CITY OF DANIA BEACH CITY COMMISSION MEETING
DECEMBER 8, 2020 at 7:00 PM
VIRTUAL MEETING AND PUBLIC COMMENTS PROCEDURE

The City of Dania Beach City Commission will be conducting a "Virtual" City Commission meeting utilizing communications media technology ("CMT"), in accordance with Emergency Ordinance No. 2020-017 and City Manager's Order Adopting Rules for Use of Communications Media Technology for Public Meetings During Health Emergency, related to conducting public meetings while under the public health emergency related to the spread of Novel Coronavirus Disease 2019 (COVID-19). City Hall building is closed to the public.

Please visit www.daniabeachfl.gov/virtualmeetings for detailed instructions on how to attend and participate in virtual City Commission meetings. Public access to this virtual meeting can be accomplished as follows:

- Watch Meeting on the City's YouTube Channel at www.daniabeachfl.gov/2654/Watch-DaniaTV
- Watch Meeting on Comcast Cable Channel 78
- Join the Meeting virtually or by telephone using RingCentral Meetings

Any member of the public wishing to comment publicly on any matter including on specific agenda items can do so by one of the following options:

Before 2:00 p.m. on the day of the meeting, comments can be submitted into the record by using the following link:

https://daniabeach.seamlessdocs.com/f/PublicSpeakingFormCityCommission *(all public comments submitted will be provided to the City Commission prior to the meeting and will be attached to the minutes of this meeting and become part of the official record)*

Participating in a public meeting using the video conference platform:

- Virtual attendance: download and install RingCentral Meetings and join using the meeting ID; to be recognized during public comment, click "Raise my hand" in the software
- Telephone attendee: dial meeting phone number and enter meeting ID; to be recognized during public comment, dial *9 to raise your hand

For more information about this City Commission meeting or submitting a public comment at the meeting, please contact:

Thomas Schneider, City Clerk
City of Dania Beach
100 W Dania Beach Boulevard
Dania Beach, FL 33004
954-924-6800 | tschneider@daniabeachfl.gov

NOTICE: This meeting is open to the public. In accordance with the Americans with Disabilities Act of 1990, all persons who are disabled and who need special accommodations to participate in this meeting because of that disability should contact the Office of the City Clerk, 954-924-6800 ext. 3624, no later than two days prior to such proceeding. Anyone wishing to appeal any decision made by the Dania Beach City Commission with respect to any matter considered at such meeting or hearing will need a record of the proceedings and, for such purpose, may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. Agenda items may be viewed online at www.daniabeachfl.gov.

Instructions for Participating and Viewing
City of Dania Beach Virtual City Commission Meeting
December 8, 2020 at 7:00 PM

Through the City's Website:

Please click the link below:
www.daniabeachfl.gov/2654/Watch-DaniaTV

Through Comcast Channel 78:

If you are a Comcast/Xfinity customer, please go to Channel 78 to view the meeting.

Before 2:00 p.m. on the day of the meeting, submit Public Comments by clicking this link:

https://daniabeach.seamlessdocs.com/f/PublicSpeakingFormCityCommission *(all public comments submitted will be provided to the City Commission prior to the meeting and will be attached to the minutes of this meeting and become part of the official record).*

Options for Viewing and Participating in the Meeting Using RingCentral Meetings software

Visit https://www.ringcentral.com/apps/rc-meetings to download and install the software on your device

Use this meeting link to join as an attendee:
https://meetings.ringcentral.com/j/1495078118

Using your telephone – for higher quality, dial a number based on your current US location:

+1(312)2630281
+1(470)8692200 (US East)
+1(646)3573664
+1(773)2319226 (US North)
+1(213)2505700
+1(346)9804201
+1(469)4450100 (US South)
+1(623)4049000 (US West)
+1(650)2424929
+1(720)9027700 (US Central)

Enter the meeting ID: 149-507-8118

To raise hand and be acknowledged to speak:

1. Users who call in can dial *9 to raise their hand
2. If using the meeting software, to raise hand click or tap "Participants", then choose the option to raise hand.
3. Once you have been selected to speak, you may be prompted to unmute your device or this will be done for you.

City of Dania Beach, Florida Virtual City Commission Meetings
Quasi-Judicial Proceedings

Any member of the public wishing to make verbal comment during a meeting must pre-register to do so with the City Clerk's office using the form found on the City's website. This pre-registration applies to the public, and extends to the applicant and applicant's team. Once the registration has been processed, the registrant will receive instructions for participating in the meeting. Members of the public who attend the meeting by telephone will have their line muted at all times, except when acknowledged by the Mayor to speak on a particular agenda item, and only one individual will be permitted to speak at a time. **If either the applicant or a member of the public seeks to introduce documents into the record, that must be done at least five (5) days prior to the virtual public meeting, so that the City can upload the information. The City Clerk shall provide the Mayor and City Commission with the submittals prior to the hearing. All documents should be sent to the following email addresses: tschneider@daniabeachfl.gov and clajoie@daniabeachfl.gov. In the "Subject" line of the email please address the email as "documents to be included for public hearing" and list the public hearing applicant name and property address.**

On the date and at the time of the Virtual meeting, the City Attorney shall read the title of the quasi-judicial public hearing item when the Agenda item is ready to be presented. The City Attorney shall ask the City Commission to disclose any prior "ex parte" communications with any party that occurred prior to the meeting. Thereafter, the City Attorney will virtually swear in all staff persons speaking about an application as well as the applicant, applicant's team, and any persons in the public who intend to appear by telephone, email, or "live" during the virtual feed of the video presentation during the virtual City Commission meeting. The City Attorney will ask staff and applicant (including applicant's team) to raise their right hands to be sworn in. The City Attorney will then administer an oath. The City Attorney will ask each person to confirm audibly for the record that each speaker took the oath (all persons will identify themselves by name).

Thereafter, City staff will provide a presentation of the staff report and the Department recommendations, if any. Any power point presentations or documents shown or produced during the hearing shall be treated as evidence which the City Commission may consider in determining whether or not to approve the application. The applicant will then be provided the opportunity to make a presentation. Legal counsel for the applicant may make a presentation or assist with the applicant's presentation. Then members of the public, during the public hearing portion of the agenda item hearing, may speak to the application and may cross-examine witnesses (including City staff, the applicant, and applicant's team). During the Public Comments/Public Hearing portion of the meeting the City Attorney will individually swear in public speakers, who will acknowledge having taken the oath, and state their names for the record. Video of the virtual meeting will be streamed on the City's website at www.daniabeachfl.gov, the City's YouTube channel, and Dania Beach Comcast Channel 78. Additionally, a dedicated telephone line will be available so that any individual may listen to the meeting via telephone and may participate during the public comments portion of the hearing. If public comments were received in advance, they will be acknowledged by the City Clerk by mention of the names of those who submitted comments.

Once the public hearing is closed the Mayor and City Commission shall deliberate on the public hearing quasi-judicial item. A virtual quorum shall be required to take action on the application. Roll call vote of the City Commission shall be required.

AGENDA
DANIA BEACH CITY COMMISSION
VIRTUAL REGULAR MEETING
TUESDAY, DECEMBER 8, 2020 - 7:00 PM

ANY PERSON WHO DECIDES TO APPEAL ANY DECISION MADE WITH REGARD TO ANY MATTER CONSIDERED AT THIS MEETING OR HEARING WILL NEED A RECORD OF THE PROCEEDING, AND FOR SUCH PURPOSE MAY NEED TO ENSURE THAT A VERBATIM RECORD OF THE PROCEEDING IS MADE WHICH RECORD INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED.

LOBBYIST REGISTRATION IS REQUIRED. PRIOR TO ENGAGING IN ANY LOBBYING ACTIVITIES, WHETHER OR NOT COMPENSATION IS PAID OR RECEIVED IN CONNECTION WITH THOSE ACTIVITIES, EACH LOBBYIST SHALL FILE WITH THE CITY CLERK AN ANNUAL REGISTRATION STATEMENT AND PAY AN ANNUAL TWO HUNDRED FIFTY DOLLARS ($250.00) REGISTRATION FEE FOR EACH PRINCIPAL OR EMPLOYER. REGISTRATION FORMS ARE AVAILABLE ON THE CITY WEBSITE: WWW.DANIABEACHFL.GOV. (ORDINANCE #2012-019; AMENDED BY ORDINANCE #2019-019)

IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT, PERSONS NEEDING ASSISTANCE TO PARTICIPATE IN ANY OF THESE PROCEEDINGS SHOULD CONTACT THE CITY CLERK'S OFFICE, 100 W. DANIA BEACH BOULEVARD, DANIA BEACH, FL 33004, (954) 924-6800 EXTENSION 3624, AT LEAST 48 HOURS PRIOR TO THE MEETING.

DECORUM POLICY FOR MEETINGS OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

INDIVIDUALS WHO WISH TO MAKE ANY "CITIZEN'S COMMENTS" UNDER THAT PORTION OF THE CITY COMMISSION AGENDA, OR WHO OTHERWISE WANT TO ADDRESS THE CITY COMMISSION, MUST FIRST BE REGISTERED WITH THE CITY CLERK (FORMS ARE AVAILABLE OUTSIDE OF THE CITY COMMISSION CHAMBERS AND MUST BE GIVEN TO THE CLERK BEFORE THE MEETING). OTHERS WHO WANT TO ADDRESS THE COMMISSION ON ANY MATTERS MUST FIRST BE RECOGNIZED BY THE MAYOR. ALL SUCH PERSONS MUST USE THE PODIUM IN THE COMMISSION CHAMBER. NO MORE THAN ONE PERSON AT A TIME MAY ADDRESS THE COMMISSION FROM THE PODIUM. COMMENTS ARE ONLY TO BE MADE TO THE CITY COMMISSION AND ARE NOT TO BE DIRECTED TO THE AUDIENCE OR CITY STAFF.

NO INDIVIDUAL SHALL MAKE ANY SLANDEROUS OR UNDULY REPETITIVE REMARKS, OR ENGAGE IN ANY OTHER FORM OF BEHAVIOR THAT DISRUPTS OR IMPEDES THE ORDERLY CONDUCT OF THE MEETING, AS DETERMINED BY THE MAYOR. NO INDIVIDUAL MAY SPEAK DIRECTLY TO OR ADDRESS THE MAYOR, CITY COMMISSIONER OR CITY STAFF: COMMENTS ARE TO BE ONLY DIRECTED TO THE COMMISSION AS A WHOLE. NO CLAPPING, APPLAUDING, HECKLING OR VERBAL OUTBURSTS IN SUPPORT OF OR OPPOSITION TO A SPEAKER OR HIS OR HER REMARKS SHALL BE PERMITTED. NO SIGNS OR PLACARDS SHALL BE PERMITTED IN THE COMMISSION CHAMBER.

IF ANY PERSON'S CONDUCT AS DETERMINED BY THE MAYOR IS FOUND TO BE DISRUPTIVE OR INTERFERES WITH THE ORDERLY CONDUCT OF THE MEETING, THE PERSON MAY BE ASKED BY THE MAYOR TO LEAVE THE COMMISSION CHAMBERS; IF THE PERSON DOES NOT LEAVE AND THE CONDUCT PERSISTS, THE CITY POLICE DEPARTMENT WILL BE REQUESTED TO ESCORT THE INDIVIDUAL FROM THE CITY COMMISSION CHAMBERS.

ALL CELLULAR TELEPHONES ARE TO BE SILENCED DURING THE MEETING. ALL PERSONS EXITING THE COMMISSION CHAMBER SHALL DO SO QUIETLY. (RESOLUTION #2020-032)

1. CALL TO ORDER/ROLL CALL

2. MOMENT OF SILENCE AND PLEDGE OF ALLEGIANCE

3. PRESENTATIONS AND SPECIAL EVENT APPROVALS

1. Dania Beach Redevelopment Plan status and update by Ken Krasnow, Colliers International South Florida

2. Presentation regarding the Public Art Master Plan and survey by Leslie Fordham, Public Art & Design Administrator, Broward County Cultural Division

3. 1000 Mermaids - Artificial Reef Project – Options Presentation by Stacy Brown

4. Covid update by Commissioner Odman

5. Presentation of the proposed new Stormwater Projects by Fernando J. Rodriguez, Public Services Director and Dincer A. Ozaydin, Deputy Director/City Engineer

6. Special Event request from Dania Live 1748 II, LLC to host a "Gay Men's Chorus of South Florida Holiday Show" on November 28-29, 2020 at Dania Pointe, 81 SW 18th Avenue, from 7:00 p.m. - 10:00 p.m. *(Community Development)*

7. Special Event request from Dania Live 1748 II, LLC to host a "Drive in Holiday Concert" on December 5-6, 2020 at Dania Pointe, 81 SW 18th Avenue, with two shows per day from 1:00 p.m. - 2:30 p.m. and from 7:00 p.m. - 9:00 p.m. *(Community Development)*

8. Special Event request from Dania Live 1748 II, LLC to host "Cars at the Pointe" events on the third Sunday of every month for the next 11 months beginning on December 20, 2020 and ending on October 17, 2021 at Dania Pointe, 81 SW 18th Avenue, from 10:00 a.m. - 2:00 p.m. *(Community Development)*

4. PROCLAMATIONS

5. CITIZEN COMMENTS

Addressing the Commission: Comments by Dania Beach citizens, or other interested parties that are not part of the regular agenda, may be made during each Commission meeting during the period set aside for "citizen comments." A thirty (30) minute "citizen comments" period shall be designated on the agenda for citizens and interested persons to speak on matters not scheduled on that day's agenda. Each speaker shall be limited to 3 minutes for his or her comments. Persons desiring to speak during the citizen comment period shall inform the City Clerk prior to the beginning of the meeting of their intention to speak. If more than 10 speakers express a desire to speak, the Commission shall determine, on a meeting by meeting basis, whether to (a) extend the time allotted for citizen comments to accommodate all speakers, or (b) whether to limit the number of speakers or amount of time per speaker. A speaker's time shall not be transferable to another speaker.

6. PUBLIC SAFETY REPORTS

7. CONSENT AGENDA

1. Minutes:

   Approve Minutes of October 27, 2020 Virtual City Commission Meeting
   Approve Minutes of November 10, 2020 Virtual City Commission Meeting
   Approve Minutes of November 16, 2020 Organization Meeting

2. Travel Requests:

   Request from City Manager Ana M. Garcia to attend the Florida City County Manager's Association (FCCMA) 2021 Winter Institute in Cocoa Beach, Florida on February 3-5, 2021 (Estimated cost $813.50)

3. RESOLUTION NO. 2020-146

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, RATIFYING AN AGREEMENT AND FUNDS THAT EXCEED THE CITY ANNUAL VENDOR THRESHOLD POLICY OF TWENTY FIVE THOUSAND ($25,000.00) FOR EMERGENCY PUMPING SERVICES PROVIDED BY HINTERLAND GROUP, INC. OBTAINED UNDER EMERGENCY CONDITIONS BY THE CITY MANAGER AS A RESULT OF TROPICAL STORM ETA; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services)*

4. RESOLUTION NO. 2020-147

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE EXPENDITURE OF FUNDS FOR SERVICES TO BE PROVIDED BY AMC SURVEILLANCE CAMERA & ELECTRONICS, INC., AND AUTHORIZING THE CITY TO EXCEED THE ANNUAL VENDOR THRESHOLD TOTAL AMOUNT OF TWENTY-FIVE THOUSAND DOLLARS ($25,000.00) TO PROCURE MAINTENANCE OF THE CITY'S SURVEILLANCE CAMERA SYSTEM; PROCEEDING WITHOUT COMPETITIVE BIDDING AND AUTHORIZING SUCH PURCHASES, PROVIDED THAT THEY ARE MADE WITHIN THE RESPECTIVE DEPARTMENTS' APPROVED ANNUAL BUDGET APPROPRIATIONS; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Finance)*

5. RESOLUTION NO. 2020-148

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE EXPENDITURE OF FUNDS FOR SERVICES TO BE PROVIDED BY BIS DIGITAL, INC.; AUTHORIZING THE CITY TO EXCEED THE CITY MANAGER'S ANNUAL VENDOR THRESHOLD OF TWENTY-FIVE THOUSAND DOLLARS ($25,000.00) TO PROCURE AUDIO, VIDEO AND BROADCASTING SERVICES; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Finance)*

6. RESOLUTION NO. 2020-149

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING AN APPROPRIATION OF FUNDS RELATING TO THE REMOVAL AND RELOCATION OF TWO WELCOME SIGNS FOR AN ESTIMATED AMOUNT OF TWENTY-EIGHT THOUSAND NINETY-FIVE DOLLARS ($28,095.00); PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(City Manager)*

7. ORDINANCE NO. 2021-001

   AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA

BEACH, FLORIDA, REPEALING ARTICLE X ENTITLED "SMOKING RESTRICTIONS IN PUBLIC PARKS" OF CHAPTER 17 OF THE CITY CODE OF ORDINANCES ("OFFENSES; MISCELLANEOUS"), AND REPEALING CODE SECTION 17-30, ENTITLED, "SMOKING PROHIBITED IN CERTAIN AREAS OF PUBLIC PARKS"; PROVIDING FOR SEVERABILITY; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. (**FIRST READING)** *(City Attorney)*

8. ORDINANCE NO. 2021-002

   AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, REPEALING SECTION 17-129, ENTITLED "ON-SITE SHOPPING CART RETENSION SYSTEM - REQUIRED," OF ARTICLE IX, ALSO ENTITLED "ON-SITE SHOPPING CART RETENSION SYSTEM- REQUIRED," OF CHAPTER 17, WHICH CHAPTER IS ENTITLED "OFFENSES-MISCELLANEOUS" OF THE CITY CODE OF ORDINANCES, AS THE REGULATION OF SHOPPING CARTS HAS BEEN PREEMPTED BY THE STATE; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. **(FIRST READING)** *(City Attorney)*

8. BIDS AND REQUESTS FOR PROPOSALS

1. RESOLUTION NO. 2020-150

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AWARDING DISASTER DEBRIS MONITORING CONTRACTS IN THE PRIMARY, SECONDARY AND TERTIARY SERVICE PROVIDER CATEGORIES TO DEBRIS TECH LLC, ROSTAN SOLUTIONS LLC, AND BRENCO LLC, RESPECTIVELY; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services)*

2. RESOLUTION NO. 2020-151

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AWARDING DISASTER DEBRIS REMOVAL AND DISPOSAL CONTRACTS IN THE PRIMARY, SECONDARY AND TERTIARY SERVICE PROVIDER CATEGORIES TO BERGERON EMERGENCY SERVICES, CUSTOM TREE CARE INC. AND KDF ENTERPRISES LLC; PROVIDING ASSURANCES; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services)*

9. PUBLIC HEARINGS

1. ORDINANCE NO. 2021-003

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, CREATING ARTICLE 826 ENTITLED "OAK HAMMOCK TREE PROTECTION OVERLAY" UNDER THE CITY'S LAND DEVELOPMENT CODE (LDC) OF THE CITY OF DANIA BEACH CODE, AND APPROVING THE APPLICATION REQUEST (TX-065-20), MADE BY THE CITY OF DANIA BEACH TO CREATE A ZONING OVERLAY FOR THE GENERAL VICINITY OF THE RESIDENTIAL LOTS ON SW 36 TERRACE, SW 37 AVENUE AND SW 37 TERRACE, STRETCHING FROM STIRLING ROAD NORTH FOR APPROXIMATELY 1,280 LINEAR FEET, TO THE END OF THE STREETS, AND INCLUDES APPROXIMATELY 30 GROSS ACRES AND 74 PARCELS, IN THE CITY OF DANIA BEACH, FLORIDA, WHICH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; PROVIDING FOR AN OAK HAMMOCK TREE PROTECTION OVERLAY FOR THE AREA IDENTIFIED IN ORDER TO PROTECT THE OF THIS UNIQUE OAK HAMMOCK FOREST COMMUNITY, SUBJECT TO CERTAIN STANDARDS AND RESTRICTIONS; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE. **(FIRST READING)** *(Community Development)*

2. ORDINANCE NO. 2021-004

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AMENDING THE FUTURE LAND USE PLAN ELEMENT OF THE LOCAL COMPREHENSIVE PLAN IN RESPONSE TO A REQUEST BY CCI PROPERTIES 1, LLC (LU-061-20), TO REDESIGNATE CERTAIN PROPERTY FROM "LOW-MEDIUM (10) RESIDENTIAL" TO "IRREGULAR (50 DU/AC)", WHICH PROPERTY IS GENERALLY LOCATED AT 4695 SW 45TH TERRACE, DANIA BEACH, WHICH LEGAL DESCRIPTION IS DESCRIBED IN EXHIBIT "A", A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. **(FIRST READING)** *(Community Development)*

3. ORDINANCE NO. 2021-005

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE APPLICATION REQUEST (RZ-062-20), MADE BY 2900 SW 45TH DANIA BEACH, LLC, TO REZONE PROPERTY GENERALLY LOCATED AT 4695 SW 45TH TERRACE IN THE CITY OF DANIA BEACH, FLORIDA, WHICH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; CHANGING THE CURRENT ZONING CLASSIFICATION OF THE PROPERTIES FROM RMH MOBILE HOME DISTRICT TO PLANNED RESIDENTIAL DEVELOPMENT DISTRICT (PRD-1), SUBJECT TO CERTAIN RESTRICTIONS; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE. **(FIRST READING)** *(Community Development)*

4. RESOLUTION NO. 2020-152

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE "ANDY'S LAND" PLAT (PL-60-20) SUBMITTED BY PULICE LAND SURVEYORS INC., ON BEHALF OFCCI PROPERTIES 1, LLC FORPROPERTY LOCATED AT 4695 SW 45TH TERRACE IN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A"; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Community Development)*

5. RESOLUTION NO. 2020-125

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE DEVELOPMENT DESIGN GUIDELINES (DDG) AND SITE PLAN (SP-056-20) SUBMITTED BY KIMLEY-HORN AND ASSOCIATES, ON BEHALF DANIA BEACH MARINA CORP. FOR THE PROPERTY GENERALLY LOCATED 90 N. BRYAN ROAD WITHIN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; PROVIDING FOR CONFLICTS; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE. ***(Continued from October 13, 2020)*** *(Community Development)*

6. RESOLUTION NO. 2020-126

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE PLAT NOTE AMENDMENT DELEGATION REQUEST APPLICATION (DR-072-20) SUBMITTED BY KIMLEY-HORN AND ASSOCIATES, INC. ON BEHALF OF DANIA BEACH MARINA CORP. FOR PROPERTY PLATTED UNDER THE BRYAN ROAD WAREHOUSES PLAT LOCATED AT 90 N. BRYAN ROAD IN THE CITY OF DANIA BEACH, FLORIDA, AS SUCH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT "A", A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. ***(Continued from October 13, 2020)*** *(Community Development)*

7. RESOLUTION NO. 2020-127

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE DEVELOPMENT DESIGN GUIDELINES (DDG) AND SITE PLAN (SP-024-20) SUBMITTED BY KIMLEY-HORN AND ASSOCIATES, ON BEHALF OF NV MARINA HOLDINGS LLC AND RJ MARINA HOLDINGS LLC, FOR PROPERTY GENERALLY LOCATED AT 50 AND 70 S. BRYAN ROAD WITHIN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS

RESOLUTION; PROVIDING FOR CONFLICTS; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE. ***(Continued from October 13, 2020)*** *(Community Development)*

8. RESOLUTION NO. 2020-128

   A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE PLAT ENTITLED "WAVES AT DANIA BEACH" (PL-162-19), SUBMITTED BY DENI LAND SURVEYORS, INC., ON BEHALF OF NV MARINA HOLDINGS, LLC, AND RJ MARINA HOLDINGS, LLC, ("APPLICANT") FOR THE PROPERTY LOCATED AT 50 AND 70 S. BRYAN ROAD, DANIA BEACH, FLORIDA; THE LEGAL DESCRIPTION IS CONTAINED IN EXHIBIT"A", A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; PROVIDING FOR CONFLICTS; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE. ***(Continued from October 13, 2020)*** *(Community Development)*

10. DISCUSSION AND POSSIBLE ACTION

1. Update on redevelopment of the Dania Beach Bar and Grill - Mayor James
2. Parks Master Plan - Mayor James
3. Discussion about collaboration between the City of Dania Beach and the Dania Beach CRA - Mayor James
4. Discussion of website and communications update - Commissioner Davis
5. Discussion of beach parking and safety - Commissioner Davis
6. Strategic planning - Commissioner Lewellen
7. Discussion of dais partition - Commissioner Odman
8. Status of historic Nyberg Swanson House - City Attorney
9. Review and approve City Commission meeting dates for 2021 - City Clerk

11. COMMISSION COMMENTS

1. Commissioner Davis
2. Commissioner Lewellen
3. Commissioner Odman
4. Vice-Mayor Salvino

5. Mayor James

12. APPOINTMENTS

1. Airport Advisory Board
   Mayor James - 2 appointments
   Vice-Mayor Salvino - 2 appointments
   Commissioner Davis - 2 appointments
   Commissioner Lewellen - 2 appointments
   Commissioner Odman - 2 appointments

2. Creative Arts Council Advisory Board
   Mayor James - 1 appointment
   Vice-Mayor Salvino - 1 appointment
   Commissioner Davis - 1 appointment

3. Education Advisory Board
   Mayor James - 1 appointment
   Vice-Mayor Salvino - 1 appointment
   Commissioner Davis - 1 appointment

4. General Employees Pension Board
   1 Commission Appointment for a term beginning June 22, 2020 and ending June 22, 2022

5. Green Advisory Board
   Mayor James - 1 appointment
   Vice-Mayor Salvino - 1 appointment
   Commissioner Davis - 1 appointment
   Commissioner Odman - 1 appointment

6. Marine Advisory Board
   Mayor James - 2 appointments
   Vice-Mayor Salvino - 2 appointments
   Commissioner Davis - 2 appointments

7. Parks, Recreation and Community Affairs Advisory Board
   Mayor James - 2 appointments
   Vice-Mayor Salvino - 2 appointments
   Commissioner Davis - 2 appointments
   Commissioner Lewellen - 2 appointments
   Commissioner Odman - 2 appointments

8. Planning & Zoning Board

Mayor James - 1 appointment
Vice-Mayor Salvino - 1 appointment
Commissioner Davis - 1 appointment
Commissioner Lewellen - 1 appointment
Commissioner Odman - 1 appointment
2 Alternate Appointments

13. ADMINISTRATIVE REPORTS

1. City Manager

2. City Attorney

3. City Clerk - Reminders

Tuesday, January 12, 2021 - 5:30 p.m.	CRA Board Meeting
Tuesday, January 12, 2021 - 7:00 p.m.	City Commission Meeting
Tuesday, January 26, 2021 - 7:00 p.m.	City Commission Meeting

14. ADJOURNMENT

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Special Event

Continued from:

Requested Action (Identify appropriate Action or Motion)
Special Event request from Dania Live 1748 II, LLC to host a "Gay Men's Chorus of South Florida Holiday Show" on November 28-29, 2020 at Dania Pointe, 81 SW 18th Avenue, from 7:00 p.m. - 10:00 p.m.

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
special event memo - Dania Pointe Gay Mens Chorus, Gay Men's Chorus of SFL- Special Event

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa- Cruz, Assistant City Manager
Eleanor Norena, CFM Community Development Director

Candido Sosa-Cruz
Digitally signed by Candido Sosa-Cruz
DN: cn=Candido Sosa-Cruz, o=City of Dania Beach, ou=City Manager, email=csosacruz@daniabeachfl.gov, c=US
Date: 2020.12.01 15:10:12 -05'00'

Eleanor Norena
Digitally signed by Eleanor Norena
DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US
Date: 2020.12.01 13:14:29 -05'00'

RE: Special Events Application Request from Dania Pointe to host a "Gay Men's Chorus of South Florida Holiday Show" scheduled for Saturday and Sunday, November 28th & 29th, 2020

Request

A Special Event approval is being requested by Kim Butler on behalf of Dania Pointe to host a "Gay Men's Chorus of South Florida Holiday Show" on November 28th & 29th beginning at 7pm and ending at 10pm.

Background

The requested event will be held at Dania Pointe, 81 SW 18th Ave, Dania Beach, FL. in the parking lot behind the Way Pointe parking garage. Guests will park and remain in the cars during the concert, if the guest leaves the vehicle for any reason, they must wear facial covering and adhere to all social distancing guidelines. This applicant is charging $25 - $50 per vehicle for admission and attendees will be limited to only 5 persons per vehicle.

We have provided the property owner a copy of the Broward County and City Emergency orders requiring social distancing, along with CDC guidelines and have attached both documents as part of the approval item. Code Compliance Staff will ensure compliance of these orders during the event dates.

Budgetary Impact

The special events application fee for this event is $150.00. A late fee of $ 75.00 was assessed, because the application was received after the sixty (60) day cut off. Applicant will pay for necessary services if recommended below.

Recommendation

It is recommended that the City Commission approve the special events application request in whole with compliance of the conditions noted below.

Staff	Comments/ Conditions
BSO Fire: Fire Prevention	No concerns raised
Building Official	No concerns raised
City Attorney	No concerns raised
Code Enforcement	No concerns raised
Community Development	No concerns raised
Hr/ Risk Mgmt-	No concerns raised
Parks & Recreation	No concerns raised
Public Services	No concerns raised
BSO Police Dept.	No concerns raised.

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

City of Dania Beach

100 West Dania Beach Blvd., Dania Beach, FL 33004

SPECIAL EVENTS APPLICATION – EVENTS ON PRIVATE / PUBLIC PROPERTY

Please PRINT or TYPE

NOTE: ALL APPLICATIONS MUST BE COMPLETED AND SUBMITTED TO THE CITY FOR APPROVAL 60 DAYS PRIOR TO THE EVENT INCLUDING PAYMENT OF ALL APPLICATION FEES (SEE ATTACHED).

Event Name, Date, and Time: Gay Mens Chorus of South Florida Holiday Show

*Brief Description of the Event: Drive in movie

Address/Location of Event: Surface parking lot behind Way Pointe Garage

Event Coordinator: Kim Butler

Telephone #1: 954-809-5389 E-mail Address: Kbutler@daniapointe.com

Telephone #2: Fax:

Additional Contact Person for the Event: Mark Kent

Telephone #1: 954-763-2266 E-mail Address: Mkent@gmcsf.org

Telephone #2: 404-290-4734 Fax:

Organization or Sponsor of Event: Dania Live 1748 II, LLC

Address: 81 SW 18th Ave

City, State, Zip Code: Dania Beach, FL 33004

Telephone: Fax: Cell: 954-809-5389

Is this a Non-Profit Organization? ☐ Yes ☐ No Tax ID #:

Corporation Name **(As it appears in the Articles of Incorporation)**:

Dania Live 1748, II, LLC

Date of Incorporation: State of Incorporation:

Federal ID #:

Authorizing Official for the Organization: Kim Butler

Telephone #1: 954-809-5389 E-mail Address: Kbutler@daniapointe.com

Telephone #2:

Authorizing Official for the Organization: Kim Butler

Telephone #1: _____ E-mail Address: _____

Telephone #2: _____

***Property Owner:** Dania Live 1748 II, LLC

****Please Note – A letter of Consent is required from the property owner for the approval of this application.***

Is the letter attached? ☑ **Yes** ☐ **No**

Will any portion of this event take place on Public or City Property? ☐ **Yes** ☑ **No**

Will there be a charge for admission? ☑ **Yes** ☐ **No** **If yes, how much?** $25 - $50 per car

Has this event been held in the past? ☐ **Yes** ☑ **No**

If so, Indicate the city location of last event: N/A

Is the event to take place: ☐ **Indoors** ☑ **Outdoors** ☐ **Both**

Number of Expected Daily Attendants: 60 cars **(BSO or Fire Details may be required - refer to page 6)**

Please indicate the duration of the event:

DAY	DATE	START TIME	END TIME	TOTAL # OF HOURS
Saturday	11/28/2020	7pm	10pm	3
Sunday	11/29/2020	7pm	10pm	3

Anticipated Date and Time to Begin Set-Up: Saturday, 11/28/2020 3pm

Anticipated Date and Time for Completion of Break-Down: Sunday 11/29/2020 11pm

***Do you have a site plan for the event to be submitted with this application?** ☑ **Yes** ☐ **No**

****Please Note*** – A site plan indicating the following conditions must accompany the application or the application will be rejected, resulting in a significant time delay. The fire department must have easy access to the special event area. The site plan must include the following: entrances and exits, emergency vehicle access routes, parking, general vehicular drive paths, fire hydrant locations, fire department connections, street closure requests, fenced areas, grandstand, bleacher or other seating locations, tent and stage locations, cooking areas, and locations of any pyrotechnical material, fireworks, etc. In addition, the site plan must include the location of any rides (animal or mechanical), petting zoos, exhibits, DJ's, bands, performers, sanitary facilities, recreation vehicles for overnight housing, etc.

Is there a request for any road closures? ☐ **Yes** ☑ **No**

Please identify the street name(s) and/or locations for closure requests: _____

***Please Note* – These streets must also be identified on the site plan.**

***Are you requesting to fence the event area?** ☐ **Yes** ☒ **No**
Please Note – You must identify any fencing area on the site plan.

***Will Canopies (tent structure with no sides) be used for this event?** ☐ **Yes** ☒ **No**
****Please Note*** - All tent structures with canopies in excess of 400 square feet [Per NFPA 1: Table 1.12.19(a)] require building permits and inspections. All canopies must be flame retardant. A certificate of flame retardency and a sample of the canopy fabric for field testing must be submitted for product approval with this application. This information can be obtained from the canopy manufacturer or the canopy rental company. Please apply for the permit at the Building Department located at 100 W. Dania Beach Blvd. Please allow 8-10 working days for permit approvals.

***Will Tents (With Sides) be used for this event?** ☐ **Yes** ☒ **No**
****Please Note*** – All tents in excess of 200 square feet [Per NFPA 1: Table 1.12.19(a)] require building permits and inspections. All tents must be flame retardant. A certificate of flame retardancy and a sample of the tent fabric for field testing must be submitted for product approval with this application. This information can be obtained from the tent manufacturer or the tent rental company. If the tents have sides, they are treated as buildings. They must have two separate exits remotely located from each other with electrically illuminated exit signs that have a battery back-up. In addition, they must have emergency egress lighting and fire extinguishers. Provide a life safety plan for these tents indicating the location of all Exits, Exit Signs, Emergency Lighting, Aisle Spacing, Fire Extinguisher locations, etc. Permits must be obtained for all tents and electrical work. Please apply for all permits at the Building Department located at 100 W. Dania Beach Blvd. Please allow 8-10 working days for permit approvals.

***Will electricity be required for this event?**
(for lighting, sound, cooking, other power needs, etc.) ☑ **Yes** ☐ **No**

***How will this electricity be supplied?** ☒ **On-Site** ☐ **Generator** ☐ **Combination of Both**
Please Note – The use of generators, temporary wiring, temporary electrical connections, etc. require permits and inspections. Please apply for the permit(s) prior to setting up at the Building Department located at 100 W. Dania Beach Blvd. Events requiring electricity are the responsibility of the applicant and must have a master electrician on site. Please allow 8-10 working days for permit approvals. Any generator less than 5KW does not require a permit.

Will there be live entertainment at this event? ☐ **Yes** ☒ **No**

Please indicate the type (Band, DJ, Live Performers, etc.): _____

Please specify the hours of entertainment:

DAY	DATE	START TIME	END TIME	TOTAL # OF HOURS
N/A				

***Will a stage(s) be used in this event?** ☐ **Yes** ☒ **No**
*Please note Fire Extinguisher Requirement in the next question.

***Do you have adequate fire extinguishers for this event?** ☐ **Yes** ☒ **No**
****Please Note*** - Fire extinguishers must be supplied for each tent, canopy, cooking appliance and stage. They must be accessible from anywhere in the tent or on the stage without having to travel any further than 75 feet for access. Extinguishers must be easily accessible and not obscured from view. Fire extinguishers must be commercial "ABC Multi-Purpose" (minimum 5lbs.) fire extinguishers that are currently certified and tagged by a licensed company. You

need to demonstrate that this requirement will be met by making a note on the site plan indicating compliance with all of the above requirements or providing a letter to the City fire prevention bureau to that effect.

***Will there be concessions or sales of food at this event?** [ ] **Yes** [X] **No**

Please specify: _____

****Please Note*** ***STATE HEALTH INSPECTIONS FOR FOOD: Pursuant to Florida law (Chapter 509, Florida Statutes) event sponsors are required to contact the State Health Inspector no less than 3 days prior to the event. Advance notification of 7 to 10 days is advisable. Please send a fax with your event plans and contact information to Fax Number (954) 956-5699. The Inspector's office will contact you to discuss food vendors and amounts and types of food you plan to make available to the public, whether it is being given away or sold.***

An original Certificate of Liability Insurance and Workers' Compensation Certificate is required from all vendors. You must ensure that the Liability Certificate is for this specific event, has the proper dates, and names the City of Dania Beach as an Additional Insured. No event will be approved without this insurance.

***Will any type of cooking appliances be used by either the Sponsor of the Event or any of its vendors? [ ] Yes [X] No**

***If so, indicate the type of appliance(s) to be used and the number of each appliance to be used:**

- [X] N/A
- [ ] Electric Grill(s); #____
- [ ] Gas Grill(s); #____
- [ ] Charcoal Grill(s); #____
- [ ] Smoker Grills(s); #____
- [ ] Grease Fryer(s); #____
- [ ] Oven(s); #____
- [ ] Electric Range Burner(s); #____
- [ ] Gas Range Burner(s); #____

****Please Note*** – Grease Fryers are not permitted indoors unless they are protected with an approved Hood and a UL300 Compliant Wet Chemical Automatic Fire Suppression System in accordance with NFPA 96.

***Does each cooking appliance have its own dedicated Fire Extinguisher?** [ ] **Yes** [ ] **No** N/A
****Please Note*** - Each cooking appliance must have its own dedicated fire extinguisher. Class K fire extinguishers are required for fryers. You need to demonstrate that this requirement will be met by making a note on the site plan indicating compliance with all of the above requirements or providing a letter to the fire prevention bureau.

***Does each cooking area have the proper clearances from all other event areas?** [ ] **Yes** [ ] **No** N/A
****Please Note*** - Cooking areas can be located no closer than 30 feet from any tent or canopy structure, event rides, stages, grandstands or bleachers, etc. Ensure that this measurement is demonstrated on the site plan.

***Will there be sales of alcohol at this event?** [ ] **Yes** [X] **No**
****Please Note*** – An original certificate of liquor liability insurance naming the City of Dania Beach as additional insured and a 1/2/3 Day Special Sales License is required to be submitted with this application. The license must be obtained from the State of Florida Department of Business and Professional Regulation.

If Yes, Please Specify Types of Alcohol to be Sold: [X] **N/A** [ ] **Beer** [ ] **Wine** [ ] **Liquor** [ ] **Mixed Drinks** [ ] **Other:** _____

If alcohol is being served, please indicate how the beverages will be served: [X] **N/A** [ ] **Draft Truck** [ ] **Cold Plate** [ ] **Mini-Bar** [ ] **Beer Tub** [ ] **Table Service**

Other: _____

Will there be alcohol given away at this event? ☐ **Yes** ☒ **No**

Please Specify Types of Alcohol to be given away: ☒ **N/A** ☐ **Beer** ☐ **Wine** ☐ **Liquor** ☐ **Mixed Drinks** ☐ **Other:** _____

Will there be retail sales at this event? ☐ **Yes** ☒ **No**

Please Specify: _____

***Will there be any carnival rides, mechanical or vehicular rides, or animal rides at this event?** ☐ **Yes** ☒ **No**

*If yes, please describe: _____

What is the name of the vendor or vendors providing the rides? ☒ **N/A**

_____

Please Note - If carnival rides are to be present, the rides must be inspected by a state inspector, city electrical inspector, and fire inspector 48 hours prior to the rides opening.

Are you providing to us a copy of the ride vendor's Certificate of Liability and Workers' Compensation Insurance with this application? ☐ **Yes** ☐ **No** N/A

Please Note – An original Certificate of Liability and Workers' Compensation Insurance is required for any and all rides. Ensure that the Certificate is for this specific event, has the proper dates, and names the City of Dania Beach as an Additional Insured. No event will be approved without this insurance.

***Will recreational vehicles be used for temporary overnight housing?** ☐ **Yes** ☒ **No**

Please Note – Indicate the locations of these on the site plan.

***Will there be any use of pyrotechnics or fireworks displays at this event?** ☐ **Yes** ☒ **No**

Please Note - Pyrotechnics fireworks displays require special applications, permits and inspections as well as an original Certificate of Liability and Workers' Compensation Insurance. In addition, a Fire Inspector will be required to be present during set-up and displays. This expense will be passed on to the event. (BSO or Fire Details may be required - refer to page 6)

***Will there be use of any Grandstands or Bleachers for seating at this event?** ☐ **Yes** ☒ **No**

Please Note - Bleachers and Grandstands may have to meet special safety code requirements. Locations must be indicated on the site plan. Plumbing permit is required for portable toilets.

***Are portable, ADA compliant sanitary facilities being provided for this event?** ☐ **Yes** ☒ **No**

If so, How many? _____ ☒ N/A Perm. facilities are available on site.

Please Note – Provide the locations of all sanitary facilities on the site plan.

***Is there a request for any temporary signage for this event?** ☐ **Yes** ☒ **No**

Please Note **– Any questions regarding temporary signage should be directed to City Code Compliance, (954)924-6810.**

Are there any services being requested from the City of Dania Beach? ☐ **Yes** ☒ **No**

If yes, please explain: _____

Please list any other conditions, terms or relevant information related to this event that may be of interest to the City:

BSO DETAIL REQUIREMENT
Based upon anticipated attendance, site or building size, site location, and ability to assure public safety requirements, a Broward Sheriff's Office Detail may be required.

FIRE WATCH REQUIREMENT
A Fire-Watch may be imposed depending on the type of event, number of persons present and hazards involved. The number of personnel and apparatus required may vary depending on the type of event and hazards involved. Below are the current rates charged for the presence of a fire watch detail, fire inspector or both:

> Off-Duty detail assignment services performed by Dania Beach Fire Rescue Personnel will be paid at their current overtime rate of pay with benefits (3 Hour Minimum). In addition, a City administrative fee of 10% will also be charged based on the total cost of personnel and apparatus. Personnel costs are currently estimated to be $84.42 per hour, per person (3 hour minimum).
>
> The cost of apparatus is as follows:
> Rescue Truck - $32.00 per hour
> Engine (1500 gpm) - $71.00 per hour
> Ladder (1500 gpm) - $80.00 per hour

The City of Dania Beach requires payment 14 days in advance for the detail services and fees are to be made payable to The City of Dania Beach by means of *cash advance or a cashier's check*. Fees are based on individual employee's overtime rates which vary from person to person. The amount estimated is based on the highest overtime rate currently payable in addition to fees for FICA, Medicare, Worker's Compensation and Administrative fees. In the event that the entire estimated amount is not required for services, the City will refund the money, less the expenses incurred for the service. Should the amount of time required for the fire watch detail exceed that agreed upon before the event, the Event sponsor will be required to pay for any overage based on the actual cost for the Fire Watch. The Event sponsor will be responsible to pay the actual service price incurred.

The information I have provided on this application is true and complete to the best of my knowledge. I understand that approval of this event is contingent upon review and approval of all City Disciplines, the City Attorney's Office and the City Commission.

Kim Butler
Signature of Applicant

Marketing Director
Title

KIM BUTLER
Print name of Applicant

11/16/2020
Date

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me on November 16, **200**20.

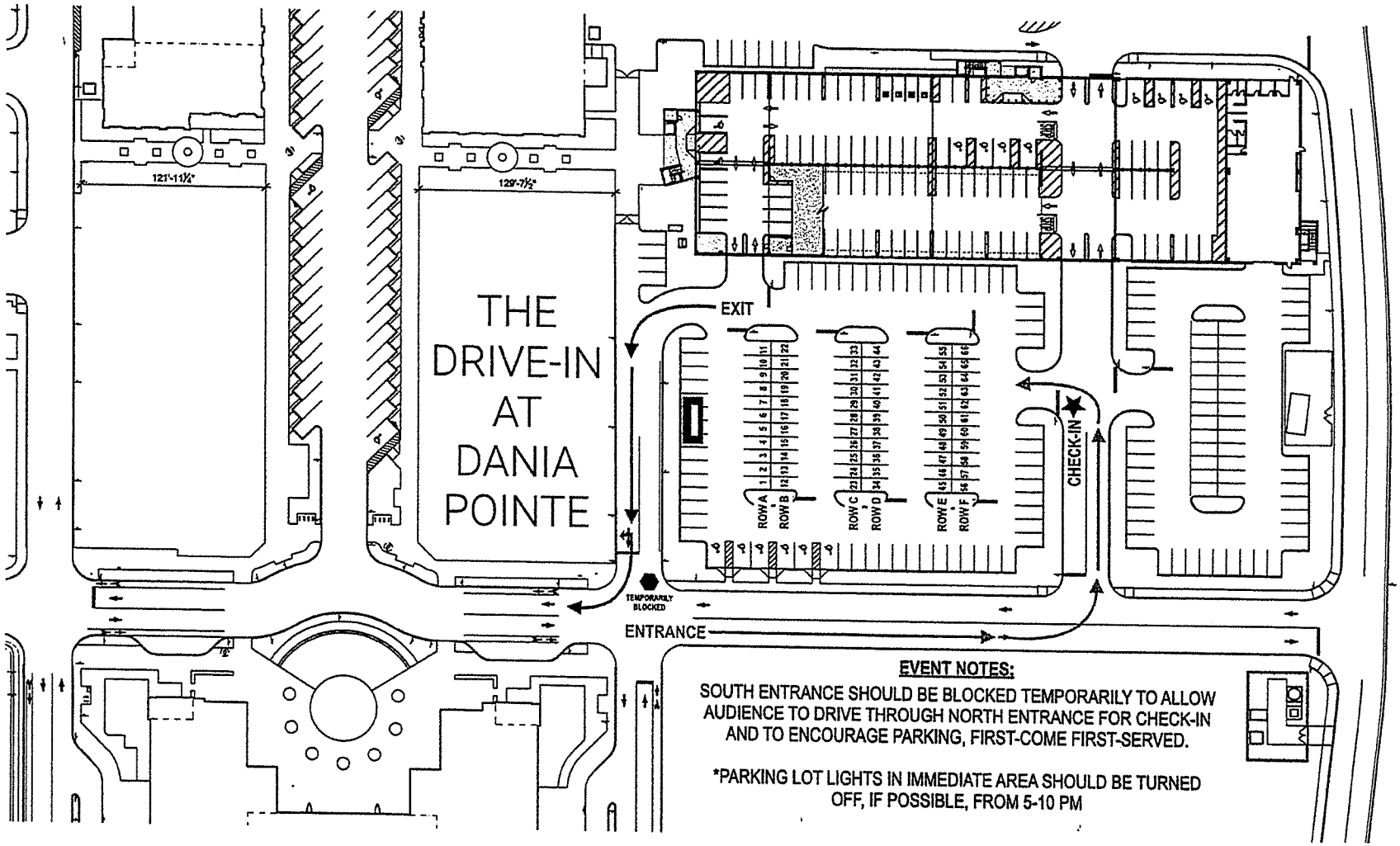
by Kim Butler, **who is personally known to me, or, if not, such person produced the following form of identification:** Florida DL.

MARY LEE MATTIS
MY COMMISSION # GG 064648
EXPIRES: March 6, 2021
Bonded Thru Budget Notary Services

NOTARY PUBLIC Mary Lee Mattis

My Commission expires: March 6, 2021

My Commission number: GG 064648



EVENT NOTES:

SOUTH ENTRANCE SHOULD BE BLOCKED TEMPORARILY TO ALLOW AUDIENCE TO DRIVE THROUGH NORTH ENTRANCE FOR CHECK-IN AND TO ENCOURAGE PARKING, FIRST-COME FIRST-SERVED.

*PARKING LOT LIGHTS IN IMMEDIATE AREA SHOULD BE TURNED OFF, IF POSSIBLE, FROM 5-10 PM

SP-31
Partial Site Plan

DANIA POINTE DANIA BEACH, FL

Scale: 1" = 30'

KIMCO REALTY · MASTER DEVELOPMENT · SREA SALZMAN Real Estate Advisors

7100 East Pleasant Valley Road, Suite 320
Cleveland, Ohio 44131
O 216.520.1500 F 520.1587
mcparch@aol.com

DANIA POINTE

DINE • SHOP • PLAY • LIVE • WORK • STAY

To: Shanesa Mykoo

From: Kim Butler, Dania Pointe

Date: November 16, 2020

Re: Gay Men's Chorus of South Florida Drive In Concert

This is to confirm landlord permission to hold the GMCSF Holiday Movie at Dania Pointe on Saturday and Sunday, November 28 & 29, 2020.

Dania Pointe is partnering with the GMCSF to host this event and hereby authorizes use of its property to hold the event.

This event is a live concert, drive in event. Attendees will be required to adhere to all COVID-19 safety practices, with a limit of 5 persons (children and adults) per vehicle. Wearing of masks and social distancing will be mandatory at any time any occupant leaves their vehicle.

Attendees will be expected to remain in their vehicles for the concert.

Thank you.

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Special Event

Continued from:

Requested Action (Identify appropriate Action or Motion)
Special Event request from Dania Live 1748 II, LLC to host a "Drive in Holiday Concert" on December 5-6, 2020 at Dania Pointe, 81 SW 18th Avenue, with two shows per day from 1:00 p.m. - 2:30 p.m. and from 7:00 p.m. - 9:00 p.m.

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
special event memo - Dania Pointe Holiday Show, Holiday Drive in Concert - Special Event

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa- Cruz, Assistant City Manager
Eleanor Norena, CFM Community Development Director

Candido Sosa-Cruz
Digitally signed by Candido Sosa-Cruz
DN: cn=Candido Sosa-Cruz, o=City of Dania Beach, ou=City Manager, email=csosacruz@daniabeachfl.gov, c=US
Date: 2020.12.01 15:09:02 -05'00'

Eleanor Norena
Digitally signed by Eleanor Norena
DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeach fl.gov, c=US
Date: 2020.12.01 15:25:00 -05'00'

RE: Special Events Application Request from Dania Pointe to host a "Drive in Holiday Concert" scheduled for Saturday and Sunday, December 5th & 6th, 2020

Request

A Special Event approval is being requested by Kim Butler on behalf of Dania Pointe to host a "Drive in Holiday Concert" on December 5th & 6th, with two shows per day the first show beginning at 1pm and ending at 2:30pm and the second show beginning at 7pm and ending at 9pm.

Background

The requested event will be held at Dania Pointe, 81 SW 18th Ave, Dania Beach, FL. in the parking lot behind the Way Pointe parking garage. Guests will park and remain in the cars during the concert, if the guest leaves the vehicle for any reason they must wear facial covering and adhere to all social distancing guidelines. This applicant is charging $10 - $50 per vehicle for admission and attendees will be limited to only 5 persons per vehicle.

We have provided the property owner a copy of the Broward County and City Emergency orders requiring social distancing at all times along with CDC guidelines and have attached both documents as part of the approval item. Code Compliance Staff will ensure compliance of these orders during the event dates.

Budgetary Impact

The special events application fee for this event is $150.00. A late fee of $ 75.00 was assessed, because the application was received after the sixty (60) day cut off. Applicant will pay for necessary services if recommended below.

Recommendation

It is recommended that the City Commission approve the special events application request in whole with compliance of the conditions noted below.

Staff	Comments/ Conditions
BSO Fire: Fire Prevention	No concerns raised
Building Official	No concerns raised
City Attorney	No concerns raised
Code Enforcement	No concerns raised
Community Development	No concerns raised
Hr/ Risk Mgmt-	No concerns raised
Parks & recreation-	No concerns raised
Public Services	No concerns raised
BSO Police Dept.	No concerns raised.

City of Dania Beach

100 West Dania Beach Blvd., Dania Beach, FL 33004

SPECIAL EVENTS APPLICATION – EVENTS ON PRIVATE / PUBLIC PROPERTY

Please PRINT or TYPE

NOTE: ALL APPLICATIONS MUST BE COMPLETED AND SUBMITTED TO THE CITY FOR APPROVAL 60 DAYS PRIOR TO THE EVENT INCLUDING PAYMENT OF ALL APPLICATION FEES (SEE ATTACHED).

Event Name, Date, and Time: Holiday Drive In Concert

*Brief Description of the Event: Drive In — Live performance of Prophecy, a Trans Siberian Orchestra Band and children's holiday show, Lions + Bears on Holiday.

Address/Location of Event: Surface parking lot behind Way Pointe Garage

Event Coordinator: Kim Butler

Telephone #1: 954-809-5389 E-mail Address: Kbutler@daniapointe.com

Telephone #2: _____ Fax: _____

Additional Contact Person for the Event: _____

Telephone #1: _____ E-mail Address: _____

Telephone #2: _____ Fax: _____

Organization or Sponsor of Event: Dania Live, 1748 II, LLC

Address: 81 SW 18th Ave. Dania Beach, FL 33004

City, State, Zip Code: _____

Telephone: 954-809-5389 Fax: _____ Cell: _____

Is this a Non-Profit Organization? [ ] Yes [X] No Tax ID #: _____

Corporation Name **(As it appears in the Articles of Incorporation)**:

_____

Date of Incorporation: _____ State of Incorporation: _____

Federal ID #: _____

Authorizing Official for the Organization: Kim Butler

Telephone #1: 954-809-5389 E-mail Address: Kbutler@daniapointe.com

Telephone #2: _____

Authorizing Official for the Organization: _____

Telephone #1: _____ E-mail Address: _____

Telephone #2: _____

***Property Owner:** Dania Live 1740 II, LLC

****Please Note – A letter of Consent is required from the property owner for the approval of this application.***

Is the letter attached? ☑ **Yes** ☐ **No**

Will any portion of this event take place on Public or City Property? ☐ **Yes** ☑ **No**

Will there be a charge for admission? ☑ **Yes** ☐ **No** **If yes, how much?** $15 - $50

Has this event been held in the past? ☐ **Yes** ☑ **No**

If so, Indicate the city location of last event: _____

Is the event to take place: ☐ **Indoors** ☑ **Outdoors** ☐ **Both**

Number of Expected Daily Attendants: 50 cars per performance **(BSO or Fire Details may be required - refer to page 6)**

Please indicate the duration of the event:

DAY	DATE	START TIME	END TIME	TOTAL # OF HOURS
Saturday	Dec 5	1pm	2:30pm	1.5
Saturday	Dec 5	7pm	9:3pm	2 hrs
Sunday	Dec 6	1pm	2:30pm	1.5
Sunday	Dec 6	7pm	9pm	2 hrs

Anticipated Date and Time to Begin Set-Up: Saturday, Dec 5 6am

Anticipated Date and Time for Completion of Break-Down: Monday, Dec 7 12 noon

***Do you have a site plan for the event to be submitted with this application?** ☑ **Yes** ☐ **No**

****Please Note*** – A site plan indicating the following conditions must accompany the application or the application will be rejected, resulting in a significant time delay. The fire department must have easy access to the special event area. The site plan must include the following: entrances and exits, emergency vehicle access routes, parking, general vehicular drive paths, fire hydrant locations, fire department connections, street closure requests, fenced areas, grandstand, bleacher or other seating locations, tent and stage locations, cooking areas, and locations of any pyrotechnical material, fireworks, etc. In addition, the site plan must include the location of any rides (animal or mechanical), petting zoos, exhibits, DJ's, bands, performers, sanitary facilities, recreation vehicles for overnight housing, etc.

Is there a request for any road closures? ☐ **Yes** ☑ **No**

Please identify the street name(s) and/or locations for closure requests: _____

Please Note *– These streets must also be identified on the site plan.*

***Are you requesting to fence the event area?** ☐ **Yes** ☑ **No**
Please Note – You must identify any fencing area on the site plan.

***Will Canopies (tent structure with no sides) be used for this event?** ☐ **Yes** ☑ **No**
****Please Note*** **-** All tent structures with canopies in excess of 400 square feet [Per NFPA 1: Table 1.12.19(a)] require building permits and inspections. All canopies must be flame retardant. A certificate of flame retardency and a sample of the canopy fabric for field testing must be submitted for product approval with this application. This information can be obtained from the canopy manufacturer or the canopy rental company. Please apply for the permit at the Building Department located at 100 W. Dania Beach Blvd. Please allow 8-10 working days for permit approvals.

***Will Tents (With Sides) be used for this event?** ☐ **Yes** ☑ **No**
****Please Note*** – All tents in excess of 200 square feet [Per NFPA 1: Table 1.12.19(a)] require building permits and inspections. All tents must be flame retardant. A certificate of flame retardancy and a sample of the tent fabric for field testing must be submitted for product approval with this application. This information can be obtained from the tent manufacturer or the tent rental company. If the tents have sides, they are treated as buildings. They must have two separate exits remotely located from each other with electrically illuminated exit signs that have a battery back-up. In addition, they must have emergency egress lighting and fire extinguishers. Provide a life safety plan for these tents indicating the location of all Exits, Exit Signs, Emergency Lighting, Aisle Spacing, Fire Extinguisher locations, etc. Permits must be obtained for all tents and electrical work. Please apply for all permits at the Building Department located at 100 W. Dania Beach Blvd. Please allow 8-10 working days for permit approvals.

***Will electricity be required for this event?**
(for lighting, sound, cooking, other power needs, etc.) ☑ **Yes** ☐ **No**

***How will this electricity be supplied?** ☐ **On-Site** ☑ **Generator** ☐ **Combination of Both**
Please Note – The use of generators, temporary wiring, temporary electrical connections, etc. require permits and inspections. Please apply for the permit(s) prior to setting up at the Building Department located at 100 W. Dania Beach Blvd. Events requiring electricity are the responsibility of the applicant and must have a master electrician on site. Please allow 8-10 working days for permit approvals. Any generator less than 5KW does not require a permit.

Will there be live entertainment at this event? ☑ **Yes** ☐ **No**

Please indicate the type (Band, DJ, Live Performers, etc.): Band / Actors

Please specify the hours of entertainment:

DAY	DATE	START TIME	END TIME	TOTAL # OF HOURS
Saturday	12/5/2020	1pm	2 30 pm	1.5
Saturday	12/5/2020	7 pm	9 pm	2
Sunday	12/6/2020	1pm	2 30 pm	
Sunday	12/6/2020	7 pm	9 pm	

***Will a stage(s) be used in this event?** ☑ **Yes** ☐ **No**
*Please note Fire Extinguisher Requirement in the next question.

***Do you have adequate fire extinguishers for this event?** ☑ **Yes** ☐ **No**
****Please Note*** **-** Fire extinguishers must be supplied for each tent, canopy, cooking appliance and stage. They must be accessible from anywhere in the tent or on the stage without having to travel any further than 75 feet for access. Extinguishers must be easily accessible and not obscured from view. Fire extinguishers must be commercial "ABC Multi-Purpose" (minimum 5lbs.) fire extinguishers that are currently certified and tagged by a licensed company. You

need to demonstrate that this requirement will be met by making a note on the site plan indicating compliance with all of the above requirements or providing a letter to the City fire prevention bureau to that effect.

***Will there be concessions or sales of food at this event?** [ ] **Yes** [✓] **No**

Please specify: _____

****Please Note*** ***STATE HEALTH INSPECTIONS FOR FOOD: Pursuant to Florida law (Chapter 509, Florida Statutes) event sponsors are required to contact the State Health Inspector no less than 3 days prior to the event. Advance notification of 7 to 10 days is advisable. Please send a fax with your event plans and contact information to Fax Number (954) 956-5699. The Inspector's office will contact you to discuss food vendors and amounts and types of food you plan to make available to the public, whether it is being given away or sold.***

An original Certificate of Liability Insurance and Workers' Compensation Certificate is required from all vendors. You must ensure that the Liability Certificate is for this specific event, has the proper dates, and names the City of Dania Beach as an Additional Insured. No event will be approved without this insurance.

***Will any type of cooking appliances be used by either the Sponsor of the Event or any of its vendors? [ ] Yes [✓] No**

***If so, indicate the type of appliance(s) to be used and the number of each appliance to be used:**

[✓] N/A
[ ] Electric Grill(s); #____
[ ] Gas Grill(s); #____
[ ] Charcoal Grill(s); #____
[ ] Smoker Grills(s); #____
[ ] Grease Fryer(s); #____
[ ] Oven(s); #____
[ ] Electric Range Burner(s); #____
[ ] Gas Range Burner(s); #____

****Please Note*** – Grease Fryers are not permitted indoors unless they are protected with an approved Hood and a UL300 Compliant Wet Chemical Automatic Fire Suppression System in accordance with NFPA 96.

***Does each cooking appliance have its own dedicated Fire Extinguisher?** [ ] **Yes** [ ] **No** N/A
****Please Note*** - Each cooking appliance must have its own dedicated fire extinguisher. Class K fire extinguishers are required for fryers. You need to demonstrate that this requirement will be met by making a note on the site plan indicating compliance with all of the above requirements or providing a letter to the fire prevention bureau.

***Does each cooking area have the proper clearances from all other event areas?** [ ] **Yes** [ ] **No** N/A
****Please Note*** - Cooking areas can be located no closer than 30 feet from any tent or canopy structure, event rides, stages, grandstands or bleachers, etc. Ensure that this measurement is demonstrated on the site plan.

***Will there be sales of alcohol at this event?** [ ] **Yes** [✓] **No** N/
****Please Note*** – An original certificate of liquor liability insurance naming the City of Dania Beach as additional insured and a 1/2/3 Day Special Sales License is required to be submitted with this application. The license must be obtained from the State of Florida Department of Business and Professional Regulation.

If Yes, Please Specify Types of Alcohol to be Sold: [✓] **N/A** [ ] **Beer** [ ] **Wine** [ ] **Liquor**
[ ] **Mixed Drinks** [ ] **Other:** _____

If alcohol is being served, please indicate how the beverages will be served: [✓] **N/A**
[ ] **Draft Truck** [ ] **Cold Plate** [ ] **Mini-Bar** [ ] **Beer Tub** [ ] **Table Service**

Other: _____

Will there be alcohol given away at this event? ☐ **Yes** ☑ **No**

Please Specify Types of Alcohol to be given away: ☑ **N/A** ☐ **Beer** ☐ **Wine** ☐ **Liquor** ☐ **Mixed Drinks** ☐ **Other:** _____

Will there be retail sales at this event? ☐ **Yes** ☑ **No**

Please Specify: _____

***Will there be any carnival rides, mechanical or vehicular rides, or animal rides at this event?** ☐ **Yes** ☑ **No**

*If yes, please describe: _____

What is the name of the vendor or vendors providing the rides? ☑ **N/A**

_____

Please Note - If carnival rides are to be present, the rides must be inspected by a state inspector, city electrical inspector, and fire inspector 48 hours prior to the rides opening.

Are you providing to us a copy of the ride vendor's Certificate of Liability and Workers' Compensation Insurance with this application? ☐ **Yes** ☐ **No** N/A

Please Note – An original Certificate of Liability and Workers' Compensation Insurance is required for any and all rides. Ensure that the Certificate is for this specific event, has the proper dates, and names the City of Dania Beach as an Additional Insured. No event will be approved without this insurance.

***Will recreational vehicles be used for temporary overnight housing?** ☐ **Yes** ☑ **No**

Please Note – Indicate the locations of these on the site plan.

***Will there be any use of pyrotechnics or fireworks displays at this event?** ☐ **Yes** ☑ **No**

Please Note - Pyrotechnics fireworks displays require special applications, permits and inspections as well as an original Certificate of Liability and Workers' Compensation Insurance. In addition, a Fire Inspector will be required to be present during set-up and displays. This expense will be passed on to the event. (BSO or Fire Details may be required - refer to page 6)

***Will there be use of any Grandstands or Bleachers for seating at this event?** ☐ **Yes** ☑ **No**

Please Note - Bleachers and Grandstands may have to meet special safety code requirements. Locations must be indicated on the site plan. Plumbing permit is required for portable toilets.

***Are portable, ADA compliant sanitary facilities being provided for this event?** ☐ **Yes** ☑ **No**

If so, How many? _____ ☑ N/A Permanent facilities available

Please Note – Provide the locations of all sanitary facilities on the site plan.

***Is there a request for any temporary signage for this event?** ☐ **Yes** ☑ **No**

Please Note – **Any questions regarding temporary signage should be directed to City Code Compliance, (954)924-6810.**

Are there any services being requested from the City of Dania Beach? ☐ **Yes** ☑ **No**

If yes, please explain: _____

Please list any other conditions, terms or relevant information related to this event that may be of interest to the City:

BSO DETAIL REQUIREMENT
Based upon anticipated attendance, site or building size, site location, and ability to assure public safety requirements, a Broward Sheriff's Office Detail may be required.

FIRE WATCH REQUIREMENT
A Fire-Watch may be imposed depending on the type of event, number of persons present and hazards involved. The number of personnel and apparatus required may vary depending on the type of event and hazards involved. Below are the current rates charged for the presence of a fire watch detail, fire inspector or both:

> Off-Duty detail assignment services performed by Dania Beach Fire Rescue Personnel will be paid at their current overtime rate of pay with benefits (3 Hour Minimum). In addition, a City administrative fee of 10% will also be charged based on the total cost of personnel and apparatus. Personnel costs are currently estimated to be $84.42 per hour, per person (3 hour minimum).
>
> The cost of apparatus is as follows:
> Rescue Truck - $32.00 per hour
> Engine (1500 gpm) - $71.00 per hour
> Ladder (1500 gpm) - $80.00 per hour

The City of Dania Beach requires payment 14 days in advance for the detail services and fees are to be made payable to The City of Dania Beach by means of *cash advance or a cashier's check*. Fees are based on individual employee's overtime rates which vary from person to person. The amount estimated is based on the highest overtime rate currently payable in addition to fees for FICA, Medicare, Worker's Compensation and Administrative fees. In the event that the entire estimated amount is not required for services, the City will refund the money, less the expenses incurred for the service. Should the amount of time required for the fire watch detail exceed that agreed upon before the event, the Event sponsor will be required to pay for any overage based on the actual cost for the Fire Watch. The Event sponsor will be responsible to pay the actual service price incurred.

The information I have provided on this application is true and complete to the best of my knowledge. I understand that approval of this event is contingent upon review and approval of all City Disciplines, the City Attorney's Office and the City Commission.

Kim Butler
Signature of Applicant

Marketing Director
Title

Kim Butler
Print name of Applicant

11/16/2020
Date

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me on November 16, **200**20.

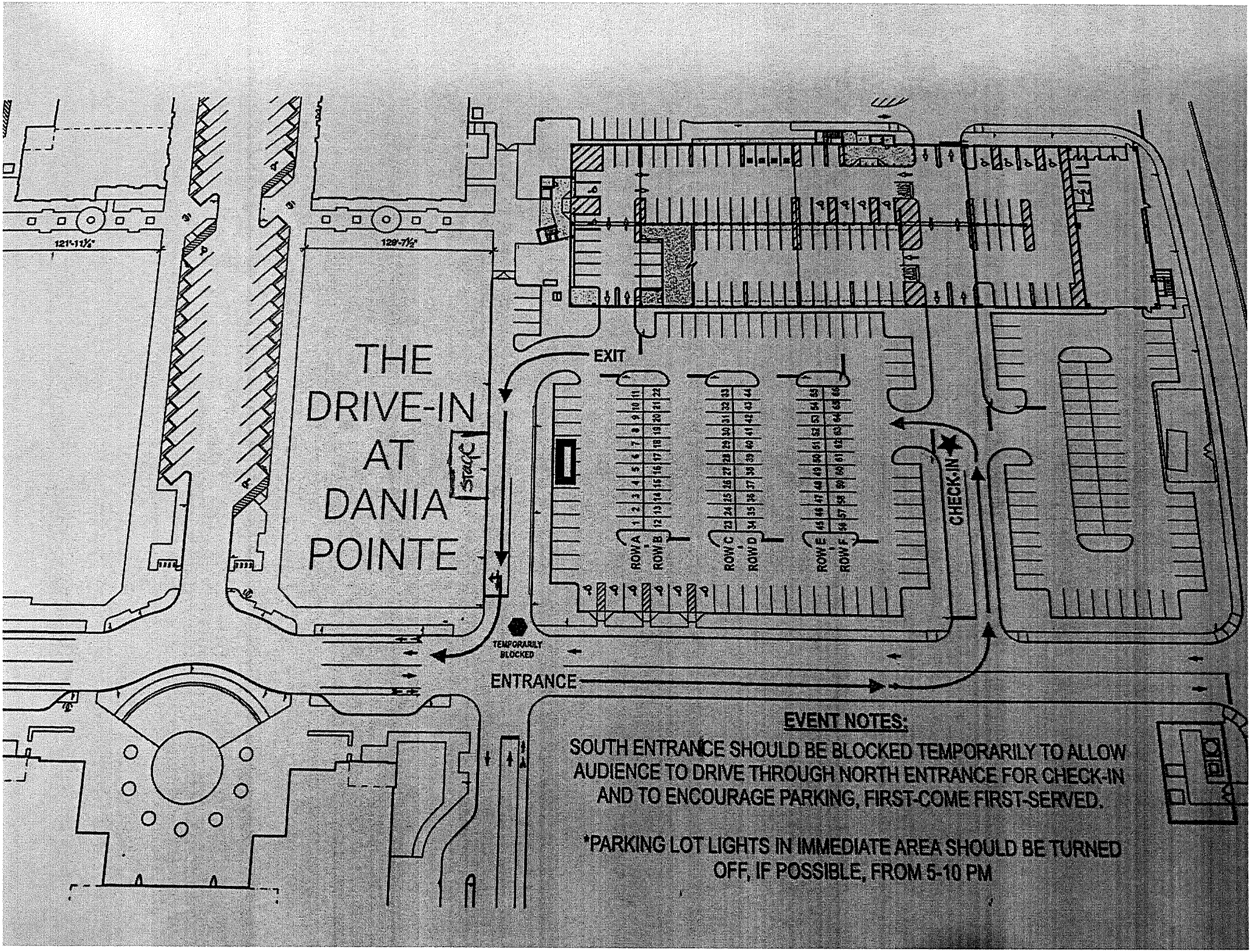
by Kim Butler, **who is personally known to me, or, if not, such person produced the following form of identification:** Florida DL.

MARY LEE MATTIS
MY COMMISSION # GG 064648
EXPIRES: March 6, 2021
Bonded Thru Budget Notary Services

NOTARY PUBLIC Mary Lee Mattis

My Commission expires: March 6, 2021

My Commission number: GG 064648


THE DRIVE-IN AT DANIA POINTE
STAGE
EXIT
CHECK-IN
ENTRANCE
TEMPORARILY BLOCKED
ROW A
ROW B
ROW C
ROW D
ROW E
ROW F
121'-11¼"
129'-7½"
EVENT NOTES:
SOUTH ENTRANCE SHOULD BE BLOCKED TEMPORARILY TO ALLOW AUDIENCE TO DRIVE THROUGH NORTH ENTRANCE FOR CHECK-IN AND TO ENCOURAGE PARKING, FIRST-COME FIRST-SERVED.
*PARKING LOT LIGHTS IN IMMEDIATE AREA SHOULD BE TURNED OFF, IF POSSIBLE, FROM 5-10 PM

DANIA POINTE

DINE • SHOP • PLAY • LIVE • WORK • STAY

To: Shanesa Mykoo

From: Kim Butler, Dania Pointe

Date: November 16, 2020

Re: Holiday Drive In Concert

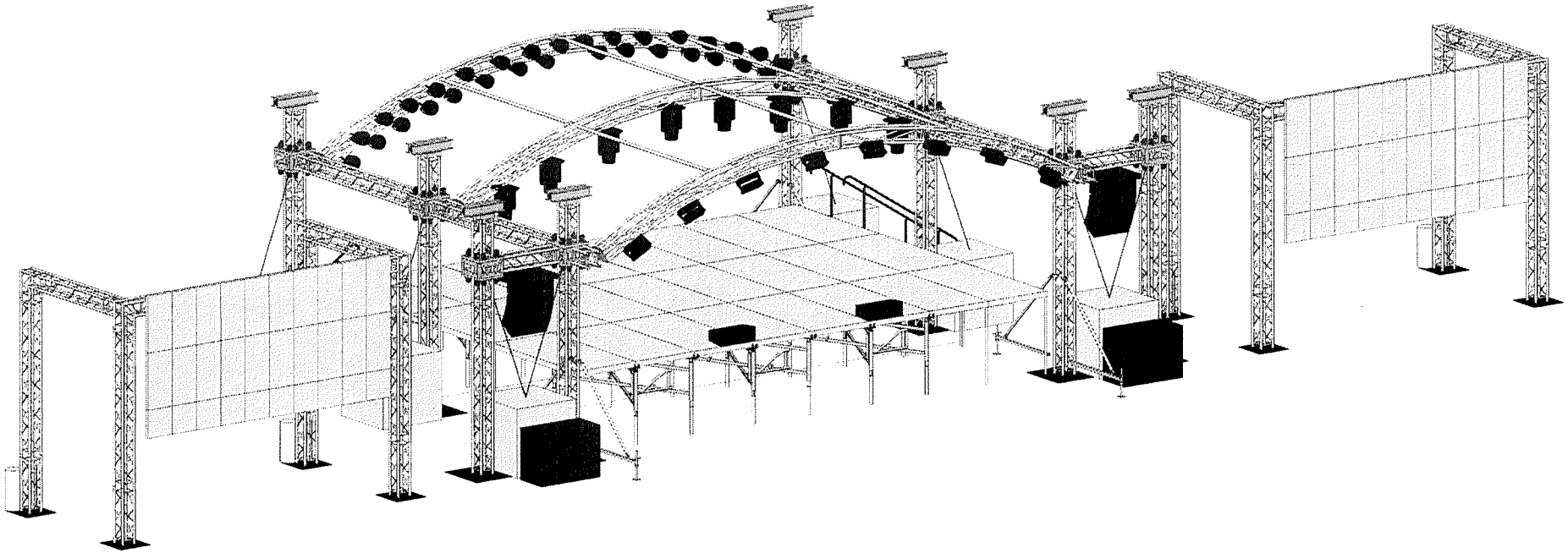
This is to confirm landlord permission to hold the Holiday Concert events on December 5th and 6th, 2020 at Dania Pointe.

Dania Pointe is hosting this event and hereby authorizes use of its property to hold the event.

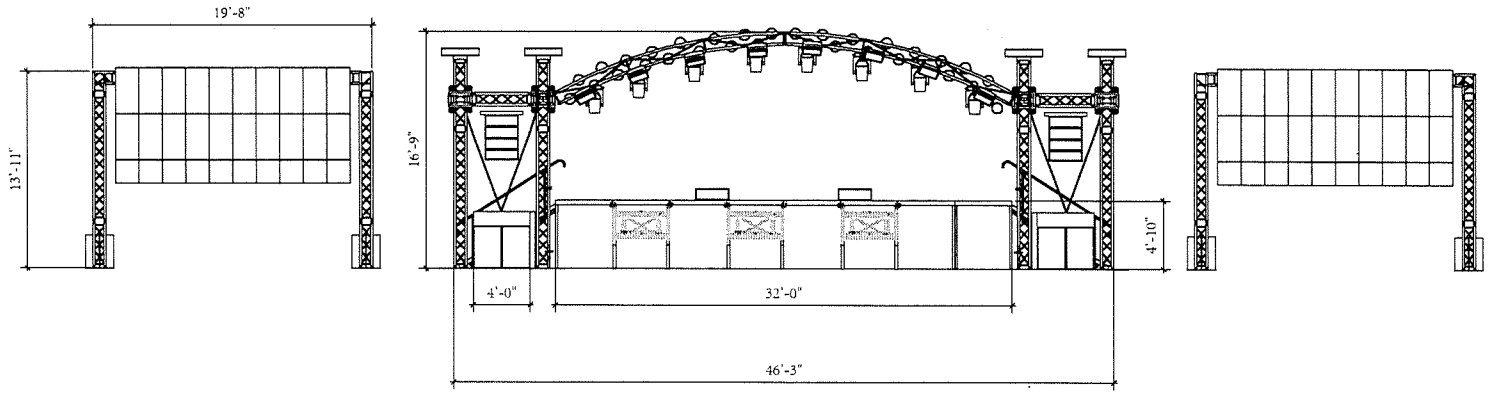
This event is a live concert, drive in event. Attendees will be required to adhere to all COVID-19 safety practices, with a limit of 5 persons (children and adults) per vehicle. Wearing of masks and social distancing will be mandatory at any time any occupant leaves their vehicle.

Attendees will be expected to remain in their vehicles for the concert.

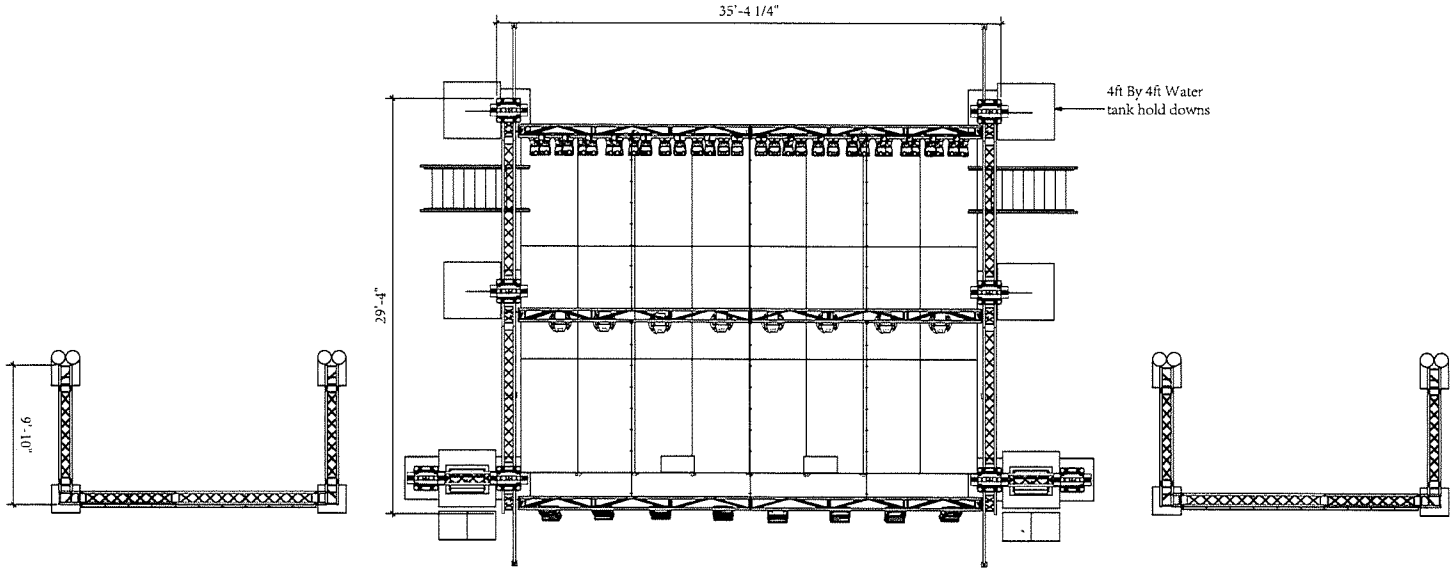
Thank you.



	B	10/29/2020		Designed By	Holiday Drive In Concert 139 S Compass Way Dania Beach, Fl 33004	Project Manager Francisco	Revision
	A	10/26/2020		Page Size 24" X 36"	Sheet Title Floor Plan	Drawn By Reviewed By Print Date 12/5-6/20	Sheet No. Sht-1
	No.	Date				Scale 1:1	of 12



1 Front Elevation
Scale 1/4" = 1'-0"



2 Top View
Scale 1/4" = 1'-0"

Holiday Drive In Concert
139 S Compass Way
Dania Beach, Fl 33004

Front Elevation

Francisco

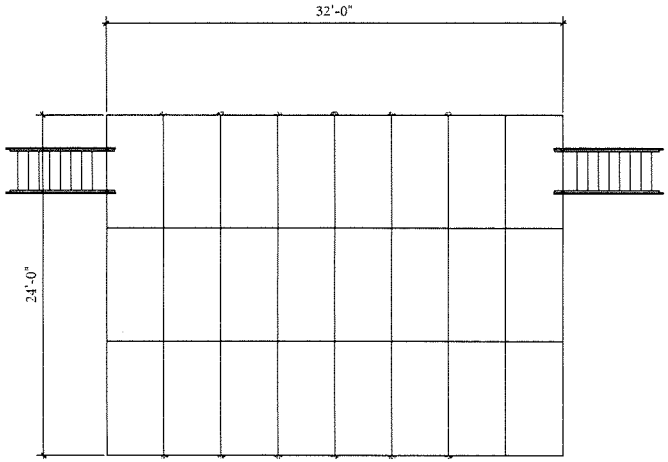
1:1

12/5-6/20

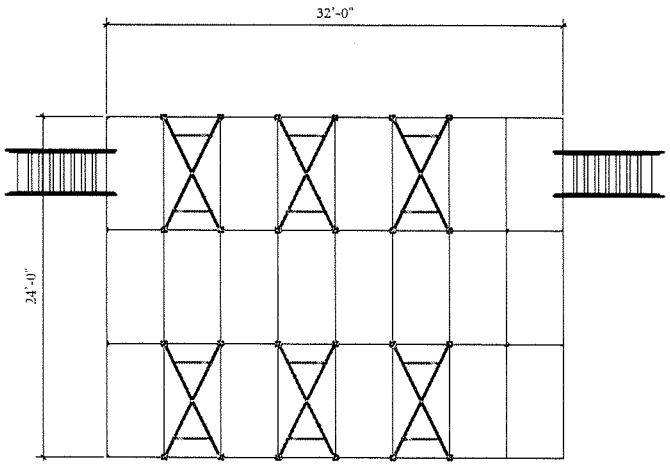
Sht-2

of

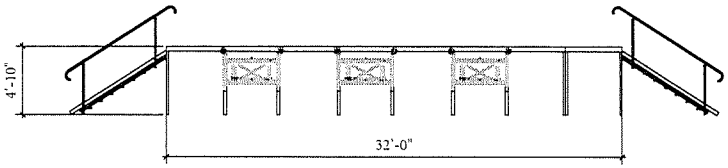
12



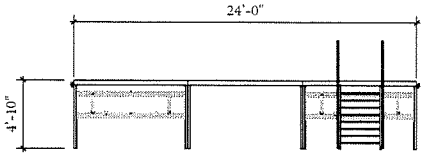
3 Stage Dimensions
Scale 1/4" = 1'-0"



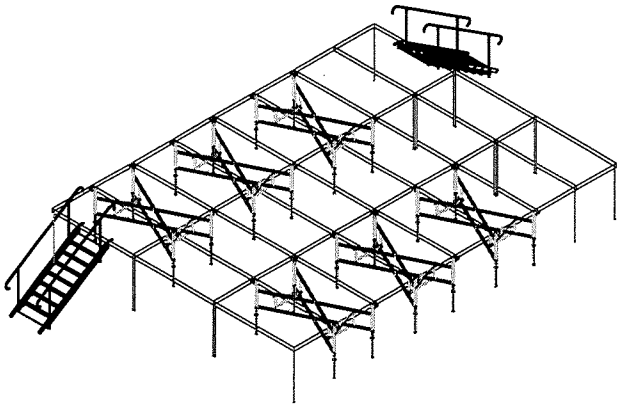
5 Stage Dimensions
Scale 1/4" = 1'-0"



1 Stage Dimensions
Scale 1/4" = 1'-0"



6 Side View
Scale 1/4" = 1'-0"



Holiday Drive In Concert
139 S Compass Way
Dania Beach, Fl 33004

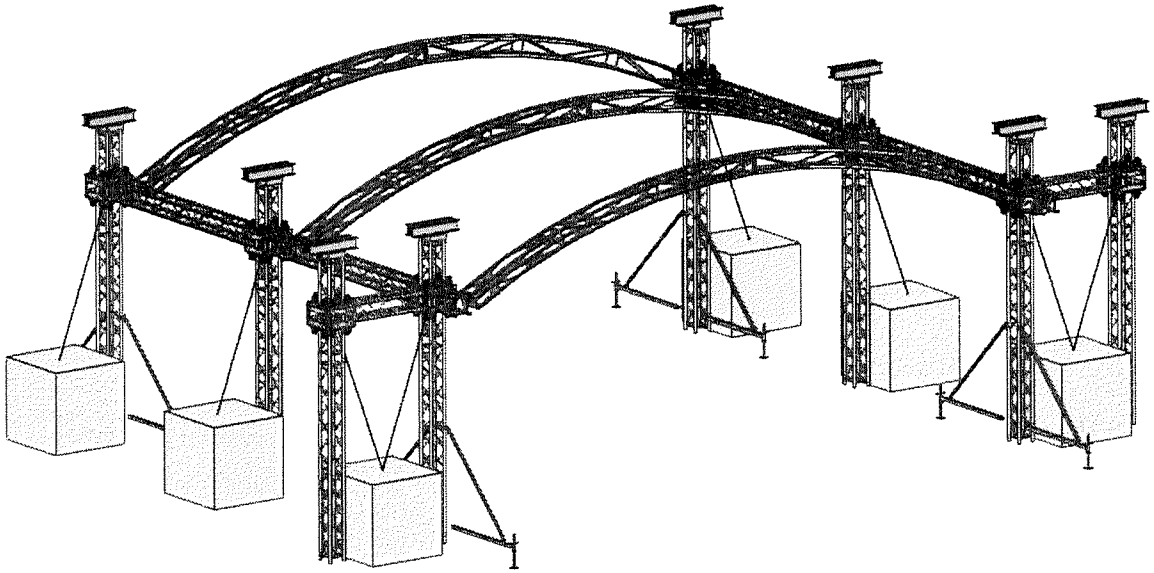
Top View

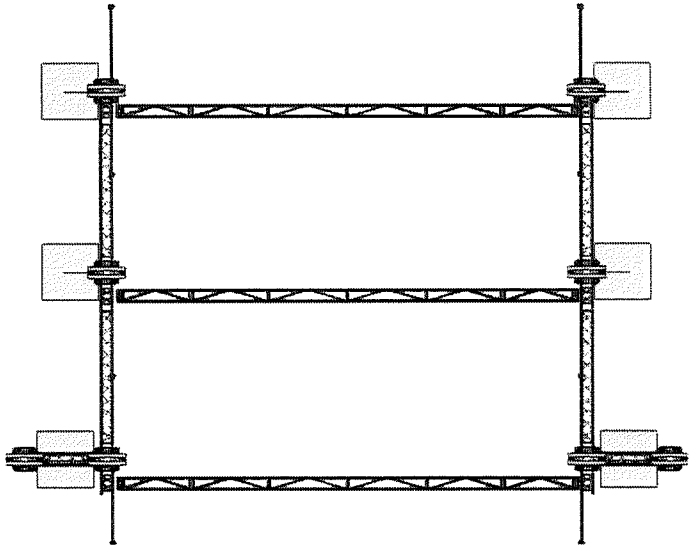
Francisco

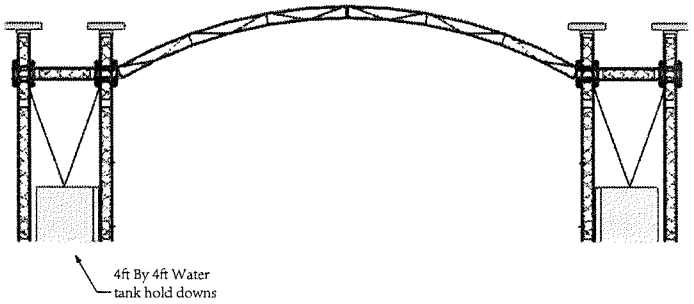
1:1

12/5-6/20

Sht-3
of
12







Holiday Drive In Concert
139 S Compass Way
Dania Beach, Fl 33004

Truss layout

Francisco

1:1

12/5-6/23

Sht-4

of

12

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Special Event

Continued from:

Requested Action (Identify appropriate Action or Motion)
Special Event request from Dania Live 1748 II, LLC to host "Cars at the Pointe" events on the third Sunday of every month for the next 11 months beginning on December 20, 2020 and ending on October 17, 2021 at Dania Pointe, 81 SW 18th Avenue, from 10:00 a.m. - 2:00 p.m.

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
special event memo - Dania Pointe Car Show - 11 months, Cars @ the Pointe - Special Event, cars @ the pointe site plan, Letter of consent cars @ the pointe

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

Candido Sosa-Cruz
Digitally signed by Candido Sosa-Cruz
DN: cn=Candido Sosa-Cruz, o=City of Dania Beach, ou=City Manager, email=csosacruz@daniabeachfl.gov, c=US
Date: 2020.12.01 15:09:37 -05'00'

VIA: Candido Sosa- Cruz, Assistant City Manager
Eleanor Norena, CFM Community Development Director

Eleanor Norena
Digitally signed by Eleanor Norena
DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US
Date: 2020.12.01 13:43:49 -05'00'

RE: Special Events Application Request from Dania Pointe to host a "Cars at the Pointe" scheduled for the third Saturday of every month for the next 11 months beginning on December 20, 2020 and ending on October 17, 2020.

Request

A Special Event approval is being requested by Kim Butler on behalf of Dania Pointe to host a "Car Show" on the third Saturday of every month for the next 11 months beginning at 7:30 am and ending at 2:30 pm.

Background

The requested car show event will be held at Dania Pointe, 81 SW 18th Ave, Dania Beach, FL. in the parking lot adjacent to the Rodizio Grill. Attendees must wear facial covering and adhere to all social distancing guidelines while attending this free event.

We have provided the property owner a copy of the Broward County and City Emergency orders requiring social distancing at all times along with CDC guidelines and have attached both documents as part of the approval item. Code Compliance Staff will ensure compliance of these orders during the event dates.

Budgetary Impact

The special events application fee for this event is $150.00. A late fee of $ 75.00 was assessed, because the application was received after the sixty (60) day cut off. Applicant will pay for necessary services if recommended below.

Recommendation

It is recommended that the City Commission approve the special events application request in whole with compliance of the conditions noted below.

Staff	Comments/ Conditions
BSO Fire: Fire Prevention	No concerns raised
Building Official	No concerns raised
City Attorney	No concerns raised
Code Enforcement	No concerns raised
Community Development	No concerns raised
Hr/ Risk Mgmt-	No concerns raised
Parks & recreation-	No concerns raised
Public Services	No concerns raised
BSO Police Dept.	No concerns raised.

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

City of Dania Beach

100 West Dania Beach Blvd., Dania Beach, FL 33004

SPECIAL EVENTS APPLICATION – EVENTS ON PRIVATE / PUBLIC PROPERTY

Please PRINT or TYPE

NOTE: ALL APPLICATIONS MUST BE COMPLETED AND SUBMITTED TO THE CITY FOR APPROVAL 60 DAYS PRIOR TO THE EVENT INCLUDING PAYMENT OF ALL APPLICATION FEES (SEE ATTACHED).

Event Name, Date, and Time: CARS @ THE POINTE

*Brief Description of the Event: CAR Sitow, 8

Address/Location of Event: Sunset Dr. Dania Pointe

Event Coordinator: Kim Butler

Telephone #1: 954-809-5389 E-mail Address: Kbutler@daniapointe.com

Telephone #2: Fax:

Additional Contact Person for the Event: Joe Bevilacqua

Telephone #1: 954-825-1027 E-mail Address: jbevsr@msn.com

Telephone #2: Fax:

Organization or Sponsor of Event: Dania Live 1748, II, LLC

Address: 81 SW 18th Ave.

City, State, Zip Code: Dania Beach, FL 33004

Telephone: Fax: Cell: 954-809-5389

Is this a Non-Profit Organization? ☐ Yes ☒ No Tax ID #:

Corporation Name **(As it appears in the Articles of Incorporation)**:

Dania Live 1748 II, LLC.

Date of Incorporation: State of Incorporation:

Federal ID #:

Authorizing Official for the Organization:

Telephone #1: E-mail Address:

Telephone #2:

Authorizing Official for the Organization: Kim Butler

Telephone #1: _____ E-mail Address: _____

Telephone #2: _____

***Property Owner:** Dania Live 1748 II, LLC

****Please Note – A letter of Consent is required from the property owner for the approval of this application.***

Is the letter attached? ☑ **Yes** ☐ **No**

Will any portion of this event take place on Public or City Property? ☐ **Yes** ☑ **No**

Will there be a charge for admission? ☐ **Yes** ☑ **No** **If yes, how much?** _____

Has this event been held in the past? ☑ **Yes** ☐ **No**

If so, Indicate the city location of last event: Hollywood

Is the event to take place: ☐ **Indoors** ☑ **Outdoors** ☐ **Both**

Number of Expected Daily Attendants: _____ **(BSO or Fire Details may be required - refer to page 6)**

Please indicate the duration of the event: 3rd Sunday of each month

DAY	DATE	START TIME	END TIME	TOTAL # OF HOURS
Sunday	12/20/2020	10 am	2pm	4
Sunday	1/17/21			
Sunday	2/21/21			
	3/21/21			
	4/18/21			
	5/16/21			
	6/20/21			
	7/18/21			
	8/15/21			
	9/19/21			
	10/17/21			

Anticipated Date and Time to Begin Set-Up: Day of event - 730 am

Anticipated Date and Time for Completion of Break-Down: Day of event - 230 pm

***Do you have a site plan for the event to be submitted with this application?** ☑ **Yes** ☐ **No**

****Please Note*** – A site plan indicating the following conditions must accompany the application or the application will be rejected, resulting in a significant time delay. The fire department must have easy access to the special event area. The site plan must include the following: entrances and exits, emergency vehicle access routes, parking, general vehicular drive paths, fire hydrant locations, fire department connections, street closure requests, fenced areas, grandstand, bleacher or other seating locations, tent and stage locations, cooking areas, and locations of any pyrotechnical material, fireworks, etc. In addition, the site plan must include the location of any rides (animal or mechanical), petting zoos, exhibits, DJ's, bands, performers, sanitary facilities, recreation vehicles for overnight housing, etc.

Is there a request for any road closures? ☐ **Yes** ☑ **No**

Please identify the street name(s) and/or locations for closure requests: _____

***Please Note* – These streets must also be identified on the site plan.**

***Are you requesting to fence the event area?** ☐ **Yes** ☒ **No**
Please Note – You must identify any fencing area on the site plan.

***Will Canopies (tent structure with no sides) be used for this event?** ☐ **Yes** ☒ **No**
****Please Note*** - All tent structures with canopies in excess of 400 square feet [Per NFPA 1: Table 1.12.19(a)] require building permits and inspections. All canopies must be flame retardant. A certificate of flame retardency and a sample of the canopy fabric for field testing must be submitted for product approval with this application. This information can be obtained from the canopy manufacturer or the canopy rental company. Please apply for the permit at the Building Department located at 100 W. Dania Beach Blvd. Please allow 8-10 working days for permit approvals.

***Will Tents (With Sides) be used for this event?** ☐ **Yes** ☒ **No**
****Please Note*** – All tents in excess of 200 square feet [Per NFPA 1: Table 1.12.19(a)] require building permits and inspections. All tents must be flame retardant. A certificate of flame retardancy and a sample of the tent fabric for field testing must be submitted for product approval with this application. This information can be obtained from the tent manufacturer or the tent rental company. If the tents have sides, they are treated as buildings. They must have two separate exits remotely located from each other with electrically illuminated exit signs that have a battery back-up. In addition, they must have emergency egress lighting and fire extinguishers. Provide a life safety plan for these tents indicating the location of all Exits, Exit Signs, Emergency Lighting, Aisle Spacing, Fire Extinguisher locations, etc. Permits must be obtained for all tents and electrical work. Please apply for all permits at the Building Department located at 100 W. Dania Beach Blvd. Please allow 8-10 working days for permit approvals.

***Will electricity be required for this event?**
(for lighting, sound, cooking, other power needs, etc.) ☑ **Yes** ☐ **No**

***How will this electricity be supplied?** ☑ **On-Site** ☐ **Generator** ☐ **Combination of Both**
Please Note – The use of generators, temporary wiring, temporary electrical connections, etc. require permits and inspections. Please apply for the permit(s) prior to setting up at the Building Department located at 100 W. Dania Beach Blvd. Events requiring electricity are the responsibility of the applicant and must have a master electrician on site. Please allow 8-10 working days for permit approvals. Any generator less than 5KW does not require a permit.

Will there be live entertainment at this event? ☑ **Yes** ☐ **No**

Please indicate the type (Band, DJ, Live Performers, etc.): DJ

Please specify the hours of entertainment:

DAY	DATE	START TIME	END TIME	TOTAL # OF HOURS
Sunday	12/20/2020	10 am	2pm	4
3rd Sunday of	↓	↓	↓	↓
each month through				
October 15, 2021				

***Will a stage(s) be used in this event?** ☐ **Yes** ☒ **No**
*Please note Fire Extinguisher Requirement in the next question.

***Do you have adequate fire extinguishers for this event?** ☑ **Yes** ☐ **No**
****Please Note*** - Fire extinguishers must be supplied for each tent, canopy, cooking appliance and stage. They must be accessible from anywhere in the tent or on the stage without having to travel any further than 75 feet for access. Extinguishers must be easily accessible and not obscured from view. Fire extinguishers must be commercial "ABC Multi-Purpose" (minimum 5lbs.) fire extinguishers that are currently certified and tagged by a licensed company. You

need to demonstrate that this requirement will be met by making a note on the site plan indicating compliance with all of the above requirements or providing a letter to the City fire prevention bureau to that effect.

***Will there be concessions or sales of food at this event?** [ ] **Yes** [X] **No**

Please specify: _____

****Please Note*** ***STATE HEALTH INSPECTIONS FOR FOOD: Pursuant to Florida law (Chapter 509, Florida Statutes) event sponsors are required to contact the State Health Inspector no less than 3 days prior to the event. Advance notification of 7 to 10 days is advisable. Please send a fax with your event plans and contact information to Fax Number (954) 956-5699. The Inspector's office will contact you to discuss food vendors and amounts and types of food you plan to make available to the public, whether it is being given away or sold.***

An original Certificate of Liability Insurance and Workers' Compensation Certificate is required from all vendors. You must ensure that the Liability Certificate is for this specific event, has the proper dates, and names the City of Dania Beach as an Additional Insured. No event will be approved without this insurance.

***Will any type of cooking appliances be used by either the Sponsor of the Event or any of its vendors? [ ] Yes [X] No**

***If so, indicate the type of appliance(s) to be used and the number of each appliance to be used:**

[X] N/A
[ ] Electric Grill(s); #____
[ ] Gas Grill(s); #____
[ ] Charcoal Grill(s); #____
[ ] Smoker Grills(s); #____
[ ] Grease Fryer(s); #____
[ ] Oven(s); #____
[ ] Electric Range Burner(s); #____
[ ] Gas Range Burner(s); #____

****Please Note*** – Grease Fryers are not permitted indoors unless they are protected with an approved Hood and a UL300 Compliant Wet Chemical Automatic Fire Suppression System in accordance with NFPA 96.

***Does each cooking appliance have its own dedicated Fire Extinguisher?** [ ] **Yes** [ ] **No** N/A
****Please Note*** **-** Each cooking appliance must have its own dedicated fire extinguisher. Class K fire extinguishers are required for fryers. You need to demonstrate that this requirement will be met by making a note on the site plan indicating compliance with all of the above requirements or providing a letter to the fire prevention bureau.

***Does each cooking area have the proper clearances from all other event areas?** [ ] **Yes** [ ] **No** N/A
****Please Note*** **-** Cooking areas can be located no closer than 30 feet from any tent or canopy structure, event rides, stages, grandstands or bleachers, etc. Ensure that this measurement is demonstrated on the site plan.

***Will there be sales of alcohol at this event?** [ ] **Yes** [X] **No**
****Please Note*** – An original certificate of liquor liability insurance naming the City of Dania Beach as additional insured and a 1/2/3 Day Special Sales License is required to be submitted with this application. The license must be obtained from the State of Florida Department of Business and Professional Regulation.

If Yes, Please Specify Types of Alcohol to be Sold: [X] **N/A** [ ] **Beer** [ ] **Wine** [ ] **Liquor**
[ ] **Mixed Drinks** [ ] **Other:** _____

If alcohol is being served, please indicate how the beverages will be served: [X] **N/A**
[ ] **Draft Truck** [ ] **Cold Plate** [ ] **Mini-Bar** [ ] **Beer Tub** [ ] **Table Service**

Other: _____

Will there be alcohol given away at this event? ☐ **Yes** ☒ **No**

Please Specify Types of Alcohol to be given away: ☒ **N/A** ☐ **Beer** ☐ **Wine** ☐ **Liquor** ☐ **Mixed Drinks** ☐ **Other:** _____

Will there be retail sales at this event? ☐ **Yes** ☒ **No**

Please Specify: _____

***Will there be any carnival rides, mechanical or vehicular rides, or animal rides at this event?** ☐ **Yes** ☒ **No**

*If yes, please describe: _____

What is the name of the vendor or vendors providing the rides? ☒ **N/A**

_____

Please Note - If carnival rides are to be present, the rides must be inspected by a state inspector, city electrical inspector, and fire inspector 48 hours prior to the rides opening.

Are you providing to us a copy of the ride vendor's Certificate of Liability and Workers' Compensation Insurance with this application? ☐ **Yes** ☐ **No** N/A

Please Note – An original Certificate of Liability and Workers' Compensation Insurance is required for any and all rides. Ensure that the Certificate is for this specific event, has the proper dates, and names the City of Dania Beach as an Additional Insured. No event will be approved without this insurance.

***Will recreational vehicles be used for temporary overnight housing?** ☐ **Yes** ☒ **No** N/A

Please Note – Indicate the locations of these on the site plan.

***Will there be any use of pyrotechnics or fireworks displays at this event?** ☐ **Yes** ☒ **No** N/A

Please Note - Pyrotechnics fireworks displays require special applications, permits and inspections as well as an original Certificate of Liability and Workers' Compensation Insurance. In addition, a Fire Inspector will be required to be present during set-up and displays. This expense will be passed on to the event. (BSO or Fire Details may be required - refer to page 6)

***Will there be use of any Grandstands or Bleachers for seating at this event?** ☐ **Yes** ☒ **No** N/A

Please Note - Bleachers and Grandstands may have to meet special safety code requirements. Locations must be indicated on the site plan. Plumbing permit is required for portable toilets.

***Are portable, ADA compliant sanitary facilities being provided for this event?** ☑ **Yes** ☐ **No** Existing facilities

If so, How many? _____ ☐ N/A

Please Note – Provide the locations of all sanitary facilities on the site plan.

***Is there a request for any temporary signage for this event?** ☐ **Yes** ☒ **No**

Please Note **– Any questions regarding temporary signage should be directed to City Code Compliance, (954)924-6810.**

Are there any services being requested from the City of Dania Beach? ☐ **Yes** ☒ **No**

If yes, please explain: _____

Please list any other conditions, terms or relevant information related to this event that may be of interest to the City:

BSO DETAIL REQUIREMENT
Based upon anticipated attendance, site or building size, site location, and ability to assure public safety requirements, a Broward Sheriff's Office Detail may be required.

FIRE WATCH REQUIREMENT
A Fire-Watch may be imposed depending on the type of event, number of persons present and hazards involved. The number of personnel and apparatus required may vary depending on the type of event and hazards involved. Below are the current rates charged for the presence of a fire watch detail, fire inspector or both:

> Off-Duty detail assignment services performed by Dania Beach Fire Rescue Personnel will be paid at their current overtime rate of pay with benefits (3 Hour Minimum). In addition, a City administrative fee of 10% will also be charged based on the total cost of personnel and apparatus. Personnel costs are currently estimated to be $84.42 per hour, per person (3 hour minimum).
>
> The cost of apparatus is as follows:
> Rescue Truck - $32.00 per hour
> Engine (1500 gpm) - $71.00 per hour
> Ladder (1500 gpm) - $80.00 per hour

The City of Dania Beach requires payment 14 days in advance for the detail services and fees are to be made payable to The City of Dania Beach by means of *cash advance or a cashier's check*. Fees are based on individual employee's overtime rates which vary from person to person. The amount estimated is based on the highest overtime rate currently payable in addition to fees for FICA, Medicare, Worker's Compensation and Administrative fees. In the event that the entire estimated amount is not required for services, the City will refund the money, less the expenses incurred for the service. Should the amount of time required for the fire watch detail exceed that agreed upon before the event, the Event sponsor will be required to pay for any overage based on the actual cost for the Fire Watch. The Event sponsor will be responsible to pay the actual service price incurred.

The information I have provided on this application is true and complete to the best of my knowledge. I understand that approval of this event is contingent upon review and approval of all City Disciplines, the City Attorney's Office and the City Commission.

Kim Butler
Signature of Applicant

Marketing Director
Title

Kim Butler
Print name of Applicant

11/16/2020
Date

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me on November 16**, 200**20**.**

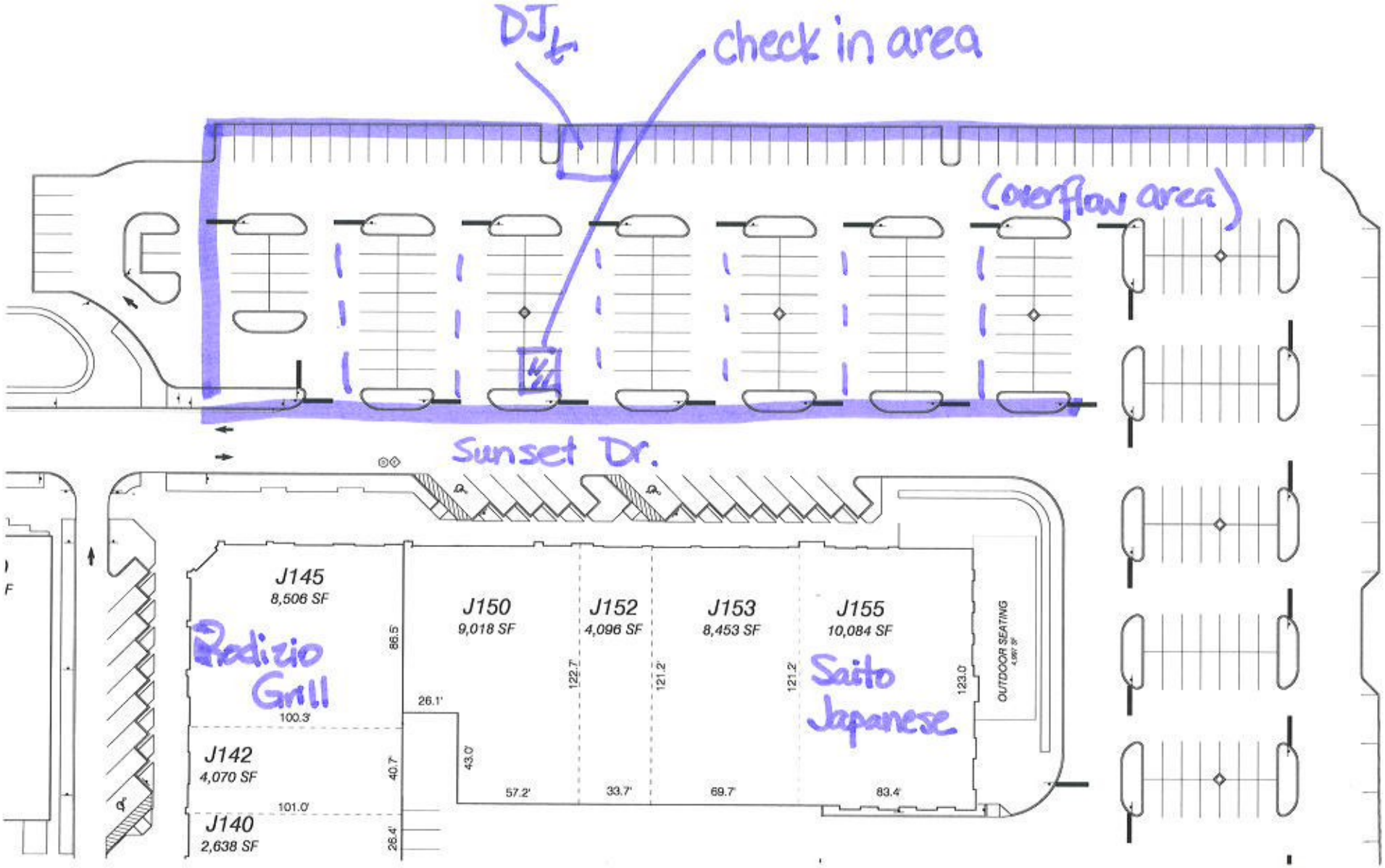
by Kim Butler**, who is personally known to me, or, if not, such person produced the following form of identification:** Florida DL**.**

MARY LEE MATTIS
MY COMMISSION # GG 064648
EXPIRES: March 6, 2021
Bonded Thru Budget Notary Services

NOTARY PUBLIC Mary Lee Mattis

My Commission expires: March 6, 2021

My Commission number: GG 064648



SP-31
Partial Site Plan

DANIA POINTE DANIA BEACH, FL

Scale : 1" = 20'-0"

KIMCO REALTY

MASTER DEVELOPMENT

SREA SALZMAN

7100 East Pleasant Valley Road, Suite 320
Cleveland, Ohio 44131
T: 216.520.1551 F: 216.520.1567
mcgarchitecture.com

Cars @ the Pointe

DANIA POINTE

DINE • SHOP • PLAY • LIVE • WORK • STAY

To: Shanesa Mykoo

From: Kim Butler, Dania Pointe

Date: November 16, 2020

Re: Cars @the Pointe

This is to confirm landlord permission to hold the Cars@the Pointe car shows at Dania Pointe on the third Sunday of each month from December 20, 2020 through October 17, 2021.

Dania Pointe is partnering with Cobra Joe Productions for this event and hereby authorizes use of its property to hold the event.

This event is a car show. Owners and Attendees will be required to adhere to all COVID-19 safety practices. Wearing of masks and social distancing will be mandatory in adherence to local and County regulations.

Proper signage, plexiglass dividers at registration, and hand sanitizers will be supplied.

Thank you.

MINUTES OF VIRTUAL REGULAR MEETING
DANIA BEACH CITY COMMISSION
TUESDAY, OCTOBER 27, 2020 – 7:00 P.M.

1. Call to Order/Roll Call

Mayor Lewellen called the meeting to order at 7:00 p.m.

Present:

Mayor:	Lori Lewellen
Vice-Mayor:	Lauren Odman
Commissioners:	Chickie Brandimarte
	Bill Harris
	Tamara James
City Manager:	Ana M. Garcia, ICMA-CM
City Attorney:	Thomas Ansbro
City Clerk:	Thomas Schneider

2. Moment of Silence and Pledge of Allegiance

Mayor Lewellen called for a moment of silence after the Pledge of Allegiance to the United States Flag.

3. Presentations and Special Event Approvals

3.1 Update on the new openings and holiday plans for Dania Pointe by Kim Butler, Marketing Director for Dania Pointe/Kimco

This item was taken up immediately after item 3.2.

Ms. Butler provided an update on new store openings, an upcoming video shoot, and upcoming events in November and December.

3.2 Presentation on "Public Services Department Beautification Program and Summary of Capital Improvement Projects" – Fernando J. Rodriguez, Public Services Director and Dincer Ozaydin, Deputy Public Services Director/City Engineer

Public Services Director Rodriguez and Deputy Public Services Director/City Engineer Ozaydin gave a PowerPoint presentation on Capital Improvement Projects and stormwater projects, which is attached to and incorporated into these minutes. They responded to questions from the Commission.

3.3 Special Event request from Blue Ridge Tree Farm to allow holiday tree sales from November 24, 2020 - December 24, 2020, at Community Bible Church, 4650 SW 30 Avenue, daily from 10:00 a.m. - 9:30 p.m. *(Community Development)*

Commissioner Harris motioned to approve the Special Event request for holiday tree sales; seconded by Commissioner James. The motion carried unanimously.

4. Proclamations

There were no proclamations at this meeting.

5. Citizen Comments

City Attorney Ansbro read an excerpt from the Decorum Policy.

Sheila Johnson, 290 SE 7th Street, questioned whether the City charges stormwater fees.

City Manager Garcia noted information would be put together and provided to Ms. Johnson to answer this and her other questions received via email.

Sarah Levtov, 5960 SW 37 Terrace, spoke about flooding and drainage issues in her neighborhood.

Sean Ritterman, 588 SW 36th Terrace, spoke about the Zoning-in-Progress in place to create a tree overlay district. He noted the residents do not know what they can or cannot do, he does not understand the historic heritage designation of the trees, and felt this is contrary to state law.

6. Public Safety Reports

BSO Lieutenant Tarala reported on recent criminal activity in the City and the prescription take-back event held recently.

Captain Sergio Pellecer, BSO District Fire Chief, gave an update on his department and the monitoring of personnel to ensure the safety of our residents. He addressed efforts undertaken with nursing homes, hydrant maintenance, and fire safety presentations.

7. Consent Agenda

Items removed from Consent Agenda: #7.4

7.1 Minutes: None

7.2 Travel Requests: None

7.3 Motion to approve a refund by the City of Dania Beach of certain sewer impact fees for Dania Live, 1748, LLC and accept the $250,000 contribution toward traffic calming and roadway improvements. *(Community Development)*

Resolutions

7.5 RESOLUTION #2020-132

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A THIRD AMENDMENT TO THE EXISTING AGREEMENT FOR PROFESSIONAL LANDSCAPING SERVICES WITH SAM'S LANDSCAPING INC. (SLI) EXPANDING THE NUMBER OF LOCATIONS SERVICED AND INCREASING THE ANNUAL CONTRACT AMOUNT BY ONE HUNDRED FIFTY SEVEN THOUSAND SIX HUNDRED DOLLARS ($157,600.00); PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services*

7.6 RESOLUTION #2020-133

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE PROPER CITY OFFICIALS TO ACCEPT AND EXECUTE A NON-FINANCIAL HAZARDOUS MITIGATION GRANT PROGRAM AGREEMENT (PROJECT 4337-494-R) BETWEEN THE CITY OF DANIA BEACH, FLORIDA AND THE FLORIDA DIVISION OF EMERGENCY MANAGEMENT FOR THE SOUTHEAST DRAINAGE PROJECT – PHASE I – GLOBAL; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services)*

7.7 RESOLUTION #2020-134

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE PROPER CITY OFFICIALS TO UTILIZE AVAILABLE FUNDS BUDGETED UNDER THE OASIS XIV PROJECT TO FUND CHANGE ORDER NO. 1 FOR CONSTRUCTION ENGINEERING AND INSPECTION CONTRACT COSTS WITH R.J. BEHAR COMPANY, INC.; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services)*

7.8 RESOLUTION #2020-135

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE PROPER CITY OFFICIALS TO APPROVE CREDIT CHANGE ORDER NO. 5 IN THE AMOUNT OF ELEVEN THOUSAND SIX HUNDRED SIX DOLLARS AND FIVE CENTS ($11,606.05) TO SAGARIS CORP. FOR THE DANIA BEACH CITYWIDE PEDESTRIAN SAFETY (CRA MULTIMODAL IMPROVEMENTS) PROJECT; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services)*

7.9 RESOLUTION #2020-136

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A RECIPROCAL USE AGREEMENT WITH THE SCHOOL BOARD OF BROWARD COUNTY, FLORIDA, A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION, RELATING TO THE MUTUAL AND RECIPROCALUSE BY THE CITY AND THE BOARD

OF CITY AND SCHOOL BOARD FACILITIES; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Parks & Recreation)*

7.10 RESOLUTION #2020-137

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, ESTABLISHING SUPPORT FOR A POLICY OF NO SMOKING IN OPEN PUBLIC SPACES TO INCLUDE PARKS, SPORT FIELDS, CONSERVATION SITES AND BEACHES; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Parks & Recreation)*

Commissioner James motioned to adopt the Consent Agenda, with the exception of Item #7.4; seconded by Commissioner Harris. The motion carried unanimously.

7.4 RESOLUTION #2020-131

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE PROPER CITY OFFICIALS TO EXECUTE A CONTRIBUTION AGREEMENT WITH DANIA LIVE 1748, LLC AND DANIA LIVE 1748 II, LLC, BOTH DELAWARE LIMITED LIABILITY COMPANIES, THE DEVELOPER OF DANIA POINTE, IN WHICH AGREEMENT DANIA POINTE AGREES TO PROVIDE THE CITY WITH $200,000.00 TO BE USED FOR THE CONSTRUCTION OF AN EMS STATION, PURCHASE OF AN EMS TRUCK OR EQUIPMENT, AT THE CITY'S OPTION; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(City Manager)*

City Attorney Ansbro read the title of Resolution #2020-131.

Commissioner James noted the backup indicated a new fire station was not feasible and asked what we are doing with that funding to ensure we are addressing the need from an increase in service calls. She wanted to know what the plan is to address our growing community.

City Manager Garcia explained there was a previous agreement with Dania Pointe to have a police substation; a fire station was cost prohibitive and we need to take a look at density. The game plan is to add to the existing personnel or equipment or take steps for a future substation. We are planning within the next couple of weeks for the opening of the police substation.

Commissioner Brandimarte thought it was a shared substation for fire and police.

City Manager Garcia noted you cannot co-mingle the requirements of police and fire.

Commissioner James motioned to adopt Resolution #2020-131; seconded by Vice-Mayor Odman. The motion carried on the following 5-0 Roll Call vote:

Commissioner Brandimarte	**Yes**	**Vice-Mayor Odman**	**Yes**
Commissioner Harris	**Yes**	**Mayor Lewellen**	**Yes**
Commissioner James	**Yes**		

8. Bids and Requests for Proposals

There were no proposals on this agenda.

9. Public Hearings and Site Plans

City Attorney Ansbro noted he would be addressing an emergency ordinance regarding continuing virtual meetings at the end of the public hearings.

9.1 ORDINANCE #2020-013

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE REQUEST MADE BY THE APPLICANT CCI PROPERTIES 1, INC. TO AMEND CHAPTER 28, ENTITLED "LAND DEVELOPMENT CODE," OF THE CITY CODE OF ORDINANCES BY AMENDING PART 1, ENTITLED "USE REGULATIONS," ARTICLE 105, ENTITLED USE REGULATIONS FOR RESIDENTIAL AND OPEN SPACE ZONING DISTRICTS," AT SECTION 105-220, ENTITLED "PRD-1 DISTRICT SUPPLEMENTAL REGULATIONS;" AMENDING PART 2, ENTITLED "SITE DEVELOPMENT REGULATIONS," ARTICLE 205 ENTITLED "TABULAR SUMMARY OF SITE DEVELOPMENT STANDARDS FOR ALL ZONING DISTRICTS," AT SECTION 205-10(B) "PRD-1 AND MULTIPLE-FAMILY DISTRICTS" IN ORDER TO PROVIDE BONUS DENSITY CRITERIA, INCLUDING, BUT NOT LIMITED TO AFFORDABLE HOUSING; PROVIDING FOR SEVERABILITY; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. **(SECOND READING)** *(Community Development)*

City Attorney Ansbro read the title of Ordinance #2020-013.

Corinne Lajoie, Assistant Director of Community Development, was available for questions regarding the text amendment for Harbor Landings.

Commissioner James asked if this means the only type of projects that can be built are affordable housing.

Assistant Director of Community Development Lajoie said no, but they do have to have an affordable housing component to comply with County requirements.

Attorney Deborah Morshefsky, representing the applicant, noted the proposal is for 15% of the units (42 units) to be affordable housing.

Mayor Lewellen opened the Public Hearing. Seeing as there was no one to speak in favor or opposition, she closed the Public Hearing.

Commissioner Brandimarte motioned to adopt Ordinance #2020-013, on second reading; seconded by Commissioner Harris. The motion carried on the following 5-0 Roll Call vote:

Commissioner Brandimarte	**Yes**	**Vice-Mayor Odman**	**Yes**
Commissioner Harris	**Yes**	**Mayor Lewellen**	**Yes**
Commissioner James	**Yes**		

9.2 ORDINANCE #2020-015 ***Withdrawn***

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, CREATING ARTICLE 826 ENTITLED "HARGER HILLS OAK HAMMOCK TREE PROTECTION OVERLAY" UNDER THE CITY'S LAND DEVELOPMENT CODE (LDC) OF THE CITY OF DANIA BEACH CODE, AND APPROVING THE APPLICATION REQUEST (TX-065-20), MADE BY THE CITY OF DANIA BEACH TO CREATE A ZONING OVERLAY FOR THE GENERAL VICINITY OF THE RESIDENTIAL LOTS ON SW 36 TERRACE, SW 37 AVENUE AND SW 37 TERRACE, STRETCHING FROM STIRLING ROAD NORTH FOR APPROXIMATELY 1,280 LINEAR FEET, TO THE END OF THE STREETS, AND INCLUDES APPROXIMATELY 30 GROSS ACRES AND 74 PARCELS, IN THE CITY OF DANIA BEACH, FLORIDA, WHICH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; PROVIDING FOR AN OAK HAMMOCK TREE PROTECTION OVERLAY FOR THE AREA IDENTIFIED IN ORDER TO PROTECT THE CANOPY OF THIS UNIQUE OAK HAMMOCK FOREST COMMUNITY, SUBJECT TO CERTAIN STANDARDS AND RESTRICTIONS; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. **(FIRST READING)** *Community Development)*

City Attorney Ansbro read the title of Ordinance #2020-015 and noted at his direction, staff is withdrawing this item to allow them to provide a comprehensive public notification of the proposed Tree Protection Overlay amendments to both residents in the proposed overlay, as well as to property owners within a 450' radius of the proposed overlay.

Commissioner Brandimarte asked if the City has ever done this for one particular area.

City Attorney Ansbro responded no and explained the unique nature of this area, for which the residents have reached out to the City to protect.

Mayor Lewellen opened the Public Hearing.

Stephanie Jofe, 5880 SW 37th Terrace, spoke in support of the ordinance.

Michelle Nadel, 5861 SW 37th Terrace, spoke in support of the overlay ordinance, and noted the recent removal of trees and shrubs that this ordinance would have protected. She also addressed recent flooding in her neighborhood and hopes the City can assist with replacing the removed trees.

Sarah Levtov, 5960 SW 37 Terrace, spoke about hazardous trees on or near her property that arborists recommended be removed. Having the State law allows her and her neighbors to keep their property safe; the ordinance would inhibit this.

Shira Sipper, 5921 SW 36th Terrace, spoke about the tree ordinance. She loves the trees, but many are dangerous and she felt there is nothing wrong with removing trees and replacing them.

Mayor Lewellen noted this item would come up again when the revised ordinance is brought back.

Michael Jofe, 5880 SW 37th Terrace, addressed several issues raised about this ordinance; it would allow removal of a hazardous tree.

Rod Feiner, Coker and Feiner, representing the contract purchaser of the property where the trees were recently removed, spoke about the virtual community meeting held last evening. He noted the tree removal was done pursuant to law.

Seeing as there was no one else to speak in favor or opposition, Mayor Lewellen closed the Public Hearing.

City Attorney Ansbro noted the revised ordinance would be heard by the Planning and Zoning Board and suggested all those residents with concerns should stay informed and attend the meeting.

Commissioner James questioned having a sunshine meeting regarding the trees.

City Attorney Ansbro noted Community Development could work towards hosting a community meeting where the Commissioners could be invited.

9.3 ORDINANCE #2020-016

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA APPROVING AN APPLICATION TO VACATE AN EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 12185, PAGE 710 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA ("EASEMENT"), (VC-064-20) SUBMITTED BY HSQ GROUP, INC. ON BEHALF OF THE PROPERTY OWNER, DAVID OPTEKAR, WHICH EASEMENT WAS GRANTED TO THE CITY OF DANIA BEACH FOR ROAD AND OTHER RELATED PURPOSES AND GENERALLY LOCATED SOUTH OF WEST DANIA BEACH BOULEVARD WEST OF SW 8TH AVENUE, WITHIN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT A, A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. **(FIRST READING)** *(Community Development)*

City Attorney Ansbro read the title of Ordinance #2020-016, Resolution #2020-138, and Resolution #2020-139 as they relate to the same property. He advised these items were quasi-judicial hearings and swore-in those who would speak as they came forward. He asked the Commission to disclose any communication they had on these matters.

Corinne Lajoie, Assistant Director of Community Development, gave a presentation on the vacation, site plan, variance, and plat requests for Saratoga Crossings III.

Nectaria Chakas, Lochrie & Chakas, representing developer Atlantic Pacific Communities, gave a PowerPoint presentation which is attached to and incorporated into these minutes.

Commissioner James noted her major concern is that this would box in the developments there and the drainage issues would be magnified. She asked if the drainage could be tied in to City drainage pipes.

Attorney Chakas noted there is no existing drainage system to tie into, although the City is working on its master plan. Sites are not allowed to drain into the street, but must retain the stormwater onsite.

Commissioner James asked about the community outreach.

Attorney Chakas responded everyone was supportive of the project.

Mayor Lewellen opened the Public Hearings.

Rev. Paul Wiggins, 215 NW 5th Avenue, questioned the marketing plan regarding one-bedroom units and noted he did not see anything indicating family.

Attorney Chakas explained this was intended to be for single occupants, although three occupants per unit would be allowed.

Vice-Mayor Odman noted it was explained to her that Saratoga I and II have a number of two and three bedroom units to accommodate families, and the demand was for one-bedroom units.

Attorney Chakas confirmed this is geared for single occupants. This would add 75 one-bedroom units to affordable housing.

Commissioner James noted her major concern is that every month and often weekly, she receives complaints about towing at Saratoga Crossings. She would like to know how Atlantic Pacific Communities is addressing this concern expressed to her about management of their properties.

Attorney Chakas explained they have relaxed their towing policy on weekends; there are certain rules that Atlantic Pacific would like to be enforced.

Commissioner James asked about the relationship with the Housing Authority.

Attorney Chakas responded the Housing Authority would own the property and Atlantic Pacific would manage the project.

Commissioner Brandimarte noted she is happy to see someone come in with one-bedroom units. The Saratoga development is beautiful.

Seeing as there was no one else to speak in favor or opposition, Mayor Lewellen closed the Public Hearings.

Commissioner Harris motioned to adopt Ordinance #2020-016, on first reading; seconded by Commissioner James. The motion carried on the following 5-0 Roll Call vote:

Commissioner Brandimarte	**Yes**	**Vice-Mayor Odman**	**Yes**
Commissioner Harris	**Yes**	**Mayor Lewellen**	**Yes**
Commissioner James	**Yes**		

9.4 RESOLUTION #2020-138

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE SITE PLAN (SP-059-20), SUBMITTED BY HSQ GROUP, INC. ON BEHALF OF THE PROPERTY

OWNER, DAVID OPTEKAR FOR PROPERTY LOCATED AT 840 & 850 WEST DANIA BEACH BOULEVARD AND OTHER ADJACENT PARCELS IN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; APPROVING A VARIANCE (VA-068-20) FROM SECTION 307-20 TO WAIVE THE SPECIFIED CRA STREET SECTIONS; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Community Development)*

Commissioner Harris motioned to adopt Resolution #2020-138; seconded by Vice-Mayor Odman. The motion carried on the following 5-0 Roll Call vote:

Commissioner Brandimarte	**Yes**	**Vice-Mayor Odman**	**Yes**
Commissioner Harris	**Yes**	**Mayor Lewellen**	**Yes**
Commissioner James	**Yes**		

9.5 RESOLUTION #2020-139

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE PLAT APPLICATION "SARATOGA CROSSINGS III" (PL-057-20) SUBMITTED BY HSQ GROUP, INC., ON BEHALF OF DAVID OPTEKAR AND OUR HOUSE IN DANIA, INC., FOR PROPERTY LOCATED AT 840 AND 850 W. DANIA BEACH BOULEVARD, IN THE CITY OF DANIA BEACH, FLORIDA, THE LEGAL DESCRIPTION IS CONTAINED IN EXHIBIT "A", A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; PROVIDING FOR CONFLICTS; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Community Development)*

Commissioner Harris motioned to adopt Resolution #2020-139; seconded by Commissioner James. The motion carried on the following 5-0 Roll Call vote:

Commissioner Brandimarte	**Yes**	**Vice-Mayor Odman**	**Yes**
Commissioner Harris	**Yes**	**Mayor Lewellen**	**Yes**
Commissioner James	**Yes**		

9.6 RESOLUTION #2020-140

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING A SPECIAL EXCEPTION (SE-074-20) TO ALLOW FOR ACADEMIC SCHOOL USE PURSUANT TO A REQUEST SUBMITTED BY LEE RASKIND, ON BEHALF OF HOLLYWOOD PLAYGROUP LLC, FOR PROPERTY LOCATED AT 3201 GRIFFIN ROAD IN THE CITY OF DANIA BEACH, FLORIDA; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Community Development)*

City Attorney Ansbro read the title of Resolution #2020-140 and noted this item was a quasi-judicial hearing and he would swear-in those who would speak as they came forward. He asked the Commission to disclose any communication they had on this matter.

Corinne Lajoie, Assistant Director of Community Development, gave an overview of the special exception request.

Mayor Lewellen opened the Public Hearing. Seeing as there was no one to speak in favor or opposition, she closed the Public Hearing.

Commissioner James motioned to adopt Resolution #2020-140; seconded by Commissioner Harris. The motion carried on the following 5-0 Roll Call vote:

Commissioner Brandimarte	**Yes**	**Vice-Mayor Odman**	**Yes**
Commissioner Harris	**Yes**	**Mayor Lewellen**	**Yes**
Commissioner James	**Yes**		

City Attorney Ansbro gave a background to the emergency ordinance to extend virtual meetings, and noted the Governor will likely not extend virtual meetings. He had been discussing this with Vice-Mayor Odman in light of the fact that COVID is on the increase. Other cities are doing similar measures; our concern is to protect the elected officials, staff and the public. This would allow us to continue virtual meetings for 90 days. He recommended adoption of the emergency ordinance.

Mayor Lewellen confirmed this would give us the option to continue virtual meetings; Fort Lauderdale had a large outbreak of positive individuals after opening their City Hall.

Vice-Mayor Odman thanked City Attorney Ansbro and Assistant City Attorney Boutsis for acting quickly on this matter. She is trying to avoid the situation in Fort Lauderdale; none of us should have to give out health information as to who is most high risk. This ordinance addresses this and solves that issue. She encouraged the Commission to adopt the ordinance.

Commissioner Brandimarte noticed the Chamber is set up for the meeting but appears to only allow five people to sit in the room.

Assistant City Attorney Boutsis noted there are 12 seats to ensure six feet distance, which is set up for the Special Magistrate hearing Thursday morning.

EMERGENCY ORDINANCE NO. 2020-017

AN EMERGENCY ORDINANCE OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZED BY A 2/3 VOTE OF THE CITY COMMISSION TO WAIVE THE REQUIREMENTS OF THE CITY CHARTER, ARTICLE 3, SECTION 3, AS TO NOTICE AND REQUIREMENTS FOR NONEMERGENCY ORDINANCES; AUTHORIZING THE CITY MANAGER TO MAKE PROVISIONS FOR PUBLIC MEETINGS BY USE OF COMMUNICATION MEDIA TECHNOLOGY AND FOR ATTENDANCE BY USE OF SUCH TECHNOLOGY BY ELECTED AND APPOINTED OFFICIALS DURING PERIODS WHEN THE CITY MANAGER DETERMINES AND DECLARES A LOCAL PUBLIC HEALTH EMERGENCY OR OTHER CIRCUMSTANCES IN WHICH THE CITY COMMISSION DETERMINES IT IS NECESSARY TO PROTECT THE HEALTH AND SAFETY OF CITY OFFICIALS, CITY STAFF, AND THE PUBLIC, FOR A 90 DAY PERIOD; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

City Attorney Ansbro read the title of Emergency Ordinance #2020-017 and provided further explanation; this would also accommodate board meetings.

Commissioner James motioned to adopt Emergency Ordinance #2020-017; seconded by Commissioner Brandimarte. The motion carried unanimously.

10. Discussion and Possible Action

10.1 Notice requirements - Mayor Lewellen

Mayor Lewellen felt the distance for notification should be extended farther out depending upon the size and nature of the project; she felt 1,000 feet would be an improvement.

Discussion ensued regarding the distance.

The Commission consensus was to move forward with extending the distance of notification to 1,000 feet.

10.2 Rental relief for small businesses - Mayor Lewellen

Mayor Lewellen said she knows the CARES Act money is available. She would like to see if there is something we could do regarding rental assistance for businesses.

Assistant City Manager Sosa-Cruz explained Broward County would be opening up their two programs, rental assistance to small businesses and residential assistance program. City staff is requesting to send a letter to the County administrator, Bertha Henry, for the County to administer our CARES funds allocated to the City of Dania Beach. We would like to allocate $500,000 for small business assistance and $500,000 for residential assistance program under the small business assistance program. Federally, $25 million dollars has been allocated to the small business assistance and $10 million for the not-for-profit programs. We have drafted a letter to the County Administrator for Broward County to administer these programs. Regarding the County program, there is no maximum amount cap and it would go back to March. The tenant applies and the landlord receives the check. Staff would like Commission consensus to allow Broward County to administer the program, which is strictly for the CARES Act funding. This has nothing to do with the $500,000 budgeted for the City and CRA. Staff feels this is the best option at this point.

Frank DiPaolo, Director of Finance, said the key here is that if the City does not use this money, it will be unspent and returned to the Federal Government, or it could be reallocated to other cities in the County. The County wants to know as soon as possible. This is fastest way to get the money in people's hands.

Mayor Lewellen felt this is the best way to handle this; we need to be sure our businesses and residents are aware of the program so they take advantage of it. She suggested perhaps a mailing or a hotline be set up to help them walk through the process.

City Manager Garcia noted we can go through the BTR and Code Red to ensure those that need it that the funding is there. The letter is ready to go and staff is requesting the Commission's support.

Commissioner James asked if the County has continued to administer the CARES Act funding for the cities or do we have a plan B ready to go.

Assistant City Manager Sosa-Cruz said the County has the capacity to handle the programs for the other six cities that have signed up; the portal has not opened up for either program. They have hired additional employees, have streamlined the program, and have more money than people are requesting. The small business program is for any business that has not received any previous federal assistance by either not qualifying or applying. The residential assistance program allows tenants to self-certify their income to streamline the program to try to get the money to people and businesses as fast as possible.

Commissioner James wanted to be sure we have something in line if the County does not have the capacity to do it.

The Commission consensus was to move forward with the County administering the programs.

10.3 Key to the City request from Commissioner James

Commissioner James noted she would like to present a Key to the City to Commissioner Brandimarte for her many years of service to the community and requested the Commission's approval.

The Commission consensus was to approve the Key to the City request.

Addendum

10.4 Harger Hills neighborhood - Commissioner Harris

Commissioner Harris felt we should postpone this item until the sunshine meeting is held.

11. Commission Comments

11.1 Commissioner Brandimarte

Commissioner Brandimarte noted people are telling her that they call City Hall regarding permits and no one is answering.

City Manager Garcia said telephone numbers would be posted to ensure residents have the correct contact information.

11.2 Commissioner Harris

Commissioner Harris thanked BSO and Walmart staff for the recent drug take-back event.

Commissioner Harris noted the County Commission recommended the School Board provide a waiver for school impact fees for affordable housing.

11.3 Commissioner James

Commissioner James had no comments.

11.4 Vice-Mayor Odman

Vice-Mayor Odman noted she has had good feedback on the reporting app, and asked if there is an opportunity to allow for notifications, not necessarily the Code Red type.

Assistant City Manager Sosa-Cruz said the website has notifications that residents can sign up for; he is meeting with IT tomorrow to explore the capabilities on the reporting app.

11.5 Mayor Lewellen

Mayor Lewellen felt the mailers are still helpful and noted when she hears from residents about an issue, she tells them about the reporting app.

Mayor Lewellen noted she talked to CRA Interim Director Weekes about neighborhood entryway signage. She suggested any neighborhood that does not have a sign be included and we get them a sign.

City Manager Garcia felt we should be transparent and bring this matter back with a Resolution to take funding from Commission contingency.

Assistant City Manager Sosa-Cruz noted we need funds to relocate two previous signs on East Dania Beach Boulevard and Sheridan Street.

City Manager Garcia responded we will bring separate items for the additional signs and for the relocation of the two signs.

Mayor Lewellen encouraged early voting.

12. Appointments

12.1 Dania Beach Housing Authority

Mayor Lewellen appointed Ruth White for a term beginning November 1, 2020 and ending October 31, 2024.

12.2 General Employees Pension Board – no appointments

12.3 Green Advisory Board – no appointments

Commissioner Harris motioned to approve the appointment of Ruth White to the Dania Beach Housing Authority; seconded by Vice-Mayor Odman. The motion carried on the following 4-1 Roll Call vote:

Commissioner Brandimarte	**Yes**	**Vice-Mayor Odman**	**Yes**
Commissioner Harris	**Yes**	**Mayor Lewellen**	**Yes**
Commissioner James	**No**		

13. Administrative Reports

13.1 City Manager

City Manager Garcia noted in light of the uptick in COVID and what has happened in Fort Lauderdale, we would like to shift gears and open City Hall on Monday, November 30th instead of opening on November 2. She gave an update on the opening of our parks and noted all 40 signs have been landscaped.

13.2 City Attorney

City Attorney Ansbro noted the CRA Executive Director contract was drafted and sent out to the Commission with a term of employment of one year; however, the term was represented to the candidate selected as being for two years. He requested confirmation that a two-year term is acceptable.

The Commission consensus was to make the initial term of the contract two years.

13.3 City Clerk - Reminders

Tuesday, November 10, 2020 - 5:30 p.m.	CRA Board Meeting
Tuesday, November 10, 2020 - 7:00 p.m.	City Commission Meeting
Monday, November 16, 2020 - 6:00 p.m.	Organization Meeting

14. Adjournment

Mayor Lewellen adjourned the meeting at 10:30 p.m.

ATTEST: CITY OF DANIA BEACH

THOMAS SCHNEIDER, CMC
CITY CLERK

LORI LEWELLEN
MAYOR

MINUTES OF VIRTUAL REGULAR MEETING
DANIA BEACH CITY COMMISSION
TUESDAY, NOVEMBER 10, 2020 – 7:00 P.M.

1. Call to Order/Roll Call

Mayor Lewellen called the meeting to order at 7:00 p.m.

Present:

Mayor:	Lori Lewellen
Vice-Mayor:	Lauren Odman
Commissioners:	Chickie Brandimarte
	Bill Harris
	Tamara James
City Manager:	Ana M. Garcia, ICMA-CM
City Attorney:	Thomas Ansbro
City Clerk:	Thomas Schneider

2. Moment of Silence and Pledge of Allegiance

Mayor Lewellen called for a moment of silence after the Pledge of Allegiance to the United States Flag.

3. Presentations and Special Event Approvals

3.1 Veterans Day Presentation - Mayor Lewellen

Mayor Lewellen presented Certificates of Special Recognition to City of Dania Beach residents who are veterans: Robert Anton, Al Arnold, Norman Ball, James Beaver, Jimmie Burton, Victor Cinelli, A. Ivie Cure, Carol Hemmis, Leslie Kevles, Richard Pace, Richard Richter, Raymond Snow, John Vazquez, and David Wilson. She thanked the residents for their service to the country and community.

3.2 City-wide Street Lighting Improvement Project Presentation - Fernando J. Rodriguez, Public Services Director and Dr. Fred Bloetscher

This item was taken up immediately after Item 5.

Public Services Director Rodriguez and Dr. Bloetscher gave a PowerPoint presentation which is attached to and incorporated into these minutes.

Discussion ensued regarding LED versus sodium vapor lights placed on FPL poles, outreach to the neighborhoods, and the projected timeline for bidding and installation.

4. Proclamations

4.1 Veterans and Military Families Month - Vice-Mayor Odman

Vice-Mayor Odman read the Veterans and Military Families Month proclamation.

5. Citizen Comments

Evan Snow, 301 SW 1st Avenue, #2009, Fort Lauderdale and Stacey Brown, both with 1000 Mermaids Project, were available for questions.

Mayor Lewellen returned to Citizen Comments immediately after Item 3.2.

Elias Bichachi, 5910 SW 37th Avenue, questioned the battery life and warranty on solar lights.

Director of Public Services Rodriguez explained the life expectancy of the batteries.

Kayri Pozo, 1101 W. Dania Beach Boulevard, questioned if the residents would be notified about the project, and whether there would be tree trimming.

Director of Public Services Rodriquez noted the residents would be informed as the project progresses and tree trimming would only occur on public right-of-way.

6. Public Safety Reports

Captain Daniel Marks, BSO Chief of Police, commented on the teamwork in the City responding to the recent flooding and reported on recent criminal activity in the City.

Captain Sergio Pellecer, BSO District Fire Chief, gave an update on his department's precautions taken to ensure the safety of our residents and the departmental teamwork in the City. He noted the Firefighter of the Year award will be presented at the next Commission meeting and he is working on a toy giveaway.

7. Consent Agenda

7.1 Minutes:
Approve Minutes of October 13, 2020 Virtual City Commission Meeting

7.2 Travel Requests: None

Resolutions

7.3 Motion to authorize substitution of Brightline Trains Florida LLC for Virgin Trains USA Florida LLC for contract between City and Brightline for construction of supplemental safety improvements at selected railroad crossings in the City *(City Attorney)*

7.4 Motion to approve a payment to the City of Hollywood for improperly billed sewer charges *(Finance)*

7.5 RESOLUTION #2020-141

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, REQUESTING ADVANCE APPROVAL FROM THE CITY COMMISSION TO PROCEED WITH THE BID ADVERTISEMENT FOR THE CITYWIDE STREETLIGHTING IMPROVEMENT PROJECT; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services)*

7.6 RESOLUTION #2020-142

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE EXPENDITURE OF FUNDS BY VARIOUS CITY DEPARTMENTS FOR SERVICES TO BE PURCHASED FROM DECOTA CONSTRUCTION INC. FOR VARIOUS CONSTRUCTION PROJECTS FOR THE FISCAL YEAR ENDING ON SEPTEMBER 30, 2021, THAT WILL EXCEED AN ANNUAL VENDOR TOTAL AMOUNT OF TWENTY-FIVE THOUSAND DOLLARS ($25,000.00); AUTHORIZING SUCH PURCHASES TO BE MADE WITHIN THE RESPECTIVE DEPARTMENTS' APPROVED ANNUAL BUDGET APPROPRIATIONS; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services)*

7.7 RESOLUTION #2020-143

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE EXPENDITURE OF UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000.00) TOWARDS THE INSTALLATION OF AN ARTISTIC ARTIFICIAL REEF ALONG DANIA BEACH'S BEACHFRONT; EXECUTING AN AGREEMENT WITH 1000 MERMAIDS PROJECT CORP. RELATED TO THE DESIGN, CONSTRUCTION AND INSTALLATION OF THE ARTIFICIAL REEF, AND TO PROVIDE EDUCATIONAL OPPORTUNITIES TO THE COMMUNITY RELATING TO REEFS AND PROTECTION OF REEFS; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(City Manager)*

7.8 RESOLUTION #2020-144

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE ADOPTION OF A FUNDING POLICY FOR THE OTHER POST EMPLOYMENT BENEFITS ("OPEB") TRUST; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR A RETROACTIVE EFFECTIVE DATE. *(Finance)*

Commissioner James motioned to adopt the Consent Agenda; seconded by Vice-Mayor Odman. The motion carried unanimously.

8. Bids and Requests for Proposals

There were no proposals on this agenda.

9. Public Hearings and Site Plans

9.1 ORDINANCE #2020-016

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA APPROVING AN APPLICATION TO VACATE AN EASEMENT RECORDED IN OFFICIAL RECORDS BOOK 12185, PAGE 710 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA ("EASEMENT"), (VC-064-20) SUBMITTED BY HSQ GROUP, INC. ON BEHALF OF THE PROPERTY OWNER, DAVID OPTEKAR, WHICH EASEMENT WAS GRANTED TO THE CITY OF DANIA BEACH FOR ROAD AND OTHER RELATED PURPOSES AND GENERALLY LOCATED SOUTH OF WEST DANIA BEACH BOULEVARD WEST OF SW 8TH AVENUE, WITHIN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT A, A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. **(SECOND READING)** *(Community Development)*

City Attorney Ansbro read the title of Ordinance #2020-016, and advised this item was a quasi-judicial hearing and he would swear-in those who would speak as they came forward. He asked the Commission to disclose any communication they had on this matter.

Corinne Lajoie, Planning & Zoning Manager, was available to answer questions.

Mayor Lewellen opened the Public Hearing. Seeing as there was no one to speak in favor or opposition, she closed the Public Hearing.

Commissioner James motioned to adopt Ordinance #2020-016, on second reading; seconded by Vice-Mayor Odman. The motion carried on the following 5-0 Roll Call vote:

Commissioner Brandimarte	**Yes**	**Vice-Mayor Odman**	**Yes**
Commissioner Harris	**Yes**	**Mayor Lewellen**	**Yes**
Commissioner James	**Yes**		

9.2 RESOLUTION #2020-145

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, PURSUANT TO SECTION 670-10(3), OF CHAPTER 28, OF THE CITY'S CODE, EXTENDING ZONING IN PROGRESS (ENACTED UNDER RESOLUTION NO. 2020-094) THROUGH JANUARY 31, 2021; EXTENDING THE DECLARATION THAT THE CITY IS CONSIDERING AN AMENDMENT TO ITS LAND DEVELOPMENT REGULATIONS TO CREATE A ZONING OVERLAY DISTRICT, TO CREATE ARTICLE 826 TO BE ENTITLED "HARGER HILLS OAK HAMMOCK TREE PROTECTION OVERLAY" UNDER THE CITY'S LAND DEVELOPMENT CODE (LDC). OF THE CITY OF DANIA BEACH CODE, AND APPROVING THE APPLICATION REQUEST (TX-065-20), MADE BY THE CITY OF DANIA BEACH TO CREATE A ZONING OVERLAY FOR THE GENERAL VICINITY OF THE RESIDENTIAL LOTS ON SW 36 TERRACE, SW 37 AVENUE AND SW 37 TERRACE, STRETCHING FROM STIRLING ROAD NORTH FOR APPROXIMATELY 1,280 LINEAR FEET, TO THE END OF THE STREETS, AND INCLUDES APPROXIMATELY 40 GROSS ACRES AND 74 PARCELS, IN THE CITY OF DANIA BEACH, FLORIDA, WHICH PROPERTY IS LEGALLY

DESCRIBED IN AMENDED EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; PROVIDING FOR AN OAK HAMMOCK TREE CANOPY OVERLAY FOR THE AREA IDENTIFIED IN ORDER TO PROTECT THE HISTORIC HERITAGE TREE CANOPY OF THIS OAK HAMMOCK, SUBJECT TO CERTAIN STANDARDS AND RESTRICTIONS; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Community Development)*

City Attorney Ansbro read the title of Resolution #2020-145.

Mayor Lewellen noted there is a meeting about this on Thursday and questioned why this item is on the agenda.

Eve Boutsis, Assistant City Attorney, explained the reason for the extension of the Zoning in Progress and what it means for the area under consideration. This gives us time to bring the ordinance forward for first and second readings, with the proper advertising.

Mayor Lewellen opened the Public Hearing.

Dr. Stephanie Jofe, 5880 SW 37th Terrace, spoke in support of the zoning overlay district.

Dr. Michael Jofe, 5880 SW 37th Terrace, spoke in support of the zoning overlay district and addressed residents' concerns.

Harvey J. Sepler, 5840 S.W. 37th Terrace, also spoke in support of the proposed Harger Hills overlay district.

Jim Rizzo, 5821 SW 37th Avenue, spoke in favor of extending the Zoning in Progress.

Elias Bichachi, 5910 SW 37th Avenue, spoke in favor of the zoning overlay ordinance.

Sean Ritterman, 5881 SW 36th Terrace, requested these items be deferred until the new Commission and Planning & Zoning Board are seated. He added his property is not part of Harger Hills, yet is included in the proposed overlay district, and spoke against the ordinance.

Rabbi Laredo, 5861 SW 36th Terrace, questioned why his and Mr. Ritterman's properties are being included in the overlay district. He also spoke against the ordinance.

Seeing as there was no one else to speak in favor or opposition, Mayor Lewellen closed the Public Hearing.

Commissioner James motioned to adopt Resolution #2020-145; seconded by Vice-Mayor Odman. The motion carried on the following 5-0 Roll Call vote:

Commissioner Brandimarte	**Yes**	**Vice-Mayor Odman**	**Yes**
Commissioner Harris	**Yes**	**Mayor Lewellen**	**Yes**
Commissioner James	**Yes**		

10. Discussion and Possible Action

10.1 Key to the City request from Mayor Lewellen

Mayor Lewellen noted she would like to present a Key to the City to Commissioner Harris at the November 16th Organization Meeting for his service and dedication to the City.

The Commission consensus was to approve the request for a Key to the City.

11. Commission Comments

11.1 Commissioner Brandimarte

Commissioner Brandimarte thanked the CRA for the flowers and clock.

11.2 Commissioner Harris

Commissioner Harris had no comments.

11.3 Commissioner James

Commissioner James congratulated those who ran for office and who were elected.

Commissioner James noted the Tamara James Foundation will hold a Thanksgiving food drive at the PATCH on November 24th.

11.4 Vice-Mayor Odman

Vice-Mayor Odman had no comments.

11.5 Mayor Lewellen

Mayor Lewellen echoed the sentiments of our BSO Police and Fire Chiefs regarding the teamwork demonstrated during the recent flooding from Tropical Storm Eta. She noted she felt the same way about the Fall Fest.

Mayor Lewellen thanked everyone for allowing her to serve the last two years as Mayor.

12. Appointments

12.1 General Employees Pension Board

12.2 Green Advisory Board

There were no appointments at this meeting.

13. Administrative Reports

13.1 City Manager

City Manager Garcia gave an update on the flooding mitigation pre- and post-storm. She reported we will soon be receiving the key to the new BSO substation in Dania Pointe, and those whose bulk pick-ups were missed on Monday due to the storm will receive a make-up date via Code Red. She noted working with the CRA department, the entryway signage will be relocated into Dania Beach's jurisdiction. Broward County has approved and will be administering the residential rental and business assistance program for our City.

City Manager Garcia noted we have something special planned for the Organization Meeting.

13.2 City Attorney

City Attorney Ansbro had no comments.

13.3 City Clerk - Reminders

Monday, November 16, 2020 - 6:00 p.m.	Organization Meeting
Tuesday, December 8, 2020 - 5:30 p.m.	CRA Board Meeting
Tuesday, December 8, 2020 - 7:00 p.m.	City Commission Meeting

14. Adjournment

Mayor Lewellen adjourned the meeting at 8:24 p.m.

ATTEST:

CITY OF DANIA BEACH

THOMAS SCHNEIDER, CMC
CITY CLERK

LORI LEWELLEN
MAYOR

MINUTES OF ORGANIZATION MEETING
DANIA BEACH CITY COMMISSION
MONDAY, NOVEMBER 16, 2020 – 6:00 P.M.

1. Call to Order/Roll Call

Mayor Lewellen called the meeting to order at 6:05 p.m.

Present:

Mayor:	Lori Lewellen
Vice-Mayor:	Lauren Odman
Commissioners:	Chickie Brandimarte
	Bill Harris
	Tamara James
City Manager:	Ana M. Garcia, ICMA-CM
City Attorney:	Thomas Ansbro
City Clerk:	Thomas Schneider

2. Presentations

2.1 Presentation to Commissioner Brandimarte and Commissioner Harris by City Administration

City Manager Garcia welcomed the newly elected officials, thanked Mayor Lewellen and the current Commission, and presented crystal commemorative awards to Commissioners Brandimarte and Harris as tokens of the City's appreciation.

2.2 Presentation of Key to the City to Commissioner Brandimarte by Mayor-Elect James and Commission

Mayor-Elect James and the Commission presented a Key to the City to Commissioner Brandimarte for her dedicated service to the City of Dania Beach and our seniors, and thanked her for her selfless service.

Vice-Mayor Odman presented a crystal wave award to Commissioner Harris on behalf of the CRA for his dedicated service on the CRA Board.

2.3 Presentation of Key to the City to Commissioner Harris by Mayor Lewellen and Commission

Mayor Lewellen and the Commission presented a Key to the City to Commissioner Harris for his service and dedication to the City of Dania Beach.

3. Acceptance of Certification of General Election

3.1 Motion to accept the General Election results from the Broward County Canvassing Board

Results of the November 3, 2020 Municipal Election:

Mayor:	Tamara James	6,014 votes
Vice-Mayor:	Marco A. Salvino, Sr.	3,547 votes
Commissioner:	Joyce L. Davis	3,327 votes
	Bill Harris	3,241 votes
	Tony Suriani	2,704 votes
	Bobbie H. Grace	2,505 votes

Vice-Mayor Odman motioned to accept the Certification of the General Election results from the Broward County Canvassing Board for the November 3, 2020 Municipal Election; seconded by Commissioner James. The motion carried unanimously.

Commissioner Brandimarte thanked the residents of Dania Beach for allowing her to serve on the City Commission and CRA Board for the past eight years.

Commissioner Harris congratulated the newly elected officials and thanked everyone who supported him. He noted it was an honor to have served for four years, and thanked City staff and departments for their assistance and support. It has been the honor of his life to be an elected official in the City of Dania Beach.

Vice-Mayor Odman noted the Commission is very much like a family and commented on each of her colleagues and on the newly elected officials.

Mayor Lewellen congratulated the newly elect officials and said she is looking forward to working with them. She thanked the outgoing Commissioners and City Administration for their friendship, support and assistance. She has never seen such teamwork as she sees in the City of Dania Beach. She thanked the residents for allowing her to serve as Mayor for the past two years and noted she looks forward to the next two years.

4. Administration of Oath of Office for Newly Elected Officials

4.1 Commissioner-Elect Joyce L. Davis swearing-in by Broward County Judge Florence Taylor Barner, 17th Judicial Circuit Court of Florida

Broward County Judge Florence Taylor Barner administered the Oath of Office to Commissioner-Elect Joyce L. Davis.

Commissioner Davis thanked everyone and her supporters, and noted she will make sure everyone is seen and is heard while she is a Commissioner.

4.2 Vice-Mayor-Elect Marco A. Salvino, Sr. swearing-in by Judge Marina Garcia Wood, 17th Judicial Circuit Court of Florida

Judge Marina Garcia Wood administered the Oath of Office to Vice-Mayor-Elect Marco A. Salvino, Sr.

Vice-Mayor Salvino thanked all of his supporters and noted he looks forward to again contributing to the Commission and to serving the City.

4.3 Mayor-Elect Tamara James swearing-in by Senior Pastor Michael Keith Anderson of New Jerusalem Missionary Baptist Church

Senior Pastor Michael Keith Anderson administered the Oath of Office to Mayor-Elect Tamara James.

Mayor James thanked her family, friends and supporters for their love and assistance during her campaign, and noted she is ready for the hard work that needs to be done.

Commissioners Brandimarte and Harris left the dais.

5. Seating of Elected Officials

Mayor James, Vice-Mayor Salvino and Commissioner Davis took their seats at the dais.

City Attorney Ansbro spoke of the outgoing Commissioners and welcomed the newly elected officials.

Mayor James thanked the City Manager for the special swearing-in ceremony.

City Manager Garcia noted we are ready to make the City move forward.

6. Meeting Schedule

Tuesday, December 8, 2020 - 5:30 p.m.	CRA Board Meeting
Tuesday, December 8, 2020 - 7:00 p.m.	City Commission Meeting

7. Adjournment

Mayor James adjourned the meeting at 7:19 p.m.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Consent Agenda

Continued from:

Requested Action (Identify appropriate Action or Motion)
Request from City Manager Ana M. Garcia to attend the Florida City County Manager's Association (FCCMA) 2021 Winter Institute in Cocoa Beach, Florida on February 3-5, 2021 (Estimated cost $813.50)

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
Travel Request - City Manager Ana M Garcia to FCCMA 2021 Winter Institute Hilton Cocoa Beach Ocean from Feb 3-5, 2021

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

CITY OF DANIA BEACH
OFFICE OF THE CITY MANAGER

MEMORANDUM

DATE: December 8, 2020

TO: Mayor Tamara James
Vice Mayor Marco A. Salvino, Sr.
Commissioner Joyce L. Davis
Commissioner Lori Lewellen
Commissioner Lauren Odman

FROM: Ana M. Garcia, ICMA-CM, City Manager

SUBJECT: Travel request to attend the FCMA 2021 Winter Institute February 3-5, 2021 Cocoa Beach, FL

REQUEST:

A request for approval to attend the FCCMA 2021 Winter Institute in Cocoa Beach, FL February 3-5, 2021. Due to the challenges with the COVID-19 Pandemic the conference may be held virtually. The travel request is being brought forward for your approval in case in person meetings are allowed at that time.

BACKGROUND:

The Florida City County Manager's Association (FCCM) 2021 Winter Institute will be held in Cocoa Beach, Florida. This conference is an opportunity for City Managers to enhance leadership skills, learn from municipal experts, share ideas with peers and discuss strategies. As a credentialed manager this conference is an opportunity to earn mandatory yearly professional continuing educational credits.

BUDGETARY IMPACT:

The budgetary impact to travel for the conference is estimated at $813.50. Funding is available in the City Manager's GL account 001-1201-512-40-10.

RECOMMENDATION:

City Commission approval of travel to attend the FCCMA 2021 Winter Institute.

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

City of Dania Beach
Travel Authorization Form

TRAVELER'S NAME: Ana M. Garcia

DEPARTMENT: City Manager

TRAVELER'S POSITION: City Manager

DESTINATION: Cocoa Beach, FL

PURPOSE OF TRAVEL: Attend FCCMA 2021 Winter Institute

DATES OF TRAVEL: 2/3/2021 TO 2/5/2021

ACCOUNT NO: 001-12-01-512-40-10

MODE OF TRAVEL:

- ☐ Personal Vehicle
- ☑ City Vehicle
- ☐ Rental Vehicle
- ☐ Airplane
- ☐ Other

Estimated Costs:

ITEM	DESCRIPTION				TOTAL
Registration Fee:	FCCMA				$ 290.00
Lodging (# of nights x rate):	Hilton Cocoa Beach	2	x	$ 171.00	$ 342.00
Parking (# of nights x rate):	Hilton Cocoa Beach	2	x	$ 4.50	$ 9.00
Tolls & Gas:	Estimate				$ 30.00
Meals (Per Diem):	Per Diem Calculator and GSA Per Diem Rate attached				$ 142.50
				TOTAL ESTIMATED EXPENSES	**$813.50**

Traveler's Signature: [signature] **Date:** 11/12/20

Director's Signature: **Date:**

City Manager's Signature: [signature] **Date:** 11/12/20

Finance Reviewer's Signature: Tania Stevens Digitally signed by Tania Stevens DN: cn=Tania Stevens, o=City of Dania Beach, ou=Finance, email=tstevens@daniabeachfl.gov, c=US Date: 2020.11.16 09:17:09 -05'00' **Date:**

Finance Approver's Signature: Adam Segal CPA Digitally signed by Adam Segal CPA DN: cn=Adam Segal CPA, o=City of Dania Beach, ou=Finance Dept., email=asegal@daniabeachfl.gov, c=US Date: 2020.11.16 09:40:07 -05'00' **Date:**

Stevens, Tania

From: Lottier, Christine
Sent: Friday, November 6, 2020 12:51 PM
To: Stevens, Tania
Subject: Additional for CM Travel Request FW: Order Confirmation

Importance: High

Hi Tania,

Please see below for he email confirmation of payment for CM FCCMA 2021 Winter Institute travel request.

Thank you, stay safe and have a great day!

Christine Lottier
Executive Assistant| City of Dania Beach
clottier@daniabeachfl.gov | daniabeachfl.gov
100 W Dania Beach Blvd. | Dania Beach, FL 33004
Phone: 954-924-6800 ext. 3606 | **Fax:** 954-921-2604

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

Web: daniabeachfl.gov | **FB:** cityofdaniabeach | **Twitter:** @DaniaBeachFL
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Please note: Florida has a very broad public records law. Most written communications to or from City Officials regarding City business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure.

From: memberservices@flcities.com <memberservices@flcities.com>
Sent: Friday, November 6, 2020 12:48 PM
To: Lottier, Christine <clottier@daniabeachfl.gov>
Subject: Order Confirmation

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Order Confirmation

Here are the details of your order. Please retain this email for your records.

Order Number: 85036
Order Date: Nov 6, 2020 12:46 PM
Bill To: Ana M. Garcia, ICMA-CM
Order Total: 290.00
Payment Method: Visa **********2569
Name on Card: Christine Lottier

Item	Price	Qty	Total
FCCMA 2021 Winter Institute - Ana M. Garcia, ICMA-CM *When:* Feb 4, 2021 9:00 AM - Feb 5, 2021 12:00 PM *Where:* Hilton Cocoa Beach Oceanfront 1550 N. Atlantic Ave. Cocoa Beach, FL 32931 *Registration option:* Feb 4, 2021 9:00 AM - Registration Fee	290.00	1	290.00

Item Total	290.00
Shipping	0.00
Handling	0.00
Item Grand Total	290.00
Transaction Grand Total	290.00

You are receiving this communication from the Florida League of Cities or on behalf of one of its affiliated organizations, including: Florida Association of City Clerks, Florida City and County Management Association, Florida Government Finance Officers Association, Florida Local Government Information Systems Association, Florida League of Mayors, Florida Municipal Attorneys Association, Florida Municipal Communicators Association, Florida Municipal Insurance Trust, and Florida Redevelopment Association.

Stevens, Tania

From: Carol Russell <crussell@flcities.com>
Sent: Wednesday, November 4, 2020 1:58 PM
To: Lottier, Christine
Subject: RE: Question please regarding the FCCMA 2021 Winter Institute
Attachments: Draft Agenda - Updated.docx

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

This is not yet finalized but attached is a draft agenda. Yes, continental breakfast on Thursday, lunch on Thursday and full breakfast on Friday are included.

Thank you,

Carol

Carol Russell
Executive Assistant
Florida City and County Management Association
P.O. Box 1757
Tallahassee, FL 32302
(850) 701-3607

FLC FLORIDA LEAGUE OF CITIES | LOCAL VOICES MAKING LOCAL CHOICES

From: Lottier, Christine <clottier@daniabeachfl.gov>
Sent: Wednesday, November 4, 2020 12:45 PM
To: Carol Russell <crussell@flcities.com>
Subject: Question please regarding the FCCMA 2021 Winter Institute
Importance: High

Hi Carole,

I hope all is well. I will be registering City Manager Garcia for the FCCMA 2021 Winter Institute and will need to prepare a travel request. Can you provide an agenda for the event, I looked on the website and it looks like it starts on February 4th at 9am and ends the next day, February 5th at 12pm. Also can you let me know if there will be any meals included in the $290.00 registration fee.

Thank you, stay safe and have a great day!

Christine Lottier
Executive Assistant| City of Dania Beach
clottier@daniabeachfl.gov | daniabeachfl.gov
100 W Dania Beach Blvd. | Dania Beach, FL 33004
Phone: 954-924-6800 ext. 3606 | **Fax:** 954-921-2604

Web: daniabeachfl.gov | **FB:** cityofdaniabeach | **Twitter:** @DaniaBeachFL
Youtube: DaniaBeachTV | **Enews:** /enews | **Emergency Notifications:** CodeRED
Please note: Florida has a very broad public records law. Most written communications to or from City Officials regarding City business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure.

From: Garcia, Ana <agarcia@daniabeachfl.gov>
Sent: Tuesday, November 3, 2020 11:11 AM
To: Lottier, Christine <clottier@daniabeachfl.gov>
Subject: Fwd: FCCMA 2021 Winter Institute

Hi Chris please register me for the winter institute thank you.

Sent from my iPhone

Begin forwarded message:

> **From:** Florida City and County Management Association <crussell@flcities.com>
> **Date:** November 3, 2020 at 9:44:50 AM EST
> **To:** "Garcia, Ana" <agarcia@daniabeachfl.gov>
> **Subject: FCCMA 2021 Winter Institute**
> **Reply-To:** crussell@flcities.com
>
> ****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

FCCMA 2021 Winter Institute

November 3, 2020

FCCMA 2021 Winter Institute
February 4-5, 2021
Hilton Cocoa Beach Oceanfront
1550 N. Atlantic Avenue, Cocoa Beach

Registration open for full members only.

The FCCMA Winter Institute is an intense, interactive workshop for Florida's city and county managers and assistants. The cost for the training is $290 per person. Space is limited. Registration is not final until payment is received. Cancellations received prior to January 25 will receive a refund; however, a $25 administrative fee will be charged. No refunds will be given after the deadline, but other FCCMA members may be substituted to fill the slot.

Please note: While we are planning for an in-person event, we may transition to a virtual event.

Register Here

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Dania Beach CRA
Travel Per Diem Calculator

Traveler's Name: Ana M. Garcia

Description of Trip: Attend FCCMA 2021 Winter Institute

Destination: Cocoa Beach, FL

Daily M&IE for FY 2021: **$ 71.00**

Meal Exclusions		
Date	**Meal**	**Amount**
4-Feb-21	Breakfast	$ 17.00
4-Feb-21	Lunch	$ 18.00

First Date of Travel: 2/3/2021

Last Date of Travel: 2/5/2021

	Travel		**Travel**				
	WED	THU	FRI				
Date	**3-Feb-21**	**4-Feb-21**	**5-Feb-21**				
Breakfast ($16)		$ -					
Lunch ($17)		$ -					
Dinner ($28)		$ 31.00					
Incidental ($5)		$ 5.00					
Total Daily total =	**$ 53.25**	$ 36.00	**$ 53.25**				

Travel Days Pro-rated at 75% of M&IE **$ 53.25**

Total Per Diem Due to Traveler **$ 142.50**

Domestic Meals and Incidental Expenses (M&IE) Breakdown for Federal FY 2021					
M&IE Total	**Breakfast**	**Lunch**	**Dinner**	**Incidental**	**75%**
55.00	13.00	14.00	23.00	5.00	41.25
56.00	13.00	15.00	23.00	5.00	42.00
61.00	14.00	16.00	26.00	5.00	45.75
66.00	16.00	17.00	28.00	5.00	49.50
71.00	17.00	18.00	31.00	5.00	53.25
76.00	18.00	19.00	34.00	5.00	57.00

U.S. General Services Administration

FY 2021 Per Diem Rates for Cocoa Beach, Florida

Meals & Incidentals (M&IE) Breakdown

Primary Destination	County	M&IE Total	Continental Breakfast/Breakfast	Lunch	Dinner	Incidental Expenses	First & LastDay of Travel
Cocoa Beach	Brevard	$71	$17	$18	$31	$5	$53.25

Distance	Fuel Used
364 mi	**10.37 gal**

Dania Beach, FL, USA — Departure

No Fills Required

Cocoa Beach, FL 32931, USA

Fill 1	**Wawa** 5575 Okeechobee Rd Fort Pierce, FL	1.83 $/gal	7.30 gal	$13.37
Fill 2	**RaceTrac** 2300 W Broward Blvd Fort Lauderdale, FL	1.84 $/gal	2.92 gal	$5.37
Fill 3	**Area Average**	2.17 $/gal	0.15 gal	$0.32

Dania Beach, FL, USA — Return

Total Trip Cost: $19.06

Original - In-Person Schedule

Thursday, February 4, 2021

8:30 – 9:00 am	**Registration / Continental Breakfast**
9:00 – 9:15 am	**Welcome and Introductions**

Media Communications in a Crisis: Mike McNees and Desiree Matthews

9:15 – 10:00 am	**First Presentation (Possibly a panel of PIOs)** *Ideas: Developing our message*
10:15 – 10:30 am	**Refreshment Break**
10:30 – 10:45 am	**Small Group Discussion**
10:45 – 11:30 am	**Second Presentation (Possibly a panel of reporters)** *Ideas: How to stay on message? Dealing with difficult questions*
11:30 – 11:45 am	**Small Group Discussion**
11:45 – 12:00 pm	**Group Reports and Feedback**
12:00 – 1:00 pm	**Lunch**
1:00 – 1:15 pm	**Recap of Session 1**

Internal Communications in a Crisis Staff: Emily Colon

1:15 – 2:00 pm	**First Presentation (Elected Officials)** *Ideas: Communicating roles, keeping them informed and on-message, but out of the way*
2:15 – 2:30 pm	**Small Group Discussion**
2:30 – 3:15 pm	**Second Presentation (Staff)** *Ideas: Dealing with morale issues*
3:15 – 3:30 pm	**Small Group Discussion**
3:30 – 3:45 pm	**Refreshment Break**
3:45 – 4:00 pm	**Group Reports and Feedback**
4:00 – 4:30 pm	**Wrap Up / Preview of Day 3**
5:30 – 7:00 pm	**Reception** *Sponsored by Government Services Group and Raftelis, Inc.*

Friday, February 5, 2021

7:45 – 8:45 am	**Inspirational Breakfast?** **Breakfast**
9:00 – 9:15 am	**Recap of Session 2**

Community Communications in a Crisis: Alan Rosen and Brad Johnson

9:15 – 10:00 am	**First Presentation** *Ideas: Who in the community? Does the message change based on the stakeholder you are dealing with?*
10:00 – 10:15 am	**Small Group Discussion**
10:15 – 10:30 am	**Refreshment Break**

10:30 – 11:15 am	**Second Presentation** *Ideas: Addressing misinformation*
11:15 – 11:30 am	**Small Group Discussion**
11:30 – 11:45 am	**Group Reports and Feedback**
11:45 – 12:00 pm	**Closing**

Modified 3-Day Afternoon Schedule (Virtual)

Tuesday, February 2, 2021

1:30 – 1:45 pm	**Welcome and Introductions**

Media Communications in a Crisis

1:45 – 2:30 pm	**First Presentation (Possibly a panel of PIOs)**
	Ideas: Developing our message
2:30 – 2:45 pm	**Small Group Discussion**
2:45 – 3:30 pm	**Second Presentation (Possibly a panel of reporters)**
	Ideas: How to stay on message? Dealing with difficult questions
3:30 – 3:45 pm	**Small Group Discussion**
3:45 – 4:00 pm	**Refreshment Break**
4:00 – 4:15 pm	**Group Reports and Feedback**
4:15 – 4:30 pm	**Wrap Up / Preview of Day 2**

Wednesday, February 3, 2021

1:30 – 1:45 pm	**Recap of Session 1**

Internal Communications in a Crisis

1:45 – 2:30 pm	**First Presentation (Elected Officials)**
	Ideas: Communicating roles, keeping them informed and on-message, but out of the way
2:30 – 2:45 pm	**Small Group Discussion**
2:45 – 3:30 pm	**Second Presentation (Staff)**
	Ideas: Dealing with morale issues
3:30 – 3:45 pm	**Small Group Discussion**
3:45 – 4:00 pm	**Refreshment Break**
4:00 – 4:15 pm	**Group Reports and Feedback**
4:15 – 4:30 pm	**Wrap Up / Preview of Day 3**
5:30 – 6:30 pm	**Virtual Mixer?**

Thursday, February 4, 2021

1:30 – 1:45 pm	**Recap of Session 2**

Community Communications in a Crisis

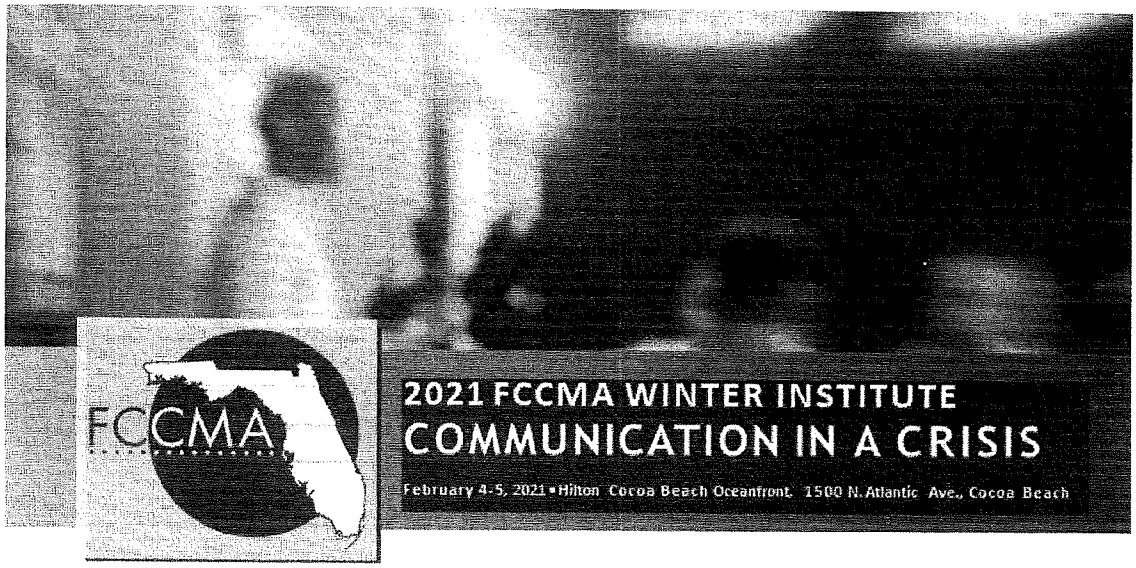
1:45 – 2:30 pm	**First Presentation**
	Ideas: Who in the community? Does the message change based on the stakeholder you are dealing with?
2:30 – 2:45 pm	**Small Group Discussion**
2:45 – 3:30 pm	**Second Presentation**
	Ideas: Addressing misinformation
3:30 – 3:45 pm	**Small Group Discussion**
3:45 – 4:00 pm	**Refreshment Break**
4:00 – 4:15 pm	**Group Reports and Feedback**
4:15 – 4:30 pm	**Closing**

2021 Winter Institute

Hilton Cocoa Beach Oceanfront, 1500 N Atlantic Ave, Cocoa Beach, FL 32931

February 4-5, 2021

Register Now.



Crises often present new and unique challenges to local governments. Managers are called to navigate these challenges and provide innovative solutions for their communities. Communication is at the forefront of the decision-making process in a crisis, and doing it effectively can pave the way for a community's response. Please join us at the Florida City and County Management Association Winter Institute as we learn to effectively communi- cate through a crisis. Participants will explore city/county crisis communications through three lenses:

- Media communications.
- Internal/organizational communications.
- Community communications.

HOTEL INFORMATION:

The host hotel is the Hilton Cocoa Beach Oceanfront, 1500 N. Atlantic Ave., Cocoa Beach, Phone: 321.799.0003. FCCMA has a room block reserved. Rooms are available at a discounted nightly rate of $171, plus 50% off self-parking, until January 13, 2021.

REGISTRATION INFORMATION

The FCCMA Winter Institute is an intense, interactive workshop for Florida's city and county managers and assistants. The cost for the training is $290 per person. Space is limited. Registration is not final until payment is received. Cancellations received before Monday, January 25 will receive a refund; however, a $25 administrative fee will be charged. No refunds will be given after the deadline, but another FCCMA member may be substituted to fill the slot.

Please note: While we are planning for an in-person event, we may transition to a virtual event.

Click *here* to register. For more information, contact Carol Russell at *crussell@flcities.com* or 850.222.9684.

QUICK LINKS

- **Affiliation Contacts**
- **Ethics Review**
- **Membership Application**
- **Member-in-Transition Profiles**
- **Onsite Training Sessions**
- **Senior Advisors**
- **Contact Us**
- **STATEMENT OF ACCESSIBILITY**

LOCATION

Florida City and County Management Association
301 South Bronough St., PO Box 1757
Tallahassee, FL 32302-1757
(850) 222-9684

STATEMENT OF ACCESSIBILITY

The Florida City and County Management Association ("FCCMA") is committed to ensuring accessibility of its website. To report an accessibility issue, request accessibility assistance regarding our website content, or to request a specific electronic format, please complete our Accessibility Feedback Form. We will make reasonable efforts to accommodate all needs.

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FCCMA 2021 Winter Institute

November 3, 2020

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1550 N. Atlantic Avenue, Cocoa Beach

Registration open for full members only.

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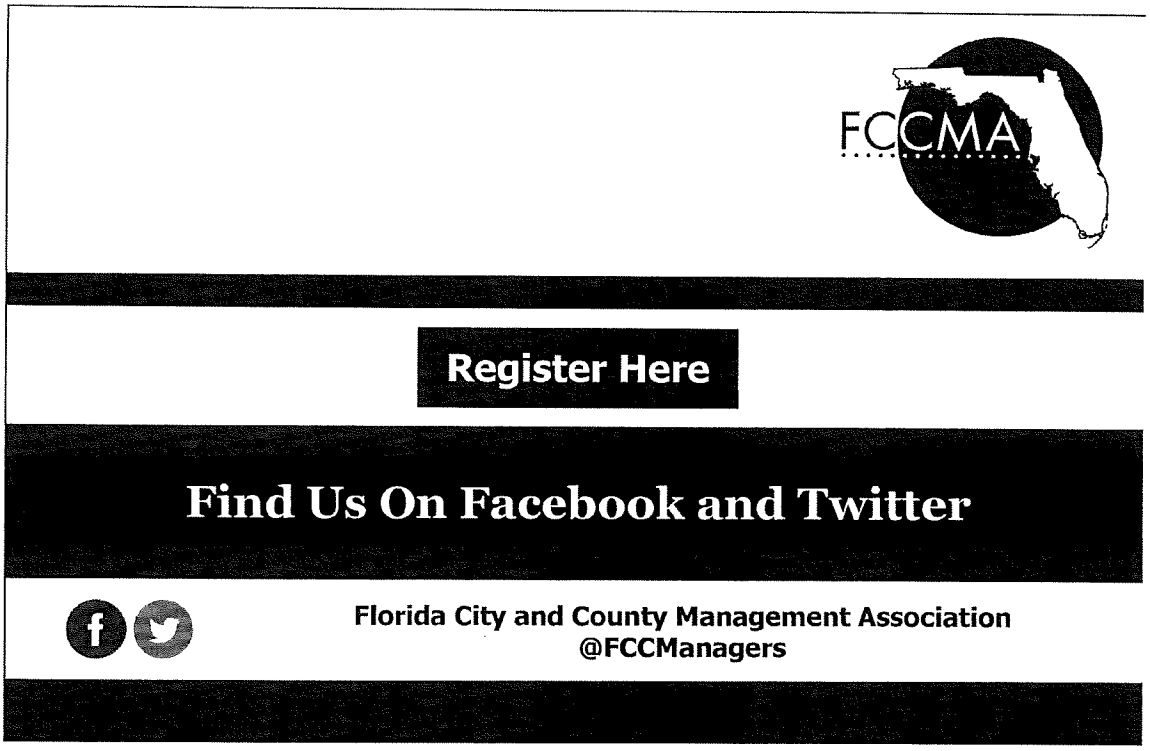
Please note: While we are planning for an in-person event, we may transition to a virtual event.



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- Some hotel services may not be available or may be limited during your visit. The following services and amenities are available, but with **reduced service**: Fitness Center, Breakfast, On-site Restaurant(s), Pool. The following services and amenities are currently **not available**: Complimentary Evening Social, Room Service.

Full Alert

Hilton Cocoa Beach Oceanfront

1550 North Atlantic Ave, Cocoa Beach, Florida, 32931-3268, USA TEL: +1-321-799-0003 FAX: +1-321-799-0344

- Share
- Print

Hotel Policies

It's important to us that each Guest is given appropriate information to make their stay as comfortable as possible. Here you can find details of our Cocoa Beach hotel policies on items such as check-in/check-out times, cancellations, payment and more. You can also contact the hotel for details.

Smoking

Non-Smoking

Check-in / Check-out

Check-In Time	4:00 pm
Minimum Age to Register	21
Check-Out Time	11:00 am
Early Departure Fee	$0.00 One night room and tax.
Late Check-Out Fee	$0.00 1pm - $19, 2pm - $29, 3pm - $39 after 4pm, regular rates.

Cancellations

Cancellation Policy	Cancellation policies may vary depending on the rate or dates of your reservation. Please refer to your reservation confirmation to verify your cancellation policy. If you need further assistance, call the hotel directly or contact customer service. Alternatively, you can cancel your reservation online.

Payment

Hotel Currency	US Dollar
Accepted Payment Options	• Air Canada • American Express • Banamex • Bancomer • Bankamericard • Carte Blanche • China Union Pay • Choice • Diner's Club • Discover • Air Canada EnRoute • Eurocard • Interbank • JAL • JCB • MasterCard • MasterCard (Canada) • MasterCard (Int'l) • Visa

Pets

Service animals allowed	Yes
Pets allowed	No

Parking

Self parking	$9.00
Valet parking	$15.00
Secured	Not Available
Covered	Not Available
In/Out Privileges	Not Available

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Consent Agenda

Continued from:

Requested Action (Identify appropriate Action or Motion)
TO APPROVE AND ADOPT A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, RATIFYING AN AGREEMENT AND FUNDS THAT EXCEED THE CITY ANNUAL VENDOR THRESHOLD POLICY OF TWENTY FIVE THOUSAND ($25,000.00) FOR EMERGENCY PUMPING SERVICES PROVIDED BY HINTERLAND GROUP, INC. OBTAINED UNDER THE EMERGENCY CONDITIONS BY THE CITY MANAGER AS A RESULT OF TROPICAL STORM ETA; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
C-MEMO-EMERGENCYSVS-VAC-PUMPS-120820 (006).docxx, R-2020- Ratifying Agreement and Funds for Hinterland Group, Inc. for Emergency Pumping Services Related to Tropical Storm Eta, AGREEMENT BETWEEN CITY OF DANIA BEACH AND HINTERLAND INC -PUMPING SERVICES- Exhibit A , Quick Bill Invoices-20-0352-01RF1

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

VIA: Ana M. Garcia, ICMA- CM, City Manager

FROM: Fernando J. Rodriguez, Public Services Director

RE: RESOLUTION AUTHORIZING THE CITY TO RATIFY FUNDS FOR HINTERLAND GROUP, INC. FOR EMERGENCY PUMPING SERVICES

Request

The Public Services Department (PSD) is requesting the adoption of a resolution authorizing the ratification of expenses for citywide emergency pumping services by Hinterland Group, Inc. in the amount of $77,625.00, which exceeds the City's vendors threshold of $25,000.00.

Background

In the early days of November 2020, Tropical Depression (TS) Eta began to approach the coast of Florida, bringing with it fairly strong wind gusts and significant rain. A few weeks prior to TS Eta heavy rain storms in the Broward County had resulted in significant flooding in parts of the city. In addition to the flooding, these previous (October) rains saturated the underground stormwater structures and the ground itself.

The heavy rains brought by TS Eta, when combined with an already saturated system caused significant flooding in several parts of the city, particularly along the western sections. PSD currently has two pumps and two vac-con trucks and portable pumps to remove rainwater from significantly flooded streets. This equipment proved insufficient to address the flooding in multiple locations in a timely manner. The Department therefore required additional resources for pumping out stormwater. Contracted staff/equipment was needed on an emergency basis.

PSD reached out to the Hinterland Group, Inc which provided four staffed vac-con trucks and three pumps to assist the city with removing standing rainwater. The City entered into an emergency for pumping out services with Hinterland, piggybacking off the City of Fort Lauderdale Agreement ITB# 12101-383-4 with Hinterland Group, Inc.

\continued…

Budgetary Impact

The emergency pumping services will be funded from the City's Disaster Reserve Account No. 001-271-08-00.

Recommendation

It is recommended that the City Commission adopt the resolution to authorizing the Administration to ratify the expenses for stormwater vac truck and pumping services by Hinterland Group, Inc. in the amount of $77,625.00

RESOLUTION NO. 2020-146

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, RATIFYING AN AGREEMENT AND FUNDS THAT EXCEED THE CITY ANNUAL VENDOR THRESHOLD POLICY OF TWENTY FIVE THOUSAND ($25,000.00) FOR EMERGENCY PUMPING SERVICES PROVIDED BY HINTERLAND GROUP, INC. OBTAINED UNDER EMERGENCY CONDITIONS BY THE CITY MANAGER AS A RESULT OF TROPICAL STORM ETA; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Charter of the City of Dania Beach, Part III, Article 3, Section 4, Subsection (j), authorizes the City Manager to purchase supplies, services, equipment and materials for the City government in amounts in excess of the established monetary threshold without competitive bidding and without advertising for bids if she is authorized to do so in advance by a resolution adopted by the City Commission; and

WHEREAS, the Dania Beach Code of Ordinances, Chapter 2, Article 1, Section 2-10, "Monetary thresholds for certain purchases and payment disbursement authorizations", Subsection (a), sets the monetary threshold at $25,000.00 for a vendor each fiscal year; and

WHEREAS, the recent major rain events in October and the subsequent rains brought on by Tropical Storm Eta required that Public Services Department avail itself of additional resources to address flooding in parts of the City; and

WHEREAS, the City entered into an Agreement on November 6, 2020 with Hinterland Group, Inc. for pumping services with the use of vac-con trucks under emergency conditions, which the Department is seeking ratification of the Agreement, a copy of which is attached as Exhibit "A" and incorporated into this Resolution by this reference; and

WHEREAS, such services are expected to exceed the City's annual vendor threshold of Twenty Five Thousand Dollars ($25,000.00) for the term of the Agreement dated November 6, 2020 through April 2, 2021, and therefore, City Commission approval is required;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the above "Whereas" clauses are ratified and confirmed, and they are made a part of and incorporated into this Resolution by this reference.

Section 2. That the City Commission authorizes and ratifies the Agreement dated November 6, 2020, and related expenses for pumping services provided by Hinterland Group, Inc.

in an amount exceeding the annual amount of Twenty Five Thousand Dollars ($25,000.00) purchase threshold for a single vendor for the term of the contract.

Section 3. Funds will be appropriated from the City's Disaster Reserve Account 001-271-08-00.

Section 4. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 5. That this Resolution shall become effective and retroactive to November 6, 2020, upon its passage and adoption.

PASSED and ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

AGREEMENT BETWEEN THE CITY OF DANIA BEACH, FLORIDA AND HINTERLAND GROUP, INC., A FLORIDA CORPORATION, FOR EMERGENCY PUMPING SERVICES UNDER THE CITY OF FORT LAUDERDALE, FLORIDA AGREEMENT (ITB NO. 12101-383-4)

This is an Agreement (the "Agreement") between the City of Dania Beach, Florida, a Florida municipal corporation ("City") and Hinterland Group, Inc., a Florida corporation ("Contractor"), with a mailing address of 992 W. 15th Street, Riviera Beach, Florida 33404

In consideration of the mutual covenants, terms and conditions contained in this Agreement, and other good and valuable consideration, the adequacy and receipt of which are acknowledged and agreed upon, the parties agree to the following:

1. The agreement existing between the Contractor and the City of Fort Lauderdale and any amendment(s) to it, under an award by the City of Fort Lauderdale of a project (the agreement, related ITB No. 12101-383-4 and the contract renewal letter dated March 9, 2020, copies of which are attached as composite Exhibit "A", and made a part of and are incorporated into this Agreement by this reference), shall be considered as part of this Agreement between the City and the Contractor; provided, however, that if Contractor contracts with any other governmental agency in the South Florida area and service rates are lower than those afforded to the City of Fort Lauderdale, or any city in the area for these same services, then Contractor shall provide such lower service rates to the City.

2. The goods and services to be provided to the City consist of emergency pumping services related to the recent heavy rains experienced in South Florida and the approach of Tropical Depression Eta .

3. The term of this Agreement shall be effective immediately upon execution by both parties through and including April 2, 2021.

4. That in all other respects, the terms of the Fort Lauderdale agreement documents apply to this Agreement.

SIGNATURES ON FOLLOWING PAGES

WITNESSES:

Signature

CHASE ROGERS
PRINT Name

Signature

JAY BRETO
PRINT Name

CONTRACTOR:
HINTERLAND GROUP, INC., a Florida corporation

Signature

Daniel Duke III
PRINT Name

President
Title

Dated: Nov 6th, 2020

STATE OF FLORIDA)
COUNTY OF BROWARD)

The foregoing instrument was acknowledged before me by means of ☑ physical presence or ☐ online notarization, on November 6, 2020, by Daniel Duke III as President of Hinterland Group, Inc., Florida corporation, on behalf of the corporation. He is personally known to me or has produced personally known as identification.

My Commission Expires: 4-29-23

Stephanie Sackett
Notary Public, State of Florida

NOTARY PUBLIC STATE OF FLORIDA
STEPHANIE SACKETT
Commission # GG 328788
Expires April 29, 2023
Bonded Thru Budget Notary Services

Stephanie Sackett
Print Name

IN WITNESS of the foregoing, the parties have executed this Agreement on _____, 2020.

CITY:

CITY OF DANIA BEACH, FLORIDA,
a Florida municipal corporation

ATTEST:

_____
THOMAS SCHNEIDER, CMC
CITY CLERK

_____
LORI LEWELLEN
MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

Thomas J. Ansbro Digitally signed by Thomas J. Ansbro DN: cn=Thomas J. Ansbro, o=City of Dania Beach, ou=Legal Department, email=tansbro@daniabeachfl.gov, c=US Date: 2020.11.06 11:50:16 -05'00'

_____
THOMAS J. ANSBRO
CITY ATTORNEY

_____
ANA M. GARCIA, ICMA-CM
CITY MANAGER

City of Fort Lauderdale • Procurement Services Division
100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301
954-828-5933 Fax 954-828-5576
www.fortlauderdale.gov

March 9, 2020

Hinterland Group Inc.
Attn: Daniel A. Duke
992 W 15 Street
Riviera Beach, FL 33404

SUBJECT: Renewal of Term Contract for Pumping Services (Scheduled/Unscheduled), ITB 12101-383-4, Amendment 1

Dear Mr. Duke:

The subject Contract will expire on April 2, 2020.

In accordance with the terms and conditions of the subject Contract, the Contract may, by mutual consent of the parties, be renewed for an additional twelve (12) month period. The City would like to exercise the right to renew this Contract for an additional year at the existing pricing, terms and conditions. Once renewed, the new contract expiration date will be April 2, 2021.

Please indicate your approval of this offer by having an officer of your firm execute the acceptance portion below and return this letter by email to Lura Rogers at lrogers@fortlauderdale.gov by March 16, 2020.

Upon execution below by your firm's authorized representative, this Amendment will be your official notice that the Contract has been extended for one (1) year and no additional documentation will be required. Please be sure any required Insurance Certificates are up to date and attached to your response.

Thank you for your immediate attention to this matter.

Sincerely,

Jodi S. Hart, CPPO, CPPB, MBA
Chief Procurement Officer

ACCEPTANCE

By _____
Official Signature

Daniel Duke III — President
Name — Title

03/09/2020
Date

HINTERLAND GROUP, INC. CORPORATE SEAL FLORIDA

ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 03/09/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
South Shore Insurance Inc.
955 SE Central Parkway
Stuart FL 34994

CONTACT NAME: Jennie Lanman
PHONE (A/C, No, Ext): (772) 426-9973 FAX (A/C, No): (772) 872-5870
E-MAIL ADDRESS: jennie@southshore-insurance.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Zurich American Insurance Company	16535
INSURER B : Travelers Property Casualty Company of Amer	25674
INSURER C : American Guarantee & Liability Insurance Co.	26247
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Hinterland Group Inc.
2051 West Blue Heron Blvd
Riviera Beach, FL 33404

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR X XCU Coverage Included X Primary/Non Contributory GEN'L AGGREGATE LIMIT APPLIES PER: POLICY X PRO-JECT LOC OTHER:	x	x	GLO-4956332	01/31/2020	01/31/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 300,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS	x	x	BAP-4956334	01/31/2020	01/31/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $ $
B	x UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $			ZUP81N2525920NF	01/31/2020	01/31/2021	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000 $
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) Y/N Y If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	x	WC-4956333	01/31/2020	01/31/2021	X PER STATUTE OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
A	Inland Marine			CPP- 6674260-00	01/31/2020	01/31/2021	Installation Floater Rented/Leased Equi	$2,000,000 $500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Should any of the above policies be cancelled before the expiration date thereof, the issuing insurer will endeavor to mail 30 days written notice to the certificate holder named to the left, but failure to do so shall impose no obligation or liability of any kind upon the insurer, its agents or representatives. City of Fort Lauderdale, a Florida municipality is included as an additional insured on blanket form only if required by written contract/agreement with the insured executed prior to injury or damage.

A Waiver of Subrogation is provided on blanket form only if required by written contract/agreement with the insured executed prior to injury

Coverage is primary/noncontributory when required by written contract/ agreement. RE: ITB 12101-383-4

CERTIFICATE HOLDER

City of Fort Lauderdale
Procurement Services Division
100 N. Andrews Avenue, Suite 619
Fort Lauderdale, FL 33301

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE Jennie Lanman <CS>

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AGREEMENT FOR
PUMPING SERVICES (SCHEDULED / UNSCHEDULED)

THIS AGREEMENT, made this 3rd day of April 2018, is by and between the City of Fort Lauderdale, a Florida municipality, ("City"), whose address is 100 North Andrews Avenue, Fort Lauderdale, Florida, 33301, and **Hinterland Group Inc., a Florida corporation,** ("Contractor") whose address is **992 W. 15th Street, Riviera Beach, Florida 33404, Phone: 561-640-3503, Email: info@hinterlandgroup.com.**

NOW THEREFORE, for and in consideration of the mutual promises and covenants set forth herein and other good and valuable consideration, the City and the Contractor covenant and agree as follows:

WITNESSETH:

I. DOCUMENTS

The following documents (collectively "Contract Documents") are hereby incorporated into and made part of this Agreement (Form P-0001):

(1) **Invitation to Bid No. 12101-383, PUMPING SERVICES (SCHEDULED / UNSCHEDULED),** including any and all addenda, prepared by the City of Fort Lauderdale, ("**ITB**" or "Exhibit A").

(2) The Contractor's response to the **ITB, dated February 9, 2018** ("Exhibit B").

All Contract Documents may also be collectively referred to as the "Documents." In the event of any conflict between or among the Documents or any ambiguity or missing specifications or instruction, the following priority is established:

A. First, specific direction from the City Manager (or designee)
B. Second, this Agreement (Form P-0001) dated April 3rd, 2018, and any attachments.
C. Third, Exhibit A
D. Fourth, Exhibit B

II. SCOPE

The Contractor shall perform the work under the general direction of the City as set forth in the Contract Documents.

Unless otherwise specified herein, the Contractor shall perform all work identified in this Agreement. The parties agree that the scope of services is a description of Contractor's obligations and responsibilities, and is deemed to include preliminary considerations and prerequisites, and all labor, materials, equipment, and tasks which are such an inseparable part of the work described that exclusion would render performance by Contractor impractical, illogical, or unconscionable.

Contractor acknowledges and agrees that the City's Contract Administrator has no authority to make changes that would increase, decrease, or otherwise modify the Scope of Services to be provided under this Agreement.

By signing this Agreement, the Contractor represents that it thoroughly reviewed the documents incorporated into this Agreement by reference and that it accepts the description of the work and the conditions under which the Work is to be performed.

I. TERM OF AGREEMENT

The initial contract period shall commence on **April 3, 2018 and shall end on April 2, 2020. The City reserves the right to extend the contract for two additional one-year terms,** providing all terms conditions and specifications remain the same, both parties agree to the extension, and such extension is approved by the City. In the event the term of this Agreement extends beyond the end of any fiscal year of City, to wit, September 30th, the continuation of this Agreement beyond the end of such fiscal year shall be subject to both the appropriation and the availability of funds

II. COMPENSATION

The Contractor agrees to provide the services and/or materials as specified in the Contract Documents at the cost specified in Exhibit B. It is acknowledged and agreed by Contractor that this amount is the maximum payable and constitutes a limitation upon City's obligation to compensate Contractor for Contractor's services related to this Agreement. This maximum amount, however, does not constitute a limitation of any sort upon Contractor's obligation to perform all items of work required by or which can be reasonably inferred from the Scope of Services. Except as otherwise provided in the solicitation, no amount shall be paid to Contractor to reimburse Contractor's expenses.

III. METHOD OF BILLING AND PAYMENT

Contractor may submit invoices for compensation no more often than monthly, but only after the services for which the invoices are submitted have been completed. An original invoice plus one copy are due within fifteen (15) days of the end of the month except the final invoice which must be received no later than sixty (60) days after this Agreement expires. Invoices shall designate the nature of the services performed and/or the goods provided.

City shall pay Contractor within forty-five (45) days of receipt of Contractor's proper invoice, as provided in the Florida Local Government Prompt Payment Act.

To be deemed proper, all invoices must comply with the requirements set forth in this Agreement and must be submitted on the form and pursuant to instructions prescribed by the City's Contract Administrator. Payment may be withheld for failure of Contractor to comply with a term, condition, or requirement of this Agreement.

Notwithstanding any provision of this Agreement to the contrary, City may withhold, in whole or in part, payment to the extent necessary to protect itself from loss on account of inadequate or defective work that has not been remedied or resolved in a manner satisfactory to the City's Contract Administrator or failure to comply with this Agreement. The amount withheld shall not be subject to payment of interest by City.

IV. GENERAL CONDITIONS

A. <u>Indemnification</u>

Contractor shall protect and defend at Contractor's expense, counsel being subject to the City's approval, and indemnify and hold harmless the City and the City's officers, employees, volunteers, and agents from and against any and all losses, penalties, fines, damages, settlements, judgments, claims, costs, charges, expenses, or liabilities, including any award of attorney fees and any award of costs, in connection with or arising directly or indirectly out of any act or omission by the Contractor or by any officer, employee, agent, invitee, subcontractor, or sublicensee of the Contractor. The provisions and obligations of this section shall survive the expiration or earlier termination of this Agreement. To the extent considered necessary by the City Manager, any sums due Contractor under this Agreement may be retained by City until all of City's claims for indemnification pursuant to this Agreement have been settled or otherwise resolved, and any amount withheld shall not be subject to payment of interest by City.

B. Intellectual Property

Contractor shall protect and defend at Contractor's expense, counsel being subject to the City's approval, and indemnify and hold harmless the City from and against any and all losses, penalties, fines, damages, settlements, judgments, claims, costs, charges, royalties, expenses, or liabilities, including any award of attorney fees and any award of costs, in connection with or arising directly or indirectly out of any infringement or allegation of infringement of any patent, copyright, or other intellectual property right in connection with the Contractor's or the City's use of any copyrighted, patented or un-patented invention, process, article, material, or device that is manufactured, provided, or used pursuant to this Agreement. If the Contractor uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

C. Termination for Cause

The aggrieved party may terminate this Agreement for cause if the party in breach has not corrected the breach within ten (10) days after written notice from the aggrieved party identifying the breach. The City Manager may also terminate this Agreement upon such notice as the City Manager deems appropriate under the circumstances in the event the City Manager determines that termination is necessary to protect the public health or safety. The parties agree that if the City erroneously, improperly or unjustifiably terminates for cause, such termination shall be deemed a termination for convenience, which shall be effective thirty (30) days after such notice of termination for cause is provided.

This Agreement may be terminated for cause for reasons including, but not limited to, Contractor's repeated (whether negligent or intentional) submission for payment of false or incorrect bills or invoices, failure to perform the Work to the City's satisfaction; or failure to continuously perform the work in a manner calculated to meet or accomplish the objectives as set forth in this Agreement.

D. Termination for Convenience

The City reserves the right, in its best interest as determined by the City, to cancel this contract for convenience by giving written notice to the Contractor at least thirty (30) days prior to the effective date of such cancellation. In the event this Agreement is terminated for convenience, Contractor shall be paid for any services performed to the City's satisfaction pursuant to the Agreement through the termination date specified in the written notice of termination. Contractor acknowledges and agrees that he/she/it has

received good, valuable and sufficient consideration from City, the receipt and adequacy of which are hereby acknowledged by Contractor, for City's right to terminate this Agreement for convenience.

E. Cancellation for Unappropriated Funds

The City reserves the right, in its best interest as determined by the City, to cancel this contract for unappropriated funds or unavailability of funds by giving written notice to the Contractor at least thirty (30) days prior to the effective date of such cancellation. The obligation of the City for payment to a Contractor is limited to the availability of funds appropriated in a current fiscal period, and continuation of the contract into a subsequent fiscal period is subject to appropriation of funds, unless otherwise provided by law.

F. Insurance

The Contractor shall furnish proof of insurance requirements as indicated below. The coverage is to remain in force at all times during the contract period. The following minimum insurance coverage is required. The commercial general liability insurance policy shall name the City of Fort Lauderdale, a Florida municipality, as an "additional insured." This MUST be written in the description section of the insurance certificate, even if there is a check-off box on the insurance certificate. Any costs for adding the City as "additional insured" shall be at the Contractor's expense.

The City of Fort Lauderdale shall be given notice 10 days prior to cancellation or modification of any required insurance. The insurance provided shall be endorsed or amended to comply with this notice requirement. In the event that the insurer is unable to accommodate, it shall be the responsibility of the Contractor to provide the proper notice. Such notification will be in writing by registered mail, return receipt requested and addressed to the Procurement Services Division.

The Contractor's insurance must be provided by an A.M. Best's "A-"rated or better insurance company authorized to issue insurance policies in the State of Florida, subject to approval by the City's Risk Manager. Any exclusions or provisions in the insurance maintained by the contractor that excludes coverage for work contemplated in this solicitation shall be deemed unacceptable, and shall be considered breach of contract.

Workers' Compensation and Employers' Liability Insurance

Limits: Workers' Compensation – Per Chapter 440, Florida Statutes
Employers' Liability - $500,000

Any firm performing work on behalf of the City of Fort Lauderdale must provide Workers' Compensation insurance. Exceptions and exemptions will be allowed by the City's Risk Manager, if they are in accordance with Florida Statute. For additional information contact the Department of Financial Services, Workers' Compensation Division at (850) 413-1601 or on the web at www.fldfs.com.

Commercial General Liability Insurance

Covering premises-operations, products-completed operations, independent contractors and contractual liability.

Limits: Combined single limit bodily injury/property damage $1,000,000.

This coverage must include, but not limited to:

a. Coverage for the liability assumed by the contractor under the indemnity provision of the contract.
b. Coverage for Premises/Operations
c. Products/Completed Operations
d. Broad Form Contractual Liability
e. Independent Contractors

Automobile Liability Insurance

Covering all owned, hired and non-owned automobile equipment.

Limits: Bodily Injury	$250,000 each person
	$500,000 each occurrence
Property Damage	$100,000 each occurrence

Certificate holder should be addressed as follows:

City of Fort Lauderdale
Procurement Services Division
100 North Andrews Avenue, Room 619
Fort Lauderdale, FL 33301

G. Environmental, Health and Safety

Contractor shall place the highest priority on health and safety and shall maintain a safe working environment during performance of the work. Contractor shall comply, and shall secure compliance by its employees, agents, and subcontractors, with all applicable environmental, health, safety and security laws and regulations, and performance conditions in this Agreement. Compliance with such requirements shall represent the minimum standard required of Contractor. Contractor shall be responsible for examining all requirements and determine whether additional or more stringent environmental, health, safety and security provisions are required for the work. Contractor agrees to utilize protective devices as required by applicable laws, regulations, and any industry or Contractor's health and safety plans and regulations, and to pay the costs and expenses thereof, and warrants that all such persons shall be fit and qualified to carry out the Work.

H. Standard of Care

Contractor represents that he/she/it is qualified to perform the work, that Contractor and his/her/its subcontractors possess current, valid state and/or local licenses to perform the Work, and that their services shall be performed in a manner consistent with that level of care and skill ordinarily exercised by other qualified contractors under similar circumstances.

I. Rights in Documents and Work

Any and all reports, photographs, surveys, and other data and documents provided or created in connection with this Agreement are and shall remain the property of City; and Contractor disclaims any copyright in such materials. In the event of and upon

termination of this Agreement, any reports, photographs, surveys, and other data and documents prepared by Contractor, whether finished or unfinished, shall become the property of City and shall be delivered by Contractor to the City's Contract Administrator within seven (7) days of termination of this Agreement by either party. Any compensation due to Contractor shall be withheld until Contractor delivers all documents to the City as provided herein.

J. Audit Right and Retention of Records

City shall have the right to audit the books, records, and accounts of Contractor and Contractor's subcontractors that are related to this Agreement. Contractor shall keep, and Contractor shall cause Contractor's subcontractors to keep, such books, records, and accounts as may be necessary in order to record complete and correct entries related to this Agreement. All books, records, and accounts of Contractor and Contractor's subcontractors shall be kept in written form, or in a form capable of conversion into written form within a reasonable time, and upon request to do so, Contractor or Contractor's subcontractor, as applicable, shall make same available at no cost to City in written form.

Contractor and Contractor's subcontractors shall preserve and make available, at reasonable times for examination and audit by City in Broward County, Florida, all financial records, supporting documents, statistical records, and any other documents pertinent to this Agreement for the required retention period of the Florida public records law, Chapter 119, Florida Statutes, as may be amended from time to time, if applicable, or, if the Florida Public Records Act is not applicable, for a minimum period of three (3) years after termination of this Agreement. If any audit has been initiated and audit findings have not been resolved at the end of the retention period or three (3) years, whichever is longer, the books, records, and accounts shall be retained until resolution of the audit findings. If the Florida public records law is determined by City to be applicable to Contractor and Contractor's subcontractors' records, Contractor and Contractor's subcontractors shall comply with all requirements thereof; however, Contractor and Contractor's subcontractors shall violate no confidentiality or non-disclosure requirement of either federal or state law. Any incomplete or incorrect entry in such books, records, and accounts shall be a basis for City's disallowance and recovery of any payment upon such entry.

Contractor shall, by written contract, require Contractor's subcontractors to agree to the requirements and obligations of this Section.

The Contractor shall maintain during the term of the contract all books of account, reports and records in accordance with generally accepted accounting practices and standards for records directly related to this contract.

K. Public Entity Crime Act

Contractor represents that the execution of this Agreement will not violate the Public Entity Crime Act, Section 287.133, Florida Statutes, as may be amended from time to time, which essentially provides that a person or affiliate who is a contractor, consultant, or other provider and who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to City, may not submit a bid on a contract with City for the construction or repair of a public building or public work, may not submit bids on leases of real property to City, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with City, and may not transact any business with City in

excess of the threshold amount provided in Section 287.017, Florida Statutes, as may be amended from time to time, for category two purchases for a period of 36 months from the date of being placed on the convicted vendor list. Violation of this section shall result in termination of this Agreement and recovery of all monies paid by City pursuant to this Agreement, and may result in debarment from City's competitive procurement activities.

L. Independent Contractor

Contractor is an independent contractor under this Agreement. Services provided by Contractor pursuant to this Agreement shall be subject to the supervision of the Contractor. In providing such services, neither Contractor nor Contractor's agents shall act as officers, employees, or agents of City. No partnership, joint venture, or other joint relationship is created hereby. City does not extend to Contractor or Contractor's agents any authority of any kind to bind City in any respect whatsoever.

M. Inspection and Non-Waiver

Contractor shall permit the representatives of CITY to inspect and observe the Work at all times.

The failure of the City to insist upon strict performance of any other terms of this Agreement or to exercise any rights conferred by this Agreement shall not be construed by Contractor as a waiver of the City's right to assert or rely on any such terms or rights on any future occasion or as a waiver of any other terms or rights.

N. Assignment and Performance

Neither this Agreement nor any right or interest herein shall be assigned, transferred, or encumbered without the written consent of the other party. In addition, Contractor shall not subcontract any portion of the work required by this Agreement, except as provided in the Schedule of Subcontractor Participation. City may terminate this Agreement, effective immediately, if there is any assignment, or attempted assignment, transfer, or encumbrance, by Contractor of this Agreement or any right or interest herein without City's written consent.

Contractor represents that each person who will render services pursuant to this Agreement is duly qualified to perform such services by all appropriate governmental authorities, where required, and that each such person is reasonably experienced and skilled in the area(s) for which he or she will render his or her services.

Contractor shall perform Contractor's duties, obligations, and services under this Agreement in a skillful and respectable manner. The quality of Contractor's performance and all interim and final product(s) provided to or on behalf of City shall be comparable to the best local and national standards.

In the event Contractor engages any subcontractor in the performance of this Agreement, Contractor shall ensure that all of Contractor 's subcontractors perform in accordance with the terms and conditions of this Agreement. Contractor shall be fully responsible for all of Contractor's subcontractors' performance, and liable for any of Contractor's subcontractors' non-performance and all of Contractor's subcontractors' acts and omissions. Contractor shall defend at Contractor's expense, counsel being subject to City's approval or disapproval, and indemnify and hold City and City's officers, employees, and agents harmless from and against any claim, lawsuit, third party action,

fine, penalty, settlement, or judgment, including any award of attorney fees and any award of costs, by or in favor of any of Contractor's subcontractors for payment for work performed for City by any of such subcontractors, and from and against any claim, lawsuit, third party action, fine, penalty, settlement, or judgment, including any award of attorney fees and any award of costs, occasioned by or arising out of any act or omission by any of Contractor 's subcontractors or by any of Contractor's subcontractors' officers, agents, or employees. Contractor's use of subcontractors in connection with this Agreement shall be subject to City's prior written approval, which approval City may revoke at any time.

O. Conflicts

Neither Contractor nor any of Contractor's employees shall have or hold any continuing or frequently recurring employment or contractual relationship that is substantially antagonistic or incompatible with Contractor's loyal and conscientious exercise of judgment and care related to Contractor's performance under this Agreement.

Contractor further agrees that none of Contractor's officers or employees shall, during the term of this Agreement, serve as an expert witness against City in any legal or administrative proceeding in which he, she, or Contractor is not a party, unless compelled by court process. Further, Contractor agrees that such persons shall not give sworn testimony or issue a report or writing, as an expression of his or her expert opinion, which is adverse or prejudicial to the interests of City in connection with any such pending or threatened legal or administrative proceeding unless compelled by court process. The limitations of this section shall not preclude Contractor or any persons in any way from representing themselves, including giving expert testimony in support thereof, in any action or in any administrative or legal proceeding.

In the event Contractor is permitted pursuant to this Agreement to utilize subcontractors to perform any services required by this Agreement, Contractor agrees to require such subcontractors, by written contract, to comply with the provisions of this section to the same extent as Contractor.

P. Schedule and Delays

Time is of the essence in this Agreement. By signing, Contractor affirms that it believes the schedule to be reasonable; provided, however, the parties acknowledge that the schedule might be modified as the City directs.

Q. Materiality and Waiver of Breach

City and Contractor agree that each requirement, duty, and obligation set forth herein was bargained for at arm's-length and is agreed to by the parties in exchange for *quid pro quo*, that each is substantial and important to the formation of this Agreement and that each is, therefore, a material term hereof.

City's failure to enforce any provision of this Agreement shall not be deemed a waiver of such provision or modification of this Agreement. A waiver of any breach of a provision of this Agreement shall not be deemed a waiver of any subsequent breach and shall not be construed to be a modification of the terms of this Agreement.

R. Compliance With Laws

Contractor shall comply with all applicable federal, state, and local laws, codes, ordinances, rules, and regulations in performing Contractor's duties, responsibilities, and obligations pursuant to this Agreement.

S. Severance

In the event a portion of this Agreement is found by a court of competent jurisdiction to be invalid or unenforceable, the provisions not having been found by a court of competent jurisdiction to be invalid or unenforceable shall continue to be effective.

T. Limitation of Liability

The City desires to enter into this Agreement only if in so doing the City can place a limit on the City's liability for any cause of action for money damages due to an alleged breach by the City of this Agreement, so that its liability for any such breach never exceeds the sum of $1,000. Contractor hereby expresses its willingness to enter into this Agreement with Contractor's recovery from the City for any damage action for breach of contract or for any action or claim arising from this Agreement to be limited to a maximum amount of $1,000 less the amount of all funds actually paid by the City to Contractor pursuant to this Agreement.

Accordingly, and notwithstanding any other term or condition of this Agreement, Contractor hereby agrees that the City shall not be liable to Contractor for damages in an amount in excess of $1,000 which amount shall be reduced by the amount actually paid by the City to Contractor pursuant to this Agreement, for any action for breach of contract or for any action or claim arising out of this Agreement. Nothing contained in this paragraph or elsewhere in this Agreement is in any way intended to be a waiver of the limitation placed upon City's liability as set forth in Section 768.28, Florida Statutes.

U. Jurisdiction, Venue, Waiver, Waiver of Jury Trial

This Agreement shall be interpreted and construed in accordance with and governed by the laws of the State of Florida. Venue for any lawsuit by either party against the other party or otherwise arising out of this Agreement, and for any other legal proceeding, shall be in the Seventeenth Judicial Circuit in and for Broward County, Florida, or in the event of federal jurisdiction, in the Southern District of Florida, Fort Lauderdale Division.

In the event Contractor is a corporation organized under the laws of any province of Canada or is a Canadian federal corporation, the City may enforce in the United States of America or in Canada or in both countries a judgment entered against the Contractor. The Contractor waives any and all defenses to the City's enforcement in Canada of a judgment entered by a court in the United States of America.

V. Amendments

No modification, amendment, or alteration in the terms or conditions contained herein shall be effective unless contained in a written document prepared with the same or similar formality as this Agreement and executed by the Mayor-Commissioner and/or City Manager, as determined by City Charter and Ordinances, and Contractor or others delegated authority to or otherwise authorized to execute same on their behalf.

W. Prior Agreements

This document represents the final and complete understanding of the parties and incorporates or supersedes all prior negotiations, correspondence, conversations, agreements, and understandings applicable to the matters contained herein. The parties agree that there is no commitment, agreement, or understanding concerning the subject matter of this Agreement that is not contained in this written document. Accordingly, the parties agree that no deviation from the terms hereof shall be predicated upon any prior representation or agreement, whether oral or written.

X. Payable Interest

Except as required and provided for by the Florida Local Government Prompt Payment Act, City shall not be liable for interest for any reason, whether as prejudgment interest or for any other purpose, and in furtherance thereof Contractor waives, rejects, disclaims and surrenders any and all entitlement it has or may have to receive interest in connection with a dispute or claim based on or related to this Agreement.

Y. Representation of Authority

Each individual executing this Agreement on behalf of a party hereto hereby represents and warrants that he or she is, on the date he or she signs this Agreement, duly authorized by all necessary and appropriate action to execute this Agreement on behalf of such party and does so with full legal authority.

Z. Uncontrollable Circumstances ("Force Majeure")

The City and Contractor will be excused from the performance of their respective obligations under this agreement when and to the extent that their performance is delayed or prevented by any circumstances beyond their control including, fire, flood, explosion, strikes or other labor disputes, act of God or public emergency, war, riot, civil commotion, malicious damage, act or omission of any governmental authority, delay or failure or shortage of any type of transportation, equipment, or service from a public utility needed for their performance, provided that:

1. The non performing party gives the other party prompt written notice describing the particulars of the Force Majeure including, but not limited to, the nature of the occurrence and its expected duration, and continues to furnish timely reports with respect thereto during the period of the Force Majeure;

2. The excuse of performance is of no greater scope and of no longer duration than is required by the Force Majeure;

3. No obligations of either party that arose before the Force Majeure causing the excuse of performance are excused as a result of the Force Majeure; and

4. The non-performing party uses its best efforts to remedy its inability to perform. Notwithstanding the above, performance shall not be excused under this Section for a period in excess of two (2) months, provided that in extenuating circumstances, the City may excuse performance for a longer term. Economic hardship of the Contractor will not constitute Force Majeure. The term of the agreement shall be extended by a period equal to that during which either party's performance is suspended under this Section.

AA. Scrutinized Companies

Subject to *Odebrecht Construction, Inc., v. Prasad*, 876 F.Supp.2d 1305 (S.D. Fla. 2012), *affirmed, Odebrecht Construction, Inc., v. Secretary, Florida Department of Transportation*, 715 F.3d 1268 (11th Cir. 2013), with regard to the "Cuba Amendment," the Contractor certifies that it is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2017), that it is not engaged in a boycott of Israel, and that it does not have business operations in Cuba or Syria, as provided in section 287.135, Florida Statutes (2017), as may be amended or revised. The City may terminate this Agreement at the City's option if the Contractor is found to have submitted a false certification as provided under subsection (5) of section 287.135, Florida Statutes (2017), as may be amended or revised, or been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or the Scrutinized Companies that Boycott Israel List created pursuant to Section 215.4725, Florida Statutes (2017), or is engaged in a boycott of Israel or has been engaged in business operations in Cuba or Syria, as defined in Section 287.135, Florida Statutes (2017), as may be amended or revised.

BB. Public Records

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT CITY CLERK'S OFFICE, 100 N. ANDREWS AVENUE, FORT LAUDERDALE, FLORIDA, 33301, PHONE: 954-828-5002, EMAIL: PRRCONTRACT@FORTLAUDERDALE.GOV.

Contractor shall:

1. Keep and maintain public records that ordinarily and necessarily would be required by the City in order to perform the service.

2. Upon request from the City's custodian of public records, provide the City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes (2017), as may be amended or revised, or as otherwise provided by law.

3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of this contract

if the Contractor does not transfer the records to the City.

4. Upon completion of the Contract, transfer, at no cost, to the City all public records in possession of the Contractor or keep and maintain public records required by the City to perform the service. If the Contractor transfers all public records to the City upon completion of this Contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of this Contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City, upon request from the City's custodian of public records, in a format that is compatible with the information technology systems of the City.

[THE REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, the City and the Contractor execute this Contract as follows:

ATTEST:

Jeffrey A. Modarelli, City Clerk

CITY OF FORT LAUDERDALE

By: _____
Lee R. Feldman, City Manager

Approved as to form: Interim
~~Cynthia A. Everett~~, City Attorney
Alain E. Boileau

Assistant City Attorney

WITNESSES:

Signature
Chase Rogers
Print Name

Signature
Marcy Cohanas
Print Name

(CORPORATE SEAL)

Hinterland Group Inc.

By: _____
Daniel A. Duke III, President

STATE OF Florida :
COUNTY OF Palm Beach :

The foregoing instrument was acknowledged before me this 3rd day of April, 2018, **by Daniel A. Duke, III as President for Hinterland Group Inc., a Florida corporation.**

(SEAL)

Heather Crossman
NOTARY PUBLIC
STATE OF FLORIDA
Comm# FF911573
Expires 8/20/2019

(Signature of Notary Public)
Notary Public, State of Florida

HEATHER CROSSMAN
(Print, Type, or Stamp Commissioned Name of Notary Public)

Personally Known ✓ OR Produced Identification _____
Type of Identification Produced _____

Hinterland Group, Inc.

Bid Contact **Daniel Duke III**
info@hinterlandgroup.com
Ph 321-633-7066
Fax 561-640-3504

Address **5580 S.R. 524**
Cocoa, FL 32926

Item #	Line Item	Notes	Unit Price	Qty/Unit		Attch.	Docs
12101-383--01-01	Scheduled Pumping Day Rate	**Supplier Product Code:** **Can you meet the delivery requirements?**: yes **Are the trucks a min. of 4000 gallons?**: yes **Can you provide a min. of 6 trucks?**: yes	**First Offer -** $345.00	1 / hour	**$345.00**	Y	Y
12101-383--01-02	Scheduled Pumping Evening Rate	**Supplier Product Code:** **Can you meet the delivery requirements?**: yes	**First Offer -** $495.00	1 / hour	**$495.00**		Y
12101-383--01-03	Scheduled Pumping Weekend/Holiday Rate	**Supplier Product Code:** **Can you meet the delivery requirements?**: yes	**First Offer -** $525.00	1 / hour	**$525.00**		Y
12101-383--01-04	Unscheduled Pumping Day Rate	**Supplier Product Code:** **Can you meet the delivery requirements?**: yes	**First Offer -** $345.00	1 / hour	**$345.00**		Y
12101-383--01-05	Unscheduled Pumping Evening Rate	**Supplier Product Code:** **Can you meet the delivery requirements?**: yes	**First Offer -** $495.00	1 / hour	**$495.00**		Y
12101-383--01-06	Unscheduled Pumping Weekend/Holiday Rate	**Supplier Product Code:** **Can you meet the delivery requirements?**:	**First Offer -** $525.00	1 / hour	**$525.00**		Y

yes

Supplier Total **$2,730.00**

BID/PROPOSAL CERTIFICATION

Please Note: If responding to this solicitation through BidSync, the electronic version of the bid response will prevail, unless a paper version is clearly marked **by the bidder** in some manner to indicate that it will supplant the electronic version. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state,
in accordance with Florida Statute §607.1501 (visit http://www.dos.state.fl.us/).

Company: (Legal Registration) **Hinterland Group, Inc.**

Address: **992 W 15th Street**

City: **Riviera Beach** State: **Florida** Zip: **33404**

Telephone No. **561-640-3503** FAX No. **321-633-7067** Email: **info@hinterlandgroup.com**

Delivery: Calendar days after receipt of Purchase Order **(section 1.02 of General Conditions): per contract**
Total Bid Discount **(section 1.05 of General Conditions): 0.00**
Does your firm qualify for MBE or WBE status **(section 1.09 of General Conditions)**: MBE ☐ WBE ☐

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued

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VARIANCES: If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A. **If submitting your response electronically through BIDSYNC you must also click the "Take Exception" button.**

N/A

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars ($500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance

contained in this competitive solicitation.

Submitted by:

Daniel Duke III Name (printed)	**Daniel Duke III** Signature
02/09/2018 Date:	**President** Title

2051 W Blue Heron Blvd
Riveria Beach, FL 33404
accounting@hinterlandgroup.com

Invoice

Date	Invoice #
11/18/2020	20-0352-01RF

Project # 20-0352-01
Project Name: Dania-Emerg Vactor Services

Bill To

Dania Beach
1201 Stirling Rd.
Dania Beach, FL 33004

Customer ID	Contact	Purchase Order	Customer Job #	Due Date
DANIABEAC1	Antoine Johnson/Dincer Ozaydin	NO PO Emergency		**11/30/2020**

Item #	Description	Qty	Unit	Rate	Amount
	LI#01				
1	Scheduled Pumping #1 Vactor Truck				
	11/9- 3hrs	3.00	HR	345.00	1,035.00
	11/10- 9hrs	9.00	HR	345.00	3,105.00
	11/11- 13 hrs	13.00	HR	345.00	4,485.00
2	Scheduled Pumping #2 Vactor Truck				
	11/9- 3hrs	3.00	HR	345.00	1,035.00
	11/10- 9 hrs	9.00	HR	345.00	3,105.00
	11/11- 13hrs	13.00	HR	345.00	4,485.00
3	Scheduled Pumping #3 Vactor Truck				
	11/10- 7 hrs	7.00	HR	345.00	2,415.00
	11/11- 10hrs	10.00	HR	345.00	3,450.00
4	Scheduled Pumping #4 Vactor Truck				
	11/10- 7hrs	7.00	HR	345.00	2,415.00
	11/11- 10hrs	10.00	HR	345.00	3,450.00
5	Scheduled Pumping #1- Pump				
	11/10- 16 hrs	16.00	HR	345.00	5,520.00
	11/11- 24hrs	24.00	HR	345.00	8,280.00
	11/12- 7 hrs	7.00	HR	345.00	2,415.00
6	Scheduled Pumping #2 Pump				
	11/10- 16hrs	16.00	HR	345.00	5,520.00
	11/11- 24hrs	24.00	HR	345.00	8,280.00
	11/12- 7hrs	7.00	HR	345.00	2,415.00
7	Scheduled Pumping #3 Pump				
	11/10- 16hrs	16.00	HR	345.00	5,520.00
	11/11-24hrs	24.00	HR	345.00	8,280.00
	11/12 -7hrs	7.00	HR	345.00	2,415.00
				Amount Billed	**$77,625.00**

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Consent Agenda

Continued from:

Requested Action (Identify appropriate Action or Motion)
APPROVE THE RESOLUTION AUTHORIZING THE EXPENDITURE OF FUNDS FOR SERVICES TO BE PROVIDED BY AMC SURVEILLANCE CAMERA & ELECTRONICS, INC., AND AUTHORIZING THE CITY TO EXCEED THE ANNUAL VENDOR THRESHOLD TOTAL AMOUNT OF TWENTY-FIVE THOUSAND DOLLARS ($25,000.00) TO PROCURE MAINTENANCE OF THE CITY'S SURVEILLANCE CAMERA SYSTEM.

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
C-MEMO-AMC Surveillance Exceed 25K, R-2020- AMC Surveillance Camera & Electronics, Inc. Authorization for Services and to Exceed $25K

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

VIA: Ana M. Garcia, ICMA- CM, City Manager

FROM: Frank L. DiPaolo, Finance Director

RE: **Approval of a resolution providing authorization to exceed the City's annual vendor threshold of $25,000 for AMC Surveillance for Fiscal Year 2020-21.**

Request

The Finance Department is requesting authorization to exceed the City's annual vendor threshold of $25,000 for AMC Surveillance for Fiscal Year 2020-21.

Background

AMC Surveillance is the City's primary maintenance provider for the City's surveillance camera system. They are a reliable local company that has provided exemplary service to the City for several years.

The Fiscal Year 2020-21 budget includes funding for maintenance and updates to the surveillance camera infrastructure. It is anticipated that the total combined purchases from AMC Surveillance during FY2020-21 will exceed the $25,000 vendor threshold, requiring City Commission approval.

Budgetary Impact

None. All purchases from AMC Surveillance for Fiscal Year 2020-21 are made within the respective departments' budgetary appropriations.

Recommendation

The Finance Department recommends approval of the resolution providing authorization to exceed the City's annual vendor threshold of $25,000 for AMC Surveillance for Fiscal Year 2020-21.

RESOLUTION 2020-147

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE EXPENDITURE OF FUNDS FOR SERVICES TO BE PROVIDED BY AMC SURVEILLANCE CAMERA & ELECTRONICS, INC., AND AUTHORIZING THE CITY TO EXCEED THE ANNUAL VENDOR THRESHOLD TOTAL AMOUNT OF TWENTY-FIVE THOUSAND DOLLARS ($25,000.00) TO PROCURE MAINTENANCE OF THE CITY'S SURVEILLANCE CAMERA SYSTEM; PROCEEDING WITHOUT COMPETITIVE BIDDING AND AUTHORIZING SUCH PURCHASES, PROVIDED THAT THEY ARE MADE WITHIN THE RESPECTIVE DEPARTMENTS' APPROVED ANNUAL BUDGET APPROPRIATIONS; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Charter of the City of Dania Beach, Part III, Article 3, Section 4, Subsection (j), authorizes the City Manager to purchase supplies, services, equipment and materials for the City government in amounts in excess of the established monetary threshold without competitive bidding and without advertisement for bids if she is authorized to do so in advance by a resolution adopted by the City Commission; and

WHEREAS, the Dania Beach Code of Ordinances, Chapter 2, Article 1, Section 2-10, "Monetary thresholds for certain purchases and payment disbursement authorizations", Subsection (a), sets the monetary threshold at $25,000.00 for a vendor each fiscal year; and

WHEREAS, the Fiscal Year 2020-21 budget includes funding for maintenance and updates to the surveillance camera infrastructure; and

WHEREAS, AMC Surveillance Camera & Electronics, Inc. is the City's primary maintenance provider for the City's surveillance camera system, and they are intimately familiar with the City's systems and facilities, provide excellent service and are highly responsive to calls for service, are very competitive in pricing, and have done a number of other cabling and installation jobs at the City, separate from the surveillance system, due to their expertise in the field of data and cabling; and

WHEREAS, the total amount of purchases from AMC Surveillance for fiscal year 2020-21 will exceed the annual Twenty Five Thousand Dollars ($25,000.00) City purchase threshold for a single vendor and, therefore, City Commission approval is required; and

WHEREAS, the City Administration believes it is in the best interest of the City to have continuity in the installation and maintenance of the City-wide surveillance system;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the above "Whereas" clauses are ratified and confirmed, and they are made a part of and incorporated into this Resolution by this reference.

Section 2. That all purchases made from AMC Surveillance Camera & Electronics, Inc. shall be subject to approved annual budget appropriations and in accordance with the City's procurement policies and are authorized to exceed the annual amount of Twenty-Five Thousand Dollars ($25,000.00) purchase threshold for a single vendor.

Section 3. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 4. That this Resolution shall become effective upon its passage and adoption.

PASSED and ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Consent Agenda

Continued from:

Requested Action (Identify appropriate Action or Motion)
APPROVE THE RESOLUTION AUTHORIZING THE EXPENDITURE OF FUNDS FOR SERVICES TO BE PROVIDED BY BIS DIGITAL, INC.; AUTHORIZING THE CITY TO EXCEED THE CITY MANAGER'S ANNUAL VENDOR THRESHOLD OF TWENTY-FIVE THOUSAND DOLLARS ($25,000.00) TO PROCURE AUDIO, VIDEO AND BROADCASTING SERVICES.

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
C-MEMO-BIS-EXCEED25K FY21, R-2020- BIS Digital, Inc. Authorization for Services and to Exceed $25K for Audio, Video and Broadcasting Services, TIPS National Contract 190703, Quote DCR2 Itemized Rev 200408 PDF- City of Dania Beach (FL) Mic upgrade - Final, Quote DCR2 Itemized Rev 200408 PDF- City of Dania Beach (FL) BYOD - 20201124182722

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

VIA: Ana M. Garcia, ICMA- CM, City Manager

FROM: Frank L. DiPaolo, Finance Director

RE: **Approval of a resolution authorizing purchases from BIS Digital, Inc. that will exceed the City's annual vendor threshold of $25,000 for Fiscal Year 2020-21.**

Request

The Finance Department is requesting approval to purchase City Commission Chamber audio recording and streaming hardware, software, and related services using TIPS-USA national purchasing cooperative contract # 190703, and authorization to exceed the City's annual vendor threshold of $25,000 for BIS Digital, Inc. for Fiscal Year 2020-21.

Background

BIS Digital, Inc. (BIS) is the City's primary provider for audio and video recording and broadcasting for official meetings of the City Commission. They are a reliable local company that has provided exemplary service to the City of a number of years.

The Fiscal Year 2020-21 budget includes funding for the procurement and installation of a new audio system in the City Commission Chamber. BIS recently installed the new video system in the Chamber, phase I of the system upgrade. Phase II is for replacement and upgrading of the audio system, providing for improved audio capturing and streaming of official City meetings. The cost for this project is $25,997.51 and will also allow for integration with the electronic voting system, microphone controls for the Mayor/Chairperson, and additional wireless microphones in the Chamber.

Lastly, BIS has proposed installation of a Bring-Your-Own-Device (BYOD) presentation system, allowing for presenters to connect wirelessly to the Chamber audio/video system using their own computer or tablet, with no intervention from City staff. Additionally, this will allow for integration with virtual meeting software, facilitating seamless virtual public participation in meetings held in the Chamber. The cost for this system is $9,150.62 and the City will seek reimbursement through its Cares Act funding allocation.

Attachments

Resolution
Proposal for Audio System Upgrade
Proposal for BYOD Presentation System
TIPS National Contract #190703

Budgetary Impact

The audio system upgrade and BYOD presentation system will be funded through account # 001-17-04-516-64-10. Any other purchases from BIS for Fiscal Year 2020-21 will be made within the respective departments' budgetary appropriations.

Recommendation

The Finance Department requests approval of the resolution authorizing the purchase of City Commission Chamber audio recording and streaming hardware, software, and related services using TIPS-USA national purchasing cooperative contract # 190703, and authorization to exceed the City's annual vendor threshold of $25,000 for BIS Digital, Inc. for Fiscal Year 2020-21.

RESOLUTION 2020-148

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING THE EXPENDITURE OF FUNDS FOR SERVICES TO BE PROVIDED BY BIS DIGITAL, INC.; AUTHORIZING THE CITY TO EXCEED THE CITY MANAGER'S ANNUAL VENDOR THRESHOLD OF TWENTY-FIVE THOUSAND DOLLARS ($25,000.00) TO PROCURE AUDIO, VIDEO AND BROADCASTING SERVICES; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Charter of the City of Dania Beach, Part III, Article 3, Section 4, Subsection (j), authorizes the City Manager to purchase supplies, services, equipment and materials for the City government in amounts in excess of the established monetary threshold without competitive bidding and without advertisement for bids if authorized to do so in advance by a resolution adopted by the City Commission, if such purchases are made pursuant to a competitive bid obtained within the last eighteen (18) months by other governmental agencies such as the federal government, State of Florida or the Florida county or municipality; and

WHEREAS, the Dania Beach Code of Ordinances, Chapter 2, Article 1, Section 2-10, "Monetary thresholds for certain purchases and payment disbursement authorizations", Subsection (a), sets the monetary threshold at $25,000.00 for a vendor each fiscal year; and

WHEREAS, the Fiscal Year 2020-21 budget includes funding for the procurement and installation of a new audio system in the City Commission Chamber, providing for improved audio capturing and streaming of official City meetings; and

WHEREAS, the City desires to procure a Bring-Your-Own-Device (BYOD) presentation system, allowing for presenters to connect wirelessly to the Chamber audio/video system using their own computer or tablet, further, allowing for integration with virtual meeting software, facilitating seamless virtual public participation in meetings held in the Chamber, and for which the City will seek reimbursement through its Cares Act funding allocation; and

WHEREAS, BIS Digital, Inc. is the provider for the City's audio and video recording and broadcasting systems for official meetings of the City Commission; and

WHEREAS, the Finance Director has determined that the hardware, software, and related services can be obtained at the least cost to the City, without competitive bidding and without advertisement for bids, from BIS Digital, Inc. under its existing TIPS National Cooperative

contract #190703, a copy of which is made a part of and incorporated into this Resolution by this reference;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the above "Whereas" clauses are ratified and confirmed, and they are made a part of and incorporated into this Resolution by this reference.

Section 2. That all purchases made from BIS Digital, Inc. shall be subject to approved annual budget appropriations and in accordance with the City's procurement policies, and are authorized to exceed the annual amount of Twenty-Five Thousand Dollars ($25,000.00), the purchase threshold for a single vendor.

Section 3. That total funding in the amount of Thirty Five Thousand One Hundred Forty Eight Dollars and Thirteen Cents ($35,148.13) for the new audio system and the BYOD system is appropriated in account #001-17-04-516-64-10, and the City will seek reimbursement for the BYOD system through its Cares Act funding allocation.

Section 4. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 5. That this Resolution shall become effective upon its passage and adoption.

PASSED and ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

Printed 24 November 2020

www.bisdigital.com

BIS Digital Business Information Systems

EMAIL PO & VENDOR QUOTE TO: TIPSPO@TIPS-USA.COM PO AND QUOTE MUST REFERENCE VENDOR'S TIPS CONTRACT NUMBER ATTACH PO AS A PDF - ONLY ONE PO (WITH QUOTE) PER ATTACHMENT

PAYMENT TO		TIPS CONTACT	
ADDRESS	1350 NE. 56th Street Ste 300	NAME	Meredith Barton
CITY	Ft Lauderdale	PHONE	(866) 839-8477
STATE	FL	FAX	(866) 839-8472
ZIP	33334	EMAIL	tips@tips-usa.com

DISADVANTAGED/MINORITY/WOMAN BUSINESS No

HUB No

SERVING STATES

AL | AK | AZ | AR | CA | CO | CT | DE | DC | FL | GA | HI | ID | IL | IN | IA | KS | KY | LA | ME | MD | MA | MI | MN | MS | MO | MT | NE | NV | NH | NJ | NM | NY | NC | ND | OH | OK | OR | PA | RI | SC | SD | TN | TX | UT | VT | VA | WA | WI | WV | WY

Overview

BIS Digital is a full service AV integrator that also provides specialized digital recording products. Our primary region is the eastern US, Arkansas and Texas with the entire US and outlier areas as secondary region

AWARDED CONTRACTS "View EDGAR Doc" on Website

Contract	Comodity	Exp Date	EDGAR
190703	Video and Audio Equipment, Presentation Systems, Production	09/30/2022	CFV

CONTACTS BY CONTRACTS

190703

Jade Coldren	National Sales Mgr	(800) 834-7674	jade.coldren@bisdigital.com
Jack Farguson	Texas Acct Mgr	(800) 834-7674	jack.farguson@bisdigital.com

November 25, 2020

Monica Terrazas
City of Dania Beach (FL)
100 West Dania Beach Blvd.
P.O. Box 1708
Dania Beach, Fl 33004

RE: City of Dania Beach (FL) Mic upgrade

Dear Monica Terrazas

Thank you for the opportunity to submit a quotation for the product supply, installation and training of our DCR2 multi-channel audio video recording solution.

BIS Digital provides a total turnkey solution based on your needs and requirements which includes design, programming, installation as well as training with on-going support and service. Our ability to design and implement a fully integrated A/V workflow solution around the DCR standardized product family makes BIS unique.

Please don't hestitate to contact me with any questions or concerns.

Sincerely,

Michael Hernandez
Account Manager
800-834-7674 Ext 4040
michael.hernandez@bisdigital.com

BIS Digital – DCR2 Integrated Solution

Account City of Dania Beach (FL)
Quote Number Q-8016647-11.25.2020
Opportunity Name City of Dania Beach (FL) Mic upgrade

About BIS Digital

BIS Digital is a technology company which provides integrated digital recording and multi-media communications solutions. We "capture the record" with complete multi-channel audio and video digital recording systems customized to meet client needs. Our technology helps administrators easily manage meetings and presentations. We work with award-winning manufacturers to bring you the latest in AV technology.

We design systems with fully integrated audio and video capabilities for optimal workflow and efficiency. Founded in 1982, BIS Digital has the knowledge and experience gained through our large customer base to build the perfect AV system from concept to completion. We handle everything from planning and design to installation and service. Moreover, we'll make sure staff is properly trained on using the system to master its operation.

Our solutions include:

- Multi-channel audio and video recording
- Sound systems
- Presentation systems
- Meeting management
- Video conferencing
- Web hosting
- Enterprise room control
- Language translation connectivity

Onsite service or remote service agreements may be included within this proposal or are available upon request. Multiple-year service agreements are also available.

Date Wednesday, November 25, 2020

Quote Number Q-8016647-11.25.2020
City of Dania Beach (FL) Mic upgrade

Sales Consultant Michael Hernandez, Account Manager
800-834-7674 Ext 4040 / michael.hernandez@bisdigital.com

Primary Contact Monica Terrazas, IT systems tech
100 West Dania Beach Blvd.
P.O. Box 1708
Dania Beach, Fl 33004
(954) 924-6800 x 3737 / (954) 921-2604 (Fax)
mterrazas@daniabeachfl.gov (Email)

Billing Address City of Dania Beach (FL) / A-1000063
100 West Dania Beach Blvd.
P.O. Box 1708
Dania Beach, Fl 33004

Shipping Address _____

Users To Train _____

Wiring Required Yes

Installation Notes _____

Item	Code	Qty	Unit Price	Total Price
Professional Digital 4ch PA Mixer DANTE Capable w/8ch USB out and POTS/VoIP Interface	BIS-MX-DAN-USB8PV4	1	$2,998.00	$2,998.00
DANTE Virtual Sound Card (up to 64ch)	BIS-DANTE-V64	1	$119.99	$119.99
Conference System | Audio Engine | w/ Dante Card | Series 3	BIS-CONF-AUWD-S3	1	$4,414.00	$4,414.00
Conference System | Browser Interface License | Series 3	BIS-CONF-CON-BIL-S3	1	$2,730.00	$2,730.00
Conference System | Wired Discussion Unit | w/ Voting LED Screen | Series 3	BIS-CONF-UNIT-VS-S3	5	$883.00	$4,415.00

Conference System | 16" Gooseneck Microphone w/ LED Ring | Series 3	BIS-CONF-16GN-LEDR-S3	5	$150.00	$750.00
Conference System | Wireless Conference Access Point (G3) | Series 3	BIS-CONF-WCAP-S3	1	$3,536.00	$3,536.00
Conference System | Wireless Delegate Unit (DDG3) | Series 3	BIS-CONF-WDU-DDG3-S3	2	$970.00	$1,940.00
Conference System | 16" Gooseneck Microphone w/ LED Ring | Series 3	BIS-CONF-16GN-LEDR-S3	2	$165.00	$330.00
Conference System | Battery Pack for Wireless Chairman & Delegate Unit | Series 3	BIS-CONF-BP-WDCU-S3	2	$291.00	$582.00
Power Distribution System (Series 2)	BIS-PWR-DIST-S2	1	$179.00	$179.00
USB 2.0 to HDMI Video Output Adapter	BIS-USB2-HDMI-VOA	1	$75.00	$75.00
CAT6 Cable | Shielded | Black | 1000'	BIS-W-CAT6-SHB-1000	1	$990.00	$990.00
Conference System | 16' Patch Cable | Series 3	BIS-CONF-16PC-S3	5	$30.00	$150.00
USB Gigabit NIC (10/100/1000)	BIS-NIC-GB	1	$59.99	$59.99
DUAL CAT5E CONFIGURED WALL PLATE	BIS-CAT-WP2	4	$11.20	$44.80
CAT6 Patch Cable (10ft.)	BIS-CAT6-PC10	9	$17.40	$156.60
CAT6 Patch Cable (3ft.)	BIS-CAT6-PCN200-003-BK	1	$5.25	$5.25
CAT6 Patch Cable (5ft.)	BIS-CAT6-PC5	4	$10.50	$42.00
LAN Kit 36/75	TK-CON-CAT6-Kit3	1	$270.00	$270.00
Installation Supplies	BIS-INST-SUP	1	$349.96	$349.96
On-site Setup, Installation and Training	SIT	1	$3,500.00	$3,500.00
Shipping/Handling	S/H	1	$699.92	$699.92
TIPS Contract # 190703	DISCOUNT	1	($2,340.00)	($2,340.00)

			Sales Tax Rate	_____%
			Total (Excluding Sales Tax)	$25,997.51

Optimal Specifications for BIS Digital Recording PC Systems

DCR2 Specifications

2/4 Channel Audio Only

- 8GB RAM
- 512GB SSD Hard Drive
- Intel Core i5 Processor
- Ethernet RJ-45 Network Interface 100/1000 (x2 if using DANTE protocol)
- USB 3.0 Ports
- Microsoft Windows 10 Professional

4/8 Channel Audio or Audio and Video

- 16GB RAM
- 1TB SSD Hard Drive
- Intel Core i7 Processor
- Ethernet RJ-45 Network Interface 100/1000 (x2 if using DANTE protocol)
- USB 3.0 Ports
- Microsoft Windows 10 Professional

All specifications are subject to change without notice. All computers sourced from third parties must first be approved by BIS Digital prior to purchase.

Live Stream & On-Demand Requirements

- BIS Digital, Inc. recommends customer can transmit continuous stream of 300kbps or more for optimal performance.

Equipment Supply

BIS Digital will furnish the equipment as specified herein. Revisions to this contract are made by approved written "Change Order". BIS reserves the right to bill for equipment as stored materials when delivery or installation is not possible. There are no additional implied or expressed operations of the system other than stated within.

Electrical Installation

The customer provided electrical contractor will install all AC power, relay switches & conduit as required for the proposed systems. If required, the customer provided electrician will be responsible for providing and hanging all rigid electrical junction boxes, conduit and installing same. BIS Digital has recommended and asked for Dedicated Electrical Power to be installed at `the head-end, controlled end-user equipment or at the same location of final control(s). Dedicated Power shall be the

responsibility of the end-user and any external noise or factors creating noise within the systems not exposed by installed electronic equipment shall not be BIS Digital, Inc. responsibility and shall not be reason for any hold-backs whatsoever by any party.

Equipment Installation and Head End Connections

BIS Technicians will install all specified equipment and make all final circuit terminations in the head-end equipment racks. The customer will provide all custom carpentry or custom room preparations as required prior to the installation. The customer will provide scaffold or high reach for all installation work in ceilings over fourteen feet. All network connection(s) are to be provided by the customer. Any changes, alterations or deviations from the Equipment and installation obligations specified herein involving extra cost for labor or material will be executed only on written orders for the same. The cost of any added labor or material will become an extra charge over and above the total specified on the Agreement.

Order Summary

Date	Wednesday, November 25, 2020
Quote Number	Q-8016647-11.25.2020
Account Name	City of Dania Beach (FL)
Total (Excluding Sales Tax)	$25,997.51

Terms and Conditions

Effective Period	This proposal is a firm offer for 30 days from quote date Wednesday, November 25, 2020.
Tax Status	Sales tax will be added to invoice unless Tax Exempt Form is on file with BIS Digital.
Payment Terms	**Deposit**: All orders above $5,000 require a 50% deposit. Once the order and deposit is confirmed (received) by BIS Digital, scheduling of the installation / and shipment of goods will occur. **Balance:** The remaining balance is to be paid on the completion of the installation (delivery of goods at customer site.)
Install Cancellation	If customer cancels (or postpones) a mutually agreed upon installation date, BIS Digital reserves the right to ship to customer and invoice for hardware, software or other materials procured for the project.
Restocking Fee	20% restocking fee will be charged for all cancelled orders
Site Preparation	Customer is required to supply all conduit and cable pulls not listed on this quote. Customer will be responsible for any additional wiring or installation supplies needed during installation.
Training	BIS Digital will provide full training of all system users per agreed training schedule.
Limited Warranty	All BIS supplied new systems (Hardware & Software) are covered for 90 days following date of installation/delivery. Warranty does not cover On-Site Technical Support, Shipping costs, or Software upgrades (See Software Assurance below).
Software Assurance	Annual Software Assurance entitles user to unlimited software upgrades throughout the one year term, at the cost of $350 per license/year.

This signature and Purchase Order number states acceptance to the above price, terms and conditions, authorizing BIS Digital, Inc. to order, install and bill for the above equipment:

*** Accepted by**: _____ _____

Name Title

_____ _____

Signature Date

*** Accounts Payable Information** **<u>* Required for order to be processed*</u>**

A/P Contact: _____ _____

Name Phone Number

_____ _____

Email Address Fax #

Is a Purchase Order required for processing? _____ PO # _____

November 24, 2020

Monica Terrazas
City of Dania Beach (FL)
100 West Dania Beach Blvd.
P.O. Box 1708
Dania Beach, Fl 33004

RE: City of Dania Beach (FL) BYOD

Dear Monica Terrazas

Thank you for the opportunity to submit a quotation for the product supply, installation and training of our DCR2 multi-channel audio video recording solution.

BIS Digital provides a total turnkey solution based on your needs and requirements which includes design, programming, installation as well as training with on-going support and service. Our ability to design and implement a fully integrated A/V workflow solution around the DCR standardized product family makes BIS unique.

Please don't hestitate to contact me with any questions or concerns.

Sincerely,

Michael Hernandez
Account Manager
800-834-7674 Ext 4040
michael.hernandez@bisdigital.com

BIS Digital – DCR2 Integrated Solution

Account City of Dania Beach (FL)
Quote Number Q-8016709-11.24.2020
Opportunity Name City of Dania Beach (FL) BYOD

About BIS Digital

BIS Digital is a technology company which provides integrated digital recording and multi-media communications solutions. We "capture the record" with complete multi-channel audio and video digital recording systems customized to meet client needs. Our technology helps administrators easily manage meetings and presentations. We work with award-winning manufacturers to bring you the latest in AV technology.

We design systems with fully integrated audio and video capabilities for optimal workflow and efficiency. Founded in 1982, BIS Digital has the knowledge and experience gained through our large customer base to build the perfect AV system from concept to completion. We handle everything from planning and design to installation and service. Moreover, we'll make sure staff is properly trained on using the system to master its operation.

Our solutions include:

- Multi-channel audio and video recording
- Sound systems
- Presentation systems
- Meeting management
- Video conferencing
- Web hosting
- Enterprise room control
- Language translation connectivity

Onsite service or remote service agreements may be included within this proposal or are available upon request. Multiple-year service agreements are also available.

Date Tuesday, November 24, 2020

Quote Number Q-8016709-11.24.2020
City of Dania Beach (FL) BYOD

Sales Consultant Michael Hernandez, Account Manager
800-834-7674 Ext 4040 / michael.hernandez@bisdigital.com

Primary Contact Monica Terrazas, IT systems tech
100 West Dania Beach Blvd.
P.O. Box 1708
Dania Beach, Fl 33004
(954) 924-6800 x 3737 / (954) 921-2604 (Fax)
mterrazas@daniabeachfl.gov (Email)

Billing Address City of Dania Beach (FL) / A-1000063
100 West Dania Beach Blvd.
P.O. Box 1708
Dania Beach, Fl 33004

Shipping Address _____

Users To Train _____

Wiring Required No

Installation Notes _____

Item	Code	Qty	Unit Price	Total Price
19" Single Rack Shelf for BIS-CYNAP-CORE	BIS-CYNAP-CRS	1	$280.00	$280.00
1U Rack Shelf (Series 2)	BIS-RSLF-1S2	1	$79.99	$79.99
Annotation Presentation System w/Wireless Link (Core Series 2)	BIS-CYNAP-CORE	1	$2,950.00	$2,950.00
CAT6 Cable BK (Plenum) - 1,000ft Roll	BIS-W-CAT6	1	$599.00	$599.00
CAT6 Patch Cable (10ft.)	BIS-CAT6-PC10	5	$17.40	$87.00
CAT6 Patch Cable (5ft.)	BIS-CAT6-PC5	5	$10.50	$52.50

DANTE USB I/O Adapter (2ch)	BIS-USB-DANTE-2CHIO	1	$135.00	$135.00
DUAL CAT5E CONFIGURED WALL PLATE	BIS-CAT-WP2	3	$11.20	$33.60
HDMI Cable Series 2 (10ft.)	BIS-HDMI-10FT-S2	1	$18.30	$18.30
HDMI Cable Series 2 (6ft.)	BIS-HDMI-6FT-S2	5	$12.45	$62.25
HDMI Distribution Amplifier 1in|2out (Series 3)	BIS-HDMI-DA-1|2S3	1	$340.00	$340.00
HDMI over CAT6 Extender (Series 2)	BIS-HDMI-EXT6-S2	1	$480.00	$480.00
IP Video Decoder w/Multiview	BIS-VC-IP-VDMV	1	$625.00	$625.00
Installation Supplies	BIS-INST-SUP	1	$100.66	$100.66
LAN Kit 12/25	TK-CON-CAT6-Kit1	1	$90.00	$90.00
Power Distribution System (Series 2)	BIS-PWR-DIST-S2	1	$179.00	$179.00
USB Video Capture Device (Series 2) *not Composite*	BIS-USB-VCD-S2	1	$449.00	$449.00
Rack Enclosure (4U)	BIS-R-4U	1	$250.00	$250.00
On-site Setup, Installation and Training	SIT	1	$2,800.00	$2,800.00
Shipping/Handling	S/H	1	$201.32	$201.32
TIPS Contract # 190703	DISCOUNT	1	($662.00)	($662.00)
			Sales Tax Rate	_____%
			Total (Excluding Sales Tax)	$9,150.62

Optimal Specifications for BIS Digital Recording PC Systems

DCR2 Specifications

2/4 Channel Audio Only

- 8GB RAM
- 512GB SSD Hard Drive

- Intel Core i5 Processor
- Ethernet RJ-45 Network Interface 100/1000 (x2 if using DANTE protocol)
- USB 3.0 Ports
- Microsoft Windows 10 Professional

4/8 Channel Audio or Audio and Video

- 16GB RAM
- 1TB SSD Hard Drive
- Intel Core i7 Processor
- Ethernet RJ-45 Network Interface 100/1000 (x2 if using DANTE protocol)
- USB 3.0 Ports
- Microsoft Windows 10 Professional

All specifications are subject to change without notice. All computers sourced from third parties must first be approved by BIS Digital prior to purchase.

Live Stream & On-Demand Requirements

- BIS Digital, Inc. recommends customer can transmit continuous stream of 300kbps or more for optimal performance.

Equipment Supply

BIS Digital will furnish the equipment as specified herein. Revisions to this contract are made by approved written "Change Order". BIS reserves the right to bill for equipment as stored materials when delivery or installation is not possible. There are no additional implied or expressed operations of the system other than stated within.

Electrical Installation

The customer provided electrical contractor will install all AC power, relay switches & conduit as required for the proposed systems. If required, the customer provided electrician will be responsible for providing and hanging all rigid electrical junction boxes, conduit and installing same. BIS Digital has recommended and asked for Dedicated Electrical Power to be installed at `the head-end, controlled end-user equipment or at the same location of final control(s). Dedicated Power shall be the responsibility of the end-user and any external noise or factors creating noise within the systems not exposed by installed electronic equipment shall not be BIS Digital, Inc. responsibility and shall not be reason for any hold-backs whatsoever by any party.

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BIS Technicians will install all specified equipment and make all final circuit terminations in the head-end equipment racks. The customer will provide all custom carpentry or custom room preparations as required prior to the installation. The customer will provide scaffold or high reach for all installation work in ceilings over fourteen feet. All network connection(s) are to be provided by the customer. Any changes, alterations or deviations from the Equipment and installation obligations specified herein involving extra cost for labor or material will be executed only on written orders for the same. The cost

of any added labor or material will become an extra charge over and above the total specified on the Agreement.

Order Summary

Date	Tuesday, November 24, 2020
Quote Number	Q-8016709-11.24.2020
Account Name	City of Dania Beach (FL)
Total (Excluding Sales Tax)	$9,150.62

Terms and Conditions

Effective Period	This proposal is a firm offer for 30 days from quote date Tuesday, November 24, 2020.
Tax Status	Sales tax will be added to invoice unless Tax Exempt Form is on file with BIS Digital.
Payment Terms	**Deposit**: All orders above $5,000 require a 50% deposit. Once the order and deposit is confirmed (received) by BIS Digital, scheduling of the installation / and shipment of goods will occur. **Balance:** The remaining balance is to be paid on the completion of the installation (delivery of goods at customer site.)
Install Cancellation	If customer cancels (or postpones) a mutually agreed upon installation date, BIS Digital reserves the right to ship to customer and invoice for hardware, software or other materials procured for the project.
Restocking Fee	20% restocking fee will be charged for all cancelled orders
Site Preparation	Customer is required to supply all conduit and cable pulls not listed on this quote. Customer will be responsible for any additional wiring or installation supplies needed during installation.
Training	BIS Digital will provide full training of all system users per agreed training schedule.
Limited Warranty	All BIS supplied new systems (Hardware & Software) are covered for 90 days following date of installation/delivery. Warranty does not cover On-Site Technical Support, Shipping costs, or Software upgrades (See Software Assurance below).
Software Assurance	Annual Software Assurance entitles user to unlimited software upgrades throughout the one year term, at the cost of $350 per license/year.

This signature and Purchase Order number states acceptance to the above price, terms and conditions, authorizing BIS Digital, Inc. to order, install and bill for the above equipment:

*** Accepted by**: _____ _____

Name Title

_____ _____

Signature Date

*** Accounts Payable Information** **<u>* Required for order to be processed*</u>**

A/P Contact: _____ _____

Name Phone Number

_____ _____

Email Address Fax #

Is a Purchase Order required for processing? _____ **PO #** _____

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Consent Agenda

Continued from:

Requested Action (Identify appropriate Action or Motion)
ADOPT RESOLUTION AUTHORIZING AN APPROPRIATION OF FUNDS RELATING TO THE REMOVAL AND RELOCATION OF TWO WELCOME SIGNS FOR AN ESTIMATED AMOUNT OF TWENTY-EIGHT THOUSAND NINETY-FIVE DOLLARS ($28,095.00)

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
memo relocating welcome signs additional funding, R-2020- Welcome Signs Removal and Relocation Funding, Dania Beach Sign #1, Dania Beach Sign #2

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
MEMORANDUM

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager
Eleanor Norena, CFM, Community Development Director

Candido Sosa-Cruz
Digitally signed by Candido Sosa-Cruz
DN: cn=Candido Sosa-Cruz, o=City of Dania Beach, ou=City Manager, email=csosacruz@daniabeachfl.gov, c=US
Date: 2020.12.01 15:22:03 -05'00'

Eleanor Norena
Digitally signed by Eleanor Norena
DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US
Date: 2020.12.01 15:20:11 -05'00'

SUBJECT: **Approval of additional funding appropriation to relocate two (2) City Welcome Signs**

Request
The City Manager is requesting additional funding for expenditures from Don Bell Signs for the relocation of two of the city's welcome signs.

Background
On December 11, 2018, the City Commission awarded RFQ No. 18-013 (Signage Production and Replacement for City Rebranding Efforts) to Don Bell Signs. The contractor and Community Redevelopment Agency acquired all permitting from the required agencies to replace the City's existing welcome signs at their existing location. After the installation was complete, it was brought to our attention that the sign located on East Dania Beach Blvd was not located within the City jurisdiction. Staff researched the jurisdictional boundaries and confirmed that the sign should be moved approximately 920 feet west to be placed with in the City's boundaries.

After reviewing the location of all the newly installed welcome signs, staff has determined another sign located on Griffin Rd should also be relocated. Over the years the City has annexed additional properties creating a new western jurisdictional boundary. Staff is recommending the sign currently located on Griffin Rd be relocated approximately 4,141 feet west to accurately depict the City's jurisdiction.

Budgetary Impact
The City Manager is requesting a Purchase Order for Don Bell Signs in the amount of Twenty-Eight Thousand and Ninety-Five Dollars ($28,095) to cover the cost for removing and relocation two welcome signs.

The additional funding for these services will be allocated from the City Commission Contingency Account and will leave a remaining balance of $200,391.

Recommendation
Approve resolution for additional funding.

RESOLUTION NO. 2020-149

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AUTHORIZING AN APPROPRIATION OF FUNDS RELATING TO THE REMOVAL AND RELOCATION OF TWO WELCOME SIGNS FOR AN ESTIMATED AMOUNT OF TWENTY-EIGHT THOUSAND NINETY-FIVE DOLLARS ($28,095.00); PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, on December 11, 2018 the City Commission adopted Resolution No. 2020-095 for Signage Production and Replacement for Rebranding Efforts relating to the City Request for Qualifications (RFQ) NO. 18-013; and

WHEREAS, the City of Dania Beach currently has a work order with Don Bell Signs dated June 28, 2020 for the sign production and installation relating to the City's welcome signs; and

WHEREAS, due to locations of the City's jurisdictional boundaries, two of the newly installed welcome signs must be relocated to be fully located within City limits;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the above "Whereas" clauses are approved and incorporated into this Resolution by this reference.

Section 2. That the City Commission approves Twenty-Eight Thousand Ninety-Five Dollars ($28,095.00) in appropriations and expenditures incurred by the Community Redevelopment Agency for the removal and relocation of two welcome signs.

Section 3. That this Twenty-Eight Thousand Ninety-Five Dollars ($28,095.00) shall be appropriated from Commission Contingency Account Number 001-18-00-519-99-10.

Section 4. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 5. That this Resolution shall become effective immediately upon its passage and adoption.

PASSED and ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

365 Oak Place
Port Orange, FL 32127
386-788-8084
www.DonBellSigns.com

DON BELL
SIGNS LLC

10/23/2020

City of Dania Beach
3400 W. Commercial Blvd.
Ft. Lauderdale, Fl.
33309

Project and proposal:

Sign 1: Welcome sign on Dania Beach Boulevard East

1. **Don Bell Signs to secure necessary permits and engineering, remove sign 1, solar lighting in medians, removal of foundations and setup of lane blocking.**
2. **Re-install sign up to 2 miles from original locations. Re-install solar panel lighting, Remove and relocate existing Traffic sign, removal of the sign text "come back again soon", fill holes and paint.**
3. **Removal and Relocate with MOT lane**

#1 Price $13,949.00

Note: Additional costs will incur should there be any unforeseen delays on Don Bell's progress due to lack of response form Dania Beach or any of their representatives.

Thank you,

Frank Boanno
Accounts manager

Gary Bell
President

365 Oak Place
Port Orange, FL 32127
386-788-8084
www.DonBellSigns.com

DON BELL
SIGNS LLC

10/23/2020

City of Dania Beach
3400 W. Commercial Blvd.
Ft. Lauderdale, Fl.
33309

Project and proposal:

Sign 6: Welcome sign on Griffin Road West.

1. **Don Bell Signs to secure necessary permits and engineering, remove sign 6, solar lighting in medians, removal of foundations and setup of lane blocking.**
2. **Re-install sign up to 2 miles from original locations. Re-install solar panel lighting, Remove and relocate existing Traffic sign, removal of the sign text "come back again soon", fill holes and paint.**
3. **Removal and Relocate with MOT lane**

Breakdown Sign #6 Price $14,146.00

Note: Additional costs will incur should there be any unforeseen delays on Don Bell's progress due to lack of response form Dania Beach or any of their representatives.

Thank you,

Frank Boanno
Accounts manager

Gary Bell
President

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Consent Agenda

Continued from:

Requested Action (Identify appropriate Action or Motion)
ADOPT ORDINANCE REPEALING ARTICLE X ENTITLED “SMOKING RESTRICTIONS IN PUBLIC PARKS” OF CHAPTER 17 OF THE CITY CODE OF ORDINANCES (“OFFENSES; MISCELLANEOUS”), AND REPEALING CODE SECTION 17-30, ENTITLED, “SMOKING PROHIBITED IN CERTAIN AREAS OF PUBLIC PARKS"

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
Memo - smoking ban repeal, O-2021- Repealing Article X Smoking Restrictions in Public Parks of Ch. 17 and Sec. 17-30 Smoking Prohibited in Certain of Areas of Public Parks, FS 386-209

CITY OF DANIA BEACH
CITY ATTORNEY'S OFFICE

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Thomas J. Ansbro, City Attorney

Thomas J. Ansbro Digitally signed by Thomas J. Ansbro DN: cn=Thomas J. Ansbro, o=City of Dania Beach, ou=Legal Department, email=tansbro@daniabeachfl.gov, c=US Date: 2020.11.12 13:23:51 -05'00'

SUBJECT: Proposed Repeal of Smoking Restrictions in Public Parks Consistent with State law

---

The Request

Several years ago, the City of Dania Beach adopted an ordinance precluding residents and visitors from smoking in public parks. However, the Florida Legislature, by adopting Florida Statute Section 386.209, then preempted the regulation of smoking by cities and other agencies. As such, the City is precluded from enacting or enforcing any ordinance relating to such smoking as well as any related fines.

Background

The City of Dania Beach adopted Ordinance 2008-017, which precluded smoking in public parks. Due to the state preemption this now obsolete code provision should be repealed.

Budgetary Impact

There is no budgetary impact to this item.

Recommendation

It is recommended that the City Commission adopt the proposed ordinance repealing the City's local ordinance that has been preempted by the State Legislature. A proposed ordinance is attached.

TJA/la

cc: Ana M. Garcia, ICMA-CM, City Manager
Candido Sosa-Cruz, Assistant City Manager
Thomas Schneider, City Clerk
Eric Brown, Director, Parks and Recreation Department

Attachments: Florida Statute Section 386.209
Draft Ordinance – Repealing Provision

ORDINANCE NO. 2021-001

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, REPEALING ARTICLE X ENTITLED "SMOKING RESTRICTIONS IN PUBLIC PARKS" OF CHAPTER 17 OF THE CITY CODE OF ORDINANCES ("OFFENSES; MISCELLANEOUS"), AND REPEALING CODE SECTION 17-30, ENTITLED, "SMOKING PROHIBITED IN CERTAIN AREAS OF PUBLIC PARKS"; PROVIDING FOR SEVERABILITY; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City of Dania Beach adopted Ordinance 2008-017, which created an offense, Section 17-30, which precluded smoking in public parks; and

WHEREAS, the Florida Legislature enacted section 386.209, entitled "Regulation of smoking preempted to state," which preempted all local regulations relating to smoking; and

WHEREAS, the City's ordinance cannot be enforced and should be repealed.

BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA THAT:

Section 1. That Article X, entitled, "Smoking Restrictions in Public Parks" of Chapter 17, entitled "Offenses; Miscellaneous", and Section 17-30, entitled "Smoking Prohibited in Certain of Areas of Public Parks", of the City Code of Ordinances are repealed and shall read as follows:

ARTICLE X. ~~SMOKING RESTRICTIONS IN PUBLIC PARKS~~ RESERVED

Sec. 17-30. Reserved. ~~Smoking Prohibited in Certain Areas of Public Parks.~~

~~(a) It is unlawful for any person to smoke any tobacco product within the following park and recreational areas: upon or within fifty (50) feet of any playing field, court, rink, team seating area, dugout, bleacher, spectator area, playground, concession stand, recreation building or restroom.~~

~~(b) The prohibition of this Section shall not apply to any person smoking within a motor vehicle that is within a City park, whether or not located in a parking lot.~~

~~(c) A maximum fine of $50.00 is established for any violation of this Section.~~

Section 2. That if any section, clause, sentence or phrase of this Ordinance is for any reason held invalid or unconstitutional by a court of competent jurisdiction, the holding shall not affect the validity of the remaining portions of this Ordinance.

Section 3. That all ordinances or parts of ordinances in conflict with the provisions of this Ordinance are repealed.

Section 4. That this Ordinance shall take effect immediately at the time of passage and adoption.

PASSED on first reading on December 8, 2020.

PASSED and ADOPTED on second reading on _____, 2021.

ATTEST:

_____	_____
THOMAS SCHNEIDER, CMC	TAMARA JAMES
CITY CLERK	MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

_____

THOMAS J. ANSBRO
CITY ATTORNEY

386.209 Regulation of smoking preempted to state.—This part expressly preempts regulation of smoking to the state and supersedes any municipal or county ordinance on the subject; however, school districts may further restrict smoking by persons on school district property. This section does not preclude the adoption of municipal or county ordinances that impose more restrictive regulation on the use of vapor-generating devices than is provided in this part.

History.—s. 9, ch. 85-257; s. 8, ch. 92-185; s. 10, ch. 2003-398; s. 1, ch. 2011-108; s. 10, ch. 2019-14.

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CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Ordinance

Continued from:

Requested Action (Identify appropriate Action or Motion)
ADOPT ORDINANCE REPEALING SECTION 17-129, ENTITLED “ON-SITE SHOPPING CART RETENSION SYSTEM - REQUIRED,” OF ARTICLE IX, ALSO ENTITLED “ON-SITE SHOPPING CART RETENSION SYSTEM- REQUIRED,” OF CHAPTER 17, WHICH CHAPTER IS ENTITLED “OFFENSES-MISCELLANEOUS” OF THE CITY CODE OF ORDINANCES, AS THE REGULATION OF SHOPPING CARTS HAS BEEN PREEMPTED BY THE STATE

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
Memo - shopping cart repeal, O-2021- Repealing Sec. 17-129 On-Site Shopping Cart Retension System - Required of Art. IX of Ch. 17, F.S. 506.5131

CITY OF DANIA BEACH
CITY ATTORNEY'S OFFICE

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Thomas J. Ansbro, City Attorney Thomas J. Ansbro Digitally signed by Thomas J. Ansbro DN: cn=Thomas J. Ansbro, o=City of Dania Beach, ou=Legal Department, email=tansbro@daniabeachfl.gov, c=US Date: 2020.11.12 13:28:04 -05'00'

SUBJECT: Proposed Repeal of Shopping Cart Regulation – consistent with State law

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The Request

Over the years, many municipalities adopted ordinances requiring business owners to submit a prevention and retrieval plan for shopping carts or face fines for not doing so. However, the Florida Legislature, by adopting Florida Statute Section 506.5131 preempted local enforcement of such ordinances, and retroactively repealed all such municipal ordinances. Municipalities are precluded from requiring a shopping cart registry and precluded from imposing a fee, fine or cost against a shopping cart owner for failure to retrieve carts taken off premise.

Background

The City of Dania Beach adopted Ordinance 2006-015, which required businesses utilizing shopping carts to provide for an on-site shopping cart system, that would preclude removal of the carts from the property and would also impose enforcement measures against the business for violations of the City's ordinance. Due to the state preemption this now obsolete code provision should be repealed.

Budgetary Impact

There is no budgetary impact to this item.

It is recommended that the City Commission adopt the proposed ordinance repealing the local City ordinance that has been preempted by the State Legislature. A proposed ordinance is attached for repeal.

TJA/la

cc: Ana M. Garcia, ICMA-CM, City Manager
Candido Sosa-Cruz, Assistant City Manager
Thomas Schneider, City Clerk

Attachments: Florida Statute Section 506.5131
Ordinance – Repealing Provision

ORDINANCE NO. 2021-002

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, REPEALING SECTION 17-129, ENTITLED "ON-SITE SHOPPING CART RETENSION SYSTEM - REQUIRED," OF ARTICLE IX, ALSO ENTITLED "ON-SITE SHOPPING CART RETENSION SYSTEM-REQUIRED," OF CHAPTER 17, WHICH CHAPTER IS ENTITLED "OFFENSES-MISCELLANEOUS" OF THE CITY CODE OF ORDINANCES, AS THE REGULATION OF SHOPPING CARTS HAS BEEN PREEMPTED BY THE STATE; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City of Dania Beach adopted Ordinance 2006-015, which required businesses utilizing shopping carts to provide for an on-site shopping cart system that would preclude removal of the carts from the property and would also impose enforcement measures against the business for violations of the City's ordinance; and

WHEREAS, the Florida Legislature adopted Florida Statute 506.5131, which preempted localities from adopting or enforcing local legislation requiring a business owner to submit a prevention and retrieval plan for shopping carts and also precluded a municipality from imposing a monetary penalty for failing to submit such a plan; and

WHEREAS, to be consistent with state law, the City of Dania Beach is repealing Ordinance 2006-015, which was codified at Chapter 17, entitled "Offenses-Miscellaneous," at Article IX, entitled "On-Site Shopping Cart Retention System – Required," at Section 17-129, also entitled "On-Site Shopping Cart Retention System - Required.

BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That Article IX, entitled "On-Site Shopping Cart Retention System-Required," of Chapter 17, which Chapter is entitled "Offenses-Miscellaneous" of the City Code of Ordinances, is modified to read as follows:

ARTICLE IX- ~~ON-SITE SHOPPING CART RETENTION SYSTEM- REQUIRED~~ RESERVED

Section 17-129 ~~On-Site Shopping Cart Retention- System-Required~~ Reserved.

~~a. It is unlawful for any business establishment which uses twenty (20) or more shopping carts at any business location within the City to fail to install and maintain an on-site shopping cart retention system for the~~

~~location. A "shopping cart" is a device which consists of a basket mounted on a frame with wheels capable of being moved by a person, which device is generally and ordinarily found and used in a retail commercial business establishment by a customer or employee of the establishment for the purpose of transporting goods or merchandise from one place to another.~~

~~b. Each such business establishment shall post signs in conspicuous locations within the business establishment premises to notify shopping cart users that an on-site shopping cart retention system is in place. Such signs shall describe how the system operates.~~

~~c. Permitted methods of retention shall include any one of the following systems or methods:~~

~~1. a physical barrier or barriers may be installed, such as bollards, which restrict shopping carts to the main or primary entryway to the business;~~

~~2. shopping carts may be equipped with protruding devices, arms or similar devices, which operate to prohibit the cart from being removed from the interior of the business establishment;~~

~~3. a system may be used, which may be mechanical in nature, requiring a monetary deposit which is of a reasonable amount such that it does not deter usage of the cart but encourages return of the cart and allows for a refund of the deposit; or~~

~~4. a shopping cart wheel locking system may be used in conjunction with an electronic barrier along the perimeter of the business establishment premises; such a system causes the shopping cart wheels to lock when the cart approaches or crosses the barrier location by activating the electronic barrier.~~

~~(d) Any business establishment that does not provide one of the foregoing systems or methods shall be afforded a period of three (3) months from the effective date of this Article within which to comply.~~

~~(e) The owner or operator of any business establishment who or which fails to provide and maintain an on-site shopping cart retention system shall be in violation of this Article.~~

Section 2. That if any section, clause, sentence or phrase of this Ordinance is for any reason held invalid or unconstitutional by a court of competent jurisdiction, the holding shall not affect the validity of the remaining portions of this Ordinance.

Section 3. That all ordinances or parts of ordinances in conflict with the provisions of this Ordinance are repealed.

Section 4. That this Ordinance shall be effective immediately at adoption on second reading.

PASSED on first reading on December 8, 2020.

PASSED and ADOPTED on second reading on _____, 2021.

ATTEST:

_____	_____
THOMAS SCHNEIDER, CMC	TAMARA JAMES
CITY CLERK	MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

_____

THOMAS J. ANSBRO
CITY ATTORNEY

506.5131 Return of shopping carts; assessment of fees, fines, and costs.—
(1) The rightful owner of any shopping cart with a registered name or mark found on public property shall be immediately notified of its recovery.
(2) Notwithstanding any other provision of law or local ordinance, no fee, fine, or costs may be assessed against the owner of a shopping cart unless the shopping cart was found on public property and was removed from the premises or parking area of a retail establishment by the owner of the shopping cart, or an employee acting on the owner's behalf, and the fee, fine, or cost has been approved by the Department of Agriculture and Consumer Services. This subsection shall not apply to any ordinance adopted after January 31, 2002, and prior to June 30, 2002, that requires a business establishment to install a retention system to retain shopping carts within the real property boundaries of a business location.

History.—s. 12, ch. 98-396; s. 6, ch. 2006-165.

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Bids and Proposals

Continued from:

Requested Action (Identify appropriate Action or Motion)
TO APPROVE AND ADOPT A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AWARDING DISASTER DEBRIS MONITORING CONTRACTS IN THE PRIMARY, SECONDARY AND TERTIARY SERVICE PROVIDER CATEGORIES TO DEBRIS TECH LLC, ROSTAN SOLUTIONS LLC, AND BRENCO LLC, RESPECTIVELY; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE. *(Public Services)*

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
C-MEMO-DEBRISMONITORING-CMMTEE-AWARD-120820.docxx, R-2020- Disaster Debris Monitoring (RFP 20-003) Bid Award to Debris Tech LLC, Rostan Solutions LLC, and Brenco LLC

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

VIA: Ana M. Garcia, ICMA- CM, City Manager

FROM: Fernando J. Rodriguez, Public Services Director
Dincer A. Ozaydin, Deputy Public Service Director/City Engineer

RE: Authorization to Award RFP #20-003 "Disaster Debris Monitoring and FEMA Grant Administration and Consulting Services" to Primary, Secondary and Tertiary Firms

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Request

City administration is requesting adoption of a resolution authorizing the award of RFP #20-003 "Disaster Debris Monitoring and Federal Emergency Management Administration (FEMA) Grant Administration and Consulting Services" to DebrisTech, LLC., as the primary service provider, Rostan Solutions, LLC as the secondary, and BrenCo Emergency Management Consultants, LLC. as tertiary.

Background

The City of Dania Beach requires the services of professional storm debris monitoring contractors to be fully prepared to address the debris monitoring, documentation, and FEMA reimbursement submittal requirements during each hurricane season. To this end, bids for the "City of Dania Beach Disaster Debris Monitoring and FEMA Grant Administration and Consulting Services" RFP were advertised in the Sun-Sentinel on August 6, 2020 and posted on the City's website and on Demand-Star. The City received four responses, which were opened publicly on September 8, 2020. The RFQ evaluation committee reviewed all proposals and ranked the three most qualified ones for the award of contracts in the primary, secondary, and tertiary response roles. Based on the selection process the evaluation committee recommends award of the debris monitoring services as primary, secondary, and tertiary service providers to the following firms:

Primary: DebrisTech, LLC.

Secondary: Rostan Solutions, LLC.

Tertiary: BrenCo Emergency Management Consultants, LLC.

\continued…

It should be noted that, although Rostan Inc. is currently on contract with the City through June 2021 as its primary debris monitoring firm, this contract will be terminated upon the adoption of this resolution (pursuant to Section 8.02 of said contract). FEMA does not provide for storm recovery expense reimbursement based on "piggyback" contracts, which was the basis of the current Rostan agreement.

Budgetary Impact

Projected expense based on the estimated type and quantities of debris quantified is $46,300 for the primary contractor. This cost will initially be covered by the City's Disaster Reserves Account No. 001-271-08-00 and submitted to FEMA for reimbursement. The Debris Monitoring Agreement will also include grant assistance.

Recommendation

City Administration recommends that the City Commission adopt the resolution to award RFP #20-003 "City of Dania Beach Disaster Debris Monitoring and FEMA Grant Administration and Consulting Services" contract to DebrisTech, LLC., as the primary service provider, Rostan Solutions, LLC as the secondary, and BrenCo Emergency Management Consultants, LLC. as tertiary service providers.

RESOLUTION NO. 2020-150

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AWARDING DISASTER DEBRIS MONITORING CONTRACTS IN THE PRIMARY, SECONDARY AND TERTIARY SERVICE PROVIDER CATEGORIES TO DEBRIS TECH LLC, ROSTAN SOLUTIONS LLC, AND BRENCO LLC, RESPECTIVELY; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City requires the services of professional disaster debris monitoring contractors which provide expertise and service toward reimbursement applications to the Federal Emergency Management Administration (FEMA); and

WHEREAS, a Request for Proposals (RFP) was prepared and advertised for "Disaster Debris Monitoring and FEMA Grant Administration Services"; and

WHEREAS, nine responses were received and evaluated by the City's Selection Committee (Committee); and

WHEREAS, the Committee's assessment of the proposal packages provided by the respondents resulted in the selection of Debris Tech LLC as the primary contractor, Rostan Solutions LLC as the secondary, and Brenco LLC as the tertiary; and

WHEREAS, that upon adoption of this Resolution, the current contract with Rostan Solutions, which expires in June 2021, will be terminated by the City, per Section 8.02 of the contract;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AS FOLLOWS:

Section 1. That the above "Whereas" clauses are ratified and confirmed, and they are made a part of and incorporated into this Resolution by this reference.

Section 2. That the City Commission authorizes staff to immediately move forward with the contract preparation and execution for the primary, secondary and tertiary disaster debris monitoring firms.

Section 3. That funding for debris monitoring will be appropriated from the City's Disaster Reserves Account No. 001-271-08-00 and submitted to FEMA for reimbursement.

Section 4. That the City Commission authorizes Public Services to exceed the City vendor threshold policy of $25,000.00 for the term of the contract with firms selected.

Section 5. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 6. That this Resolution shall become effective immediately upon its passage and adoption.

PASSED AND ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Bids and Proposals

Continued from:

Requested Action (Identify appropriate Action or Motion)
TO APPROVE AND ADOPT A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AWARDING DISASTER DEBRIS REMOVAL AND DISPOSAL CONTRACTS IN THE PRIMARY, SECONDARY AND TERTIARY SERVICE PROVIDER CATEGORIES TO BERGERON EMERGENCY SERVICES, CUSTOM TREE CARE INC.. AND KDF ENTERPRISES LLC, PROVIDING ASSURANCES; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.*(Public Services)*

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
C-MEMO-DEBRISREMOVAL-CMMTEE-AWARD-120820 (003) (5) (2), R-2020- Disaster Debris Removal and Disposal (RFP 20-004) Bid Award to Bergeron Emergency Services, Custom Tree Care, Inc. and KDF Enterprises, LLC

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

VIA: Ana M. Garcia, ICMA- CM, City Manager

FROM: Fernando J. Rodriguez, Public Services Director
Dincer A. Ozaydin, Deputy Public Service Director/City Engineer

RE: Authorization to Award RFP #20-004 "Disaster Debris Removal and Disposal Services" to Primary, Secondary and Tertiary Firms

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Request

City administration is requesting adoption of a resolution authorizing the award of RFP #20-004 "Disaster Debris Removal and Disposal Services" to Bergeron Emergency Services Inc. as the primary service provider, Custom Tree Care Inc. as the secondary, and KDF Enterprises, LLC as the tertiary.

Background

The City of Dania Beach requires the services of professional storm debris removal contractors to be fully prepared to address the debris removal, documentation, and FEMA reimbursement submittal requirements during each hurricane season. To this end, bids for the "City of Dania Beach Disaster Debris Removal and Disposal Services" RFP were advertised in the Sun-Sentinel on August 6, 2020 and posted on the City's website and on Demand-Star. The City received nine responses, which were opened publicly on September 8, 2020. The RFQ evaluation committee reviewed all proposals and ranked the three most qualified ones for the award of contracts in the primary, secondary and tertiary response roles. Based on the selection process the evaluation committee recommends award of the debris monitoring services as primary, secondary, and tertiary service providers to the following firms:

Primary: Bergeron Emergency Services (BES)

Secondary: Custom Tree Care Inc.

Tertiary: KDF Enterprises, LLC

It should be noted that, although BES is currently on contract with the City through May 2022, as its primary debris removal firm, this contract will be terminated upon the adoption of

\continued…

this resolution (pursuant to Section 15.1 of said contract). FEMA does not provide for storm recovery expense reimbursement based on "piggyback" contracts, which was the basis of the current BES agreement.

Budgetary Impact

Projected expense based on the estimated type and quantities of debris removed is $430,116 for the primary contractor. This cost will initially be covered by the City's Disaster Reserves Account No. 001-271-08-00 and submitted to FEMA for reimbursement.

Recommendation

City Administration recommends that the City Commission adopt the resolution to award RFP #20-004 "City of Dania Beach Disaster Debris Removal and Disposal Services" contract to Bergeron Emergency Services as primary, Custom Tree Care Inc. as secondary and KDF Enterprises, LLC as tertiary service providers.

RESOLUTION NO. 2020-151

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AWARDING DISASTER DEBRIS REMOVAL AND DISPOSAL CONTRACTS IN THE PRIMARY, SECONDARY AND TERTIARY SERVICE PROVIDER CATEGORIES TO BERGERON EMERGENCY SERVICES, CUSTOM TREE CARE INC. AND KDF ENTERPRISES LLC; PROVIDING ASSURANCES; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City requires the services of professional disaster debris removal and disposal firms; and

WHEREAS, a Request for Proposals (RFP) was prepared and advertised for "Disaster Debris Removal and Disposal Services"; and

WHEREAS, nine responses were received and evaluated by the City's Selection Committee (Committee); and

WHEREAS, the Committee's assessment of the proposal packages provided by the respondents resulted in the selection of Bergeron Emergency Services (BES) as the primary contractor, Custom Tree Care Inc. as the secondary, and KDF Enterprises LLC as the tertiary; and

WHEREAS, that upon adoption of this Resolution, the current contract with BES, which expires in May 2022, will be terminated by the City, per Section 15.1 of the contract;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AS FOLLOWS:

Section 1. That the above "Whereas" clauses are ratified and confirmed, and they are made a part of and incorporated into this Resolution by this reference.

Section 2. That the City Commission authorizes staff to immediately move forward with the contract preparation and execution for the primary, secondary and tertiary disaster debris removal firms.

Section 3. That funding will be appropriated from the City's Disaster Reserves Account No. 001-271-08-00 and submitted to FEMA for reimbursement.

Section 4. That the City Commission authorizes Public Services to exceed the City vendor threshold policy of $25,000.00 for the term of the contract with vendors selected.

Section 5. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 6. That this Resolution shall become effective immediately upon its passage and adoption.

PASSED AND ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Ordinance

Continued from:

Requested Action (Identify appropriate Action or Motion)
ADOPT ORDINANCE CREATING ARTICLE 826 ENTITLED “OAK HAMMOCK TREE PROTECTION OVERLAY” UNDER THE CITY’S LAND DEVELOPMENT CODE (LDC) OF THE CITY OF DANIA BEACH CODE, AND APPROVING THE APPLICATION REQUEST (TX-065-20), MADE BY THE CITY OF DANIA BEACH TO CREATE A ZONING OVERLAY FOR THE GENERAL VICINITY OF THE RESIDENTIAL LOTS ON SW 36 TERRACE, SW 37 AVENUE AND SW 37 TERRACE, STRETCHING FROM STIRLING ROAD NORTH FOR APPROXIMATELY 1,280 LINEAR FEET, TO THE END OF THE STREETS, AND INCLUDES APPROXIMATELY 30 GROSS ACRES AND 74 PARCELS, IN THE CITY OF DANIA BEACH, FLORIDA, WHICH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT “A,” A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; PROVIDING FOR AN OAK HAMMOCK TREE PROTECTION OVERLAY FOR THE AREA IDENTIFIED IN ORDER TO PROTECT THE OF THIS UNIQUE OAK HAMMOCK FOREST COMMUNITY, SUBJECT TO CERTAIN STANDARDS AND RESTRICTIONS

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
CM TX-065-20, SR TX-065-20-2, O-2021- Text Amendment (TX-065-20) Creating Art. 826 Oak Hammock Tree Protection Zoning Overlay District, Harger Hills (Location Map), 1 of 2 P&Z Supplemental For & Against, 2 of 2 P&Z Supplemental For & Against, Tree Overlay Application OPT, VIRTUAL 11.12.20 Sunshine Tree Protection Overlay Minutes, Letters of support recieved since P&Z

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
MEMORANDUM

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, Director
Corinne Lajoie, AICP, Assistant Director Corinne Lajoie

SUBJECT: **TX-065-20:** The applicant, City of Dania Beach, is requesting a text amendment and map amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for trees in the general vicinity of the residential lots on SW 36 Terrace, SW 37 Avenue, and SW 37 Terrace (FIRST READING).

Request

TEXT AMENDMENT

To create tree protection overlay regulations and district.

Background

At the request of the City Commission, staff is proposing a text amendment to the City's Land Development regulations to create the Oak Hammock Tree Canopy Overlay for the Harger Hills residential neighborhood and surrounding properties. This area consists of the residential lots on SW 36 Terrace, SW 37 Avenue and SW 37 Terrace, stretching from Stirling Road north, for approximately 1,280 linear feet, to the end of the streets. It includes approximately 30 gross acres and seventy-three (73) parcels, all within the City.

On November 18, 2020 the Planning and Zoning Board heard this item and recommended approval.

Budgetary Impact

Approval of the proposed map and text amendments will help maintain the property values of the neighborhood.

Recommendation

Approve the ordinance on first reading.

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

DATE: December 8, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistant Director

SUBJECT: **TX-065-20:** The applicant, City of Dania Beach, is requesting a text amendment and map amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for trees in the general vicinity of the residential lots on SW 36 Terrace, SW 37 Avenue and SW 37 Terrace (FIRST READING).

Request

TEXT AND MAP AMENDMENT

To create tree protection overlay regulations and district.

Background

At the request of the City Commission, staff is proposing a text amendment to the City's Land Development Code (LDC) to create the Oak Hammock Tree Preservation Overlay for the Harger Hills residential neighborhood and adjacent properties. The intent of the proposed Oak Hammock Tree Protection Overlay District is to preserve the functional, ecological, and aesthetic integrity of the existing oak (mesic temperate) tree hammock community in the Harger Hills residential neighborhood and adjacent properties by establishing additional protections beyond what Articles 275 and 825 of the City's Land Development Code currently provide.

Florida House Bill 1159, and Florida Statue 163.045 preempted the City's ability to regulate removal of healthy trees and similarly eliminated the City's recourse or ability to enforce against the removal of healthy trees which would not have been authorized under the City's existing tree preservation code. This ordinance is an attempt to create a functional workaround by disincentivizing large tree removals in a way that might discourage removals of healthy mature trees for as long as the House Bill 1159 exists. Otherwise the City has no ability to prevent removal of good trees by developers using substandard/inaccurate arborist reports.

MAP AMENDMENT

The Oak Hammock Tree Preservation Overlay district is proposed to consist of the residential lots on SW 36 Terrace, SW 37 Avenue and SW 37 Terrace, stretching from Stirling Road, north for approximately

1,280 linear feet, to the end of each street. It includes approximately thirty (30) gross acres and seventy-three (73) parcels, all within the City. This area was annexed into the City in 2001.

The properties in the proposed overlay are zoned Residential Single Family (RS-12,000) which permits one (1) single family home per lot, with a minimum lot area of 12,000 square feet. The Harger Hills neighborhood and adjacent properties are single-family neighborhoods comprised of three (3) residential streets with platted lots.

TEXT AMENDMENT

The City supports the residents desire to acknowledge the unique and irreplaceable nature of this tree hammock community. Therefore, the City proposes to implement additional controls that encourage conservation and preservation of this remnant natural area for the following reasons while still enabling responsible development, redevelopment, or property improvement within the included properties. The intent of the proposed text and map amendments are identified below:

- To maintain, preserve, and improve the existing, native trees and intact understory plant community within this mature, mesic hardwood hammock community, the largest remaining within the City;
- To achieve a balanced, equitable and practical approach to preserving the canopy and fostering the establishment of new trees in the Overlay area;
- To preserve of the Overlay's existing tree canopy by managing the impact of development and preventing unreasonable or unnecessary damage to the community's existing native tree canopy and vegetative understory;
- To maintain the diversity of tree species indigenous to the Overlay area.
- To preserve, enhance, and restore the unique natural environment in the Overlay area for the enjoyment of present and future populations;
- To preserve the scenic streets and sense of place the existing oak hammock creates;
- To preserve the tree canopy and natural vegetation for their ability to serve as an important storm water management tool in the community;
- To preserve the intact tree canopy for its synergistic resistance to storm conditions when maintained as a whole;
- To achieve greater energy conservation by maximizing the shading and cooling effects of tree canopy and vegetated surfaces;
- To maintain and expand the existing tree canopy to reduce the sound pollution in the neighborhood from surrounding commercial destinations;
- To maintain and expand the existing tree canopy to decrease the light pollution resulting from surrounding commercial areas; and
- To maintain and expand the existing tree canopy to reduce the heat island effects of urban development in the community.

To achieve these goals, the proposed text amendment will establish or mandate the following:

Overlay Standards and Provisions:

- Enhanced minimum landscape standards (on-site tree requirements);
- Established a 10' wide perimeter preservation buffer zone;
- Required preservation of healthy specimen trees;
- Enhanced construction design limitations;
- Prohibition of elective variances;
- Increased protection of healthy trees in favorable locations;
- Advance notification of all tree removal and contracted trimming activities.

Tree Protection Requirements:

- The proposed language will identify specific requirements and restrictions for all construction activities to prevent incidental and avoidable damage to native trees within the Overlay District.

Exceptions:

- Emergency measures, pruning by qualified contractors, and activities affecting non-native or ornamental trees.

Permit Application Requirements – applicable to all tree removal permit applications and building permit applications proposing exterior improvements:

- Tree survey;
- Tree data table;
- Tree disposition plan;
- Arborist report (for proposed removals of native and specimen trees); and
- Tree-specific arborist evaluations (for encroachment within tree protection zones).

Mitigation – enhanced for proposed native tree removals:

- Mitigation for tree removal shall be required on-site until the minimum landscape standards for the Overlay District are met;
- On-site mitigation is strongly preferred. Mitigation provided off-site shall be valued at half the mitigation requirement (canopy square footage or trust fund payment);
- Nuisance tree removals of any size may be mitigated via 150 square feet of native vegetation (trees or shrubs); and)
- Replacement trees shall be Category 1A (16' tall or larger) and shall be of species typical of the habitat being protected.

Conditions of City Approval:

- Perpetual maintenance is required for trees/understory regulated by this overlay;
- Tree/vegetation protection measures must be implemented during construction; and

- 48 hours advance notification for all regulated tree removal and maintenance work.

Enforcement:

- After-the-fact permit applications fees are to be doubled;
- Maximum fines and penalties will be levied for unauthorized removals of protected trees; and
- Double mitigation and/or trust fund payment shall be required for all unauthorized removals or tree abuse (in addition to prescribed penalties and processing fees).

In response to comments and concerns received from residents, the City provides the following additional clarifications:

- This ordinance is proposed in response to citizen request as way to protect the proposed Oak Hammock Overlay area from documented abuse of a loophole in a recent State Statute. This Statute preempts local regulation of trees and wholly prevents the City from enforcing against the removal of mature healthy trees if done under the guise of the Statute.
- This ordinance does not require permits or application fees for pruning and trimming existing trees, or maintenance activities such as driveway, sidewalk or utility repair so long as the maintenance activity does not result in tree abuse as defined in Article 830 of the land development code.
- This ordinance does not prevent removal of dead or hazardous trees, nor does it make the approval process complicated or costly.
- The ordinance emphasizes coordination with the City to ensure tree biology and tree-sensitive construction methods are considered in the joint context of canopy preservation, tree health, and human safety, prior to deciding on removal.
- As written, the ordinance prioritizes protection of large, healthy trees in out-of-the way areas near the property lines, and provides less protection for trees more likely to conflict with homes or appurtenances.
- The City's landscape/arborist staff are always available to provide guidance or answer questions regarding tree resources, management, health, construction techniques, permit application requirements, etc..
- Without proper oversight of contracted work or coordination with the City, tree abuse occurs frequently, and abused trees are much more likely to become unsafe and/or hazardous over time.
- In an older neighborhood such as the proposed Overlay area, the ordinance is most directly effective against complete redevelopment projects which would seek to maximize developable area through extensive tree removals resulting in a property that is not in conformance with the surrounding area.

The text and map amendments require two readings by the City Commission.

PLANNING AND ZONING BOARD ACTION

On November 18, 2020 the Planning and Zoning Board recommended approval of the proposed Map and Text Amendments provided 'Harger Hills' is removed from the name of the Overlay and further provided the requirement of having an arborist present during tree removal/pruning is removed. This was approved by the Board with a 4-1 vote (Approved – Grace, Robertson, Shafa, Suriani; Denied – Peterman). In a

separate motion, the Board recommended to remove the ten (10) acre FPL site from the overlay district with a vote of 4-1 (Approved – Grace, Robertson, Shafa, Peterman; Denied – Suriani).

Recommendation

Staff is recommending approval of the ordinance as proposed, which incorporates the Planning and Zoning Board's recommendations.

ORDINANCE NO. 2021-003

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, CREATING ARTICLE 826 ENTITLED "OAK HAMMOCK TREE PROTECTION OVERLAY" UNDER THE CITY'S LAND DEVELOPMENT CODE (LDC) OF THE CITY OF DANIA BEACH CODE, AND APPROVING THE APPLICATION REQUEST (TX-065-20), MADE BY THE CITY OF DANIA BEACH TO CREATE A ZONING OVERLAY FOR THE GENERAL VICINITY OF THE RESIDENTIAL LOTS ON SW 36 TERRACE, SW 37 AVENUE AND SW 37 TERRACE, STRETCHING FROM STIRLING ROAD NORTH FOR APPROXIMATELY 1,280 LINEAR FEET, TO THE END OF THE STREETS, AND INCLUDES APPROXIMATELY 30 GROSS ACRES AND 74 PARCELS, IN THE CITY OF DANIA BEACH, FLORIDA, WHICH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; PROVIDING FOR AN OAK HAMMOCK TREE PROTECTION OVERLAY FOR THE AREA IDENTIFIED IN ORDER TO PROTECT THE OF THIS UNIQUE OAK HAMMOCK FOREST COMMUNITY, SUBJECT TO CERTAIN STANDARDS AND RESTRICTIONS; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the City of Dania Beach has identified a unique area of mesic hardwood (oak) hammock forest community as defined by the Florida Natural Areas Inventory and referenced in Section 825-140(A)(2)(b.) of the City's code, located in the general vicinity of the SW 36th Terrace, SW 37th Avenue, and SW 37th Terrace residential neighborhoods; and

WHEREAS, the Oak Hammock Tree Protection overlay area is a mesic temperate hammock dominated by oaks, but slash pines, cabbage palms, strangler figs, gumbo limbos, and other native species are also typical in these habitats; and

WHEREAS, the communal benefits provided by a mature forest canopy cannot be replicated through new plantings in a reasonable timeframe; and

WHEREAS, the City recognizes that effective tree protection requires the coordination of other design standards such as landscaping, utility infrastructure placement, stormwater management and vehicle parking, etc.; and

WHEREAS, the communal benefits that preserve the health, safety and general wellbeing of the inhabitants of the City include, amongst other things, storm protection, stormwater storage and treatment, soil stabilization and strengthening, and serve to counter heat island effect; and

WHEREAS, in order to protect the unique nature of this area, the City of Dania Beach seeks to create the Oak Hammock Tree Protection Overlay, for the area in the general vicinity of the

residential lots on SW 36 Terrace, SW 37 Avenue and SW 37 Terrace, stretching from Stirling Road North for approximately 1,280 linear feet, to the end of the streets, which includes approximately 30 gross acres and 74 parcels, in the City of Dania Beach, Florida, as legally described in Exhibit "A;" and

WHEREAS, the City will endeavor to separately from this overlay ordinance, begin a tree inventory for the Overlay area to identify the mature native trees, in particular those that would be considered specimen, historic, or heritage trees; and

WHEREAS, the City Planning and Zoning Board, sitting as the Local Planning Agency, held a duly advertised public hearing on November 18, 2020 and recommended approval of the overlay (TX-065-20) request; and

WHEREAS, the City Commission conducted two (2) duly noticed public hearings in accordance with law; and

WHEREAS, the City Commission finds that the approval of the proposed overlay will protect the public health, safety, and welfare of the residents of the City, and further the purpose, goals, objectives and policies of Objective XVII of the Future Land Use Element and Objective IV in the Conservation Element of the City's Comprehensive Plan;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the preceding "WHEREAS" clauses are ratified and incorporated as a record of the legislative intent of this Ordinance.

Section 2. That Chapter 28 "Land Development Code," Part 8, "Technical Appendix," of the City Code of Ordinances be amended to create Article 826, entitled "Oak Hammock Tree Protection Overlay" to read as follows:

CHAPTER 28

LAND DEVELOPMENT CODE

PART 8 – TECHNICAL APPENDIX

ARTICLE 826 –OAK HAMMOCK TREE PROTECTION OVERLAY

826-10 PURPOSE/INTENT.

The purpose of the Oak Hammock Tree Protection Overlay District is to preserve the functional, ecological, and aesthetic integrity of the existing mesic (oak) hardwood hammock forest community in a particular area described herein by establishing additional protections beyond what Section 825 of the City's Land Development Code currently provides. It is the City's desire to

acknowledge the unique and irreplaceable nature of this tree hammock community and thus implement an enhanced institutional control that encourages conservation and preservation of this remnant natural area for the variety of reasons listed below while still enabling responsible development, redevelopment, or property improvement within the included properties.

The intent of this Overlay is to provide specific standards and regulations to ensure a minimum number of trees on any lot or parcel within the overlay, protect and preserve native tree species, protect and preserve the natural forest community, foster and encourage maintenance of natural vegetation, and minimize loss of trees to development within the overlay district. It is the intent of the city to:

A. Acknowledge the existence of native tree resources and hammock community understory in the Overlay district that collectively have synergistic value, while recognizing the existing residential structures and that new home construction, reconstruction, and other home improvements will occur;

B. Establish minimum landscape standards for all properties within the Overlay District;

C. Ensure that new development and alterations to existing development are coordinated with the City to maximize compatibility with the existing tree resources and associated benefits protected by the Overlay District

D. Provide clear limitations on impacts to the hammock community within the overlay district;

E. Implement increased specimen and buffer tree protections;

F. Create disincentives for unnecessary tree/vegetation removals

G. Ensure existing, mature native trees important to the Overlay District are protected and maintained to the fullest extent possible;

H. Encourage new structures, utilities, and impervious surfaces to be planned, designed, and placed in such a way as to protect the survivability and substantial growth of the healthiest canopy trees on the property; and

I. Ensure all properties located within the overlay shall maintain compliance with the Overlay Article.

826-20 GOALS.

In furtherance of the prescribed intent, this Overlay District is intended to accomplish the following goals deemed particularly beneficial to the residents within the District and also to the City as a whole:

A. Maintain, preserve, and improve the existing, native trees and intact understory plant community within this mature, mesic hardwood hammock community, the largest remaining within the City;

B. Achieve a balanced, equitable and practical approach to preserving the canopy and fostering the establishment of new trees in the Overlay area;

C. Preserve of the Overlay's existing tree canopy by managing the impact of development or

redevelopment, and preventing unreasonable or unnecessary damage to the community's existing native tree canopy and vegetative understory;

D. Maintain the diversity of tree species indigenous to the Overlay area.

E. Preserve, enhance, and restore the unique natural environment in the Overlay area for the enjoyment of present and future residents;

F. Preserve the scenic streets and sense of place the existing oak hammock creates;

G. Preserve the tree canopy and natural vegetation for their ability to serve as an important storm water management tool in the community;

H. Preserve the intact tree canopy for its synergistic resistance to storm conditions when maintained as a whole;

I. Achieve greater energy conservation by maximizing the shading and cooling effects of tree canopy and vegetated surfaces;

J. Maintain and expand the existing tree canopy to reduce the sound pollution in the neighborhood from surrounding commercial destinations;

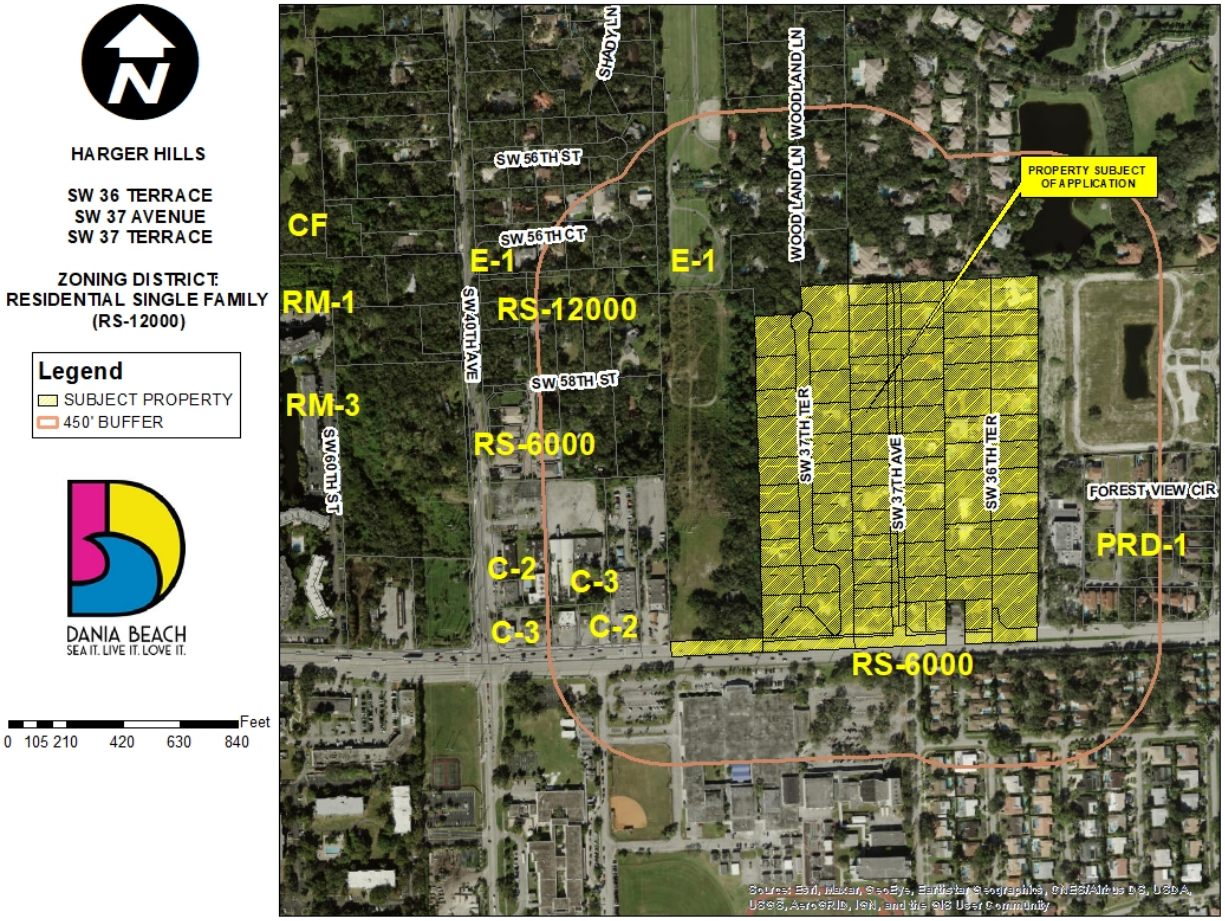
K. Maintain and expand the existing tree canopy to decrease the light pollution resulting from surrounding commercial areas; and

L. Maintain and expand the existing tree canopy to reduce the heat island effects of urban development in the community.

826-30 OVERLAY DISTRICT LOCATION AND LIMITS.

All public or private rights of way and residential properties accessed by and located on both sides of the following City roads north of Stirling Road: SW 37 Terrace, SW 37th Avenue, and SW 36 Street. The map of the overlay area is as follows:

"THE OVERLAY"



The legal description of the properties subject to the overlay are as follows:

Folio No. 504231010759 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 S 250 OF E1/2 LESS PT DESC IN OR 8288/127 FOR RD R/W BLK 3; Folio No. 504231010721 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 95 OF S 345 OF E1/2 BLK 3; Folio No. 504231010768 - REED LAND CO SUB 31-50-42 2-32 D LOT 16 N 105 OF S 450 OF E1/2 BLK 3; Folio No. 504231010753 - REED LAND CO SUB 2-32 D 31-50-42 N 95 OF S 545 OF E1/2 OF TR 16 BLK 3; Folio No. 504231010751 - REED LAND CO SUB 2-32 D 31-50-42 N 95 OF S 640 OF E1/2 OF TR 16 BLK 3; Folio No. 504231010765 - REED LAND CO SUB 2-32 D 31-50-42 TR 16 N 100 OF S 740 OF E1/2 BLK 3; Folio No. 504231010766 - REED LAND CO SUB 31-50-42 2-32 D LOT 16 N 95 OF S 835 OF E1/2 BLK 3; Folio No. 504231010766 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 95 OF S 930 OF E1/2 BLK 3; Folio No. 504231010758 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 100 OF S 1030 OF E1/2 BLK 3; Folio No. 504231010722 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 95 OF S 1125 OF E1/2 BLK 3; Folio No. 504231010720 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 95 OF S 1220 OF E1/2 BLK 3; Folio No. 504231010760 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 E1/2 LESS S 1220 BLK 3; Folio No. 504231010767 - REED LAND CO SUB 31-50-42 2-32 D LOT 16 W1/2 LESS S 1220 BLK 3; Folio No. 504231010755 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 95 OF S 1220 OF W1/2 BLK 3; Folio No. 504231010752 - REED LAND CO SUB 2-32 D 31-50-42 N 95 OF S 1125 OF W1/2 OF TR 16 BLK 3; Folio No. 504231010769

- REED LAND CO SUB 2-32 D 31-50-42 TR 16 N 95 OF S 1030 OF W1/2 BLK 3; Folio No. 504231010761 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 100 OF S 935 OF W1/2 BLK 3; Folio No. 504231010764 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 95 OF S 835 OF W1/2 BLK 3; Folio No. 504231010762 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 100 OF S 740 OF W1/2 BLK 3; Folio No. 504231010770 - REED LAND CO SUB 2-32 D 31-50-42 N 95 OF S 640 OF W1/2 OF TR 16 BLK 3; Folio No. 504231010763 - REED LAND CO SUB 2-32 D 31-50-42 N 100 OF S 545 OF W1/2 OF TR 16 BLK 3; Folio No. 504231010756 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 95 OF S 445 OF W1/2 BLK 3;Folio No. 504231010741 - REED LAND CO SUB 2-32 D 31-50-42 LOT 16 N 100 OF S 350 OF W1/2 BLK 3; Folio No. 504231010754 - REED LAND CO SUB 2-32 D 31-50-42 N 85 OF S 250 OF W1/2 OF LOT 16 BLK 3; Folio No. 504231010757 - REED LAND CO SUB 2-32 D 31-50-42 BEG SW COR OF LOT 16,NLY 53.01, ELY 71.60 TO POB,CONT ELY 96.61, NLY 112,WLY 97.35,SLY 112 TO POB BLK 3; Folio No. 504231020153 - HARGER HILLS 26-41 B LOT 23 N 112.03 OF S 130.03 OF E 73; Folio No. 504231020150 – HARGER HILLS 26-41 B LOT 23 N 112 OF S 130 LESS E 73 & LESS PT LYING SWLY OF CHORD FOR 25 RAD ARC,SAID ARC TANG TO W/L LOT 23 & TANG TO LINE 53 N OF S/L OF SEC 31,TOGETHER WITH E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF SAID LOT,LESS STIRLING ROAD R/W & LESS 2 FT BIKEWAY; Folio No. 504231020152 - HARGER HILLS 26-41 B LOT 23 LESS S 130,TOGETHER WITH E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF & ADJ TO SAID PROP; Folio No. 504231020140 - HARGER HILLS 26-41 B LOT 22 LESS N 25,TOGETHER WITH E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF SAID PT OF LOT 22; Folio No. 504231020141 - HARGER HILLS 26-41 B LOT 21,22 N 25 TOGETHER WITH E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF SAID LOTS; Folio No. 504231020120 - HARGER HILLS 26-41 B LOT 20 & E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF & ADJ TO SAID LOT; Folio No. 504231020110 - HARGER HILLS 26-41 B LOT 19 TOGETHER WITH E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF & ADJ TO LOT 19; Folio No. 504231020100 - HARGER HILLS 26-41 B LOTS 17 & 18 TOG WITH E1/2 OF PT OF VAC'D SW 37 AVE LYING W OF & ADJ TO SAID LOTS 17 & 18 PER O.R. 23957/105 BCR ; Folio No. 504231020080 - HARGER HILLS 26-41 B LOT 16 TOGETHER WITH E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF & ADJ TO LOT 16; Folio No. 504231020070 - HARGER HILLS 26-41 B LOT 15 TOGETHER WITH E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF & ADJ TO LOT 15; Folio No, 504231020060 - HARGER HILLS 26-41 B LOT 14 TOGETHER WITH E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF & ADJ TO LOT 14; Folio No. 504231020050 - HARGER HILLS 26-41 B LOT 13 TOGETHER WITH E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF & ADJ TO LOT 13; Folio No. 504231020040 - HARGER HILLS 26-41 B LOT 12 & E 1/2 OF PT OF VAC'D SW 37 AVE LYING W OF & ADJ TO SAID LOT; Folio No. 504231020039 - HARGER HILLS 26-41 B LOT 11 TOGETHER WITH W 1/2 OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO LOT 11; Folio No. 504231020038 - HARGER HILLS 26-41 B LOT 10 & W 1/2 OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO LOT 10; Folio No. 504231020037 - HARGER HILLS 26-41 B LOT 9 & W 1/2 OF PT OF VAC SW 37 AVE LYING E OF & ADJ TO LOT; Folio No. 504231020036 - HARGER HILLS 26-41 B LOT 8 TOGETHER WITH W 1/2 OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO LOT 8; Folio No. 504231020032 - HARGER HILLS 26-41 B LOT 7 TOGETHER WITH W 1/2 OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO LOT 7; Folio No. 504231020033 - HARGER HILLS 26-41 B LOT 6 TOGETHER WITH W 1/2 OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO LOT 6; Folio No. 504231020031 - HARGER HILLS 26-41 B LOT 5 TOGETHER WITH W 1/2

OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO LOT 5; Folio No. 504231020030 - HARGER HILLS 26-41 B LOT 4 TOGETHER WITH W 1/2 OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO LOT 4; Folio No. 504231020016 - HARGER HILLS 26-41 B LOT 3 N 90 TOGETHER WITH W1/2 OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO SAID LOT; Folio No. 504231020015 - HARGER HILLS 26-41 B LOT 1 N 40,2,3 LESS N 90 TOGETHER WITH W 1/2 OF PT OF VAC SW 37 AVE LYING E OF SAID LOT; Folio No. 504231020014 - HARGER HILLS 26-41 B LOT 1 S 90 OF N 130 TOGETHER WITH W1/2 OF PT OF VAC'D SW 37 AVE LYING E OF SAID LOT ; Folio No. 504231020013 - HARGER HILLS 26-41 B LOT 1 S 88 OF N 218 TOGETHER WITH W 1/2 OF THAT PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO SAID LOT; Folio No. 504231020012 - HARGER HILLS 26-41 B LOT 1 S 88 OF N 306 TOGETHER WITH W 1/2 OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO SAID LOT; Folio No. 504231020010 - HARGER HILLS 26-41 B LOT 1 LESS S 18 & LESS N 306 & LESS EXT AREA FORMED BY 25 RAD ARC TANG TO E/L OF LOT 1 & TANG TO A LINE 53 N OF & PARA TO S/L OF SEC 31-50-42 TOGETHER WITH W 1/2 OF PT OF VAC'D SW 37 AVE LYING E OF & ADJ TO SAID LOT, LESS THEREFROM STIRLING RD R/W & LESS 2 FT BIKEWAY ; Folio No. 504231040160 - STIRLING OAKS ESTATES 77-39 B LOT 17; Folio No. 504231040150 - STIRLING OAKS ESTATES 77-39 B LOT 16; Folio No. 504231040140 - STIRLING OAKS ESTATES 77-39 B LOT 15; Folio No. 504231040130 - STIRLING OAKS ESTATES 77-39 B LOT 14; Folio No. 504231040120 - STIRLING OAKS ESTATES 77-39 B LOT 12; Folio No. 504231040110 - STIRLING OAKS ESTATES 77-39 B LOT 11; Folio No. 504231040100 - STIRLING OAKS ESTATES 77-39 B LOT 10; Folio No. 504231040090 - STIRLING OAKS ESTATES 77-39 B LOT 9; Folio No. 504231010461 - REED LAND CO SUB 2-32 D 31-50-42 TRACT 7 E1/2 LESS N 1125 AS DESC IN OR 3224/381; Folio No. 504231010479 - REED LAND CO SUB 2-32 D 31-50-42 TR 7 W1/2 LESS N 1125 AND TR 8 LESS N 1124.84 & LESS W 270 BLK 3 TOG WITH LOT 14 BLK 3 LESS PPA STIRLING OAK EST 77-39 B; Folio No. 504231040080 - STIRLING OAKS ESTATES 77-39 B LOT 8; Folio No. 504231040070 - STIRLING OAKS ESTATES 77-39 B LOT 7; Folio No. 504231040060 - STIRLING OAKS ESTATES 77-39 B LOT 6; Folio No. 504231040050 - STIRLING OAKS ESTATES 77-39 B LOT 5; Folio No. 504231040040 - STIRLING OAKS ESTATES 77-39 B LOT 4; Folio No. 504231040030 - STIRLING OAKS ESTATES 77-39 B LOT 3; Folio No. 504231040020 - STIRLING OAKS ESTATES 77-39 B LOT 2; Folio No. 504231040010 - STIRLING OAKS ESTATES 77-39 B LOT 1; Folio No. 504231040171 - STIRLING OAKS ESTATES 77-39 B PORTION OF PARCEL A DESC AS COMM NW COR OF SAID PARCEL,SLY 103,ELY 158.52,NLY 102.98,WLY 157 TO POB AKA: LOT A-1 STIRLING OAKS ESTATES; Folio No. 504231040173 - STIRLING OAKS ESTATES 77-39 B PART OF PARCEL A DESC'D AS,COMM AT NW COR PAR A,ELY 157 TO POB, CONT E 106.57,SELY 39.87,SLY 77.40,WLY 129.71,NLY 102.98 TO POB AKA: LOT A-5 STIRLING OAKS ESTATES; Folio No. 504231040174 - STIRLING OAKS ESTATES 77-39 B PART OF PARCEL A DESC'D AS,COMM AT SW COR OF PARCEL A,E ALG S/L FOR 262.37 TO POB,NELY ARC DIST OF 38.67,N 132.60,W 144.11,SLY 50,ELY 25,SELY 141.03 TO POB AKA: LOT A-4 STIRLING OAKS ESTATES; Folio No. 504231040170 - STIRLING OAKS ESTATES 77-39 B PART OF PARCEL A DESC'D AS,COMM AT SW COR OF PARCEL A,ELY 25 TO POB,CONT ELY 237.37,NWLY FOR 141.03,WLY 50,SWLY 143.40 TO POB AKA: LOT A-3 STIRLING OAKS ESTATES; and Folio No. 504231040172 - STIRLING OAKS ESTATES 77-39 B PT OF PARCEL A DESC AS BEG SW COR PAR A,N 157,E 144.12,S 50, W 25,SW 143.40,W 25 TO POB AKA: LOT A-2.

826-40 OVERLAY STANDARDS AND PROVISIONS[1]

The enhanced standards of this section apply to all native (as defined in 825-50) trees and intact understory areas within the limits of the Overlay District. Non-native and ornamental trees/vegetation otherwise regulated by Articles 275 or 825 of the City's code are not subject to these enhanced standards. For the reasons outlined in Sections 826-10 and 826-20 of this Article, these provisions shall help to preserve and maintain the functional integrity of the forest community as a whole by maximizing retention of native trees and understory that are characteristic of the Overlay area.

All land development, redevelopment, improvement, or property maintenance (e.g. driveway repaving or fixing a cracked water line due to root intrusion; limb removal due to roof line or gutter conflicts) within the Overlay District shall comply with the following new or increased standards which supersede or are in addition to existing requirements of Articles 275 (Landscaping) and 825 (Tree Preservation) of the City's Land Development Code:

A. Minimum landscape standards: For properties within the Overlay District, the minimum tree requirements shall be either six (6) category 1A native canopy trees, 40" combined native tree caliper/dbh, or aerial canopy coverage equal to fifty (50) percent of the lot size. Credit for canopy coverage can extend beyond the property line for trees rooted wholly or mostly within the property requesting the credit.

   The table below shows the differences between minimum landscape requirements for properties located within the district vs. those located elsewhere in the City.

	Minimum # Trees	Min. Caliper/DBH	Min. Canopy Credit
Non-Overlay Area Requirements [275-160(B)(1)]*	3 Category 1B	15"	900 sq. ft.
Overlay Area Requirements**	6 Category 1A	40"	50% of lot area

*all requirements must be met
** only one of the three requirements must be met

B. Perimeter buffer preservation zone: A perimeter buffer preservation zone shall be established to preserve existing trees located nearest to property lines where conflicts with residences are lowest. All existing native trees in "fair" or "good" condition with a DBH larger than eight (8) inches and situated wholly within ten (10) feet of the property line are to be preserved. Intact understory areas within this same ten (10) foot buffer shall also be preserved against voluntary impacts. Any development, redevelopment or exterior site improvements shall be designed and implemented in a manner that preserves the existing canopy and critical root zones of such trees, and any native understory that may also be present. This perimeter buffer may be reduced in certain areas if other portions of the buffer with equal or greater value are equivalently increased as compensation.

[1] F.S. Section 163.45 provides that a tree that is determined to be dangerous to persons or property by a certified arborist licensed by the International Society of Arboriculture or a Florida licensed landscape architect does not require a permit or mitigation.

C. Mandatory preservation of healthy specimen trees: preservation against voluntary/elective impacts shall be required for all existing specimen trees (excluding palms) in "good" condition [Sec. 825-50]. Any development, redevelopment, or exterior site improvements shall be designed and implemented in a manner that avoids impacts to or abuse of existing canopy and critical root zones of such trees.

D. Construction design standards: In designing a new residential structure or an addition/improvement to the exterior of an existing residential structure, including, but not limited to the installation of a shed, pool or driveway, the improvements shall be designed and constructed around regulated native trees in "fair" or "good" condition and intact understory areas to the maximum extent feasible. Horizontal and vertical design modifications shall prevent abuse of existing native tree resources.

E. Prohibition against elective variances: variances to Overlay requirements which would result in impacts to native trees (excluding palms) with a DBH larger than eight (8) inches in "fair" or "good" condition are prohibited.

F. Increased health and location protections: Trees with "Good" condition rating, as defined in section 825-50 of the LDC, and location scores of 2 or better, as described in section 825-140(C)(2)] shall receive greater protections and requirements for avoidance than other non-specimen trees or those with substantial structural defects or health issues.

G. Advanced notification requirement: At least 48 hours prior to any contracted trimming, or removal of trees, the property owner is required to contact the City and provide a work schedule so that the City's arborist may meet on site meet with the tree removal or maintenance contractor and inspect the trees proposed for removal or trimming. This meeting shall provide opportunity to confirm the proposed trimming activities will not result in accidental abuse of protected trees and verify proposed removals have been approved.

826-50 SPECIFIC TREE PROTECTIONS

A. Protective measures are required to minimize:

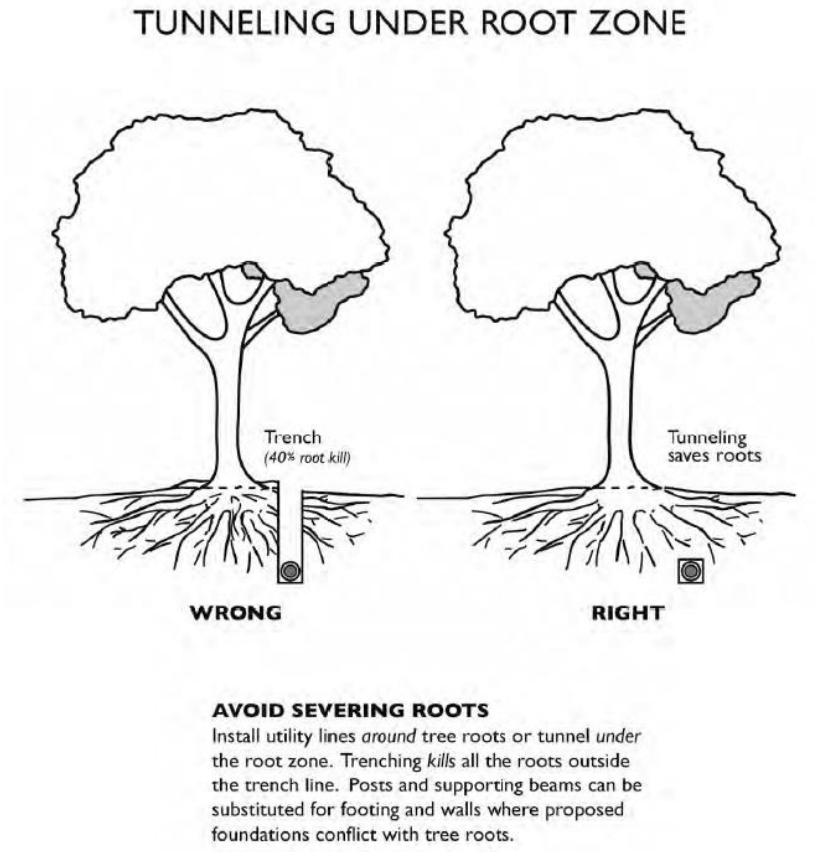
1. Mechanical injuries to roots, trunk, and branches;
2. Injuries by chemical poisoning;
3. Injuries by grade changes;
4. Injuries by excavations;
5. Injuries by root compression; and
6. Injuries by new impervious surfaces paving

B. A Tree Protection Zone shall be established around each tree(s) on the property and in the general vicinity of the proposed construction/installation/maintenance area as follows:

1. At a minimum, the tree protection zone shall be defined as a circular area around a native tree with a radius equal to six (6) times the diameter of the trunk of the protected tree at breast height. In no case shall a tree protection zone be less than seventy-two (72) inches in diameter. As an example, a protected tree with a DBH

of fifty (50) inches (4-ft. 2-inches) will have a tree protection zone with a radius of three hundred (300) inches (25 ft.). A protected tree with a DBH of eight (8) inches will have a tree protection zone of seventy-two (72) inches.

2. Prior to commencement of construction, all native trees to remain shall be protected via the installation of a tree protection barricade. The tree protection barricade shall be at least three (3) feet tall. fence The barricade must remain in place through the duration of construction activities.
3. Trenching or excavation within the tree protection zone of a native tree intended for preservation must not impact more than 30% of the tree protection zone. Directional boring/tunneling is the preferred method when applicable.



4. A deviation from the minimum size requirements of the tree protection zone may be granted by the Community Development Director if the strict application of this rule will result in the unnecessary removal of trees which can otherwise be preserved through application of best management and sound arboricultural/horticultural practices. Consultation with an ISA certified arborist is required to determine proper measures to ensure protection of the tree during construction activities. The plan shall be prepared and certified by an ISA certified arborist and include sufficient detail to clearly define the process, deviation from requirements herein, and alternative protective measures proposed.

5. The root systems of native trees shall be preserved when installing fences and walls. Postholes and trenches located close to trees shall be dug and adjusted as necessary to avoid damage to major roots. Continuous footers for masonry walls shall be ended at the point larger roots are encountered and the roots bridged.

6. If upon inspection by the City it is determined that a tree protection barricade has been improperly located or has not been properly maintained, a stop work order may be issued. The stop work order may not be lifted until all barricades have been re-established in accordance with this ordinance and any resulting corrective action has been completed.

826-60 EXEMPTIONS.

The following exceptions to the tree preservation requirements herein are authorized:

A. Generally accepted emergency/time-sensitive procedures necessary for the protection of life, health, safety, or property.

B. Pruning trees by qualified entities (e.g. property owners, utility or other easement holders or their authorized contractors/agents) that does not quality as tree abuse under Article 830 and is conducted wholly in accordance with ANSI A-300 standards or other applicable Statutes.

C. Non-native/exotic or ornamental landscape trees are exempt from the Overlay requirements.

826-70 PERMIT APPLICATION REQUIREMENTS.

A building permit or tree removal permit application that is reviewed for compliance with the standards of this chapter may require more information than a typical residential permit application not affected by these provisions. If alteration of native trees is proposed, the information below may be required by the City. This information must be prepared by certified or qualified professionals and submitted with any permit application packages proposing removal or alteration of specimen trees:

A. Tree survey or tree resource map assigning individual tree numbers and identifying the locations of all regulated trees on site. The survey/map should also include approximate/representative foliage limits for all unmaintained/intact understory areas, as well as additional trees rooted within 50 feet of the property lines such that overhanging canopy areas are clearly reflected on the survey;

B. Tree Data Table listing the species, trunk diameter (inches), canopy spread (feet), canopy area (square feet), height (feet), and condition of the tree;

C. Tree disposition plan indicating the intent to remove, relocate, or preserve each tree shown on the survey (this may be included in the tree data table identified in 826-70B. above.;

D. Arborist report documenting and evaluating all native trees proposed for removal and all specimen trees on-site;

a. arborist reports shall be prepared in accordance with ISA standards and at a minimum include documentation of the tree location, size, growth habit, condition, and conflicts with surrounding features as applicable for determination of potential hazard status [Section 825-50, of the Land Development Code] or health/condition rating as required for specimen tree appraisal [Section 825-140(C)(2), of the Land Development Code]; and

E. Tree-specific arborist evaluations shall be required for all new development or redevelopment applications proposing ground disturbing activities (e.g. plumbing, electrical, etc.) within the critical root zones of native trees protected under this article.

826-80 MITIGATION.

Canopy replacement or Tree Trust Fund payments required for tree removals shall be subject to the following additional requirements.

A. This article supersedes the existing mitigation exemption for single family properties outlined in Sec. 825-100(D), of the Land Development Code.

B. Mitigation for tree removals shall be required on-site for all properties which do not meet the minimum landscape standards described in 826-40(A) above. Any property that legally does not meet the tree coverage criteria contained herein at the time of ordinance adoption may coordinate with the City to submit documentation of the pre-existing deficiency which would preclude assessment of this on-site requirement for compensatory mitigation that exceeds the documented pre-existing condition.

C. On-site mitigation is preferred for all projects regardless of compliance with 826.40(A). To encourage on-site tree replacement, mitigation in excess of the minimum thresholds in 826-40(A) that is provided off-site shall be valued at half the calculated canopy square footage (825-100) or monetary cost to the City's Tree Trust Fund (825-30). On-site mitigation/tree replacement shall be attributed full value outlined in Sec. 825-100, of the Land Development Code.

D. Mitigation for specimen tree removals shall be provided at least 50% on-site regardless of compliance with 826.40(A).

E. Trees on the nuisance plants list may be removed regardless of size provided that each tree removed is replaced either with one native Category 2 tree or 150 square feet of native understory shrubs representative of the protected community type and otherwise meeting the requirements for size and spacing of new landscape installations identified in Article 275 of the City's Land Development Code.

F. Replacement trees for on-site mitigation shall be of Category 1A size or larger and shall be of species typical of the mesic hardwood hammock habitat being protected. The City may authorize mitigation via the Tree Trust Fund on a case-by-case basis if a suitable on-site location for canopy tree growth and establishment does not exist.

G. For projects required to provide three (3) or more mitigation trees, at least two (2) different tree species shall be provided.

826.90 CONDITIONS OF CITY APPROVAL.

Planning/Zoning or Building department approvals affecting native trees or intact understory areas within the Overlay-shall be subject to the following conditions:

A. All trees required on properties with approved site/landscape plans associated with an issued building permit shall be maintained continually and replaced with similar species at equal or greater size if they die.

B. Tree/vegetation protection measures must be reasonably implemented during construction of permitted site improvements and maintenance activities. All failures to protect as per approved plan, especially unauthorized damage to the critical root zone or trunk shall be subject to enforcement.

C. The City shall be notified at least 48 hours prior to all native tree removals and/or trimming of native tree branches exceeding 6" in diameter.

826.100 ENFORCEMENT

After-the-fact regulation of unauthorized protected tree removals or tree abuse shall be subject to the following:

A. Application fees for after-the-fact permits shall be doubled.

B. The removal of a healthy specimen tree not meeting the criteria of this Article, the removal of a specimen tree without a permit, or the damage of or effectively destroying a specimen tree which kills or will more likely than not cause the tree to die shall warrant the assessment of a penalty of up to $5,000, as determined appropriate by the Special Master as the harm is irreparable and irreversible, in addition to meeting the restoration requirements defined herein. Under this Overlay District, unauthorized removals of trees or understory vegetation, actions that "effectively destroy" trees as defined at Section 825.50, or actions constituting tree "abuse" as defined at Section 825.50 shall be subject to the enforcement provisions of this section.

C. Double mitigation (canopy replacement and/or trust fund payments as determined by the criteria herein) shall be required in addition to processing fees and prescribed fines/penalties.

* * *

Section 3. That if any section, clause, sentence or phrase of this Ordinance is for any reason held invalid or unconstitutional by a court of competent jurisdiction, the holding shall not affect the validity of the remaining portions of this Ordinance.

Section 4. That all ordinances or parts of ordinances in conflict with the provisions of this Ordinance are repealed to the extent of such conflict.

Section 5. That this Ordinance shall be effective immediately upon its passage and adoption on second reading.

PASSED on first reading on December 8, 2020.

PASSED AND ADOPTED on second reading on _____, 2021.

ATTEST:

_____	_____
THOMAS SCHNEIDER, CMC	TAMARA JAMES
CITY CLERK	MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

_____

THOMAS J. ANSBRO
CITY ATTORNEY

EXHIBIT "A"

LEGAL DESCRIPTION

Parcel 1
A portion of TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMAN'S SURVEY, according to the Plat thereof, recorded in Plat Book 2, Page 26 of the Public Records of Miami-Dade County, Florida; more fully described as follows:

COMMENCING at the intersection of the East Right-of-Way line of State Road No. 7 with the South line of said Section 25; thence Northerly along the said East Right-of-Way, North 02°06'55" East, 1111.80 feet to the intersection of the East Right-of-Way line of State Road No. 7 and the South Right-of-Way line of the South New River Canal Easement; thence Easterly along said South Right-of-Way, North 90°00'00" East, 181.59 feet; thence North 76°04'42" East, 19.28 feet to the POINT OF BEGINNING; thence continue North 76°04'42" East, 394.91 feet; thence South 02°12'46" West 686.55 feet; thence North 87°51'58" West, 378.37 feet; thence North 02°06'55" East, 577.47 feet to the POINT OF BEGINNING. Said lands situate, lying and being in Broward County, Florida.

"THE OVERLAY"

R HILLS

ERRACE
VENUE
ERRACE

DISTRICT:
INGLE FAMILY
2000)

PROPERTY
ER

EACH
LOVE IT.

Feet
630 840

Planning and Zoning Board

November 18, 2020

SUPPLEMENTAL INFORMATION

Item III.

(1) TX-065-20 Tree Protection Overlay

Letters of support and opposition

Lajoie, Corinne

From: Linda Bloomfield <bloomerl@hotmail.com>
Sent: Friday, November 13, 2020 10:18 AM
To: Lajoie, Corinne
Subject: Harger Hills

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

I am writing to inform you of my **support for TX-065-20**: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock.
I support the formation of the Zoning Overlay District because the Harger Hills Oak Hammock is the last remaining oak hammock within Dania Beach and one of the few remaining oak hammocks in Broward County. Aside from making the streets in this area lovely, these trees create a sense of community, add to property values, lessen flooding, absorb sound and light pollution from Stirling Road and the Hard Rock Hotel Complex, shade and cool the streets and homes, and mitigate climate change for all of us. It is one of the few non-gated areas in the city where everyone has access to walk, run and cycle in the shade.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I and the City Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board at the request of the City Commission, to maintain the integrity of the oak hammock as a whole. While they and I clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define this very unique, but endangered neighborhood and ecosystem which is suddenly being threatened by recent building and development.

Thank you so much for your attention to this matter,

Sincerely yours,

Linda Bloomfield
Hollywood, Florida

Lajoie, Corinne

From: Anita Lorenz <catsai@att.net>
Sent: Friday, November 13, 2020 10:11 AM
To: Lewellen, Lori
Subject: TX-065-20 Amendment

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

To Whom It May Concern:

My name is Anita Lorenz. I live at 2774 East Marina Drive in the Estates of Ft. Lauderdale, Dania Beach. I have lived there for over 50 years and patrolled the streets of that area along with the hammock for over 10 years as part of the Citizens on Patrol unit of the Broward Sheriff's Department. I also have friends who live in that hammock area.

I totally support TX-065-20: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills Oak Hammock.

I support the formation of the Zoning Overlay District because the Harger Hills Oak Hammock is the last remaining oak hammock within Dania Beach and one of the few remaining oak hammocks in Broward County. Aside from making the streets in this area lovely, these trees create a sense of community, add to property values, lessen flooding, absorb sound and light pollution from Stirling Road and the Hard Rock Hotel Complex, shade and cool the streets and homes, and mitigate climate change for all of us. It is one of the few non-gated areas in the city has where everyone has access to walk, run and cycle in the shade.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits and that protection also needs to be made stronger. I have watched too many native trees destroyed in Dania Beach and in the areas that became incorporated into Dania Beach. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I and the City Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board, at the request of the City Commission, to maintain the integrity of the oak hammock as a whole and protect this delicate ecosystem. While they and I clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define the city I have called home for over 50 years, but which is suddenly disappearing all around me.

Thank you so much for your attention to this matter,

Sincerely yours,
Anita Lorenz

Lajoie, Corinne

From: Heidi Nusynbaum <heidi@achievetherapycenter.com>
Sent: Thursday, November 12, 2020 6:53 PM
To: Lewellen, Lori; Odman, Lauren; Brandimarte, Chickie; Harris, Bill; James, Tamara; davisfordaniabeach@gmail.com; msalvino@leeslocksmith.com; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Ansbro, Tom; Ryan.StGeorge@metriceng.com
Subject: Harger Hills zoning overlay Petition regarding Ordinance 826

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Mayor and Commissioners:

My name is Heidi Nusynbaum and I am the owner of the property located at 5890 SW 36 TER, Dania Beach, FL. 33312 My property is within the Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I am writing to ask that you vote against this Ordinance.

I am not in favor of the Ordinance. I begin by noting that ***this Ordinance would be the only Ordinance of its kind in the City of Dania Beach*** *and it is not fair to place such restrictions solely upon my neighborhood. The City's existing landscape ordinance is sufficient to protect the existing trees within our neighborhood. In fact, the City Code already imposes significant requirements if a property owner removes a healthy and native tree from his property. This Ordinance is merely the result of a small minority of homeowners in the neighborhood loudly complaining to the City and it does not express the will of the majority of homeowners in the neighborhood. Such action politically is referred to as "tyranny by the minority" and it should not be allowed.*

The Ordinance prevents a homeowner from properly maintaining their property when they see a harmful situation involving trees. We have invested in our property and need to protect our property without the need for the Ordinance or the regulations it imposes. The Ordinance prevents us from taking steps to not only protect our property but more importantly the children and other people who would be outside and could be hurt by falling branches and other items. It is just unfair to require us to hire an arborist and to obtain permits prior to conducting necessary upkeep and maintenance.

In addition, Section 163.045, Florida Statutes seems to be quite clear that a municipality cannot force a homeowner to obtain a permit before trimming, pruning or removing a dangerous tree. The City's proposed Ordinance seems, under the guise of a zoning overlay district, intended to circumvent the State law merely because some residents don't like the state law or are upset at the state law. I do not think Dania Beach should be engaging in such machinations. If the City does not like what was done by the State legislature then it should have its lobbyist try to have the law changed instead of trying a dubious zoning change to perform a questionable disregard of State Law.

Thank you and please vote NO with regard to this Ordinance.

Lajoie, Corinne

From: Amos Prync <amosprync@gmail.com>
Sent: Thursday, November 12, 2020 6:46 PM
To: Lewellen, Lori; Odman, Lauren; Brandimarte, Chickie; Harris, Bill; James, Tamara; davisfordaniabeach@gmail.com; msalvino@leeslocksmith.com; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Ansbro, Tom; Ryan.StGeorge@metriceng.com
Subject: Harger Hills zoning overlay Petition regarding Ordinance 826

***CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.*

Mayor and Commissioners:

My name is Amos Prync and I am the owner of the property located at 5890 SW 36th TER, Dania Beach, FL. 33312 My property is within the Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I am writing to ask that you vote against this Ordinance.

I am not in favor of the Ordinance. I begin by noting that ***this Ordinance would be the only Ordinance of its kind in the City of Dania Beach*** *and it is not fair to place such restrictions solely upon my neighborhood. The City's existing landscape ordinance is sufficient to protect the existing trees within our neighborhood. In fact, the City Code already imposes significant requirements if a property owner removes a healthy and native tree from his property. This Ordinance is merely the result of a small minority of homeowners in the neighborhood loudly complaining to the City and it does not express the will of the majority of homeowners in the neighborhood. Such action politically is referred to as "tyranny by the minority" and it should not be allowed.*

The Ordinance prevents a homeowner from properly maintaining their property when they see a harmful situation involving trees. We have invested in our property and need to protect our property without the need for the Ordinance or the regulations it imposes. The Ordinance prevents us from taking steps to not only protect our property but more importantly the children and other people who would be outside and could be hurt by falling branches and other items. It is just unfair to require us to hire an arborist and to obtain permits prior to conducting necessary upkeep and maintenance.

In addition, Section 163.045, Florida Statutes seems to be quite clear that a municipality cannot force a homeowner to obtain a permit before trimming, pruning or removing a dangerous tree. The City's proposed Ordinance seems, under the guise of a zoning overlay district, intended to circumvent the State law merely because some residents don't like the state law or are upset at the state law. I do not think Dania Beach should be engaging in such machinations. If the City does not like what was done by the State legislature then it should have its lobbyist try to have the law changed instead of trying a dubious zoning change to perform a questionable disregard of State Law.

Thank you and please vote NO with regard to this Ordinance.

--
Amos Prync - Video Edit |::| Motion Graphics
PH.786.326.4410 | Email: amosprync@gmail.com | www.amosprync.com

Lajoie, Corinne

From: Marcos Korik <marcos@korik.com>
Sent: Thursday, November 12, 2020 4:42 PM
To: Lewellen, Lori; Odman, Lauren; Brandimarte, Chickie; Harris, Bill; James, Tamara; davisfordaniabeach@gmail.com; msalvino@leeslocksmith.com; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Ansbro, Tom; Ryan St. George; Lewellen, Lori; Lajoie, Corinne
Subject: Harger Hills zoning overlay Petition regarding Ordinance 826 - Vote NO

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To:

Mayor and Commissioners:

My name is Marcos Korik and I am the owner of the property located at 5830 SW 36th terrace Dania Beach, FL. My property is within the Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I am writing to ask that you vote against this Ordinance.

I am not in favor of the Ordinance. I begin by noting that ***this Ordinance would be the only Ordinance of its kind in the City of Dania Beach*** *and it is not fair to place such restrictions solely upon my neighborhood. The City's existing landscape ordinance is sufficient to protect the existing trees within our neighborhood. In fact, the City Code already imposes significant requirements if a property owner removes a healthy and native tree from his property. This Ordinance is merely the result of a small minority of homeowners in the neighborhood loudly complaining to the City and it does not express the will of the majority of homeowners in the neighborhood. Such action politically is referred to as "tyranny by the minority" and it should not be allowed.*

The Ordinance prevents a homeowner from properly maintaining their property when they see a harmful situation involving trees. We have invested in our property and need to protect our property without the need for the Ordinance or the regulations it imposes. The Ordinance prevents us from taking steps to not only protect our property but more importantly the children and other people who would be outside and could be hurt by falling branches and other items. It is just unfair to require us to hire an arborist and to obtain permits prior to conducting necessary upkeep and maintenance.

In addition, Section 163.045, Florida Statutes seems to be quite clear that a municipality cannot force a homeowner to obtain a permit before trimming, pruning or removing a dangerous tree. The City's proposed Ordinance seems, under the guise of a zoning overlay district, intended to circumvent the State law merely because some residents don't like the state law or are upset at the state law. I do not think Dania Beach should be engaging in such machinations. If the City does not like what was done by the State legislature

then it should have its lobbyist try to have the law changed instead of trying a dubious zoning change to perform a questionable disregard of State Law.

Thank you and please vote ***NO*** *with regard to this Ordinance.*
Marcos Korik

Lajoie, Corinne

From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Thursday, November 12, 2020 4:29 PM
To: Ansbro, Tom
Cc: Ryan St. George; Boutsis, Eve A.; Lajoie, Corinne; Norena, Eleanor; Jacob Ripp
Subject: Re: Zoning Overlay Ordinance Q&A

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Unfortunately, they are not required to provide notice, so the trees come down and get "trimmed" without any oversight as they've done. It's over before the city gets a chance to look.

On Nov 12, 2020, at 3:25 PM, Ansbro, Tom <tansbro@daniabeachfl.gov> wrote:

OK thanks, Ryan. Stephanie, here is the clarification.

From: Ryan St. George <Ryan.StGeorge@metriceng.com>
Sent: Thursday, November 12, 2020 3:11 PM
To: Ansbro, Tom <tansbro@daniabeachfl.gov>; Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
Cc: Lajoie, Corinne <clajoie@daniabeachfl.gov>; Norena, Eleanor <enorena@daniabeachfl.gov>; Jacob Ripp <Jacob.Ripp@metriceng.com>
Subject: RE: Zoning Overlay Ordinance Q&A

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All,

Just a quick clarification for consideration later: the House Bill/Statute does not appear to prevent the City from requiring proper oversight during the trimming/removal....only from requiring a notice, permit, fee, or mitigation.

http://www.leg.state.fl.us/statutes/index.cfm?App_mode=Display_Statute&Search_String=&URL=0100-0199/0163/Sections/0163.045.html

It appears the Statute would supersede our 48 hr. notice requirement, but would not be able to prevent us from requiring arborist oversight.

Regards,

Ryan St. George
South Florida Environmental Services Manager
<image001.png>

13940 SW 136th St, Miami, FL 33186
Office: (305) 235-5098 ext 119
Mobile: (954) 668-8244
Fax: (305) 251-5894
Ryan.stgeorge@metriceng.com
www.metriceng.com

From: Ansbro, Tom <tansbro@daniabeachfl.gov>
Sent: Thursday, November 12, 2020 1:27 PM
To: Stephanie Jofe <shrinkmom@kidbones.com>; Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
Cc: Lajoie, Corinne <clajoie@daniabeachfl.gov>; Norena, Eleanor <enorena@daniabeachfl.gov>; Ryan St. George <Ryan.StGeorge@metriceng.com>; Jacob Ripp <Jacob.Ripp@metriceng.com>
Subject: RE: Zoning Overlay Ordinance Q&A

No, the City cannot require an arborist to be present under that state law.

From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Thursday, November 12, 2020 1:11 PM
To: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
Cc: Ansbro, Tom <tansbro@daniabeachfl.gov>; Lajoie, Corinne <clajoie@daniabeachfl.gov>; Norena, Eleanor <enorena@daniabeachfl.gov>
Subject: Re: Zoning Overlay Ordinance Q&A

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Thank you all for reviewing this Q&A and clearing up any questions. It seems to me that some members of the community are fearful of requirements in the ordinance that are actually not overly burdensome and will help protect the health of the trees.
I don't know how you might use it, but it would answer some resident' most pressing questions.

One question that became less clear to me from Ryan's comments is: Can the city require an arborist to be present if they take down a tree using FL 163.045? His answer seems to imply that they can, but I didn't think so.

Thanks,
Stephanie

On Nov 12, 2020, at 10:53 AM, Boutsis, Eve A. <eboutsis@daniabeachfl.gov> wrote:

See edits.

Eve Boutsis
Assistant City Attorney| City of Dania Beach
eboutsis@daniabeachfl.gov | daniabeachfl.gov

100 W Dania Beach Blvd. | Dania Beach, FL, 33004
Phone:954-924-6800 x3631

Web: daniabeachfl.gov | **FB:** cityofdaniabeach | **Twitter:** @DaniaBeachFL
Youtube: DaniaBeachTV | **Emergency Notifications:** CodeRED

Please note: Florida has a very broad public records law. Most written communications to or from City Officials regarding City business are public records available to the public and media upon request. communications may therefore be subject to public disclosure.

From: Ryan St. George <Ryan.StGeorge@metriceng.com>
Sent: Tuesday, November 10, 2020 11:22 PM
To: Lajoie, Corinne <clajoie@daniabeachfl.gov>; Boutsis, Eve A. <eboutsis@daniabeachfl.gov>; Jacob Ripp <Jacob.Ripp@metriceng.com>; Norena, Eleanor <enorena@daniabeachfl.gov>; Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>
Cc: Sosa-Cruz, Candido <csosacruz@daniabeachfl.gov>
Subject: RE: Zoning Overlay Ordinance Q&A

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All,

There was much in the original Q/A (at the bottom of the email) that was inconsistent with the ordinance or was not adequately clear given the purpose of the email, the wording of the questions, and how this information will be distributed. To limit unnecessary confusion, I have tried to correct in red/green below without belaboring any points. Apologies if too much, but let me know if more is needed.

Regards,

Ryan St. George
South Florida Environmental Services Manager
<image001.png>
13940 SW 136th St, Miami, FL 33186
Office: (305) 235-5098 ext 119
Mobile: (954) 668-8244
Fax: (305) 251-5894
Ryan.stgeorge@metriceng.com
www.metriceng.com

From: Lajoie, Corinne <clajoie@daniabeachfl.gov>
Sent: Tuesday, November 10, 2020 3:41 PM
To: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>; Jacob Ripp <Jacob.Ripp@metriceng.com>; Ryan St. George <Ryan.StGeorge@metriceng.com>; Norena, Eleanor <enorena@daniabeachfl.gov>; Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>
Cc: Sosa-Cruz, Candido <csosacruz@daniabeachfl.gov>
Subject: RE: Zoning Overlay Ordinance Q&A

I would like Ryan/Jake to review as well to review the technical information.

I high-lighted a few words in the answers to questions number 4 & 7 that I think need to be softened a bit.

1. **Q) <u>Will I still be able to remove dangerous trees or limbs?</u>**

A. Yes. This ordinance will in no way prohibit that. Both State and City law ensure your ability can do that.

B. The only changes to the existing City code, under this overlay, which have specific bearing on the question are;
   a. The requirement that the trimming or removal company has an arborist on-site for the activity [826-40(G)], and
   b. That the City be provided 48 hours advance notification of such trimming activities [826-40(H)]

2. **<u>Q) Will the minimum landscape standards be onerous?</u>**

A. No. The actual requirement is ~~far from~~ not believed to be overly burdensome: Under the current code, minimum landscape standards for single family properties require a total of three Category 1B (12' tall) shade trees.Under the proposed Ordinance in 826-40 minimum landscape standards only require:
   a. 6 Category 1A trees (which are ~~only~~ 16' tall), **or**
   b. a combined minimum caliper of all your trees of 40" (that could even be one large tree that is already on your property), **or**
   c. 50% canopy coverage.

B. ~~which~~ Most residents in the proposed overlay district already ~~have, or are very close to having~~ satisfy one or more of these requirements and therefore meet the standards.

3. **<u>Q) If I don't make any changes to my property, but don't meet the minimum landscape standards now, will I be "grandfathered in"</u>**

A. A) Yes. While the minimum landscape standards were set to be consistent with existing tree coverage throughout the overlay area as a whole, "Any property that does not meet the tree coverage criteria contained in that Section (826-40) at the time of the ordinance adoption may submit documentation of the preexisting deficiency to preclude assessment of overlay mitigation requirements." This grandfathering applies to properties that <u>legally</u> do not meet minimum landscape standards

4. **<u>Q) If it's my property; why can't I do whatever I want on it?</u>**

A. ~~The City of Dania Beach clearly respects individual property rights, but when those rights infringe on the rights of the rest of the neighborhood, especially when it involves trees that canopy the roads and neighboring properties, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity and beauty and decreases everyone's property values. Also, when it increases flooding on the streets and other neighbors' properties, cutting down the trees clearly infringes upon the rights of others and impacts the city's stormwater management plans.~~

B. Incorporated municipalities (like Dania Beach) have a City code which establishes various standards, rules, and requirements for the collective benefit of residents and businesses, but all residents and businesses must also abide by this same code. Dania Beach's City code contains a tree preservation ordinance (Article 825) because the benefits of tree canopy have been proven, and it has been deemed by City elected officials that management of these benefits are better coordinated and managed at a City level, not on a property by property basis.

C. Recent destruction of valuable tree resources in the Harger Hills neighborhood has revealed several ways in which Article 825 of the City's existing code does not adequately protect the higher quality native tree hammock community that remains in this neighborhood. This new overlay area ordinance (Article 826) provides additional protections to guard against future similar destruction and help protect the integrity of, and benefits provided by the unique natural vegetation in this area (826-20).

5. **Q) Will I be able to fix a broken pipe?**

A. Yes. While Section 826-40 clearly indicates the ordinance applies to this exact type of property maintenance activity, non-emergency minor repairs that affect less than 30% of the root zone would not be affected by this ordinance. In addition, "Generally accepted emergency/time sensitive procedures necessary for the protection of life, health, safety or property" are excepted from these regulations. (820.60 A)

B. However, the ordinance is intended to discourage poorly planned, haphazard site work which might accidentally result in tree abuse or unnecessary destruction of healthy, mature trees by failing to consider tree-sensitive construction alternatives. See 826-50 Many contractors are unaware of such alternatives but can easily accommodate minor project modifications to better ensure survival, longevity, and most importantly safety, of protected trees. See 826-50.

6. **Q) Will I be able to repave my driveway?**

A. Like question 5 above, Yes. ~~This amendment applies to new construction~~.

B. While Section 826-40 clearly indicates the ordinance applies to this exact type of property maintenance activity, the intent is only to discourage poorly planned, haphazard site work which might accidentally result in tree abuse or unnecessary destruction of healthy, mature trees by failing to consider tree-sensitive construction alternatives. See 826-50.

7. **Q) Why do I have to try to avoid impacting or abusing the tree canopy and critical root zones roots if I want to develop, redevelop or do exterior site improvements or add structures to my property?**

A. Safety. Improperly protected and unnecessarily damaged trees become a real and proven danger to persons and structures when the damage reduces root integrity, opens wounds which allow disease, or results in weak regrowth which can't withstand storms.

B. ~~This is the only way to protect the trees/ tree canopy from death. Trees can be killed or become diseased by destroying the root system or improperly removing limbs.~~ This ~~part of the~~ ordinance simply requires a developer or resident to work with the city to avoid ~~possible~~ unnecessary tree damage. It doesn't ~~even~~ prohibit ~~the construction~~ site improvements, as long as you work with the City to "the maximum extent feasible" to prevent unnecessary tree damage and ensure minimum landscape standards are maintained..

8. **Q) Why do I have to pay for a certified arborist to trim the trees and observe that it's done correctly, and why do I have to give the city 48 hours notice?**

A. The City's code already requires that a qualified and licensed professional remove trees or limbs larger than 6" diameter. The tree trimming and removal companies in Broward County are required to have arborists on staff in order to guarantee their business licenses. All this ordinance

requires is for one of the company's arborists to be present during the trimming/removal event to ensure quality of work, and accountability. Un-supervised tree trimmers make mistakes which affect the integrity of the trees leaving them vulnerable to disease and making them dangerous during storms. Improper trimming is often the root cause (pun intended) of a healthy tree becoming a hazardous tree.

B. The 48 hour notice is required mostly for protection for the property owner. This~~Forty-eight hours~~ gives the City time to arrange for a City arborist (at the City's expense) to come out and ensure that the trimming is being done properly, and to document pre-existing conditions in case the trimmer does poor work. ~~If a tree is hazardous, this requirement would not be applicable according to state law.~~

From: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
Sent: Tuesday, November 10, 2020 10:02 AM
To: Lajoie, Corinne <clajoie@daniabeachfl.gov>; Jacob Ripp <jacob.ripp@metriceng.com>; Ryan St. George <ryan.george@metriceng.com>; Norena, Eleanor <enorena@daniabeachfl.gov>; Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>
Subject: Fwd: Zoning Overlay Ordinance Q&A

Please see enclosed. Provide comments to me as to inaccuracies.... as residents want to distribute. We need to ensure accuracy

Sent from my iPhone

Begin forwarded message:

From: Stephanie Jofe <shrinkmom@kidbones.com>
Date: November 9, 2020 at 3:28:33 PM EST
To: "Boutsis, Eve A." <eboutsis@daniabeachfl.gov>
Subject: Zoning Overlay Ordinance Q&A

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Hi Eve,.

It seems that there are quite a few misconceptions among those who oppose the ordinance and a group of us were wondering if the city could clear them up prior to the next meeting:

Q) Will I still be able to remove dangerous trees or limbs?

A) Yes. This ordinance will in no way prohibit that. Both State and City law ensure your ability can do that.

Q) Will the minimum landscape standards be onerous?

A) No. The actual requirement is far from burdensome: Under the proposed Ordinance, minimum landscape standards only require 6 Category 1A trees (which are only 16' tall), **or** a combined minimum caliber of all your trees of 40" (that could even be one large tree that is already on your property) **or** 50% canopy coverage, which most residents already have, or are very close to having.

Q) If I don't make any changes to my property, but don't meet the minimum landscape standards now, will I be "grandfathered in"

A) Yes. "Any property that does not meet the tree coverage criteria contained in that Section (826-40) at the time of the ordinance adoption may submit documentation of the preexisting deficiency to preclude assessment of overlay mitigation requirements."

Q) If it's my property; why can't I do whatever I want on it?

A) The City of Dania Beach clearly respects individual property rights, but when those rights infringe on the rights of the rest of the neighborhood, especially when it involves trees that canopy the roads and neighboring properties, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity and beauty and decreases everyone's property values. Also, when it increases flooding on the streets and other neighbors' properties, cutting down the trees clearly infringes upon the rights of others and impacts the city's stormwater management plans.

Q) Will I be able to fix a broken pipe?

A) Yes. "Generally accepted emergency/time sensitive procedures necessary for the protection of life, health, safety or property" are excepted from these regulations. (820.60 A) Nonemergent minor repairs that affect less than 30% of the root zone would not be affected by this ordinance.

Q) Will I be able to repave my driveway?

A) Yes. This amendment applies to new construction.

Q) Why do I have to try to avoid impacting or abusing the tree canopy and critical root zones roots if I want to develop, redevelop or do exterior site improvements or add structures to my property?

A) This is the only way to protect the trees/ tree canopy from death. Trees can be killed or become diseased by destroying the root system or improperly removing limbs. This part of the ordinance simply requires a developer or resident to work with the city to avoid possible tree damage. It doesn't even prohibit the construction, as long as you work with the city to "the maximum extent feasible" to prevent unnecessary tree damage.

Q) Why do I have to pay for a certified arborist to trim the trees and observe that it's done correctly, and why do I have to give the city 48 hours notice?

A) Improper trimming can affect the integrity of the trees leaving them vulnerable to disease and making them dangerous during storms. Improper trimming is often the root cause (pun intended) of a healthy tree becoming a hazardous tree. Forty-eight hours gives the City time to arrange for a City arborist (at the City's expense) to come out and ensure that the trimming is being done properly. If a tree is hazardous, this requirement would not be applicable according to state law.

Could these answers to these common questions possibly be explained to residents in advance of the meeting, perhaps with an email, or addressed by the City at the beginning of the meeting? We believe all the answers are accurate to the best of our reading of the ordinance, but we welcome your review before making this public.

Thanks so much,
Stephanie Jofe

Attention: The information contained in this E-mail message is privileged and confidential information intended only for the use of the individual(s) named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please contact the sender by reply E-mail and destroy all copies of the original message. Thank you.
Attention: The information contained in this E-mail message is privileged and confidential information intended only for the use of the individual(s) named above. If the reader of this message is not the intended recipient, you are hereby notified that any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please contact the sender by reply E-mail and destroy all copies of the original message. Thank you.

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Lajoie, Corinne

From: Silvana Korik <Silvana@korik.com>
Sent: Thursday, November 12, 2020 4:25 PM
To: Lewellen, Lori; Odman, Lauren; Brandimarte, Chickie; Harris, Bill; James, Tamara; davisfordaniabeach@gmail.com; msalvino@leeslocksmith.com; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Ansbro, Tom; Ryan St. George
Subject: Harger Hills zoning overlay Petition regarding Ordinance 826

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Mayor and Commissioners:

My name is Silvana Korik and I am the owner of the property located at 5830 SW 36th terrace Dania Beach, FL. My property is within the Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I am writing to ask that you vote against this Ordinance.

I am not in favor of the Ordinance. I begin by noting that ***this Ordinance would be the only Ordinance of its kind in the City of Dania Beach*** *and it is not fair to place such restrictions solely upon my neighborhood. The City's existing landscape ordinance is sufficient to protect the existing trees within our neighborhood. In fact, the City Code already imposes significant requirements if a property owner removes a healthy and native tree from his property. This Ordinance is merely the result of a small minority of homeowners in the neighborhood loudly complaining to the City and it does not express the will of the majority of homeowners in the neighborhood. Such action politically is referred to as "tyranny by the minority" and it should not be allowed.*

The Ordinance prevents a homeowner from properly maintaining their property when they see a harmful situation involving trees. We have invested in our property and need to protect our property without the need for the Ordinance or the regulations it imposes. The Ordinance prevents us from taking steps to not only protect our property but more importantly the children and other people who would be outside and could be hurt by falling branches and other items. It is just unfair to require us to hire an arborist and to obtain permits prior to conducting necessary upkeep and maintenance.

In addition, Section 163.045, Florida Statutes seems to be quite clear that a municipality cannot force a homeowner to obtain a permit before trimming, pruning or removing a dangerous tree. The City's proposed Ordinance seems, under the guise of a zoning overlay district, intended to circumvent the State law merely because some residents don't like the state law or are upset at the state law. I do not think Dania Beach should be engaging in such machinations. If the City does not like what was done by the State legislature then it should have its lobbyist try to have the law changed instead of trying a dubious zoning change to perform a questionable disregard of State Law.

Thank you and please vote ***NO*** *with regard to this Ordinance.*

Silvana Korik

Lajoie, Corinne

From: Rabbi Laredo <rabbilaredo@gmail.com>
Sent: Thursday, November 12, 2020 4:05 PM
To: Lewellen, Lori; Odman, Lauren; Brandimarte, Chickie; Harris, Bill; James, Tamara; davisfordaniabeach@gmail.com; msalvino@leeslocksmith.com; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Ansbro, Tom; Ryan St. George

***CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.*

My name is Rabbi Laredo and I am the owner of the property located at 5861 SW 36 TER, Dania Beach, FL. My property is within the Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I am writing to ask that you vote against this Ordinance.

I am not in favor of the Ordinance. I begin by noting that ***this Ordinance would be the only Ordinance of its kind in the City of Dania Beach*** *and it is not fair to place such restrictions solely upon my neighborhood. The City's existing landscape ordinance is sufficient to protect the existing trees within our neighborhood. In fact, the City Code already imposes significant requirements if a property owner removes a healthy and native tree from his property. This Ordinance is merely the result of a small minority of homeowners in the neighborhood loudly complaining to the City and it does not express the will of the majority of homeowners in the neighborhood. Such action politically is referred to as "tyranny by the minority" and it should not be allowed.*

The Ordinance prevents a homeowner from properly maintaining their property when they see a harmful situation involving trees. We have invested in our property and need to protect our property without the need for the Ordinance or the regulations it imposes. The Ordinance prevents us from taking steps to not only protect our property but more importantly the children and other people who would be outside and could be hurt by falling branches and other items. It is just unfair to require us to hire an arborist and to obtain permits prior to conducting necessary upkeep and maintenance.

In addition, Section 163.045, Florida Statutes seems to be quite clear that a municipality cannot force a homeowner to obtain a permit before trimming, pruning or removing a dangerous tree. The City's proposed Ordinance seems, under the guise of a zoning overlay district, intended to circumvent the State law merely because some residents don't like the state law or are upset at the state law. I do not think Dania Beach should be engaging in such machinations. If the City does not like what was done by the State legislature then it should have its lobbyist try to have the law changed instead of trying a dubious zoning change to perform a questionable disregard of State Law.

Thank you and please vote NO with regard to this Ordinance.

Lajoie, Corinne

From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Thursday, November 12, 2020 3:16 PM
To: Lajoie, Corinne
Subject: Fwd: dania beach tree canopy
Attachments: Benefits of Trees in Florida - V2 Final.docx

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Hi Corinne,
Thanks for speaking with me this morning. This is the info about the value of the trees to Dania Beach that I said I would send you.
Stephanie

Begin forwarded message:

From: "Mclean,Drew C" <drewfish@ufl.edu>
Subject: RE: dania beach tree canopy
Date: July 15, 2020 at 3:39:51 PM EDT
To: Stephanie Jofe <shrinkmom@kidbones.com>
Cc: "Koeser,Andrew" <akoeser@ufl.edu>

Stephanie,

Canopy coverage for Dania Beach is **30.0% ± 2.1%** . The plus/ minus after the first number is a 95% Confidence Interval. Since these numbers are not exact it represent the range of values that we are 95% certain the canopy coverage falls in. For example, canopy coverage could be anywhere from 27.9% to 32.1% for Dania Beach.

The urban forest in Dania Beach provides an estimated **$672,976** of benefits each year to it's residents. When you add in carbon storage (not an annual benefit) the urban forest provides over **$9 million** in benefits.

The table below is a breakdown of the estimations of the individual benefits for Dania Beach's urban forest. The plus/ minus represents the standard error in our estimations.

Benefit summary:

Value of Urban Forest Benefits	
Benefit Name	**Monetary Value ($)**
Total Air Pollution	$139,168 ± $6,624
Avoided Stormwater Runoff	$199,324 ± $7,282
CO2 Equivalent Sequestration	$334,484 ± $12,221

TOTAL ANNUAL VALUE	**$672,976 ± $26,127**
CO2 Equivalent Storage*	$8,400,314 ± $306,912
TOTAL VALUE	***$9,073,290 ± $333,039***

**not an annual value*

I attached a science communication paper I recently worked on with colleagues that talks about the benefits urban forest provide and briefly explains how we calculate canopy coverage and use that to help estimate the benefit production of an urban forest. This paper specifically focuses on the benefits of urban forests in census designated metropolitan areas throughout Florida but the general information about the benefits (stormwater reduction, air pollution, and carbon storage) applies to urban forest of all sizes.

Please feel free to reach out to Andrew or myself if you have any other questions.

Cheers,

Drew

Drew McLean
Biological Scientist II
Urban Tree and Landscape Management Lab
University of Florida/IFAS
Gulf Coast Research and Education Center
14625 CR 672 Wimauma, FL 33598
813-419-6593
drewfish@ufl.edu

-----Original Message-----
From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Tuesday, July 14, 2020 4:28 PM
To: Mclean,Drew C <drewfish@ufl.edu>
Cc: Koeser,Andrew <akoeser@ufl.edu>; Deborah Hilbert <debrivershilbert@gmail.com>
Subject: Re: dania beach tree canopy

[External Email]

Than you both so much! I look forward to hearing from you. If we can get our oak hammock officially designated as a "canopy area" perhaps we will be able to afford this area some modicum of protection- and maybe eventually partner with other communities to help each other in this regard.
Stephanie

> On Jul 14, 2020, at 3:58 PM, Mclean,Drew C <drewfish@ufl.edu> wrote:
>
> Andrew,
>
> Yes I can. I should have time tomorrow to work on the benefit calculations.
>
> -Drew
>
>> On Jul 14, 2020, at 12:46 PM, Koeser,Andrew <akoeser@ufl.edu> wrote:

>>
>> Drew,
>>
>> Could you please sent Stephanie the canopy coverage and i-tree estimates for Dania Beach when you get a chance?
>>
>> Thanks!
>>
>> Andrew
>>
>> On 7/14/20, 12:44 PM, "Stephanie Jofe" <shrinkmom@kidbones.com> wrote:
>>
>> [External Email]
>>
>> Hi Professor Koeser,
>>
>> Thank you so much for speaking with me today. Any information you could send me regarding preserving our tree canopy would be very helpful.
>>
>> Thank you so much,
>> Stephanie Jofe
>>

Lajoie, Corinne

From: Susy Pineda <susy613@gmail.com>
Sent: Thursday, November 12, 2020 2:46 PM
To: Lewellen, Lori; Odman, Lauren; Brandimarte, Chickie; Harris, Bill; James, Tamara; davisfordaniabeach@gmail.com; msalvino@leeslocksmith.com; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Ansbro, Tom; Ryan St. George
Subject: Harger Hills zoning overlay Petition regarding Ordinance 826

*****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.***

Mayor and Commissioners:

My name is Susanna Hernandez and I am the owner of the property located at 5851 SW 36 Ter, Dania Beach, FL. My property is within the Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I am writing to ask that you vote against this Ordinance.

I am not in favor of the Ordinance. I begin by noting that ***this Ordinance would be the only Ordinance of its kind in the City of Dania Beach*** *and it is not fair to place such restrictions solely upon my neighborhood. The City's existing landscape ordinance is sufficient to protect the existing trees within our neighborhood. In fact, the City Code already imposes significant requirements if a property owner removes a healthy and native tree from his property. This Ordinance is merely the result of a small minority of homeowners in the neighborhood loudly complaining to the City and it does not express the will of the majority of homeowners in the neighborhood. Such action politically is referred to as "tyranny by the minority" and it should not be allowed.*

The Ordinance prevents a homeowner from properly maintaining their property when they see a harmful situation involving trees. We have invested in our property and need to protect our property without the need for the Ordinance or the regulations it imposes. The Ordinance prevents us from taking steps to not only protect our property but more importantly the children and other people who would be outside and could be hurt by falling branches and other items. It is just unfair to require us to hire an arborist and to obtain permits prior to conducting necessary upkeep and maintenance.

In addition, Section 163.045, Florida Statutes seems to be quite clear that a municipality cannot force a homeowner to obtain a permit before trimming, pruning or removing a dangerous tree. The City's proposed Ordinance seems, under the guise of a zoning overlay district, intended to circumvent the State law merely because some residents don't like the state law or are upset at the state law. I do not think Dania Beach should be engaging in such machinations. If the City does not like what was done by the State legislature then it should have its lobbyist try to have the law changed instead of trying a dubious zoning change to perform a questionable disregard of State Law.

Thank you and please vote NO with regard to this Ordinance.

Susanna Hernandez

Lajoie, Corinne

From: Affordable Remodeling Services <Affordablequa@hotmail.com>
Sent: Thursday, November 12, 2020 2:41 PM
To: Lewellen, Lori; Odman, Lauren; Brandimarte, Chickie; Harris, Bill; James, Tamara; davisfordaniabeach@gmail.com; msalvino@leeslocksmith.com; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Ansbro, Tom; Ryan St. George
Subject: Harger Hills zoning overlay Petition regarding Ordinance 826

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Mayor and Commissioners:

My name is Ivan Pineda and I am the owner of the property located at 5851 SW 36 ter, Dania Beach, FL. My property is within the Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I am writing to ask that you vote against this Ordinance.

I am not in favor of the Ordinance. I begin by noting that ***this Ordinance would be the only Ordinance of its kind in the City of Dania Beach*** *and it is not fair to place such restrictions solely upon my neighborhood. The City's existing landscape ordinance is sufficient to protect the existing trees within our neighborhood. In fact, the City Code already imposes significant requirements if a property owner removes a healthy and native tree from his property. This Ordinance is merely the result of a small minority of homeowners in the neighborhood loudly complaining to the City and it does not express the will of the majority of homeowners in the neighborhood. Such action politically is referred to as "tyranny by the minority" and it should not be allowed.*

The Ordinance prevents a homeowner from properly maintaining their property when they see a harmful situation involving trees. We have invested in our property and need to protect our property without the need for the Ordinance or the regulations it imposes. The Ordinance prevents us from taking steps to not only protect our property but more importantly the children and other people who would be outside and could be hurt by falling branches and other items. It is just unfair to require us to hire an arborist and to obtain permits prior to conducting necessary upkeep and maintenance.

In addition, Section 163.045, Florida Statutes seems to be quite clear that a municipality cannot force a homeowner to obtain a permit before trimming, pruning or removing a dangerous tree. The City's proposed Ordinance seems, under the guise of a zoning overlay district, intended to circumvent the State law merely because some residents don't like the state law or are upset at the state law. I do not think Dania Beach should be engaging in such machinations. If the City does not like what was done by the State legislature then it should have its lobbyist try to have the law changed instead of trying a dubious zoning change to perform a questionable disregard of State Law.

Thank you and please vote NO with regard to this Ordinance.

Thank you

Ivan Pineda
Affordable Remodeling Services
5851 sw 36 ter
Fort Lauderdale, Fl 33312

954-445-0689

AFFORDABLE
REMODELING SERVICES

Lajoie, Corinne

From: Bonnie Freeman <bonnielfreeman@gmail.com>
Sent: Thursday, November 12, 2020 2:12 PM
To: Lori <llewellen@daniabeachfl.gov>; lodman@daniabeachfl.gov<lodman@daniabeachfl.gov>; cbrandimarte@daniabeachfl.gov<cbrandimarte@daniabeachfl.gov>; bharris@daniabeachfl.gov<bharris@daniabeachfl.gov>; tamarajames@daniabeachfl.gov<tamarajames@daniabeachfl.gov>; davisfordaniabeach@gmail.com<davisfordaniabeach@gmail.com>; msalvino@leeslocksmith.com; Lajoie; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Tom <tansbro@daniabeachfl.gov>; Ryan St. George
Subject: Harger Hills zoning overlay Petition regarding Ordinance 826

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Mayor and Commissioners:

My name is Bonnie Lane Freeman and I am the owner of the property located at 5771 SW 37 Terrace, Dania Beach, FL. My property is within the Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I am writing to ask that you vote against this Ordinance.

I am not in favor of the Ordinance. I begin by noting that ***this Ordinance would be the only Ordinance of its kind in the City of Dania Beach*** *and it is not fair to place such restrictions solely upon my neighborhood. The City's existing landscape ordinance is sufficient to protect the existing trees within our neighborhood. In fact, the City Code already imposes significant requirements if a property owner removes a healthy and native tree from his property. This Ordinance is merely the result of a small minority of homeowners in the neighborhood loudly complaining to the City and it does not express the will of the majority of homeowners in the neighborhood. Such action politically is referred to as "tyranny by the minority" and it should not be allowed.*

The Ordinance prevents a homeowner from properly maintaining their property when they see a harmful situation involving trees. We have invested in our property and need to protect our property without the need for the Ordinance or the regulations it imposes. The Ordinance prevents us from taking steps to not only protect our property but more importantly the children and other people who would be outside and could be hurt by falling branches and other items. It is just unfair to require us to hire an arborist and to obtain permits prior to conducting necessary upkeep and maintenance.

In addition, Section 163.045, Florida Statutes seems to be quite clear that a municipality cannot force a homeowner to obtain a permit before trimming, pruning or removing a dangerous tree. The City's proposed Ordinance seems, under the guise of a zoning overlay district, intended to circumvent the State law merely because some residents don't like the state law or are upset at the state law. I do not think Dania Beach should be engaging in such machinations. If the City does not like what was done by the State legislature then it should have its lobbyist try to have the law changed instead of trying a dubious zoning change to perform a questionable disregard of State Law.

Thank you and please vote NO with regard to this Ordinance.

Sent from my iPhone

Lajoie, Corinne

From: Sean Ritterman <Sean@Rittermans.com>
Sent: Thursday, November 12, 2020 1:46 PM
To: Lewellen, Lori; Odman, Lauren; Brandimarte, Chickie; Harris, Bill; James, Tamara; davisfordaniabeach@gmail.com; msalvino@leeslocksmith.com; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Ansbro, Tom; Ryan St. George
Subject: Harger Hills zoning overlay Petition regarding Ordinance 826
Attachments: Petition to say no to ordinance 826_pdf; Petition to say no to ordinance 826_pdf

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Mayor and Commissioners:

My name is Sean Ritterman and I am the owner of the property located at 5881 SW 36th Terrace, Dania Beach, FL. My property is within the Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I am writing to ask that you vote against this Ordinance.

I am not in favor of the Ordinance. I begin by noting that ***this Ordinance would be the only Ordinance of its kind in the City of Dania Beach*** *and it is not fair to place such restrictions solely upon my neighborhood. The City's existing landscape ordinance is sufficient to protect the existing trees within our neighborhood. In fact, the City Code already imposes significant requirements if a property owner removes a healthy and native tree from his property. This Ordinance is merely the result of a small minority of homeowners in the neighborhood loudly complaining to the City and it does not express the will of the majority of homeowners in the neighborhood. Such action politically is referred to as "tyranny by the minority" and it should not be allowed.*

The Ordinance prevents a homeowner from properly maintaining their property when they see a harmful situation involving trees. We have invested in our property and need to protect our property without the need for the Ordinance or the regulations it imposes. The Ordinance prevents us from taking steps to not only protect our property but more importantly the children and other people who would be outside and could be hurt by falling branches and other items. It is just unfair to require us to hire an arborist and to obtain permits prior to conducting necessary upkeep and maintenance.

In addition, Section 163.045, Florida Statutes seems to be quite clear that a municipality cannot force a homeowner to obtain a permit before trimming, pruning or removing a dangerous tree. The City's proposed Ordinance seems, under the guise of a zoning overlay district, intended to circumvent the State law merely because some residents don't like the state law or are upset at the state law. I do not think Dania Beach should be engaging in such machinations. If the City does not like what was done by the State legislature then it should have its lobbyist try to have the law changed instead of trying a dubious zoning change to perform a questionable disregard of State Law.

I have included signed petitions from a number of residents in the 74 lots that would be affected by this ordinance. These signatures include ONLY the residents that are officially willing to say publicly that they

oppose it. Some of the other residents are in fear of being harassed by other resident that are in favor of not being in favor of Ordinance 826 if it were to go public that they say no.

Thank you and please vote NO with regard to this Ordinance.

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Alexis Rodriguez

Name

Signature

5771 SW 37 Terrace

Fort Lauderdale, FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Name

Signature

1430 SW 37 terrace

Dania Beach FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Jessica Kutoff

Name

Signature

5801 SW 37th Terrace

Dania Beach FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Lilach Abrgel

Name

Signature

5931 SW 37 Ter

Ft Lauderdale FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

SCOTT ANAGNOSTR

Name

Signature

5940 SW 37th TERRACE

FORT LAUDERDALE, FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Sarit Levitov
Name

Signature

5960 SW 37th Terrace
Dania Beach FL. 33312
Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Kfir Shamir
Name

Signature

5741 SW 37th Ter.
Ft. Lauderdale FL 33312
Address

November 9, 2020

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Noor Abainour

Name

Signature

[illegible]

[illegible] FL [illegible]

Address

November 9, 2020

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Jennifer Chemtov
Name

Jennifer L Chemtov
Signature

5800 S.W. 36th Terrace
[redacted] Dania Beach FL 33312
Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Miriam Anselem
Name

Signature

5820 SW 36 Ter.
Ft. Lauderdale FL 33312
Address
Dania Beach

November 9, 2020

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MARCOS KOUK

Name

Signature

5830 SW 36th ter.

Dania Beach, FL 33312

Address

November 9, 2020

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My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Avi peretz

Name

Signature

5840 SW 36th terrace

Fort Lauderdale Fla. 33312

Address

November 9, 2020

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My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

David Tepper.

Name

Signature

5811 S.W 36th terrace

Dania beach Fly

Address

November 9, 2020

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Lawrence Frisch

Name

Signature

5821 S.W. 36 Terrace

Fort Lauderdale, FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Shira Sipper

Name

Shira Sipper

Signature

5921 SW 36th Terr.

Ft. Lauderdale FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Hugo Ponceroze

Name

5811 SW 36th Ter

Signature

Ft Lud Fl 3332

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

AMOS PRYNC

Name

Signature

5890 SW 36 TER

FT. LAUD. FL, 33312

Address

November 9, 2020

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My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Yossef Shamir
Name

Signature

5849 SW 36th Terr
Dania Beach Fl, 33312
Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Lauren Dabakaroff-Shamir

Name

Signature

5849 SW 36th Ter

Dania, FL 33312

Address

November 9, 2020

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My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

SARAH BITTON
Name

Signature

5861 SW 36 TER

Ft. Lauderdale. FL. 33312
Address

November 9, 2020

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My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Joshua Fish
Name

Signature

5870 SW 37th Avenue, Fort Lauderdale, FL 33312
Address

November 9, 2020

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My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Mirna Eby
Name

Signature

5940 SW 37 AVE

Dania Beach FL 33312
Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Delray Beach:

My property is subject to the proposed Harper Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Beach Fyl Hutanlas

Name

Signature

5911 SW 36th Ter

Delray Beach, FL 33445

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Sara Laniado

Name

Signature

5960 sw 37 ave

Ft Lauderdale FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Hatzel Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Name

Signature

[illegible] SW 26 Terrace

Dania Beach, FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harger Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

Michael Giacio

Name

Signature

5801 SW 36 Ter

Dania Bch Fl 33312

Address

November 9, 2020

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Amram Amselem
Name

Signature

5820 SW 36 Terr.
Dania Beach FL 33312
Address

November 9, 2020

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Bonnie Lane Freeman

Name

Signature

5771 SW 37 Terrace

Fort Lauderdale FL 33312

Address

November 9, 2020

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Arid [illegible]

Name

Signature

5950 SW 37 Terrace

Dania Beach FL 33312

Address

November 9, 2020

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David Kutoff

Name

David Kutoff

Signature

5801 SW 37th Terrace

Dania Beach FL 33312

Address

November 9, 2020

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Alisa Reichenberg

Name

Signature

5921 SW 37 Ter

Ft. Laud Fla

Address

33312

November 9, 2020

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Shevin / Jennifer Goodman
Name

Signature

5970 SW 37th Ter Ft Lauderdale Fl 33312
Address

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Eli Abrfel

Name

Signature

5981 SW 37 Ter

ft Lauderdale FL 33312

Address

November 9, 2020

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Hadar Lev-Tov

Name

Signature

5960 SW 37 terrace

Dania Beach FL 33312

Address

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Kristina Wiers-Shamir
Name

Signature

5741 SW 37th Terrace
Ft. Lauderdale FL 33312
Address

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[illegible]

Name

[illegible]

Signature

[illegible]

[illegible]

Address

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Michal Nuriel
Name

Signature

5840 SW 36th terrace
Fort Lauderdale Fla. 33312
Address

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Terry Clemtow

Name

Signature

5800 S.W. 36th Terrace

Dania Beach, FL 33312

Address

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Jacob Anselem
Name

Signature

5820 SW. 36 Terr.
Dania Beach FL 33312
Address

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Joshua Korik
Name

Signature

5830 SW 36th Terr Dania Beach

FL 33312
Address

November 9, 2020

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Silvana Kovik

Name

Signature

5830 SW 36th terrace

Dania Beach, FL 33312

Address

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Dina Frisch

Name

Signature

5821 S.W. 36 terrace

Fort Lauderdale, FL 33312

Address

November 9, 2020

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JUAN PINEDA

Name

Signature

5851 SW 36th ave

DANIA BEACH, FL 33312

Address

November 9, 2020

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Aryeh Sipper
Name

Signature

5921 SW 36th Terrace
Fort Lauderdale, FL 33312
Address

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Heidi Nusynbaum

Name

Signature

5890 SW 36 TER

Ft. Laud. FL, 33312

Address

November 9, 2020

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SUSANNA HERNANDEZ
Name

Signature

5851 SW 36 Ter

DANIA BEACH, FL 33312
Address

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Sean Ritterman

Name

Signature

5981 SW 36th Ter

Dania Beach, Florida 33312

Address

November 9, 2020

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Justin Laredo
Name

Signature

5861 SW 36 Terrace

Ft. Lauderdale, FL, 33312
Address

November 9, 2020

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Aria Edy

Name

Signature

5910 SW 37 Ave

Dania Beach FL 33312

Address

November 9, 2020

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Gilad Avakian

Name

Signature

5831 SW 37 AV FH

Address

November 9, 2020

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Name

Signature

5901 SW 36th Ter

Dania Beach, FL 33312

Address

November 9, 2020

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Moshe Laniado

Name

Signature

5960 sw 37 ave

Ft Lauderdale FL 33312

Address

November 9, 2020

Dear Mayor and City Commissioners of the City of Dania Beach:

My property is subject to the proposed Harper Hills Oak Hammock Tree Protection Overlay Ordinance. I OPPOSE this Ordinance and believe that the Ordinance should NOT be adopted. I never asked for such an Ordinance to be adopted and believe that the current City Code is more than sufficient to protect any trees that need protecting in my neighborhood.

[illegible]

Name

Signature

6901 SW 26 Terrace

Dania Beach FL 33312

Address

Lajoie, Corinne

From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Thursday, November 12, 2020 1:39 PM
To: Ansbro, Tom
Cc: Boutsis, Eve A.; Lajoie, Corinne; Norena, Eleanor; Ryan St. George; Jacob Ripp
Subject: Re: Zoning Overlay Ordinance Q&A

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

That makes Ryan St. George's answer to the first question somewhat confusing. It sounds like you would have to have an arborist present to remove a tree using 163.045, but I believe that is, unfortunately, not the case.
Thanks,
Stephanie

On Nov 12, 2020, at 1:27 PM, Ansbro, Tom <tansbro@daniabeachfl.gov> wrote:

No, the City cannot require an arborist to be present under that state law.

From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Thursday, November 12, 2020 1:11 PM
To: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
Cc: Ansbro, Tom <tansbro@daniabeachfl.gov>; Lajoie, Corinne <clajoie@daniabeachfl.gov>; Norena, Eleanor <enorena@daniabeachfl.gov>
Subject: Re: Zoning Overlay Ordinance Q&A

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Thank you all for reviewing this Q&A and clearing up any questions. It seems to me that some members of the community are fearful of requirements in the ordinance that are actually not overly burdensome and will help protect the health of the trees.
I don't know how you might use it, but it would answer some resident' most pressing questions.

One question that became less clear to me from Ryan's comments is: Can the city require an arborist to be present if they take down a tree using FL 163.045? His answer seems to imply that they can, but I didn't think so.

Thanks,
Stephanie

On Nov 12, 2020, at 10:53 AM, Boutsis, Eve A. <eboutsis@daniabeachfl.gov> wrote:

See edits.

Eve Boutsis
Assistant City Attorney| City of Dania Beach
eboutsis@daniabeachfl.gov | daniabeachfl.gov
100 W Dania Beach Blvd. | Dania Beach, FL, 33004
Phone:954-924-6800 x3631

Web: daniabeachfl.gov | **FB**: cityofdaniabeach | **Twitter**: @DaniaBeachFL
Youtube: DaniaBeachTV | **Emergency Notifications**: CodeRED

Please note: Florida has a very broad public records law. Most written communications to or from City Officials regarding City business are public records available to the public and media upon request. communications may therefore be subject to public disclosure.

From: Ryan St. George <Ryan.StGeorge@metriceng.com>
Sent: Tuesday, November 10, 2020 11:22 PM
To: Lajoie, Corinne <clajoie@daniabeachfl.gov>; Boutsis, Eve A. <eboutsis@daniabeachfl.gov>; Jacob Ripp <Jacob.Ripp@metriceng.com>; Norena, Eleanor <enorena@daniabeachfl.gov>; Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>
Cc: Sosa-Cruz, Candido <csosacruz@daniabeachfl.gov>
Subject: RE: Zoning Overlay Ordinance Q&A

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

All,

There was much in the original Q/A (at the bottom of the email) that was inconsistent with the ordinance or was not adequately clear given the purpose of the email, the wording of the questions, and how this information will be distributed. To limit unnecessary confusion, I have tried to correct in red/green below without belaboring any points. Apologies if too much, but let me know if more is needed.

Regards,

Ryan St. George
South Florida Environmental Services Manager
<image001.png>
13940 SW 136th St, Miami, FL 33186
Office: (305) 235-5098 ext 119
Mobile: (954) 668-8244
Fax: (305) 251-5894
Ryan.stgeorge@metriceng.com
www.metriceng.com

From: Lajoie, Corinne <clajoie@daniabeachfl.gov>
Sent: Tuesday, November 10, 2020 3:41 PM
To: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>; Jacob Ripp <Jacob.Ripp@metriceng.com>; Ryan St. George <Ryan.StGeorge@metriceng.com>;

Norena, Eleanor <enorena@daniabeachfl.gov>; Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>
Cc: Sosa-Cruz, Candido <csosacruz@daniabeachfl.gov>
Subject: RE: Zoning Overlay Ordinance Q&A

I would like Ryan/Jake to review as well to review the technical information.

I high-lighted a few words in the answers to questions number 4 & 7 that I think need to be softened a bit.

1. **Q) Will I still be able to remove dangerous trees or limbs?**

A. Yes. This ordinance will in no way prohibit that. Both State and City law ensure your ability can do that.

B. The only changes to the existing City code, under this overlay, which have specific bearing on the question are;
   a. The requirement that the trimming or removal company has an arborist on-site for the activity [826-40(G)], and
   b. That the City be provided 48 hours advance notification of such trimming activities [826-40(H)]

2. **Q) Will the minimum landscape standards be onerous?**

A. No. The actual requirement is ~~far from~~ not believed to be overly burdensome: Under the current code, minimum landscape standards for single family properties require a total of three Category 1B (12' tall) shade trees.Under the proposed Ordinance in 826-40 minimum landscape standards only require:
   a. 6 Category 1A trees (which are ~~only~~ 16' tall), **or**
   b. a combined minimum caliper of all your trees of 40" (that could even be one large tree that is already on your property), **or**
   c. 50% canopy coverage.

B. ~~which~~ Most residents in the proposed overlay district already ~~have, or are very close to having~~ satisfy one or more of these requirements and therefore meet the standards.

3. **Q) If I don't make any changes to my property, but don't meet the minimum landscape standards now, will I be "grandfathered in"**

A. A) Yes. While the minimum landscape standards were set to be consistent with existing tree coverage throughout the overlay area as a whole, "Any property that does not meet the tree coverage criteria contained in that Section (826-40) at the time of the ordinance adoption may submit documentation of the preexisting deficiency to preclude assessment of overlay mitigation requirements." This grandfathering applies to properties that legally do not meet minimum landscape standards

4. **Q) If it's my property; why can't I do whatever I want on it?**

A. ~~The City of Dania Beach clearly respects individual property rights, but when those rights infringe on the rights of the rest of the neighborhood, especially when it involves trees that canopy the roads and neighboring properties, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity and beauty and decreases everyone's property values. Also, when it increases flooding on the streets and other neighbors' properties, cutting down the trees clearly~~

~~infringes upon the rights of others and impacts the city's stormwater management plans.~~

B. Incorporated municipalities (like Dania Beach) have a City code which establishes various standards, rules, and requirements for the collective benefit of residents and businesses, but all residents and businesses must also abide by this same code. Dania Beach's City code contains a tree preservation ordinance (Article 825) because the benefits of tree canopy have been proven, and it has been deemed by City elected officials that management of these benefits are better coordinated and managed at a City level, not on a property by property basis.

C. Recent destruction of valuable tree resources in the Harger Hills neighborhood has revealed several ways in which Article 825 of the City's existing code does not adequately protect the higher quality native tree hammock community that remains in this neighborhood. This new overlay area ordinance (Article 826) provides additional protections to guard against future similar destruction and help protect the integrity of, and benefits provided by the unique natural vegetation in this area (826-20).

5. **Q) Will I be able to fix a broken pipe?**

A. Yes. While Section 826-40 clearly indicates the ordinance applies to this exact type of property maintenance activity, non-emergency minor repairs that affect less than 30% of the root zone would not be affected by this ordinance. In addition, "Generally accepted emergency/time sensitive procedures necessary for the protection of life, health, safety or property" are excepted from these regulations. (820.60 A)

B. However, the ordinance is intended to discourage poorly planned, haphazard site work which might accidentally result in tree abuse or unnecessary destruction of healthy, mature trees by failing to consider tree-sensitive construction alternatives. See 826-50 Many contractors are unaware of such alternatives but can easily accommodate minor project modifications to better ensure survival, longevity, and most importantly safety, of protected trees. See 826-50.

6. **Q) Will I be able to repave my driveway?**

A. Like question 5 above, Yes. ~~This amendment applies to new construction~~.

B. While Section 826-40 clearly indicates the ordinance applies to this exact type of property maintenance activity, the intent is only to discourage poorly planned, haphazard site work which might accidentally result in tree abuse or unnecessary destruction of healthy, mature trees by failing to consider tree-sensitive construction alternatives. See 826-50.

7. **Q) Why do I have to try to avoid impacting or abusing the tree canopy and critical root zones roots if I want to develop, redevelop or do exterior site improvements or add structures to my property?**

A. Safety. Improperly protected and unnecessarily damaged trees become a real and proven danger to persons and structures when the damage reduces root integrity, opens wounds which allow disease, or results in weak regrowth which can't withstand storms.

B. ~~This is the only way to protect the trees/ tree canopy from death. Trees can be killed or become diseased by destroying the root system or improperly removing limbs.~~ This ~~part of the~~ ordinance simply requires a developer or resident to work with the city to avoid ~~possible~~ unnecessary tree damage. It doesn't ~~even~~ prohibit ~~the construction~~ site improvements, as long as you

work with the City to "the maximum extent feasible" to prevent unnecessary tree damage and ensure minimum landscape standards are maintained..

8. **Q) Why do I have to pay for a certified arborist to trim the trees and observe that it's done correctly, and why do I have to give the city 48 hours notice?**

A. The City's code already requires that a qualified and licensed professional remove trees or limbs larger than 6" diameter. The tree trimming and removal companies in Broward County are required to have arborists on staff in order to guarantee their business licenses. All this ordinance requires is for one of the company's arborists to be present during the trimming/removal event to ensure quality of work, and accountability. Un-supervised tree trimmers make mistakes which affect the integrity of the trees leaving them vulnerable to disease and making them dangerous during storms. Improper trimming is often the root cause (pun intended) of a healthy tree becoming a hazardous tree.

B. The 48 hour notice is required mostly for protection for the property owner. This~~Forty-eight hours~~ gives the City time to arrange for a City arborist (at the City's expense) to come out and ensure that the trimming is being done properly, and to document pre-existing conditions in case the trimmer does poor work. ~~If a tree is hazardous, this requirement would not be applicable according to state law.~~

From: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
Sent: Tuesday, November 10, 2020 10:02 AM
To: Lajoie, Corinne <clajoie@daniabeachfl.gov>; Jacob Ripp <jacob.ripp@metriceng.com>; Ryan St. George <ryan.george@metriceng.com>; Norena, Eleanor <enorena@daniabeachfl.gov>; Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>
Subject: Fwd: Zoning Overlay Ordinance Q&A

Please see enclosed. Provide comments to me as to inaccuracies.... as residents want to distribute. We need to ensure accuracy

Sent from my iPhone

Begin forwarded message:

From: Stephanie Jofe <shrinkmom@kidbones.com>
Date: November 9, 2020 at 3:28:33 PM EST
To: "Boutsis, Eve A." <eboutsis@daniabeachfl.gov>
Subject: Zoning Overlay Ordinance Q&A

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Hi Eve,

It seems that there are quite a few misconceptions among those who oppose the ordinance and a group of us were wondering if the city could clear them up prior to the next meeting:

Q) <u>Will I still be able to remove dangerous trees or limbs?</u>

A) Yes. This ordinance will in no way prohibit that. Both State and City law ensure your ability can do that.

<u>Q) Will the minimum landscape standards be onerous?</u>

A) No. The actual requirement is far from burdensome: Under the proposed Ordinance, minimum landscape standards only require 6 Category 1A trees (which are only 16' tall), **or** a combined minimum caliber of all your trees of 40" (that could even be one large tree that is already on your property) **or** 50% canopy coverage, which most residents already have, or are very close to having.

<u>Q) If I don't make any changes to my property, but don't meet the minimum landscape standards now, will I be "grandfathered in"</u>

A) Yes. "Any property that does not meet the tree coverage criteria contained in that Section (826-40) at the time of the ordinance adoption may submit documentation of the preexisting deficiency to preclude assessment of overlay mitigation requirements."

<u>Q) If it's my property; why can't I do whatever I want on it?</u>

A) The City of Dania Beach clearly respects individual property rights, but when those rights infringe on the rights of the rest of the neighborhood, especially when it involves trees that canopy the roads and neighboring properties, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity and beauty and decreases everyone's property values. Also, when it increases flooding on the streets and other neighbors' properties, cutting down the trees clearly infringes upon the rights of others and impacts the city's stormwater management plans.

<u>Q) Will I be able to fix a broken pipe?</u>

A) Yes. "Generally accepted emergency/time sensitive procedures necessary for the protection of life, health, safety or property" are excepted from these regulations. (820.60 A) Nonemergent minor repairs that affect less than 30% of the root zone would not be affected by this ordinance.

Q) Will I be able to repave my driveway?

A) Yes. This amendment applies to new construction.

Q) Why do I have to try to avoid impacting or abusing the tree canopy and critical root zones roots if I want to develop, redevelop or do exterior site improvements or add structures to my property?

A) This is the only way to protect the trees/ tree canopy from death. Trees can be killed or become diseased by destroying the root system or improperly removing limbs. This part of the ordinance simply requires a developer or resident to work with the city to avoid possible tree damage. It doesn't even prohibit the construction, as long as you work with the city to "the maximum extent feasible" to prevent unnecessary tree damage.

Q) Why do I have to pay for a certified arborist to trim the trees and observe that it's done correctly, and why do I have to give the city 48 hours notice?

A) Improper trimming can affect the integrity of the trees leaving them vulnerable to disease and making them dangerous during storms. Improper trimming is often the root cause (pun intended) of a healthy tree becoming a hazardous tree. Forty-eight hours gives the City time to arrange for a City arborist (at the City's expense) to come out and ensure that the trimming is being done properly. If a tree is hazardous, this requirement would not be applicable according to state law.

Could these answers to these common questions possibly be explained to residents in advance of the meeting, perhaps with an email, or addressed by the City at the beginning of the meeting? We believe all the answers are accurate to the best of our reading of the ordinance, but we welcome your review before making this public.

Thanks so much,
Stephanie Jofe

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Attention: The information contained in this E-mail message is privileged and confidential information intended only for the use of the individual(s) named above. If the reader of this message is not the intended recipient, you are hereby notified that

any dissemination, distribution or copy of this communication is strictly prohibited. If you have received this communication in error, please contact the sender by reply E-mail and destroy all copies of the original message. Thank you.

Lajoie, Corinne

From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Wednesday, November 11, 2020 11:22 AM
To: Lewellen, Lori; James, Tamara; Odman, Lauren; Harris, Bill; Brandimarte, Chickie; Salvino, Marco; info@davisfordaniabeach.com; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard; Ansbro, Tom; Boutsis, Eve A.
Subject: Stormwater Runoff and the Urban Tree Canopy
Attachments: trees control stormwater runoff and improve water quality.pdf; Benefits of Trees in Florida - V2 Final.docx

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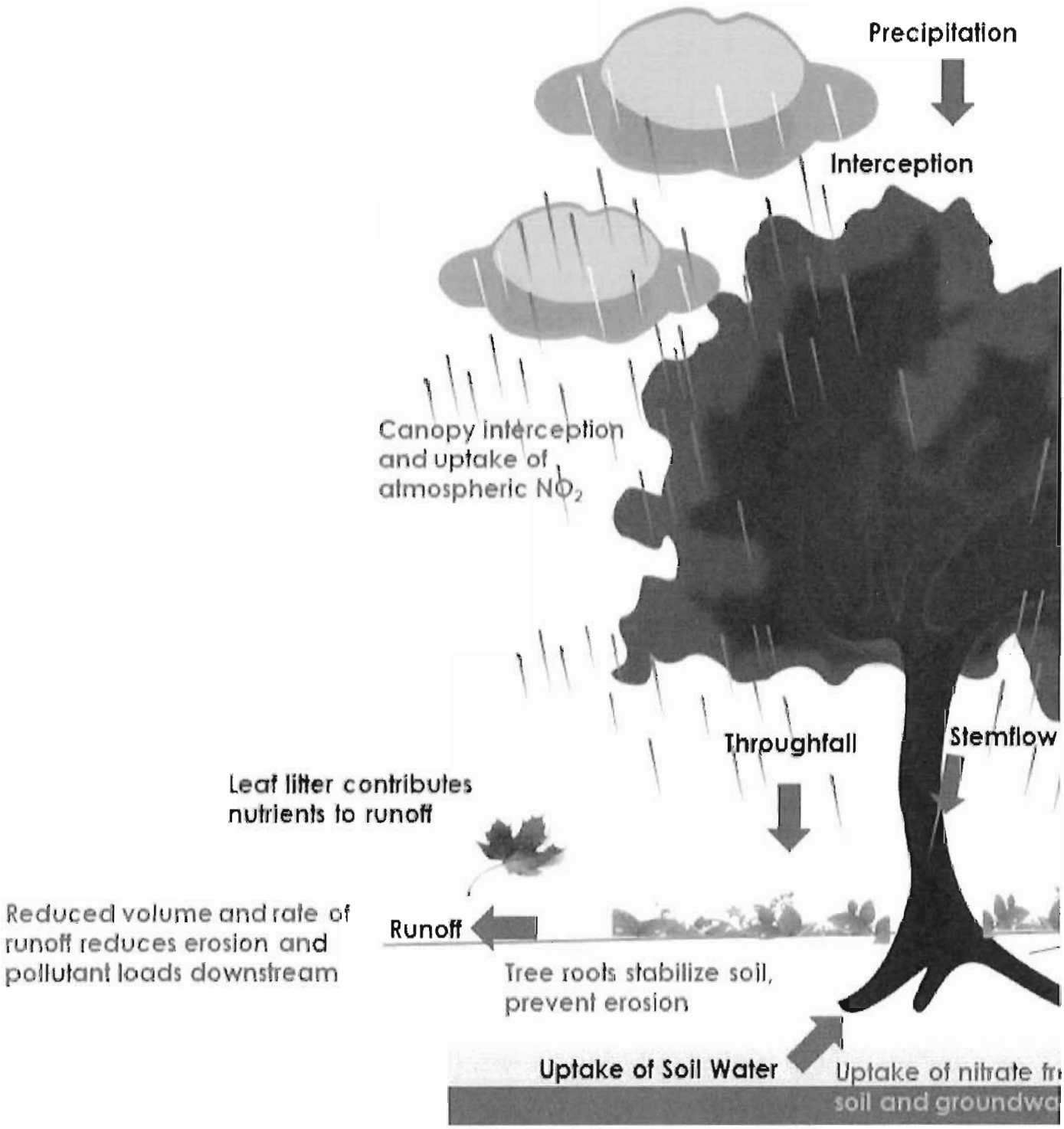
Hi Commissioners and Department Directors,

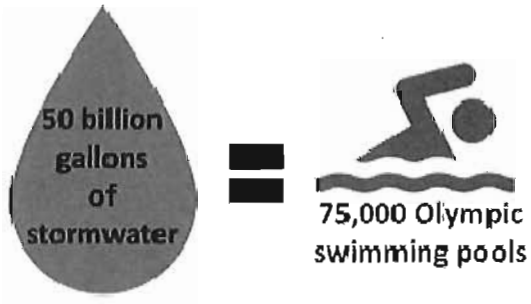
Those opposed to the Zoning Overlay Ordinance have made the claim that trees and the tree canopy do not help with stormwater runoff. There is voluminous literature which contradicts this claim and there are government entities that are actually trying to place a value on the cost savings in this area attributable to maintaining the urban tree canopy. These articles also discuss the importance of trees in filtering pollutants from the stormwater runoff, which should be an very important consideration for those concerned with the health and safety of their young children. Below is a diagram from one of the articles depicting how this process works, followed by an excerpt from the second reference below. They are followed by a list of some relevant literature. I can provide references to many more articles upon request.



Stormwater Runoff

Stormwater runoff is the rainwater that flows over the ground after a rain event. Impervious surfaces such as roads, parking lots, and rooftops do not allow water to infiltrate into the soil. Instead, these impervious surfaces swiftly direct large volumes of water into nearby stormwater drains typically ending up in neighboring waterbodies. In urban areas with increased impervious surfaces, stormwater runoff can be a significant source of pollution to local waterbodies. As water flows over impervious surfaces it can pick up many different pollutants (e.g., antifreeze, grease, pesticides, bacteria, etc.) that are present on these paved surfaces.

Trees help combat the negative effects of stormwater runoff by capturing rainfall on their leaves and bark, thereby` reducing the amount of water hitting impervious surfaces. In addition, tree roots and old fallen leaves can promote soil conditions that allow more water to enter the soil during a rain event. Collectively, the urban forests in the 29 metropolitan and micropolitan areas intercept an estimated 50 billion gallons of water a year, resulting in savings of over $451 million in avoided annual stormwater treatment costs (Table 4.) To put this volume of water in context, that is enough to fill approximately 75,000 Olympic-sized swimming pools each year (Figure 6).



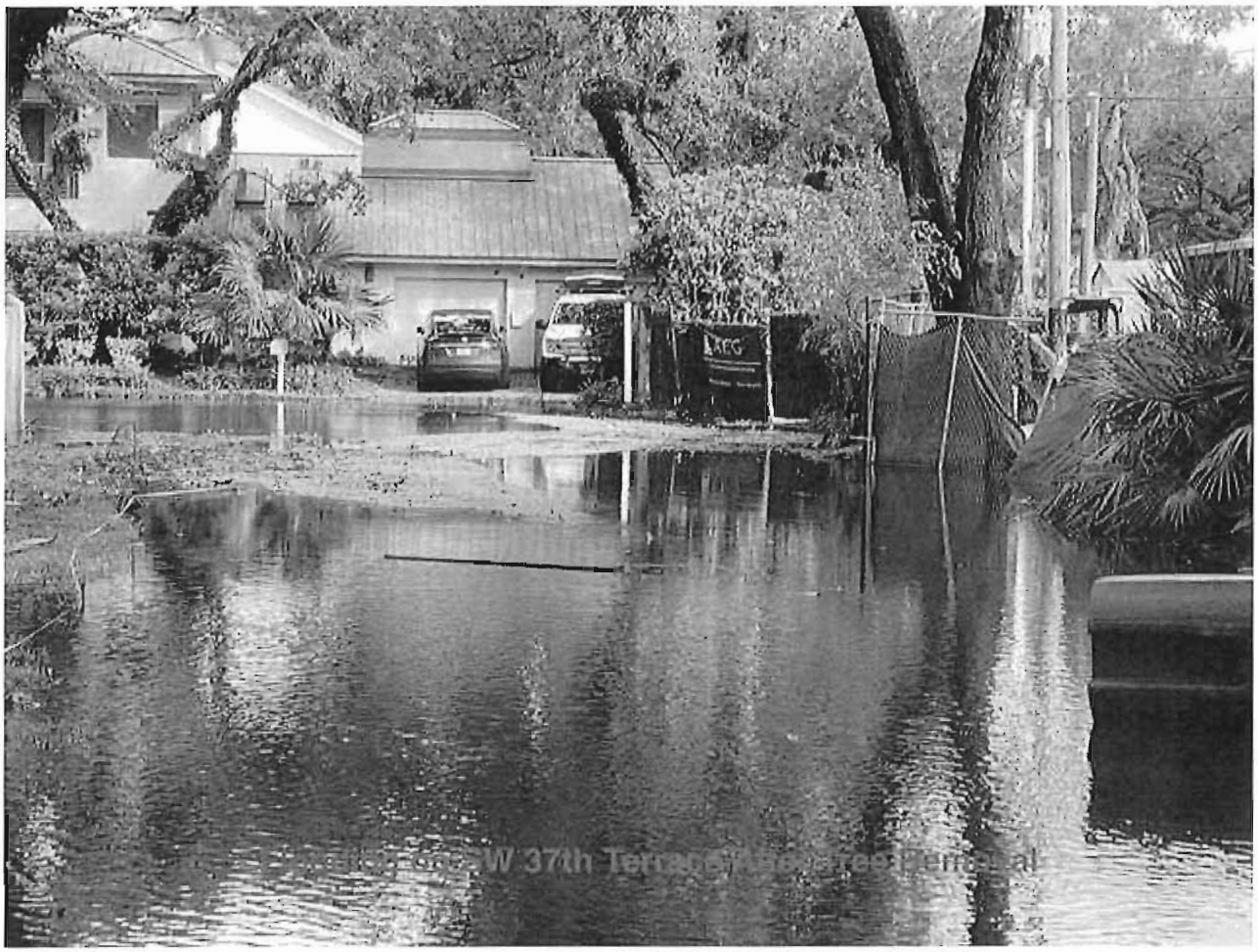
https://www.cwp.org/reducing-stormwater-runoff/ https://www.epa.gov/soakuptherain/soak-rain-trees-help-reduce-runoff

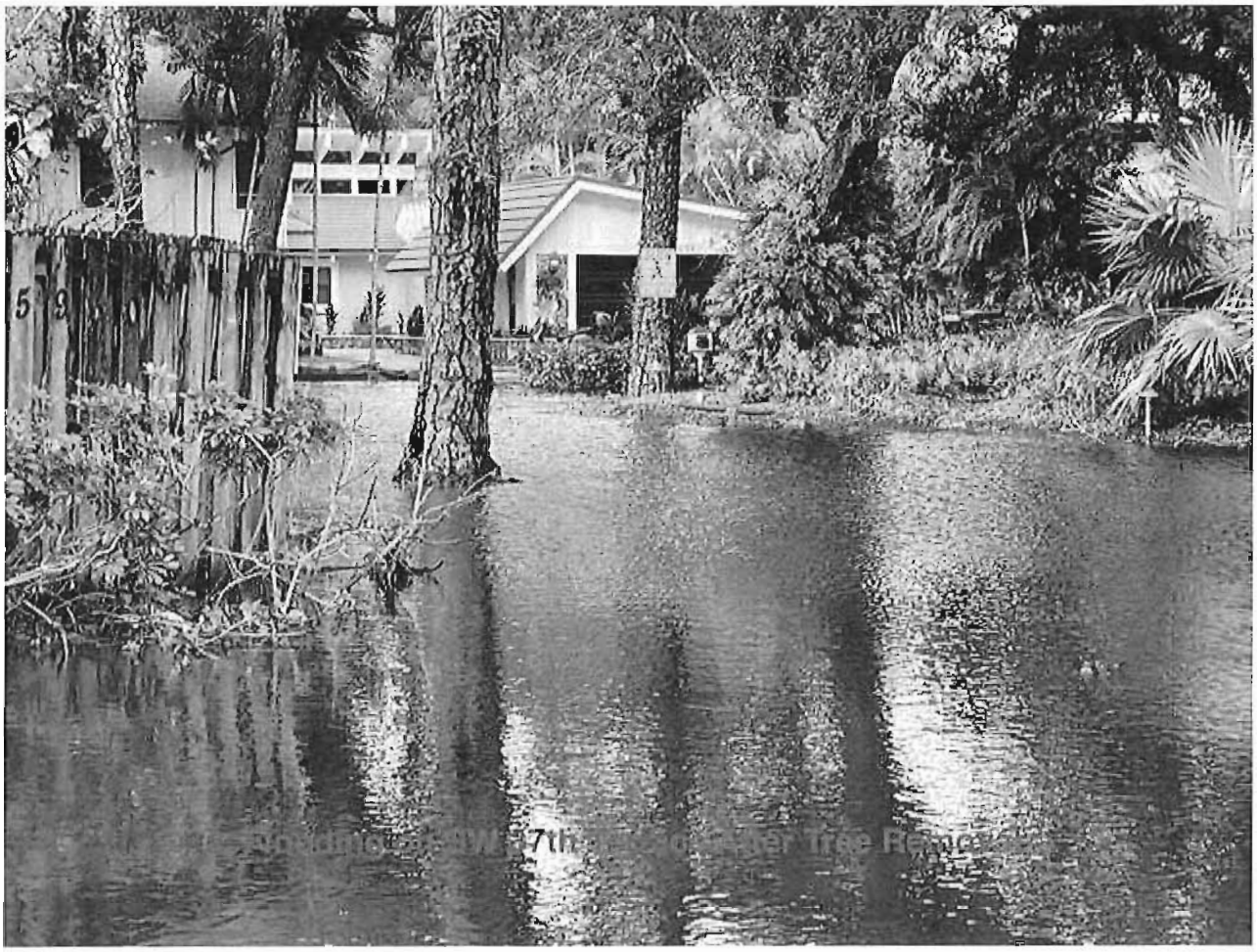
These are photos taken on our street before many large trees, primarily oaks, were removed from 5960 and 5950 SW 37th Terrace. Each before photo is followed by an after photo of the flooding that now occurs since these trees have been removed. Granted, we have had more rain than usual recently, but in my 32 years here, (and we have been through many hurricanes, including Andrew and Wilma, and many heavy tropical storms), the flooding was never like this prior to the trees being removed.

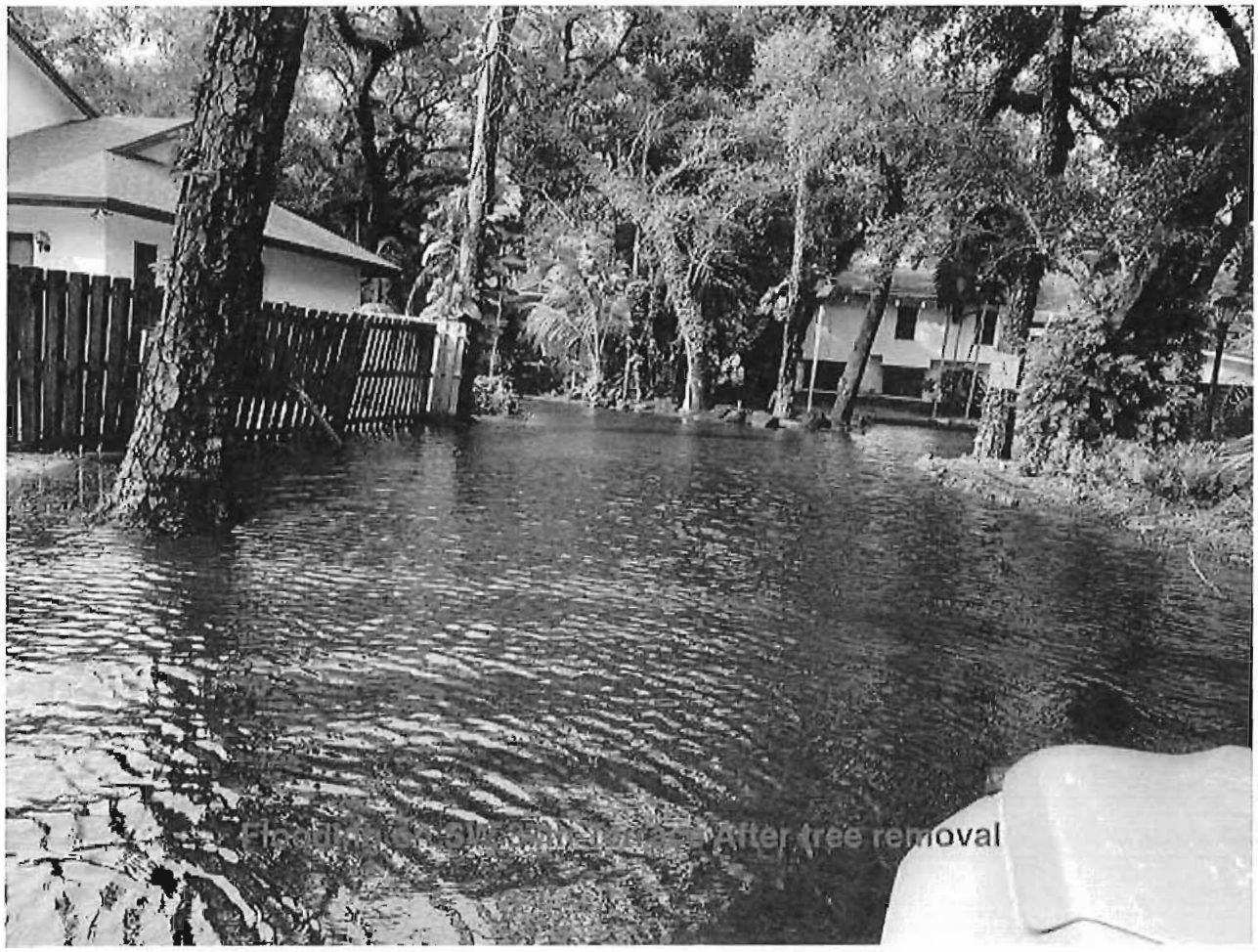
Therefore, it is imperative for the city to do whatever it can to stop and mitigate tree removal in the Harger Hills Oak Hammock. Passing the Zoning Overlay Ordinance would be one large step in this direction.

Oak Hammock 5960 SW 37th Terrace Prior to Tree Removal

Flooding on SW 37th Terrace After Tree Removal


W 37th Terrace




After tree removal

Flooding

Thank you so much for your attention to this matter and all your efforts to protect our oak hammock.

Sincerely,
Stephanie Jofe

Lajoie, Corinne

From: michelle Nadel <michelledhammer@hotmail.com>
Sent: Monday, November 09, 2020 9:38 AM
To: Garcia, Ana; Lewellen, Lori; Norena, Eleanor; James, Tamara; Harris, Bill; Lajoie, Corinne; Odman, Lauren; Lorber, Richard; Brandimarte, Chickie; Boutsis, Eve A.
Subject: Flooding SW 37th Terrace

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Good morning,

I hope you are all safe and well. As I'm sure you are aware, there is ongoing major flooding on our street. Many of our homes have become difficult to access and it has become dangerous, especially at night when we can't see how deep the flooding has become. Unfortunately, the swale has not accomplished much to alleviate the severe flooding. We kindly request your assistance with this- we need a drain or drain system that's effective so we can safely access our homes safely.

I understand Mother Nature has sent heavy rains in our area and there's flooding in other areas as well. My children's school was canceled a few weeks ago due to the flooding (on SW 40th Ave). From what we discussed in the meeting, it seems the extensive building in the area may be affecting the run-off and exacerbating the flooding situation in this area. I hope you consider this before any new developments are approved as this would truly be harmful to our community.

Please let us know what can be done to help. As always, we truly appreciated all of your time and efforts on our behalf.

Stay well!

Michelle Nadel
917.716.7945

Lajoie, Corinne

From: michelle Nadel <michelledhammer@hotmail.com>
Sent: Friday, October 23, 2020 8:37 AM
To: Lajoie, Corinne
Cc: Jessica Kutoff; Stephanie Jofe; Harvery Sepler; Boutsis, Eve A.; Ansbro, Tom; Adams, Lori; Norena, Eleanor; jacob.ripp@metriceng.com; Harrison - Prime Petals; Sarah Gonen; Gabi Hirschman; Kurt Larsen; Audra Mittleman; CIndy Riizzo; Odman, Lauren; Harris, Bill; James, Tamara; Lorber, Richard
Subject: Re: the city's unified land development code

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Good morning,

This is even more upsetting to read this. So this was all done with permits and the city understood in advance that an entire forest was about to be wiped out in our backyard with zero consideration for its residents? We were misled and this was underplayed to us as clearing some underbush when in fact, as is in your report, it was known that 95% of this forest would be destroyed. So again, we are asking and pleading for your help- what can be done to help protect us and restore our area by replacing what's been destroyed?

Michelle Nadel
917.716.7945

On Oct 22, 2020, at 5:29 PM, Lajoie, Corinne <clajoie@daniabeachfl.gov> wrote:

Good evening. I understand how upsetting this action is to you and your neighbors. Staff is alarmed as well. This afternoon we sent our arborist to the site to insure that all activity is not only in accordance with the City's existing regulations, but that it is also compliant with the Zoning in Progress and the proposed Tree Protection Overlay District regulations. Our arborist confirmed that the current tree removal and under canopy removal is in fact compliant with existing and proposed City regulations. Please see his report from this afternoon attached.

From: michelle Nadel <michelledhammer@hotmail.com>
Sent: Thursday, October 22, 2020 5:14 PM
To: Jessica Kutoff <jkutoff@gmail.com>
Cc: Stephanie Jofe <shrinkmom@kidbones.com>; Lajoie, Corinne <clajoie@daniabeachfl.gov>; Harvery Sepler <hsepler@aol.com>; Boutsis, Eve A. <eboutsis@daniabeachfl.gov>; Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>; Norena, Eleanor <enorena@daniabeachfl.gov>; jacob.ripp@metriceng.com; Harrison - Prime Petals <harrison@primepetals.com>; Sarah Gonen <mantra613@gmail.com>; Gabi Hirschman <slpgabi@gmail.com>; Kurt Larsen <larsenkurtc@gmail.com>; Audra Mittleman <audramitt@gmail.com>; CIndy Riizzo <rizzo954@gmail.com>; Odman, Lauren <lodman@daniabeachfl.gov>; Harris, Bill <bharris@daniabeachfl.gov>; James, Tamara

<tamarajames@daniabeachfl.gov>
Subject: Re: the city's unified land development code

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This is truly devastating- an entire forest has been wiped out. Not that it will be the same, but can we petition for the responsible parties to replace the area with indigenous trees? Furthermore, is there a way to protect the area from development?

Michelle Nadel
917.716.7945

On Oct 22, 2020, at 4:23 PM, Jessica Kutoff <jkutoff@gmail.com> wrote:

They removed every last tree.

Sent from my iPhone

On Oct 22, 2020, at 2:19 PM, Stephanie Jofe <shrinkmom@kidbones.com> wrote:

I just went out and looked again. This is a tragedy. Our block has gone from looking like a beautiful oasis to a city block. Isn't there anything you can do?
Please!

Stephanie

On Oct 22, 2020, at 1:58 PM, Stephanie Jofe <shrinkmom@kidbones.com> wrote:

We now have an unobstructed view of the Hard Rock Hotel and the power lines. It has totally changed the character of our block forever. We had hoped the city could protect us from something like this.
Stephanie Jofe

On Oct 22, 2020, at 1:51 PM, Lajoie, Corinne <clajoie@daniabeachfl.gov> wrote:

Good afternoon.
Yes, the City is aware of this activity. They have a tree removal permit for removal of invasive trees and invasive undergrowth. However, out of an abundance of caution, we have also sent out our arborist today to check the site to make sure they are following the limits of the permit.

From: hsepler@aol.com <hsepler@aol.com>
Sent: Thursday, October 22, 2020 11:58 AM
To: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
Cc: Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>; Lajoie, Corinne <clajoie@daniabeachfl.gov>; shrinkmom@kidbones.com; hsepler@aol.com; Norena, Eleanor <enorena@daniabeachfl.gov>
Subject: Re: the city's unified land development code

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Ms. Boutsis --

I don't know if the City is aware that most of the trees west of S.W. 37th Terrace (directly behind the houses on our street and part of the canopy that is under consideration by your Council) have been removed in the past several days. You can now see straight through to the property behind it and exposes the area to added sounds and lights and potential flooding.

Even if that property were within an FPL easement, which I don't know, I believe the tree removal is subject to Fla. Stat.

163.3209. That statute limits tree removal unless it complies with local government ordinances. This includes the underbrush that surrounds these trees.

It may be too late to stop this but, at the very least, if your office concludes that the removal violates Florida law, you may want to sanction those responsible for it.

I can't help but believe that it is an intentional flouting of the efforts to preserve the trees and the related underbrush and is quite disturbing.

Harvey Sepler
hsepler@aol.com

-----Original Message-----
From: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
To: hsepler@aol.com <hsepler@aol.com>
Cc: Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>; Lajoie, Corinne <clajoie@daniabeachfl.gov>
Sent: Fri, Oct 16, 2020 9:16 am
Subject: RE: the city's unified land development code

Understood. Thank you.

From: hsepler@aol.com <hsepler@aol.com>
Sent: Friday, October 16, 2020 9:14 AM
To: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
Cc: Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>; Lajoie, Corinne <clajoie@daniabeachfl.gov>; hsepler@aol.com
Subject: Re: the city's unified land development code

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Thank you Ms. Boutsis --

As I've expressed before, please be aware that I am not assuming legal representation for anyone in these efforts. I've made that clear to others involved in the matter and that my involvement is purely as a concerned resident. My goal is simply to help ensure that tree removal or cutting be done in a manner consistent with state and City of Dania Beach regulations.

Harvey Sepler

-----Original Message-----
From: Boutsis, Eve A. <eboutsis@daniabeachfl.gov>
To: Harvery Sepler <hsepler@aol.com>
Cc: Ansbro, Tom <tansbro@daniabeachfl.gov>; Adams, Lori <ladams@daniabeachfl.gov>; Lajoie, Corinne <clajoie@daniabeachfl.gov>
Sent: Fri, Oct 16, 2020 8:54 am
Subject: FW: the city's unified land development code

Mr. Sepler:

Per your public record request, enclosed please find the communication received by the City. I am unaware of any other communications (other than the ones received from you and Ms. Joffe).

Thank you.

<image002.jpg>

Eve A. Boutsis
Asistant City Attorney | City of Dania Beach
eboutsis@daniabeachfl.gov | daniabeachfl.gov
100 W Dania Beach Blvd. | Dania Beach, FL 33004
Phone: 954-924-6800 x3631
Web: daniabeachfl.gov | **FB:** cityofdaniabeach

Please note: Florida has a very broad public records law. Most written communications to or from City Officials regarding City business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure.

From: Lajoie, Corinne <clajoie@daniabeachfl.gov>
Sent: Wednesday, October 14, 2020 2:53 PM
To: 'Rabbi Laredo' <rabbilaredo@gmail.com>
Cc: Norena, Eleanor <enorena@daniabeachfl.gov>; Ansbro, Tom <tansbro@daniabeachfl.gov>; Boutsis, Eve A. <eboutsis@daniabeachfl.gov>; Lorber, Richard <rlorber@daniabeachfl.gov>
Subject: RE: the city's unified land development code

Good afternoon.
Thank you for contacting us. I know there are very passionate arguments on both sides of this text amendment. I encourage you to participate in the public hearing meetings to express your view and be part of the conversation.

Please see the mailed notice that was sent for the October 21st Planning and Zoning meeting as well as the October 27th meeting for first reading at City Commission. There will be one more public hearing for second reading at the City Commission which is currently scheduled for November 10th. I have also included the mailing list as you requested. Additional public notice was made in the newspaper, at City Hall and on the City's web site.

Please let me know if I you have any further questions that I can answer.

From: Rabbi Laredo <rabbilaredo@gmail.com>
Sent: Wednesday, October 14, 2020 12:42 PM
To: Lajoie, Corinne <clajoie@daniabeachfl.gov>
Cc: Norena, Eleanor <enorena@daniabeachfl.gov>
Subject: the city's unified land development code

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Good afternoon Corrine, hope all is well,

I am Rabbi Laredo, I live on 36 terrace in Dania Beach, and I feel so honored and privileged to be living in such an amazing city with the greatest elected leaders and employees.
Yesterday I received a second notice for an amendment to the city's unified land development code.
As a resident in the area attempted to be affected, here are some of my points on the matter.
Firstly, I, nor any of the neighbors I spoke to, received the notice for the first hearing, would you be so kind to send me proof that it was sent out, as it could be it was misplaced by the mail.
Secondly, I understand that there is a resident in our area, Mrs Stephanie Joffe, who has initiated this attempted amendment, and I respect her care and intentions. I personally love nature and love trees, including oak trees.
However, some of these trees have become invasive and dangerous. Oak trees are meant to live for 100 to 200 years. Many of the trees here are older and therefore are rotting, becoming a liability. Their branches clog our gutters, fall on and damage our roofs causing leaking in our homes, their roots destroy our driveways, and the roten trees become homes to rodents which make their way into our homes.
Thirdly, and I think most importantly, some of these trees are a huge liability and danger to us and most importantly our children. I'm sure you are aware that I removed an oak tree earlier this year for this very reason. I was outside playing frisbee with my 3 young children, and all of the sudden a branch approximately 10 feet long fell from 30 feet high within a few feet of my daughter. Till this day, my children are petrified and traumatized from that.
When that happened I thanked God for sparing my child, and then I made a decision, a decision that any parent would do, and I put my children's safety first. I hired an arborist to get an accurate diagnosis of the health of that tree, and once confirmed it was old and sick and a hazard I removed it, as per the state law 'House Bill 1159 Private Property Rights' permits a homeowner to do so.
As a community rabbi, we have children at our house all the time, and God forbid I would never want anyone and especially any child hurt or killed on my property because of an issue that I was

aware of and could have been easily avoided. I am not willing to take that liability and responsibility towards God. My question to the board and council of Dania Beach is, are you ready to add in writing to this amendment that you are holding yourselves liable and accountable for any damage that is incurred by any sick or old tree. Are you willing to pay for the repair of any damage they have caused or will cause if this bill is passed. And more importantly who will answer the parents of the child that will get hurt or die because of this negligence.

Please bear in mind that between these 3 blocks, we have over 100 children living and playing on our yards. Mrs Joffe, I understand, is in her 70s, I'm sure she wouldn't want to see any of her children or grandchildren hurt or killed because of these trees. I'm not sure how much time she spends outside, and how many children she actually sees on the streets. But my family and neighbors are outside a lot and now more than ever with the covid situation, our children have been home full time for 9 months and in no foreseeable future going back to school, they are practically all homeschooled.

However the truth is, Mrs. Joffe is a smart and caring woman, and she also puts life first avoiding any potential danger. I say this because within the past month she removed 2 huge oak trees from her very own property. Now I have nothing against that, no objection at all, I'm sure she got an arborist to diagnose those trees as hazardous. But frankly I don't care, because it is her property, her decision, and I would never tell anyone or impose upon anyone to do or not do anything on their property. So I would say to Mrs Joffe, firstly she is in the same boat as the rest of our area, and she understands us, because she did the very same thing. Secondly, she should kindly mind her own business and not impose anything with such important life threatening ramifications on anyone else. She is free to make any decision she wants on her own property, but it stops there.

Please make no mistake, I am a peaceful man, a man of the cloth, and I seek not to harm nor cause any dispute. As I mentioned above, I love nature and I love trees. In our religion, we are prohibited to uproot or cut down a tree, but that restriction applies to fruit

bearing trees since they don't ever grow so large and out of control becoming a liability. But even if a fruit bearing tree would, our religion doesn't only permit, but it obligates one to remove it, because life is the most precious thing and any danger to one's life must be first at all times.

I hope you can please consider my points and understand where I am coming from. I have another 20 or more households living in this area that would like to be part of next Wednesday's meeting, so I and each of them can share their own points of concern and objection to this proposed amendment. Please let me know if there is a preferred time I can call you today to discuss how we get on the virtual meeting and what the agenda for the meeting looks like. Or feel free to call my cellphone.

Thank you very much, God bless you, and thank you for your amazing work and commitment to our city.

Respectfully,

Rabbi Yaacov Laredo
954-706-2141

<mime-attachment>

Lajoie, Corinne

From: michelle Nadel <michelledhammer@hotmail.com>
Sent: Wednesday, October 21, 2020 5:36 PM
To: Lorber, Richard
Cc: Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; Norena, Eleanor; Lajoie, Corinne
Subject: Support for TX-065-20 Oak Hammock

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Good afternoon,

I would like to start by thanking you for all that you are doing as public servants. I know many times you are doing what seems like a thankless job, but we truly do appreciate all of your hard work and efforts on behalf of our community.

This letter is in support of TX-065-20: the text amendment to the city's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills Oak Hammock. I would like to explain my position. While some may instinctively resist additional oversight, I feel it is the right thing for my family personally, as well as to maintain the safety and integrity of our community. Some people who oppose this are fear mongering saying we won't be able to cut down dangerous trees or limbs and our kids' life is at stake. I understand that's not factual and, for me, this is actually about saving my children. Let me explain...

A great deal of trees have been cut down behind my house and those of my neighbors over the last year. We back up onto a 10 acre property with an FPL easement on a portion of it. There's just under 70 feet between my house and the power lines. These trees protect my kids and family from the dangerous radioactive power lines. While the trees don't completely block the EMF (electromagnetic field), it does significantly reduce the amount of exposure. The trees also block us from the glare of the Hard Rock lights. Additionally, the flooding on our block is OUT OF CONTROL, worse than ever since recently many oaks were cut down towards the front of our block.

Now, obviously, if a tree is dangerous or for other structural reasons it should and, I believe, will be allowed to be cut down and trimmed as needed. But, there is significant value in protecting these trees and the canopy we live under- most of us who live here, in fact, bought homes here specifically to be in this beautiful serene setting! For us, the pain of the upkeep and nuisance of the trees (animals, bugs, leaves, maintenance) is outweighed by the pleasure of living here. Additionally, our Oaks actually help mitigate winds in Hurricane season as well as absorbing flood waters. I am fearful for my family's safety if we don't protect the trees and I don't believe this special area will be maintained properly or potentially exist at all. As you turn into our street (SW 37th Terrace) the Oak Hammock has almost disappeared in front. I am especially fearful that a developer will come (as has been rumored) and take out the entire Oak hammock behind me (some has already been removed). I do believe that the majority of us truly want the same thing- freedom to protect our children, families and homes while maintaining the beauty around us and sustaining its' environmental benefits.

Again, I reiterate my support of this Amendment and thank you for your hard work and consideration.

Michelle Nadel

Lajoie, Corinne

From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Wednesday, October 21, 2020 11:48 AM
To: Lewellen, Lori; Odman, Lauren; James, Tamara; Harris, Bill; Brandimarte, Chickie; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard
Subject: Please support TX-065-20

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Hi Mayor Lewellen, Vice-Mayor Odman, Commissioners Brandmarte, James, and Harris, Ms. Norena, Ms. LaJoie and Mr. Lorber,

My name is Stephanie Jofe. I live at 5880 SW 37th Terrace in Dania Beach.

I am writing to you to express my support for the Zoning Overlay Ordinance TX-065-20. The City Commissioners requested this ordinance be written in order to protect the last remaining oak hammock in Dania Beach.

I have lived in my home in Dania Beach in this beautiful oak hammock, for 32 years. My husband and I raised our children here and we are very involved in our community. My husband is Surgeon-in-Chief at Joe DiMaggio Children's Hospital. I am a retired physician and full-time community volunteer. I tutor low income children in our community for four hours every day and spend the rest of my time working on environmental initiatives in my role as the Social Action Chair of my synagogue. We chose to live in this neighborhood of Dania Beach because we wanted to live among the magnificent old oaks that canopy our streets and our properties. Aside from making our streets lovely, these trees create a sense of community, add to our property values, lessen flooding, absorb sound and light pollution from Stirling Rd. and the Hard Rock Hotel Complex, shade and cool our streets and homes, and mitigate climate change.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, we and the City Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board to maintain the integrity of the oak hammock as a whole. While they and we clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define the neighborhood I have called home for over 32 years, but which is suddenly disappearing all around me.

Let me be perfectly clear. This ordinance will not prevent anyone from removing hazardous trees or trimming their trees to remove hazardous limbs. What it does is require a second opinion from the city arborist to determine whether the tree is hazardous. If it is, it's very simple to get a hazardous tree or limb removed. I recently had two completely dead trees at the front of my property removed for the safety of my neighbors because they were right next to the road. The city arborist came out as soon as I called, and I got a free permit to remove them. This will not change with the new ordinance.

What it will do, and this is what builders are really opposed to, is prohibit variances that would allow non-residential structures to be built in our neighborhood and it would work with developers and homeowners to do their best to build homes that leave the oak hammock intact. If they are absolutely unable to, it will require mitigation in terms of planting new trees or payment into a mitigation fund. We are not against building and development in our neighborhood. We are only asking that it be done in a manner that is consistent with preserving the oak hammock ecosystem and maintaining the beauty of our Dania Beach community for future generations.

Lajoie, Corinne

From: Robin Nowling <rnow914@gmail.com>
Sent: Wednesday, October 21, 2020 10:10 AM
To: Lajoie, Corinne
Subject: Urgent Request: Harger Hills Oak Hammock

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Hi. My name is Robin Nowling. I live at 5850 SW 37th Avenue, Dania Beach, Fl.

I am writing to inform you of my **support for TX-065-20**: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock. The City Commissioners requested this ordinance be written in order to protect one of the last remaining oak hammocks in Dania Beach.

I have lived in my home in Dania Beach in this beautiful oak hammock, for 32 years. We chose to live in this neighborhood of Dania Beach because we wanted to live among the magnificent old oaks that canopy our streets and our properties. Aside from making our streets lovely, these trees create a sense of community, add to our property values, lessen flooding, absorb sound and light pollution from Stirling Rd. and the Hard Rock Hotel Complex, shade and cool our streets and homes, and mitigate climate change.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I am concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board, at the request of the City Commission, to maintain the integrity of the oak hammock as a whole and protect this delicate ecosystem. While they and we clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define the neighborhood I have called home for over 32 years, but which is suddenly disappearing all around me.

Thank you so much for your attention to this matter,

Sincerely yours,

Robin Nowling

Lajoie, Corinne

From: Naomi Ruza <divinebirthsdoula@gmail.com>
Sent: Wednesday, October 21, 2020 9:54 AM
To: Lajoie, Corinne
Subject: Oak hammock

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Hi. My name is Naomi Ruza. I live at 5840 sw 37th Avenue in Dania Beach.

I am writing to inform you of my **support for TX-065-20**: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock. The City Commissioners requested this ordinance be written in order to protect one of the last remaining oak hammocks in Dania Beach.

I have lived in my home in Dania Beach in this beautiful oak hammock, for 5 years. We chose to live in this neighborhood of Dania Beach because we wanted to live among the magnificent old oaks that canopy our streets and our properties. Aside from making our streets lovely, these trees create a sense of community, add to our property values, lessen flooding, absorb sound and light pollution from Stirling Rd. and the Hard Rock Hotel Complex, shade and cool our streets and homes, and mitigate climate change.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I am concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board, at the request of

the City Commission, to maintain the integrity of the oak hammock as a wholeand protect this delicate ecosystem. While they and we clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define the neighborhood I have called home for over 5 years, but which is suddenly disappearing all around me.

Thank you so much for your attention to this matter,

Sincerely yours,

Naomi Ruza

Sent from my iPhone

Sent from my iPhone

Lajoie, Corinne

From: Richard Sabra <rbs@sabralaw.com>
Sent: Wednesday, October 21, 2020 9:01 AM
To: Lewellen, Lori
Cc: Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard
Subject: Support TX-065-20: To Protect Our Trees

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Please support support TX-065-20 to protect the Harger Hills Oak Hammock in Dania Beach.

Although we do not live in Dania Beach, our families have lived next-door, in Hollywood, for over 70 years and we have enjoyed growing up and raising our families in an area that has been badly damaged, and continues to lose much of its natural beauty by residential and commercial development.

The Harger Hills Oak Hammock took hundreds of years to develop and, once lost, will be gone for our lifetimes and the lifetimes of generations to come.

Please support the Ordinance and protect the hammock that was here long before we were, has no voice of its own, and would be lost forever without your thoughtful protection.

Thank you,

Laurie and Richard Sabra

Law Office of Richard B. Sabra & Associates
4600 Sheridan Street
Suite 300
Hollywood, Florida 33021
Telephone: (954) 989-8940
E-Mail: rbs@sabralaw.com
Website: www.sabralaw.com

Lajoie, Corinne

From: Sarah Ruza <mantra613@gmail.com>
Sent: Wednesday, October 21, 2020 1:08 AM
To: Lajoie, Corinne
Subject: Please save our tree canopy

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Hi. My name is__Sarah Ruza_____. I live at __5860 sw 37th ave_____in Dania Beach.
I am writing to inform you of my **support for TX-065-20**: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock. The City Commissioners requested this ordinance be written in order to protect one of the last remaining oak hammocks in Dania Beach.
I have lived on this street in Dania Beach in this beautiful oak hammock, for _10__years. We chose to live in this neighborhood of Dania Beach because we wanted to live among the magnificent old oaks that canopy our streets and our properties. Aside from making our streets lovely, these trees create a sense of community, add to our property values, lessen flooding, absorb sound and light pollution from Stirling Rd. and the Hard Rock Hotel Complex, shade and cool our streets and homes, and mitigate climate change. They also provide a home to wildlife such as raccoons, apossum, fox and many bird species as well as increase oxygen for the planet and humans to benefit from.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I am concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board, at the request of the City Commission, to maintain the integrity of the oak hammock as a whole and protect this delicate ecosystem. While they and we clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define the neighborhood I have called home for over __ years, but which is suddenly disappearing all around me.

Thank you so much for your attention to this matter,

Sincerely yours,

___Sarah Ruza

Lajoie, Corinne

From: Peace And Love <nuro7@msn.com>
Sent: Tuesday, October 20, 2020 11:08 PM
To: Lewellen, Lori; Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard; Lewellen, Lori; Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard; Lewellen, Lori; Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard
Subject: PLEASE STOP CUTTING THE TREES IN THE OAK HAMMOCK ECOSYSTEM

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Good night,
Please stop cutting the trees in the oak hammock ecosystem! There's so much history in these trees that CANNOT be replaced! Our children deserve to experience and appreciate nature and the beauty of these majestic trees!

We need you, our government official to stand up for this community so we can preserve the beauty for our progeny!

Marie Brown

I am writing to inform you of my **support for TX-065-20**: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock.
I support the formation of the Zoning Overlay District because the Harger Hills Oak Hammock is the last remaining oak hammock within Dania Beach and one of the few remaining oak hammocks in Broward County. Aside from making the streets in this area lovely, these trees create a sense of community, add to property values, lessen flooding, absorb sound and light pollution from Stirling Road and the Hard Rock Hotel Complex, shade and cool the streets and homes, and mitigate climate change for all of us. It is one of the few non-gated areas in the city where everyone has access to walk, run and cycle in the shade.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I and the City Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board at the request of the City Commission, to maintain the integrity of the oak hammock as a whole. While they and I clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define this very unique, but endangered neighborhood and ecosystem which is suddenly being threatened by recent building and development.

Thank you so much for your attention to this matter,

Sincerely yours,

_____Makani Kone_____

I am writing to inform you of my **support for TX-065-20**: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock.
I support the formation of the Zoning Overlay District because the Harger Hills Oak Hammock is the last remaining oak hammock within Dania Beach and one of the few remaining oak hammocks in Broward County. Aside from making the streets in this area lovely, these trees create a sense of community, add to property values, lessen flooding, absorb sound and light pollution from Stirling Road and the Hard Rock Hotel Complex, shade and cool the streets and homes, and mitigate climate change for all of us. It is one of the few non-gated areas in the city where everyone has access to walk, run and cycle in the shade.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I and the City Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board at the request of the City Commission, to maintain the integrity of the oak hammock as a whole. While they and I clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define this very unique, but endangered neighborhood and ecosystem which is suddenly being threatened by recent building and development.

Thank you so much for your attention to this matter,

Sincerely yours,

_____Makani Kone_____

Lajoie, Corinne

From:	Ovrill@loveournation.org
Sent:	Tuesday, October 20, 2020 10:52 PM
To:	Lewellen, Lori; Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard
Subject:	PLEASE STOP CUTTING THE TREES IN THE OAK HAMMOCK ECOSYSTEM
Importance:	High

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Good night,
Please stop cutting the trees in the oak hammock ecosystem! There's so much history in these trees that CANNOT be replaced! Our children deserve to experience and appreciate nature and the beauty of these majestic trees!

We need our government official's to stand up for this community so we can preserve the beauty for our progeny!

PeaceandLove,
Ovrill Dwyer
954 759 1077

I am writing to inform you of my **support for TX-065-20**: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock.

I support the formation of the Zoning Overlay District because the Harger Hills Oak Hammock is the last remaining oak hammock within Dania Beach and one of the few remaining oak hammocks in Broward County. Aside from making the streets in this area lovely, these trees create a sense of community, add to property values, lessen flooding, absorb sound and light pollution from Stirling Road and the Hard Rock Hotel Complex, shade and cool the streets and homes, and mitigate climate change for all of us. It is one of the few non-gated areas in the city where everyone has access to walk, run and cycle in the shade.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I and the City Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board at the request of the City Commission, to maintain the integrity of the oak hammock as a whole. While they and I clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define this very unique, but endangered neighborhood and ecosystem which is suddenly being threatened by recent building and development.

Thank you so much for your attention to this matter,

Sincerely yours,

Robin Feinberg

Lajoie, Corinne

From: Lisa Jaffe <jafflisa@gmail.com>
Sent: Tuesday, October 20, 2020 8:57 PM
To: Lewellen, Lori; Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard
Subject: TX-065-20

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Dear Commissioners, Building Department, Planning and Zoning Officials,

I am writing to inform you of my support for TX-065-20: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills Oak Hammock.

I support the formation of the Zoning Overlay District because the Harger Hills Oak Hammock is the last remaining oak hammock within Dania Beach and one of the few remaining oak hammocks in Broward County. Aside from making the streets in this area lovely and serving as an oasis from the traffic on Stirling Road, these trees help to attract families to this neighborhood and add to property values which, in turn, increases the tax base for Dania Beach.

The trees help to absorb excess water during rainy months and prevent homes from being flooded.They reduce the city's stormwater management costs, filter harmful substances from the water and recharge the aquifer, thereby protecting the waterways and drinking water supply.

The tree canopy absorbs the sound pollution from Stirling Road and the massive Hard Rock entertainment complex, which lies directly to the west of this neighborhood. The solitude of the area will be forever impacted by further tree removal.

The trees significantly decrease light and "visual" pollution from Stirling Road and the Hard Rock complex. The tree removal from SW 37th Terrace that is already underway exposes all of the backyards facing west to the lights and noise going on at the Hard Rock every night, making it intolerable and impossible to enjoy peace and quiet. In addition, the trees block the views of the huge power lines behind the homes.

The shade provided by the tree canopy saves energy and can cool the area up to 6-10 degrees, thereby mitigating climate change for its residents and significantly decreasing their energy bills. Trees also sequester carbon, reducing the overall concentration of greenhouse gasses in the atmosphere and they absorb CO2 from the atmosphere and convert it to oxygen. As residents of the City of Dania Beach, this issue is of particular concern, given their vulnerability to sea level rise. This is one of the few non-gated areas in the city where everyone has access to walk, run and cycle in the shade.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Haarger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I and the City

Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by the Zoning and Planning Board at the request of the City Commission, to maintain the integrity of the oak hammock as a whole. While they and I clearly respect individual property rights, when those rights infringe on the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define this very unique, but endangered neighborhood and ecosystem which is suddenly being threatened by recent building and development.

Thank you so much for your attention to this matter.

Sincerely,
Dr. Lisa Jaffe

Lajoie, Corinne

From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Monday, July 13, 2020 2:24 PM
To: Odman, Lauren; Norena, Eleanor; Boutsis, Eve A.; Lajoie, Corinne
Subject: Harger Hills Oak Hammock canopy protection area

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Dear Vice-Mayor Odman, Ms. Norena, Ms. Boutsis and Ms. LaJoie:

Our neighborhood greatly appreciates your efforts to declare the Harger Hills Oak Hammock a "designated canopy protection area." This area, as you know, encompasses the properties from the north side of Stirling Road to the north side of Shady Ridge Rd. and west of B'nai Sephardim Synagogue to the back of the properties on the west side of 40th Ave. south of Shady Ridge Rd.

We only recently became aware that in July of 2019, the Governor signed into law HB 1159 which in essence deprives local authorities the power to, among other things, exempt trees from removal. This law was enacted over the strong objection of our state senator, the Honorable Gary Farmer.

Significantly, this law incorporates exceptions. If the trees are designated as "**specimen trees**" or if the area at issue is designated as a "**canopied protection area**," the local government retains authority to determine the fate of the trees.

This makes our request all the more urgent. I can tell you that arborists set on removing trees in our neighborhood have told me that the state – and not the City of Dania Beach – has the complete say over whether trees may be removed. This was the justification arborists used when they cut down most of the trees surrounding a house on our street (5950 S.W. 37th Terrace) several weeks ago. The canopy is now gone forever.

While we certainly are respectful of individual property owner rights, where any action materially affects others' rights to enjoy their neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed. Those trees in a very real sense define the neighborhood.

Therefore, I urge you to consider our request to designate the Harger Hills Oak Hammock as "**canopied protection area**" with strong regulations regarding tree removal for new and existing properties as soon as possible. Once the trees are removed, it is too late to rectify the situation.

Thank you again. I look forward to our meeting tomorrow.

Sincerely yours,

Stephanie Jofe, M.D.

Petition to Protect Our Forest Canopy

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Signature [illegible] Print name Barry Reichenberg

Address 5921 SW 37th Terr, Ft Lauderdale (Dania) FL 33312

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Signature _____ Print name Harrison Nailey

Address 5861 SW 37th Terr.
Ft. Lauderdale, FL 33312

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Signature_____ Print name SCOTT R ANAGNOSTE, MD

Address 5940 SW 37th TERRACE, FORT LAUDERDALE, FL 33312

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Signature [signature] Print name Daniella Wigler

Address 5951 SW 37th Ter

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Signature _____ Print name Teresa H. Cook

Address 5800 SW 37th Ave. Ft. Lauderdale FL 33312

MARIKA

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Signature _____ **Print name** MARIA STARUSH

Address 3881 Shady Ridge Rd., Fort Lauderdale FL 33312

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Signature_____ Print name Stephen Heiden

Address 5801 S.W. 37th Avenue Fort Lauderdale FL 33312

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Signature Bobbye Delgado **Print name** Bobbye Delgado

Address 5900 S.W 57th Ave Dania Beach, FL 33312

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Signature _____ Print name Jacob Amselem

Address 5820 SW 36 Terrace Ft. Lauderdale 33312.

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Signature _____ Print name JENNIFER GOODMAN

Address 5970 SW 37th TERRACE, FT LAUDERDALE, FL 33312

SHEVIN & JENNIFER GOODMAN

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Signature Michelle Nadel Print name Michelle Nadel

Address 5861 SW 37th Terrace Ft. Lauderdale, FL 33312

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Signature_____ **Print name** Jaime Suarez

Address 5650 Woodland Lane Ft. Lauderdale, FL 33312

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Signature [illegible] Print name [illegible]

Address [illegible]

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Signature_____ Print name Leonard Novelli

Address 5720 SW 37th Terr. Dania Bch Fl 33312

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Signature _____ **Print name** Sonia Suarez

Address 5650 Woodland Lane Ft. Lauderdale, FL 33312

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Signature _____ Print name ROBERT MITTLEMAN

Address 5910 SW 37 Ter., Ft Lauderdale, FL 33312

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Signature Cynthia Rizzo Print name Cynthia Rizzo

Address 5821 SW 37 AVE. Ft Laud. 33312

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Signature _____ Print name Elias A. Bichachi

Address 5910 S.W. 37th Ave, Dania Beach FL. 33312

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Signature_____ Print name Shevin Goodman

Address 5970 SW 37th Ln

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Signature Miriam Anselem Print name Miriam Anselem

Address 5820 SW 36 Terrace
Ft. Lauderdale FL 33312

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Signature Michelle Vanlandingham Print name Michelle Vanlandingham

Address 5850 S.W. 36 Terrace Ft. lauderdale, Fl. 33312

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3. **The tree canopy absorbs the sound pollution from Stirling Road and the massive Hard Rock Hotel complex, which is directly to the west of us. There is already a noticeable increase in the volume of city noise from Stirling Rd. from one large tree recently being removed for construction of a home on SW 37th Terrace near Stirling Road. The solitude of our neighborhood will forever be impacted by further tree removal.**

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Signature _____ Print name _____ Norm Koenigsberg

Address 3891 SW 37th Terrace Fort Lauderdale FL 33312

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Signature Debra Larsen Print name Debra Larsen

Address 5810 SW 36 Ter Ft. Lauderdale, FL 33312
(Dania Beach)

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Signature_____ Print name Michael Jole

Address 5880 SW 37th Ter, Ft. Laud, FL 33312

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Signature _____ **Print name** STEVE HARDEE

Address 5500 WOODLAND LANE FT LAUDERDALE FL 33312

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Signature_____ Print name JAMES T. RIZZO

Address 5821 SW 37 AVE FT LAUD, FL 33312

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Signature _____ **Print name** JUSTIN BROWLING

Address 5850 SW 37 AVE Dania Beach 33312

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Signature Winnie Heyns **Print name** Winnie Heyns

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Signature _____ Print name Anthony Benedict

Address 5841 SW 37 Ave Dania FL 33312

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Signature _____ Print name Kurt C. Larsen

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Signature_____ Print name Alisa Reichenberg

Address 5921 SW 37 Terr Ft. Laud (Dania) 33312

Petition to Protect Our Forest Canopy

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The neighborhood feels this is important for the following reasons:

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3. The tree canopy absorbs the sound pollution from Stirling Road and the massive Hard Rock Hotel complex, which is directly to the west of us. There is already a noticeable increase in the volume of city noise from Stirling Rd. from one large tree recently being removed for construction of a home on SW 37th Terrace near Stirling Road. The solitude of our neighborhood will forever be impacted by further tree removal.

4. The trees significantly decrease light and "visual" pollution from Stirling Road and the Hard Rock Hotel complex. Tree removal from behind the homes on SW 37th Terrace- which has already begun- exposes all the backyards along the western side of our small residential neighborhood to the lights and sounds of a massive entertainment complex every single night. It has already become intolerable and will only get worse if more trees behind our homes are removed. In addition, the trees block the views of the huge powerlines behind our homes.
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Signature Steven S. Saber Print name STEVEN S. SABER

Address 5961 SW 37TH TERRACE

STERLING OAKS ESTATES 06/07/2020

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Signature _____ **Print name** 11/9/20

Address 3911 Shady Ridge Road. Ft. Lauderdale. FL. 33312

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Signature [illegible] Print name Jessica Kurtoff

Address 5801 SW 37th Ter Dania Beach FL 33312

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Signature _____ Print name Audra Mittleman

Address 5910 SW 37 Ter, Ft. Lauderdale, FL 33312

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Signature _____ Print name Edward T. Cooks

Address 5800 SW 37 Ave, Ft. L, 33312

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Signature Suzanne Shaw **Print name** Suzanne Shaw

Address 3911 Shady Ridge Rd. 33312

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Signature [illegible] Print name Gabriella Hirschmann

Address 5910 S.W. 37th Ave, Dania Beach FL. 33312

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Signature Susan Heiden Print name Susan Heiden

Address 5801 S.W. 37th Avenue Fort Lauderdale, FL 33312

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Signature Linda B. Marant Print name Linda B. Marant

Address 5870 S.W. 36 Terrace, Dania Beach, FL 33312

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Signature_____ Print name HARVEY SEPLER

Address 1840 SW 37th TERRACE, Lauderdale FL 33312

RON

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Signature _____ Print name RON STARVISH

Address 3881 SHADY RIDGE ROAD

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Signature MBrodie Print name Martha Brodie

Address 5840 SW 37 Terrace, Ft. Lauderdale, FL 33312

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Signature _____ **Print name** Jillian Talbot

Address 5400 Woodland Lane, Ft Lauderdale 33312

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Signature _____ Print name David Kubiff

Address 5801 SW 37th Terrace

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Signature Rachel Novelli Print name Rachel Novelli

Address 5720 SW 37th Terr. Dania Bch FL 33312

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Signature [signature] Print name Mark N. Wigler

Address 5951 SW 37th Terrace, Ft. Lauderdale, FL 33312

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Signature _____ Print name Lori Singer

Address 3901 Laurel Oak Way Fort Lauderdale 33312

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Signature Stephanie Jofe Print name Stephanie Jofe

Address 5880 SW 37th Ter, Ft Lauderdale FL 33312

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Signature Robin Nowling **Print name** Robin Nowling

Address 5850 SW 37th Ave, DANIA BEACH, 33312

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Signature_____ **Print name** Naomi Ruza

Address 5840 SW 37th ave, Ft. Laud. FL 33312

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Signature [signature] Print name Kevin Singh

Address 3901 Laurel Oak Way Fort Lauderdale Fl 33312

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Signature Alexis Vanlandingham Print name Alexis Vanlandingham

Address 5850 SW 36 Terrace, Ft. Lauderdale FL 33312

From: **Mclean,Drew C** drewfish@ufl.edu
Subject: RE: dania beach tree canopy
Date: July 15, 2020 at 3:40 PM
To: Stephanie Jofe shrinkmom@kidbones.com
Cc: Koeser,Andrew akoeser@ufl.edu

DM

Stephanie,

Canopy coverage for Dania Beach is **30.0% ± 2.1%** . The plus/ minus after the first number is a 95% Confidence Interval. Since these numbers are not exact it represent the range of values that we are 95% certain the canopy coverage falls in. For example, canopy coverage could be anywhere from 27.9% to 32.1% for Dania Beach.

The urban forest in Dania Beach provides an estimated **$672,976** of benefits each year to it's residents. When you add in carbon storage (not an annual benefit) the urban forest provides over **$9 million** in benefits.

The table below is a breakdown of the estimations of the individual benefits for Dania Beach's urban forest. The plus/ minus represents the standard error in our estimations.

Benefit summary:

Value of Urban Forest Benefits	
Benefit Name	**Monetary Value ($)**
Total Air Pollution	$139,168 ± $6,624
Avoided Stormwater Runoff	$199,324 ± $7,282
CO2 Equivalent Sequestration	$334,484 ± $12,221
TOTAL ANNUAL VALUE	**$672,976 ± $26,127**
CO2 Equivalent Storage*	$8,400,314 ± $306,912
TOTAL VALUE	***$9,073,290 ± $333,039***

**not an annual value*

I attached a science communication paper I recently worked on with colleagues that talks about the benefits urban forest provide and briefly explains how we calculate canopy coverage and use that to help estimate the benefit production of an urban forest. This paper specifically focuses on the benefits of urban forests in census designated metropolitan areas throughout Florida but the general information about the benefits (stormwater reduction, air pollution, and carbon storage) applies to urban forest of all sizes.

Please feel free to reach out to Andrew or myself if you have any other questions.

Cheers,

Drew

Drew McLean
Biological Scientist II
Urban Tree and Landscape Management Lab
University of Florida/IFAS
Gulf Coast Research and Education Center
14625 CR 672 Wimauma, FL 33598
813-419-6593
drewfish@ufl.edu

-----Original Message-----
From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Tuesday, July 14, 2020 4:28 PM
To: Mclean,Drew C <drewfish@ufl.edu>
Cc: Koeser,Andrew <akoeser@ufl.edu>; Deborah Hilbert <debrivershilbert@gmail.com>
Subject: Re: dania beach tree canopy

[External Email]

Than you both so much! I look forward to hearing from you. If we can get our oak hammock officially designated as a "canopy area" perhaps we will be able to afford this area some modicum of protection- and maybe eventually partner with other communities to help each other in this regard.
Stephanie

> On Jul 14, 2020, at 3:58 PM, Mclean,Drew C <drewfish@ufl.edu> wrote:
>
> Andrew,
>
> Yes I can. I should have time tomorrow to work on the benefit calculations.
>
> -Drew
>
>> On Jul 14, 2020, at 12:46 PM, Koeser,Andrew <akoeser@ufl.edu> wrote:
>>
>> Drew,
>>
>> Could you please sent Stephanie the canopy coverage and i-tree estimates for Dania Beach when you get a chance?
>>
>> Thanks!
>>
>> Andrew
>>
>> On 7/14/20, 12:44 PM, "Stephanie Jofe" <shrinkmom@kidbones.com> wrote:
>>
>> [External Email]
>>
>> Hi Professor Koeser,
>>
>> Thank you so much for speaking with me today. Any information you could send me regarding preserving our tree canopy would be very helpful.
>>
>> Thank you so much,
>> Stephanie Jofe
>>

Benefits of
Trees i...al.docx

Florida's Urban Forest: A Valuation of Benefits[1]

Drew C. McLean, Andrew K. Koeser, Deborah R. Hilbert, Shawn Landry, Amr Abd-Elrahman, Katie Britt, Mary Lusk, Michael Andreu, and Rob Northrop[2]

What is an Urban Forest?

An urban forest is a collection of trees and other woody vegetation found in and around human developments. An urban forest can be thought of as a gradient of trees extending from the street trees of densely packed urban cores, past the landscaped suburban plots, and all the way out to the remnant forests of exurban (or edges of urban) lands. It includes all the woody vegetation found in urban parks, industrial landscapes, residential properties, wetlands, riparian corridors, coastal ecosystems, greenways, and nature preserves, regardless of ownership (Figure 1).

Figure 1. Urban forest gradient; from left to right and top to bottom: urban street trees, park trees, residential trees, and trees along a trail in a nature preserve.
Credit: Drew C. McLean, UF/IFAS

Tree Canopy Coverage

Urban forest managers use a range of measurements to describe and value the urban forest and its benefits. One measurement that can be made over large areas of land with relative ease is the quantification of tree canopy coverage. Tree canopy cover is the percent of a given land area (e.g., city, national forest, etc.) covered by leaves and branches when viewed from above (Figure 2). Canopy coverage assessments are important tools that allow a community to estimate current canopy coverage, understand the extent of the urban forest, and track potential changes over time. Canopy coverage can be measured in the field with specialized equipment or by analysis of aerial and satellite imagery.

Figure 2. Aerial view of tree canopy coverage in a residential neighborhood.
Credit: Piqsels.com

Florida has 29 metropolitan and micropolitan census designated areas, representing 51 of the 67 counties and over 98% of the state's population (U.S. Census Bureau, 2019). These census-designated areas represent geographical regions with at least one densely populated urban area and related economic ties. Metropolitan areas must have one city or town with at least 50,000 people while micropolitan areas must have a city or town with a population between 10,000 and 50,000 people (U.S. Census Bureau, 2019).

To assess the urban forest throughout the state, we analyzed canopy coverage and its associated benefits in each of these census designated areas. Tree canopy coverage was estimated using a

point-based sampling approach. This method generates random points within a designated boundary on high-resolution aerial imagery. The random points are then assessed by a photo interpreter and classified as "Tree/Shrub" or "No-Tree". The classified points are tallied and summed to reach an overall canopy coverage percentage.

Tree canopy coverage ranged from 18.6% in the Okeechobee micropolitan area to 74.4% in the Crestview-Fort Walton-Destin metropolitan area (Table 1). In general, canopy coverage tended to decrease from North to South and West to East across the state (Figure 3).

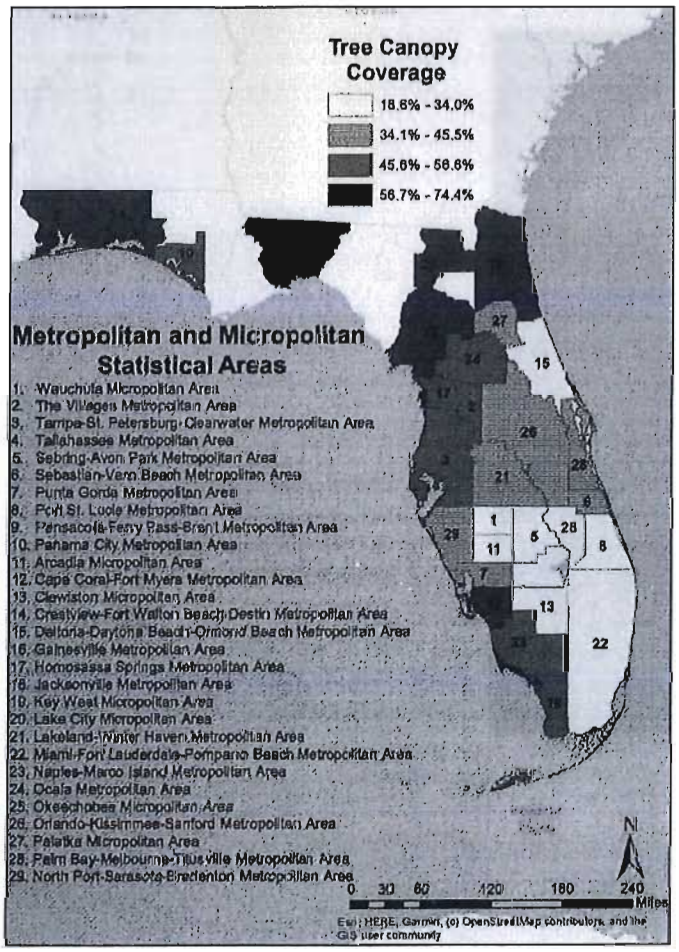

Figure 3. Locations of the 29 metropolitan and micropolitan areas in Florida. The different colors represent the percent of canopy coverage. Numbers correspond to the metropolitan and micropolitan area names in the legend on left side of the figure.

Urban Forest Benefits

Urban forests ecosystems provide a variety of economic and environmental benefits (Livesley et al., 2016) including shading homes to create energy savings, intercepting rain to reduce stormwater, improving air quality by filtering pollutants and sequestering carbon to offset emissions associated with climate change. Many urban forest benefits are influenced by the combined surface area of all the leaves in a tree's canopy (Peper and McPherson, 2003). Researchers use leaf area measurements to estimate the benefits provided by individual trees in an urban forest (Figure 4).

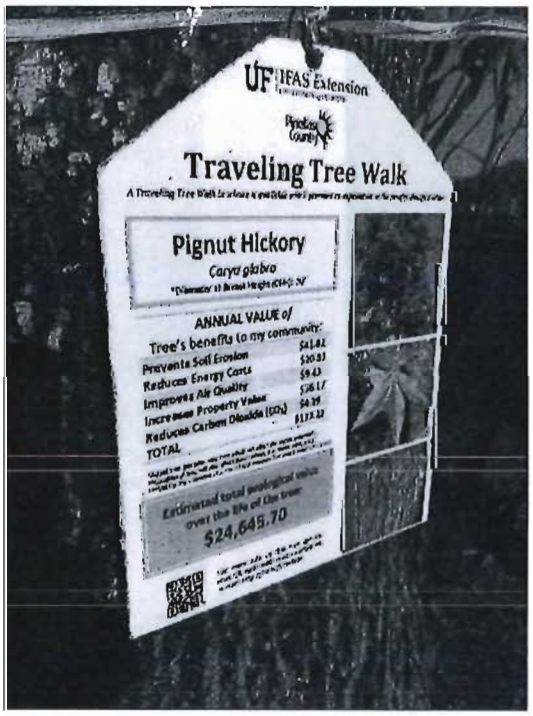

Figure 4. Sign displaying some of the estimated benefits produced from a tree in Pinellas County, FL. Credit: Drew C. McLean, UF/IFAS

Researchers have developed ecosystem services models that use urban forest data to calculate the total economic value of all trees in a designated area, typically at the city or county level. Prior urban forest ecosystem service assessments for Gainesville and Tampa, Florida can be found at:

https://edis.ifas.ufl.edu/fr265 (Tampa) and https://edis.ifas.ufl.edu/fr414 (Gainesville). Evaluation of these benefits allows city managers and citizens to gauge the importance of the urban forest compared to other key infrastructure elements and to budget for the appropriate management of this natural resource.

Currently these models are able to estimate only some of the more tangible benefits of the urban forest, like the ones mention above. There are many other important benefits such as wildlife habitat, recreational value, and human psychological effects. Researchers are working to apply economic values to these less tangible but important services. While all of these models are based on the best available science at the time, the data they produce are still just estimations.

For this study, the total acreage of each metropolitan and micropolitan area was calculated in a geographic information system (ArcGIS v10.5, ESRI). Acreage of tree canopy was estimated by multiplying the total area of each census-designated boundary by the canopy coverage percentage obtained during the aerial imagery interpretation process. We used the estimation of "canopy area" (Table 1) in each metropolitan and micropolitan area to calculate the value of benefits received from their corresponding urban forest. Benefit production rates (ex. tons of air pollution removed per acre) and the monetary values for air pollution, avoided runoff, carbon sequestration, and carbon storage were based on data obtained from the i-Tree Canopy software v7.0 (https://canopy.itreetools.org/benefits/).

Air Pollution Removal

Toxic air pollutants such as carbon monoxide (CO), nitrogen dioxide (NO_2), ground level Ozone (O_3), sulfur dioxide (SO_2), and particulate matter (PM_{10} and $PM_{2.5}$) can cause adverse effects to human health, disrupt ecosystem processes and reduce visibility in cities (EPA, 2019). Carbon monoxide, sulfur dioxide, and nitrogen dioxide gas are released into the atmosphere mainly through the burning of fossil fuels in power plants, industrial facilities, and automobiles. Ground level Ozone is created by chemical reactions between air pollutants and sunlight (EPA, 2019). Particulate matter can be released directly from a source such as unpaved roads, fields, and smokestacks or created in the atmosphere through complex chemical reactions.

Air pollutants have been shown to affect cardiovascular and respiratory health, with long-term exposure potentially leading to the development of serious diseases (Stieb et al., 2009). In addition to the human health effects, air pollutants negatively affect the environment by contributing to pollution of coastal waters, smog production, and the formation of acid rain (Manisalidis et al., 2020).

Tree leaves primarily remove air pollutants by directly absorbing them or indirectly capturing them on their surfaces (Grote et al., 2016; Nowak et al., 2006). Altogether, the trees in Florida's 29 census designated areas remove over 600,000 tons of combined air pollution each year, saving Florida residents an estimated $605 million in annual air pollution related health care

costs (Figure 5; Table 2). Estimated removal amounts for each air pollutant are listed by micropolitan and metropolitan area in Table 3.

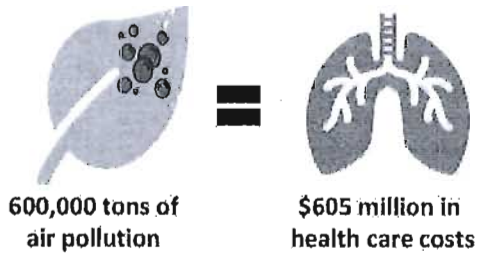

Figure 5. Tree leaves remove an estimated 600,000 tons of air pollutants each year, saving Floridians $605 million in air pollution related health care costs annually.

Stormwater Runoff

Stormwater runoff is the rainwater that flows over the ground after a rain event. Impervious surfaces such as roads, parking lots, and rooftops do not allow water to infiltrate into the soil. Instead, these impervious surfaces swiftly direct large volumes of water into nearby stormwater drains typically ending up in neighboring waterbodies. In urban areas with increased impervious surfaces, stormwater runoff can be a significant source of pollution to local waterbodies. As water flows over impervious surfaces it can pick up many different pollutants (e.g., antifreeze, grease, pesticides, bacteria, etc.) that are present on these paved surfaces.

Trees help combat the negative effects of stormwater runoff by capturing rainfall on their leaves and bark, thereby` reducing the amount of water hitting impervious surfaces. In addition, tree roots and old fallen leaves can promote soil conditions that allow more water to enter the soil during a rain event. Collectively, the urban forests in the 29 metropolitan and micropolitan areas intercept an estimated 50 billion gallons of water a year, resulting in savings of over $451 million in avoided annual stormwater treatment costs (Table 4.) To put this volume of water in context, that is enough to fill approximately 75,000 Olympic-sized swimming pools each year (Figure 6).

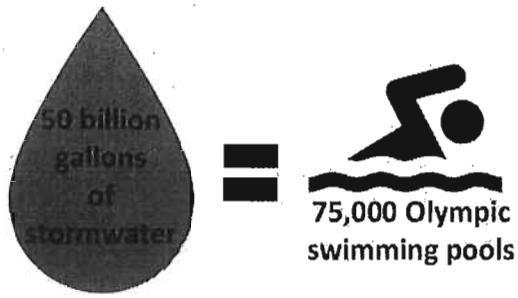

Figure 6. The amount of water Florida's urban forest reduce stormwater volumes by each year is enough to fill 75,000 Olympic swimming pools.

Carbon Sequestration and Storage

Carbon dioxide (CO_2) is a major greenhouse gas that plays a significant role in global climate change. Carbon dioxide is mainly released to the atmosphere through the burning of fossil fuels (EPA, 2019). Trees can help combat climate change by taking in carbon dioxide from the atmosphere. During photosynthesis, trees take in atmospheric carbon dioxide and store it as carbon in their trunks, branches, and roots. A tree will continue to sequester and store carbon until it dies.

Carbon sequestration and storage rates are often presented as 'carbon dioxide equivalents' as a way of measuring carbon footprints. Carbon dioxide equivalents report a single number to represent the amount of carbon dioxide that would create the same impact as all of the greenhouse gases combined (e.g., carbon dioxide, methane, nitrous oxide, and ozone). For example, since methane is a more powerful greenhouse gas, one ton of methane is equivalent to 25 tons of carbon dioxide (EPA, 2019).

Equivalent calculators can be used to express these extremely large emission values in terms that are easier to digest and understand (Figure 7). Florida's urban forests sequester (e.g., capture through active growth) 65 million tons of carbon dioxide equivalent a year, which translates to an estimated $3 billion in annual benefits (Table 5). Florida's urban forests store (in their wood) a total of one billion tons of carbon dioxide equivalent, worth an estimated $76 billion in services (Table 6).

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*See below "acknowledgements" for details

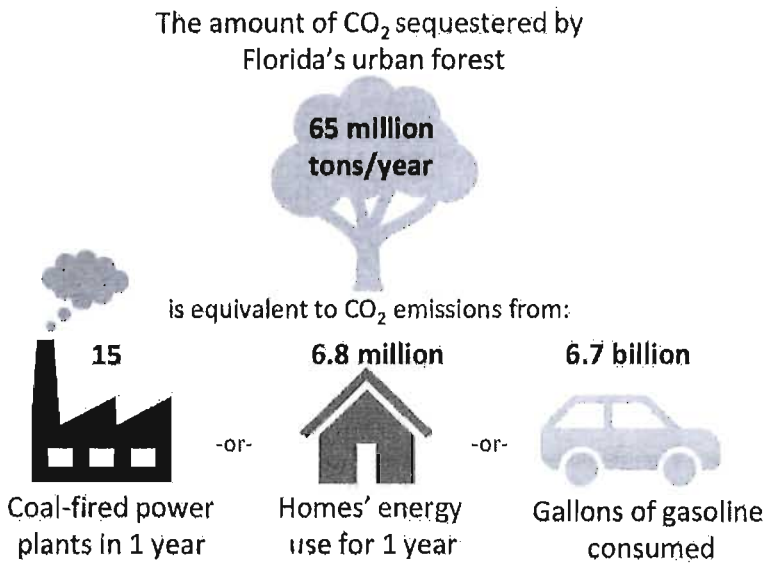

Figure 7. Carbon dioxide emission equivalent infographics.
Data Source: U.S. EPA greenhouse gas equivalencies calculator.

Valuable Natural Resource

Florida's urban forests are an extremely valuable natural resource that provide an estimated $4.1 billion in annual benefits for its citizens and visitors (Table 7). In addition, these urban forests will provide an estimated $76 billion in climate change benefits over their lifespan as trees continue to grow, storing more carbon in their tissues. It is important to remember the benefit numbers and monetary values presented in this report are estimations obtained from scientific models. While these numbers may not be absolute, they are based on the best available science and are important for estimating the value of urban forests and the services they provide. In addition, this valuation of Florida's urban forest only includes some of the more tangible benefits and we did not assess every county in the state. Many of the benefits presented in this report are influenced by the health and size of an individual tree's canopy. Preservation and management of the urban forest is critical to ensure that citizens receive the maximum benefits that urban trees can provide.

Acknowledgements

The authors would like to acknowledge the following people for their indispensable help conducting the canopy assessments: Brooke Anderson, Saige Middleton, and Hunter Thorn.

<Sidebar 1.... Place in carbon sequestration and storage section near the end>

Carbon Pricing

Carbon pricing is a financial based strategy that assigns monetary value to carbon emissions to help combat climate change. The price assigned to carbon can vary depending on the source and valuation method. In addition, carbon prices are influenced by regulatory, economic, and social factors and therefore may not always reflect current market prices. Even though carbon prices are not standardized and can fluctuate over time, they can be useful tools for portraying the economic value of carbon emissions. When assigning a value to carbon it is important not only to list the price used in the valuation but also the amount of carbon the value relates to. This will allow for comparisons of carbon valuations across different markets using different carbon prices.

2. Drew C. McLean, biological scientist; Andrew K. Koeser, assistant professor; and Deborah R. Hilbert, biological scientist, Environmental Horticulture Department, UF/IFAS Gulf Coast Research and Education Center; Shawn Landry, associate professor, USF Water Institute, University of South Florida; Amr Abd-Elranhman, associate professor; Katie Britt, geomatics program specialist, Geomatics Department, UF/IFAS Gulf Coast Research and Education Center-Plant City Campus; Mary Lusk, assistant professor, Department of Soil and Water Sciences, UF/IFAS Gulf Coast Research and Education Center; Michael G. Andreu, associate professor, School of Forest Resources and Conservation, UF/IFAS, Gainesville, FL; Robert J. Northrop; extension forester, UF/IFAS Extension Hillsborough County.

Table 1. Population, percent tree canopy cover with 95% confidence interval, and estimated acres of tree canopy with associated standard error of the 29 metropolitan and micropolitan areas in Florida, sorted from highest to lowest canopy cover.

Overview of Canopy Cover				
Metropolitan / Micropolitan Area	2019 Population[x]	Percent Canopy Cover with 95% Confidence Interval[y]	Canopy Area[z] (ac)	Canopy Area SE[w] (ac)
Crestview-Fort Walton Beach-Destin	284,809	74.4% ± 1.9%	946,304	12,771
Tallahassee	387,227	73.9% ± 1.9%	1,149,077	15,605
Jacksonville	1,559,514	67.8% ± 2.0%	1,367,161	22,678
Lake City	71,686	62.1% ± 2.1%	316,357	5,555
Gainesville	329,128	57.8% ± 2.2%	887,380	17,263
Pensacola-Ferrypass-Brent	502,629	57.2% ± 2.2%	616,384	12,012
Cape Coral-Fort Myers	770,577	56.7% ± 2.2%	279,271	5,770
Key West	74,228	56.6% ± 2.2%	350,308	7,406
Ocala	365,579	56.4% ± 2.2%	583,500	11,672
Homosassa Springs	149,657	55.3% ± 2.2%	212,249	4,380
The Villages	132,420	54.8% ± 2.2%	198,293	4,086
Naples-Marco Island	384,902	51.9% ± 2.2%	659,038	14,379
Panama City	174,705	51.5% ± 2.2%	252,326	5,542
Tampa-St. Petersburg-Clearwater	3,194,831	46.2% ± 2.2%	733,931	18,052
Orlando-Kissimmee-Sanford	2,608,147	45.5% ± 2.2%	1,046,163	26,673
Lakeland-Winter Haven	724,777	40.1% ± 2.1%	480,751	13,433
Sebastian-Vero Beach	159,923	40.0% ± 2.1%	121,779	3,418
Punta Gorda	188,910	38.6% ± 2.1%	168,267	4,841
Palm Bay-Melbourne-Titusville	601,942	37.3% ± 2.1%	236,040	6,968
North Port-Bradenton-Sarasota	836,995	35.9% ± 2.1%	296,465	8,950
Palatka	74,521	34.7% ± 2.1%	164,918	5,186
Deltona-Daytona Beach-Ormond Beach	668,365	34.0% ± 2.1%	349,023	11,093
Wauchula	26,937	33.5% ± 2.1%	133,914	4,244
Port St. Lucie	489,297	29.6% ± 2.0%	207,150	7,325

Arcadia	38,001	28.7% ± 2.0%	116,039	4,099
Clewiston	42,022	26.4% ± 1.9%	195,215	7,325
Miami-Fort Lauderdale-Pompano Beach	6,166,488	25.6% ± 1.9%	820,294	31,686
Sebring-Avon Park	106,221	25.2% ± 1.9%	166,551	6,481
Okeechobee	42,168	18.6% ± 1.7%	92,500	4,384

[z] 2019 population based on U.S. Census Bureau estimations for 2019.
[x] Canopy cover estimations based on dot-based analysis of on 2019 leaf-on aerial imagery from National Agricultural Imagery Program (NAIP; USDA, 2019).
[y] Canopy area is percent canopy cover multiplied by total acres of the metropolitan/micropolitan area.
[w] SE is an abbreviation for standard error, a measure of statistical accuracy for an estimated mean.

Table 2. Total estimated annual air pollution removal (in U.S. tons) and total estimated air pollution removal values (in USD) with associated standard error (SE) calculations for the 29 metropolitan and micropolitan areas in Florida. Air pollution removal amounts and monetary values based on county level multipliers listed in the i-Tree canopy v7.0 software.

Total Air Pollution Removal (U.S. tons)				
Metropolitan / Micropolitan Area	**Total Air Pollution Removal[2] (T)**	**Total Air Pollution Removal SE* (T)**	**Annual Value**	**Annual Value SE**
Crestview-Fort Walton Beach-Destin	49,447	667	$19,876,367	$268,241
Tallahassee	48,107	653	$18,569,840	$252,193
Jacksonville	72,238	1,198	$67,597,085	$1,121,265
Lake City	16,837	296	$3,292,058	$57,811
Gainesville	42,082	819	$11,249,273	$218,836
Pensacola-Ferrypass-Brent	33,697	657	$35,387,009	$689,590
Cape Coral-Fort Myers	12,950	268	$21,513,273	$444,485
Key West	15,502	328	$2,198,593	$46,478
Ocala	28,501	570	$16,410,528	$328,269
Homosassa Springs	9,137	189	$13,143,399	$271,220
The Villages	8,437	174	$5,445,000	$112,199
Naples-Marco Island	31,777	693	$12,965,969	$282,902
Panama City	14,364	315	$11,079,671	$243,341
Tampa-St. Petersburg-Clearwater	35,392	870	$108,067,269	$2,657,995
Orlando-Kissimmee-Sanford	46,676	1,190	$66,711,108	$1,700,894
Lakeland-Winter Haven	22,330	624	$20,695,248	$578,240
Sebastian-Vero Beach	5,052	142	$5,800,433	$162,793
Punta Gorda	8,068	232	$8,014,045	$230,570
Palm Bay-Melbourne-Titusville	11,885	351	$13,505,954	$398,698
North Port-Bradenton-Sarasota	15,239	460	$24,949,673	$753,172
Palatka	9,482	298	$3,645,056	$114,617
Deltona-Daytona Beach-Ormond Beach	16,234	516	$18,988,661	$603,524
Wauchula	6,127	194	$743,110	$23,550

Port St. Lucie	9,642	341	$13,133,556	$464,407
Arcadia	5,645	199	$866,638	$30,611
Clewiston	8,422	316	$1,019,992	$38,274
Miami-Fort Lauderdale-Pompano Beach	36,871	1,424	$77,315,778	$2,986,515
Sebring-Avon Park	7,605	296	$2,695,689	$104,897
Okeechobee	3,797	180	$760,870	$36,061
Total	**631,544**	**14,461**	**$605,641,144**	**$15,221,645**

[2]Total air pollution is sum of carbon monoxide (CO), nitrogen dioxide (NO_2), ground level ozone (O_3), particulate matter between 10 and 2.5 microns (PM_{10}), particulate matter less than 2.5 microns ($PM_{2.5}$), and sulfur dioxide (SO_2).

Table 3. Annual estimated removal rates and associated standard errors (SE) in U.S. tons of carbon monoxide (CO), nitrogen dioxide (NO_2), ground level ozone (O_3), particulate matter between 10 and 2.5 microns (PM_{10}), particulate matter less than 2.5 microns ($PM_{2.5}$), and sulfur dioxide (SO_2) for the 29 metropolitan and micropolitan areas in Florida. Removal rates based on county level multipliers listed in the i-Tree canopy v7.0 software.

Air Pollution Removal (U.S. tons)												
Metropolitan / Micropolitan Area	**CO (T)**	**CO SE (T)**	**NO_2 (T)**	**NO_2 SE (T)**	**O_3 (T)**	**O_3 SE (T)**	**PM_{10} (T)**	**PM_{10} SE (T)**	**$PM_{2.5}$ (T)**	**$PM_{2.5}$ SE (T)**	**SO_2 (T)**	**SO_2 SE (T)**
Crestview-Fort Walton Beach-Destin	856	12	2,477	33	29,770	402	12,283	166	2,291	31	1,770	24
Tallahassee	675	9	4,065	55	29,053	395	11,682	159	2,068	28	564	8
Jacksonville	791	13	6,366	106	44,824	744	16,272	270	1,596	26	2,389	40
Lake City	229	4	1,455	26	10,174	179	4,632	81	151	3	196	3
Gainesville	608	12	3,458	67	27,633	538	8,900	173	774	15	709	14
Pensacola-Ferrypass-Brent	663	13	1,624	32	19,761	385	9,207	179	1,287	25	1,155	23
Cape Coral-Fort Myers	220	5	564	12	8,840	183	2,600	54	316	7	410	8
Key West	436	9	1,612	34	9,866	209	3,280	69	308	7	1	0.1
Ocala	646	13	1,486	30	18,166	363	6,773	135	806	16	624	12
Homosassa Springs	138	3	652	13	6,138	127	1,803	37	279	6	128	3
The Villages	220	5	506	10	5,895	121	1,480	30	293	6	43	1
Naples-Marco Island	839	18	1,968	43	21,427	468	6,692	146	849	19	2	0.1
Panama City	160	4	728	16	9,951	219	2,168	48	805	18	552	12
Tampa-St. Petersburg-Clearwater	483	12	2,243	55	23,882	587	6,926	170	975	24	883	22
Orlando-Kissimmee-Sanford	1,155	29	2,668	68	32,575	831	8,521	217	1,451	37	306	8
Lakeland-Winter Haven	306	9	1,219	34	15,387	430	4,232	118	698	19	488	14
Sebastian-Vero Beach	145	4	320	9	3,436	96	905	25	186	5	58	2
Punta Gorda	113	3	355	10	5,539	159	1,587	46	217	6	257	7
Palm Bay-Melbourne-Titusville	284	8	639	19	8,688	256	1,891	56	264	8	119	4
North Port-Bradenton-Sarasota	237	7	648	20	10,168	307	3,310	100	400	12	477	14

Palatka	141	4	830	26	6,237	196	1,791	56	259	8	224	7
Deltona-Daytona Beach-Ormond Beach	381	12	948	30	11,176	355	3,013	96	515	16	202	6
Wauchula	85	3	289	9	4,277	136	1,129	36	200	6	147	5
Port St. Lucie	269	10	439	16	6,875	243	1,619	57	255	9	185	7
Arcadia	74	3	251	9	3,845	136	1,139	40	158	6	180	6
Clewiston	225	8	539	20	5,545	208	1,752	66	360	14	0.5	0.1
Miami-Fort Lauderdale-Pompano Beach	981	38	2,168	84	23,376	903	8,614	333	1,363	53	369	14
Sebring-Avon Park	107	4	351	14	5,308	207	1,440	56	228	9	171	7
Okeechobee	111	5	226	11	2,413	114	901	43	104	5	42	2
Total	**11,576**	**278**	**41,096**	**910**	**410,226**	**9,495**	**136,541**	**3,063**	**19,455**	**443**	**12,650**	**272**

Table 4. Annual estimated avoided stormwater runoff volumes in gallons and estimated values of annual avoided runoff (in USD) with associated standard error (SE) calculations for the 29 metropolitan and micropolitan areas in Florida. Avoided runoff rates and monetary values based on county level multipliers listed in the i-Tree canopy v7.0 software.

Avoided Stormwater Runoff (gallons)				
Metropolitan / Micropolitan Area	**Avoided Runoff (gal)**	**Avoided Runoff SE (gal)**	**Annual Value**	**Annual Value SE**
Crestview-Fort Walton Beach-Destin	1,781,662,371	24,044,406	$15,878,139	$214,283
Tallahassee	1,562,790,401	21,223,893	$13,927,557	$189,147
Jacksonville	4,612,091,727	76,502,935	$41,102,869	$681,793
Lake City	76,558,303	1,344,426	$682,286	$11,981
Gainesville	618,468,676	12,031,305	$5,511,780	$107,223
Pensacola-Ferrypass-Brent	2,365,755,149	46,101,687	$21,083,563	$410,857
Cape Coral-Fort Myers	3,677,903,463	75,989,008	$32,777,402	$677,213
Key West	249,237,204	5,268,886	$2,221,197	$46,956
Ocala	1,290,632,073	25,817,272	$11,502,087	$230,083
Homosassa Springs	745,808,766	15,390,079	$6,646,633	$137,156
The Villages	351,263,494	7,238,107	$3,130,453	$64,506
Naples-Marco Island	1,387,538,412	30,274,477	$12,365,715	$269,806
Panama City	699,781,063	15,369,159	$6,236,435	$136,970
Tampa-St. Petersburg-Clearwater	6,283,890,090	154,556,937	$56,001,903	$1,377,408
Orlando-Kissimmee-Sanford	5,979,910,594	152,466,290	$53,292,844	$1,358,777
Lakeland-Winter Haven	1,656,706,879	46,289,537	$14,764,539	$412,531
Sebastian-Vero Beach	446,771,488	12,538,920	$3,981,619	$111,747
Punta Gorda	791,610,291	22,775,189	$7,054,815	$202,972
Palm Bay-Melbourne-Titusville	1,848,459,929	54,566,818	$16,473,438	$486,298
North Port-Bradenton-Sarasota	1,754,871,592	52,975,445	$15,639,381	$472,116
Palatka	205,138,758	6,450,474	$1,828,193	$57,486
Deltona-Daytona Beach-Ormond Beach	1,113,230,764	35,382,234	$9,921,090	$315,326
Wauchula	64,814,450	2,054,047	$577,625	$18,306
Port St. Lucie	975,534,147	34,495,185	$8,693,941	$307,420

Arcadia	80,874,822	2,856,611	$720,755	$25,458
Clewiston	105,822,330	3,970,849	$943,086	$35,388
Miami-Fort Lauderdale-Pompano Beach	9,655,586,366	372,971,087	$86,050,393	$3,323,911
Sebring-Avon Park	228,933,869	8,908,484	$2,040,254	$79,392
Okeechobee	53,723,799	2,546,181	$478,785	$22,692
Total	**50,665,371,271**	**1,322,399,929**	**$451,528,775**	**$11,785,202**

Table 5. Annual estimated carbon dioxide equivalent (CO_2e) sequestration amounts in US tons and annual estimated value of carbon dioxide equivalent (CO_2e) sequestration (in USD) with associated standard error (SE) calculations for the 29 metropolitan and micropolitan areas in Florida.

Carbon Sequestration (U.S. tons)				
Metropolitan / Micropolitan Area	**Sequestered CO_2e^z (T)**	**Sequestered CO_2e^z SE (T)**	**Annual Value^y**	**Annual Value^x SE**
Crestview Fort Walton Beach-Destin	4,736,249	63,918	$220,282,941	$2,972,826
Tallahassee	5,751,129	78,105	$267,485,026	$3,632,652
Jacksonville	6,842,643	113,502	$318,251,323	$5,278,984
Lake City	1,583,365	27,805	$73,642,301	$1,293,218
Gainesville	4,441,339	86,399	$206,566,683	$4,018,420
Pensacola-Ferrypass-Brent	3,085,001	60,118	$143,483,402	$2,796,074
Cape Coral-Fort Myers	1,397,753	28,879	$65,009,503	$1,343,159
Key West	1,753,292	37,065	$81,545,612	$1,723,878
Ocala	2,920,418	58,419	$135,828,628	$2,717,060
Homosassa Springs	1,062,306	21,921	$49,407,846	$1,019,552
The Villages	992,455	20,450	$46,159,064	$951,150
Naples-Marco Island	3,298,485	71,969	$153,412,525	$3,347,283
Panama City	1,262,892	27,737	$58,737,117	$1,290,032
Tampa-St. Petersburg-Clearwater	3,673,326	90,348	$170,846,390	$4,202,094
Orlando-Kissimmee-Sanford	5,236,047	133,500	$243,528,533	$6,209,105
Lakeland-Winter Haven	2,406,159	67,230	$111,910,476	$3,126,856
Sebastian-Vero Beach	609,502	17,106	$28,347,927	$795,602
Punta Gorda	842,178	24,230	$39,169,698	$1,126,940
Palm Bay-Melbourne-Titusville	1,181,382	34,875	$54,946,063	$1,622,016
North Port-Bradenton-Sarasota	1,483,808	44,793	$69,011,894	$2,083,307
Palatka	825,417	25,955	$38,390,137	$1,207,156
Deltona-Daytona Beach-Ormond Beach	1,746,862	55,521	$81,246,534	$2,582,289
Wauchula	670,240	21,241	$31,172,878	$987,906
Port St. Lucie	1,036,784	36,661	$48,220,832	$1,705,103

Arcadia	580,777	20,514	$27,011,948	$954,100
Clewiston	977,053	36,663	$45,442,724	$1,705,181
Miami-Fort Lauderdale-Pompano Beach	4,105,573	158,588	$190,950,211	$7,375,928
Sebring-Avon Park	833,586	32,437	$38,770,086	$1,508,657
Okeechobee	462,961	21,942	$21,532,305	$1,020,500
Total	**65,798,981**	**1,517,889**	**$3,060,310,607**	**$70,597,028**

[z]CO_2e sequestration rate was 5.005 T/ac. Based on United States level rate listed in i-Tree canopy v7.0 software.
[y]CO_2e sequestration was valued at $46.51/T. Based on United States level value listed in i-Tree canopy v7.0 software.
[x]SE is an abbreviation for standard error, a measure of statistical accuracy for an estimated mean.

Table 6. Estimated carbon dioxide equivalent (CO_2e) storage amounts in US tons and estimated value of carbon dioxide equivalents (CO_2e) storage (in USD) with associated standard error (SE) calculations for the 29 metropolitan and micropolitan areas in Florida.

Carbon Storage (U.S. tons)				
Metropolitan / Micropolitan Area	**CO_2e Storage[z] (T)**	**CO_2e Storage SE[y] (T)**	**CO_2e Storage Value[z]**	**CO_2e Storage Value SE[y]**
Crestview-Fort Walton Beach-Destin	118,947,511	1,605,255	$5,532,248,717	$138,266,145
Tallahassee	144,435,506	1,961,545	$6,717,695,366	$168,954,640
Jacksonville	171,848,090	2,850,525	$7,992,654,654	$245,525,566
Lake City	39,765,078	698,307	$1,849,473,796	$60,147,587
Gainesville	111,541,060	2,169,850	$5,187,774,704	$186,896,707
Pensacola-Ferrypass-Brent	77,477,600	1,509,813	$3,603,483,163	$130,045,410
Cape Coral-Fort Myers	35,103,574	725,273	$1,632,667,224	$62,470,306
Key West	44,032,677	930,853	$2,047,959,797	$80,177,568
Ocala	73,344,205	1,467,147	$3,411,238,966	$126,370,455
Homosassa Springs	26,679,053	550,534	$1,240,842,767	$47,419,355
The Villages	24,924,789	513,598	$1,159,251,914	$44,237,983
Naples-Marco Island	82,839,088	1,807,453	$3,852,845,981	$155,682,140
Panama City	31,716,636	696,586	$1,475,140,730	$59,999,395
Tampa-St. Petersburg-Clearwater	92,252,958	2,269,030	$4,290,685,057	$195,439,376
Orlando-Kissimmee-Sanford	131,499,573	3,352,768	$6,116,045,162	$288,785,468
Lakeland-Winter Haven	60,428,976	1,688,427	$2,810,551,659	$145,430,081
Sebastian-Vero Beach	15,307,201	429,606	$711,937,935	$37,003,459
Punta Gorda	21,150,699	608,521	$983,718,994	$52,413,978
Palm Bay-Melbourne-Titusville	29,669,558	875,850	$1,379,931,134	$75,439,971
North Port-Bradenton-Sarasota	37,264,769	1,124,936	$1,733,184,422	$96,894,596
Palatka	20,729,754	651,836	$964,140,861	$56,144,845
Deltona-Daytona Beach-Ormond Beach	43,871,182	1,394,374	$2,040,448,675	$120,102,274
Wauchula	16,832,607	533,445	$782,884,568	$45,947,498
Port St. Lucie	26,038,094	920,715	$1,211,031,741	$79,304,355

Arcadia	14,585,805	515,191	$678,385,784	$44,375,168
Clewiston	24,537,982	920,757	$1,141,261,557	$79,307,959
Miami-Fort Lauderdale-Pompano Beach	103,108,539	3,982,824	$4,795,578,148	$343,054,401
Sebring-Avon Park	20,934,918	814,639	$973,683,022	$70,167,636
Okeechobee	11,626,929	551,046	$540,768,464	$47,463,462
Total	**1,652,494,409**	**38,120,704**	**$76,857,514,962**	**$3,283,467,783**

[z]CO_2e storage rate was 125.697 T/ac. Based on United States level rate listed in i-Tree canopy v7.0 software.
[y]SE is an abbreviation for standard error, a measure of statistical accuracy for an estimated mean.
[x]CO_2e storage was valued at $46.51/T. Based on United States level value listed in i-Tree canopy v7.0 software.

Table 7. Estimated value of total annual benefits (air pollution removal, avoided stormwater runoff, and carbon dioxide equivalent (CO_2e) sequestration; in USD) and associated standard error (SE) calculations for the 29 metropolitan and micropolitan areas in Florida. Monetary values based on county level values listed in the i-Tree canopy v7.0 software.

Total Annual Benefits								
Metropolitan / Micropolitan Area	Air Pollution	Air Pollution SE	Avoided Runoff	Avoided Runoff SE	CO_2e Sequestered[z]	CO_2e Sequestered SE[y]	Total Benefits[x]	Total Benefits SE[y]
Crestview-Fort Walton Beach-Destin	$19,876,367	$268,241	$15,878,139	$214,283	$220,282,941	$2,972,826	$256,037,447	$3,455,351
Tallahassee	$18,569,840	$252,193	$13,927,557	$189,147	$267,485,026	$3,632,652	$299,982,422	$4,073,991
Jacksonville	$67,597,085	$1,121,265	$41,102,869	$681,793	$318,251,323	$5,278,984	$426,951,277	$7,082,042
Lake City	$3,292,058	$57,811	$682,286	$11,981	$73,642,301	$1,293,218	$77,616,645	$1,363,011
Gainesville	$11,249,273	$218,836	$5,511,780	$107,223	$206,566,683	$4,018,420	$223,327,737	$4,344,479
Pensacola-Ferrypass-Brent	$35,387,009	$689,590	$21,083,563	$410,857	$143,483,402	$2,796,074	$199,953,974	$3,896,521
Cape Coral-Fort Myers	$21,513,273	$444,485	$32,777,402	$677,213	$65,009,503	$1,343,159	$119,300,178	$2,464,856
Key West	$2,198,593	$46,478	$2,221,197	$46,956	$81,545,612	$1,723,878	$85,965,402	$1,817,313
Ocala	$16,410,528	$328,269	$11,502,087	$230,083	$135,828,628	$2,717,060	$163,741,243	$3,275,412
Homosassa Springs	$13,143,399	$271,220	$6,646,633	$137,156	$49,407,846	$1,019,552	$69,197,878	$1,427,927
The Villages	$5,445,000	$112,199	$3,130,453	$64,506	$46,159,064	$951,150	$54,734,517	$1,127,855
Naples-Marco Island	$12,965,969	$282,902	$12,365,715	$269,806	$153,412,525	$3,347,283	$178,744,208	$3,899,991
Panama City	$11,079,671	$243,341	$6,236,435	$136,970	$58,737,117	$1,290,032	$76,053,222	$1,670,342
Tampa-St. Petersburg-Clearwater	$108,067,269	$2,657,995	$56,001,903	$1,377,408	$170,846,390	$4,202,094	$334,915,562	$8,237,497
Orlando-Kissimmee-Sanford	$66,711,108	$1,700,894	$53,292,844	$1,358,777	$243,528,533	$6,209,105	$363,532,485	$9,268,776
Lakeland-Winter Haven	$20,695,248	$578,240	$14,764,539	$412,531	$111,910,476	$3,126,856	$147,370,263	$4,117,627
Sebastian-Vero Beach	$5,800,433	$162,793	$3,981,619	$111,747	$28,347,927	$795,602	$38,129,978	$1,070,142
Punta Gorda	$8,014,045	$230,570	$7,054,815	$202,972	$39,169,698	$1,126,940	$54,238,558	$1,560,482

Palm Bay-Melbourne-Titusville	$13,505,954	$398,698	$16,473,438	$486,298	$54,946,063	$1,622,016	$84,925,455	$2,507,012
North Port-Bradenton-Sarasota	$24,949,673	$753,172	$15,639,381	$472,116	$69,011,894	$2,083,307	$109,600,947	$3,308,595
Palatka	$3,645,056	$114,617	$1,828,193	$57,486	$38,390,137	$1,207,156	$43,863,385	$1,379,260
Deltona-Daytona Beach-Ormond Beach	$18,988,661	$603,524	$9,921,090	$315,326	$81,246,534	$2,582,289	$110,156,285	$3,501,139
Wauchula	$743,110	$23,550	$577,625	$18,306	$31,172,878	$987,906	$32,493,613	$1,029,761
Port St. Lucie	$13,133,556	$464,407	$8,693,941	$307,420	$48,220,832	$1,705,103	$70,048,328	$2,476,930
Arcadia	$866,638	$30,611	$720,755	$25,458	$27,011,948	$954,100	$28,599,341	$1,010,168
Clewiston	$1,019,992	$38,274	$943,086	$35,388	$45,442,724	$1,705,181	$47,405,803	$1,778,843
Miami-Fort Lauderdale-Pompano Beach	$77,315,778	$2,986,515	$86,050,393	$3,323,911	$190,950,211	$7,375,928	$354,316,381	$13,686,353
Sebring-Avon Park	$2,695,689	$104,897	$2,040,254	$79,392	$38,770,086	$1,508,657	$43,506,029	$1,692,946
Okeechobee	$760,870	$36,061	$478,785	$22,692	$21,532,305	$1,020,500	$22,771,961	$1,079,252
Total	**$605,641,144**	**$15,221,645**	**$451,528,775**	**$11,785,202**	**$3,060,310,607**	**$70,597,028**	**$4,117,480,527**	**$97,603,875**

[z]CO_2e sequestration was valued at $46.51/T. Based on United States level value listed in i-Tree canopy v7.0 software.

[y]SE is an abbreviation for standard error, a measure of statistical accuracy for an estimated mean.

[x]Total Benefits = the sum of air pollution, avoided stormwater runoff, and CO_2 equivalent sequestration benefit values.

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From: **Stephanie Jofe** shrinkmom@kidbones.com
Subject: Stormwater Runoff and the Urban Tree Canopy
Date: November 11, 2020 at 11:22 AM
To: Lewellen, Lori llewellen@daniabeachfl.gov, tarnarajames@daniabeachfl.gov, Odman, Lauren lodman@daniabeachfl.gov, Bill bharris@daniabeachfl.gov, cbrandimarte@daniabeachfl.gov, msalvino@ci.dania-beach.fl.us, info@davisfordaniabeach.com, Eleanor Norena - City of Dania Beach (enorena@daniabeachfl.gov) enorena@daniabeachfl.gov, Lajoie, Corinne clajoie@daniabeachfl.gov, rlorber@daniabeachfl.gov, Ansbro, Tom tansbro@daniabeachfl.gov, Boutsis, Eve A. eboutsis@daniabeachfl.gov

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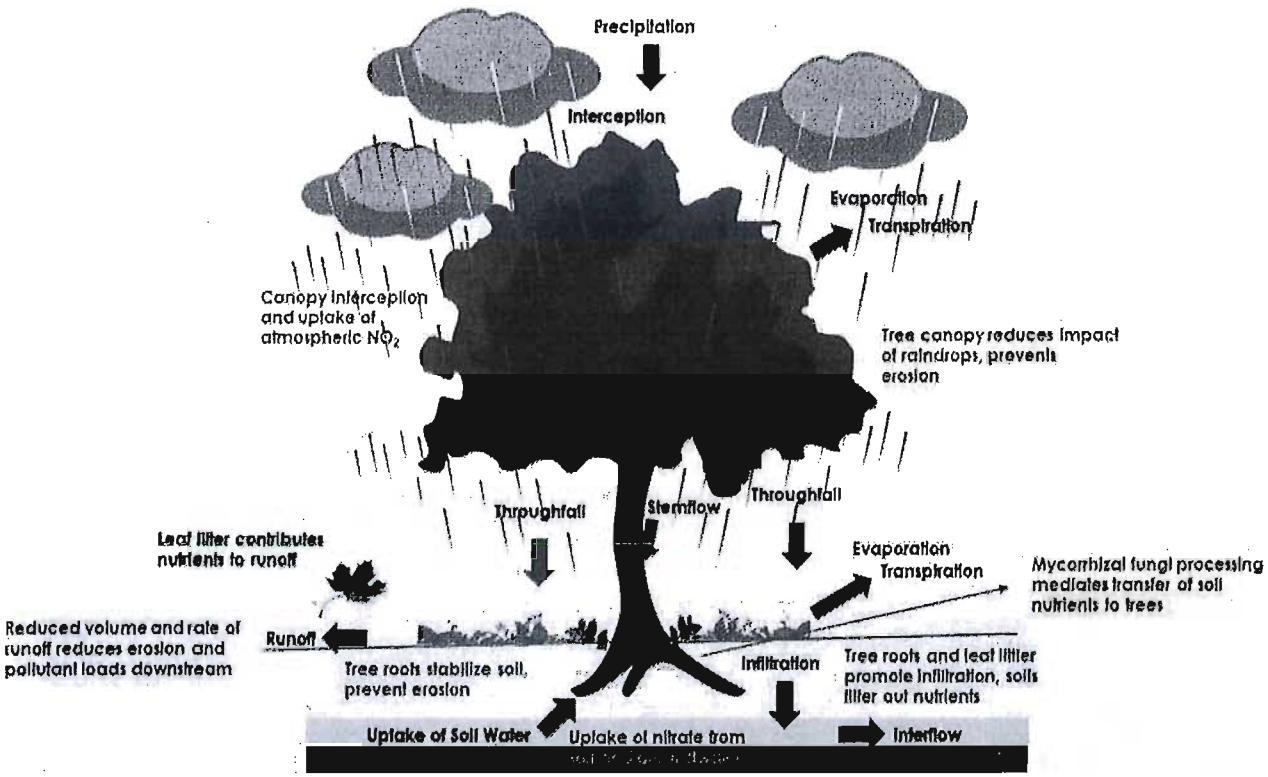
Hi Commissioners and Department Directors,

Those opposed to the Zoning Overlay Ordinance have made the claim that trees and the tree canopy do not help with stormwater runoff. There is voluminous literature which contradicts this claim and there are government entities that are actually trying to place a value on the cost savings in this area attributable to maintaining the urban tree canopy. These articles also discuss the importance of trees in filtering pollutants from the stormwater runoff, which should be an very important consideration for those concerned with the health and safety of their young children. Below is a diagram from one of the articles depicting how this process works, followed by an excerpt from the second reference below. They are followed by a list of some relevant literature. I can provide references to many more articles upon request.

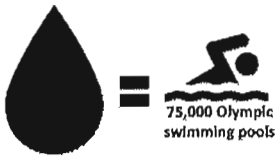


Stormwater Runoff

Stormwater runoff is the rainwater that flows over the ground after a rain event. Impervious surfaces such as roads, parking lots, and rooftops do not allow water to infiltrate into the soil. Instead, these impervious surfaces swiftly direct large volumes of water into nearby stormwater drains typically ending up in neighboring waterbodies. In urban areas with increased impervious surfaces, stormwater runoff can be a significant source of pollution to local waterbodies. As water flows over impervious surfaces it can pick up many different pollutants (e.g., antifreeze, grease, pesticides, bacteria, etc.) that are present on these paved surfaces.

Trees help combat the negative effects of stormwater runoff by capturing rainfall on their leaves and bark, thereby` reducing the amount of water hitting impervious surfaces. In addition, tree roots and old fallen leaves can promote soil conditions that allow more water

to enter the soil during a rain event. Collectively, the urban forests in the 29 metropolitan and micropolitan areas intercept an estimated 50 billion gallons of water a year, resulting in savings of over $451 million in avoided annual stormwater treatment costs (Table 4.) To put this volume of water in context, that is enough to fill approximately 75,000 Olympic-sized swimming pools each year (Figure 6).



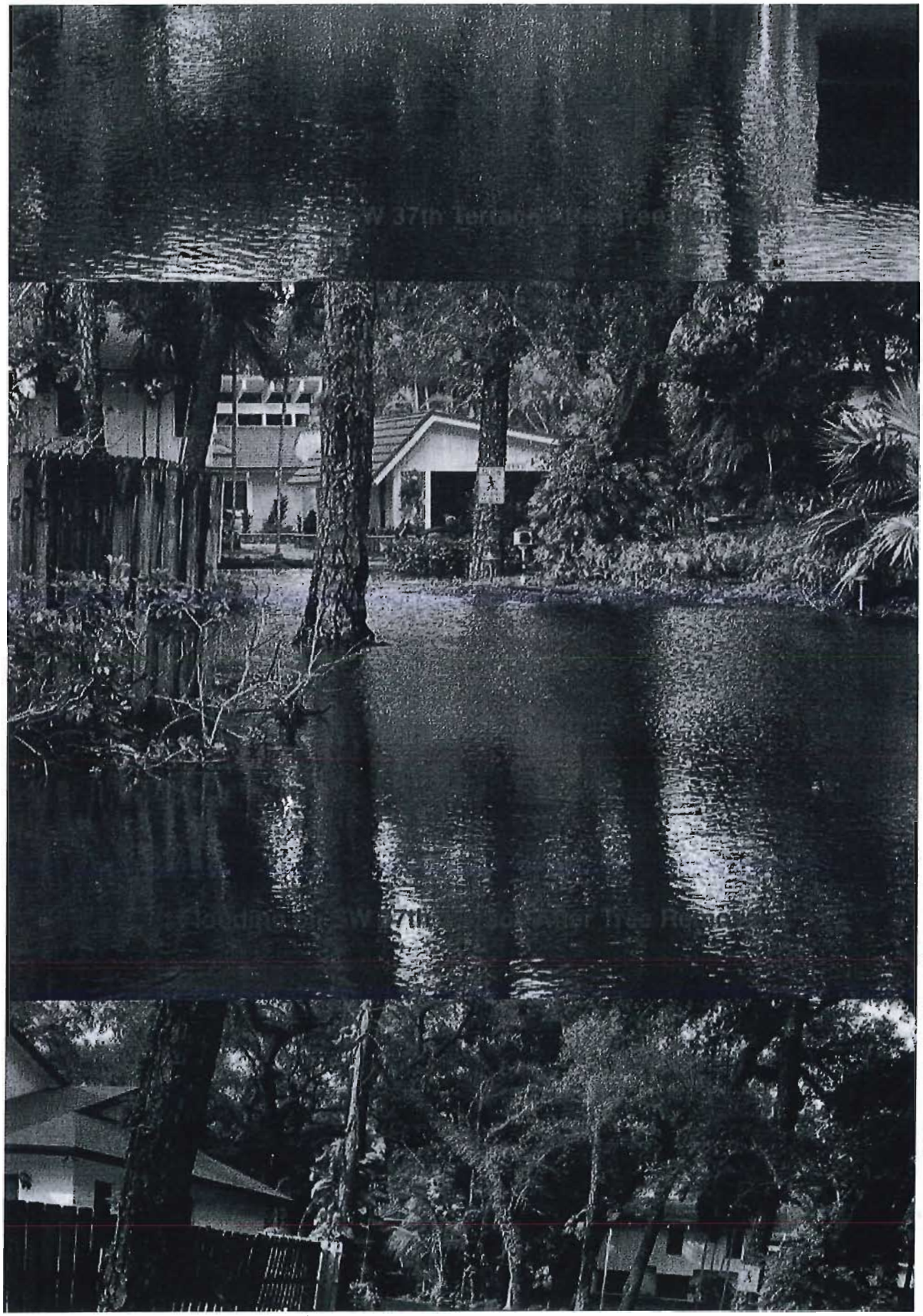
trees control stormw...lity.pdf

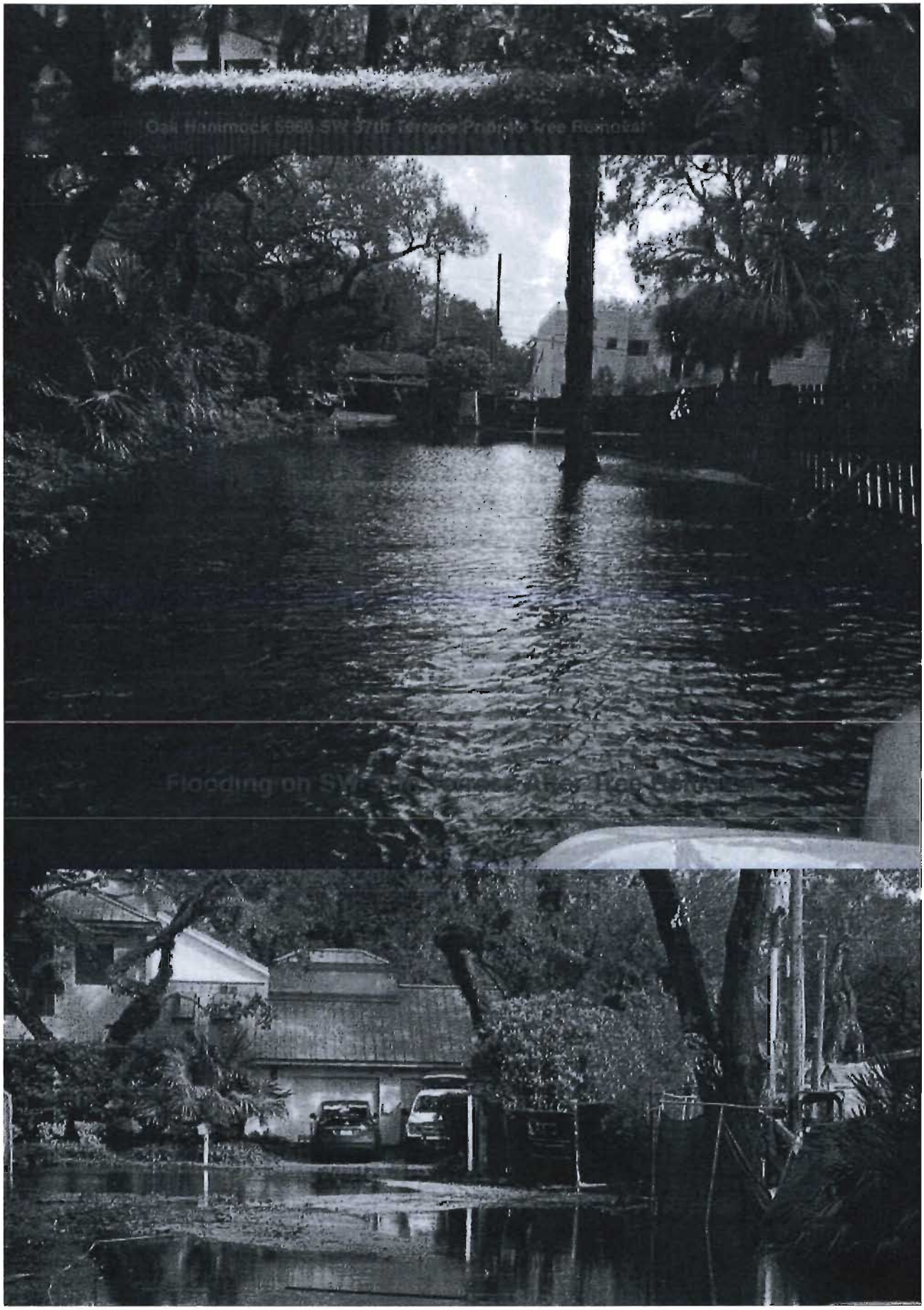
Benefits of Trees i...al.docx

https://www.cwp.org/reducing-stormwater-runoff/ https://www.epa.gov/soakuptherain/soak-rain-trees-help-reduce-runoff

These are photos taken on our street before many large trees, primarily oaks, were removed from 5960 and 5950 SW 37th Terrace. Each before photo is followed by an after photo of the flooding that now occurs since these trees have been removed. Granted, we have had more rain than usual recently, but in my 32 years here, (and we have been through many hurricanes, including Andrew and Wilma, and many heavy tropical storms), the flooding was never like this prior to the trees being removed.

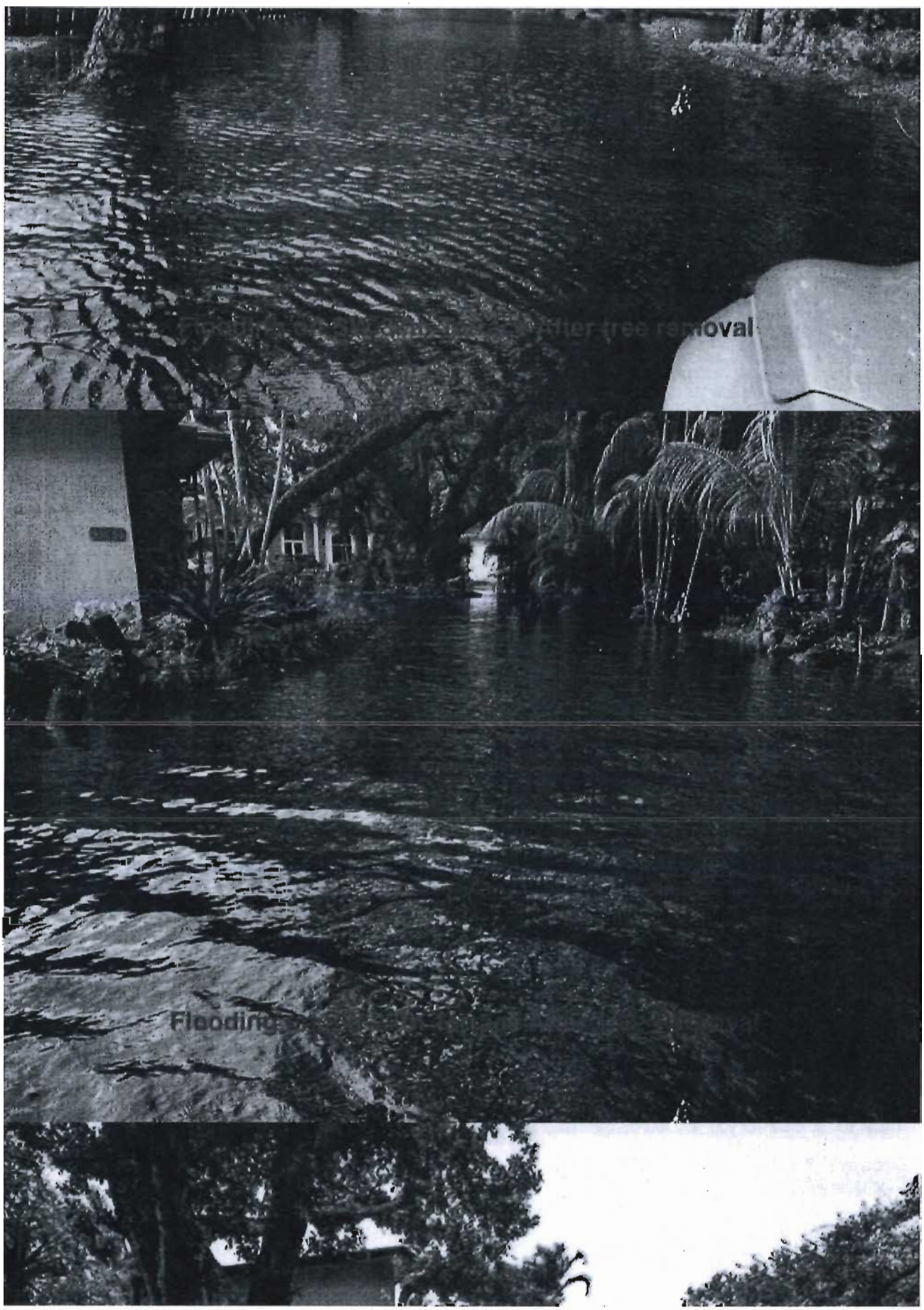
Therefore, it is imperative for the city to do whatever it can to stop and mitigate tree removal in the Harger Hills Oak Hammock. Passing the Zoning Overlay Ordinance would be one large step in this direction.




Oak Hammock 5980 SW 37th Terrace Priority Tree Removal
Flooding on SW 37th Terrace Priority Tree Removal

Thank you so much for your attention to this matter and all your efforts to protect our oak hammock.

Sincerely,
Stephanie Jofe


After tree removal
Flooding

FOR184

UF UNIVERSITY of FLORIDA
IFAS Extension

Urban Forests in Florida: Trees Control Stormwater Runoff and Improve Water Quality[1]

Jennifer Seitz and Francisco Escobedo[2]

Along with human actions, the trees, vegetation, pervious soils, and human structures that make up an urban forest influence several hydrological functions in ways that can affect the quality of life of people living in the urban forest. An area of particular concern is the loss of natural forests and tree cover in and around urban areas due to development. This loss can result in increased stormwater runoff and decreased water quality. Neighborhoods with fewer trees have the potential for increased stormwater, pollutants, and chemicals flowing into their water supply and systems, resulting in health risks, flood damage, and increased taxpayers' dollars to treat the water. Communities can lessen the effect of these damages by maintaining or increasing the numbers of trees in their communities and by minimizing roads and other impervious surfaces. In this fact sheet we will show how individual trees and urban forest cover assist in maintaining our watershed health, improve water and soil quality, and lower maintenance and construction costs of water storage and treatment systems.

How do Trees Affect the Water Cycle?

Trees are part of the water cycle, as illustrated in Figure 1. A tree's leaves and branches create a tree crown. The crowns of many trees together make up an urban forest's canopy. When it rains, most of the raindrops hit a leaf or branch surface and remain there a while in "temporary storage" before they are released by evaporation into the atmosphere or by drops falling to the ground.

The brief retention of rainwater by the tree canopy is called rainfall interception. Studies of rainfall interception indicate that interception rates are primarily dependent on the type and amount of leaves. Studies have shown that a mature deciduous tree (deciduous trees, such as sweetgums, lose leaves during the winter) can intercept 500–700 gallons of water per year. Mature evergreen trees (evergreens, such as magnolias or pines, retain their leaves year round) can intercept more than 4,000 gallons per year (Cappiella and others 2005). Rainfall interception also varies based on tree density, the types of plants growing under the tree canopy, and climate (the

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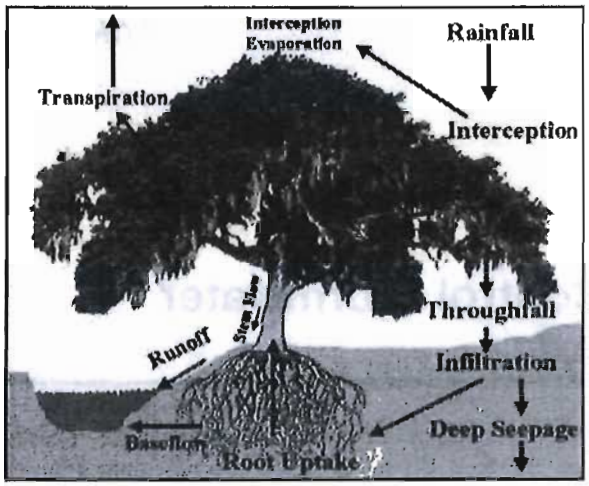

Figure 1. Urban trees are a key link in the cycle of water between the atmosphere and urban areas. From: Korhnak. 2000.

climate in an urban area is partly determined by the way the land in that area is used). For example, Table 1 <link to Table 1> shows that suburban and rural areas can intercept more rainfall than urban areas in central California. Although the vegetation and climates differ between Florida and California, Table 1 also shows the amount of rainfall that a Florida pine flatwood forest can intercept. The time of year that rain falls is also important (rainfall in winter, when deciduous trees lose their leaves results in less interception).

after a rain storm. It flows over the surface towards natural waterways and/or constructed stormwater systems. By intercepting some of the rain, tree cover can reduce the amount of money needed to construct stormwater management systems, thereby saving a community's funds. In Santa Monica, CA, rainfall interception was measured for 29,229 street and park trees. Researchers found that the trees intercepted 1.6% of total precipitation over a year, providing an estimated value of $110,890 ($3.80 per tree) saved on avoided stormwater treatment and flood control costs associated with runoff (Xiao and McPherson 2003).

Water that is stored on tree canopy surfaces may either be returned to the air by evaporation or transmitted to the ground via the leaves and bark for root absorption. The tree uses some of the absorbed rainfall and eventually releases the unused portion back into the atmosphere through a process called transpiration. Florida researchers found that substantial amounts of rainfall are transpired by a Florida pine forest (Riekerk and others 1995).

Water in the canopy that is not evaporated or absorbed will drip down to the ground as the canopy fills with water. Rainfall flowing from the trunk (stemflow) reduces the impact of the raindrops and

Table 1. Comparison of annual rainfall interception by tree cover in urban lands in Sacramento County, California and a natural forest in Alachua County, Florida.

Type of land	Annual rainfall (mm)	Rainfall intercepted (%)
Urban Lands Sacramento County, CA[1]		
City	393.2	6
County	414.1	11
Suburban	433.2	13
Rural	415.5	13
Natural Forest Alachua County, FL[2]		
Pine Flatwoods	1040-1238	18

From: [1]Xiao, Q.F., E.G. McPherson, J.R. Simpson, and S.L. Ustin. 1998; [2]Riekerk, H., H. L. Gholz, D. G. Neary, L. V. Korhnak, and S. G. Liu. 1995.

Individual trees intercept only a small percentage of the total rain, and, as a result, are not as effective at reducing and slowing the delivery of stormwater as is an urban forest cover. Stormwater is the rainfall that accumulates on the ground during and immediately

prevents some of the ground and soil displacement that causes erosion. The leaf litter underneath the tree serves as a sponge for the water. Trees can also absorb water in the soil by root uptake. Together, the roots and leaf litter stabilize soil and reduce erosion.

Without leaf litter, the tree canopy does not prevent soil erosion. Foot and vehicle traffic, roads, and removal of tree cover can result in soil becoming compacted, which reduces the infiltration or downward movement of water from the surface into the soil. Reduced infiltration causes more rainfall to run off, increasing stormwater volume and the potential for flooding.

How Can Urban Forests Reduce Stormwater?

Since the amount of impervious surfaces (e.g., parking lots, roof tops, driveways, roads) is increasing in many communities, rainwater cannot infiltrate and runs off as stormwater. The community's urban forest cover, or the sum of all trees, vegetation and pervious soils and their ability to intercept, evapotranspire, infiltrate, and store rainfall, affects watershed hydrology, particularly storm flow and baseflow (e.g. dry-weather water flow). EDIS fact sheet FOR95 – Chapter 6: "Restoring the Hydrological Cycle in the Urban Forest Ecosystem," provides additional information on urban hydrology. Maintaining existing urban forests and planting trees and vegetation in strategic places will increase the opportunity for stormwater to be absorbed into the ground which will help clean the water of pollutants before it eventually flows into drainage systems and the water supply. The purpose of drainage systems in urban areas is to move stormwater quickly away from homes and businesses to reduce the risk of flooding. Urban forests can reduce the load on drainage systems. For example, urban forest cover in Dayton, Ohio reduced runoff from a storm by 7% (Sanders 1986) and heavily forested areas near Baltimore, Maryland reduced total runoff by as much as 26% (Neville 1996). Tree canopy over soil or vegetation is much more effective at reducing runoff than tree cover over impervious surfaces.

How Can Trees Reduce Pollutants?

Research has found that water quality is strongly related to runoff (Xiao and others 1998). Stormwater flows into the community's stormwater system and ends up in a stormwater treatment/management system or flows directly into a water body. Before reaching a stormwater system or water way, stormwater picks up and transports heavy metals, fertilizers, bacteria, pesticides, trash, and other harmful substances from roadways, sidewalks, yards, and homes. Urban forests can reduce stormwater, as well as act as a sponge for rainfall and shelter to the soil. Tree roots, leaf litter, and vegetation can remove pollutants, sediment, and nutrients from the stormwater, lessening the amount of harmful substances reaching our ground or surface waters. Most pollutants absorbed by plants are transformed into non-harmful forms. Finally, tree canopy over streams and wetlands can reduce water temperatures, thereby increasing dissolved oxygen and reducing the formation of nuisance algae.

Summary

Trees and vegetation are valuable parts of our urban ecosystem for the numerous benefits they provide to communities. Proper management of the urban forest will reduce stormwater runoff and improve water quality. The following practices can help achieve this:

- Maximize the amount of growing space and understory vegetation around a tree.
- Preserve established trees and minimize soil compaction, displacement, and erosion around a tree.
- Minimize clearing of trees and vegetation to preserve their benefits and minimize soil compaction.
- Do not over fertilize or over irrigate your trees or lawns.
- Route excess stormwater to bioretention areas made of a vegetated buffer and a soil bed to filter pollutants, store water, and prevent erosion.
- Include tree and vegetative strips in parking lots to collect, store, and treat the runoff.
- Maintain and increase the amount and width of urban forest buffers around urban streams, lakes, and wetlands.

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From: **Lajole, Corinne** clajole@daniabeachfl.gov
Subject: FW: Zoning Overlay Q&A
Date: November 12, 2020 at 12:32 PM
To: Jessica Kutoff jkutoff@gmail.com, Stephanie Jofe shrinkmom@kidbones.com, Harvery Sepler hsepler@aol.com, Harrison - Prime Petals harrison@primepetals.com, Sarah Gonen mantra613@gmail.com, Gabi Hirschman slpgabi@gmail.com, Kurt Larsen larsenkurtc@gmail.com, Audra Mittleman audramitt@gmail.com, CIndy Riizzo rizzo954@gmail.com, michelle Nadel michelledhammer@hotmail.com, Rabbi Laredo rabbilaredo@gmail.com, Sean@rittermans.com
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CL

Good afternoon. In advance of this evenings virtual meeting, below are some common questions regarding the proposed Tree Protection Overlay Ordinance and answers to those questions. It is our intent that the information provided below is helpful to the public in understanding how the proposal would affect them if the City Commission approves of such changes.
As always, if you have any questions or concerns please feel free to contact me.

1. **Q) <u>Will I still be able to remove dangerous trees or limbs?</u>**

1. The only changes to the existing City code, under this overlay, which have specific bearing on the question are;
   a. The requirement that the trimming or removal company has an arborist on-site for the activity [826-40(G)], and

   b. That the City be provided 48 hours advance notification of such trimming activities [826-40(H)]

2. **<u>Q) Will the minimum landscape standards be onerous?</u>**

1. No. The actual requirement is not believed to be overly burdensome: Under the current code, minimum landscape standards for single family properties require a total of three Category 1B (12' tall) shade trees. Under the proposed Ordinance in 826-40 minimum landscape standards only require:
   a. 6 Category 1A trees (which are 16' tall), **or**
   b. a combined minimum caliper of all your trees of 40" (that could even be one large tree that is already on your property), **or**
   c. 50% canopy coverage.

   Most residents in the proposed overlay district already satisfy one or more of these requirements and therefore meet the standards.

3. **<u>Q) If I don't make any changes to my property, but don't meet the minimum landscape standards now, will I be "grandfathered in"</u>**

1. A) Yes. While the minimum landscape standards were set to be consistent with existing tree coverage throughout the overlay area as a whole, "Any property that does not meet the tree coverage criteria contained in that Section (826-40) at the time of the ordinance adoption may submit documentation of the preexisting deficiency to preclude assessment of overlay mitigation requirements." This grandfathering applies to properties that <u>legally</u> do not meet minimum landscape standards

4. **<u>Q) If it's my property; why can't I do whatever I want on it?</u>**

1. Incorporated municipalities (like Dania Beach) have a City code which establishes

various standards, rules, and requirements for the collective benefit of residents and businesses, but all residents and businesses must also abide by this same code. Dania Beach's City code contains a tree preservation ordinance (Article 825) because the benefits of tree canopy have been proven, and it has been deemed by City elected officials that management of these benefits are better coordinated and managed at a City level, not on a property by property basis.

Recent destruction of valuable tree resources in the Harger Hills neighborhood has revealed several ways in which Article 825 of the City's existing code does not adequately protect the higher quality native tree hammock community that remains in this neighborhood. This new overlay area ordinance (Article 826) provides additional protections to guard against future similar destruction and help protect the integrity of, and benefits provided by the unique natural vegetation in this area (826-20).

5. **Q) Will I be able to fix a broken pipe?**

1. Yes. While Section 826-40 clearly indicates the ordinance applies to this exact type of property maintenance activity, non-emergency minor repairs that affect less than 30% of the root zone would not be affected by this ordinance. In addition, "Generally accepted emergency/time sensitive procedures necessary for the protection of life, health, safety or property" are excepted from these regulations. (820.60 A)

   However, the ordinance is intended to discourage poorly planned, haphazard site work which might accidentally result in tree abuse or unnecessary destruction of healthy, mature trees by failing to consider tree-sensitive construction alternatives. See 826-50 Many contractors are unaware of such alternatives but can easily accommodate minor project modifications to better ensure survival, longevity, and most importantly safety, of protected trees. See 826-50.

6. **Q) Will I be able to repave my driveway?**

1. Like question 5 above, Yes.

   While Section 826-40 clearly indicates the ordinance applies to this exact type of property maintenance activity, the intent is only to discourage poorly planned, haphazard site work which might accidentally result in tree abuse or unnecessary destruction of healthy, mature trees by failing to consider tree-sensitive construction alternatives. See 826-50.

7. **Q) Why do I have to try to avoid impacting or abusing the tree canopy and critical root zones roots if I want to develop, redevelop or do exterior site improvements or add structures to my property?**

1. Safety. Improperly protected and unnecessarily damaged trees become a real and proven danger to persons and structures when the damage reduces root integrity, opens wounds which allow disease, or results in weak regrowth which can't withstand storms.

   This ordinance simply requires a developer or resident to work with the city to avoid unnecessary tree damage. It doesn't prohibit site improvements, as long as you work with the City to "the maximum extent feasible" to prevent unnecessary tree damage and ensure minimum landscape standards are maintained..

8. **Q) Why do I have to pay for a certified arborist to trim the trees and observe that it's done correctly, and why do I have to give the city 48 hours notice?**

1. The City's code already requires that a qualified and licensed professional remove trees or limbs larger than 6" diameter. The tree trimming and removal companies in Broward County are required to have arborists on staff in order to guarantee their business licenses. All this ordinance requires is for one of the company's arborists to be present during the trimming/removal event to ensure quality of work, and accountability. Un-supervised tree trimmers make mistakes which affect the integrity of the trees leaving them vulnerable to disease and making them dangerous during storms. Improper trimming is often the root cause (pun intended) of a healthy tree becoming a hazardous tree.

   The 48 hour notice is required mostly for protection for the property owner. This gives the City time to arrange for a City arborist (at the City's expense) to come out and ensure that the trimming is being done properly, and to document pre-existing conditions in case the trimmer does poor work.

My name is Stephanie Jofe. I live at 5880 SW 37th Terrace in Dania Beach. I am writing to you to express my support for the Zoning Overlay Ordinance TX-065-20. The City Commissioners requested this ordinance be written in order to protect the last remaining oak hammock in Dania Beach.

I have lived in my home in Dania Beach in this beautiful oak hammock, for 32 years. My husband and I raised our children here and we are very involved in our community. My husband is Surgeon-in-Chief at Joe DiMaggio Children's Hospital. I am a retired physician and full-time community volunteer. I tutor underserved children in our community for four hours every day, I volunteer with \and spend the rest of my time working on environmental initiatives in my role as the Social Action Chair of my synagogue. We chose to live in this neighborhood of Dania Beach because we wanted to live among the magnificent old oaks that canopy our streets and our properties. Aside from making our streets lovely, these trees create a sense of community, add to our property values, lessen flooding, absorb sound and light pollution from Stirling Rd. and the Hard Rock Hotel Complex, shade and cool our streets and homes, and mitigate climate change.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, we and the City Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board to maintain the integrity of the oak hammock as a whole. While they and we clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and

stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define the neighborhood I have called home for over 32 years, but which is suddenly disappearing all around me.

Let me be perfectly clear. This ordinance will not prevent anyone from removing hazardous trees or trimming their trees to remove hazardous limbs. What it does is require a second opinion from the city arborist to determine whether the tree is hazardous. If it is, it's very simple to get a hazardous tree or limb removed. I recently had two completely dead trees at the front of my property removed for the safety of my neighbors because they were right next to the road. The city arborist came out as soon as I called, and I got a free permit to remove them. This will not change with the new ordinance.

What it will do, and this is what builders are really opposed to, is prohibit variances that would allow non-residential structures to be built in our neighborhood and it would work with developers and homeowners to do their best to build homes that leave the oak hammock intact. If they are absolutely unable to, it will require mitigation in terms of planting new trees or payment into a mitigation fund. We are not against building and development in our neighborhood. We are only asking that it be done in a manner that is consistent with preserving the oak hammock ecosystem and maintaining the beauty of our Dania Beach community for future generations.

DANIA BEACH
SEA IT. LIVE IT. LOVE IT

City of Dania Beach, Florida
Department of Community Development
Planning and Zoning Division
(954) 924-6805 X3643
(954) 922-2687 Fax

Standard Development Application

- ☐ **Administrative Variance**
- ☐ **Land Use Amendment**
- ☐ **Plat**
- ☐ **Rezoning**
- ☐ **Site Plan**
- ☐ **Special Exception**
- ☐ **Variance**
- ☐ **Other:** _____ *(SEE APPLICATION TYPE SCHEDULE ON PAGES 3 & 4)*

Date Rec'd: _____

Petition No.: TX-065-20

THIS APPLICATION WILL NOT BE ACCEPTED UNTIL IT IS COMPLETE AND SUBMITTED WITH ALL NECESARY DOCUMENTS. Refer to the application type at the top of this form and **"Required Documentation"** checklist to determine the supplemental documents required with each application.
For after the fact applications, the responsible contractor of record shall be present at the board hearing. Their failure to attend may impact upon the disposition of your application. As always, the applicant or their authorized legal agent must be present at all meetings. All projects must also obtain a building permit from the City Building Division. For more information please reference the **Dania Beach Land Development Code Part 6, Development Review Procedures and Requirements.**

Location Address: City Wide

Lot(s): _____ Block: _____ Subdivision: _____

Recorded Plat Name: _____

Folio Number(s): _____ Legal Description: _____

Applicant/Consultant/Legal Representative **(circle one)** City of Dania Beach

Address of Applicant: 100 W Dania Beach Blvd

Business Telephone: (954) 924-6800 Home: _____ Fax: _____

E-mail address: _____

Name of Property Owner: _____

Address of Property Owner: _____

Business Telephone: _____ Home: _____ Fax: _____

Explanation of Request: Text Amendment - Tree Protection Overlay
*For **Plats** please provide proposed **Plat Name** for **Variances** please attach **Criteria Statement** as per **Section 625.40 of the Land Development Code.***

Prop. Net Acreage: _____ Gross Acreage: _____ Prop. Square Footage: _____

Existing Use: _____ Proposed Use: _____

Is property owned individually, by a corporation, association, or a joint venture?

_____

AUTHORIZED REPRESENTATIVE

I/we are fully aware of the request being made to the City of Dania Beach. If I/We are unable to be present, I/we hereby authorize City of Dania Beach **(individual/firm) to represent me/us in all matters related to this application. I/we hereby acknowledge that the applicable fee was established to offset administrative costs and is not refundable.**

I/we are fully aware that all approvals automatically expire within 12 months of City of Dania Beach Planning and Zoning Board or City Commission approval, or pursuant to the expiration timeframe listed in Part 6 of the Dania Beach Land Development Code.

STATE OF FLORIDA
COUNTY OF BROWARD
The foregoing instrument was acknowledged

By: _____
(Owner / Agent signature*)

BEFORE ME THIS 20th **DAY OF** August **, 20**20

By:

Eleanor Norena
(Print name of person acknowledging)

_____
(Joint owner signature if applicable)

Notary _____

(Signature of Notary Public – State of FLORIDA **)**

DEBORAH E. SABINO
MY COMMISSION # GG 303020
EXPIRES: March 12, 2023
Bonded Thru Notary Public Underwriters

Personally known ✓ **or Produced Identification** _____

Type of identification produced: _____ **or Drivers License** _____

***If joint ownership, both parties must sign. If partnership, corporation or association, an authorized officer must sign on behalf of the group. A notarized letter of authorization from the owner of record must accompany the application if an authorized agent signs for the owner(s).**

NO APPLICATION WILL BE AUTOMATICALLY SCHEDULED FOR A MEETING.

ALL APPLICATIONS MUST BE DETERMINED COMPLETE BY STAFF BEFORE PROCESSING OCCURS.

VIRTUAL MINUTES
SUNSHINE TREE PROTECTION OVERLAY VIRTUAL COMMUNITY MEETING
CITY OF DANIA BEACH
CONDUCTED USING COMMUNICATIONS MEDIA TECHNOLOGY
THURSDAY, NOVEMBER 12, 2020
5:30 – 6:30 PM

***TOPIC*:** *Discussion of the Ordinance creating the Harger Hills Tree Overlay in order to hear from the Community.*

This meeting was intended to be a Sunshine meeting so the Mayor and City Commissioners may attend as well, as requested at the last City Commission meeting. Those in attendance were Mayor Lori Lewellen, Mayor-Elect Tamara James, Vice Mayor Lauren Odman, Commissioner Bill Harris, and Commissioner-Elect Joyce Davis. Minutes were taken and the meeting was recorded. No final action would occur during this virtual meeting.

CALL TO ORDER

The community meeting was called to order at approximately 5:32PM by Vice Mayor Lauren Odman who gave the background information regarding this community meeting. She explained about questions that they wanted to go over and the commissioners' desire to hear from residents. City Attorney Tom Ansbro explained that Ryan St. George, City Arborist, would talk about how we got here, why the ordinance was in its present form and then Assistant City Attorney Eve Boutsis would talk about the three public hearings. The meeting would be opened up to public questions/comments and any ideas to make this better.

VIRTUAL COMMUNITY MEETING

Assistant City Attorney Eve Boutsis gave the background starting with the City being contacted by residents regarding an overlay to protect the Harger Hills beautiful Oak and native trees. A petition was drafted and the City Commission unanimously moved forward with drafting an ordinance for protection of the trees in this area. A Zoning In Progress (ZIP) was adopted August 25, 2020. She explained what happened after that and the ordinance now also included the FP&L area. On November 18, 2020, the Planning and Zoning Board votes on either approving or not approving this ordinance to the City Commission and then there would be a reading of the ordinance/public hearing by the City Commission on December 8, 2020 and if it passed, the second reading/public hearing would be January 12, 2021. Before she turned the community meeting over to the City's Arborist, she spoke about F.S. 163.045.

Ryan St. George, City Arborist, read F.S. 163.045 into the record and then gave the ordinance's details. He said they were trying to identify an alternative way to preserve more of the healthy trees within the community. He spoke about the purpose and intent section in the ordinance and then turned the meeting back to the Vice Mayor who called Michele to speak. Michele thanked the City for all their efforts and then spoke about the other trees being included and the advertising. She asked to go over the main points so that they could understand what was in the ordinance and then she wanted to understand the voting procedure. Assistant City Attorney Eve Boutsis explained that it was the Mayor and City Commissioners who would make the ultimate decision. This was why there were public hearings so that the Mayor and City Commissioners could hear from residents, etc. Ryan St. George then gave more highlights from the ordinance.

Sean then asked if someone did not want to speak, could they give their question to someone else to ask it and the Vice Mayor answered that they could ask someone else's question. Sean then stated that Harger Hills was not a community but rather a single block. Actually, there were three separate blocks. Another question dealt with if a tree needed trimming, who paid for it the owner

or the City? The Assistant City Attorney answered that the property owner was responsible for the trimming. He asked about the grandfather clause and Ms. Boutsis said there was a grandfather clause in there but the owner was responsible for the tree trimming. He read the clause into the record and Ms. Boutsis said they would look into the intent of the language as the City did not want to have people put more trees on their land.

Mayor-Elect James wanted more clarification of the grandfather clause. She asked how this language would affect developments already approved and how much would it cost for a new development to have an arborist onsite. The Assistant City Attorney explained that all ordinances were "going forward" and not retroactive. If a project was already approved, they were already vested in their rights. This only affected new projects going forward. This particular ordinance was only for the about seventy properties in the area. Ryan St. George explained the need for an arborist and the cost. Rabbi Laredo said that this would cost each homeowner more to have to pay for an arborist. Ryan St. George explained that it should not be a burdensome amount, if the services of an arborist were needed. Rabbi Laredo said on the record that a vast majority of the people in that three-block area did not want this. Jim Lizzo said he was very much in favor of protecting the trees and wondered if there was any other way to protect the trees without the added expense of an onsite arborist. Ryan St. George suggested self-education to ensure that the contractor did the correct job. David asked why was his three blocks being subject to this and not the whole City of Dania Beach? Assistant City Attorney Boutsis answered that there was a tree preservation code in the City and we have a mitigation fund but this was an area being looked at for enhanced provisions because it was one of the last old hammocks in all of Dania Beach. Sarah said that she moved here four years ago and has been working with FP&L constantly due to loss of power. Also, they lose power because people did not trim their trees. Assistant City Attorney Boutsis suggested having staff look into maybe another suggestion other than an arborist onsite.

Yosef Seewold asked about distance and Ryan St. George gave a few scenarios for navigating around an existing tree's critical root zone. Bonnie asked what type of education the City gave new owners regarding tree trimming. It was asked if the City could give input or outreach and educate people who wanted to trim trees. Also, what happened that disrupted the lives of the seventy plus people living in this area? Not only did she care about trees but also humans who have a hard time maneuvering their cars when water built up on the street. Assistant City Attorney Boutsis explained about the water and that the City was working diligently on the water issues. She also explained again why this was happening regarding the trees in this area. Ariel Edry asked why they were getting these new laws regarding trees in this area. Assistant City Attorney Eve Boutsis again stated that these meetings allowed the commissioners to take in everyone's comments for understanding of what the residents' desire. Vice Mayor Lauren Odman said that these outreach meetings help the commissioners understand those who were for and those who were against what was proposed.

Moshi wanted more detail on the zoning requirements because he might want to build an addition and Ryan St. George answered that and Ms. Boutsis explained that one could build on their own land and she gave different examples including the City's mitigation process. Igal Hatanian wanted to have just the three blocks vote on this issue and the Assistant City Attorney explained and said that every community would have people on both sides (for or against). Nothing was decided yet on this ordinance. Hirsch said that she and her husband both felt trees need to be protected but not in this way. We should just stop unscrupulous tree trimmers from working on the weekend and cutting down trees. Vice Mayor Lauren Odman again expressed the importance of these meetings and the input it derived from its residents. Louis introduced himself and spoke about his move. The trees were there and they were an attraction.

Jessica said that people were cutting their trees and trying to get rid of them. She wanted this ordinance stopped so that people would not have to pay more and that cost would not then become burdensome to residents. Stephanie Jofe said that F.S. 163.045 enabled property developers and property owners to arbitrarily take down trees abusively. We need to protect the oak hammock for the future. Trees also protect against flooding. Miami Trader wanted to know how many people signed the original petition and Vice Mayor Lauren Odman explained it was halted because it was drafted during the first part of Covid-19 and did not get finished. Anyone could get a copy of it, if they wanted. Miami Trader just felt that this ordinance was too extreme. Ari Sipper said that the original petition was not explained clearly and it was scary that the City was still pursuing this ordinance. The trees need to be saved but should not be singled out at an added expense to the homeowners in this community. Dr. Jofe loved the trees but there were greedy developers who were trying to destroy the canopy. He wanted simple language for the homeowner to make improvements on their property and a way to stop greedy developers from removing trees. The City should protect the hammock with taxpayer money. Ryan St. George said the ordinance was not well received and the effort was not interpreted as intended. He invited anyone to reach out to him about this ordinance. Assistant City Attorney Eve Boutsis stated that they would revisit the ordinance with the comments received from tonight's meeting.

MEETING ADJOURNED

As there was no further business to discuss, the meeting was adjourned at approximately 7:42PM.

Lajoie, Corinne

From: Gabi B <slpgabi@gmail.com>
Sent: Wednesday, November 18, 2020 9:13 AM
To: Lewellen, Lori; Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; info@davisfordaniabeach.com; Salvino, Marco; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard
Subject: my support for TX-065-20

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Hi all,

My name is Gabriella Hirschmann. I live at 5910 SW 37th Ave, in Dania Beach. I am writing to inform you of my support for TX-065-20: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock.

I have lived in my home in Dania Beach for 12 years. I support the formation of the Zoning Overlay District because the Harger Hills Oak Hammock is the last remaining oak hammock within Dania Beach and one of the few remaining oak hammocks in Broward County. Aside from making the streets in this area lovely, these trees create a sense of community, add to property values, lessen flooding, absorb sound and light pollution from Stirling Road and the Hard Rock Hotel Complex, shade and cool the streets and homes, and mitigate climate change for all of us. It is one of the few non-gated areas in the city has where everyone has access to walk, run and cycle in the shade.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I and the City Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board, at the request of the City Commission, to maintain the integrity of the oak hammock as a whole and protect this delicate ecosystem. While they and I clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define the city I have called home for over 12 years, but which is suddenly disappearing all around me.

My only request is that the presence of a licensed arborist be present for the duration of tree trimming be removed from the drafted ordinance. This would undoubtably be very costly to us residence.
Thank you so much for your attention to this matter,

Sincerely yours,
~Gabriella Hirschmann~

Lajoie, Corinne

From: michelle Nadel <michelledhammer@hotmail.com>
Sent: Wednesday, November 18, 2020 12:12 PM
To: Garcia, Ana; Lewellen, Lori; Norena, Eleanor; James, Tamara; Harris, Bill; Lajoie, Corinne; Odman, Lauren; Lorber, Richard; Brandimarte, Chickie; Boutsis, Eve A.
Subject: Zoning concerns, Ordinance TX-065-20

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Good morning,

I'm writing in regard to the above named Ordinance. I believe many people have had very good intentions for this project and we truly appreciate all the time and effort you have put into this endeavor on behalf of the Harger Hills residents.

While I am in support of this ordinance, I do have some concerns as discussed in prior meetings. Not insignificantly, a large opposition group has formed amongst the neighbors. I believe this is largely because of misinformation such as that you won't be able to cut down a dead tree. In fact, the group chat was originally named "Save our kids" as if in some way this would (G-d forbid) endanger anyone's children. I understand this is not the case and believe they do now as well. Nevertheless, their focus has shifted to fighting it based on cumbersome and costly constraints, even to simply trim back trees (which we all must do on a consistent basis). I DO NOT BELIEVE this was the intention of the Ordinance and do not want anyone to feel this is infringing on their rights or costing them their hard-earned money. I'm hoping there's a way to resolve this so we can move forward.

With regard to the hundreds of trees cut down on the FPL property, we never received an answer as to what the city may help replace. Aside from the power lines, there is significant noise and bright stadium lights coming from adjacent commercial properties. What can be done to hep?! I've now heard there has been zoning approval for a 200 Unit mixed use building on that land?! Is this true? The land is now literally a lake and building on it would just cause run-off and we are already under water! How can this be allowed?! I know the city benefits from building, but this would be completely unacceptable and dangerous given current conditions!

Please advise on the above issues. I look forward to speaking this evening.

Thank you again for all that you do.

Michelle Nadel

Lajoie, Corinne

From: Elias Bichachi <ebichachi@gmail.com>
Sent: Wednesday, November 18, 2020 4:42 PM
To: Lewellen, Lori
Cc: Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; Salvino, Marco; info@davisfordaniabeach.com; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard
Subject: Tree Preservation in the Harger Hills Oak Hammock
Attachments: 1159 Position Paper.pdf

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Hello Mayor, Incoming Mayor, Commissioners, Incoming Commissioners, and City Staff

My name is Elias "Eli" Bichachi. I live at 5910 SW 37th Ave, in Dania Beach. I am writing to inform you of my support for TX-065-20: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock.

I have lived in my home in Dania Beach for 12 years. I support the formation of the Zoning Overlay District because the Harger Hills Oak Hammock is the last remaining oak hammock within Dania Beach and one of the few remaining oak hammocks in Broward County. Aside from making the streets in this area lovely, these trees create a sense of community, add to property values, lessen flooding, absorb sound and light pollution from Stirling Road and the Hard Rock Hotel Complex, shade and cool the streets and homes, and mitigate climate change for all of us. It is one of the few non-gated areas in the city where everyone has access to walk, run and cycle in the shade.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area,
known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I and the City Commission, are concerned that the
above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board, at the request
of the City Commission, to maintain the integrity of the oak hammock as a whole and protect this delicate ecosystem. While they and I clearly respect individual
property rights, when those rights infringe on the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh
in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define the city I have
called home for over 12 years, but which is suddenly disappearing all around me.

As I expressed in the previous commision meeting the burden that has been put upon arborists to make a decision to determine whether a tree is in fact "dangerous or a risk," may not necessarily be properly determined by a licensed arborist. I have attached the Florida Chapter ISA position paper on the Florida Law for your

review. The Florida Chapter ISA expresses their plans on how they wish to educate the public that 'trees are not inherently dangerous. Trees can have or can develop defects that may cause trees or tree parts to fail. Trees should be assessed in order to identify defects and make mitigation recommendations to reduce the risks of failure." They also go on and state that they are going to begin educating their fellow Certified Arborists that "Just Because you Are Certified, Doesn't Mean You are Qualified," an plan on assisting Certified Arborists to determine if they have the knowledge necessary to determine if a tree is "dangerous" or a risk." They also plan on continuing informing Certified Arborists about the importance of Tree Risk Assessment Qualification (TRAQ) and how to obtain the qualification. This decision making power that has been thrusted upon the Certified Arborist community can be easily abused if they are not properly checked.

My only request is that the presence of a licensed arborist to be present for the duration of tree trimming be removed or minimized from the drafted ordinance. The city is already requesting a 48 Hour notice in which the City's arborist will arrive onsite to review the plan of the licenced tree trimming company. If this is not amended this would undoubtedly be a costly burden to us residences.

Thank you so much for your attention to this matter.

Very Respectfully,

Eli

--
Elias A. Bichachi, MBA, LEED AP
C: (786) 493-8698

Florida Chapter ISA

FLORIDA LAW - CHAPTER 2019-155
Committee Substitute for House Bill No. 1159

Position Paper

Recent legislative action, CHAPTER 2019-155, Committee Substitute for House Bill No. 1159, has charged ISA Certified Arborists with the authority to advise residential tree owners about the potential risk their tree(s) pose to people and/or property prior to pruning or removal.

For most of our existence, arborists have toiled in virtual anonymity, largely regarded by society as 'tree cutters' lacking an understanding of tree science. The ISA Certified Arborist program came along in 1992 and in less than 30 years elevated a small (about 15%) but important segment of those 'trees cutters' into a credentialed and respected green industry. The Florida Legislature including the house, senate, and governor, with support from the insurance and construction industries, now trust ISA Certified Arborists more than local government and any other Florida green industry group to help residents make the right decision with regard to their trees. This is an enormous societal evolution for many reasons but most importantly it will produce a positive impact on public safety while preserving our urban forest.

The Florida Chapter ISA (Chapter) understands the significance of this responsibility and will aid our members and ISA Certified Arborists (CAs) with this important task. The Chapter is a not-for-profit 501(c)3 Florida Corporation and, as such, is limited in the ability to lobby. The Chapter is, however, quite adept at education. We plan to use this strength and this unique opportunity to educate our Chapter members, CAs and Florida residential tree owners regarding this new law and its impact on one of Florida's most valuable assets, our urban forest.

The Chapter plans to do the following:

1. Public Awareness Campaign – Residential Tree Owners
   Action: Provide press releases that will go out state-wide on a regular basis.
   a. Teach tree owners that trees are not inherently dangerous. Trees can have or can develop defects that may cause trees or tree parts to fail. Trees should be assessed in order to identify defects and make mitigation recommendations to reduce the risks of failure.
   b. Help residential tree owners acquire the services of a CA that has the qualifications to assess the risk their tree(s) may pose.
   c. Make residential tree owners aware of the Tree Risk Assessment Qualification (TRAQ) and its benefits.
2. Member Awareness Campaign – Chapter Members and CAs
   Action: Develop presentations including subjects related to ethics and professionalism. These presentations will be incorporated into our existing scheduled continuing education seminars, starting in August of 2019. The presentations will teach:

   a. "Just Because you Are Certified, Doesn't Mean You are Qualified" – Assisting CAs to determine if they have the knowledge necessary to determine if a tree is "dangerous" or a risk.
   b. Continue to inform CAs about the importance of TRAQ and how to obtain the qualification.
3. Violation Procedures
   Action: Send press releases for the public that will go out state-wide on a regular basis as well as broad educational efforts geared towards CAs.
   a. Residential Tree Owners – Teach consumers of tree services how our credentialing programs function and encourage them to pursue violators using International ISA's existing Ethics and Integrity Violations program.
      i. Examples of violations
      ii. Reporting procedures
   b. Chapter Members and CAs – Remind our members of International ISA's existing Ethics and Integrity Violations program and how to use the program to self-police our industry.
      i. Examples of violations
      ii. Reporting procedures
      iii. Branding and Style Guide rules and procedures

The next six months to a year are going to be tumultuous in Florida, but the dust will settle and a new normal will become accepted. However, the long view of all this change tells a very different story and it is monumental for ISA and our credentialing programs. We believe, in the final assessment a few years from now, that ISA Certified Arborists will be judged the right group to provide these needed professional services.

Lajoie, Corinne

From: Igal Hatanian <ihatanian@gmail.com>
Sent: Sunday, November 15, 2020 11:08 AM
To: Lewellen, Lori; Odman, Lauren; Brandimarte, Chickie; Harris, Bill; James, Tamara; davisfordaniabeach@gmail.com; msalvino@leeslocksmith.com; Lajoie, Corinne; Norena, Eleanor; Sosa-Cruz, Candido; Boutsis, Eve A.; Ansbro, Tom; Ryan St. George
Subject: Dania Beach Ordinance Proposal - Follow Up

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Hi All,

Happy Sunday to all of you!

My name is Boruch Igal Hatanian and I recently closed on a home in Dania Beach. If you were on the Zoom call last week, my wife and I are finally moving down from NYC after eight years of trying to make it happen. We are very excited to be moving down to such a loving community, and based on our call even though we have our disagreements, I felt that we were being heard as a community and I look forward to working with you all in the future.

Regarding the ordinance itself, I hope you will really consider the extra burden of time, money and stress this will cause all the residents on these three streets and I hope you will all agree to vote no when the vote comes to pass.

I did have another question not related to the ordinance at all. I have a few businesses that are currently based in NY, I am wondering who I need to speak to in regards to bringing down these businesses and establishing our headquarters down here. I would love to have the business moved down to Florida and especially around the Dania Beach area where I can hire local community members. Who would I be able to speak with in regards to the transfer as well as any tax incentives you may have for the move?

On a final note, I also have a separate business that distributes medical supplies and PPE to government facilities and healthcare systems across the country. If you need ANY PPE at all, whether it is masks, gloves, wipes, Lysol etc....I can provide them. I am more than willing to provide them to the county with no markup, just whatever my base cost is. I know how hard they are come to come by and I would consider it a pleasure to help the county in any way I can.

Looking forward to working and meeting all of you in the near future.

With Respect,
Boruch Igal Hatanian
5911 SW 36 Ter
Dania Beach, FL 33312
347-463-1369

Lajoie, Corinne

From: Lisa Jaffe <jafflisa@gmail.com>
Sent: Sunday, November 15, 2020 5:16 PM
To: Lewellen, Lori; Odman, Lauren; Harris, Bill; James, Tamara; Brandimarte, Chickie; Salvino, Marco; info@davisfordaniabeach.com; Norena, Eleanor; Lajoie, Corinne; Lorber, Richard
Subject: support for TX-065-20

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Dear Officials,

I am writing to inform you of my support for TX-065-20: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock.

I support the formation of the Zoning Overlay District because the Harger HIlls Oak Hammock is the last remaining oak hammock within Dania Beach and one of the few remaining oak hammocks in Broward County. Aside from making the streets in this area lovely, these trees create a sense of community, add to property values, lessen flooding, absorb sound and light pollution from Stirling Road and the Hard Rock Hotel Complex, shade and cool the streets and homes, and mitigate climate change for all of us. It is one of the few non-gated areas in the city where everyone has access to walk, run and cycle in the shade.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the city limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I and the City Commission, are concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by the Zoning and Planning Board at the request of the City Commission, to maintain the integrity of the oak hammock as a whole. While they and I clearly respect individual property rights, when those rights infringe on the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree that interferes with their integrity. Those trees define this very unique but endangered neighborhood and ecosystem which is suddenly being threatened by recent building and development.

Thank you so much for your attention to this matter.

Sincerely yours,
Dr. Lisa Jaffe

Lajoie, Corinne

From: Stephanie Jofe <shrinkmom@kidbones.com>
Sent: Monday, November 16, 2020 1:34 PM
To: Ansbro, Tom
Subject: Support for TXT-065-20 : Create Tree Protection Overlay District

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Hi. My name is Stephanie Jofe. I live at 5880 SW 37th Terrace in Dania Beach.

I am writing to inform you of my **support for TX-065-20**: the text amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock. The City Commissioners requested this ordinance be written in order to protect one of the last remaining oak hammocks in Dania Beach.

I have lived in my home in Dania Beach in this beautiful oak hammock, for ___years. We chose to live in this neighborhood of Dania Beach because we wanted to live among the magnificent old oaks that canopy our streets and our properties. Aside from making our streets lovely, these trees create a sense of community, add to our property values, lessen flooding, absorb sound and light pollution from Stirling Rd. and the Hard Rock Hotel Complex, shade and cool our streets and homes, and mitigate climate change.

The City of Dania Beach's Code of Ordinances currently provides a certain and prescribed degree of protection to all trees within the City limits. In the area, known as the Harger Hills Oak Hammock, an intact, mature forested oak hammock community exists that is unique and irreplaceable. However, if ongoing residential development and redevelopment continues on the trajectory that has been most recently observed, I am concerned that the above protections will not be sufficient to ensure adequate protection and preservation of the existing tree canopy and specimen trees.

This Ordinance, which would provide the oak hammock further protection, has been very thoughtfully written by The Zoning and Planning Board, at the request of the City Commission, to maintain the integrity of the oak hammock as a whole and protect this delicate ecosystem. While they and we clearly respect individual property rights, when those rights infringe in the rights of the rest of the neighborhood, the City of Dania Beach should be given the opportunity to weigh in on the matter before very old and stately trees are removed or trimmed to a degree

that interferes with their integrity. Those trees define the neighborhood I have called home for over 32 years, but which is suddenly disappearing all around me.

Thank you so much for your attention to this matter,

Sincerely yours,

Stephanie Jofe, M.D.

Lajoie, Corinne

From: Michael Jofe <mjofe@mac.com>
Sent: Tuesday, November 17, 2020 9:49 AM
To: Michael Jofe
Subject: Support TXT-065-20

CAUTION This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.

Hi. My name is Michael Jofe and I am writing to you to ask you to support TXT-065-20 to create a zoning overlay district in the Harger Hills Oak Hammock. I have lived in my home in Dania Beach in this beautiful oak hammock, for 32 years. My wife and I raised our children here and we are very involved in our community. I am Surgeon-in-Chief at Joe DiMaggio Children's Hospital. My wife is a retired physician and full-time community volunteer.

Florida is home to many beautiful oak hammocks and lovely canopied roads. Suddenly, in this past year, since Fla Stat 163.045 went into effect, majestic old oak trees are being cut down in our oak hammock by developers and residents of the neighborhood. Fla Stat 163.045 is a preemption law which allows cutting down any tree in Florida that a "certified" arborist or landscape architect declares "hazardous" without a permit from the city where the tree is being removed. This law has enabled developers and property owners to pay potentially unethical arborists to state that healthy trees are hazardous for the purpose of building on a piece of property without any oversight or challenge from city arborists who disagree about the status of the trees. And since the state law does not define the word "hazardous "and because arborists are "certified" by the International Society of Arboriculture, their own professional group, which itself has very delayed oversight, this statute is ripe for abuse.

Since this is a preemption law, the current land development code regarding tree preservation has, in effect, been rendered inadequate to protect the oak hammock. In response, the City of Dania Beach, at the request of the City Commission, has written this Zoning Overlay Ordinance to protect the remainder of the Oak Hammock.

I believe the oak hammock should be protected for current and future generations of Dania Beach residents because it is unique and irreplaceable, it provides storm protection, stormwater storage and treatment, soil stabilization and strengthening, counters heat island effects, combats global warming, provides us with clean air, mitigates noise and visual pollution maintains species diversity, maintains our property values, and creates a sense of community, all in addition to being aesthetically pleasing.

It saddens us beyond words, for we appreciate how long it took these trees to grow and we know that this canopy will never be replaced in our lifetimes. As a physician who cares for children, I feel it is imperative to leave them a city with beautiful trees, clean air and dry land. Therefore, I am urging the Zoning and Planning Board and the Commissioners to vote in favor of allowing our city, which I believe is committed to tree preservation, to create this protected canopy area for us and future generations.

Sincerely yours,

Michael Jofe, M.D.

Lajoie, Corinne

From: Steve jens-rochow <stevejensrochow@gmail.com>
Sent: Monday, November 30, 2020 11:27 AM
To: Davis, Joyce; Lewellen, Lori; Odman, Lauren; James, Tamara; Salvino, Marco; Norena, Eleanor; Lajoie, Corinne; Ansbro, Tom; Boutsis, Eve A.
Subject: preserve the Harger Hills Oak Hammock

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

DEar Dania Beach Commissioners and city administrators,

The Harger Hills Oak Hammock is the last remaining oak hammock in Dania Beach. It is being threatened by development. Your Planning and Zoning Department has recommended that the city approve an amendment to the City's Unified Land Development Code to create a tree protection overlay regulation and district for the Harger Hills oak hammock.

I urge you to approve this regulation at its first reading on Dec. 8 and its second reading on Jan. 12.

It is my belief that the oak hammock should be protected for current and future generations of Dania Beach residents because it is unique and irreplaceable, it provides storm protection, stormwater storage and treatment, soil stabilization and strengthening, counters heat island effects, provides us with clean air, mitigates noise and visual pollution, maintains species diversity, reduces global warming, maintains our property values, and creates a sense of community, all in addition to being aesthetically beautiful.

Therefore, it is imperative for the city to do whatever it can to stop and mitigate tree removal in the Harger Hills Oak Hammock. Passing the Zoning Overlay Ordinance would be one large step in this direction.

Sincerely,
Steve Jens-Rochow

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Ordinance

Continued from:

Requested Action (Identify appropriate Action or Motion)
ADOPT ORDINANCE AMENDING THE FUTURE LAND USE PLAN ELEMENT OF THE LOCAL COMPREHENSIVE PLAN IN RESPONSE TO A REQUEST BY CCI PROPERTIES 1, LLC (LU-061-20), TO REDESIGNATE CERTAIN PROPERTY FROM "LOW-MEDIUM (10) RESIDENTIAL" TO "IRREGULAR (50 DU/AC)", WHICH PROPERTY IS GENERALLY LOCATED AT 4695 SW 45TH TERRACE, DANIA BEACH, WHICH LEGAL DESCRIPTION IS DESCRIBED IN EXHIBIT "A", A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
CM LU-061-20 Harbor Island LUPA first reading corrected, SR LU-061-20 Harbor Island LUPA first reading, O-2021- Land Use Plan Amendment (LU-061-20) CCI Properties (Harbor Landings), Location Map, Application and Backup OPT

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
MEMORANDUM

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistant Director
Richard Lorber, AICP, Planning and Zoning Manager

Richard Lorber
Digitally signed by Richard Lorber
DN: cn=Richard Lorber, o=City of Dania Beach, ou=P&Z, email=rlorber@daniabeachfl.gov, c=US
Date: 2020.12.01 11:29:39 -05'00'

SUBJECT: **LU-061-20:** The applicant, CCI Properties 1, Inc., is requesting a future land use map amendment to redesignate the subject property from the existing Low-Medium Residential (10 du/ac) to the proposed Irregular Residential Density (50 du/ac) for the property located at 4695 SW 45th Terrace. (FIRST READING)

REQUEST

LAND USE PLAN MAP AMENDMENT

The applicant is requesting to redesignate the subject property on the Future Land Use Map from the existing Low-Medium Residential (10 du/ac) to the proposed Irregular Residential Density (50 du/ac) for the property located at 4695 SW 45th Terrace.

Background

Harbor Landing is a proposed residential development, located at 4695 SW 45th Terrace. It is part of a larger, mixed-use development adjacent to the west, which is situated within the City of Hollywood. The Dania Beach application is to permit the construction of an eight-story apartment building with 275 residential units (including 15% affordable housing) on the east portion of the development. The complete project entails applications to amend the Land Use and Zoning designations, and for Plat and Site Plan approval.

Budgetary Impact

The approval of this Future Land Use Map amendment would allow redevelopment of the site to occur.

Recommendation

Approval.

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT

DATE: December 8, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistant Director
Richard Lorber, AICP, Planning and Zoning Manager

Eleanor Norena
Digitally signed by Eleanor Norena DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US Date: 2020.11.18 10:20:00 -05'00'

Corinne Lajoie
Digitally signed by Corinne Lajoie DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development, email=clajoie@daniabeachfl.gov, c=US Date: 2020.11.18 15:27:26 -05'00'

Richard Lorber
Digitally signed by Richard Lorber DN: cn=Richard Lorber, o=City of Dania Beach, ou=P&Z, email=rlorber@daniabeachfl.gov, c=US Date: 2020.11.17 16:11:16 -05'00'

SUBJECT: **LU-061-20:** The applicant, CCI Properties 1, Inc., is requesting a future land use map amendment to redesignate the subject property from the existing Low-Medium Residential (10 du/ac) to the proposed Irregular Residential Density (50 du/ac) for the property located at 4695 SW 45th Terrace. (FIRST READING)

LAND USE PLAN MAP AMENDMENT REQUEST

The applicant is requesting to redesignate the subject property on the Future Land Use Map from the existing Low-Medium Residential (10 du/ac) to the proposed Irregular Residential Density (50 du/ac) for the property located at 4695 SW 45th Terrace.

EXISTING ZONING:	Residential Mobile Home District (RHM)
PROPOSED ZONING:	Planned Residential Development District (PRD-1)
EXISTING FLUM DESIGNATION:	Low-Medium Residential (10 du/ac)
PROPOSED FLUM DESIGNATION:	Irregular Residential Density (50 du/ac) Pending LUPA Map Amendment LU-061-20
EXISTING USE:	Residential Mobile Home Park
PROPOSED USE:	275 Unit Multifamily Residential, including Affordable Housing Pending Site Plan Approval SP-058-20
SITE ADDRESS:	4695 SW 45th Terrace
SITE LOCATION:	Generally located NE of the intersection of Griffin Road and State Route 7 / US 441

SITE ACREAGE: ±5.5 gross acres

PUBLIC HEARING NOTICE
This item was duly advertised, posted and noticed pursuant to Article 610 of the LDC.

LAND USE PLAN MAP AMENDMENT
Harbor Landing is a proposed residential development, located at 4695 SW 45th Terrace. It is part of a larger, mixed-use development adjacent to the west, which is situated within the City of Hollywood. The Dania Beach application is to permit the construction of an eight-story apartment building with 275 residential units (including 15% affordable housing) on the east portion of the development. The complete project entails applications to amend the Land Use and Zoning designations, and for Plat and Site Plan approval.

Article 650 of the City's LDC states, requests for Land Use Plan amendments shall be referred to the Planning and Zoning Board for recommendation and the City Commission shall determine if the application meets the criteria identify in Section 650-40, which are identified below.

(1) An application for a land use plan amendment shall be substantiated by extensive data and analysis and shall not cause the comprehensive plan to be internally inconsistent or in conflict with other local, regional, state or federal laws.
(2) An application for a land use plan amendment shall undergo a public participatory planning process as required by law and the comprehensive plan.
(3) An application for a land use plan amendment shall meet any review criteria for amendments as contained in the comprehensive plan

The applicant has provided a justification statement identifying how their request is consistent with these criteria.

Applicant sent an early outreach letter to both residents and property owners along SW 43rd Terrace on September 8, 2020. In addition, the Applicant has reached out the Griffin Civic Association and is awaiting their feedback, if any, on the site plan. The Applicant will continue to conduct outreach on the process throughout the hearing process.

PLANNING AND ZONING BOARD ACTION
This application request requires a recommendation for the Planning and Zoning Board. The Planning and Zoning Board heard this item on October 21, 2020 where the motion to approved passed unanimously.

Recommendation
Adopt the ordinance approving the Land Use Plan Amendment application upon first reading.

Exhibit "B"

CCI PROPERTIES 1 LLC
***HARBOR LANDINGS**

4695 SW 45 TERRACE

LU-61-20

Land Use Plan Map Amendment

From:
Low-Medium Residential (10 du/ac)

To:
Irregular Residential Density (50 du/ac)

Feet
0 40 80 160 240 320

ORDINANCE NO. 2021-004

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, AMENDING THE FUTURE LAND USE PLAN ELEMENT OF THE LOCAL COMPREHENSIVE PLAN IN RESPONSE TO A REQUEST BY CCI PROPERTIES 1, LLC (LU-061-20), TO REDESIGNATE CERTAIN PROPERTY FROM "LOW-MEDIUM (10) RESIDENTIAL" TO "IRREGULAR (50 DU/AC)", WHICH PROPERTY IS GENERALLY LOCATED AT 4695 SW 45TH TERRACE, DANIA BEACH, WHICH LEGAL DESCRIPTION IS DESCRIBED IN EXHIBIT "A", A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the applicant, CCI Properties 1, LLC, the owner of the property located at 4695 SW 45th Terrace, Dania Beach, and legally described on Exhibit "A", has made an application (LU-061-20) to amend the City of Dania Beach Future Land Use Plan Map for the subject property from "Low-Medium (10) Residential" to "Irregular (50 du/ac), in order to redevelop the existing mobile home park with multifamily residential use; and

WHEREAS, the applicant has also submitted an application for Rezoning the subject property (RZ-062-20) from the existing Residential Mobile Home (RHM) District to the proposed Planned Residential Development (PRD-1) District; and

WHEREAS, the applicant has also submitted an application for Plat approval (PL-060-20), as part of the same development proposal, all concurrently known as Harbor Landings; and

WHEREAS, the applicant has also submitted an application for Site Plan (SP-058-20) approval, proposing to remove the existing mobile home park and construct a 275-unit multifamily apartment building with a portion including affordable housing as part of a newly proposed larger development; and

WHEREAS, the applicant has indicated that adding the proposed multifamily residential project to this location will provide new and affordable housing for a growing market to ensure residents can live in close proximity to transit and major employment centers; and

WHEREAS, the City Commission desires to approve such application;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the Future Land Use Element and Map is amended as described below:

THE FUTURE LAND USE PLAN ELEMENT OF THE LOCAL COMPREHENSIVE PLAN OF THE CITY OF DANIA BEACH, FLORIDA, IS AMENDED TO REDESIGNATE CERTAIN PROPERTY FROM "LOW-MEDIUM (10) RESIDENTIAL" TO "IRREGULAR (50 DU/AC)", WHICH PROPERTY IS GENERALLY LOCATED AT 4695 SW 45TH TERRACE, DANIA BEACH AND LEGALLY DESCRIBED IN EXHIBIT "A", A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE.

Section 2. That the associated Planning & Zoning Division Staff Report prepared for application LU-061-20 and the graphic map attached as Exhibit "B" are hereby incorporated into this ordinance as findings of fact.

Section 3. That if any section, clause, sentence or phrase of this Ordinance is for any reason held invalid or unconstitutional by a court of competent jurisdiction, the holding shall not affect the validity of the remaining portions of this Ordinance.

Section 4. That all ordinances or parts of ordinances in conflict with the provisions of this Ordinance are repealed.

Section 5. That staff shall submit this amendment to the Broward County Planning Council for a concurrent small-scale amendment to the Broward County Land Use Plan Map.

Section 6. That this Ordinance shall take effect immediately at the time of its passage. However, this plan amendment shall not become effective until the conclusion of the process and time frames set out in Section 163.3187(3)(a) of the Florida Statutes and re-certification by the Broward County Planning Council.

PASSED on first reading on December 8, 2020.

PASSED AND ADOPTED on second reading on _____, 2021.

ATTEST:

_____	_____
THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

_____

THOMAS J. ANSBRO
CITY ATTORNEY

EXHIBIT 'A'

Legal Description:

Parcel 1
A portion of TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMAN'S SURVEY, according to the Plat thereof, recorded in Plat Book 2, Page 26 of the Public Records of Miami-Dade County, Florida; more fully described as follows:

COMMENCING at the intersection of the East Right-of-Way line of State Road No. 7 with the South line of said Section 25; thence Northerly along the said East Right-of-Way, North 02°06'55" East, 1111.80 feet to the intersection of the East Right-of-Way line of State Road No. 7 and the South Right-of-Way line of the South New River Canal Easement; thence Easterly along said South Right-of-Way, North 90°00'00" East, 181.59 feet; thence North 76°04'42" East, 19.28 feet to the POINT OF BEGINNING; thence continue North 76°04'42" East, 394.91 feet; thence South 02°12'46" West 686.55 feet; thence North 87°51'58" West, 378.37 feet; thence North 02°06'55" East, 577.47 feet to the POINT OF BEGINNING. Said lands situate, lying and being in Broward County, Florida.

EXHIBIT 'B'

Graphic Map

Exhibit "B"

ERTIES 1 LLC
R LANDINGS

45 TERRACE
61-20

Plan Map
dment

dium
ial (10 du/ac)

Residential
50 du/ac)

Feet
160 240 320

Holland & Knight

515 E. Las Olas Boulevard, Suite 1200 | Ft. Lauderdale, FL 33301 | T 954.525.1000 | F 954.463.2030
Holland & Knight LLP | www.hklaw.com

Debbie M. Orshefsky
(954) 468-7871
debbie.orshefsky@hklaw.com

July 2, 2020

Eleanor Norena
Director of Community Development
100 W Dania Beach Blvd
Dania Beach, FL 33004

Re: Harbor Landings (4695 SW 45th Terrace, Dania Beach, FL 33314)

Dear Ms. Norena:

On behalf of CCI Properties 1 LLC, we are hereby submitting applications for a concurrent city and county land use plan amendment, rezoning, site plan and plat approval for the "Harbor Landings" project. Harbor Landings is located at 4695 SW 45th Terrace, Dania Beach, FL 33314 near the intersection of SR 7/US441 and Griffin Road, and is comprised of a unified plan of development for a mixed-use project located in both the City of Dania Beach and the City of Hollywood. The portion of Harbor Landings in the City of Dania Beach includes a 275 unit multifamily apartment building; the portion of Harbor Landings in the City of Hollywood includes a 230 room hotel and 8,500 SF of commercial use.

The residential component in Dania Beach will provide new and affordable housing for a growing market to ensure residents of both Dania Beach and Hollywood can live in close proximity to transit and major employment centers. The design of Harbor Landings will provide a strong street presence along SR7/US441, enhanced pedestrian connectivity between the residential and commercial portions of the development, transient mooring for vessels along the Dania Cut, and new neighborhood serving commercial/retail opportunities. Harbor Landings is intended to operate as a unified development with multiple ownership and therefore, also submitted with these applications is a Reciprocal Easement Agreement which will be recorded prior to issuance of any building permits for the new development.

The applications submitted include:

- City and County Land Use Plan Amendments to permit 50 units per acre
- Site Plan Application – 275 Residential Units and Related Amenities
- Rezoning – RHM to PRD-1 (a related zoning text amendment was filed in June)

- Plat – Joint Application for Dania Beach and Hollywood Properties

We look forward to working with you and your staff to bring this exciting project to fruition.

Very truly yours,

HOLLAND & KNIGHT LLP

Debbie Orshefsky

Debbie M. Orshefsky

cc: Corinne Lajoie, Assistant Director (w/enclosure)

Harbor Landings

Application for Amendment to the
City of Dania Beach and
Broward County Land Use Plans

Prepared By:
Kimley-Horn and Associates, Inc.
600 N. Pine Island Road, Suite 450
Plantation, Florida 33324
(954) 535-5100

July 2020

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1. TRANSMITTAL INFORMATION

A. Letter of transmittal from municipal mayor or manager documenting that the local government acted by motion, resolution or ordinance to transmit a proposed amendment to the Broward County Land Use Plan. Please attach a copy of the referenced motion, resolution or ordinance. The local government's action to transmit must include a recommendation of approval, denial or modification regarding the proposed amendment to the Broward County Land Use Plan.

To be provided.

B. Name, title, address, telephone, facsimile number and e-mail of the local government contact.

Corrine Lajoie, AICP - Assistant Director
Community Development Department
100 W Dania Beach Boulevard
Dania Beach, FL 33004
Phone: 954-924-6800 x3704
clajoie@daniabeachfl.gov

C. Summary minutes from the local planning agency and local government public hearings of the transmittal of the Broward County Land Use Plan amendment.

To be provided.

D. Description of public notification procedures followed for the amendment by the local government including notices to surrounding property owners, advertisements in local publications, signage at proposed site, etc.

The City of Dania Beach will provide public notification of the proposed amendment consistent with the City Code of Ordinances and Florida Statutes. Public notices of changes to the land use plan will follow public notification procedures to include newspaper advertisements, public notification of meeting agendas, letters and e-mails.

E. Whether the amendment is one of the following:

***Development of Regional Impact**

***Small scale development activity (Per Florida Statutes)**

***Emergency (please describe on separate page)**

The amendment is considered a small-scale development pursuant to Chapter 163.3187, Florida Statutes as the proposed amendment involves a use less than 10 acres and does not require a text change to the goals, policies, and objectives of the local government's comprehensive plan.

The Applicant requests that this application be processed as a small-scale amendment under the expedited procedures.

2. APPLICANT INFORMATION

A. Name, title, address, telephone, facsimile number and e-mail of the applicant.

CCI Properties 1, LLC
Andrew Bardar
President
4500 South State Road 7
Fort Lauderdale, FL 33314
Email: andybardar@aol.com>
Phone: 954-583-7082

B. Name, title, address, telephone, facsimile number and e-mail of the agent.

Debbie Orshefsky, Esq.
Holland & Knight
515 East Las Olas Boulevard, Suite 1200
Fort Lauderdale, FL 33301
Email: debbie.orshefsky@hklaw.com
Phone: 954-468-7871

C. Name, title, address, telephone, facsimile number and e-mail of the property owner(s).

CCI Properties 1, LLC
Andrew Bardar
President
4500 South State Road 7
Fort Lauderdale, FL 33314
Email: andybardar@aol.com>
Phone: 954-583-7082

D. Applicant's rationale for the amendment. The Planning Council requests a condensed version for inclusion in the staff report (about two paragraphs). Planning Council staff may accept greater than two paragraphs, if submitted in an electronic format.

The applicant is requesting to change the current future land use designation of the property located at 4695 SW 45th Terrace, Dania Beach, FL 33314 (the "Property") from Low-Medium Residential (10 du/ac) per the City Land Use Plan and Low-Medium (10) Residential on County Land Use Plan to Irregular Residential Density (50 du/ac) on the City plan and High Residential (50 du/ac) on the County Plan. The existing use of the Property is for mobile homes. The narrow waterway which bisects the amendment area is being permitted to be filled and returned to upland use.

The proposed residential use is actually part of a unified plan of development with the 5+/- acres lying directly west of the amendment area located in the City of Hollywood ("Harbor Landings") and designated Transit Oriented Corridor (TOC) on the applicable land use plans. Harbor Landings is an integrated mixed-use project with 230 hotel keys, 8,500 SF of commercial / retail, and 275 multifamily units. The hotel keys and commercial / retail uses are located within the City of Hollywood directly fronting and with access to State Road 7/441. By designing the Dania Beach residential portion of Harbor Landings and the Hollywood hotel and commercial uses as a unified development plan, the development will provide a strong street presence, enhanced pedestrian connectivity, transient mooring for vessels along the Dania Cut, and new neighborhood serving commercial / retail tenants. The residential component in Dania Beach will provide new and affordable living spaces for a growing market to ensure residents of both Dania Beach and Hollywood can live in close proximity to major employment centers.

The proposed Residential Land Use is consistent with the Broward County Land Use Plan ("BCLUP"), including Strategy TR-1 (prioritizing new development and redevelopment including reference to the major transit corridors), Strategy MM-2 (recognizing the linkages between transportation and housing), and Strategy AH-4 (affordable housing).The Property is ideally located for a mixed-use project of this type as it supports, provides, and integrates a range of residential uses (housing options) and non-residential uses (including employment-based uses) within a defined setting that will enhance the opportunities to utilize and achieve the aforementioned strategies. The Property is situated in an area of the City of Dania Beach and the County that is intended to support additional development due to the Property's proximity to major transportation corridors, public infrastructure, and employment centers. In addition, the increase in development can be supported by the area's existing public infrastructure including water, wastewater, transportation, parks and recreation facilities, stormwater, etc.

3. AMENDMENT SITE DESCRIPTION

A. Concise written description of the general boundaries and gross acreage (as defined by BCLUP) of the proposed amendment.

The amendment site encompasses ±5.5 gross acres located in the City of Dania Beach (the "City"). The amendment site is generally located northeast of the intersection of Griffin Road and State Route 7 / US 441.

B. Sealed survey, including legal description of the area proposed to be amended.

The survey with legal description of the amendment site is provided. See **Exhibit A.**

C. Map at a scale clearly indicating the amendment's location, boundaries and proposed land uses.

The location map indicating the amendment site boundaries and proposed land use is provided. See **Exhibit B.**

4. EXISTING AND PROPOSED USES

A. Current and proposed local and Broward County Land Use Plan designation(s) for the amendment site. If multiple land use designations, describe gross acreage within each designation. For Activity Center amendments, the proposed text indicating the maximum residential and nonresidential uses must be included.

The Project site is currently designated 10 du/ac Residential on both the City and Broward County Land Use Plans. The applicant is requesting to amend the land use designation from Low-Medium (10) Residential to Irregular (50 du/ac) (City Land Use Plan) and from Low-Medium (10) Residential to High Density Residential (50 du/ac) (County Land Use Plan). See **Table 1** below.

TABLE 1: LAND USE				
EXISTING LAND USE	BCLUP Acres (gross)	BCLUP DU	City Acres (net)	City DU
Low-Medium (10) Residential	±5.5	10 / acre	±5.5	10 / acre
PROPOSED DEVELOPMENT PROGRAM (Maximum)				
Residential Land Use: 275 multi-family dwelling units				

Maps of the current City and County future land use designations are provided. See **Exhibit C.**

B. Indicate if the flexibility provisions of the Broward County Land Use Plan have been used for adjacent areas.

The flexibility provisions have not been utilized for the adjacent areas.

C. Existing use of amendment site and adjacent areas.

The existing uses of the amendment site and adjacent areas are provided in **Table 2** below:

TABLE 2: EXISTING USES	
Amendment Site	Mobile Homes
North	Canal, Broward County Electrical Generation Facility
South	Mixed Use (Neighborhood Retail & Residential)
West	Intensive commercial
East	Industrial

D. Proposed use of the amendment site including proposed square footage (for analytical purposes only) for each non-residential use and/or dwelling unit count. For Activity Center amendments, also provide each existing non-residential use square footage and existing dwelling units for amendment area.

The uses within the amendment area will be limited to those in the **Table 3** below:

TABLE 3: PROPOSED USES		
Use	**Proposed Intensity**	**Existing SF/DU**
Multi-Family	275 dwelling units	42 mobile homes / dwelling units (see also E. below)

Maps of the proposed City and County future land use designations are provided. See **Exhibit D.**

E. Maximum allowable development per local government adopted and certified municipal land use plans under existing designation for the site, including square footage/floor area ratio/lot coverage/height limitations/ for each non-residential use and/or dwelling unit count.

Based upon the existing Low-Medium (10) Residential land use and utilizing a ratio of 10 dwelling units per acre, the maximum allowable development would be 55 dwelling units.

5. ANALYSIS OF PUBLIC FACILITIES AND SERVICES

A. Potable Water Analysis

1. Provide the potable water level of service per the adopted and certified local land use plan, indicating the adoption date of the 10 Year Water Supply Facilities Workplan.

The County's Water Management Plan (adopted March 28, 2019) allows for a level of service of 28.9 MGD. The actual 2020 adjusted raw water demand is approximately 9.11 MGD and is projected in the County's Water Management Plan to increase to 10.18 MGD by 2040. The City's Consumptive Use Permit with the SFWMD provides for a withdrawal capacity of 35.96 MGD through 2028.

2. **Identify the potable water facility serving the area in which the amendment is located including the current plant capacity, current and committed demand on the plant and planned plant capacity expansions, including year and funding sources. Identify the well field serving the area in which the amendment is located including the South Florida Water Management District (SFWMD) permitted withdrawal and expiration date of the SFWMD permit.**

   The subject site is currently being provided potable water from Broward County Water Treatment Plant 3AWTP. Refer to **Table 4** for the current plant and wellfield capacity and demands for District 3A.

TABLE 4: DISTRICT 3A PLANT CAPACITY, DEMAND, AND WELLFIELD – POTABLE WATER	
Plant Capacity	2.0 MGD
Current Plant Demand	47,676 GD
Committed Plant Demand	2.0 MGD
SFWMD Permitted Withdrawal	20.67 MGD from the Biscayne Aquifer 0.58 MGD from the Floridan Aquifer
Wellfield Capacity	43.0 MGD
Wellfield Committed Capacity	34.9 MGD
Wellfield Remaining Capacity	8.1 MGD
Expiration date of SFWMD Permit (#06-00146-W & #06-01634-W)	April 10, 2028 and March 13, 2028

Source: Broward County Water Management Plan and City of Hollywood Comprehensive Plan

3. **Identify the net impact on potable water demand, based on adopted level of service, resulting from the proposed amendment. Provide calculations, including anticipated demand per square foot or dwelling unit.**

   The proposed development consists of 275 multifamily dwelling units Refer to **Table 5** for the proposed development's potable water impact.

TABLE 5: POTABLE WATER IMPACT			
	Use	**Calculation**	**Total**
Existing	42 mobile homes / existing number of dwelling units	**100** GPD per unit	4,200 GPD
Proposed	Residential 275 du	**350** GPD per unit	96,250 GPD
		Change	+92,050 GPD

Source: Broward County Water Management Plan

4. **Correspondence from potable water provider verifying the information submitted as part of the application on items 1-3 above. Correspondence must contain name, position and contact information of party providing verification.**

The letter from the potable water provider is included as **Exhibit E**.

B. Sanitary Sewer Analysis

1. **Provide the sanitary sewer level of service per the adopted and certified local land use plan.**

The level of service in the City of Hollywood Water Management Plan is 315 gallons per day per Equivalent Residential Connection (City of Hollywood WWTP).

2. **Identify the sanitary sewer facilities serving the area in which the amendment is located including the current plant capacity, current and committed demand on the plant and planned plant capacity expansions, including year and funding source.**

The subject site is currently being serviced by the City of Hollywood WWTP. Refer to **Table 6** for the Regional Wastewater System Plant capacity, demand, and planned expansions.

TABLE 6: SANITARY SEWER DEMAND, CAPACITY, AND EXPANSION	
Plant Capacity	48.75 MGD
Current + Committed Plant Demand	(42.0 MGD + 0.27 MGD) = 42.27 MGD
Planned Plant Capacity	60.0 MGD
Year and Funding Sources	2012, Water & Sewer Fund

Source: City of Hollywood Comprehensive Plan (2008)

3. **Identify the net impact on sanitary sewer demand, based on the adopted level of service, resulting from the proposed amendment. Provide calculations, including anticipated demand per square foot or dwelling unit.**

The proposed development consists of 275 multi-family dwelling units. Refer to **Table 7** for the proposed development's sanitary sewer impact.

TABLE 7: SANITARY SEWER IMPACT			
	Use	**Calculation**	**Total**
Existing	42 mobile homes / existing number of dwelling units	300 GPD/GRP Each	**12,600 GPD**
Proposed	Residential 275 du	250 GPD/Unit	**68,750 GPD**
		Change	**56,150 GPD**

Source: City of Hollywood Comprehensive Plan (2008)

4. **Correspondence from sanitary sewer provider verifying the information submitted as part of the application on items 1-3 above. Correspondence must contain name, position and contact information of party providing verification.**

   The letter from the sanitary sewer provider is included in **Exhibit E**.

C. Solid Waste Analysis

1. **Provide the solid waste level of service per the adopted and certified local land use plan.**

   The following is the adopted level of service standard for the proposed uses.

   Facility/Service Area Level of Service Standard

   Residential 8.9 lbs. per unit per day

   Source: City of Hollywood Comprehensive Plan (2008)

2. **Identify the solid waste facilities serving the service area in which the amendment is located including the landfill/plant capacity, current and committed demand on the landfill/plant capacity and planned landfill/plant capacity.**

   The City solid waste collection and disposal is handled by the BCICS landfill.

TABLE 8: SOLID WASTE CAPACITY
Landfill/Plant capacity: 4.823 million tons/year at BCICS Facility (698,235 tons/year at Resource Recovery Facility)
Current: 570,000 tons/ demand at BCICS Landfill
Committed Capacity: 570,000 tons/ demand at BCICS Landfill

Source: City of Hollywood Comprehensive Plan (2008)

3. **Identify the net impact on solid waste demand, based on the adopted level of service, resulting from the proposed amendment. Provide calculations, including anticipated demand per square foot or dwelling unit.**

   Table 9 below identifies the proposed development's solid waste impact.

TABLE 9: SOLID WASTE IMPACT			
	Use	**Calculation**	**Total**
Existing	42 mobile homes / existing number of dwelling units	8.9 lbs. per Unit/day	374 lbs./day
Proposed	Residential 275 du	8.9 lbs. per Unit/day	2,448 lbs./day
		Change	+3,074 lbs./day

Source: City of Hollywood Comprehensive Plan (2008)

4. **Correspondence from the solid waste provider verifying the information submitted as part of the application on items 1-3 above. Correspondence must contain name, position and contact information of party providing verification.**

   See **Exhibit F** for the solid waste provider information.

D. **Drainage Analysis**

1. **Provide the drainage level of service per the adopted and certified local land use plan.**

   1) Private Property: retain property and dispose of ½ inch of storm runoff during any five minute period.

   2) Buildings: To have the lowest floor elevation no lower than the elevation for the respective area depicted on the National Flood Insurance Rate Map (FIRM) by Federal Emergency Management Agency (FEMA) for flood hazard areas based on 100 year flood elevation plus 1 foot.

2. **Identify the drainage district and drainage systems serving the amendment area.**

   South Florida Water Management District and Broward County Environmental Engineering and Permitting Division

3. **Identify any planned drainage improvements, including year, funding sources and other relevant information.**

   Drainage improvements will be completed at time of construction, which is estimated to occur within 1-2 years after approvals are vested.

4. **Indicate if a Surface Water Management Plan has been approved by, or an application submitted to, the SFWMD and/or any independent drainage district, for the amendment site. Identify the permit number(s), or application number(s) if the project is pending, for the amendment site. If an amendment site is not required to obtain a SFWMD permit, provide documentation of same.**

Surface Water License will be submitted to Broward County during the course of the City of Dania Beach's site plan approval process.

5. **If the area in which the amendment is located does not meet the adopted level of service and there are no improvements planned (by the unit of local government or drainage authority) to address the deficiencies, provide an engineering analysis which demonstrates how the site will be drained and the impact on the surrounding properties. The information should include the wet season water level for the amendment site, design storm elevation, natural and proposed land elevation, one-hundred-year flood elevation, acreage of proposed water management retention area, elevations for buildings, roads and years, storage and runoff calculations for the design storm and estimated time for flood waters to recede to the natural land elevation.**

   The subject site is located within SFWMD. Development within the site will be required to meet the drainage standards of the 100 year floor criteria.

6. **Correspondence from local drainage district verifying the information submitted as part of the application on items 1-5 above. Correspondence must contain name, position and contact information of party providing verification.**

   The letter from the local drainage district will be provided upon receipt.

E. Recreation and Open Space Analysis

1. **Provide the recreation level of service per the adopted and certified local land use plan.**

   The adopted level of service for recreation and open space in both the City and Broward County is 3 acres per 1,000 residents

For amendments which will result in an increased demand for "community parks" acreage, as required by the Broward County Land Use Plan, an up-to-date inventory of the municipal community parks inventory must be submitted.

See **Exhibit G** for the City of Dania Beach parks inventory.

2. **Identify the net impact on demand for "community parks" acreage, as defined by the Broward County Land Use Plan, resulting from this amendment.**

TABLE 10: RECREATION AND OPEN SPACE IMPACT			
	Use	**Calculation**	**Total**
Existing	55 mobile homes/dwelling units (maximum allowable development per existing land use designation)	55 units x 2.5 persons per du[1] x 0.003 ac/pp[2]	0.413 acres
Proposed	275 multi-family units	275 units x 1.8 persons[1] x 0.003 ac/pp[2]	1.485 acres
Change			**+ 1.07 acres**

(1) Source: City of Dania Beach Demand Generation Rates(Sec. 805-110. - Recreation and open space level of service standard, generation rates, and impact mitigation)

(2) Source: City Comprehensive Plan – Future Land Use Element Policy 3.3

3. **Identify the projected "community parks" acreage needs based on the local government's projected buildout population.**

TABLE 11: COMMUNITY PARK NEEDS				
Planning Horizon	Population (Projected)(1)	Park Acreage Demand (amount needed to maintain LOS)	Available(2)	Surplus (+) / Deficit (-) acreage
2020	33,124	99.37 acres	127.83	+ 28.46 acres
2025	36,181	108.54 acres	127.83	+ 19.29 acres
2030	38,678	116.03 acres	127.83	+ 11.8 acres

(1) Estimates and projections by Shimberg Center for Housing Studies, based on 2000 and 2010 U.S. Census data and population projections by the Bureau of Economic and Business Research, University of Florida. University of Florida

(2) Source: City of Dania Beach Citywide Parks Master Plan, 2019

Based on this analysis, the City has adequate parks and open space facilities to meet the anticipated population in both the short term and long term planning horizons.

The following parks are located within approximately 5 miles of the amendment site:

City Parks

- P.J. Meli Aquatic Center Park (12.30 acres) – Community Park
- Dania Cove Park (4.7 acres) – Mini Park
- Tigertail Lake Center (27.40 acres) – Special Facility

- Tigertail Dog Park (11.9 acres) – Special Facility
- Griffin Marine Park (1.86 acres) – Special Facility

County Parks

- South Fork Canoe Launch (0.86 acres) – Neighborhood Park
- Topeekeegee Yugnee Park (138.6 acres) – Regional Park
- Plantation Heritage Park (88.5 acres) – Regional Park

4. **As applicable, describe how the local government and/or applicant are addressing Broward County Land Use Plan Policies 2.5.4 and 2.5.5. (a. through e.) regarding the provision of open space.**

   The proposed development allocates a gross project area of 56, 153 SF (1.29 acres) for common open space.

F. Traffic Circulation Analysis

1. **Identify the roadways impacted by the proposed amendment and indicate the number of lanes, current traffic volumes, adopted level of service and current level of service for each roadway.**

   Major roadways serving the amendment site include:

   - SR-818/Griffin Road
   - US-441/SR-7

   The level of service (LOS) standards maintained by Broward County and the City of Dania Beach are summarized below in **Table 12**.

Broward County

The amendment site is located within the Southeast Concurrency District which is subject to the provisions of the Broward County Transportation Concurrency System. Therefore, the level of service standard determined by the Broward County Development Review Services was considered for this analysis. The level of service standard for all roadways within the impact area is LOS D for long range planning purposes.

City of Dania Beach

The City of Dania Beach recognizes the County's LOS D standards in their adopted Comprehensive Plan. In addition, the level of service standard, corresponding service volumes, existing (2017) peak hour volume and existing (2017) level of service for the surrounding roadway network are summarized in **Table 12**. Note that existing (2017) traffic volumes utilized in the analysis represent the latest available traffic volumes from the Broward County Metropolitan Planning Organization's (MPO) *Level of Service Spreadsheet-2017.*

TABLE 12: EXISTING (2017) CONDITIONS LOS ANALYSIS					
Roadway	*Segment*	*Existing Laneage*	*Maximum Service Volume*	*2017 Peak Hour Volume*	*2017 LOS*
Griffin Road	E of Fla Turnpike	6LA	5,390	3,278	C
Griffin Road	E of SR 7	6LA	5,390	3,325	C
SR-7	N of Stirling Rd	6LA	5,390	5,605	F
SR-7	N of Griffin Rd	6LA	5,390	5,273	D

2. **Identify the projected level of service for the roadways impacted by the proposed amendment for the long-range planning horizons. Please utilize average daily and P.M. peak hour traffic volumes per Broward County Metropolitan Planning Organization plans and projections.**

The projected level of service for the short-term (i.e., 2024) planning horizon was determined using linear interpolation of the currently available existing (2017) peak hour volumes and the long-term (2040) peak hour volumes to obtain the short-term peak hour volume. Once the interpolated value was obtained, FDOT's 2013 *Quality/Level of Service Handbook* was used to find the appropriate level of service volumes thresholds. The level of service for the short-term planning horizon is summarized in **Table 13.**

Long-term (2040) projected level of service was determined using 2040 traffic volume forecasts obtained from the Broward Country MPO's *Level of Service Spreadsheet-2017*. The level of service for the long-term planning horizon is summarized in **Table 14.**

TABLE 13: SHORT-TERM 2024 LOS ANALYSIS						
Roadway	*Segment*	*Existing Laneage*	*Maximum Service Volume*	*Growth Rate*	*2024 Peak Hour Volume*	*2024 LOS*
Griffin Road	E of Fla Turnpike	6LA	5,390	1.30%	3,576	C
Griffin Road	E of SR 7	6LA	5,390	1.22%	3,608	C
SR-7	N of Stirling Rd	6LA	5,390	1.69%	6,267	F
SR-7	N of Griffin Rd	6LA	5,390	1.32%	5,761	F

TABLE 14:LONG-TERM 2040 LOS ANALYSIS					
Roadway	*Segment*	*Existing Laneage*	*Maximum Service Volume*	*2040 Peak Hour Volume*	*2040 LOS*
Griffin Road	E of Fla Turnpike	6LA	5,390	4,256	C
Griffin Road	E of SR 7	6LA	5,390	4,256	C
SR-7	N of Stirling Rd	6LA	5,390	7,781	F
SR-7	N of Griffin Rd	6LA	5,390	6,878	F

3. **Planning Council staff will analyze traffic impacts resulting from the amendment. The applicant may provide a traffic impact analysis for this amendment – calculate anticipated average daily and pm peak hour traffic generation for the existing and proposed land use designations. If the amendment reflects a net increase in traffic generation, identify access points to/from the amendment site and provide a distribution of the additional traffic on the impacted roadway network for the long-range planning horizon.**

The trip generation potential for the amendment site was calculated using rates reported by the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, 10th Edition. The existing land use designation allows for a maximum of 10 units per acre on the 5.5-acre site resulting in 55 residential units. The proposed land use designation allows for a maximum of 50 units per acre on the 5.5-acre site resulting in 275 residential units.

Note that the land use designations differ between Broward County and the City of Dania Beach. Broward County's existing land use designation allows for low-rise residential units and the proposed land use designation allows for high-rise residential units. While the City's existing land use designation allows for residential mobile homes and the proposed land use designation allows for mid-rise residential units. Therefore, to provide a conservative analysis, the lower trip generator was used for the existing land use designation's trip generation and the higher trip generator was used for the proposed land use designation's trip generation. The site trip generation potential under existing conditions was evaluated utilizing ITE Land Use Code (LUC) 240 (Mobile Home Park). The site trip generation potential under proposed conditions was evaluated utilizing ITE LUC 221 (Multifamily Housing [Mid-Rise]).

A multimodal (public transit, bicycle, and pedestrian) factor of 4.0 percent (4.0%) was applied based on US Census *Means of Transportation to Work* data for the census tract in the vicinity of the project site. The multimodal factor was applied to the trip generation calculations to account for the environment in which the project site is located. It is expected that some residents, guests, employees, and patrons will choose to walk or use public transit to and from the development.

The proposed amendment is expected to generate 88 net new trips (54 entering and 34 exiting) during the P.M. peak hour. A summary of the trip generation rates and calculations is presented in **Table 15** and **Table 16**. Detailed trip generation calculations are presented as **Exhibit H.**

TABLE 15: TRIP GENERATION –EXISTING LAND USE DESIGNATION		
Land Use Code	**ITE Code**	**PM Trips**
Mobile Home Park (55 dwelling units)	240	24
Total		**24**

Source: ITE *Trip Generation Manual*, 10th Edition.

TABLE 16: TRIP GENERATION – PROPOSED LAND USE DESIGNATION		
Land Use Code	**ITE Code**	**PM Trips**
Multifamily Housing (Mid-Rise) (275 dwelling units)	221	112
Total		**112**

Source: ITE *Trip Generation Manual*, 10th Edition.

External amendment traffic was distributed to the surrounding roadway network based on a select zone analysis performed utilizing the Florida Standard Urban Transportation Model Structure (FSUTMS) Southeast Regional Planning Model (SERPM). Note that within the SERPM, the Traffic Analysis Zone (TAZ) in which the project site is located includes one (1) centroid connector to the south along Griffin Road and no centroid connectors to SR-7. Therefore, minor adjustments were made to determine the expected traffic to/from the site.

It is expected that 48 percent (48%) of project traffic will access the site to/from the east, 26 percent (26%) of project traffic will access the site to/from the west, and 10 percent (10%) of project traffic will access the site to/from the south. These trips, totaling 84 percent (84%), will travel along SR-7 north of Griffin Road to access the project driveways. Therefore, to provide a conservative analysis, the significance calculations shown in Table 6 and Table 7 utilized the 84 percent (84%) of traffic accessing the site to/from the east, west, and south rather than the 16 percent (16%) of traffic accessing the site to/from the north. The FSUTMS SERPM output of the external amendment traffic distribution is contained in **Exhibit I.**

Impacts to the surrounding roadway network were evaluated to identify specific links that would be both significantly and adversely impacted as a result of the increase in project traffic associated with the proposed land use plan amendment. Links were considered to be significantly impacted if the proposed land use amendment contributed net new external trips in excess of 3.0 percent (3.0%) of the roadway's maximum service volume reported in the Broward County MPO's *Level of Service Spreadsheet-2017.* This approach is consistent with the current methodology for impact determination used by the Broward County Planning Council. Significantly impacted links were considered to be adversely impacted when the total traffic volume reported for the horizon year exceeded the maximum service volume reported for the appropriate level of service standard. The short-term (2024) and long-term (2040) analyses are summarized in **Table 17** and **Table 18**.

Based on the short-term (2024) and the long-term (2040) analyses, no roadway segments were determined to be significantly nor adversely impacted by the development.

TABLE 17: 2024 PEAK HOUR SIGNIFICANCE CALCULATIONS

Roadway	Segment	Existing Laneage	Maximum Service Volume	Growth Rate	2024 Peak Hour Volume	LOS	% Assignment	Trips	% Impact	Significant Impact	2024 Peak Hour Volumes with Proposed Amendment	LOS
Griffin Road	E of Fla Turnpike	6LA	5,390	1.30%	3,576	C	26%	23	0.43%	No	3,599	C
Griffin Road	E of SR 7	6LA	5,390	1.22%	3,608	C	48%	42	0.78%	No	3,650	C
SR-7	N of Stirling Rd	6LA	5,390	1.69%	6,267	F	10%	8	0.15%	No	6,275	F
SR-7	N of Griffin Rd	6LA	5,390	1.32%	5,761	F	84%	74	1.37%	No	5,835	F

TABLE 18:2040 PEAK HOUR SIGNIFICANCE CALCULATIONS

Roadway	Segment	Existing Laneage	Maximum Service Volume	Growth Rate	2040 Peak Hour Volume	LOS	% Assignment	Trips	% Impact	Significant Impact	2040 Peak Hour Volumes with Proposed Amendment	LOS
Griffin Road	E of Fla Turnpike	6LA	5,390	1.30%	4,256	C	26%	23	0.43%	No	4,279	C
Griffin Road	E of SR 7	6LA	5,390	1.22%	4,256	C	48%	42	0.78%	No	4,298	C
SR-7	N of Stirling Rd	6LA	5,390	1.69%	7,781	F	10%	8	0.15%	No	7,789	F
SR-7	N of Griffin Rd	6LA	5,390	1.32%	6,878	F	84%	74	1.37%	No	6,952	F

4. **Provide any transportation studies relating to this amendment, as desired.**

   No supplemental studies are being provided at this time.

G. Mass Transit Analysis

1. **Identify the mass transit modes, existing and planned mass transit routes and scheduled service (headway) serving the amendment area within one-quarter of a mile.**

Existing Broward County Bus Transit Service

- Broward County Transit (BCT) Route 15 operates on Griffin Road linking Fort Lauderdale-Hollywood International Airport Tri-Rail Station and County Line Road. It makes stops at Fort Lauderdale/Hollywood Airport Tri-Rail Station Arrival/Departure, Stirling Road and US-441/SR-7, Hollywood Boulevard and S 56th Avenue, Pembroke Road and SW 40th Avenue, Hallandale Beach Boulevard and SW 52nd Avenue, and County Line Road and SW 52nd Avenue. Route 15 operates with approximately 60-minute headways during the P.M. peak period.
- BCT Route 18 operates on US-441/SR-7 linking Lauderhill Mall and Golden Glades Park and Ride/Tri-Rail Station/Greyhound Station. It makes stops at Golden Glades Interchange, NW 215th Street and US-441/SR-7, Hollywood Boulevard and US-441/SR-7 (Tyler Street), Stirling Road and US-441/SR-7, Davie Boulevard and US-441/SR-7, and Lauderhill Mall. Route 18 operates with approximately 30-minute headways during the P.M. peak period.
- BCT Route 441 Breeze operates on US-441/SR-7 linking Coconut Creek Casino and Golden Glades Park and Ride/Tri-Rail Station/Greyhound Station. It makes stops at Turtle Creek Drive and US-441/SR-7, Atlantic Boulevard and US-441/SR-7, Oakland Park Boulevard and US-441/SR-7, Broward Boulevard US-441/SR-7, Stirling Road and US-441/SR-7, Hallandale Beach Boulevard and US-441/SR-7, and Golden Glades Interchange. Route 441 Breeze operates with approximately 25-minute headways during the P.M. peak period.

Existing Community Shuttle Transit Service

- Dania Beach West Route operates on Griffin Road linking Dania Beach City Hall and Seminole Hard Rock Hotel and Casino. It makes stops at Dania Beach City Hall, NW 1st Street and NW 14th Avenue, Stirling Road and Complex Pickup, Oakwood Square and K-Mart, Park Road and SW 55th Street, Fort Lauderdale-Hollywood International Airport Tri-Rail Station, Griffin Road and SW 31st Avenue Publix, Hard Rock Casino and SW 54th Court/Luck Street, and Park Road and SW 55th Street.

Planned Mass Transit Routes

- BCT Local Route Griffin is planned to operate on Griffin Road within the vicinity of the project. This route is expected to be implemented in 2026.

- BCT Rapid Bus Route is planned to operate on US-441/SR-7 within the vicinity of the project. This route is expected to be implemented in 2021.

The route information described above is provided in **Exhibit J**.

2. Describe how the proposed amendment furthers or supports mass transit use.

It is anticipated that the proposed development will support mass transit use as it is located within ¼ mile of three (3) existing BCT bus routes, one (1) existing community shuttle route, and two (2) proposed BCT bus routes. It is expected that a portion of residents and guests will choose to use public transit to and from the proposed redevelopment.

3. Correspondence from transit provider verifying the information submitted as part of the application on items 1-2 above. Correspondence must contain name, position and contact information of party providing verification.

A copy of correspondence with BCT is presented as **Exhibit K.**

H. Public Education Analysis

1. Public School Impact Application (School Consistency Review Report)

See **Exhibit L** for a copy of the School Consistency Review Report (dated July 8, 2020) received from the School Board of Broward County Facility Planning and Real Estate Department.

2. The associated fee in the form of a check made payable to the SBBC.

The Public School Impact Application and check payment were submitted to the School Board of Broward County. Please see **Exhibit L** for a copy of the School Consistency Review Report (dated July 8, 2020) received from the School Board of Broward County Facility Planning and Real Estate Department.

6. ANALYSIS OF NATURAL AND HISTORIC RESOURCES

A. Historic sites or districts on the National Register of Historic Places or locally designated historic sites.

A review of the Records of the Florida Department of State, Division of Historical Resources, State Historic Preservation Officer (SHPO), and the Broward County Historical Commission indicates no historic sites listed with the National Register of Historic Places (NRHP) are located within the amendment site.

The South New River Canal (Site ID BD04153), which is just north of the subject property, is eligible for listing with the NHRP. However, the proposed plan amendment would not alter the NRHP-eligible resource. Correspondence with SHPO regarding this project is attached as **Exhibit M**.

B. Archaeological sites listed on the Florida Master Site File

A review of the Records of the Florida Master Site File by the Department of State, Division of Historical Resources, SHPO indicates there are no archeological sites located within or adjacent to the amendment site.

C. Wetlands

Field reconnaissance was conducted on May 27, 2020 and no wetlands were present within the amendment site. There was one surface water (Florida Land Use, Cover and Forms Classification System (FLUCFCS) Code 510: Streams and Waterways) present within the center portion of the site. The shoreline along the northern project boundary consists of a concrete bag revetment. While no wetland vegetation was identified along the shoreline, a single white mangrove (Laguncularia racemosa) was observed growing out of the revetment. A FLUCFCS Map depicting the surface water and other land uses is attached as **Exhibit N.**

D. Local Areas of Particular Concern as identified within the Broward County Land Use Plan

The amendment site is not within an area designated as a Local Area of Particular Concern by the Broward County Land Use Plan.

E. Priority Planning Area map and Broward County Land Use Plan Policy 2.21.1 regarding sea level rise

The amendment site is not within a Priority Planning Area for sea level rise.

F. "Endangered" or "threatened species" or "species of special concern" or "commercially exploited" as per the Florida Fish and Wildlife Conservation Commission (fauna), the U.S. Fish and Wildlife Service (flora and fauna), or the Florida Department of Agriculture and Consumer Services (fauna). If yes, identify the species and show the habitat location on a map.

Based on a review of the Florida Natural Areas Inventory (FNAI) Biodiversity Matrix, there is one documented-historic occurrence of listed species on or near this amendment site: a manatee aggregation area (see **Exhibit O** – FNAI Report). However, upon further review of the US Army Corps of Engineers (USACE) Manatee Maps (2013), the warm water aggregation area is about 0.50 miles to the northeast of the amendment site (see **Exhibit P** – USACE Manatee Map for Broward County).

A review of Florida Fish and Wildlife Conservation Commission (FWC) bald eagle nests and wading bird rookeries showed no documented nests or rookeries within 0.25 miles from the site. Lastly, no listed species were observed onsite during the field reconnaissance. Wildlife species observed during field reconnaissance included green iguana (*Iguana iguana*), northern mockingbird (*Mimus polyglottos*), loggerhead shrike (*Lanius ludovicianus*), and mourning dove (*Zenaida macroura*).

G. Plants listed in the Regulated Plant Index for protection by the Florida Department of Agriculture and Consumer Services

There is no evidence to date of any plant species listed on the index being located on the amendment site. Additionally, there is no native habitat onsite which could support listed plant species.

H. Wellfields – indicate whether the amendment is located within a wellfield protection zone of influence as defined by Broward County Code, Chapter 27, Article 13 "Wellfield Protection." If so, specify the affected zone and any provisions which will be made to protect the wellfield.

The amendment site is not located within a Wellfield Protection Zone.

I. Soils – describe whether the amendment will require the alteration of soil conditions or topography. If so, describe what management practices will be used to protect or mitigate the area's natural features.

Development resulting from this amendment will not require the alteration of soil conditions or topography other than typical construction activity. No special soil conditions exist on site that would affect the land development activity. A section of the NRCS *Soil Survey of Broward County, East Part, Florida (1984)* Soils Map is attached as **Exhibit Q.**

J. Beach Access – Indicate if the amendment site fronts the ocean or would impact access to public beaches. If so, describe how public beach access will be addressed.

The amendment site does not front the ocean or have access to public beaches.

7. AFFORDABLE HOUSING

Describe how the local government is addressing Broward County Land Use Plan Policy 2.16.2 consistent with Article 5 of this Document.

The local government has established a requirement that all proposed amendments shall conform to Broward County Land Use Plan Policy 2.16.2 for affordable housing. The multi-family use includes a minimum of fifteen percent (15%) of affordable housing units income restricted for a minimum of thirty years (30) for individuals with a household income not exceeding one hundred-twenty percent (120%) of the Broward County Area Median Income.

8. LAND USE COMPATIBILITY

Describe how the amendment is consistent with existing and planned future land uses in the area (including adjacent municipalities and/or county jurisdictions). Identify specific land development code provisions or other measures that have or will be utilized to ensure land use compatibility.

The Project is currently designated Low-Medium (10) Residential and is compatible with the adjacent uses. The proposed land use is compatible with the surrounding uses depicted in the table below (Table 19) based on the policies identified below in Section 12. Although not located within a defined CRA, this area is ripe for redevelopment and the development program advances the goals of the City's Future Land Use (FLU) element. As previously noted, the project site is underutilized and the proposed request would facilitate redevelopment of the property with a mixed-use project that better utilizes the existing public infrastructure.

TABLE 19: SURROUNDING LAND USES

	Land Use – City	Land Use - County	Existing Site Use
North	N/A – County	Electrical Generation Facilities	Broward County Electrical Generation Facility
South	Transit Oriented Corridor City of Hollywood	Activity Center	Mixed-use Development (Neighborhood Retail & Residential)
West	B-2 Community Business City of Davie	Activity Center	Commercial / Retail
East	I-G Industrial City of Dania Beach	Industrial	Light Industrial

9. HURRICANE EVACUATION ANALYSIS

(Required for those land use plan amendments located in a hurricane evacuation zone as identified by the Broward County Emergency Management Division).

Provide a hurricane evacuation analysis based on the proposed amendment, considering the number of permanent and seasonal residential dwelling units (including special residential facilities) requiring evacuation, availability of hurricane shelter spaces, and evacuation routes and clearance times. The hurricane evacuation analysis shall be based on the best available data/modeling techniques as identified by the Broward County Emergency Management Division.

This amendment site is not located in an identified Hurricane Evacuation Zone. See **Exhibit R.**

10. REDEVELOPMENT ANALYSIS

Indicate if the amendment is located in an identified redevelopment area (i.e., Community Redevelopment Agency, Community Development Block Grant). If so, describe how the amendment will facilitate redevelopment and promote approved redevelopment plans.

This amendment site is not located in an identified community redevelopment area or part of a Community Development Block Grant (CDBG).

11. INTERGOVERNMENTAL COORDINATION

Indicate whether the proposed amendment site is adjacent to other local governments. If so, please provide additional copies for the notification and/or review by adjacent local governments.

The amendment site is adjacent to the City of Hollywood. The development plan incorporates the land within the City of Hollywood and the respective development elements within the City of Hollywood will be reviewed by the City of Hollywood's respective boards and commission. The development proposed within Hollywood includes ±230 hotel rooms and ±9,000 SF of retail.

12. CONSISTENCY WITH HIGHLIGHTED REGIONAL ISSUES AND POLICIES OF THE BROWARD COUNTY LAND USE PLAN

In this section, we will address how the re-designation of the Property from Low-Medium (10) Residential to Irregular Residential Density (50 du/ac) in the City, and Low-Medium (10) Residential to High (50) Residential in the County will be consistent with, and in furtherance of, the BrowardNext County Land Use Plan and the City's Future Land Use Element. With respect to the County's Land Use Plan, the re-designation is consistent with the following strategies, goals, objectives and policies of the County's Land Use Plan.

Consistency with County's Land Use Plan:

The re-designation of the Property to High (50) Residential on the County's Future Land Use Map is consistent with the following Strategic Goals:

STRATEGY TR-1: Prioritize new development and redevelopment to existing and planned downtowns and major transit corridors and transit hubs.

Strategy TR-1 is underscored by the recognition that "Broward County must efficiently accommodate population and economic growth…." Efficiently accommodating population and economic growth requires that the County approve land use re-designations that will allow people to live, work and play within the same area. The amendment project site is proposed to be High (50) Residential with a development program to redevelop an underutilized property with a singular and limited use into a mixed-use development incorporating and integrating a mix of retail, office, hotel and supporting

residential uses at densities supportive of accommodating population and economic growth. The integration of retail, office, and residential uses creates the opportunity for residents to live and work in the same property and creating a supportive economic community by having consumers in close proximity to consumer goods and services. The project design also includes shared access, multi-modal mobility options and pedestrian friendly promenades. The re-designation of the Property therefore furthers Strategy TR-1 by providing for new development that efficiently accommodates population and economic growth.

STRATEGY MM-2: Recognize and address the transportation and housing connection.

Strategy MM-2 acknowledges that the "two biggest household expenses are housing costs and transportation costs" and seeks to alleviate those expenses. As noted in Strategy MM-2, housing costs are composed of mortgages, rents, insurance and property taxes while transportation costs include car payments, fuel, insurance and maintenance costs. As demonstrated by the proposed mixed-use development of the Property will incorporate retail, office, hotel and residential uses – including 275 multifamily units, 230 hotel keys (with ancillary spaces), and over 9,000 square feet of retail – within one unified development plan. The residential component will be fully integrated to the development and will provide for convenient pedestrian access to the commercial uses on the Property. In addition, to further reduce transportation costs and to further the use of mass transit, the development will be incorporating bicycle facilities for residents and designated spaces for car sharing services.

The proposed re-designation will also seek to reduce housing costs by providing a set-aside for affordable housing to "Eligible persons" and "eligible households" as that term is defined in Section 420.9071 of the Florida Statutes, 2019. In particular, the development will set aside a certain number of affordable units for households that make up to 120 percent of the Area Median Income in and for Broward County.

By providing for a mixed use residential development and incorporating affordable units, the re-designation of the Property is clearly in furtherance of Strategy MM-2.

STRATEGY EP-3: Preserve and protect Broward County's natural environment through County and local environmental regulatory programs and well-planned patterns of growth and development.

One of the core implementation strategies of Strategy EP-3 is to promote the use of alternative modes of transportation and alternative fuels to reduce the negative impacts of exhaust fumes on air quality. The development of a mixed use community, which will feature retail, hotel and residential uses will incentivize pedestrianism and will make the use of a car inefficient and unnecessary. By discouraging dependence on automobiles, the Applicant is furthering Strategy EP-3.

STRATEGY EP-4: Provide recreation and open space areas which serve the diverse interests of both residents and visitors and that are compatible with the tropical and resort character of Broward County.

The re-designation of the Property will further Strategy EP-4 by providing for a net increase of 0.22 acres of common open space as detailed above. Providing for the net increase of common open space will enhance a critical component that will further the quality of life of the development's residents while

also providing more common open space opportunities for Broward County residents.

STRATEGY AH-1: Support sustainable funding sources to develop and/or rehabilitate affordable housing.

The re-designation of the Property will include a set aside for affordable housing as provided in Florida Statute, Section 420.9071 and as defined in Strategy AH-1, which provides that affordable housing is housing that is affordable to households that earn 120 percent or less of the County's AMI. Here, the Applicant is committing to setting aside, on a voluntary basis, a certain number of units as affordable housing. The most sustainable and replicable means of funding affordable housing is to have developers, such as the applicant, voluntarily set aside units for affordable housing. Accordingly, the re-designation is in furtherance of Strategy AH-1.

STRATEGY AH-4: Municipalities should adopt a comprehensive strategy to ensure a sufficient supply of affordable housing to help meet the needs of our population and economy.

The re-designation of the Property will include a set aside for affordable housing as provided in Florida Statute, Section 420.9071 and as defined in Strategy AH-1, which provides that affordable housing is housing that is affordable to households that earn 120 percent or less of the County's AMI. To assist with the affordable housing needs in Broward County, the development is committed to provide at least 15% (41 units) of the proposed 275 multi-family dwelling units to provide housing that is affordable to households that make up to 120% of the Area Median Income. Thus, the re-designation of the Property is in furtherance of Strategy AH4.

Consistency with City of Dania Beach Comprehensive Plan:

The re-designation of the Property to Irregular Residential Density (50) on the City's Future Land Use Map is consistent with the following objectives and policies:

Future Land Use Element

Policy 1.1 Provide for a mix of residential communities which will promote a diverse population and a healthy environment.

Policy 5. 1 Encourage development to enhance the tax base of the community.

Housing Element

Objective I – Assist the private sector with the provision of 450 additional housing units between 1995 and 2005 and 1,073 total units by between 2005 and 2010. The housing will be of various types and affordability to existing and anticipated population growth.

Objective IV – The City shall reduce the deficit in the supply of affordable housing units by at least 5 units by the year 2000, by at least 25 units by the year 2005, and by at least 50 units by the year 2010.

Policy 4.3 Support programs designed to increase the income levels of low income households.

Policy 11.6 Promote mixed-use development that provides an array of housing types along transit

corridors, including the establishment of a Local Activity Center (LAC) future land use designation, the development of mixed use zoning districts, and the allocation of flex units to mixed-use projects.

Transportation Element

Objective I – On an annual basis, through planning and land use regulation, the City shall continue to protect, maintain and improve the functional relationship between the multi-modal transportation system and the future land use map to ensure that the transportation system is convenient and meets the needs of existing and future residents and land use patterns.

Policy 1.11 Support Broward County Transit's efforts to encourage improved access to public transit through the provision of bicycle facilities, such as storage lockers, at appropriate locations, as new development occurs.

Policy 2.4 Encourage joint use of driveways and parking areas, and encourage the use of cross access easements among adjoining property owners to allow circulation between sites and reduce the number of vehicular access points along roadways. 9J-5.019(4) (c)7.

Objective III – On an annual basis, through participation with the MPO, FDOT, Broward County, and other entities, support and encourage multi-jurisdictional efforts that help ensure that the multi-modal transportation system is properly designed to support the development and redevelopment of the City while it experiences orderly growth and sustains the environment.

Objective V – The City shall assure, through planning, land use regulation, intergovernmental coordination, or land acquisition, that transportation improvements are located so as to not disrupt or adversely impact the City's residential communities or adjacent environmentally sensitive lands. 9J-5.019(4) (b) 3.

13. ADDITIONAL SUPPORT DOCUMENT

A. Other support documents or summary of support documents on which the proposed amendment is based.

Not applicable.

B. Any proposed voluntary mitigation or draft agreements.

Not applicable.

14. PLAN AMENDMENT COPIES

A. 3 hard copies and 10 digital copies (13 copies total) for the BCPC (Please include additional copies, if amendment site is adjacent to other municipalities and/or county jurisdictions). Additional copies may be requested by the Planning Council Executive Director after the initial application submittal.

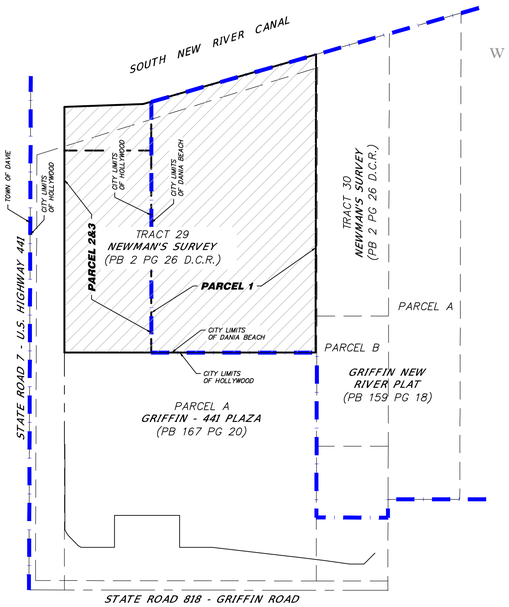
To be provided with transmittal.

B. If requesting concurrent transmittal to DEO, 1 hard copy and 10 digital copies (11 copies total), as required by DEO, of the corresponding local land use plan amendment application, including transmittal letter from municipality to DEO.

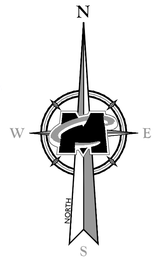
To be provided with transmittal.

Exhibit A

Survey with Legal Description



LOCATION MAP
Not to Scale



LEGAL DESCRIPTION:

PARCEL 1

A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMAN'S SURVEY, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 2, PAGE 26 OF THE PUBLIC RECORDS OF MIAMI–DADE COUNTY, FLORIDA MORE FULLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE EAST RIGHT–OF–WAY LINE OF STATE ROAD NO. 7 WITH THE SOUTH LINE OF SAID SECTION 25; THENCE NORTHERLY ALONG THE SAID EAST RIGHT–OF–WAY, NORTH 02°06"55" EAST, 1111.80 FEET TO THE INTERSECTION OF THE EAST RIGHT–OF–WAY LINE OF STATE ROAD NO. 7 AND THE SOUTH RIGHT–OF–WAY LINE OF THE SOUTH NEW RIVER CANAL EASEMENT; THENCE EASTERLY ALONG SAID SOUTH RIGHT–OF–WAY, NORTH 90°00'00" EAST, 181.59 FEET; THENCE NORTH 76°04'42" EAST, 19.28 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 76°04'42" EAST, 394.91 FEET; THENCE SOUTH 02°12'46" WEST 686.55 FEET; THENCE NORTH 87°51'58" WEST, 378.37 FEET; THENCE NORTH 02°06'55" EAST, 577.47 FEET TO THE POINT OF BEGINNING. SAID LANDS SITUATE, LYING AND BEING IN BROWARD COUNTY, FLORIDA. SAID PARCEL CONTAINING 239,463 S.F. (5.5 ACRES ±)

PARCEL IDENTIFICATION NUMBER: 504125010520

TOGETHER WITH

PARCEL 2 AND 3

A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMAN'S SURVEY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 2, PAGE 26, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA, MORE FULLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE EAST RIGHT–OF–WAY LINE OF STATE ROAD NO. 7 WITH THE SOUTH LINE OF SAID SECTION 25; THENCE NORTHERLY ALONG THE SAID EAST RIGHT–OF–WAY NORTH 02° 06' 55" EAST A DISTANCE OF 546.50 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTHERLY, NORTH 02° 06' 55" EAST 565.30 FEET THE INTERSECTION OF THE EAST RIGHT–OF–WAY LINE OF STATE ROAD NO.7 AND THE SOUTH RIGHT–OF–WAY LINE OF THE SOUTH NEW RIVER CANAL EASEMENT; THENCE EASTERLY ALONG SAID SOUTH RIGHT–OF–WAY NORTH 90° 00' 00" EAST, 181.59 FEET; THENCE NORTH 76° 04' 42" EAST, 19.28 FEET; THENCE SOUTH 02° 06' 55" WEST 577.33 FEET; THENCE WESTERLY, NORTH 87° 53' 04" WEST, 200.00 FEET TO THE POINT OF BEGINNING. SAID LANDS SITUATE, LYING AND BEING IN BROWARD COUNTY, FLORIDA. SAID PARCEL CONTAINING 113,840 S.F. (2.6 ACRES ±)

PARCEL IDENTIFICATION NUMBER: 504125010524 & 504125010528

RESTRICTIONS / EASEMENTS:

THE EASEMENTS, ENCUMBRANCES AND RESTRICTIONS EVIDENCED BY RECORDED DOCUMENTS AND/OR OTHER TITLE SEARCH REPORT PROVIDED TO THE SURVEYOR AS NOTED IN RESTRICTIONS/EASEMENTS, OF THE ATTORNEYS' TITLE FUND SERVICES, LLC, PROVIDE FOR: CLARK & MUNEY, PLLC, FUND FILE NUMBER: 861926 DATED MARCH 18, 2020, AS TO THE EXTENT THEY CAN BE LOCATED ARE SHOWN HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY AS FOLLOWS:

ITEM 2) ALL MATTERS CONTAINED ON THE PLAT OF NEWMAN'S SURVEY, AS RECORDED IN PLAT BOOK 2, PAGE 26, PUBLIC RECORDS OF MIAMI–DADE COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). THERE IS NOT RESTRICTIONS AND/OR EASEMENTS AS SHOWN ON THE FACE OF THE PLAT, HOWEVER THERE ARE RIGHT OF WAY DEDICATION AS SHOWN ON SAID PLAT THAT AFFECTS THE SUBJECT PROPERTY AND IT IS SHOWN HEREON.

ITEM 3) RESERVATIONS AS SET FORTH IN THE DEED FROM THE TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA RECORDED IN DEED BOOK 7, PAGE 576, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; HOWEVER, THE RIGHT OF ENTRY AND EXPLORATION ASSOCIATED WITH THE OIL AND MINERAL RESERVATION HAS BEEN RELEASED PURSUANT TO SEC. 270.11, F.S. (PARCELS 1, 2 AND 3). DOCUMENT PROVIDED TO THE SURVEYOR IS NOT READABLE.

ITEM 4) RESERVATIONS AS SET FORTH IN THE DEED FROM THE TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA RECORDED IN DEED BOOK 12, PAGE 508, WHICH WERE PARTIALLY RELEASED BY DEED BOOK 802, PAGE 467, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; HOWEVER, THE RIGHT OF ENTRY AND EXPLORATION ASSOCIATED WITH THE OIL AND MINERAL RESERVATION HAS BEEN RELEASED PURSUANT TO SEC. 270.11, F.S. (PARCELS 1, 2 AND 3). DOCUMENT PROVIDED TO THE SURVEYOR IS NOT READABLE.

ITEM 5) CANAL EASEMENT CONTAINED IN WARRANTY DEED RECORDED IN O.R. BOOK 2930, PAGE 28, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL AND IT IS PLOTTED HEREON.

ITEM 6) EASEMENT IN FAVOR OF CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT RECORDED IN O.R. BOOK 2986, PAGE 809, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL AND IT IS PLOTTED HEREON.

ITEM 7) EASEMENT IN FAVOR OF CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT RECORDED IN O.R. BOOK 2986, PAGE 811, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL AND IT IS PLOTTED HEREON.

ITEM 8) RESOLUTION OF THE CENTRAL BROWARD DRAINAGE DISTRICT RECORDED IN O.R. BOOK 3438, PAGE 60, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS NOT PLOTABLE.

ITEM 9) LICENSE AGREEMENT WITH BROWARD COUNTY RECORDED IN O.R. BOOK 4492, PAGE 777, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTABLE.

ITEM 10) BROWARD COUNTY ORDINANCE NO. 84–16 (Z) RECORDED IN O.R. BOOK 11676, PAGE 400, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). THE ZONING DISTRICT WITHIN BROWARD COUNTY, BE AND HEREBY ARE CHANGED BY REZONING THE SUBJECT PARCEL FROM T–1 MOBILE HOME PARK TO B–3 GENERAL BUSINESS, SAID DOCUMENT AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTABLE.

ITEM 11) TOWN OF DAVIE ORDINANCE NO. 85–97 RECORDED IN O.R. BOOK 13068, PAGE 486, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). DO NOT AFFECT THE SUBJECT PARCEL.

ITEM 12) EASEMENT IN FAVOR OF FLORIDA POWER & LIGHT COMPANY RECORDED IN O.R. BOOK 17127, PAGE 165, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER THE SKETCH AS SHOWN ON EXHIBIT A DOES NOT SHOW ENOUGH DIMENSIONS TO PLOT THE EASEMENT.

ITEM 13) CABLE TELEVISION INSTALLATION AND WIRING AGREEMENT WITH CABLE TV FUND 14–A/B VENTURE RECORDED IN O.R. BOOK 17453, PAGE 243, TOGETHER WITH AND AS AFFECTED BY RELEASE OF EASEMENT RECORDED IN O.R. BOOK 20804, PAGE 660, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTABLE.

ITEM 14) EASEMENT AGREEMENT BY AND BETWEEN SAM B. NEVEL, TRUSTEE, AND RAMGOH SALES COMPANY, INC. RECORDED IN O.R. BOOK 28676, PAGE 655, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS PARCEL A "GRIFFIN – 441 PLAZA", AS SHOWN ON PLAT BOOK 167 AT PAGE 20 FOR THE BENEFIT OF THE SUBJECT PARCEL, AND IT IS PLOTTED HEREON.

ITEM 15) MEMORANDUM OF LEASE FROM RAMGOH SALES, INC., LESSOR, TO NATIONAL ADVERTISING COMPANY, LESSEE, RECORDED IN O.R. BOOK 30829, PAGE 930, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS NOT A SURVEY MATTER.

ITEM 16) TERMS AND CONDITIONS OF THE NOTICE OF PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT RECORDED IN O.R. BOOK 32471, PAGE 1098, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS NOT A SURVEY MATTER.

ITEM 17) ORDINANCE NO. 2005–53 RECORDED IN O.R. BOOK 41179, PAGE 1696, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. DOES NOT AFFECTS THE SUBJECT PARCEL, HOWEVER IS NOT A SURVEY MATTER.

ITEM 18) COURTESY NOTICE OF SUPER PRIORITY STATUS OF CITY OF DANIA BEACH CODE ENFORCEMENT LIENS RECORDED IN O.R. BOOK 47083, PAGE 1671, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTTABLE.

ITEM 19) UTILITY EASEMENT AND LIFT STATION AGREEMENT RECORDED IN O.R. BOOK 47569, PAGE 1538, ASSIGNMENT OF UTILITY EASEMENT AND LIFT STATION AGREEMENT RECORDED IN INSTRUMENT NUMBER 116276435 AND 116276436, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTTABLE.

ITEM 20) NON–EXCLUSIVE ASSIGNMENT OF EASEMENT AGREEMENT RECORDED IN O.R. BOOK 47569, PAGE 1545, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTTABLE.

ITEM 21) ACCESS EASEMENT AND AGREEMENT RECORDED IN O.R. BOOK 47569, PAGE 1551, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS PARCEL 2 AND 3 FOR THE BENEFIT OF PARCEL 1, AND IT IS PLOTTED HEREON.

ITEM 22) RIGHT OF WAY OCCUPANCY NOTICE OF PERMIT RECORDED IN INSTRUMENT NUMBER 113594665, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE NAD NOT PLOTTABLE.

SURVEYOR'S NOTES:

1. THE LEGAL DESCRIPTION OF THE SUBJECT PROPERTY IS THE SAME AS THE TITLE SEARCH REPORT AS PROVIDED ON FUND FILE NUMBER: 861926.

2. BEARING ARE BASED ON THE EAST RIGHT OF S.R.7 U.S. HIGHWAY 441 AS BEARS NORTH 01°51'43" WEST.

3. THIS SKETCH OF BOUNDARY SURVEY DOES NOT REPRESENT A MEAN HIGH WATER LINE SURVEY AS DEFINED UNDER CHAPTER 5J–17.050(G) FLORIDA ADMINISTRATIVE CODE OR DOES THIS SURVEY SUPPORT TO DETERMINE THE NATURE AND/OR LIMIT OF OWNERSHIP INTERESTS TO THE SUBMERGED LANDS ADJACENT TO THE SUBJECT PROPERTY. THE APPROXIMATELY SHORE LINE AS SHOWN HEREON REPRESENTS THE TOP OF BANK OF THE EXISTING WATERWAY AND NOT NECESSARILY THE SAFE UPLAND LINE AS DEFINED IN SAID CODE. THE MEAN HIGH WATER LINE AS SHOWN HEREON IS BASED ON ELEVATIONS TAKEN IN THE FIELD ON 02–19–2020, ELEVATION 0.37' NAVD88 BASED ON A TIDAL WATER SURVEY PROCEDURAL APPROVAL LETTER FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED 02–12–2020. THERE MAY BE ADDITIONAL SURVEY REQUIREMENTS NECESSARY TO ADDRESS THOSE SPECIFIC PERMIT PROCESSES IN ADDITION TO THE MEAN HIGH WATER LINE SURVEY.

4. ELEVATIONS ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD 88). ELEVATIONS ARE BASED ON FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 4 BRIDGE MONUMENTATION (BRIDGE NO. 860627) BENCHMARK NO. 860627B THE SAME BEING AN ALUMINUM DISK LOCATED 32' EAST OF EAST EDGE OF PAVEMENT OF SR 7 AND 522' NORTH OF NORTH LINE SAID BRIDGE, ELEVATION 5.05' AND BENCHMARK NO. 8696 X 182 RESET THE SAME BEING AN ALUMINUM DISK LOCATED 111' WEST OF EAST EDGE OF PAVEMENT OF SR 7 AND ALIGN WITH THE NORTH LINE OF SAID BRIDGE ELEVATION 8.65'.

5. THE ACCURACY OBTAINED FOR ALL HORIZONTAL CONTROL MEASUREMENTS AND OFFICE CALCULATIONS OF CLOSED GEOMETRIC FIGURES, MEETS OR EXCEEDS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS AS CONTAINED IN CHAPTER 5J–17.051 OF 1 FOOT IN 7,500 FEET FOR SUBURBAN AREAS.

6. THERE ARE NO DELINEATION OF THE PARKING SPACES WITHIN THE SURVEY AREA.

7. ALL UTILITIES SERVING THE PROPERTY ENTER THROUGH ADJOINING PUBLIC STREETS AND/OR EASEMENTS OF RECORD.

7. THERE ARE NO ENCROACHMENTS ONTO ADJOINING PREMISES, STREETS OR ALLEYS BY ANY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS LOCATED ON THE PROPERTY, AND NO ENCROACHMENTS ONTO THE PROPERTY BY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS SITUATED ON ADJOINING PREMISES OTHER THAN SHOWN HEREON.

8. TOTAL GROSS LAND AREA IS 353,303 SQUARE FEET, 8.1 ACRES ±.

9. RIGHT OF WAY AS SHOWN HEREON IS BASED ON THE RECORDED PLAT AND RIGHT OF WAY MAP FOR STATE ROAD No. 7 SECTION No. 8610 (108–202). ANY NOTORIOUS EVIDENCE OF OCCUPATION AND/OR USE OF THE DESCRIBED PARCEL FOR RIGHT–OF–WAY, INGRESS OR EGRESS ARE SHOWN ON THIS SURVEY DRAWING. HOWEVER, THIS SURVEY DOES NOT PURPORT TO REFLECT ANY RECORDED INSTRUMENTS OR RIGHT–OF–WAY OTHER THAN AS SHOWN ON THE UNDERLYING RECORD PLAT OR AS STATED IN THE LEGAL DESCRIPTION OR AS NOTED IN THE RECORDED DOCUMENTS PROVIDED TO THE SURVEYOR.

10. A COMPARISON BETWEEN MEASURED (M), PLAT (P), DEED (D) AND CALCULATED (C) DIMENSIONS IS DELINEATED HEREON. MEASURED DIMENSIONS (M) ARE BASED DIRECTLY ON THE RECOVERED MONUMENTATION. DEED DIMENSIONS IS BASED ON THE LEGAL DESCRIPTION. PLATTED DIMENSIONS ARE BASED ON RECORDED PLAT 167 AT PAGE 20 OF THE PUBLIC RECORDS OF BROWARD COUNTY.

11. THE SUBJECT PROPERTY LIES WITHIN TWO FLOOD AREAS. THAT PORTION OF THE SUBJECT PROPERTY, LYING WITHIN THE WATERWAY, LIES WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THE NATIONAL FLOOD INSURANCE RATE MAP FOR CITY OF DANIA BEACH, AND CITY OF HOLLYWOOD, FLORIDA PANEL No. 12011C554H, COMMUNITY No. 120034 AND 125113, BEARING AN EFFECTIVE AND REVISED DATE OF AUGUST 18, 2014, DELINEATES THAT PORTION OF THE HEREIN DESCRIBED LAND LYING WITHIN THE SFHA TO BE SITUATED WITHIN ZONE AE, BASE FLOOD ELEVATION 4 FEET THE AREA WEST AND SOUTH OF THE WATERWAY LIES WITHIN THE SFHA TO BE SITUATED WITHIN ZONE AH, BASE FLOOD ELEVATION 5, THE BALANCE OF THE HEREIN DESCRIBED LANDS LIES WITHIN TWO ZONE X, AN AREA OUTSIDE OF THE 2% ANNUAL CHANCE FLOODPLAIN AND AN AREA OF THE 0.2% ANNUAL CHANGE FLOOD.

12. THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1/30 & 1/40 OR SMALLER.

13. NO FIELD DELINEATION OF WETLANDS WAS CONDUCTED.

14. THERE IS NO VISIBLE EVIDENCE OF EARTH MOVING WORK AND BUILDING CONSTRUCTION WITHIN THE SITE.

15. THE PROPERTY HAS DIRECT VEHICULAR AND PEDESTRIAN ACCESS TO SR7 U.S. HIGHWAY 441.

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REV	DATE	DRAWN BY	DESCRIPTION
1	03/23/20	ALR	REVISED PER TITLE SEARCH REPORT FILE NUMBER: 861926.

AIMARA DIAZ LA ROSA
FLORIDA PROFESSIONAL
SURVEYOR & MAPPER - LICENSE NUMBER: LS6796

PORTION OF TRACT 29

FOR

CORPORATE COACHES INC & CCI PROPERTIES 1 LLC

NEWMAN'S SURVEY
(PLAT BOOK 2 PAGE 26)
DANIA BEACH/HOLLYWOOD
BROWARD COUNTY
FLORIDA

MIAMI OFFICE
8290 NW 64th Street
Miami, FL 33166
Phone: 305.597.9701
Fax: 305.597.9702

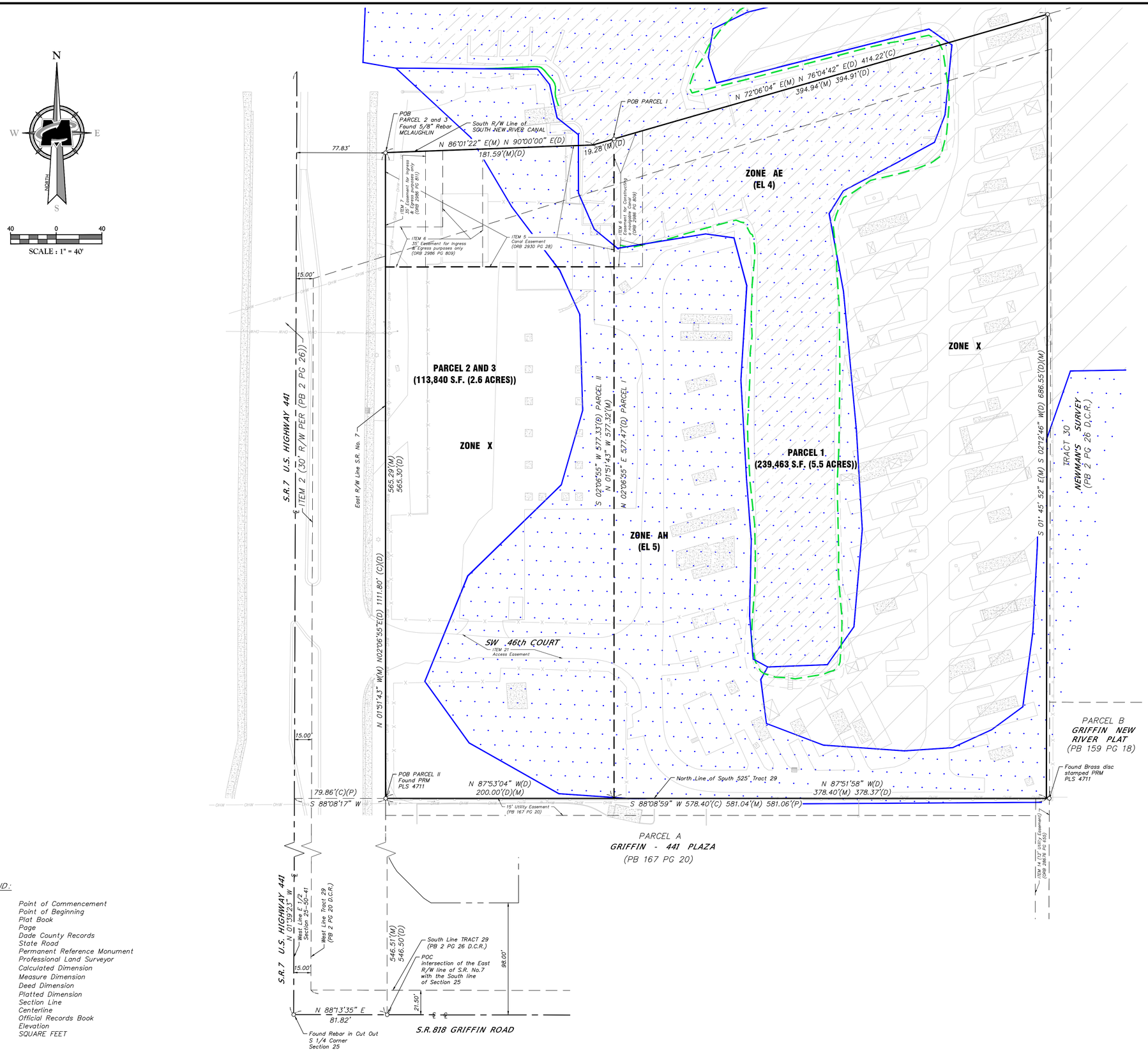
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	02/18/2020	ALR	ALR
PROJECT NUMBER: 19003639A	DRAWING NAME: V-SURV		

SHEET TITLE:
ALTA/NSPS
LAND TITLE SURVEY

SHEET NUMBER:
1 of 3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

3639A - Dania/Hollywood - Hess Real Estate Group/Survey/Acad/V-SURV/Acad/V-XXX-SURVEY By: ADIAZ



LEGEND:

POC	Point of Commencement
POB	Point of Beginning
PB	Plat Book
PG	Page
D.C.R.	Dade County Records
S.R.	State Road
PRM	Permanent Reference Monument
PLS	Professional Land Surveyor
(C)	Calculated Dimension
(M)	Measure Dimension
(D)	Deed Dimension
(P)	Platted Dimension
℄	Section Line
℄	Centerline
ORB	Official Records Book
EL	Elevation
S.F.	SQUARE FEET

3839A - Dania-Hollywood - Mesa Real Estate Group/Survey/dwg/V-XX-SURVEY (2) By: ADIAZ

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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	02/21/20	ALR	REVISED PER TITLE SEARCH REPORT FILE NUMBER: 861926.

AIMARA DIAZ LA ROSA
FLORIDA PROFESSIONAL
SURVEYOR & MAPPER - LICENSE NUMBER: LS6796

PORTION OF TRACT 29

FOR

CORPORATE COACHES INC & CCI PROPERTIES 1 LLC

NEWMAN'S SURVEY
(PLAT BOOK 2 PAGE 26)
DANIA
BEACH/HOLLYWOOD
BROWARD COUNTY
FLORIDA

MIAMI OFFICE
8290 NW 64th Street
Miami, FL 33166

Phone: 305.597.9701
Fax: 305.597.9702

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	02/18/2020	ALR	ALR

PROJECT NUMBER:	DRAWING NAME:
19003639A	V-SURV

SHEET TITLE:

ALTA/NSPS
LAND TITLE SURVEY

SHEET NUMBER:

2 of 3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

LEGEND:

PB	Plat Book
PG	Page
D.C.R.	Dade County Records
S.R.	State Road
PRM	Permanent Reference Monument
PLS	Professional Land Surveyor
(C)	Calculated Dimension
(M)	Measure Dimension
(D)	Deed Dimension
(P)	Platted Dimension
$	Section Line
℄	Centerline
MB	Mailbox
CABX	Cable Box
A/C	Air Conditioner
WV	Water Valve
MHS	Sanitary Manhole
COMM	Communication Box
MHE	Electric Manhole
GA	Guy Anchor
ICV	Irrigation Control Valve
WM	Water Meter
EM	Electric Meter
CONC.	Concrete
SWK.	Sidewalk
EB	Electric Box
(E)	Electric Manhole
(S)	Sewer Manhole
	Electric Pole
	Sign
	Light Pole
OHW	Overhead Electric Line
	Guy Anchor
	Tree
	Palm

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REV	DATE	DRAWN BY	DESCRIPTION
1	03/23/20	ALR	REVISED PER TITLE SEARCH REPORT FILE NUMBER: 861926.

AIMARA DIAZ LA ROSA
FLORIDA PROFESSIONAL
SURVEYOR & MAPPER - LICENSE NUMBER: LS6796

PORTION OF TRACT 29

FOR

CORPORATE COACHES INC & CCI PROPERTIES 1 LLC

NEWMAN'S SURVEY
(PLAT BOOK 2 PAGE 26)
DANIA
BEACH/HOLLYWOOD
BROWARD COUNTY
FLORIDA

MIAMI OFFICE
8290 NW 64th Street
Miami, FL 33166
Phone: 305.597.9701
Fax: 305.597.9702

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	02/13/20	MCH	ALR
PROJECT NUMBER: 19003639A		DRAWING NAME: V-SURV (SH2)	

SHEET TITLE:
ALTA/NSPS
LAND TITLE SURVEY

SHEET NUMBER:
3 of 3

3639A - Dania Hollywood - Mega Real Estate Group\Survey\dwg\V-SURV (SH2).dwg\plot By: ADIAZ

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

Exhibit B

Location Map and Proposed Land Use

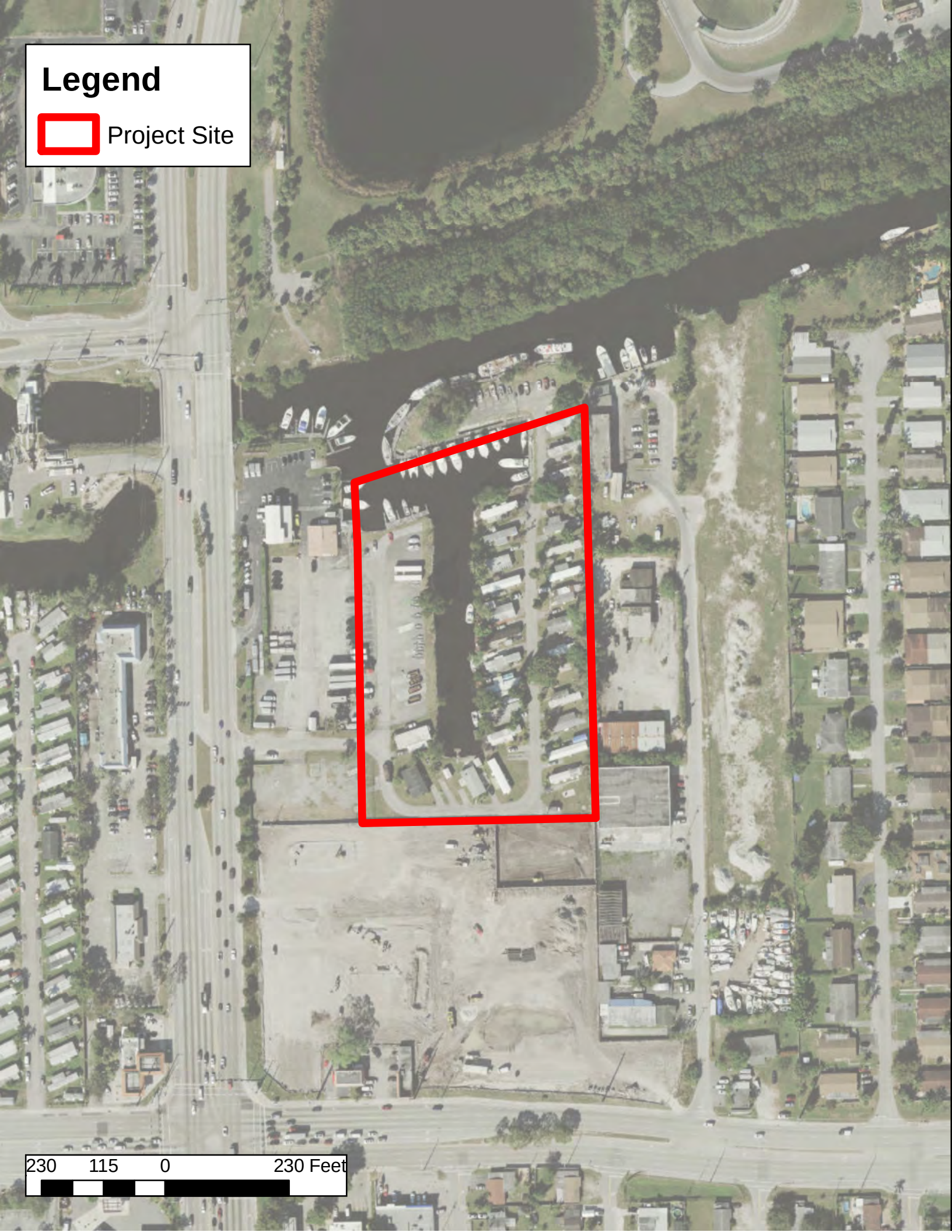

Legend
Project Site
230 115 0 230 Feet

Exhibit C

Map of Current Future Land Use Designations
City and BCLUP

Legend
Project Site
Existing Future Land Use (City)
Low (5) Residential
Low-Medium (10) Residential
Industrial
Water
230 115 0 230 Feet

Legend
Project Site
Existing Future Land Use (County)
Ocean/Waterbodies
Low (5) Residential
Low-Medium (10) Residential
Industrial
Regional Activity Center
Electrical Generation Facilities
230 115 0 230 Feet

Exhibit D

Map of Proposed Future Land Use Designations
City and BCLUP

Legend
Project Site
Proposed Future Land Use (City)
Low (5) Residential
Low-Medium (10) Residential
Irregular Residential Density
Industrial
Water
230 115 0 230 Feet

Legend
Project Site
Proposed Future Land Use (County)
Ocean/Waterbodies
Low (5) Residential
Low-Medium (10) Residential
High (50) Residential
Industrial
Regional Activity Center
Electrical Generation Facilities
230 115 0 230 Feet

Exhibit E

Sanitary Sewer/Potable Water Letter

Public Works Department • Water and Wastewater Services
WATER AND WASTEWATER ENGINEERING DIVISION
2555 West Copans Road • Pompano Beach Florida 33069
PHONE: 954-831-0745 • FAX: 954 831-0798/0925

Our Best. Nothing Less.

June 18, 2020

Botek Thurlow Engineering, Inc.
3409 NW 9th Avenue, Suite 1102
Ft. Lauderdale, FL 33309

RE: ABILITY TO PROVIDE POTABLE WATER & WASTEWATER SERVICE TO: HARBOR LANDINGS
FOLIO NO. 504125010520, 504125010524, 504125010528.

Dear Stephen:

Reference is made to your letter dated May 21st, 2020 (attached), regarding the ability of Broward County Water & Wastewater Services (WWS) to provide potable water and wastewater services to the reference development located within the FT. Lauderdale, FL.

Nothing in this letter reserves capacity for the referenced development or authorizes any construction. This letter is for informational purposes only, and a Utility Connection Permit must be obtained prior to work on WWS facilities. The developer must pay for and construct all improvements required to provide the required level of service for the project.

POTABLE WATER SUPPLY AND TREATMENT

The development will be supplied with potable water treated at the District 3 Water Treatment Plant (3AWTP). It will demand approximately 47,676 (GPD) gallons of potable water per day according to information supplied by Botek Thurlow Engineering, Inc to WWS. WWS has sufficient potable water and plant capacity to provide the service. There is a water distribution system available near the project.

WASTEWATER TREATMENT

Broward County water and Wastewater Services has pipes available for connection, however City of Hollywood City of Hollywood provides treatment. Please contact City of Hollywood for capacity.

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine
www.broward.org

Please contact me at (954) 831-0944 or mjaramillo@broward.org if you have any questions.

Sincerely,

Margarita Jaramillo

Land Development Coordinator

JM/bgb

C: Rolando Nigaglioni, P.E., BCEE, Planning and Development Manager
Jeremy Seiden, P.E., BCEE, PMP
File: W & WW Availability Requests

Botek Thurlow Engineering, Inc.
Civil Engineers

BTE Proj. No. 19-1001 Harbor Landings

May 21, 2020

Message:

This is a request for a letter of availability to supply water and wastewater to a proposed residential development to be constructed on the east side of State Road 7 (441) north of Griffin Road in the cities of Dania Beach and Hollywood within the Broward County Water and Wastewater Services area (District 3A).

Attached is a location map and the property survey. We are preparing preliminary civil engineering plans for site plan approval and a Land Use Plan Amendment.

A private lift station is required as gravity sewer is unavailable directly to the property. The force main will be connected to the existing BCWWS gravity system located in State Road 7 right of way.

The water and fire lines will be served from an on site looped system connected to the water mains also in 441, this system would be turned over to BCWWS.

The anticipated demands for water and sewer are

Residential Units (274 multi family)

274 x 174 GPD per unit (0.707 ERU's per unit)

1 ERU = 246 GPD

Demand = 274 x 174 = 47,676 Gallons Per Day (maximum day)

If you have any questions please call me at (954) 568-0888.

3409 NW 9th Avenue • Suite 1102 • Fort Lauderdale, FL 33309 • p. 954-568-0888, f. 954-568-0757
bte@botekthurlow-eng.com

Exhibit F

Solid Waste Letter

Waste Management Inc. of Florida

8801 NW 91st Street
Medley, FL 33178
Mob. (786) 920-7412
E-MAIL: sgallitano@wm.com

6/17/2020
213.814.8829
CCI Properties 1, LLC
4500 S State Road 7
Ft. Lauderdale, FL 33301

RE: 4695 SW 45th Terrace Ft. Lauderdale, FL 33314

This letter is to confirm that Waste Management will not have any issues servicing the proposed 275 multifamily residential units with waste and/or recycling services at the above location. Should you have any questions please feel free to contact me.

Thank you,
Stephanie Gallitano
Market Sales Manager

Exhibit G

Community Park Inventory

Dania Beach Parks and Recreation Facilities Inventory

Community Parks	Acres
Frost Park	8.55
C.W. Thomas Park Park	6.05
P.j. Meli Aquatic Center Park	12.30
Mini Parks	Acres
Chester Byrd Park	1.80
Frank C. Tootie Adler Park	
Linear Park	1.31
Mullikin Park	0.60
North Side Garden Park (Maleleuca)	0.59
Dania Cove Park	4.70
Mildred V. Jones Park	0.65
Star Centennial Park	0.11
Special Facilities	Acres
I.T. Parker Community Center	20.11
S.W. Community Center	0.53
Tigertail Dog Park	11.90
Tigertail Lake Center	27.40
Griffin Marine Park	1.86
Beach Facilities	Acres
Ocean Park Beach	26.50
Marina	2.87
Total Public Spaces	127.83
Natural Areas	Acres
Dania Salt Marsh	130.00
Total Park and Recreation Areas	257.83

Source: City of Dania Beach Citywide Parks Master Plan, 2019

Exhibit H

Trip Generation

PM PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		GROSS VOLUMES			MULTIMODAL REDUCTION		EXTERNAL TRIPS			INTERNAL CAPTURE		NET NEW EXTERNAL TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS		
		Land Use	ITE Edition	ITE Code	Scale	ITE Units	Percent In	Percent Out	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
GROUP 1	1	Mobile Home Park	10	240	55	du	62%	38%	15	10	25	4.0%	1	14	10	24	0.0%	0	14	10	24	0.0%	0	14	10	24
	2																									
	3																									
	4																									
	5																									
	6																									
	7																									
	8																									
	9																									
	10																									
	11																									
	12																									
	13																									
	14																									
	15																									
		ITE Land Use Code		Rate or Equation				Total:	15	10	25	4.0%	1	14	10	24	0.0%	0	14	10	24	0.0%	0	14	10	24
		240		Y=0.46(X)																						

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		GROSS VOLUMES			MULTIMODAL REDUCTION		EXTERNAL TRIPS			INTERNAL CAPTURE		NET NEW EXTERNAL TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS		
		Land Use	ITE Edition	ITE Code	Scale	ITE Units	Percent In	Percent Out	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
GROUP 2	1	Multifamily (Mid-Rise)	10	221	275	du	61%	39%	71	46	117	4.0%	5	68	44	112	0.0%	0	68	44	112	0.0%	0	68	44	112
	2																									
	3																									
	4																									
	5																									
	6																									
	7																									
	8																									
	9																									
	10																									
	11																									
	12																									
	13																									
	14																									
	15																									
		ITE Land Use Code		Rate or Equation				Total:	71	46	117	4.0%	5	68	44	112	0.0%	0	68	44	112	0.0%	0	68	44	112
		221		LN(Y) = 0.96*LN(X)+-0.63																						

	IN	OUT	TOTAL
NET NEW TRIPS	54	34	88

Exhibit I

Trip Distribution and Assignment

*Project trip distribution based on select zone analysis performed utilizing FSUTMS SERPM 2015/2045

Kimley»Horn

© 2020

Project Trip Distribution
Harbor Landings Redevelopment
Dania Beach, Florida

Exhibit J

Transit Data

For more details on our fares please visit our web site at Broward.org/BCT or call customer service: 954.357.8400.

Hearing-speech impaired/TTY: 954.357.8302

This publication can be made available in alternative formats upon request by contacting 954-357-8400 or TTY 954-357-8302.

BROWARD COUNTY TRANSIT
www.Broward.org/BCT

TRANSIT WATCH

WHEN IT COMES TO OUR SAFETY, WE CAN ALWAYS USE AN EXTRA PAIR OF EYES AND EARS. BE ALERT. CALL 954-357-LOOK (5665). TELL US.

This symbol is used on bus stop signs to indicate accessible bus stops.

PROTECTIONS OF TITLE VI OF THE CIVIL RIGHTS ACT OF 1964 AS AMENDED

Any person(s) or group(s) who believes that they have been subjected to discrimination because of race, color, or national origin, under any transit program or activity provided by Broward County Transit (BCT), may call 954-357-8481 to file a Title VI discrimination complaint or write to Broward County Transit Division, Compliance Manager, 1 N. University Drive, Suite 3100A, Plantation, FL 33324

3,500 copies of this public document were promulgated at a gross cost of $675, or $.084 per copy to inform the public about the Transit Division's schedule and route information. Reprinted 4/17

ROUTE 15
Weekday
Schedule

Effective 1/1/15

Griffin Road to County Line Road, stopping at Fort Lauderdale/Hollywood Airport Tri-Rail Station

MyRide BROWARD.org
Real Time Bus Information
MyRide.Broward.org

BROWARD COUNTY Transit

954-357-8400
Broward.org/BCT

Route 15

Griffin Road to County Line Road
Fort Lauderdale/Hollywood Airport Tri-Rail Station

MONDAY - FRIDAY

There are additional bus stops in between those listed.

NUMBERS IN BOXES REFER TO TIME POINTS ON MAP

Times with the letter "G" before them indicate bus returns to garage.

SOUTHBOUND

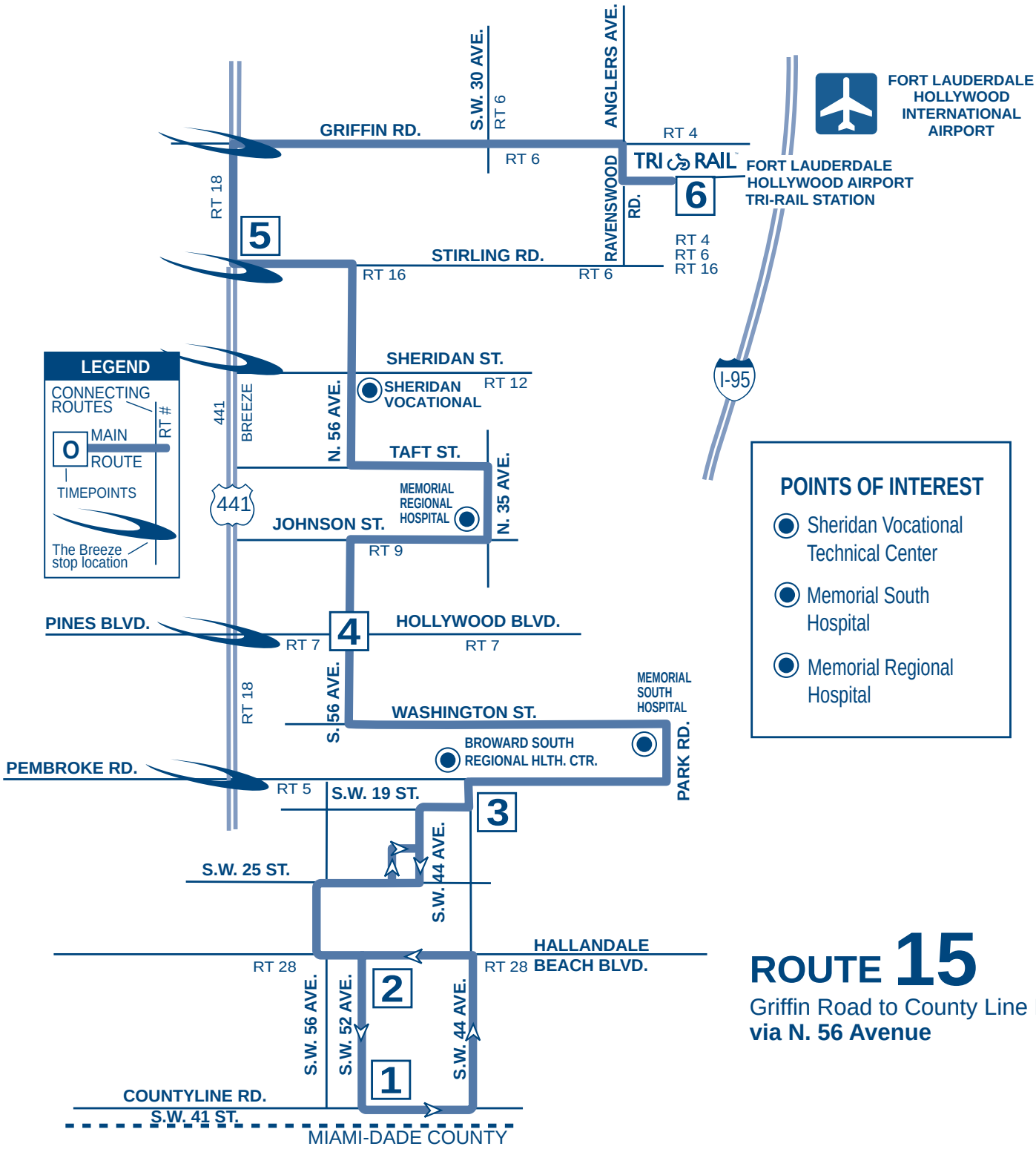
To County Line Road & S.W. 52 Avenue

FT. LAUDERDALE AIRPORT TRI-RAIL STATION **DEPART** 6	STIRLING RD. & HWY. 441 5	HOLLYWOOD BLVD. & S. 56 AVE. 4	PEMBROKE RD. & S. W. 40 AVE. 3	HALLANDALE BEACH BLVD. & S.W. 52 AVE. 2	COUNTY LINE RD. & S.W. 52 AVE. 1
5:55a	6:10a	6:26a	6:39a	6:50a	
7:00a	7:15a	7:31a	7:44a	7:55a	
8:05a	8:20a	8:36a	8:49a	9:00a	
9:10a	9:25a	9:41a	9:54a	10:05a	10:09aG
2:55p	3:10p	3:26p	3:39p	3:50p	
4:00p	4:15p	4:31p	4:44p	4:55p	
5:05p	5:20p	5:36p	5:49p	6:00p	
6:10p	6:25p	6:41p	6:54p	7:05p	7:09pG

NORTHBOUND

To Ft. Lauderdale Airport Tri-Rail

HALLANDALE BEACH BLVD. & S.W. 52 AVE. 2	PEMBROKE RD. & S.W. 40 AVE. 3	HOLLYWOOD BLVD. & S. 56 AVE. 4	STIRLING RD. & HWY. 441 5	FT. LAUDERDALE AIRPORT TRI-RAIL STATION **ARRIVE** 6
5:50a	6:08a	6:20a	6:35a	6:50a
6:55a	7:13a	7:25a	7:40a	7:55a
8:00a	8:18a	8:30a	8:45a	9:00a
9:05a	9:23a	9:35a	9:50a	10:05a G
2:50p	3:08p	3:20p	3:35p	3:50p
3:55p	4:13p	4:25p	4:40p	4:55p
5:00p	5:18p	5:30p	5:45p	6:00p
6:05p	6:23p	6:35p	6:50p	7:05pG



ROUTE 15

Griffin Road to County Line Road
via N. 56 Avenue

Holiday Bus Service

Sunday bus service is provided on the following observed holidays:

Labor Day Memorial Day
Independence Day Thanksgiving Day
Christmas Day

Fares

Exact fare, dollar bill or coins required. Operators do not carry change.

Fares are: Regular, Premium Express, Senior/Youth/College/Disabled/Medicare.* Children (under 40 inches ride FREE)

Fare Deals

All Day Bus Pass offers unlimited rides on all routes. On sale on all BCT buses.

NOTE: Other cost saving passes cannot be purchased on BCT buses, but are available at the Central Bus Terminal and at authorized distributors.

10 Ride Pass: 10 Rides any time, any day. Expires after the tenth ride is taken.

7 Day Pass: Unlimited rides for seven consecutive days. Starts on the first day card is used. Expires after the seventh day.

31 Day Adult Pass: Unlimited rides for 31 consecutive days. Starts on the first day card is used.

31 Day Reduced Pass: Youth*, Seniors*, Disabled*, Medicare*, College Student*. Unlimited rides for 31 consecutive days. Starts on the first day card is used.

****Premium Express 10 Ride Pass:** 10 rides any time, any day. Expires after tenth ride is taken.

****Premium Express 31 Day Pass:** Unlimited rides for 31 consecutive days. Starts on the first day card is used.

Bus passes are not exchangeable, refundable or transferrable. Damaged cards are invalid. Lost, stolen or damaged cards will not be replaced.

*NOTICE: Proof of age is required for Youth fare (18 years or younger) and for Senior fare (65 years or older). For College Student Bus Pass, a current college photo ID card is required. For Disabled and Medicare fare, proof of disability (Medicare card) and photo I.D. is required. Eligible Senior fare patrons are encouraged to acquire their BCT Reduced Fare Photo ID cards.

** Premium Bus Pass can be purchased online at Broward.org/BCT and at select Broward County library locations.

Customer Service

Monday - Friday .....7 am - 7:45 pm
Saturday, Sunday and Holidays 8:30 am - 4:45 pm

Transit Operations Agents help with:

- Trip planning
- Identifying Bus Pass sales locations
- Routes, times and transfer information
- Special event information

Lost and Found: 954-357-8400

Lost and Found: 954-357-8400, Monday, Tuesday, Thursday and Friday, 9:00 am - 4:00 pm

TRANSFER POLICY

TRANSFERS BETWEEN REGULAR BUS ROUTE SERVICE AND PREMIUM EXPRESS BUS SERVICE

A BCT 31-Day Premium Express Bus Pass is acceptable on all BCT regular bus service. Passengers transferring from regular route bus service to express bus service with an All Day, 7-Day or 31-Day bus pass, must pay a premium upgrade fee of $1.00. Passengers with a regular 10-Ride bus pass or paying by cash on regular service will not be able to transfer between bus services and must pay the full premium fare when boarding the Express bus.

TRANSFERS FROM BCT TO OTHER SOUTH FLORIDA TRANSIT SYSTEMS

When boarding a BCT bus, passenger pays the appropriate BCT fare and may request a transfer from the bus operator if transferring to Miami-Dade Transit (MDT), Palm Tran or Tri-Rail.

TRANSFERS TO BCT FROM OTHER SOUTH FLORIDA TRANSIT SYSTEMS

When transferring from MDT, Palm Tran and Tri-Rail to BCT regular fixed-route bus service, passenger pays $.50 with a transfer issued by MDT or Palm Tran and proof of fare payment such as Easy Card and receipt issued by Tri-Rail. Tri-Rail passengers boarding BCT at any locations other than at a Tri-Rail station will be required to pay the full fare.

TRANSFERS BETWEEN OTHER SOUTH FLORIDA TRANSIT SYSTEMS AND PREMIUM EXPRESS BUS SERVICE

Transfers to MDT or Tri-Rail from Express, a transfer is issued and passenger must pay appropriate MDT or Tri-Rail fare.
Transfer from MDT or Tri-Rail to Express, a $ .50 transfer fee is required with the appropriate transfer from MDT or Tri-Rail.

The Express does not connect with Palm Tran. The Easy Card issued by MDT and Tri-Rail is not accepted as payment on any BCT bus.

BROWARD COUNTY FLORIDA

BROWARD COUNTY BOARD OF COUNTY COMMISSIONERS
An equal opportunity employer and provider of services.

For more details on our fares please visit our web site at Broward.org/BCT or call customer service: 954.357.8400.

Reading a Timetable - It's Easy

1. The map shows the exact bus route.
2. Major route intersections are called time points. Time points are shown with the symbol ☐.
3. The timetable lists major time points for bus route. Listed under time points are scheduled departure times.
4. Reading from left to right, indicates the time for each bus trip.
5. The bus picks up and drops off riders at all BCT bus stop signs along the route where there is a Broward County bus stop sign.
6. Arrive at the bus stop five minutes early. Buses operate as close to published timetables as traffic conditions allow.

Not paying your fare is a crime per Florida Statute 812.015. Violation constitutes a misdemeanor, punishable by jail time and/or a fine.

Information: 954.357.8400

Hearing-speech impaired/TTY: 954.357.8302

This publication can be made available in alternative formats upon request by contacting 954-357-8400 or TTY 954-357-8302.

This symbol is used on bus stop signs to indicate accessible bus stops.

BROWARD COUNTY FLORIDA

BROWARD COUNTY
BOARD OF COUNTY COMMISSIONERS
An equal opportunity employer and provider of services.

ROUTE 18

All Week

Schedule

Effective 4/20/20

Golden Glades Interchange to Lauderhill Mall
via Highway 441

MyRide BROWARD.org

Real Time Bus Information
MyRide.Broward.org

BROWARD COUNTY Transit

954-357-8400
Broward.org/BCT

MONDAY - SATURDAY

NORTHBOUND

To Lauderhill Mall

GOLDEN GLADES INTERCHANGE	NW 215 ST & US 441	HOLLYWOOD BLVD & US 441 (TYLER ST)	STIRLING RD & US 441	DAVIE BLVD & US 441	LAUDERHILL MALL
1	2	3	4	5	6
5:10a	5:22a	5:33a	5:43a	5:54a	6:05a
5:25a	5:37a	5:48a	5:58a	6:10a	6:22a
5:40a	5:52a	6:03a	6:14a	6:26a	6:38a
5:55a	6:08a	6:20a	6:31a	6:43a	6:55a
6:10a	6:23a	6:35a	6:46a	6:58a	7:11a
6:25a	6:38a	6:50a	7:01a	7::14a	7:27a
6:40a	6:53a	7:05a	7:17a	7:30a	7:43a
6:55a	7:09a	7:22a	7:34a	7:47a	8:00a
7:10a	7:24a	7:37a	7:49a	8:02a	8:15a
7:25a	7:39a	7:52a	8:04a	8:17a	8:30a
7:40a	7:54a	8:07a	8:19a	8:32a	8:45a
7:55a	8:09a	8:22a	8:34a	8:47a	9:00a
8:10a	8:24a	8:37a	8:49a	9:02a	9:15a
8:25a	8:39a	8:52a	9:04a	9:17a	9:30aG
8:40a	8:54a	9:07a	9:19a	9:32a	9:45a
8:55a	9:09a	9:22a	9:34a	9:47a	10:00aG
9:10a	9:24a	9:37a	9:49a	10:02a	10:15a
9:25a	9:39a	9:52a	10:04a	10:17a	10:30aG
9:40a	9:54a	10:07a	10:19a	10:32a	10:45a
10:10a	10:24a	10:37a	10:49a	11:02a	11:15a
10:40a	10:54a	11:07a	11:19a	11:32a	11:45a
11:10a	11:24a	11:37a	11:49a	12:02p	12:15p
11:40a	11:54a	12:07p	12:19p	12:32p	12:45p
12:10p	12:24p	12:37p	12:49p	1:02p	1:15p
12:40p	12:54p	1:07p	1:19p	1:32p	1:45p
1:10p	1:24p	1:37p	1:49p	2:02p	2:15p
1:40p	1:54p	2:07p	2:19p	2:32p	2:45p
2:10p	2:24p	2:37p	2:49p	3:02p	3:15p
2:40p	2:54p	3:07p	3:19p	3:32p	3:45p
2:55p	3:09p	3:22p	3:34p	3:47p	4:00p
3:10p	3:24p	3:37p	3:49p	4:02p	4:15p
3:25p	3:39p	3:52p	4:04p	4:17p	4:30p
3:40p	3:54p	4:07p	4:19p	4:32p	4:45p
3:55p	4:09p	4:22p	4:34p	4:47p	5:00p
4:10p	4:24p	4:37p	4:49p	5:02p	5:15p
4:25p	4:39p	4:52p	5:04p	5:17p	5:30p
4:40p	4:54p	5:07p	5:19p	5:32p	5:45pG
4:55p	5:09p	5:22p	5:34p	5:47p	6:00p
5:10p	5:24p	5:37p	5:49p	6:02p	6:15pG
5:25p	5:39p	5:52p	6:04p	6:17p	6:30p
5:40p	5:54p	6:07p	6:19p	6:32p	6:45p
5:55p	6:09p	6:22p	6:34p	6:47p	7:00pG
6:10p	6:24p	6:37p	6:49p	7:02p	7:14p
6:25p	6:39p	6:52p	7:04p	7:16p	7:28pG
6:40p	6:54p	7:06p	7:17p	7:29p	7:41p
7:10p	7:23p	7:35p	7:46p	7:58p	8:10p
7:40p	7:53p	8:05p	8:16p	8:28p	8:40p
8:10p	8:23p	8:35p	8:46p	8:58p	9:09p
8:40p	8:53p	9:05p	9:15p	9:26p	9:37p
9:10p	9:22p	9:33p	9:43p	9:54p	10:05p
9:40p	9:52p	10:03p	10:13p	10:24p	10:35p
10:05p	10:17p	10:28p	10:38p	10:49p	11:00p
10:35p	10:47p	10:58p	11:08p	11:19p	11:30p
11:05p	11:17p	11:28p	11:38p	11:49p	12:00aG
11:30p	11:42p	11:53p	12:03a	12:14a	12:25aG

SOUTHBOUND

To Golden Glades Interchange

LAUDERHILL MALL	DAVIE BLVD & US 441	STIRLING RD & US 441	HOLLYWOOD BLVD & US 441	NW 215 ST & US 441	GOLDEN GLADES INTERCHANGE
6	5	4	3	2	1
5:10a	5:21a	5:32a	5:42a	5:53a	6:05a
5:25a	5:36a	5:47a	5:57a	6:09a	6:22a
5:40a	5:51a	6:02a	6:13a	6:25a	6:38a
5:55a	6:07a	6:19a	6:30a	6:42a	6:55a
6:10a	6:22a	6:34a	6:45a	6:57a	7:11a
6:25a	6:37a	6:49a	7:00a	7:13a	7:27a
6:40a	6:52a	7:04a	7:16a	7:29a	7:43a
6:55a	7:08a	7:21a	7:33a	7:46a	8:00a
7:10a	7:23a	7:36a	7:48a	8:01a	8:15a
7:25a	7:38a	7:51a	8:03a	8:16a	8:30a
7:40a	7:53a	8:06a	8:18a	8:31a	8:45a
7:55a	8:08a	8:21a	8:33a	8:46a	9:00a
8:10a	8:23a	8:36a	8:48a	9:01a	9:15a
8:25a	8:38a	8:51a	9:03a	9:16a	9:30a
8:40a	8:53a	9:06a	9:18a	9:31a	9:45aG
8:55a	9:08a	9:21a	9:33a	9:46a	10:00a
9:10a	9:23a	9:36a	9:48a	10::01a	10:15aG
9:25a	9:38a	9:51a	10:03a	10:16a	10:30a
9:55a	10:08a	10:21a	10:33a	10:46a	11:00a
10:25a	10:38a	10:51a	11:03a	11:16a	11:30a
10:55a	11:08a	11:21a	11:33a	11:46a	12:00p
11:25a	11:38a	11:51a	12:03p	12:16p	12:30p
11:55a	12:08p	12:21p	12:33p	12:46p	1:00p
12:25p	12:38p	12:51p	1:03p	1:16p	1:30p
12:55p	1:08p	1:21p	1:33p	1:46p	2:00p
1:25p	1:38p	1:51p	2:03p	2:16p	2:30p
1:55p	2:08p	2:21p	2:33p	2:46p	3:00p
2:25p	2:38p	2:51p	3:03p	3:16p	3:30p
2:55p	3:08p	3:21p	3:33p	3:46p	4:00p
3:10p	3:23p	3:36p	3:48p	4:01p	4:15p
3:25p	3:38p	3:51p	4:03p	4:16p	4:30p
3:40p	3:53p	4:06p	4:18p	4:31p	4:45p
3:55p	4:08p	4:21p	4:33p	4:46p	5:00p
4:10p	4:23p	4:36p	4:48p	5:01p	5:15pG
4:25p	4:38p	4:51p	5:03p	5:16p	5:30p
4:40p	4:53p	5:06p	5:18p	5:31p	5:45p
4:55p	5:08p	5:21p	5:33p	5:46p	6:00p
5:10p	5:23p	5:36p	5:48p	6:01p	6:15p
5:25p	5:38p	5:51p	6:03p	6:16p	6:30p
5:40p	5:53p	6:06p	6:18p	6:31p	6:45pG
5:55p	6:08p	6:21p	6:33p	6:46p	7:00p
6:10p	6:23p	6:36p	6:48p	7:01p	7:14pG
6:25p	6:38p	6:51p	7:03p	7:15p	7:28p
6:40p	6:53p	7:06p	7:17p	7:29p	7:42pG
6:55p	7:07p	7:19p	7:30p	7:42p	7:55p
7:25p	7:37p	7:49p	8:00p	8:12p	8:25p
7:55p	8:07p	8:19p	8:30p	8:42p	8:55pG
8:25p	8:37p	8:49p	9:00p	9:11p	9:23p
8:55p	9:06p	9:17p	9:27p	9:38p	9:50p
9:25p	9:36p	9:47p	9:57p	10:08p	10:20p
9:55p	10:06p	10:17p	10:27p	10:38p	10:50p
10:25p	10:36p	10:47p	10:57p	11:08p	11:20p
10:55p	11:06p	11:17p	11:27p	11:38p	11:50pG
11:20p	11:31p	11:42p	11:52p	12:03a	12:15aG
11:45p	11:56p	12:07a	12:17a	12:28a	12:40aG

NUMBERS IN BOXES REFER TO TIME POINTS ON MAP

Times with the letter "G" after them indicate bus returns to garage.

SUNDAY

NORTHBOUND

To Lauderhill Mall

GOLDEN GLADES INTERCHANGE	NW 215 ST & US 441	HOLLYWOOD BLVD & US 441 (TYLER ST)	STIRLING RD & US 441	DAVIE BLVD & US 441	LAUDERHILL MALL
1	**2**	**3**	**4**	**5**	**6**
6:00a	6:12a	6:23a	6:33a	6:44a	6:55a
6:30a	6:42a	6:53a	7:03a	7:15a	7:27a
7:00a	7:13a	7:25a	7:36a	7:48a	8:00a
7:30a	7:43a	7:55a	8:06a	8:18a	8:30a
8:00a	8:13a	8:25a	8:36a	8:48a	9:00a
8:30a	8:43a	8:55a	9:06a	9:18a	9:30a
9:00a	9:13a	9:25a	9:36a	9:48a	10:00a
9:30a	9:43a	9:55a	10:06a	10:18a	10:30a
10:00a	10:13a	10:25a	10:36a	10:48a	11:00a
10:30a	10:43a	10:55a	11:06a	11:18a	11:30a
11:00a	11:13a	11:25a	11:36a	11:48a	12:00p
11:30a	11:43a	11:55a	12:06p	12:18p	12:30p
12:00p	12:13p	12:25p	12:36p	12:48p	1:00p
12:30p	12:43p	12:55p	1:06p	1:18p	1:30p
1:00p	1:13p	1:25p	1:36p	1:48p	2:00p
1:30p	1:43p	1:55p	2:06p	2:18p	2:30p
2:00p	2:13p	2:25p	2:36p	2:48p	3:00p
2:30p	2:43p	2:55p	3:06p	3:18p	3:30p
3:00p	3:13p	3:25p	3:36p	3:48p	4:00p
3:30p	3:43p	3:55p	4:06p	4:18p	4:30p
4:00p	4:13p	4:25p	4:36p	4:48p	5:00p
4:30p	4:43p	4:55p	5:06p	5:18p	5:30p
5:00p	5:13p	5:25p	5:36p	5:48p	6:00p
5:30p	5:43p	5:55p	6:06p	6:18p	6:30p
6:00p	6:13p	6:25p	6:36p	6:48p	7:00p
6:30p	6:43p	6:55p	7:05p	7:16p	7:27p
7:00p	7:12p	7:23p	7:33p	7:44p	7:55p
7:30p	7:42p	7:53p	8:03p	8:14p	8:25p
8:00p	8:12p	8:23p	8:33p	8:44p	8:55p
8:30p	8:42p	8:53p	9:03p	9:14p	9:25p
9:00p	9:12p	9:23p	9:33p	9:44p	9:55p
9:30p	9:42p	9:53p	10:03p	10:14p	10:25p
10:00p	10:12p	10:23p	10:33p	10:44p	10:55pG

SOUTHBOUND

To Golden Glades Interchange

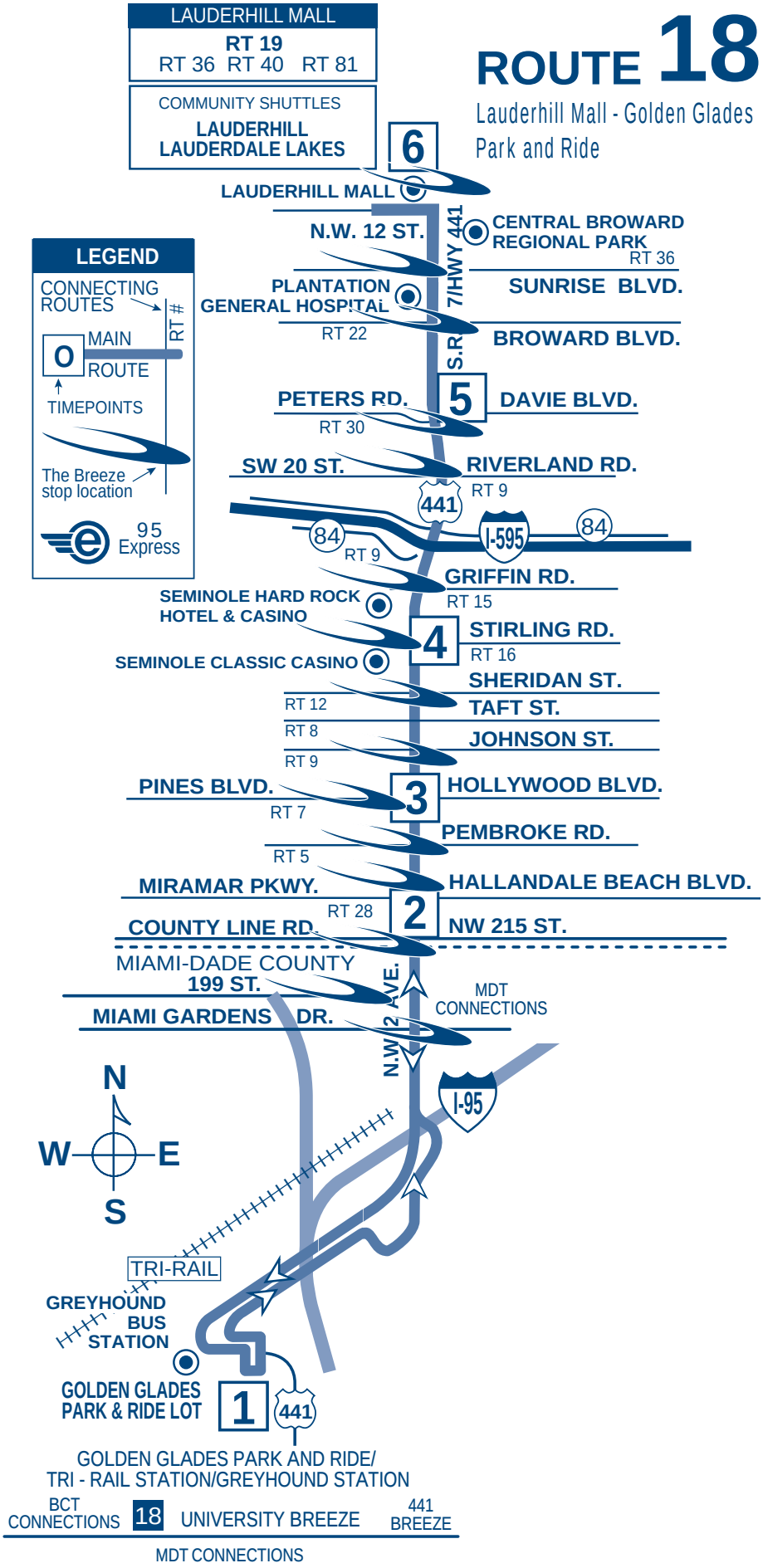
LAUDERHILL MALL	DAVIE BLVD & US 441	STIRLING RD & US 441	HOLLYWOOD BLVD & US 441	NW 215 ST & US 441	GOLDEN GLADES INTERCHANGE
6	**5**	**4**	**3**	**2**	**1**
6:45a	6:56a	7:08a	7:19a	7:31a	7:44a
7:15a	7:27a	7:39a	7:50a	8:02a	8:15a
7:45a	7:57a	8:09a	8:20a	8:32a	8:45a
8:15a	8:27a	8:39a	8:50a	9:02a	9:15a
8:45a	8:57a	9:09a	9:20a	9:32a	9:45a
9:15a	9:27a	9:39a	9:50a	10:02a	10:15a
9:45a	9:57a	10:09a	10:20a	10:32a	10:45a
10:15a	10:27a	10:39a	10:50a	11:02a	11:15a
10:45a	10:57a	11:09a	11:20a	11:32a	11:45a
11:15a	11:27a	11:39a	11:50a	12:02p	12:15p
11:45a	11:57a	12:09p	12:20p	12:32p	12:45p
12:15p	12:27p	12:39p	12:50p	1:02p	1:15p
12:45p	12:57p	1:09p	1:20p	1:32p	1:45p
1:15p	1:27p	1:39p	1:50p	2:02p	2:15p
1:45p	1:57p	2:09p	2:20p	2:32p	2:45p
2:15p	2:27p	2:39p	2:50p	3:02p	3:15p
2:45p	2:57p	3:09p	3:20p	3:32p	3:45p
3:15p	3:27p	3:39p	3:50p	4:02p	4:15p
3:45p	3:57p	4:09p	4:20p	4:32p	4:45p
4:15p	4:27p	4:39p	4:50p	5:02p	5:15p
4:45p	4:57p	5:09p	5:20p	5:32p	5:45p
5:15p	5:27p	5:39p	5:50p	6:02p	6:15p
5:45p	5:57p	6:09p	6:20p	6:32p	6:45p
6:15p	6:27p	6:39p	6:50p	7:02p	7:14p
6:45p	6:57p	7:08p	7:18p	7:29p	7:41p
7:15p	7:26p	7:37p	7:47p	7:58p	8:10p
7:45p	7:56p	8:07p	8:17p	8:28p	8:40p
8:15p	8:26p	8:37p	8:47p	8:58p	9:10p
8:45p	8:56p	9:07p	9:17p	9:28p	9:40p
9:15p	9:26p	9:37p	9:47p	9:58p	10:10pG
9:45p	9:56p	10:07p	10:17p	10:28p	10:40pG
10:15p	10:26p	10:37p	10:47p	10:58p	11:10pG
10:45p	10:56p	11:07p	11:17p	11:28p	11:40pG

NUMBERS IN BOXES REFER TO TIME POINTS ON MAP

Times with the letter "G" after them indicate bus returns to garage.

ROUTE 18

Lauderhill Mall - Golden Glades Park and Ride



Customer Service

Monday - Friday.....7 am - 7:45 pm
Saturday, Sunday and Holidays.....8:30 am - 4:45 pm

Transit Operations Agents help with:

- Trip planning
- Routes, times and transfer information
- Identifying Bus Pass sales locations
- Special event information

Lost and Found: 954-357-8400, Monday, Tuesday, Thursday and Friday, 9:00 am - 4:00 pm

Holiday Bus Service

Sunday bus service is provided on the following observed holidays:

New Year's Day	Labor Day	Memorial Day
Independence Day	Thanksgiving Day	Christmas Day

Fares

Exact fare, dollar bill or coins required. Operators do not carry change.

Fares are: Regular, Premium Express, Senior/Youth/Disabled/ Medicare.* Children (under 40 inches ride FREE)

Fare Deals

All Day Bus Pass offers unlimited rides on all routes. On sale aboard all BCT buses.

NOTE: Other cost saving passes cannot be purchased on BCT buses, but are available at the Central Bus Terminal and at authorized distributors.

10 Ride Pass: 10 Rides any time, any day. Expires after the tenth ride is taken.

7 Day Pass: Unlimited rides for seven consecutive days. Starts on the first day card is used. Expires after the seventh day.

31 Day Adult Pass: Unlimited rides for 31 consecutive days. Starts on the first day card is used.

31 Day Reduced Pass: Youth*, Seniors*, Disabled*, Medicare*, College Student*. Unlimited rides for 31 consecutive days. Starts on the first day card is used.

****Premium Express 10 Ride Pass:** 10 rides any time, any day. Expires after tenth ride is taken.

****Premium Express 31 Day Pass:** Unlimited rides for 31 consecutive days. Starts on the first day card is used.

Bus Passes are not exchangeable, refundable or transferrable. Damaged cards are invalid. Lost, stolen or damaged cards will not be replaced.

*NOTICE: Proof of age is required for Youth fare (18 years or younger) and for Senior fare (65 years or older). For College Student Bus Pass, a college photo ID card is required. For Disabled and Medicare fare, proof of disability (Medicare card) and photo I.D. is required. Eligible Senior fare patrons are encouraged to acquire their BCT Reduced Fare Photo ID cards.

** Premium Bus Pass can be purchased online at Broward.org/BCT and at select Broward County library locations.

PROTECTIONS OF TITLE VI OF THE CIVIL RIGHTS ACT OF 1964 AS AMENDED

Any person(s) or group(s) who believes that they have been subjected to discrimination because of race, color, or national origin, under any transit program or activity provided by Broward County Transit (BCT), may call 954-357-8481 to file a Title VI discrimination complaint or write to Broward County Transit Division, Compliance Manager, 1 N. University Drive, Suite 3100A, Plantation, FL 33324

TRANSIT WATCH

WHEN IT COMES TO OUR SAFETY, WE CAN ALWAYS USE AN EXTRA PAIR OF EYES AND EARS. BE ALERT. CALL 954-357-LOOK (5665). TELL US.

TRANSFER POLICY - EFFECTIVE 7/10/11

TRANSFERS BETWEEN REGULAR BCT BUS SERVICE AND BCT EXPRESS BUS SERVICE

Passengers using any BCT bus pass and transferring from a regular BCT route, to an Express bus route, must pay a $1.00 upgrade fee. Passengers with a Premium bus pass do not have to pay the $1.00 upgrade fee.

Passengers paying with cash, on a regular BCT bus route, will not be able to transfer to an Express bus route without paying the full premium fare when boarding the Express bus.

Passengers using an All-Day bus pass will be required to pay the $1.00 upgrade fee when boarding Express buses.

PREMIUM BUS PASS CUSTOMERS

The BCT 31-Day Premium Bus Pass is acceptable on all BCT regular bus routes.

TRANSFERS FROM BCT TO OTHER SOUTH FLORIDA TRANSIT SYSTEMS

When boarding a BCT bus, passenger pays the appropriate BCT fare and may request a transfer from the bus operator if transferring to Miami-Dade Transit (MDT), Palm Tran or Tri-Rail.

TRANSFERS TO BCT FROM OTHER SOUTH FLORIDA TRANSIT SYSTEMS

When transferring from MDT, Palm Tran and Tri-Rail to BCT regular fixed-route bus service, passenger pays $.50 with a transfer issued by MDT or Palm Tran and proof of fare payment such as Easy Card and receipt issued by Tri-Rail. Tri-Rail passengers boarding BCT at any locations other than at a Tri-Rail station will be required to pay the full fare.

TRANSFERS BETWEEN OTHER SOUTH FLORIDA TRANSIT SYSTEMS AND PREMIUM EXPRESS BUS SERVICE

Transfers to MDT or Tri-Rail from Premium Express Service, a transfer is issued and passenger must pay appropriate MDT or Tri-Rail fare.

Transfer from MDT or Tri-Rail to Premium Express Service, a $.50 transfer fee is required with the appropriate transfer from MDT or Tri-Rail.

The Premium Express Service does not connect with Palm Tran.

The Easy Card issued by MDT and Tri-Rail is not accepted as payment on any BCT bus.

For more details on our fares please visit our web site at Broward.org/BCT/faresandpasses.htm or call customer service: 954-357-8400.

Reading A Timetable - It's Easy

1. The map shows the exact bus route.
2. Major route intersections are called time points. Time points are shown with the symbol .
3. The timetable lists major time points for bus route. Listed under time points are scheduled departure times.
4. Reading from left to right, indicates the time for each bus trip.
5. Arrive at the bus stop five minutes early. Buses operate as close to published timetables as traffic conditions allow.

Not paying your fare is a crime per Florida Statute 812.015. Violation constitutes a misdemeanor, punishable by jail time and/or a fine.

Information: 954-357-8400

Hearing-speech impaired:
Florida Relay Service- 711 or 1-800-955-8771
TTY- 954-357-8302

This publication can be made available in alternative formats upon request.

This symbol is used on bus stop signs to indicate accessible bus stops.

BROWARD COUNTY FLORIDA

BROWARD COUNTY
BOARD OF COUNTY COMMISSIONERS
An equal opportunity employer and provider of services.

6,000 copies of this public document were promulgated at a gross cost of $312, or $.052 per copy to inform the public about the Transit Division's schedule and route information. Printed 11/19

ROUTE 441 BREEZE

Weekdays

Schedule

Effective 8/27/17

Golden Glades/Tri-Rail Park and Ride
to Turtle Creek Drive
via US-441

MyRide BROWARD.org
Real Time Bus Information
MyRide.Broward.org

BROWARD COUNTY Transit

954-357-8400
Broward.org/BCT

ROUTE 441 BREEZE

Monday - Friday Limited Service Stops at Highway 441 and these intersections ONLY.

- *TURTLE CREEK DR.*
- *SAMPLE RD.*
- *COPANS RD./ROYAL PALM BLVD.*
- *COCONUT CREEK PKWY.*
- *ATLANTIC BLVD.*
- *SOUTHGATE BLVD.*
- *KIMBERLY BLVD.*
- *COMMERCIAL BLVD.*
- *N.W. 41 ST.*
- *OAKLAND PARK BLVD.*
- *N.W. 26 ST.*
- *N.W. 19 ST.*
- *LAUDERHILL MALL STOP ON U.S. 441 AT N.W.12 ST.*
- *BROWARD BLVD.*
- *DAVIE BLVD.*
- *RIVERLAND RD./SW 20 ST.*
- *GRIFFIN RD.*
- *STIRLING RD.*
- *SHERIDAN ST.*
- *JOHNSON ST.*
- *HOLLYWOOD/PINES BLVD.*
- *PEMBROKE RD.*
- *HALLANDALE BEACH BLVD. Eastbound MIRAMAR PKWY. Westbound*
- *215 ST./ COUNTY LINE ROAD*
- *199 ST./IVES DAIRY RD.*
- *183 ST./MIAMI GARDENS DR.*
- *GOLDENGLADESPARK&RIDE/TRI-RAIL*

NORTHBOUND

To Turtle Creek Drive & US 441

GOLDEN GLADES INTERCHANGE	HALLANDALE BCH BLVD & US 441	STIRLING RD & US 441	BROWARD BLVD & US 441	OAKLAND PARK BLVD & US 441	ATLANTIC BLVD & US 441	TURTLE CREEK DR & US 441
1	2	3	4	5	6	7
5:10a	5:22a	5:37a	5:51a	6:00a	6:14a	6:33a
5:30a	5:41a	5:55a	6:09a	6:20a	6:34a	6:53a
5:50a	6:01a	6:16a	6:32a	6:43a	6:57a	7:16a
6:05a	6:17a	6:33a	6:49a	7:00a	7:14a	7:32a
6:25a	6:37a	6:53a	7:09a	7:20a	7:46a	8:04a
6:45a	6:57a	7:13a	7:30a	7:43a	8:09a	8:34a
7:05a	7:17a	7:35a	7:52a	8:05a	8:28a	8:53a
7:25a	7:39a	7:57a	8:14a	8:27a	8:49a	9:13a
7:50a	8:04a	8:21a	8:38a	8:51a	9:10a	9:34a
8:15a	8:29a	8:46a	9:03a	9:15a	9:32a	9:55a
8:40a	8:54a	9:10a	9:26a	9:38a	9:55a	10:18a
9:05a	9:19a	9:35a	9:48a	9:58a	10:15a	10:35a
9:25a	9:39a	9:55a	10:06a	10:16a	10:33a	10:52a
9:50a	10:04a	10:20a	10:30a	10:44a	11:01a	11:20a
10:10a	10:24a	10:44a	10:54a	11:08a	11:25a	11:46a
10:35a	10:48a	11:06a	11:20a	11:34a	11:50a	12:17p
10:55a	11:08a	11:23a	11:37a	11:47a	12:02p	12:28p
11:20a	11:33a	11:49a	12:05p	12:14p	12:29p	12:53p
11:40a	11:53a	12:10p	12:25p	12:40p	12:55p	1:19p
11:55a	12:08p	12:26p	12:39p	12:54p	1:09p	1:33p
12:15p	12:28p	12:47p	1:00p	1:15p	1:30p	2:00p
12:38p	12:51p	1:10p	1:23p	1:38p	1:56p	2:30p
1:05p	1:18p	1:37p	1:52p	2:03p	2:22p	2:49p
1:32p	1:46p	2:05p	2:20p	2:31p	2:51p	3:11p
2:00p	2:15p	2:34p	2:49p	3:09p	3:29p	3:49p
2:27p	2:42p	3:00p	3:15p	3:35p	3:55p	4:21p
2:50p	3:05p	3:23p	3:38p	3:56p	4:16p	4:42p
3:05p	3:20p	3:38p	3:54p	4:09p	4:29p	4:56p
3:30p	3:45p	4:04p	4:23p	4:38p	4:58p	5:30p
3:50p	4:05p	4:25p	4:44p	5:00p	5:21p	5:52p
4:17p	4:32p	4:52p	5:11p	5:27p	5:48p	6:13p
4:45p	5:02p	5:20p	5:39p	5:56p	6:17p	6:47p
5:15p	5:33p	5:51p	6:05p	6:25p	6:44p	7:15p
5:45p	6:08p	6:26p	6:39p	7:11p	7:28p	7:46pG
6:15p	6:41p	6:53p	7:05p	7:23p	7:40p	7:58pG
6:45p	7:11p	7:28p	7:43p	7:58p	8:15p	8:33pG
7:15p	7:31p	7:48p	8:03p	8:18p	8:35p	8:53pG

NUMBERS IN BOXES REFER TO TIME POINTS ON MAP
Times with the letter "G" after them indicate bus returns to garage.

SOUTHBOUND

To Golden Glades Interchange

TURTLE CREEK DR & US 441	ATLANTIC BLVD & US 441	OAKLAND PARK BLVD & US 441	BROWARD BLVD & US 441	STIRLING RD & US 441	HALLANDALE BCH BLVD & US 441	GOLDEN GLADES INTERCHANGE
7	6	5	4	3	2	1
5:10a	5:20a	5:36a	5:49a	6:03a	6:21a	6:38a
5:30a	5:40a	5:55a	6:05a	6:19a	6:34a	6:51a
5:50a	6:00a	6:15a	6:25a	6:37a	6:54a	7:12a
6:10a	6:20a	6:37a	6:49a	7:03a	7:20a	7:39a
6:30a	6:42a	7:03a	7:16a	7:32a	7:48a	8:07a
6:50a	7:02a	7:26a	7:39a	7:56a	8:12a	8:31a
7:10a	7:21a	7:46a	7:58a	8:16a	8:33a	8:52a
7:30a	7:42a	8:03a	8:15a	8:32a	8:49a	9:08a
7:55a	8:07a	8:27a	8:40a	8:57a	9:14a	9:35a
8:20a	8:32a	8:52a	9:05a	9:19a	9:35a	9:56a
8:45a	8:57a	9:18a	9:30a	9:44a	10:00a	10:21a
9:05a	9:19a	9:37a	9:49a	10:03a	10:19a	10:40a
9:30a	9:42a	10:03a	10:15a	10:29a	10:47a	11:08a
9:50a	10:02a	10:23a	10:35a	10:47a	11:03a	11:24a
10:10a	10:21a	10:41a	10:53a	11:04a	11:19a	11:39a
10:30a	10:41a	10:58a	11:10a	11:21a	11:36a	11:55a
10:50a	11:02a	11:21a	11:33a	11:47a	12:01p	12:21p
11:10a	11:20a	11:39a	11:52a	12:06p	12:21p	12:44p
11:35a	11:46a	12:04p	12:17p	12:35p	12:51p	1:14p
12:00p	12:11p	12:35p	12:51p	1:08p	1:26p	1:49p
12:25p	12:38p	1:04p	1:17p	1:32p	1:50p	2:14p
12:45p	12:59p	1:19p	1:32p	1:47p	2:06p	2:30p
1:10p	1:24p	1:42p	1:55p	2:11p	2:30p	2:51p
1:35p	1:48p	2:06p	2:19p	2:35p	2:54p	3:12p
1:50p	2:02p	2:21p	2:34p	2:50p	3:09p	3:29p
2:17p	2:30p	2:50p	3:02p	3:18p	3:37p	3:59p
2:44p	2:57p	3:17p	3:30p	3:46p	4:05p	4:27p
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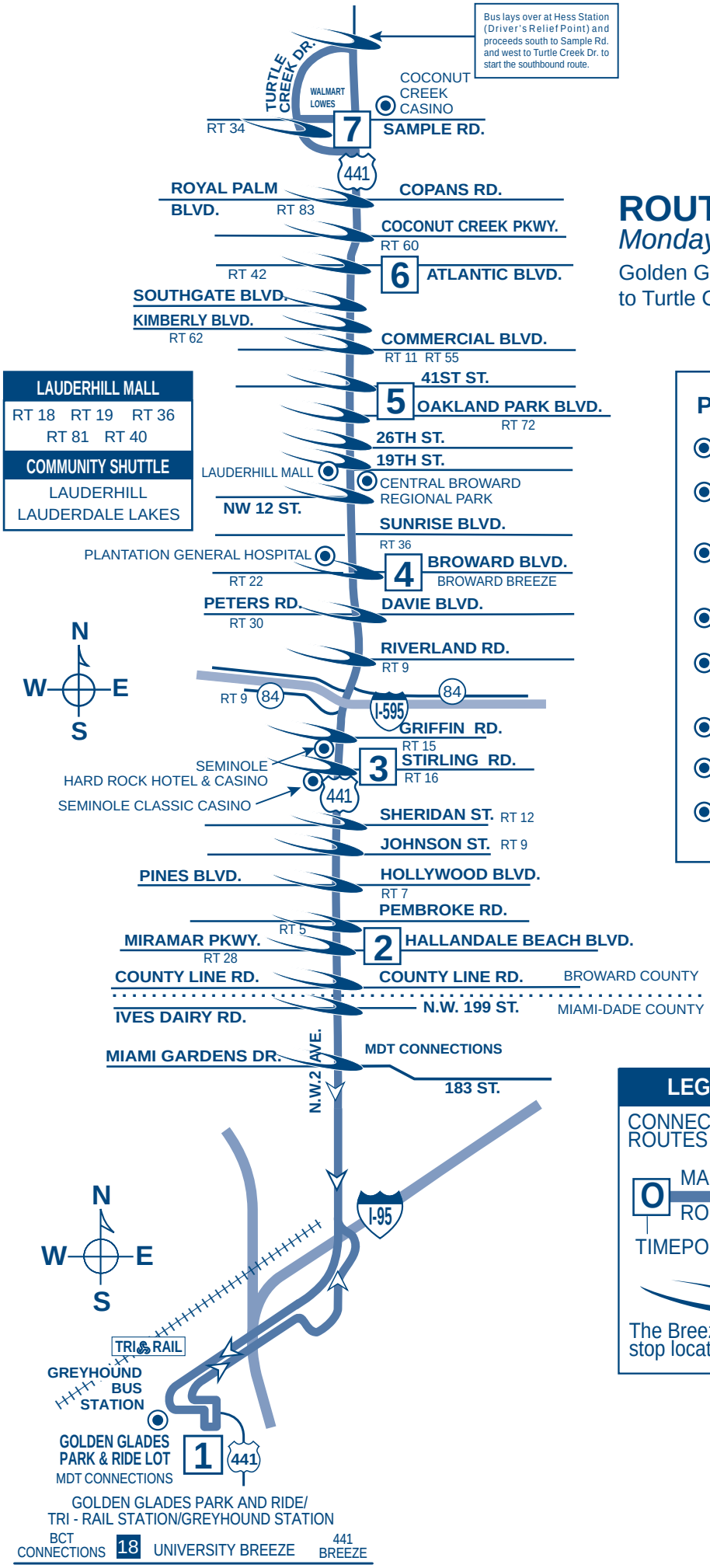
4:02p	4:17p	4:42p	4:57p	5:21p	5:40p	6:04p
4:30p	4:47p	5:11p	5:26p	5:50p	6:10p	6:32p
4:55p	5:12p	5:38p	5:53p	6:17p	6:37p	6:57p
5:15p	5:33p	5:59p	6:14p	6:33p	6:52p	7:12pG
5:40p	5:57p	6:21p	6:35p	6:51p	7:10p	7:28pG
6:05p	6:21p	6:43p	6:57p	7:13p	7:31p	7:49pG
6:30p	6:45p	7:07p	7:19p	7:33p	7:51p	8:09pG
6:57p	7:12p	7:33p	7:44p	7:58p	8:16p	8:34pG
7:27p	7:39p	8:00p	8:11p	8:25p	8:43p	9:01pG

ROUTE 441 *Breeze*

Monday - Friday Limited Service

Golden Glades/Tri-Rail Park and Ride to Turtle Creek Drive **via US-441**



LAUDERHILL MALL

RT 18 RT 19 RT 36
RT 81 RT 40

COMMUNITY SHUTTLE

LAUDERHILL
LAUDERDALE LAKES

POINTS OF INTEREST

- Lauderhill Mall
- Plantation General Hospital
- Central Broward Regional Park
- Coconut Creek Casino
- Seminole Hard Rock Hotel & Casino
- Seminole Classic Casino
- Tri-Rail
- Greyhound Bus Terminal

LEGEND

CONNECTING ROUTES — RT #

O — MAIN ROUTE

TIMEPOINTS

The Breeze stop location

Customer Service

Monday - Friday.....7 am - 7:45 pm
Saturday, Sunday and Holidays.....8:30 am - 4:45 pm

Transit Operations Agents help with:

- Trip planning
- Routes, times and transfer information
- Identifying Bus Pass sales locations
- Special event information

Lost and Found: 954-357-8400, Monday, Tuesday, Thursday and Friday, 9:00 am - 4:00 pm

Holiday Bus Service

Sunday bus service is provided on the following observed holidays:

New Year's Day	Labor Day	Memorial Day
Independence Day	Thanksgiving Day	Christmas Day

Fares

Exact fare, dollar bill or coins required. Operators do not carry change.

Fares are: Regular, Premium Express, Senior/Youth/Disabled/Medicare.* Children (under 40 inches ride FREE)

Fare Deals

All Day Bus Pass offers unlimited rides on all routes. On sale aboard all BCT buses.

NOTE: Other cost saving passes cannot be purchased on BCT buses, but are available at the Central Bus Terminal and at authorized distributors.

10 Ride Pass: 10 Rides any time, any day. Expires after the tenth ride is taken.

7 Day Pass: Unlimited rides for seven consecutive days. Starts on the first day card is used. Expires after the seventh day.

31 Day Adult Pass: Unlimited rides for 31 consecutive days. Starts on the first day card is used.

31 Day Reduced Pass: Youth*, Seniors*, Disabled*, Medicare*, College Student*. Unlimited rides for 31 consecutive days. Starts on the first day card is used.

****Premium Express 10 Ride Pass:** 10 rides any time, any day. Expires after tenth ride is taken.

****Premium Express 31 Day Pass:** Unlimited rides for 31 consecutive days. Starts on the first day card is used.

Bus Passes are not exchangeable, refundable or transferrable. Damaged cards are invalid. Lost, stolen or damaged cards will not be replaced.

*NOTICE: Proof of age is required for Youth fare (18 years or younger) and for Senior fare (65 years or older). For College Student Bus Pass, a college photo ID card is required. For Disabled and Medicare fare, proof of disability (Medicare card) and photo I.D. is required. Eligible Senior fare patrons are encouraged to acquire their BCT Reduced Fare Photo ID cards.

** Premium Bus Pass can be purchased online at Broward.org/BCT and at select Broward County library locations.

PROTECTIONS OF TITLE VI OF THE CIVIL RIGHTS ACT OF 1964 AS AMENDED

Any person(s) or group(s) who believes that they have been subjected to discrimination because of race, color, or national origin, under any transit program or activity provided by Broward County Transit (BCT), may call 954-357-8481 to file a Title VI discrimination complaint or write to Broward County Transit Division, Compliance Manager, 1 N. University Drive, Suite 3100A, Plantation, FL 33324

TRANSIT WATCH

WHEN IT COMES TO OUR SAFETY, WE CAN ALWAYS USE AN EXTRA PAIR OF EYES AND EARS. BE ALERT. CALL 954-357-LOOK (5665). TELL US.

TRANSFER POLICY - EFFECTIVE 7/10/11

TRANSFERS BETWEEN REGULAR BCT BUS SERVICE AND BCT EXPRESS BUS SERVICE

Passengers using any BCT bus pass and transferring from a regular BCT route, to an Express bus route, must pay a $1.00 upgrade fee. Passengers with a Premium bus pass do not have to pay the $1.00 upgrade fee.

Passengers paying with cash, on a regular BCT bus route, will not be able to transfer to an Express bus route without paying the full premium fare when boarding the Express bus.

Passengers using an All-Day bus pass will be required to pay the $1.00 upgrade fee when boarding Express buses.

PREMIUM BUS PASS CUSTOMERS

The BCT 31-Day Premium Bus Pass is acceptable on all BCT regular bus routes.

TRANSFERS FROM BCT TO OTHER SOUTH FLORIDA TRANSIT SYSTEMS

When boarding a BCT bus, passenger pays the appropriate BCT fare and may request a transfer from the bus operator if transferring to Miami-Dade Transit (MDT), Palm Tran or Tri-Rail.

TRANSFERS TO BCT FROM OTHER SOUTH FLORIDA TRANSIT SYSTEMS

When transferring from MDT, Palm Tran and Tri-Rail to BCT regular fixed-route bus service, passenger pays $.50 with a transfer issued by MDT or Palm Tran and proof of fare payment such as Easy Card and receipt issued by Tri-Rail. Tri-Rail passengers boarding BCT at any locations other than at a Tri-Rail station will be required to pay the full fare.

TRANSFERS BETWEEN OTHER SOUTH FLORIDA TRANSIT SYSTEMS AND PREMIUM EXPRESS BUS SERVICE

Transfers to MDT or Tri-Rail from Premium Express Service, a transfer is issued and passenger must pay appropriate MDT or Tri-Rail fare.

Transfer from MDT or Tri-Rail to Premium Express Service, a $.50 transfer fee is required with the appropriate transfer from MDT or Tri-Rail.

The Premium Express Service does not connect with Palm Tran.

The Easy Card issued by MDT and Tri-Rail is not accepted as payment on any BCT bus.

INFORMATION

For more information about the City of Dania Beach Community Shuttle Service routes and connections:

954-924-6800 Ext. 3626

Monday - Friday: 8:30AM - 5PM

Hearing-speech impaired/TTY:

954-925-1388

Visit the City of Dania Beach's web site

www.daniabeachfl.gov

For more information about BCT routes, fares or connections, call:

BCT Rider Info:

954-357-8400

Hearing-speech impaired/TTY*

954-357-8302

*Teletype machine required

Visit Broward County Transit's web site at:

Broward.org/BCT

This publication can be made available in alternative formats upon request by contacting 954-357-8400 or TTY 954-357-8302.

BROWARD COUNTY
BOARD OF COUNTY COMMISSIONERS
TRANSPORTATION DEPARTMENT
An equal opportunity employer and provider of services.

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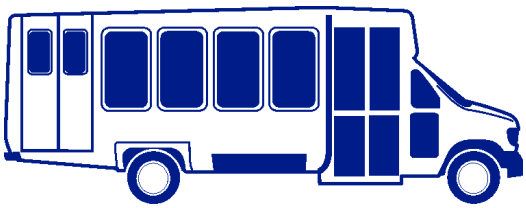
DANIA BEACH
East Route
West Route

BCT Route 740 East
BCT Route 741 West

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

Community Shuttle Service Routes and Timetables



Effective: April 2014

DANIA BEACH COMMUNITY SHUTTLE ROUTES SERVICE

The City of Dania Beach and Broward County Transit (BCT) have partnered to provide the Dania Beach East and West Routes. This community shuttle service will increase the number of destinations and connections that can be reached through public transit. Destinations along the Dania Beach Routes include: Dania Beach City Hall & Library, Frost Park & Dania Jai Alai, Dania Beach Marina, Antique District Shops, US Post Office, Hotel Complex, Oakwood Plaza, Airport Tri-Rail Station, Sportsman's Park, Patrick J. Meli Park, Hard Rock Hotel and Casino and surrounding neighborhood.

Connections are available to BCT Routes 1 and US 1 Breeze, 4, 6, 12, 15, 16, 18 and 441 Breeze, and the South Florida Education Center (SFEC) Shuttle.

All shuttles on this route are air-conditioned and wheelchair accessible in accordance with the Americans with Disabilities Act (ADA). Bicycle racks are also provided. Please refer to this pamphlet for instruction on how to correctly use the bicycle racks.

The Dania Beach Community Shuttle Route is free of charge, but riders making connections to BCT routes are expected to pay the appropriate fares.

HOURS OF OPERATION

EAST ROUTE: Monday Through Saturday: 9AM – 5:30PM
WEST ROUTE: Monday Through Saturday: 9AM – 5:47PM

The Dania Beach East Route operates approximately every 60 minutes, with assigned stops. This route provides service to Dania Beach Marina beginning at 11AM.

The Dania Beach West Route operates approximately every 75 minutes, with assigned stops. This route provides service to Hard Rock Hotel and Casino beginning at 9AM.

Please refer to the timetable and map on the reverse side of this pamphlet. The shuttle will operate as close to schedule as possible. Traffic conditions and/or inclement weather may cause the shuttle to arrive earlier or later than the expected time. Please allow yourself enough time when using this service.

The Dania Beach Community Shuttle Routes will not operate once a hurricane warning has been issued or if other hazards do not allow for the safe operation of the shuttle.

HOLIDAYS

The Dania Beach East and West Routes do not operate on the following holidays observed by City of Dania Beach:

- New Year's Day
- Thanksgiving Day
- Christmas Eve/Day

BIKE RACKS

Bike racks are available on the Dania Beach Community Shuttles. Bike racks are designed to carry two bikes only. It is important to have the operator's attention before loading and unloading your bike. As the shuttle approaches, have your bike ready to load. Remove any loose items that may fall off.

Loading

- Always load your bike from the curbside of the street.
- Lower-Squeeze the handle and pull down to release the folded bike rack.
- Lift your bike into the rack, fitting the wheels into the slots of the vacant position closest to the shuttle.
- Latch-Pull and release the support arm over the front tire, making sure the support arm is resting on the tire, not on the fender or frame.

Unloading

- Before exiting, notify the operator you are removing your bike.
- Pull the support arm off the tire. Move the support arm down and out of the way. Lift your bike out of the rack. If your bike is the only one on the rack, return the rack to the upright position.
- Move quickly to the curb.

1,000 copies of this public document was promulgated at a gross cost of $1,316, or $1.32per copy, to inform the public about community shuttle service between Broward County Transit and the City of Dania Beach. 3/19

WEST ROUTE

Dania Beach City Hall	NW 1 ST NW 14 AVE	STIRLING RD COMPLEX PICKUP	OAKWOOD SQUARE K-MART	PARK RD AND SW 55 ST	FLT-AIRPORT TRI-RAIL	GRIFFIN RD & SW 31 AVE PUBLIX	HARD ROCK CASINO SW 54 CT/LUCKY ST	BEL-PLAYLAND-BROWARD	GRIFFIN RD & SW 31 AVE PUBLIX - **ARRIVAL**	GRIFFIN RD & SW 31 AVE PUBLIX - **DEPARTURE**	PARK RD AND SW 55 ST	DANIA BEACH CITY HALL
1	2	3	4	5	6	7	8	9	7	7	5	1
9:00a	9:04a	9:07a	9:13a	9:28a	9:33a	9:38a	9:45a	9:48a	9:55a	10:00a	10:03a	10:15a
10:15a	10:19a	10:22a	10:28a	10:43a	10:48a	10:53a	11:00a	11:03a	11:10a	11:15a	11:18a	11:30a
11:30a	11:34a	11:37a	11:43a	11:58a	12:03p	**12:08p**	**12:15p**	**12:18p**	**12:25p**	**12:30p**	**12:33p**	**12:45p**
12:45p	**12:49p**	**12:52p**	**12:58p**	**1:13p**	**1:18p**	**1:23p**	**1:30p**	**1:33p**	**1:40p**	**1:45p**	**1:48p**	**2:00p**
2:00p	**2:04p**	**2:07p**	**2:13p**	**2:28p**	**2:33p**	**2:38p**	**2:45p**	**2:48p**	**2:55p**	**3:00p**	**3:03p**	**3:15p**
3:15p	**3:19p**	**3:22p**	**3:28p**	**3:43p**	**3:48p**	**3:53p**	**4:00p**	**4:03p**	**4:10p**	**4:15p**	**4:18p**	**4:30p**
4:32p	**4:36p**	**4:39p**	**4:45p**	**5:00p**	**5:05p**	**5:10p**	**5:17p**	**5:20p**	**5:27p**	**5:32p**	**5:35p**	**5:47p**

Bold numbers indicate P.M. hours.

EAST ROUTE

DANIA BEACH CITY HALL	FROST PARK & DANIA JAI ALAI	NE 2 ST & NE 6 AVE DANIA	DANIA BEACH WEINER'S MOBILE PARK	DANIA BEACH BAR AND GRILL	DANIA BEACH & SE 5 AVE BEACHWAY PLAZA	SE 3 AVE & SE 10 ST	SHERIDAN ST & SE 5 AVE **ARRIVAL**	SHERIDAN ST & SE 5 AVE **DEPARTURE**	DANIA BEACH BLVD & SE 3 AVE WINN-DIXIE	COMMMUNITY HEALTH CTR MEMORIAL HOSPITAL	DANIA BEACH CITY HALL	SAVE-A-LOT & COLLEGE GARDENS COMMUNITY	OAKWOOD SQUARE K-MART	DANIA BEACH CITY HALL
1	2	3	4	5	6	7	8	8	9	10	1	11	12	1
9:00a	9:04a	9:07a	9:10a		9:14a	9:17a	9:21a	9:26a	9:31a	9:36a	9:39a	9:46a	9:52a	9:57a
9:57a	10:01a	10:04a	10:07a		10:11a	10:14a	10:18a	10:23a	10:28a	10:33a	10:36a	10:43a	10:49a	10:54a
10:54a	10:58a	11:01a	11:04a	11:11a	11:16a	11:20a	11:24a	11:29a	11:34a	11:39a	11:42a	11:49a	11:55a	**12:00p**
12:00p	**12:04p**	**12:07p**	**12:10p**	**12:17p**	**12:22p**	**12:26p**	**12:30p**	**12:35p**	**12:40p**	**12:45p**	**12:48p**	**12:55p**	**1:01p**	**1:06p**
1:06p	**1:10p**	**1:13p**	**1:16p**	**1:23p**	**1:28p**	**1:32p**	**1:36p**	**1:41p**	**1:46p**	**1:51p**	**1:54p**	**2:01p**	**2:07p**	**2:12p**
2:12p	**2:16p**	**2:19p**	**2:22p**	**2:29p**	**2:34p**	**2:38p**	**2:42p**	**2:47p**	**2:52p**	**2:57p**	**3:00p**	**3:07p**	**3:13p**	**3:18p**
3:18p	**3:22p**	**3:25p**	**3:28p**	**3:35p**	**3:40p**	**3:44p**	**3:48p**	**3:53p**	**3:58p**	**4:03p**	**4:06p**	**4:13p**	**4:19p**	**4:24p**
4:24p	**4:28p**	**4:31p**	**4:34p**	**4:41p**	**4:46p**	**4:50p**	**4:54p**	**4:59p**	**5:04p**	**5:09p**	**5:12p**	**5:19p**	**5:25p**	**5:30p**

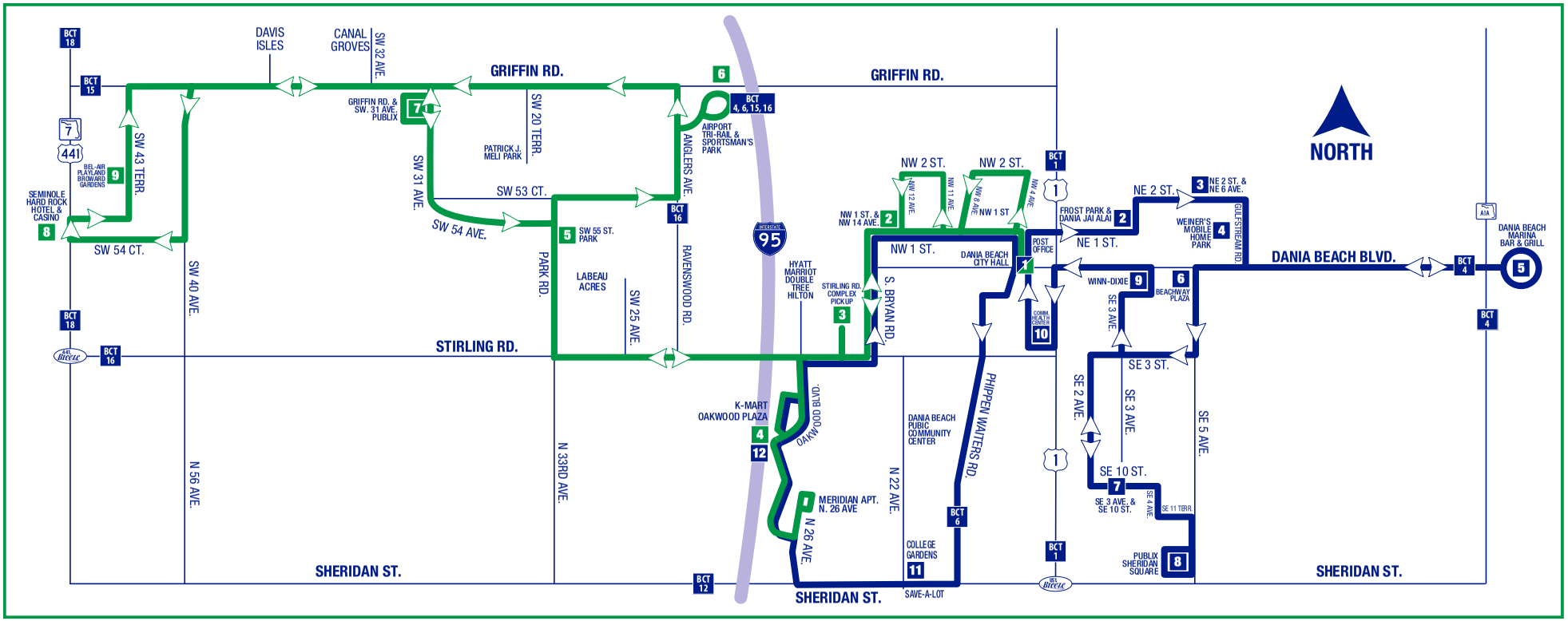

NORTH
GRIFFIN RD.
STIRLING RD.
SHERIDAN ST.
DANIA BEACH BLVD.
DAVIS ISLES
CANAL GROVES
SW 32 AVE.
GRIFFIN RD. & SW. 31 AVE. PUBLIX
SW 20 TERR.
PATRICK J. MELI PARK
SW 31 AVE.
SW 53 CT.
SW 54 AVE.
SW 54 CT.
SW 43 TERR.
BEL-AIR PLAYLAND BROWARD GARDENS
SEMINOLE HARD ROCK HOTEL & CASINO
SW 40 AVE.
N 56 AVE.
SW 55 ST. PARK
PARK RD.
LABEAU ACRES
SW 25 AVE.
N 33RD AVE.
ANGLERS AVE.
RAVENSWOOD RD.
AIRPORT TRI-RAIL & SPORTSMAN'S PARK
BCT 4, 6, 15, 16
INTERSTATE 95
HYATT MARRIOT DOUBLE TREE HILTON
STIRLING RD. COMPLEX PICKUP
K-MART OAKWOOD PLAZA
OAKWOOD BLVD.
MERIDIAN APT. N. 26 AVE
N 26 AVE.
N 22 AVE.
DANIA BEACH PUBLIC COMMUNITY CENTER
COLLEGE GARDENS
SAVE-A-LOT
S. BRYAN RD.
NW 1 ST. & NW 14 AVE.
NW 1 ST.
NW 2 ST.
NW 12 AVE.
NW 11 AVE.
NW 8 AVE.
NW 4 AVE.
DANIA BEACH CITY HALL
POST OFFICE
COMM. HEALTH CENTER
PHIPPEN WAITERS RD.
FROST PARK & DANIA JAI ALAI
NE 1 ST.
NE 2 ST.
NE 2 ST. & NE 6 AVE.
WEINER'S MOBILE HOME PARK
GULFSTREAM RD.
WINN-DIXIE
BEACHWAY PLAZA
SE 3 AVE.
SE 3 ST.
SE 2 AVE.
SE 10 ST.
SE 3 AVE. & SE 10 ST.
SE 4 AVE.
SE 11 TERR.
SE 5 AVE.
PUBLIX SHERIDAN SQUARE
DANIA BEACH MARINA BAR & GRILL
A1A
441
95
BCT 18
BCT 15
BCT 16
BCT 12
BCT 6
BCT 1
BCT 4

Exhibit K

BCT Correspondence

Kanaan, Omar

From: Crawford, Tara <tacrawford@broward.org>
Sent: Friday, May 29, 2020 10:00 AM
To: Hollowed, Maddy
Cc: Kanaan, Omar
Subject: RE: Bus Shelters/Routes -
Attachments: RE: Bus Shelters/Routes - Stirling Road and Sheridan Street

Categories: External

Good morning Maddy,

Please refer to my earlier email to Raquel which included the MAP surtax shapefile which has all the routes, existing and planned (which you can find attached).

For our existing routes you can check our website to see where they are located, and yes those routes are located along the segments you indicated.

Additionally, regarding your request about future bus shelters, please coordinate with Capital Programs (Noemi and Kurt), of which their contact information is included in the attached email.

Regards,
Tara

From: Hollowed, Maddy <Maddy.Hollowed@kimley-horn.com>
Sent: Friday, May 29, 2020 9:32 AM
To: Crawford, Tara <tacrawford@broward.org>
Cc: Kanaan, Omar <omar.kanaan@kimley-horn.com>
Subject: Bus Shelters/Routes -

External Email Warning: This email originated from outside the Broward County email system. Do not reply, click links, or open attachments unless you recognize the sender's **email address** (not just the name) as legitimate and know the content is safe. Report any suspicious emails to ETSSecurity@broward.org.

Good morning Tara,

Can you please confirm the following existing BCT routes along Griffin Road between the Florida Turnpike and SW 40th Avenue and along US-441/SR-7 between SW 51st Street and Orange Drive:

Existing

- BCT Route 15
- BCT Route 18
- BCT Route 441 (Breeze)

Additionally, could you please confirm any future bus shelters, routes, or transit improvements programmed for Griffin Road between the Florida Turnpike and SW 40th Avenue and along US-441/SR-7 between SW 51st Street and Orange Drive.

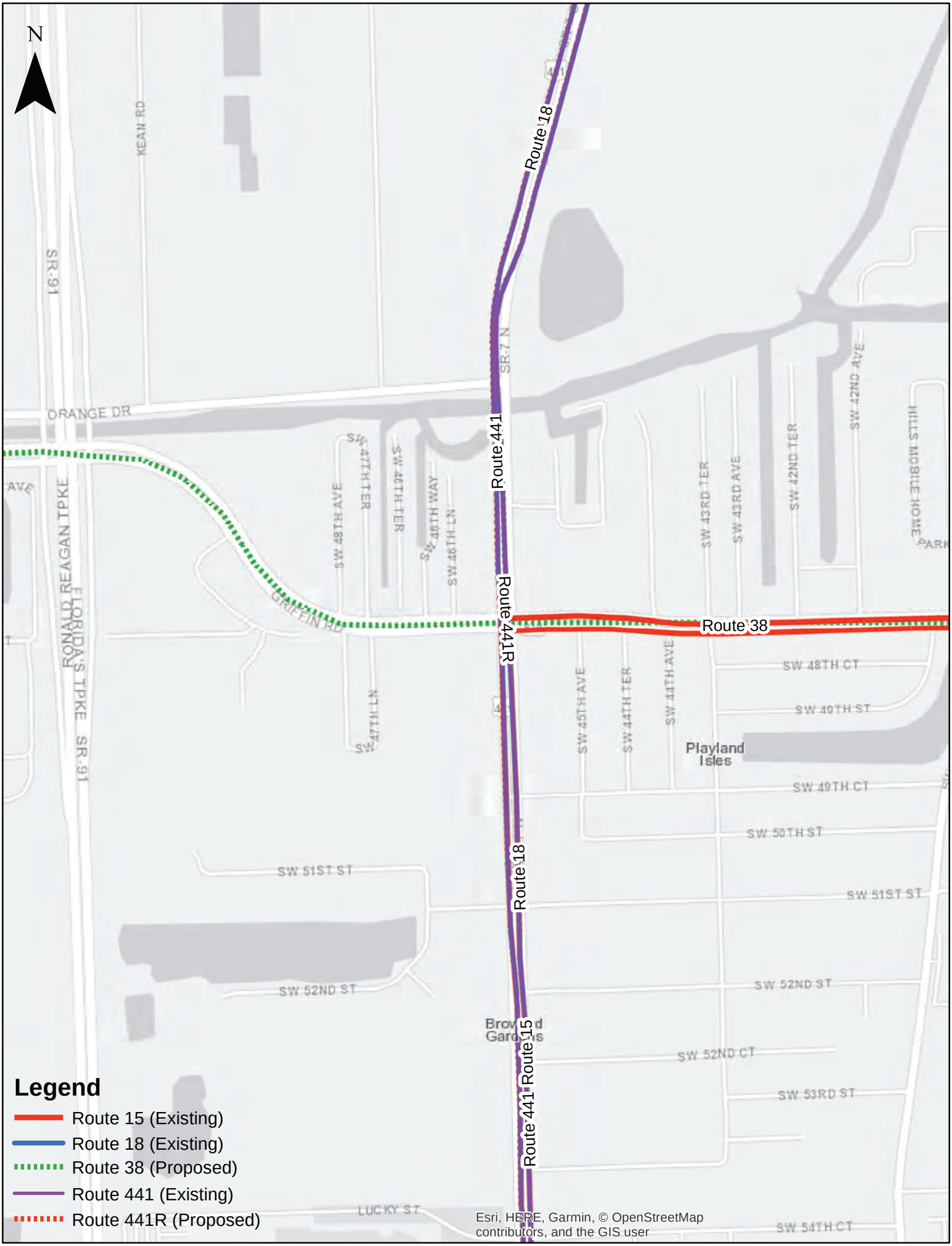

N
Route 18
Route 441
Route 441R
Route 38
Route 18
Route 15
Route 441
KEAN RD
SR-91
ORANGE DR
SR-7 N
RONALD REAGAN TPKE
FLORIDA'S TPKE SR-91
GRIFFIN RD
SW 48TH AVE
SW 47TH TER
SW 46TH TER
SW 46TH WAY
SW 46TH LN
SW 47TH LN
SW 43RD TER
SW 43RD AVE
SW 42ND TER
SW 42ND AVE
HILLS MOBILE HOME PARK
SW 45TH AVE
SW 44TH TER
SW 44TH AVE
SW 48TH CT
SW 49TH ST
Playland Isles
SW 49TH CT
SW 50TH ST
SW 51ST ST
SW 51ST ST
SW 52ND ST
SW 52ND ST
Broward Gardens
SW 52ND CT
SW 53RD ST
LUCKY ST
SW 54TH CT
Legend
Route 15 (Existing)
Route 18 (Existing)
Route 38 (Proposed)
Route 441 (Existing)
Route 441R (Proposed)
Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user

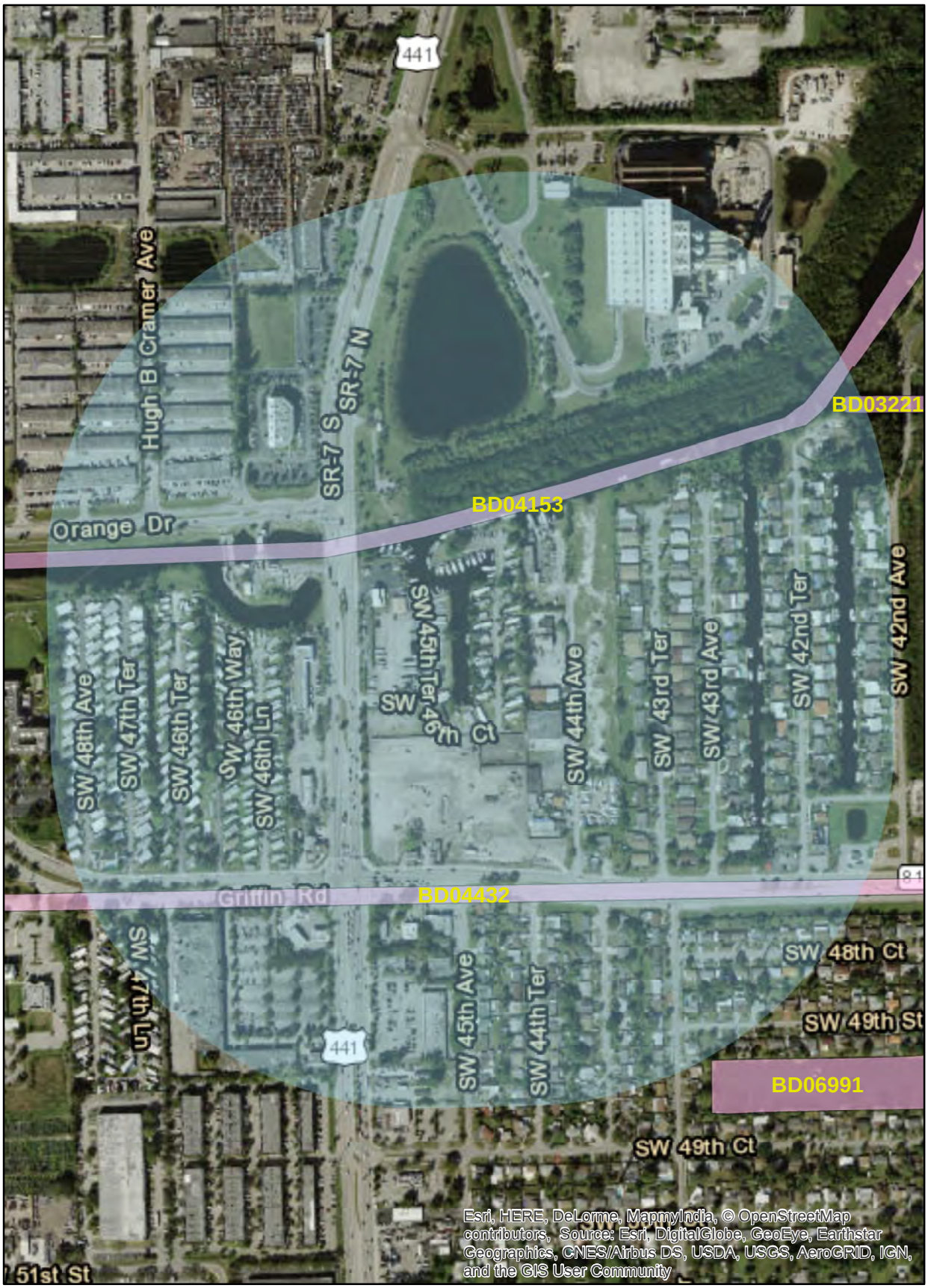
Exhibit L

Public School Impact Application

Insert PSIA

Exhibit M

State Historic Preservation Officer Correspondence



N

Legend

- Buffer_of_Project_Site
- FloridaSites
- HistoricalBridges
- FloridaStructures
- HistoricalCemeteries
- ResourceGroups

1:6,856

210 105 0 210 Meters

AR=0
SS=0
CM=0
RG=3
BR=0
Total=3

Cultural Resource Roster

SiteID	Type	Site Name	Address	Additional Info	SHPO Eval	NR Status
BD03221	RG	DANIA CANAL	Dania Beach	Linear Resource	Not Eligible	
BD04153	RG	South New River Canal	Dania Beach	Linear Resource	Eligible	
BD04432	RG	Griffin Road	Dania Beach	Linear Resource - 1 Contrib Resources	Not Eligible	

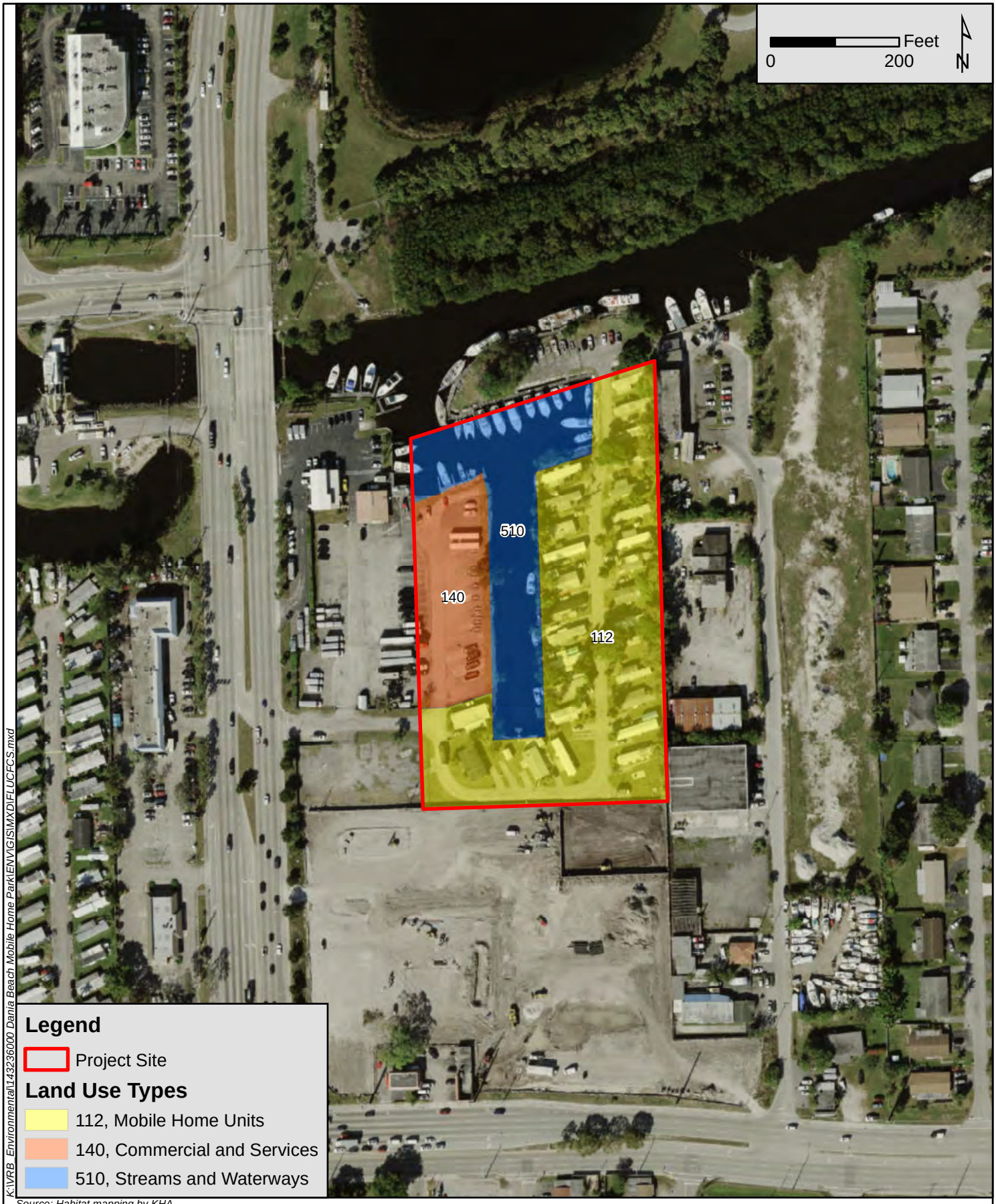
Manuscript Roster

Total=5

MS#	Title	Publication Information	Year
14770	A Cultural Resources Assessment for Florida's Turnpike SunNav Southern Arterial Dynamic Sign Message (DMS) Project. Broward, Dade and Palm Beach Counties, Florida	Post, Buckley, Schuh, & Jernigan, Inc., Tallahassee. Prepared for Florida's Turnpike Enterprise, Ocoee	2007
10428	An Archaeological and Historical Assessment for the Existing 45th Street Cellular Tower, Broward County, Florida	Environmental Services, Inc., Jacksonville. Submitted to Vertex Engineering Services, Inc.	2004
4075	An Archaeological Survey of Southeast Broward County, Florida: Phase 3	Archaeological and Historical Conservancy, Inc., Miami. Submitted to Broward County Office of Planning	1995
2710	Cultural Resource Assessment Survey of SR 7 (US 441) in Broward County, Florida	Report submitted to the Florida Division of Historical Resources, Tallahassee by the Florida Department of Transportation, Tallahassee.	1991
769	Archaeological Survey of Properties Designated for Construction of the Wingate Road Sludge Processing/disposal Facility and Connecting Pipeline Route to the NW 6th St. Pumping Station, Ft. Lauderdale	Ms. on file, FDHR/BAR.	1982

Exhibit N

Florida Land Use, Cover and Forms Classification System (FLUCFCS) Map



K:\VRB_Environmental\143236000 Dania Beach Mobile Home Park\ENV\GIS\MXD\FLUCFCS.mxd

Source: Habitat mapping by KHA

Kimley»Horn

© 2020 Kimley-Horn and Associates, Inc.
445 24th Street, Suite 200, Vero Beach, FL 32960
Phone (772) 794-4100
www.kimley-horn.com

Land Use Map

Dania Beach Mobile Home Park
Broward County, Florida

1 inch = 200 feet	PROJECT NUMBER: 143236000	MAY 2020	FIGURE 1

Exhibit O

Florida Natural Areas Inventory (FNAI) Report

1018 Thomasville Road
Suite 200-C
Tallahassee, FL 32303
850-224-8207
850-681-9364 fax
www.fnai.org

Florida Natural Areas Inventory

Biodiversity Matrix Query Results

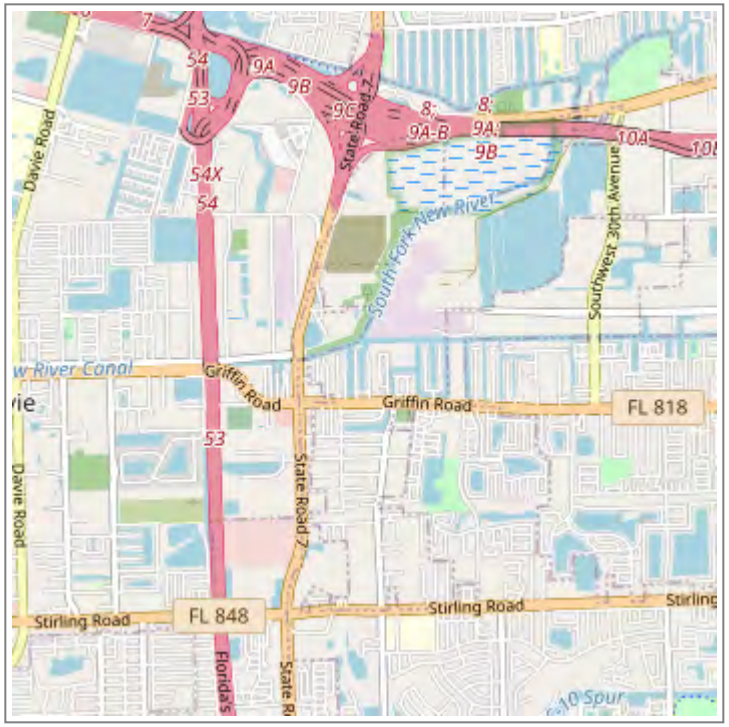
UNOFFICIAL REPORT

Created 5/26/2020

(Contact the FNAI Data Services Coordinator at 850.224.8207 or kbrinegar@fnai.fsu.edu for information on an official Standard Data Report)

NOTE: The Biodiversity Matrix includes only rare species and natural communities tracked by FNAI.

Report for 2 Matrix Units: 68200 , 68201



Descriptions

DOCUMENTED - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit.

DOCUMENTED-HISTORIC - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit; however the occurrence has not been observed/reported within the last twenty years.

LIKELY - The species or community is *known* to occur in this vicinity, and is considered likely within this Matrix Unit because:

1. documented occurrence overlaps this and adjacent Matrix Units, but the documentation isn't precise enough to indicate which of those Units the species or community is actually located in; *or*
2. there is a documented occurrence in the vicinity and there is suitable habitat for that species or community within this Matrix Unit.

POTENTIAL - This Matrix Unit lies within the known or predicted range of the species or community based on expert knowledge and environmental variables such as climate, soils, topography, and landcover.

Matrix Unit ID: 68200

0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

1 **Likely** Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mycteria americana Wood Stork	G4	S2	LT	FT

Matrix Unit ID: 68201

0 **Documented** Elements Found

1 **Documented-Historic** Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Manatee Aggregation Site	GNR	SNR	N	N

1 **Likely** Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mycteria americana Wood Stork	G4	S2	LT	FT

Matrix Unit IDs: 68200 , 68201

22 **Potential** Elements Common to Any of the 2 Matrix Units

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Athene cunicularia floridana Florida Burrowing Owl	G4T3	S3	N	SSC
Conradina grandiflora Large-flowered Rosemary	G3	S3	N	T
Drymarchon couperi Eastern Indigo Snake	G3	S3	LT	FT
Elytraria caroliniensis var. angustifolia Narrow-leaved Carolina Scalystem	G4T2	S2	N	N
Eumops floridanus Florida bonneted bat	G1	S1	LE	FE
Forestiera segregata var. pinetorum Florida Pinewood Privet	G4T2	S2	N	N
Glandularia maritima Coastal Vervain	G3	S3	N	E
Gopherus polyphemus Gopher Tortoise	G3	S3	C	ST
Jacquemontia curtissii	G2	S2	N	T

Pineland Jacquemontia				
Lechea cernua Nodding Pinweed	G3	S3	N	T
Lithobates capito Gopher Frog	G3	S3	N	SSC
Nemastylis floridana Celestial Lily	G2	S2	N	E
Phyllanthus pentaphyllus var. floridanus Florida Five-petaled Leaf-flower	G4T2	S2	N	N
Podomys floridanus Florida Mouse	G3	S3	N	SSC
Polygala smallii Tiny Polygala	G1	S1	LE	E
Pteroglossaspis ecristata Giant Orchid	G2G3	S2	N	T
Roystonea elata Florida Royal Palm	G2G3	S2	N	E
Sceloporus woodi Florida Scrub Lizard	G2G3	S2S3	N	N
Swietenia mahagoni West Indies Mahogany	G3G4	S3	N	T
Tantilla oolitica Rim Rock Crowned Snake	G1G2	S1S2	N	ST
Trichechus manatus West Indian Manatee	G2	S2	LE	FE
Trichomanes punctatum ssp. floridanum Florida Filmy Fern	G4G5T1	S1	E	E

Disclaimer

The data maintained by the Florida Natural Areas Inventory represent the single most comprehensive source of information available on the locations of rare species and other significant ecological resources statewide. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as a final statement on the biological resources of the site being considered, nor should it be substituted for on-site surveys. FNAI shall not be held liable for the accuracy and completeness of these data, or opinions or conclusions drawn from these data. FNAI is not inviting reliance on these data. Inventory data are designed for the purposes of conservation planning and scientific research and are not intended for use as the primary criteria for regulatory decisions.

Unofficial Report

These results are considered unofficial. FNAI offers a Standard Data Request option for those needing certifiable data.

Exhibit P

USACE Manatee Map for Broward County

Broward County

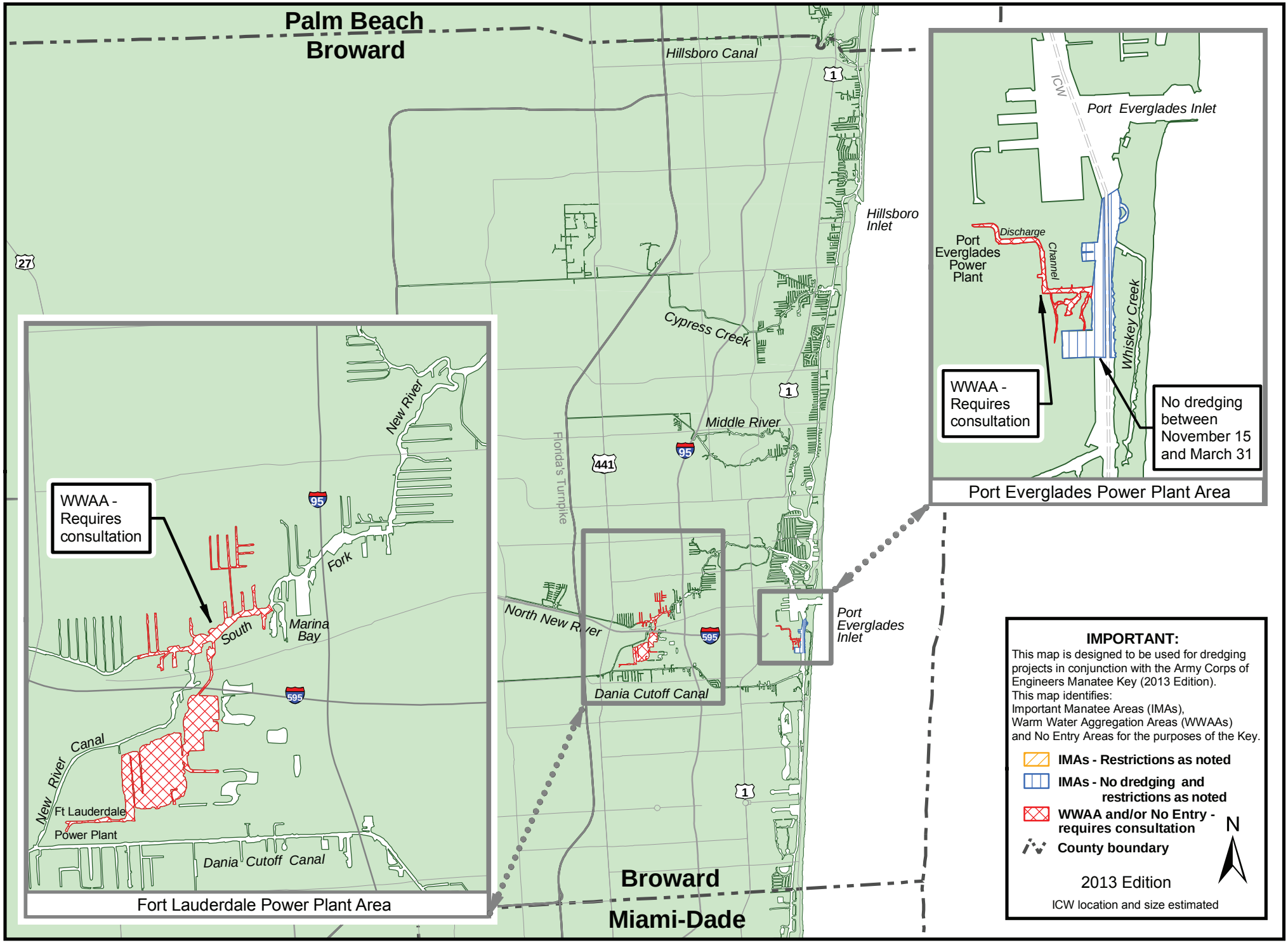
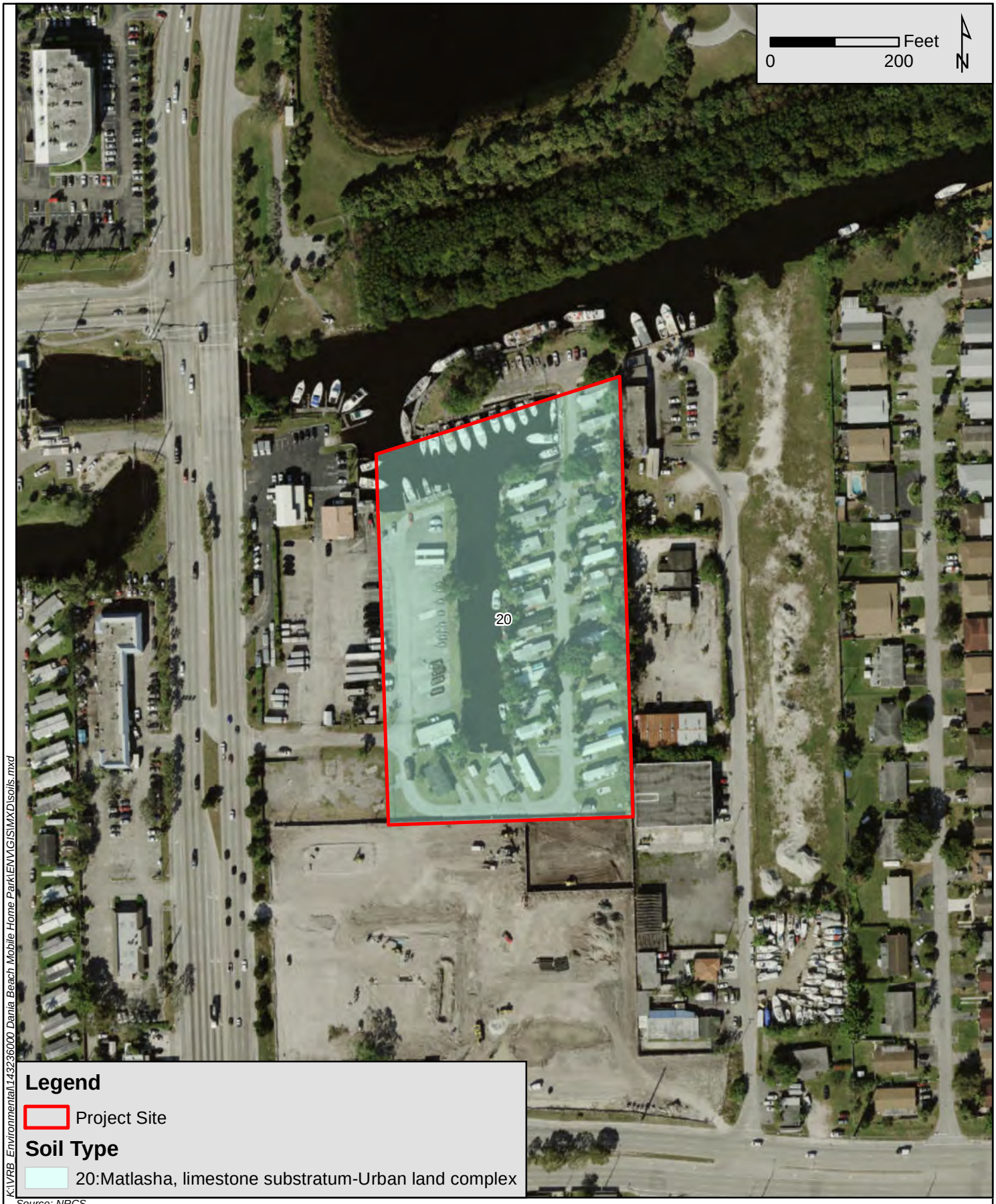


Exhibit Q

Soils Map



K:\VRB_Environmental\143236000 Dania Beach Mobile Home Park\ENV\GIS\MXD\soils.mxd

Source: NRCS

Kimley»Horn

© 2020 Kimley-Horn and Associates, Inc.
445 24th Street, Suite 200, Vero Beach, FL 32960
Phone (772) 794-4100
www.kimley-horn.com

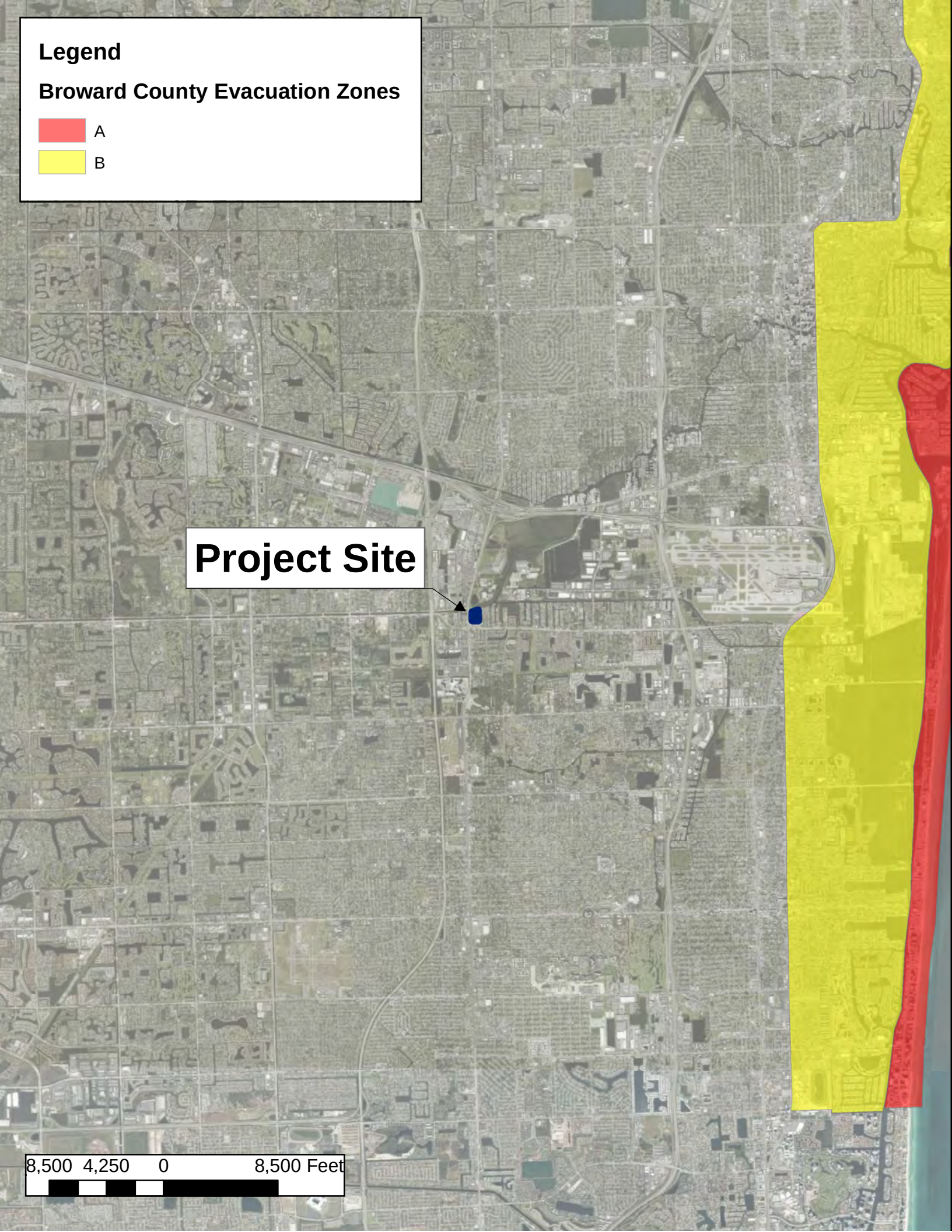
NRCS Soils Map

Dania Beach Mobile Home Park
Broward County, Florida

1 inch = 200 feet	PROJECT NUMBER: 143236000	MAY 2020	FIGURE 2

Exhibit R

Hurricane Evacuation Zone Map


Legend
Broward County Evacuation Zones
A
B
Project Site
8,500 4,250 0 8,500 Feet

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Ordinance

Continued from:

Requested Action (Identify appropriate Action or Motion)
ADOPT ORDINANCE APPROVING THE APPLICATION REQUEST (RZ-062-20), MADE BY 2900 SW 45TH DANIA BEACH, LLC, TO REZONE PROPERTY GENERALLY LOCATED AT 4695 SW 45TH TERRACE IN THE CITY OF DANIA BEACH, FLORIDA, WHICH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; CHANGING THE CURRENT ZONING CLASSIFICATION OF THE PROPERTIES FROM RMH MOBILE HOME DISTRICT TO PLANNED RESIDENTIAL DEVELOPMENT DISTRICT (PRD-1), SUBJECT TO CERTAIN RESTRICTIONS

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
CM RZ-062-20 Harbor Island Rezoning first reading, SR RZ-062-20 Harbor Island Rezoning first reading, O-2021- 2900 SW 45th Dania Beach (Harbor Landings) Rezoning (RZ-062-20), Location Map, 2020.08.06_Harbor.Landings_Rezoning_Comp.Plan.Consistency_Narrative.docx, Rezoning Application and Backup OPT

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistant Director
Richard Lorber, AICP, Planning and Zoning Manager

Eleanor Norena Digitally signed by Eleanor Norena DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US Date: 2020.11.18 14:21:28 -05'00'

Corinne Lajoie Digitally signed by Corinne Lajoie DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development Department, Planning Division, email=clajoie@daniabeachfl.gov, c=US Date: 2020.11.18 11:14:53 -05'00'

Richard Lorber Digitally signed by Richard Lorber DN: cn=Richard Lorber, o=City of Dania Beach, ou=P&Z, email=rlorber@daniabeachfl.gov, c=US Date: 2020.11.17 16:11:53 -05'00'

SUBJECT: **RZ-062-20:** The applicant, CCI Properties 1, Inc., is requesting a zoning map amendment to rezone the subject property from the existing Residential Mobile Home (RHM) District to the proposed Planned Residential Development (PRD-1) District for the property located at 4695 SW 45th Terrace. (FIRST READING)

REQUEST

REZONING

The applicant is requesting a zoning map amendment to rezone the subject property from the existing Residential Mobile Home (RHM) District to the proposed Planned Residential Development (PRD-1) District for the property located at 4695 SW 45th Terrace.

Background

Harbor Landing is a proposed residential development, located at 4695 SW 45th Terrace. It is part of a larger, mixed-use development adjacent to the west, which is situated within the City of Hollywood. The Dania Beach application is to permit the construction of an eight-story apartment building with 275 residential units (including 15% affordable housing) on the east portion of the development. The complete project entails applications to amend the Land Use and Zoning designations, and for Plat and Site Plan approval.

Budgetary Impact

The approval of this Rezoning application would allow redevelopment of the site to occur.

Recommendation

Approval.

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT

DATE: December 8, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistant Director
Richard Lorber, AICP, Planning and Zoning Manager

Eleanor Norena
Digitally signed by Eleanor Norena
DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US
Date: 2020.11.18 10:24:42 -05'00'

Corinne Lajoie
Digitally signed by Corinne Lajoie
DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development Department, Planning Division, email=clajoie@daniabeachfl.gov, c=US
Date: 2020.11.18 11:12:59 -05'00'

Richard Lorber
Digitally signed by Richard Lorber
DN: cn=Richard Lorber, o=City of Dania Beach, ou=P&Z, email=rlorber@daniabeachfl.gov, c=US
Date: 2020.11.17 16:12:30 -05'00'

SUBJECT: **RZ-062-20:** The applicant, CCI Properties 1, Inc., is requesting a zoning map amendment to rezone the subject property from the existing Residential Mobile Home (RHM) District to the proposed Planned Residential Development (PRD-1) District for the property located at 4695 SW 45th Terrace. (FIRST READING)

REZONING REQUEST

The applicant is requesting a zoning map amendment to rezone the subject property from the existing Residential Mobile Home (RHM) District to the proposed Planned Residential Development (PRD-1) District for the property located at 4695 SW 45th Terrace.

EXISTING ZONING:	Residential Mobile Home District (RHM)
PROPOSED ZONING:	Planned Residential Development District (PRD-1)
EXISTING FLUM DESIGNATION:	Low-Medium Residential (10 du/ac)
PROPOSED FLUM DESIGNATION:	Irregular Residential Density (50 du/ac) Pending LUPA Map Amendment LU-061-20
EXISTING USE:	Residential Mobile Home Park
PROPOSED USE:	275 Unit Multifamily Residential, including Affordable Housing Pending Site Plan Approval SP-058-20
SITE ADDRESS:	4695 SW 45th Terrace
SITE LOCATION:	Generally located NE of the intersection of Griffin Road and State Route 7 / US 441

SITE ACREAGE: ±5.5 gross acres

PUBLIC HEARING NOTICE
This item was duly advertised, posted and noticed pursuant to Article 610 of the LDC.

REZONING
Article 645 of the City's LDC states, requests for rezoning shall be referred to the Planning and Zoning Board for recommendation and the City Commission shall determine if the application meets the criteria identify in Section 645-40, which are identified below.

(1) The request is consistent with the city's comprehensive plan; and

(2) The request is consistent with all applicable redevelopment plans, corridor plans, neighborhood plans, and master plans approved by the city commission; and

(3) The request would not give privileges not generally extended to similarly situated property in the area, or result in an isolated district unrelated to adjacent or nearby districts; and

a. The request furthers the city's adopted community redevelopment plan, if applicable; or

b. An error or ambiguity must be corrected; or

c. There exists changed or changing conditions which make approval of the request appropriate; or

d. Substantial reasons exist why the property cannot be used in accordance with the existing zoning; or

e. The rezoning is appropriate for the orderly development of the city and is compatible with existing (conforming) adjacent land uses, and planned adjacent land uses.

The applicant has provided a criteria statement identifying how their request is consistent with these criteria (attached) in which they make the following statements:

The area in which the application is located is in the process of redeveloping. The area directly adjacent to the proposed project has been approved for and is actively being redeveloped with a mixed-use development encompassing multifamily, commercial retail, self-storage, and related public enhancements. The application is consistent with abutting land uses and zoning, as the SR7/US441 and Griffin Road area has Activity Center land-use with consistent local zoning that permits a use consistent with the proposed City of Dania Beach zoning designation.

The existing RMH zoning limits development on the subject property to mobile home use. The mobile home use is no longer a permitted use (Sec. 105-200(A)) and constitutes an underutilization of the subject property, particularly given the changing conditions around the application area. The surrounding area, both in the City of Dania Beach and the City of Hollywood, is redeveloping with mixed use development characterized by residential, hotel, commercial, and neighborhood

serving retail uses. The proposed rezoning is appropriate for the orderly development of the city and is compatible with existing (conforming) adjacent land uses, and planned adjacent land uses.

The applicant sent an early outreach letter to both residents and property owners along SW 43rd Terrace on September 8, 2020. In addition, the applicant has reached out the Griffin Civic Association and is awaiting their feedback, if any, on the site plan. The applicant will continue to conduct outreach on the process throughout the hearing process.

PLANNING AND ZONING BOARD ACTION

This application request requires a recommendation for the Planning and Zoning Board. The Planning and Zoning Board heard this item on October 21, 2020 where the motion to approved passed unanimously.

Recommendation

Adopt the ordinance approving the Rezoning application upon first reading.

Exhibit "B"

RZ-62-20

REZONING

CCI PROPERTIES 1 LLC
***HARBOR LANDINGS**

4695 SW 45 TERRACE

From:

Residential Mobile Home District (RHM)

To:

Planned Residential Development District (PRD-1)

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

0 40 80 160 240 320 Feet

ORDINANCE NO. 2021-005

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE APPLICATION REQUEST (RZ-062-20), MADE BY 2900 SW 45TH DANIA BEACH, LLC, TO REZONE PROPERTY GENERALLY LOCATED AT 4695 SW 45TH TERRACE IN THE CITY OF DANIA BEACH, FLORIDA, WHICH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE; CHANGING THE CURRENT ZONING CLASSIFICATION OF THE PROPERTIES FROM RMH MOBILE HOME DISTRICT TO PLANNED RESIDENTIAL DEVELOPMENT DISTRICT (PRD-1), SUBJECT TO CERTAIN RESTRICTIONS; PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, pursuant to Chapter 28, "Land Development Code," ("LDC") Part 6, "Development Review Procedures and Requirements," Article 645 "Rezoning" of the City Code of Ordinances (the "City Code"), CCI Properties 1, LLC (the "Applicant") has applied to the City of Dania Beach (the "City") for approval of a Rezoning (RZ-062-20) from RMH to PRD-1 for properties generally located at 4695 SW 45TH TERRACE, as legally described in Exhibit "A;" and

WHEREAS, the applicant has also submitted an application to amend the City of Dania Beach Future Land Use Plan Map (LU-061-20), for the subject property from "Low-Medium (10) Residential" to "Irregular (50 du/ac), in order to redevelop the existing mobile home park with multifamily residential use; and

WHEREAS, the applicant has also submitted an application for Plat approval (PL-060-20), as part of the same development proposal, all concurrently known as Harbor Landings; and

WHEREAS, the applicant has also submitted an application for Site Plan (SP-058-20) approval, proposing to remove the existing mobile home park and construct a 275-unit multifamily apartment building with a portion including affordable housing as part of a newly proposed larger development; and

WHEREAS, the City Planning and Zoning Board, sitting as the Local Planning Agency, held a duly advertised public hearing on August 19, 2020 and recommended approval of the Rezoning (RZ-062-20) request; and

WHEREAS, the City Commission conducted two (2) duly noticed public hearings in accordance with law; and

WHEREAS, the City Commission finds that the approval of the proposed Rezoning (RZ-062-20) will protect the public health, safety, and welfare of the residents of the City, and further the purpose, goals, objectives and policies of the Comprehensive Plan;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the preceding "WHEREAS" clauses are ratified and incorporated as a record of the legislative intent of this Ordinance.

Section 2. That pursuant to Chapter 28 "Land Development Code," Part 6 "Development Review Procedures and Requirements," Article 645 "Rezoning," the Rezoning request (RZ-062-20) from RMH to PRD-1 for the property generally located at 4695 SW 45TH TERRACE, as legally described in Exhibit "A," is approved.

Section 3. That issuance of a development permit by a municipality does not in any way create any right on the part of an applicant to obtain a permit from a state or deferral agency and does not create any liability on the part of the municipality for issuance of the permit if the applicant fails to first obtain requisite approvals or fulfill the obligations imposed by a state or federal agency or undertakes actions that result in a violation of state or federal law.

Section 4. That the associated Planning & Zoning Division Staff Report prepared for application RZ-062-20 and the graphic map attached as Exhibit "B" are hereby incorporated into this resolution as findings of fact.

Section 5. That if any section, clause, sentence or phrase of this Ordinance is for any reason held invalid or unconstitutional by a court of competent jurisdiction, the holding shall not affect the validity of the remaining portions of this Ordinance.

Section 6. That all ordinances or parts of ordinances in conflict with the provisions of this Ordinance are repealed to the extent of such conflict.

Section 7. That this Ordinance shall be effective immediately upon its passage and adoption on second reading.

PASSED on first reading on December 8, 2020.

PASSED AND ADOPTED on second reading on _____, 2021.

ATTEST:

_____	_____
THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

_____

THOMAS J. ANSBRO
CITY ATTORNEY

EXHIBIT "A"

LEGAL DESCRIPTION

Parcel 1
A portion of TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMAN'S SURVEY, according to the Plat thereof, recorded in Plat Book 2, Page 26 of the Public Records of Miami-Dade County, Florida; more fully described as follows:

COMMENCING at the intersection of the East Right-of-Way line of State Road No. 7 with the South line of said Section 25; thence Northerly along the said East Right-of-Way, North 02°06'55" East, 1111.80 feet to the intersection of the East Right-of-Way line of State Road No. 7 and the South Right-of-Way line of the South New River Canal Easement; thence Easterly along said South Right-of-Way, North 90°00'00" East, 181.59 feet; thence North 76°04'42" East, 19.28 feet to the POINT OF BEGINNING; thence continue North 76°04'42" East, 394.91 feet; thence South 02°12'46" West 686.55 feet; thence North 87°51'58" West, 378.37 feet; thence North 02°06'55" East, 577.47 feet to the POINT OF BEGINNING. Said lands situate, lying and being in Broward County, Florida.

EXHIBIT "B"

GRAPHIC MAP

Exhibit "B"

52-20

ONING

RTIES 1 LLC
LANDINGS

5 TERRACE

obile Home
M)

dential
District

BEACH
IT. LOVE IT.

Feet
240 320

Consistency with City of Dania Beach Comprehensive Plan:

The rezoning of the Property to PRD-1 Planned Residential Development District on the City's Zoning Map is consistent with the following Comprehensive Plan objectives and policies:

Future Land Use Element

Policy 1.1 Provide for a mix of residential communities which will promote a diverse population and a healthy environment.

Policy 5. 1 Encourage development to enhance the tax base of the community.

Housing Element

Objective I – Assist the private sector with the provision of 450 additional housing units between 1995 and 2005 and 1,073 total units by between 2005 and 2010. The housing will be of various types and affordability to existing and anticipated population growth.

Objective IV – The City shall reduce the deficit in the supply of affordable housing units by at least 5 units by the year 2000, by at least 25 units by the year 2005, and by at least 50 units by the year 2010.

Policy 4.3 Support programs designed to increase the income levels of low income households.

Policy 11.6 Promote mixed-use development that provides an array of housing types along transit corridors, including the establishment of a Local Activity Center (LAC) future land use designation, the development of mixed use zoning districts, and the allocation of flex units to mixed-use projects.

Transportation Element

Objective I – On an annual basis, through planning and land use regulation, the City shall continue to protect, maintain and improve the functional relationship between the multi-modal transportation system and the future land use map to ensure that the transportation system is convenient and meets the needs of existing and future residents and land use patterns.

Policy 1.11 Support Broward County Transit's efforts to encourage improved access to public transit through the provision of bicycle facilities, such as storage lockers, at appropriate locations, as new development occurs.

Policy 2.4 Encourage joint use of driveways and parking areas, and encourage the use of cross access easements among adjoining property owners to allow circulation between sites and reduce the number of vehicular access points along roadways. 9J-5.019(4) (c)7.

Objective III – On an annual basis, through participation with the MPO, FDOT, Broward County, and other entities, support and encourage multi-jurisdictional efforts that help ensure that the multi-modal transportation system is properly designed to support the development and redevelopment of the City while it experiences orderly growth and sustains the environment.

Objective V – The City shall assure, through planning, land use regulation, intergovernmental coordination, or land acquisition, that transportation improvements are located so as to not disrupt or adversely impact the City's residential communities or adjacent environmentally sensitive lands. 9J-5.019(4) (b) 3.

Holland & Knight

515 E. Las Olas Boulevard, Suite 1200 | Ft. Lauderdale, FL 33301 | T 954.525.1000 | F 954.463.2030
Holland & Knight LLP | www.hklaw.com

Debbie M. Orshefsky
(954) 468-7871
debbie.orshefsky@hklaw.com

July 2, 2020

Eleanor Norena
Director of Community Development
100 W Dania Beach Blvd
Dania Beach, FL 33004

Re: Harbor Landings (4695 SW 45th Terrace, Dania Beach, FL 33314)

Dear Ms. Norena:

On behalf of CCI Properties 1 LLC, we are hereby submitting applications for a concurrent city and county land use plan amendment, rezoning, site plan and plat approval for the "Harbor Landings" project. Harbor Landings is located at 4695 SW 45th Terrace, Dania Beach, FL 33314 near the intersection of SR 7/US441 and Griffin Road, and is comprised of a unified plan of development for a mixed-use project located in both the City of Dania Beach and the City of Hollywood. The portion of Harbor Landings in the City of Dania Beach includes a 275 unit multifamily apartment building; the portion of Harbor Landings in the City of Hollywood includes a 230 room hotel and 8,500 SF of commercial use.

The residential component in Dania Beach will provide new and affordable housing for a growing market to ensure residents of both Dania Beach and Hollywood can live in close proximity to transit and major employment centers. The design of Harbor Landings will provide a strong street presence along SR7/US441, enhanced pedestrian connectivity between the residential and commercial portions of the development, transient mooring for vessels along the Dania Cut, and new neighborhood serving commercial/retail opportunities. Harbor Landings is intended to operate as a unified development with multiple ownership and therefore, also submitted with these applications is a Reciprocal Easement Agreement which will be recorded prior to issuance of any building permits for the new development.

The applications submitted include:

- City and County Land Use Plan Amendments to permit 50 units per acre
- Site Plan Application – 275 Residential Units and Related Amenities
- Rezoning – RHM to PRD-1 (a related zoning text amendment was filed in June)

- Plat – Joint Application for Dania Beach and Hollywood Properties

We look forward to working with you and your staff to bring this exciting project to fruition.

Very truly yours,

HOLLAND & KNIGHT LLP

Debbie Orshefsky

Debbie M. Orshefsky

cc: Corinne Lajoie, Assistant Director (w/enclosure)

DANIA BEACH
SEE IT LIVE IT LOVE IT

City of Dania Beach, Florida
Department of Community Development
Planning and Zoning Division
(954) 924-6805 X3643
(954) 922-2687 Fax

Standard Development Application

- ☐ **Administrative Variance**
- ☐ **Land Use Amendment**
- ☐ **Plat**
- ☒ **Rezoning**
- ☐ **Site Plan**
- ☐ **Special Exception**
- ☐ **Variance**
- ☐ **Other:** _____ ***(SEE APPLICATION TYPE SCHEDULE ON PAGES 3 & 4)***

Date Rec'd: _____

Petition No.: _____

THIS APPLICATION WILL NOT BE ACCEPTED UNTIL IT IS COMPLETE AND SUBMITTED WITH ALL NECESARY DOCUMENTS. Refer to the application type at the top of this form and **"Required Documentation"** checklist to determine the supplemental documents required with each application.
For after the fact applications, the responsible contractor of record shall be present at the board hearing. Their failure to attend may impact upon the disposition of your application. As always, the applicant or their authorized legal agent must be present at all meetings. All projects must also obtain a building permit from the City Building Division. For more information please reference the **Dania Beach Land Development Code Part 6, Development Review Procedures and Requirements.**

Location Address: 4695 SW 45th Terrace, Dania Beach, FL 33314

Lot(s): _____ Block: _____ Subdivision: _____

Recorded Plat Name: _____

Folio Number(s): 504125010520 Legal Description: See survey

Applicant/Consultant/Legal Representative **(circle one)** CCI Properties 1, LLC

Address of Applicant: 4500 S State Road 7, Fort Lauderdale, FL 33314

Business Telephone: 954-583-7082 Home: _____ Fax: _____

E-mail address: andybardar@aol.com

Name of Property Owner: CCI Properties 1, LLC

Address of Property Owner: 4500 S State Road 7, Fort Lauderdale, FL 33314

Business Telephone: 954-583-7082 Home: _____ Fax: _____

Explanation of Request: Zoning change from RMH to PRD-1
*For **Plats** please provide proposed **Plat Name** for **Variances** please attach **Criteria Statement** as per **Section 625.40 of the Land Development Code.***

Prop. Net Acreage: 5.497 Gross Acreage: 5.497 Prop. Square Footage: 239,464 SF

Existing Use: Mobile Home Park Proposed Use: Multifamily

Is property owned individually, by a corporation, association, or a joint venture?
Corporation

AUTHORIZED REPRESENTATIVE

I/we are fully aware of the request being made to the City of Dania Beach. If I/We are unable to be present, I/we hereby authorize Debbie Orshefsky of Holland & Knight **(individual/firm) to represent me/us in all matters related to this application. I/we hereby acknowledge that the applicable fee was established to offset administrative costs and is not refundable.**

I/we are fully aware that all approvals automatically expire within 12 months of City of Dania Beach Planning and Zoning Board or City Commission approval, or pursuant to the expiration timeframe listed in Part 6 of the Dania Beach Land Development Code.

STATE OF FLORIDA
COUNTY OF BROWARD
The foregoing instrument was acknowledged

By: _____
(Owner / Agent signature*)

BEFORE ME THIS 30th **DAY OF** June **, 20**20

By:

Eric Metz
(Print name of person acknowledging)

_____
(Joint owner signature if applicable)

Notary _____

(Signature of Notary Public – State of Florida**)**

ERIC C METZ
Notary Public - State of Florida
Commission # GG 262299
My Comm. Expires Sep 25, 2022
Bonded through National Notary Assn.

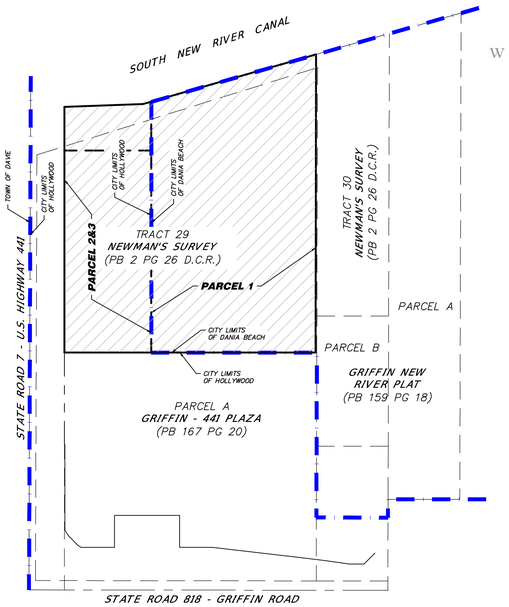
Personally known ✓ **or Produced Identification** _____

Type of identification produced: _____ **or Drivers License** _____

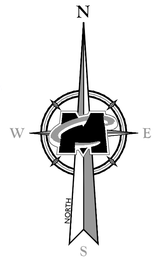
***If joint ownership, both parties must sign. If partnership, corporation or association, an authorized officer must sign on behalf of the group. A notarized letter of authorization from the owner of record must accompany the application if an authorized agent signs for the owner(s).**

NO APPLICATION WILL BE AUTOMATICALLY SCHEDULED FOR A MEETING.

ALL APPLICATIONS MUST BE DETERMINED COMPLETE BY STAFF BEFORE PROCESSING OCCURS.



LOCATION MAP
Not to Scale



LEGAL DESCRIPTION:

PARCEL 1

A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMAN'S SURVEY, ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 2, PAGE 26 OF THE PUBLIC RECORDS OF MIAMI–DADE COUNTY, FLORIDA MORE FULLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE EAST RIGHT–OF–WAY LINE OF STATE ROAD NO. 7 WITH THE SOUTH LINE OF SAID SECTION 25; THENCE NORTHERLY ALONG THE SAID EAST RIGHT–OF–WAY, NORTH 02°06"55" EAST, 1111.80 FEET TO THE INTERSECTION OF THE EAST RIGHT–OF–WAY LINE OF STATE ROAD NO. 7 AND THE SOUTH RIGHT–OF–WAY LINE OF THE SOUTH NEW RIVER CANAL EASEMENT; THENCE EASTERLY ALONG SAID SOUTH RIGHT–OF–WAY, NORTH 90°00'00" EAST, 181.59 FEET; THENCE NORTH 76°04'42" EAST, 19.28 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 76°04'42" EAST, 394.91 FEET; THENCE SOUTH 02°12'46" WEST 686.55 FEET; THENCE NORTH 87°51'58" WEST, 378.37 FEET; THENCE NORTH 02°06'55" EAST, 577.47 FEET TO THE POINT OF BEGINNING. SAID LANDS SITUATE, LYING AND BEING IN BROWARD COUNTY, FLORIDA. SAID PARCEL CONTAINING 239,463 S.F. (5.5 ACRES ±)

PARCEL IDENTIFICATION NUMBER: 504125010520

TOGETHER WITH

PARCEL 2 AND 3

A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMAN'S SURVEY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 2, PAGE 26, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA, MORE FULLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE EAST RIGHT–OF–WAY LINE OF STATE ROAD NO. 7 WITH THE SOUTH LINE OF SAID SECTION 25; THENCE NORTHERLY ALONG THE SAID EAST RIGHT–OF–WAY NORTH 02° 06' 55" EAST A DISTANCE OF 546.50 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTHERLY, NORTH 02° 06' 55" EAST 565.30 FEET THE INTERSECTION OF THE EAST RIGHT–OF–WAY LINE OF STATE ROAD NO.7 AND THE SOUTH RIGHT–OF–WAY LINE OF THE SOUTH NEW RIVER CANAL EASEMENT; THENCE EASTERLY ALONG SAID SOUTH RIGHT–OF–WAY NORTH 90° 00' 00" EAST, 181.59 FEET; THENCE NORTH 76° 04' 42" EAST, 19.28 FEET; THENCE SOUTH 02° 06' 55" WEST 577.33 FEET; THENCE WESTERLY, NORTH 87° 53' 04" WEST, 200.00 FEET TO THE POINT OF BEGINNING. SAID LANDS SITUATE, LYING AND BEING IN BROWARD COUNTY, FLORIDA. SAID PARCEL CONTAINING 113,840 S.F. (2.6 ACRES ±)

PARCEL IDENTIFICATION NUMBER: 504125010524 & 504125010528

RESTRICTIONS / EASEMENTS:

THE EASEMENTS, ENCUMBRANCES AND RESTRICTIONS EVIDENCED BY RECORDED DOCUMENTS AND/OR OTHER TITLE SEARCH REPORT PROVIDED TO THE SURVEYOR AS NOTED IN RESTRICTIONS/EASEMENTS, OF THE ATTORNEYS' TITLE FUND SERVICES, LLC, PROVIDE FOR: CLARK & MUNEY, PLLC, FUND FILE NUMBER: 861926 DATED MARCH 18, 2020, AS TO THE EXTENT THEY CAN BE LOCATED ARE SHOWN HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY AS FOLLOWS:

ITEM 2) ALL MATTERS CONTAINED ON THE PLAT OF NEWMAN'S SURVEY, AS RECORDED IN PLAT BOOK 2, PAGE 26, PUBLIC RECORDS OF MIAMI–DADE COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). THERE IS NOT RESTRICTIONS AND/OR EASEMENTS AS SHOWN ON THE FACE OF THE PLAT, HOWEVER THERE ARE RIGHT OF WAY DEDICATION AS SHOWN ON SAID PLAT THAT AFFECTS THE SUBJECT PROPERTY AND IT IS SHOWN HEREON.

ITEM 3) RESERVATIONS AS SET FORTH IN THE DEED FROM THE TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA RECORDED IN DEED BOOK 7, PAGE 576, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; HOWEVER, THE RIGHT OF ENTRY AND EXPLORATION ASSOCIATED WITH THE OIL AND MINERAL RESERVATION HAS BEEN RELEASED PURSUANT TO SEC. 270.11, F.S. (PARCELS 1, 2 AND 3). DOCUMENT PROVIDED TO THE SURVEYOR IS NOT READABLE.

ITEM 4) RESERVATIONS AS SET FORTH IN THE DEED FROM THE TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA RECORDED IN DEED BOOK 12, PAGE 508, WHICH WERE PARTIALLY RELEASED BY DEED BOOK 802, PAGE 467, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; HOWEVER, THE RIGHT OF ENTRY AND EXPLORATION ASSOCIATED WITH THE OIL AND MINERAL RESERVATION HAS BEEN RELEASED PURSUANT TO SEC. 270.11, F.S. (PARCELS 1, 2 AND 3). DOCUMENT PROVIDED TO THE SURVEYOR IS NOT READABLE.

ITEM 5) CANAL EASEMENT CONTAINED IN WARRANTY DEED RECORDED IN O.R. BOOK 2930, PAGE 28, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL AND IT IS PLOTTED HEREON.

ITEM 6) EASEMENT IN FAVOR OF CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT RECORDED IN O.R. BOOK 2986, PAGE 809, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL AND IT IS PLOTTED HEREON.

ITEM 7) EASEMENT IN FAVOR OF CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT RECORDED IN O.R. BOOK 2986, PAGE 811, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL AND IT IS PLOTTED HEREON.

ITEM 8) RESOLUTION OF THE CENTRAL BROWARD DRAINAGE DISTRICT RECORDED IN O.R. BOOK 3438, PAGE 60, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS NOT PLOTABLE.

ITEM 9) LICENSE AGREEMENT WITH BROWARD COUNTY RECORDED IN O.R. BOOK 4492, PAGE 777, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTABLE.

ITEM 10) BROWARD COUNTY ORDINANCE NO. 84–16 (Z) RECORDED IN O.R. BOOK 11676, PAGE 400, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). THE ZONING DISTRICT WITHIN BROWARD COUNTY, BE AND HEREBY ARE CHANGED BY REZONING THE SUBJECT PARCEL FROM T–1 MOBILE HOME PARK TO B–3 GENERAL BUSINESS, SAID DOCUMENT AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTABLE.

ITEM 11) TOWN OF DAVIE ORDINANCE NO. 85–97 RECORDED IN O.R. BOOK 13068, PAGE 486, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). DO NOT AFFECT THE SUBJECT PARCEL.

ITEM 12) EASEMENT IN FAVOR OF FLORIDA POWER & LIGHT COMPANY RECORDED IN O.R. BOOK 17127, PAGE 165, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER THE SKETCH AS SHOWN ON EXHIBIT A DOES NOT SHOW ENOUGH DIMENSIONS TO PLOT THE EASEMENT.

ITEM 13) CABLE TELEVISION INSTALLATION AND WIRING AGREEMENT WITH CABLE TV FUND 14–A/B VENTURE RECORDED IN O.R. BOOK 17453, PAGE 243, TOGETHER WITH AND AS AFFECTED BY RELEASE OF EASEMENT RECORDED IN O.R. BOOK 20804, PAGE 660, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTABLE.

ITEM 14) EASEMENT AGREEMENT BY AND BETWEEN SAM B. NEVEL, TRUSTEE, AND RAMGOH SALES COMPANY, INC. RECORDED IN O.R. BOOK 28676, PAGE 655, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS PARCEL A "GRIFFIN – 441 PLAZA", AS SHOWN ON PLAT BOOK 167 AT PAGE 20 FOR THE BENEFIT OF THE SUBJECT PARCEL, AND IT IS PLOTTED HEREON.

ITEM 15) MEMORANDUM OF LEASE FROM RAMGOH SALES, INC., LESSOR, TO NATIONAL ADVERTISING COMPANY, LESSEE, RECORDED IN O.R. BOOK 30829, PAGE 930, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS NOT A SURVEY MATTER.

ITEM 16) TERMS AND CONDITIONS OF THE NOTICE OF PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT RECORDED IN O.R. BOOK 32471, PAGE 1098, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS NOT A SURVEY MATTER.

ITEM 17) ORDINANCE NO. 2005–53 RECORDED IN O.R. BOOK 41179, PAGE 1696, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. DOES NOT AFFECTS THE SUBJECT PARCEL, HOWEVER IS NOT A SURVEY MATTER.

ITEM 18) COURTESY NOTICE OF SUPER PRIORITY STATUS OF CITY OF DANIA BEACH CODE ENFORCEMENT LIENS RECORDED IN O.R. BOOK 47083, PAGE 1671, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTTABLE.

ITEM 19) UTILITY EASEMENT AND LIFT STATION AGREEMENT RECORDED IN O.R. BOOK 47569, PAGE 1538, ASSIGNMENT OF UTILITY EASEMENT AND LIFT STATION AGREEMENT RECORDED IN INSTRUMENT NUMBER 116276435 AND 116276436, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTTABLE.

ITEM 20) NON–EXCLUSIVE ASSIGNMENT OF EASEMENT AGREEMENT RECORDED IN O.R. BOOK 47569, PAGE 1545, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE AND NOT PLOTTABLE.

ITEM 21) ACCESS EASEMENT AND AGREEMENT RECORDED IN O.R. BOOK 47569, PAGE 1551, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS PARCEL 2 AND 3 FOR THE BENEFIT OF PARCEL 1, AND IT IS PLOTTED HEREON.

ITEM 22) RIGHT OF WAY OCCUPANCY NOTICE OF PERMIT RECORDED IN INSTRUMENT NUMBER 113594665, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. (PARCELS 1, 2 AND 3). AFFECTS THE SUBJECT PARCEL, HOWEVER IS BLANKET IN NATURE NAD NOT PLOTTABLE.

SURVEYOR'S NOTES:

1. THE LEGAL DESCRIPTION OF THE SUBJECT PROPERTY IS THE SAME AS THE TITLE SEARCH REPORT AS PROVIDED ON FUND FILE NUMBER: 861926.

2. BEARING ARE BASED ON THE EAST RIGHT OF S.R.7 U.S. HIGHWAY 441 AS BEARS NORTH 01°51'43" WEST.

3. THIS SKETCH OF BOUNDARY SURVEY DOES NOT REPRESENT A MEAN HIGH WATER LINE SURVEY AS DEFINED UNDER CHAPTER 5J–17.050(G) FLORIDA ADMINISTRATIVE CODE OR DOES THIS SURVEY SUPPORT TO DETERMINE THE NATURE AND/OR LIMIT OF OWNERSHIP INTERESTS TO THE SUBMERGED LANDS ADJACENT TO THE SUBJECT PROPERTY. THE APPROXIMATELY SHORE LINE AS SHOWN HEREON REPRESENTS THE TOP OF BANK OF THE EXISTING WATERWAY AND NOT NECESSARILY THE SAFE UPLAND LINE AS DEFINED IN SAID CODE. THE MEAN HIGH WATER LINE AS SHOWN HEREON IS BASED ON ELEVATIONS TAKEN IN THE FIELD ON 02–19–2020, ELEVATION 0.37' NAVD88 BASED ON A TIDAL WATER SURVEY PROCEDURAL APPROVAL LETTER FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DATED 02–12–2020. THERE MAY BE ADDITIONAL SURVEY REQUIREMENTS NECESSARY TO ADDRESS THOSE SPECIFIC PERMIT PROCESSES IN ADDITION TO THE MEAN HIGH WATER LINE SURVEY.

4. ELEVATIONS ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM, 1988 (NAVD 88). ELEVATIONS ARE BASED ON FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 4 BRIDGE MONUMENTATION (BRIDGE NO. 860627) BENCHMARK NO. 860627B THE SAME BEING AN ALUMINUM DISK LOCATED 32' EAST OF EAST EDGE OF PAVEMENT OF SR 7 AND 522' NORTH OF NORTH LINE SAID BRIDGE, ELEVATION 5.05' AND BENCHMARK NO. 8696 X 182 RESET THE SAME BEING AN ALUMINUM DISK LOCATED 111' WEST OF EAST EDGE OF PAVEMENT OF SR 7 AND ALIGN WITH THE NORTH LINE OF SAID BRIDGE ELEVATION 8.65'.

5. THE ACCURACY OBTAINED FOR ALL HORIZONTAL CONTROL MEASUREMENTS AND OFFICE CALCULATIONS OF CLOSED GEOMETRIC FIGURES, MEETS OR EXCEEDS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS AS CONTAINED IN CHAPTER 5J–17.051 OF 1 FOOT IN 7,500 FEET FOR SUBURBAN AREAS.

6. THERE ARE NO DELINEATION OF THE PARKING SPACES WITHIN THE SURVEY AREA.

7. ALL UTILITIES SERVING THE PROPERTY ENTER THROUGH ADJOINING PUBLIC STREETS AND/OR EASEMENTS OF RECORD.

7. THERE ARE NO ENCROACHMENTS ONTO ADJOINING PREMISES, STREETS OR ALLEYS BY ANY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS LOCATED ON THE PROPERTY, AND NO ENCROACHMENTS ONTO THE PROPERTY BY BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS SITUATED ON ADJOINING PREMISES OTHER THAN SHOWN HEREON.

8. TOTAL GROSS LAND AREA IS 353,303 SQUARE FEET, 8.1 ACRES ±.

9. RIGHT OF WAY AS SHOWN HEREON IS BASED ON THE RECORDED PLAT AND RIGHT OF WAY MAP FOR STATE ROAD No. 7 SECTION No. 8610 (108–202). ANY NOTORIOUS EVIDENCE OF OCCUPATION AND/OR USE OF THE DESCRIBED PARCEL FOR RIGHT–OF–WAY, INGRESS OR EGRESS ARE SHOWN ON THIS SURVEY DRAWING. HOWEVER, THIS SURVEY DOES NOT PURPORT TO REFLECT ANY RECORDED INSTRUMENTS OR RIGHT–OF–WAY OTHER THAN AS SHOWN ON THE UNDERLYING RECORD PLAT OR AS STATED IN THE LEGAL DESCRIPTION OR AS NOTED IN THE RECORDED DOCUMENTS PROVIDED TO THE SURVEYOR.

10. A COMPARISON BETWEEN MEASURED (M), PLAT (P), DEED (D) AND CALCULATED (C) DIMENSIONS IS DELINEATED HEREON. MEASURED DIMENSIONS (M) ARE BASED DIRECTLY ON THE RECOVERED MONUMENTATION. DEED DIMENSIONS IS BASED ON THE LEGAL DESCRIPTION. PLATTED DIMENSIONS ARE BASED ON RECORDED PLAT 167 AT PAGE 20 OF THE PUBLIC RECORDS OF BROWARD COUNTY.

11. THE SUBJECT PROPERTY LIES WITHIN TWO FLOOD AREAS. THAT PORTION OF THE SUBJECT PROPERTY, LYING WITHIN THE WATERWAY, LIES WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THE NATIONAL FLOOD INSURANCE RATE MAP FOR CITY OF DANIA BEACH, AND CITY OF HOLLYWOOD, FLORIDA PANEL No. 12011C554H, COMMUNITY No. 120034 AND 125113, BEARING AN EFFECTIVE AND REVISED DATE OF AUGUST 18, 2014, DELINEATES THAT PORTION OF THE HEREIN DESCRIBED LAND LYING WITHIN THE SFHA TO BE SITUATED WITHIN ZONE AE, BASE FLOOD ELEVATION 4 FEET THE AREA WEST AND SOUTH OF THE WATERWAY LIES WITHIN THE SFHA TO BE SITUATED WITHIN ZONE AH, BASE FLOOD ELEVATION 5, THE BALANCE OF THE HEREIN DESCRIBED LANDS LIES WITHIN TWO ZONE X, AN AREA OUTSIDE OF THE 2% ANNUAL CHANCE FLOODPLAIN AND AN AREA OF THE 0.2% ANNUAL CHANGE FLOOD.

12. THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1/30 & 1/40 OR SMALLER.

13. NO FIELD DELINEATION OF WETLANDS WAS CONDUCTED.

14. THERE IS NO VISIBLE EVIDENCE OF EARTH MOVING WORK AND BUILDING CONSTRUCTION WITHIN THE SITE.

15. THE PROPERTY HAS DIRECT VEHICULAR AND PEDESTRIAN ACCESS TO SR7 U.S. HIGHWAY 441.

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ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	03/23/20	ALR	REVISED PER TITLE SEARCH REPORT FILE NUMBER: 861926.

AIMARA DIAZ LA ROSA
FLORIDA PROFESSIONAL
SURVEYOR & MAPPER - LICENSE NUMBER: LS6796

PORTION OF TRACT 29

FOR

CORPORATE COACHES INC & CCI PROPERTIES 1 LLC

NEWMAN'S SURVEY
(PLAT BOOK 2 PAGE 26)
DANIA BEACH/HOLLYWOOD
BROWARD COUNTY
FLORIDA

MIAMI OFFICE
8290 NW 64th Street
Miami, FL 33166
Phone: 305.597.9701
Fax: 305.597.9702

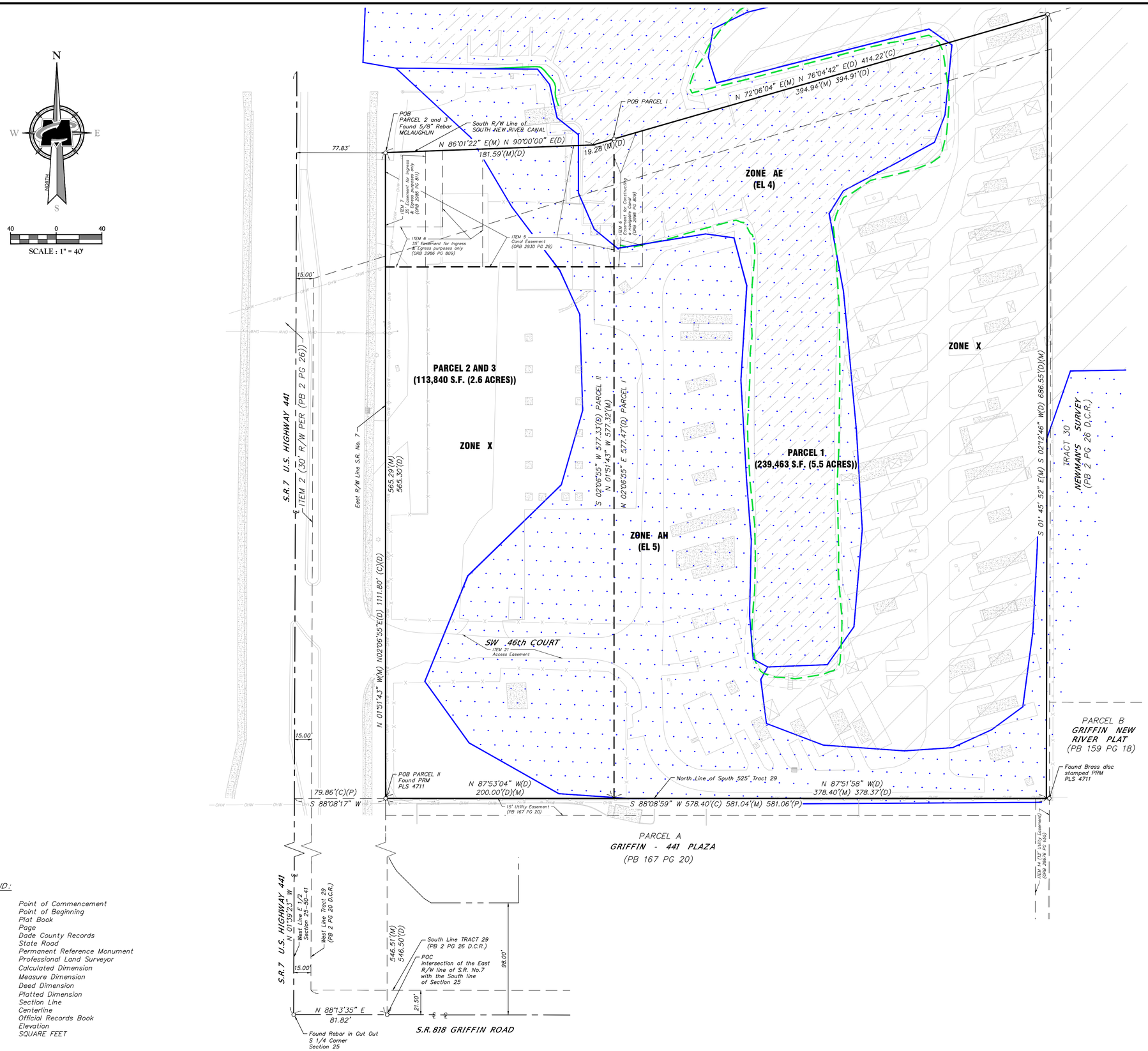
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	02/18/2020	ALR	ALR
PROJECT NUMBER: 19003639A	DRAWING NAME: V-SURV		

SHEET TITLE:
ALTA/NSPS
LAND TITLE SURVEY

SHEET NUMBER:
1 of 3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

3639A - Dania/Hollywood - Hess Real Estate Group/Survey/Acad/V-SURV/Acad/V-XXX-SURVEY By: ADIAZ



LEGEND:

POC	Point of Commencement
POB	Point of Beginning
PB	Plat Book
PG	Page
D.C.R.	Dade County Records
S.R.	State Road
PRM	Permanent Reference Monument
PLS	Professional Land Surveyor
(C)	Calculated Dimension
(M)	Measure Dimension
(D)	Deed Dimension
(P)	Platted Dimension
℄	Section Line
℄	Centerline
ORB	Official Records Book
EL	Elevation
S.F.	SQUARE FEET

3839A - Dania-Hollywood - Mesa Real Estate Group/Survey/dwg/V-XX-SURVEY (2) By: ADIAZ

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State of F.L. C.O.A.: 30301 / LB7388

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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	02/21/20	ALR	REVISED PER TITLE SEARCH REPORT FILE NUMBER: 861926.

AIMARA DIAZ LA ROSA
FLORIDA PROFESSIONAL
SURVEYOR & MAPPER - LICENSE NUMBER: LS6796

PORTION OF TRACT 29

FOR

CORPORATE COACHES INC & CCI PROPERTIES 1 LLC

NEWMAN'S SURVEY
(PLAT BOOK 2 PAGE 26)
DANIA
BEACH/HOLLYWOOD
BROWARD COUNTY
FLORIDA

MIAMI OFFICE
8290 NW 64th Street
Miami, FL 33166

Phone: 305.597.9701
Fax: 305.597.9702

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	02/18/2020	ALR	ALR

PROJECT NUMBER:	DRAWING NAME:
19003639A	V-SURV

SHEET TITLE:

ALTA/NSPS
LAND TITLE SURVEY

SHEET NUMBER:

2 of 3

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

LEGEND:

PB	Plat Book
PG	Page
D.C.R.	Dade County Records
S.R.	State Road
PRM	Permanent Reference Monument
PLS	Professional Land Surveyor
(C)	Calculated Dimension
(M)	Measure Dimension
(D)	Deed Dimension
(P)	Platted Dimension
$	Section Line
℄	Centerline
MB	Mailbox
CABX	Cable Box
A/C	Air Conditioner
WV	Water Valve
MHS	Sanitary Manhole
COMM	Communication Box
MHE	Electric Manhole
GA	Guy Anchor
ICV	Irrigation Control Valve
WM	Water Meter
EM	Electric Meter
CONC.	Concrete
SWK.	Sidewalk
EB	Electric Box
(E)	Electric Manhole
(S)	Sewer Manhole
	Electric Pole
	Sign
	Light Pole
OHW	Overhead Electric Line
	Guy Anchor
	Tree
	Palm

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State of F.L. C.O.A.: 30301 / LB7388

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811 PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
Know what's below. Call before you dig.
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION
1	03/23/20	ALR	REVISED PER TITLE SEARCH REPORT FILE NUMBER: 861926.

AIMARA DIAZ LA ROSA
FLORIDA PROFESSIONAL
SURVEYOR & MAPPER - LICENSE NUMBER: LS6796

PORTION OF TRACT 29

FOR

CORPORATE COACHES INC & CCI PROPERTIES 1 LLC

NEWMAN'S SURVEY
(PLAT BOOK 2 PAGE 26)
DANIA
BEACH/HOLLYWOOD
BROWARD COUNTY
FLORIDA

MIAMI OFFICE
8290 NW 64th Street
Miami, FL 33166
Phone: 305.597.9701
Fax: 305.597.9702

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	02/13/20	MCH	ALR
PROJECT NUMBER: 19003639A		DRAWING NAME: V-SURV (SH2)	

SHEET TITLE:
ALTA/NSPS
LAND TITLE SURVEY

SHEET NUMBER:
3 of 3

3639A - Dania Hollywood - Mega Real Estate Group\Survey\dwg\V-SURV (SH2).dwg\plot By: ADIAZ

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

Legend
Project Site
Existing Future Land Use (City)
Low (5) Residential
Low-Medium (10) Residential
Industrial
Water
230 115 0 230 Feet

Legend
Project Site
Existing Future Land Use (County)
Ocean/Waterbodies
Low (5) Residential
Low-Medium (10) Residential
Industrial
Regional Activity Center
Electrical Generation Facilities
230 115 0 230 Feet

Public Works Department • Water and Wastewater Services
WATER AND WASTEWATER ENGINEERING DIVISION
2555 West Copans Road • Pompano Beach Florida 33069
PHONE: 954-831-0745 • FAX: 954 831-0798/0925

Our Best. Nothing Less.

June 18, 2020

Botek Thurlow Engineering, Inc.
3409 NW 9th Avenue, Suite 1102
Ft. Lauderdale, FL 33309

RE: ABILITY TO PROVIDE POTABLE WATER & WASTEWATER SERVICE TO: HARBOR LANDINGS
FOLIO NO. 504125010520, 504125010524, 504125010528.

Dear Stephen:

Reference is made to your letter dated May 21st, 2020 (attached), regarding the ability of Broward County Water & Wastewater Services (WWS) to provide potable water and wastewater services to the reference development located within the FT. Lauderdale, FL.

Nothing in this letter reserves capacity for the referenced development or authorizes any construction. This letter is for informational purposes only, and a Utility Connection Permit must be obtained prior to work on WWS facilities. The developer must pay for and construct all improvements required to provide the required level of service for the project.

POTABLE WATER SUPPLY AND TREATMENT

The development will be supplied with potable water treated at the District 3 Water Treatment Plant (3AWTP). It will demand approximately 47,676 (GPD) gallons of potable water per day according to information supplied by Botek Thurlow Engineering, Inc to WWS. WWS has sufficient potable water and plant capacity to provide the service. There is a water distribution system available near the project.

WASTEWATER TREATMENT

Broward County water and Wastewater Services has pipes available for connection, however City of Hollywood City of Hollywood provides treatment. Please contact City of Hollywood for capacity.

Broward County Board of County Commissioners
Mark D. Bogen • Lamar P. Fisher • Beam Furr • Steve Geller • Dale V.C. Holness • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine
www.broward.org

Please contact me at (954) 831-0944 or mjaramillo@broward.org if you have any questions.

Sincerely,

Margarita Jaramillo

Land Development Coordinator

JM/bgb

C: Rolando Nigaglioni, P.E., BCEE, Planning and Development Manager
Jeremy Seiden, P.E., BCEE, PMP
File: W & WW Availability Requests

Botek Thurlow Engineering, Inc.
Civil Engineers

BTE Proj. No. 19-1001 Harbor Landings

May 21, 2020

Message:

This is a request for a letter of availability to supply water and wastewater to a proposed residential development to be constructed on the east side of State Road 7 (441) north of Griffin Road in the cities of Dania Beach and Hollywood within the Broward County Water and Wastewater Services area (District 3A).

Attached is a location map and the property survey. We are preparing preliminary civil engineering plans for site plan approval and a Land Use Plan Amendment.

A private lift station is required as gravity sewer is unavailable directly to the property. The force main will be connected to the existing BCWWS gravity system located in State Road 7 right of way.

The water and fire lines will be served from an on site looped system connected to the water mains also in 441, this system would be turned over to BCWWS.

The anticipated demands for water and sewer are

Residential Units (274 multi family)

274 x 174 GPD per unit (0.707 ERU's per unit)

1 ERU = 246 GPD

Demand = 274 x 174 = 47,676 Gallons Per Day (maximum day)

If you have any questions please call me at (954) 568-0888.

3409 NW 9th Avenue • Suite 1102 • Fort Lauderdale, FL 33309 • p. 954-568-0888, f. 954-568-0757
bte@botekthurlow-eng.com

Waste Management Inc. of Florida

8801 NW 91st Street
Medley, FL 33178
Mob. (786) 920-7412
E-MAIL: sgallitano@wm.com

6/17/2020
213.814.8829
CCI Properties 1, LLC
4500 S State Road 7
Ft. Lauderdale, FL 33301

RE: 4695 SW 45th Terrace Ft. Lauderdale, FL 33314

This letter is to confirm that Waste Management will not have any issues servicing the proposed 275 multifamily residential units with waste and/or recycling services at the above location. Should you have any questions please feel free to contact me.

Thank you,
Stephanie Gallitano
Market Sales Manager

PM PEAK HOUR TRIP GENERATION COMPARISON

EXISTING WEEKDAY PM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		GROSS VOLUMES			MULTIMODAL REDUCTION		EXTERNAL TRIPS			INTERNAL CAPTURE		NET NEW EXTERNAL TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS		
		Land Use	ITE Edition	ITE Code	Scale	ITE Units	Percent In	Percent Out	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
GROUP 1	1	Mobile Home Park	10	240	55	du	62%	38%	15	10	25	4.0%	1	14	10	24	0.0%	0	14	10	24	0.0%	0	14	10	24
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	3																									
	4																									
	5																									
	6																									
	7																									
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	9																									
	10																									
	11																									
	12																									
	13																									
	14																									
	15																									
		ITE Land Use Code		Rate or Equation				Total:	15	10	25	4.0%	1	14	10	24	0.0%	0	14	10	24	0.0%	0	14	10	24
		240		Y=0.46(X)																						

PROPOSED WEEKDAY PM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS					DIRECTIONAL DISTRIBUTION		GROSS VOLUMES			MULTIMODAL REDUCTION		EXTERNAL TRIPS			INTERNAL CAPTURE		NET NEW EXTERNAL TRIPS			PASS-BY CAPTURE		NET NEW EXTERNAL TRIPS		
		Land Use	ITE Edition	ITE Code	Scale	ITE Units	Percent In	Percent Out	In	Out	Total	Percent	MR Trips	In	Out	Total	Percent	IC Trips	In	Out	Total	Percent	PB Trips	In	Out	Total
GROUP 2	1	Multifamily (Mid-Rise)	10	221	275	du	61%	39%	71	46	117	4.0%	5	68	44	112	0.0%	0	68	44	112	0.0%	0	68	44	112
	2																									
	3																									
	4																									
	5																									
	6																									
	7																									
	8																									
	9																									
	10																									
	11																									
	12																									
	13																									
	14																									
	15																									
		ITE Land Use Code		Rate or Equation				Total:	71	46	117	4.0%	5	68	44	112	0.0%	0	68	44	112	0.0%	0	68	44	112
		221		LN(Y) = 0.96*LN(X)+-0.63																						

	IN	OUT	TOTAL
NET NEW TRIPS	54	34	88

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Resolution

Continued from:

Requested Action (Identify appropriate Action or Motion)
ADOPT RESOLUTION APPROVING THE “ANDY’S LAND” PLAT (PL-60-20) SUBMITTED BY PULICE LAND SURVEYORS INC., ON BEHALF OFCCI PROPERTIES 1, LLC FORPROPERTY LOCATED AT 4695 SW 45TH TERRACE IN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT “A”

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
CM PL-060-20 Andy's Land (Harbor Landings) Plat, SR PL-060-20 Andy's Land Plat (Harbor Island), R-2020- Andy's Land Plat (PL-60-20) CCI Properties 1 (Harbor Landings), Location Map, PLAT, Application and Backup PL-060-20

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistant Director
Richard Lorber, AICP, Planning and Zoning Manager

Eleanor Norena Digitally signed by Eleanor Norena DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US Date: 2020.11.18 16:22:19 -05'00'

Corinne Lajoie Digitally signed by Corinne Lajoie DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development Department, Planning Division, email=clajoie@daniabeachfl.gov, c=US Date: 2020.11.18 11:17:04 -05'00'

Richard Lorber Digitally signed by Richard Lorber DN: cn=Richard Lorber, o=City of Dania Beach, ou=P&Z, email=rlorber@daniabeachfl.gov, c=US Date: 2020.11.17 16:09:01 -05'00'

SUBJECT: **PL-060-20** - Andy's Land Plat (Harbor Landings): The applicant, CCI Properties 1, Inc., is requesting plat approval for the property located at 4695 SW 45th Terrace.

Request – Plat approval to develop the site with an eight-story apartment building with 275 residential units (including 15% affordable housing)

Background
Harbor Landing is a proposed residential development, located at 4695 SW 45th Terrace. It is part of a larger, mixed-use development adjacent to the west, which is situated within the City of Hollywood. The Dania Beach application is to permit the construction of an eight-story apartment building with 275 residential units (including 15% affordable housing) on the east portion of the development. The complete project entails applications to amend the Land Use and Zoning designations, and for Plat and Site Plan approval.

This Plat application is being processed concurrently with the Land Use Plan Amendment and Rezoning applications submitted by the applicant associated with the redevelopment of the site.

Budgetary Impact
Approval of the plat will allow the opportunity for the redevelopment of the site.

<u>Recommendation</u>
Approve the resolution.

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT

DATE: August 25, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistant Director
Richard Lorber, AICP, Planning and Zoning Manager

Eleanor Norena Digitally signed by Eleanor Norena DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US Date: 2020.11.18 14:21:42 -05'00'

Corinne Lajoie Digitally signed by Corinne Lajoie DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development, email=clajoie@daniabeachfl.gov, c=US Date: 2020.11.18 11:11:55 -05'00'

Richard Lorber Digitally signed by Richard Lorber DN: cn=Richard Lorber, o=City of Dania Beach, ou=P&Z, email=rlorber@daniabeachfl.gov, c=US Date: 2020.11.17 16:09:59 -05'00'

SUBJECT: **PL-060-20 - Andy's Land Plat (Harbor Landings):** The applicant, CCI Properties 1, Inc., is requesting plat approval for the property located at 4695 SW 45th Terrace.

Request

PLAT

Approval of Plat to enable development of the site with an eight-story apartment building with 275 residential units (including 15% affordable housing).

PROPERTY INFORMATION

EXISTING ZONING:	Residential Mobile Home District (RHM)
PROPOSED ZONING:	Planned Residential Development District (PRD-1)
EXISTING FLUM DESIGNATION:	Low-Medium Residential (10 du/ac)
PROPOSED FLUM DESIGNATION:	Irregular Residential Density (50 du/ac) Pending LUPA Map Amendment LU-061-20
EXISTING USE:	Residential Mobile Home Park
PROPOSED USE:	275 Unit Multifamily Residential, including Affordable Housing. Pending Site Plan Approval SP-058-20
SITE ADDRESS:	4695 SW 45th Terrace
SITE LOCATION:	Generally located NE of the intersection of Griffin Road and State Route 7 / US 441
SITE ACREAGE:	±5.5 gross acres

PUBLIC HEARING NOTICE

This item was duly advertised, posted, and noticed pursuant to Article 610 of the Land Development Code.

Background

Harbor Landing is a proposed residential development, located at 4695 SW 45th Terrace. It is part of a larger, mixed-use development adjacent to the west, which is situated within the City of Hollywood. The Dania Beach application is to permit the construction of an eight-story apartment building with 275 residential units (including 15% affordable housing) on the east portion of the development. The complete project entails applications to amend the Land Use and Zoning designations, and for Plat and Site Plan approval.

Development Review Committee (DRC)

The plat was reviewed by the DRC, which includes personnel from the BSO Fire, Public Services, the City's landscape consultant and Community Development Department's Planning Division, on July 30, 2020. All DRC requirements have been met.

Code Violations

There are no code violations.

Recommendation

Approve the resolution for the plat.

RESOLUTION NO. 2020-152

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE "ANDY'S LAND" PLAT (PL-60-20) SUBMITTED BY PULICE LAND SURVEYORS INC., ON BEHALF OF CCI PROPERTIES 1, LLC FOR PROPERTY LOCATED AT 4695 SW 45TH TERRACE IN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A"; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, pursuant to Chapter 28 of the Code of Ordinances of the City of Dania Beach (the "Code"), which chapter contains the City Land Development Code (the "LDC"), Part 6, "Development Review Procedures and Requirements", Article 640 "Plats", it is stated that since June 4, 1953, no principal building may be constructed on any lot unless a plat including the lot has been approved by both the City Commission and County Commission, and recorded in the official records of Broward County; and

WHEREAS, Pulice Land Surveyors Inc, on behalf of CCI Properties 1, LLC (the "Applicant"), is requesting plat approval (PL-60-20) for property legally described in attached Exhibit "A", which is made a part of and is incorporated into this Resolution by this reference; and

WHEREAS, the "Andy's Land " Plat (PL-60-20), includes property located in the City of Dania Beach and in the City of Hollywood, the portion of the Plat located in the City of Dania Beach is restricted to 275 dwelling units; and

WHEREAS, on July 30, 2020, the City's Development Review Committee (the "DRC"), which includes representatives from the Broward Sheriff's Office, Broward Fire Department, Public Services Department, the City's landscape consultant and the Planning Division staff, reviewed the plat for compliance with all applicable regulations; and

WHEREAS, staff recommends approval of the plat for the proposed development; and

WHEREAS, the City Commission conducted a duly noticed public hearing in accordance with Article 640 of the LDC; and

WHEREAS, the City Commission finds that the approval of the proposed plat will protect the public health, safety and welfare of residents of the City, and furthers the purposes, goals, objectives and policies of the City's Comprehensive Plan.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the foregoing "WHEREAS" clauses are ratified and confirmed as being true and correct, and they are made a specific part of this Resolution.

Section 2. That this certain application for the "Andy's Land" Plat (PL-60-20), a copy of which is attached as Exhibit "B", which is made a part of and incorporated into this Resolution by this reference, is approved as to the portion of the plat located in the City of Dania Beach with a maximum of 275 multifamily residential dwelling units.

Section 3. That the issuance of a development permit by a municipality does not in any way create any right on the part of an Applicant to obtain a permit from a state or federal agency, and does not create any liability on the part of the municipality for issuance of the permit if the Applicant fails to obtain requisite approvals or does not fulfill the obligations imposed by a state or federal agency, or undertakes actions that result in a violation of state or federal law.

Section 4. That such application must be reviewed by the Broward County Aviation Department; the point of contact is William Castillo, Airport Planner located at 220 S.W. 45 Street, Suite 101, Dania Beach, Florida, 33312, (954) 359-6100.

Section 5. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 6. That this Resolution shall be in force and take effect immediately upon its passage and adoption.

PASSED AND ADOPTED December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

EXHIBIT "A"

Legal Description

A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMANS SURVEY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN P.B. 2, PG. 26, OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, MORE FULLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF "GRIFFIN CENTRE", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 183, PAGE 197, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; THENCE SOUTH 88°09'28" WEST, ALONG THE NORTH LINE OF SAID "GRIFFIN CENTRE", 581.06 FEET TO THE NORTHWEST CORNER OF SAID "GRIFFIN CENTRE"; THENCE NORTH 01°51'40" WEST, ALONG THE EAST RIGHT-OF-WAY LINE OF STATE ROAD NO. 7 (U.S. HIGHWAY NO. 441) 565.30 FEET TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF THE SOUTH NEW RIVER CANAL; THENCE NORTH 86°01'25" EAST, ALONG SAID SOUTH RIGHT-OF-WAY LINE, 181.59 FEET; THENCE CONTINUE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE NORTH 72°06'07" EAST 418.00 FEET; THENCE SOUTH 01°41'00" EAST ALONG THE EAST LINE OF SAID TRACT 29 FOR 687.66 FEET TO THE POINT OF BEGINNING.

SAID LANDS SITUATE, LYING AND BEING IN THE CITY OF DANIA BEACH AND THE CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA, AND CONTAINING 8.161 ACRES, MORE OR LESS.

EXHIBIT "B"

PLAT

2-20
1-20
0-20

NING
USE
AT

RTIES 1 LLC
LANDINGS

TERRACE

FER
T PROPERTY

EACH
LOVE IT.

Feet
390 520

ANDY'S LAND

A REPLAT OF A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, "NEWMAN'S SURVEY" (P.B. 2, PG. 26, DADE COUNTY RECORDS) IN SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, CITY OF DANIA BEACH AND CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA

LEGAL DESCRIPTION:

A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMANS SURVEY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN P.B. 2, PG. 26, OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, MORE FULLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF "GRIFFIN CENTRE", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 183, PAGE 197, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; THENCE SOUTH 88°09'28" WEST, ALONG THE NORTH LINE OF SAID "GRIFFIN CENTRE", 581.06 FEET TO THE NORTHWEST CORNER OF SAID "GRIFFIN CENTRE"; THENCE NORTH 01°51'40" WEST, ALONG THE EAST RIGHT-OF-WAY LINE OF STATE ROAD NO. 7 (U.S. HIGHWAY NO. 441) 565.30 FEET TO TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF THE SOUTH NEW RIVER CANAL; THENCE NORTH 86°01'25" EAST, ALONG SAID SOUTH RIGHT-OF-WAY LINE, 181.59 FEET; THENCE CONTINUE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE NORTH 72°06'07" EAST 418.00 FEET; THENCE SOUTH 01°41'00" EAST ALONG THE EAST LINE OF SAID TRACT 29 FOR 687.66 FEET TO THE POINT OF BEGINNING.

SAID LANDS SITUATE, LYING AND BEING IN THE CITY OF DANIA BEACH AND THE CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA, AND CONTAINING 8.161 ACRES, MORE OR LESS.

DEDICATION:

KNOW ALL MEN BY THESE PRESENTS: THAT CORPORATE COACHES, INC., A FLORIDA CORPORATION, AND CCI PROPERTIES 1, LLC, A FLORIDA LIMITED LIABILITY COMPANY, THE OWNERS OF THE LANDS DESCRIBED HEREON, HAVE CAUSED SAID LANDS TO BE PLATTED AS SHOWN HEREON, AND TO BE KNOWN AS ANDY'S LAND, A REPLAT.

1. PARCEL RW AS SHOWN HEREON IS HEREBY DEDICATED AND GRANTED IN FEE SIMPLE TO THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FOR THE PERPETUAL USE OF THE PUBLIC FOR ROADWAY PURPOSES.

IN WITNESS WHEREOF: SAID CORPORATE COACHES, INC., A FLORIDA CORPORATION, HAS CAUSED THESE PRESENTS TO BE SIGNED FOR AND ON ITS BEHALF BY ANDREW BARDAR, ITS PRESIDENT, IN THE PRESENCE OF THESE TWO WITNESSES, THIS _____ DAY OF _____, 202__.

WITNESSES:

BY: _____

PRINT NAME: _____

BY: _____

PRINT NAME: _____

CORPORATE COACHES, INC.,
A FLORIDA CORPORATION

BY: _____
ANDREW BARDAR
PRESIDENT

ACKNOWLEDGMENT:

STATE OF FLORIDA
COUNTY OF BROWARD SS

I HEREBY CERTIFY: THAT ON THIS DAY PERSONALLY APPEARED BEFORE ME, AN OFFICER DULY AUTHORIZED TO ADMINISTER OATHS AND TAKE ACKNOWLEDGMENTS, ANDREW BARDAR, PRESIDENT OF CORPORATE COACHES, INC., A FLORIDA CORPORATION, TO ME KNOWN TO BE THE PERSON DESCRIBED IN AND WHO ACKNOWLEDGED BEFORE ME THAT HE EXECUTED THE SAME FREELY AND VOLUNTARILY ON BEHALF OF THE CORPORATION FOR THE USES AND PURPOSES THEREIN EXPRESSED.

WITNESS: MY HAND AND OFFICIAL SEAL THIS _____ DAY OF _____, 202__.

COMMISSION NUMBER: _____

_____
NOTARY PUBLIC, STATE OF FLORIDA

MY COMMISSION EXPIRES: _____ PRINT NAME: _____

DEDICATION (CONTINUED)

IN WITNESS WHEREOF: SAID CCI PROPERTIES 1, LLC, A FLORIDA LIMITED LIABILITY COMPANY, HAS CAUSED THESE PRESENTS TO BE SIGNED FOR AND ON ITS BEHALF BY ANDREW R. BARDAR, ITS MANAGER, IN THE PRESENCE OF THESE TWO WITNESSES, THIS DAY OF _____, 202__.

WITNESSES:

BY: _____

PRINT NAME: _____

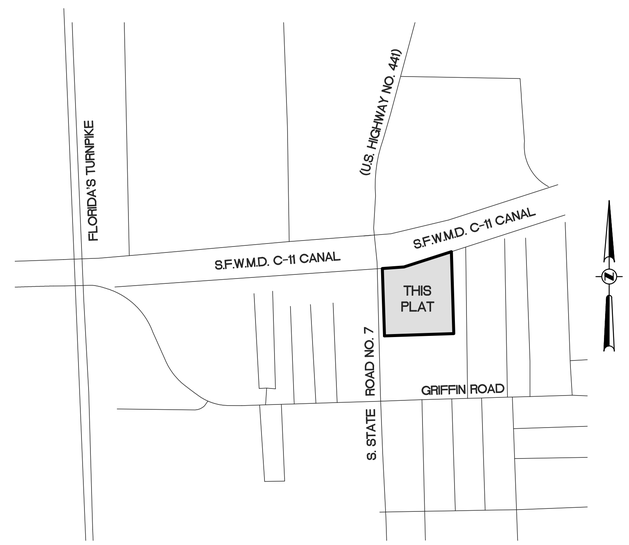
BY: _____

PRINT NAME: _____

CCI PROPERTIES 1, LLC
A FLORIDA LIMITED LIABILITY COMPANY

BY: _____
ANDREW R. BARDAR
MANAGER

PREPARED BY
PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
954-572-1777
FAX NO. 954-572-1778
JUNE 2020



LOCATION MAP
NOT TO SCALE

ACKNOWLEDGMENT:

STATE OF FLORIDA
COUNTY OF BROWARD SS

I HEREBY CERTIFY: THAT ON THIS DAY PERSONALLY APPEARED BEFORE ME, AN OFFICER DULY AUTHORIZED TO ADMINISTER OATHS AND TAKE ACKNOWLEDGMENTS, ANDREW R. BARDAR, MANAGER OF CCI PROPERTIES 1, LLC, A FLORIDA LIMITED LIABILITY COMPANY, TO ME KNOWN TO BE THE PERSON DESCRIBED IN AND WHO ACKNOWLEDGED BEFORE ME THAT HE EXECUTED THE SAME FREELY AND VOLUNTARILY ON BEHALF OF THE COMPANY FOR THE USES AND PURPOSES THEREIN EXPRESSED.

WITNESS: MY HAND AND OFFICIAL SEAL THIS _____ DAY OF _____, 202__.

COMMISSION NUMBER: _____

_____
NOTARY PUBLIC, STATE OF FLORIDA

MY COMMISSION EXPIRES: _____ PRINT NAME: _____

CORPORATE COACHES, INC.	DANIA CITY CLERK	DANIA CITY ENGINEER	COUNTY SURVEYOR	COUNTY ENGINEER	PLATTING SURVEYOR

CITY OF DANIA BEACH, CITY COMMISSION:

THIS IS TO CERTIFY, THAT THIS PLAT HAS BEEN APPROVED AND ACCEPTED BY THE CITY OF DANIA BEACH, FLORIDA, BY RESOLUTION NO. _____ ADOPTED THIS _____ DAY OF _____, 202__.

ALL APPLICABLE CONCURRENCY/IMPACT FEES FOR THE CONSTRUCTION, EXPANSION, AND/OR CONVERSION OF A BUILDING WITHIN THIS PLAT SHALL BE PAID ON THE DATE OF BUILDING PERMIT ISSUANCE.

ATTEST: _____ APPROVED: _____
CITY CLERK MAYOR

CITY OF DANIA BEACH COMMUNITY DEVELOPMENT DEPARTMENT:

THIS IS TO CERTIFY THAT THIS PLAT HAS BEEN APPROVED AND ACCEPTED BY THE COMMUNITY DEVELOPMENT DEPARTMENT OF THE CITY OF DANIA BEACH, BROWARD COUNTY, FLORIDA, THIS_____ DAY OF _____, 202__.

BY: _____

NAME: _____
DIRECTOR / DESIGNEE

CITY OF DANIA BEACH CITY ENGINEER:

THIS PLAT IS HEREBY APPROVED FOR RECORD THIS _____ DAY OF_____, 202__.

BY: _____

NAME: _____

FLORIDA P.E. REGISTRATION NO: _____

BROWARD COUNTY ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT DEPARTMENT:

THIS IS TO CERTIFY: THAT THIS PLAT HAS BEEN APPROVED AND ACCEPTED FOR RECORD.

BY: _____ _____
DIRECTOR/DESIGNEE DATE

BROWARD COUNTY PLANNING COUNCIL:

THIS IS TO CERTIFY: THAT THE BROWARD COUNTY PLANNING COUNCIL HAS APPROVED THIS PLAT SUBJECT TO ITS COMPLIANCE WITH THE DEDICATION OF RIGHTS-OF-WAY FOR TRAFFICWAYS THIS _____ DAY OF _____, 20___.

BY: _____
CHAIRPERSON

THIS PLAT COMPLIES WITH THE APPROVAL OF THE BROWARD COUNTY PLANNING COUNCIL OF THE ABOVE DATE AND IS APPROVED AND ACCEPTED FOR RECORD THIS _____ DAY OF _____, 20___.

BY: _____
EXECUTIVE DIRECTOR OR DESIGNEE

BROWARD COUNTY FINANCE AND ADMINISTRATIVE SERVICES DEPARTMENT, COUNTY RECORDS DIVISION - MINUTES SECTION:

THIS IS TO CERTIFY: THAT THIS PLAT COMPLIES WITH THE PROVISIONS OF CHAPTER 177, FLORIDA STATUTES, AND WAS ACCEPTED FOR RECORD BY THE BOARD OF COUNTY COMMISSIONERS OF BROWARD COUNTY, FLORIDA, THIS _____ DAY OF _____, 20___.

BY: _____
MAYOR, COUNTY COMMISSION

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION:

THIS IS TO CERTIFY: THAT THIS PLAT HAS BEEN REVIEWED FOR CONFORMITY WITH CHAPTER 177, PART 1, FLORIDA STATUTES AND APPROVED AND ACCEPTED FOR RECORD.

BY: _____ . BY: _____ .

ROBERT P. LEGG, JR. DATE
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION NO. LS4030

ALEJANDRO S. PEREZ DATE
ACTING COUNTY ENGINEER
FLORIDA PROFESSIONAL ENGINEER
REGISTRATION NO. 33217

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY: THAT THE ATTACHED PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE LAND RECENTLY SURVEYED, SUBDIVIDED AND PREPARED UNDER MY DIRECTION AND SUPERVISION, THAT THE SURVEY DATA COMPLIES WITH ALL OF THE APPLICABLE REQUIREMENTS OF CHAPTER 177, FLORIDA STATUTES, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, AND THAT THE PERMANENT REFERENCE MONUMENTS (P.R.M.'S) AND PERMANENT CONTROL POINTS (P.C.P.'S) WERE SET IN ACCORDANCE WITH SAID CHAPTER 177.

_____

DONNA C. WEST DATE
PROFESSIONAL SURVEYOR AND MAPPER NO. LS4290
STATE OF FLORIDA
PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FL 33351
CERTIFICATE OF AUTHORIZATION NO. LB3870

PLAT FILE NO. -MP-20

ANDY'S LAND

A REPLAT OF A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, "NEWMAN'S SURVEY" (P.B. 2, PG. 26, DADE COUNTY RECORDS) IN SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, CITY OF DANIA BEACH AND CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA

PREPARED BY
PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
954-572-1777
FAX NO. 954-572-1778
JUNE 2020

MORTGAGEE CONSENT:

KNOW ALL MEN BY THESE PRESENTS: THAT RAMGOH SALES COMPANY, INC., A FLORIDA CORPORATION, THE OWNER AND HOLDER OF A MORTGAGE ON THE PROPERTY DESCRIBED HEREON, DOES HEREBY CONSENT TO THIS PLAT AND JOINS IN THE DEDICATIONS AS SHOWN HEREON.

IN WITNESS WHEREOF: RAMGOH SALES COMPANY, INC., A FLORIDA CORPORATION, HAS CAUSED THESE PRESENTS TO BE SIGNED FOR AND ON ITS BEHALF BY CHRISTOPHER MARTIN, ITS VICE PRESIDENT, IN THE PRESENCE OF THESE TWO WITNESSES THIS _____ DAY OF _____, A.D. 202__.

WITNESSES:

BY: _____

PRINT NAME: _____

BY: _____

PRINT NAME: _____

RAMGOH SALES COMPANY, INC.
A FLORIDA CORPORATION

BY: _____
CHRISTOPHER MARTIN
VICE PRESIDENT

ACKNOWLEDGMENT:

STATE OF FLORIDA
COUNTY OF BROWARD SS

I HEREBY CERTIFY: THAT ON THIS DAY PERSONALLY APPEARED BEFORE ME, AN OFFICER DULY AUTHORIZED TO ADMINISTER OATHS AND TAKE ACKNOWLEDGEMENTS, CHRISTOPHER MARTIN, VICE PRESIDENT OF RAMGOH SALES COMPANY, INC., A FLORIDA CORPORATION, WHO IS PERSONALLY KNOWN TO ME AND WHO EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGED THE EXECUTION THEREOF TO BE HIS/HER FREE ACT AND DEED AS SUCH OFFICER FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS: MY HAND AND OFFICIAL SEAL THIS _____ DAY OF _____, 202__.

COMMISSION NUMBER: _____

_____
NOTARY PUBLIC, STATE OF FLORIDA

MY COMMISSION EXPIRES: _____ PRINT NAME: _____

MORTGAGEE CONSENT:

KNOW ALL MEN BY THESE PRESENTS: THAT WELLS FARGO BANK, NATIONAL ASSOCIATION, THE OWNER AND HOLDER OF A MORTGAGE ON THE PROPERTY DESCRIBED HEREON, DOES HEREBY CONSENT TO THIS PLAT AND JOINS IN THE DEDICATIONS AS SHOWN HEREON.

IN WITNESS WHEREOF: WELLS FARGO BANK, NATIONAL ASSOCIATION, HAS CAUSED THESE PRESENTS TO BE SIGNED FOR AND ON ITS BEHALF BY _____, ITS _____, IN THE PRESENCE OF THESE TWO WITNESSES THIS _____ DAY OF _____, A.D. 202__.

WITNESSES:

BY: _____

PRINT NAME: _____

BY: _____

PRINT NAME: _____

WELLS FARGO BANK,
NATIONAL ASSOCIATION

BY: _____

PRINT NAME: _____

TITLE: _____

ACKNOWLEDGMENT:

STATE OF FLORIDA
COUNTY OF BROWARD SS

I HEREBY CERTIFY: THAT ON THIS DAY PERSONALLY APPEARED BEFORE ME, AN OFFICER DULY AUTHORIZED TO ADMINISTER OATHS AND TAKE ACKNOWLEDGEMENTS, _____, _____ OF WELLS FARGO BANK, NATIONAL ASSOCIATION, WHO IS PERSONALLY KNOWN TO ME AND WHO EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGED THE EXECUTION THEREOF TO BE HIS/HER FREE ACT AND DEED AS SUCH OFFICER FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS: MY HAND AND OFFICIAL SEAL THIS _____ DAY OF _____, 202__.

COMMISSION NUMBER: _____

_____
NOTARY PUBLIC, STATE OF FLORIDA

MY COMMISSION EXPIRES: _____ PRINT NAME: _____

CITY OF HOLLYWOOD CITY COMMISSION:

THIS IS TO CERTIFY: THAT THIS PLAT WAS APPROVED AND ACCEPTED BY THE CITY COMMISSION OF THE CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA, BY RESOLUTION NO. _____, ADOPTED THIS _____ DAY OF _____, 202__ AND BY SAID RESOLUTION ALL PUBLIC EASEMENTS AS SHOWN ON THIS PLAT WERE ACCEPTED IN THE NAME OF SAID CITY AND ALL PREVIOUS PLATS OF THIS LAND ARE CANCELED AND SUPERSEDED.

NO BUILDING PERMITS SHALL BE ISSUED FOR THE CONSTRUCTION, EXPANSION, AND/OR CONVERSION OF A BUILDING WITHIN THIS PLAT UNTIL SUCH TIME AS THE DEVELOPER PROVIDES THIS MUNICIPALITY WITH WRITTEN CONFIRMATION FROM BROWARD COUNTY THAT ALL APPLICABLE CONCURRENCY/IMPACT FEES HAVE BEEN PAID OR ARE NOT DUE.

ATTEST: _____
CITY CLERK

BY: _____
MAYOR

CITY OF HOLLYWOOD CITY ENGINEER:

THIS PLAT IS APPROVED AND ACCEPTED FOR RECORD THIS _____ DAY OF _____, 202__.

BY: _____
LUIS A. LOPEZ
CITY ENGINEER
FLORIDA P.E. REGISTRATION #51559

RAMGOH SALES COMPANY, INC.	HOLLYWOOD CITY CLERK	HOLLYWOOD CITY ENGINEER

ANDY'S LAND

A REPLAT OF A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, "NEWMAN'S SURVEY" (P.B. 2, PG. 26, DADE COUNTY RECORDS) IN SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, CITY OF DANIA BEACH AND CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA

PREPARED BY
PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
954-572-1777
FAX NO. 954-572-1778
JUNE 2020

SURVEYORS NOTES:

1) THIS PLAT IS RESTRICTED TO 275 MID-RISE UNITS, 230 HOTEL ROOMS, AND 11,500 SQUARE FEET OF COMMERCIAL RETAIL.

THIS NOTE IS REQUIRED BY CHAPTER 5, ARTICLE IX, BROWARD COUNTY CODE OF ORDINANCES, AND MAY BE AMENDED BY APPROVAL OF THE BROWARD COUNTY BOARD OF COUNTY COMMISSIONERS. THE NOTATION AND ANY AMENDMENTS THERETO ARE SOLELY INDICATING THE APPROVED DEVELOPMENT LEVEL FOR PROPERTY LOCATED WITHIN THE PLAT AND DO NOT OPERATE AS A RESTRICTION IN FAVOR OF ANY PROPERTY OWNER INCLUDING AN OWNER OR OWNERS OF PROPERTY WITHIN THIS PLAT WHO TOOK TITLE TO THE PROPERTY WITH REFERENCE TO THIS PLAT.

ANY STRUCTURE WITHIN THIS PLAT MUST COMPLY WITH SECTION IV, D.1.f., DEVELOPMENT REVIEW REQUIREMENTS, OF THE BROWARD COUNTY LAND USE PLAN, REGARDING HAZARDS TO AIR NAVIGATION.

2A) IF A BUILDING PERMIT FOR A PRINCIPAL BUILDING (EXCLUDING DRY MODELS, SALES AND CONSTRUCTION OFFICES) AND FIRST INSPECTION APPROVAL ARE NOT ISSUED BY _____, 20__, THEN THE COUNTY'S FINDING OF ADEQUACY SHALL EXPIRE AND NO ADDITIONAL BUILDING PERMITS SHALL BE ISSUED UNTIL SUCH TIME AS BROWARD COUNTY SHALL MAKE A SUBSEQUENT FINDING THAT THE APPLICATION SATISFIES THE ADEQUACY REQUIREMENTS SET FORTH WITHIN THE BROWARD COUNTY LAND DEVELOPMENT CODE. THE OWNER OF THE PROPERTY OR THE AGENT OF THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING EVIDENCE TO BROWARD COUNTY FROM THE APPROPRIATE GOVERNMENTAL ENTITY, DOCUMENTING COMPLIANCE WITH THIS REQUIREMENT WITHIN THE ABOVE REFERENCED TIME FRAME: AND/OR

B) IF CONSTRUCTION OF PROJECT WATER LINES, SEWER LINES, DRAINAGE, AND THE ROCK BASE FOR INTERNAL ROADS HAVE NOT BEEN SUBSTANTIALLY COMPLETED BY _____, 20__, THEN THE COUNTY'S FINDING OF ADEQUACY SHALL EXPIRE AND NO ADDITIONAL BUILDING PERMITS SHALL BE ISSUED UNTIL SUCH TIME AS BROWARD COUNTY SHALL MAKE A SUBSEQUENT FINDING THAT THE APPLICATION SATISFIES THE ADEQUACY REQUIREMENTS SET FORTH WITHIN THE BROWARD COUNTY LAND DEVELOPMENT CODE. THE OWNER OF THE PROPERTY OR THE AGENT OF THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING EVIDENCE TO BROWARD COUNTY FROM THE APPROPRIATE GOVERNMENTAL ENTITY, DOCUMENTING COMPLIANCE WITH THIS REQUIREMENT WITHIN THE ABOVE REFERENCED TIME FRAME.

3) THE FOLLOWING NOTE IS REQUIRED BY THE BROWARD COUNTY SURVEYOR PURSUANT TO CHAPTER 177.091, SUBSECTION (28), FLORIDA STATUTES. PLATTED UTILITY EASEMENTS ARE ALSO EASEMENTS FOR THE CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES; PROVIDED, HOWEVER, NO SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION OF CABLE TELEVISION SERVICES SHALL INTERFERE WITH THE FACILITIES AND SERVICES OF AN ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. IN THE EVENT A CABLE TELEVISION COMPANY DAMAGES THE FACILITIES OF A PUBLIC UTILITY, IT SHALL BE SOLELY RESPONSIBLE FOR THE DAMAGES. THIS NOTE DOES NOT APPLY TO PRIVATE EASEMENTS GRANTED TO OR OBTAINED BY A PARTICULAR ELECTRIC, TELEPHONE, GAS, OR OTHER PUBLIC UTILITY. SUCH CONSTRUCTION, INSTALLATION, MAINTENANCE, AND OPERATION SHALL COMPLY WITH THE NATIONAL ELECTRIC SAFETY CODE AS ADOPTED BY THE FLORIDA PUBLIC SERVICE COMMISSION.

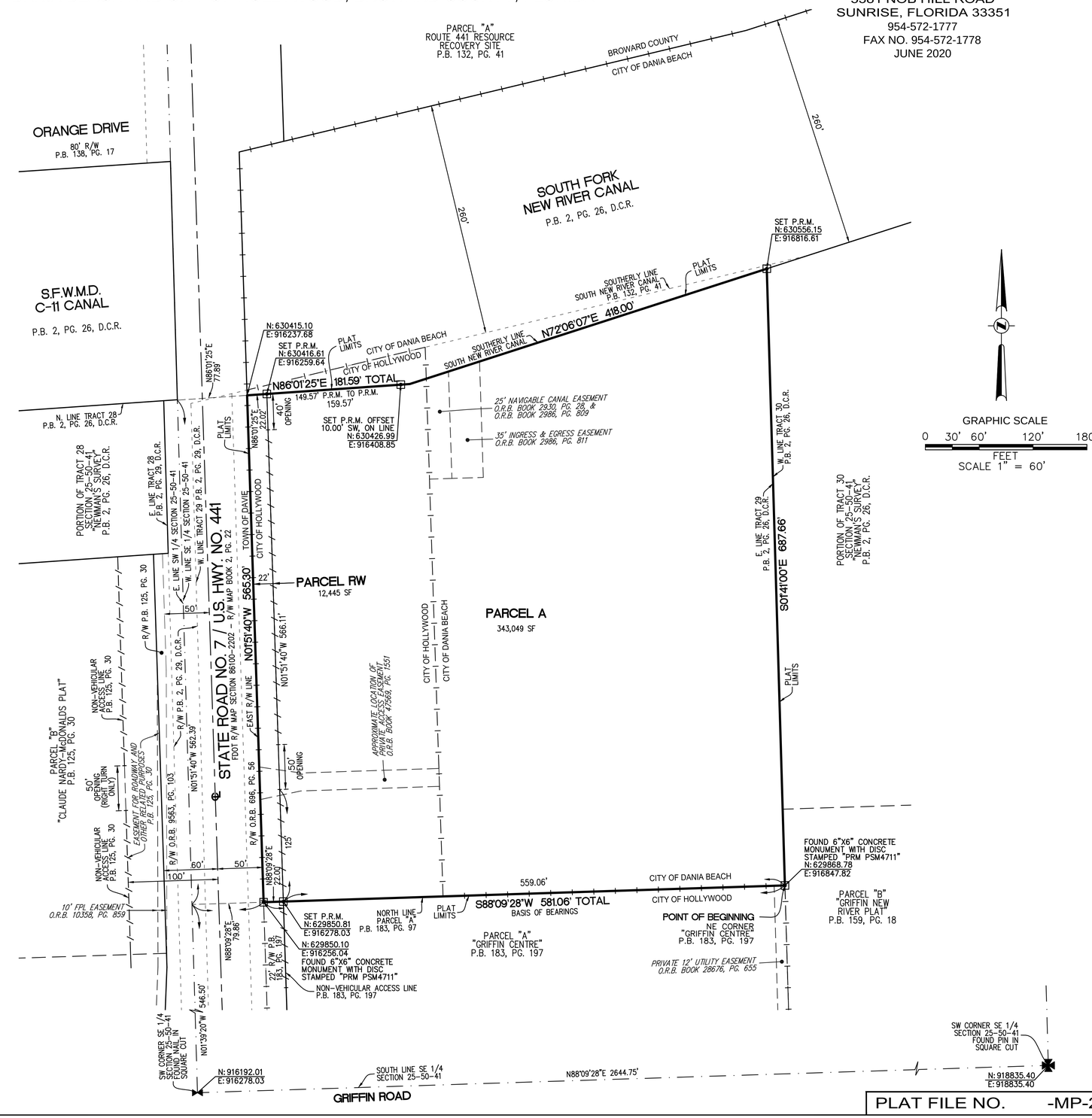
4) THE STATE PLANE COORDINATES AND GRID BEARINGS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN DATUM OF 1983, WITH THE 1990 ADJUSTMENT FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, AS SHOWN ON STONER/KEITH RESURVEY NO, III, ALL OF TOWNSHIP 50 SOUTH, RANGE 41 EAST, AND THE HIATUS LYING BETWEEN RANGE 40 EAST, AND RANGE 41 EAST IN TOWNSHIP 50 SOUTH MISCELLANEOUS P.B. 5, PG. 9, BROWARD COUNTY RECORDS. BASIS OF BEARINGS LINE BEING THE NORTH LINE OF "GRIFFIN CENTRE", P.B. 183, PG. 197, BEING S88°09'28"W.

5) NOTICE: THIS PLAT, AS RECORDED IN ITS GRAPHIC FORM, IS THE OFFICIAL DEPICTION OF THE SUBDIVIDED LANDS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCES BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE PLAT. THERE MAY BE ADDITIONAL RESTRICTIONS THAT ARE NOT RECORDED ON THIS PLAT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

6) ALL RECORDED DOCUMENTS DEPICTED HEREON ARE RECORDED IN THE PUBLIC RECORDS OF BROWARD COUNTY UNLESS OTHERWISE NOTED.

LEGEND:

⊙	= P.R.M. (SET 4" X 4" X 24" CONCRETE MONUMENT WITH 2" ALUMINUM DISC STAMPED "PRM LB 3870" UNLESS OTHERWISE NOTED)
—/—/—	= NON-VEHICULAR ACCESS LINE
—I—	= CITY LIMITS
✱	= SECTION CORNER
⧓	= QUARTER SECTION CORNER
℄	= CENTERLINE
D.C.R.	= DADE COUNTY RECORDS
E:	= STATE PLANE COORDINATE EASTING
FDOT	= FLORIDA DEPARTMENT OF TRANSPORTATION
LB	= LICENSED BUSINESS
N:	= STATE PLANE COORDINATE NORTHING
O.R.B.	= OFFICIAL RECORD BOOK
P.B.	= PLAT BOOK
PG.	= PAGE
P.R.M.	= PERMANENT REFERENCE MONUMENT
PSM	= PROFESSIONAL SURVEYOR AND MAPPER
R/W	= RIGHT-OF-WAY
SF	= SQUARE FEET



PLAT FILE NO. -MP-20

PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FL 33351
Phone: (954) 572-1777 Fax: (954) 572-1778
surveys@pulicelandsurveyors.com

July 2, 2020

Ms. Corinne Lajoie, AICP
Principal City Planner
Community Development Department
100 W. Dania Beach Boulevard
Dania Beach, FL 33004

RE: "ANDY'S LAND" PLAT – 4695 SW 45th TERRACE, FOLIO # 504125010520

Dear Ms. Lajoie,

Please accept the enclosed plat application package as part of the improvement plan of the above-referenced property. The complete envisioned plan consists of a mixed use development that embraces two properties adjacent to the west (4500 S. State Road 7) and the parcel to the immediate south of it, both situated within the City of Hollywood.

The Dania Beach application relates to the east portion of the development, proposed to contain an eight-story building with 275 residential units. The complete project entails additional Land Use and Rezoning applications and a Site Plan; all being submitted concurrently with the name of "Harbor Landings".

We are uploading:

1. Completed application, signed & notarized.
2. Copy of check in the amount of $3,410.00, calculated as: $2,550.00 (base fee) + $300 ($50 per/acre for the portion contained within the City) + $560.00 for Fire Dept. review. The check will be sent via FedEx with a copy of the application.
3. Warranty Deed with proof of authorized signature attached.
4. Agent Authorization form.
5. Proof of Property Taxes paid for the year 2019.
6. Plat.
7. Survey.
8. Conceptual Site Plan.

We will submit the application to Broward County soon and will provide you with our Case number when assigned.

I look forward to work with you and as always, I appreciate your time and assistance.

Thank you,
PULICE LAND SURVEYORS, INC.

Elizabeth Tsouroukdissian
Platting Assistant

DANIA BEACH
SEA IT LIVE IT LOVE IT

City of Dania Beach, Florida
Department of Community Development
Planning and Zoning Division
(954) 924-6805 X3643
(954) 922-2687 Fax

Standard Development Application

- ☐ **Administrative Variance**
- ☐ **Land Use Amendment**
- ☑ **Plat**
- ☐ **Rezoning** — **Date Rec'd:** _____
- ☐ **Site Plan**
- ☐ **Special Exception** — **Petition No.:** _____
- ☐ **Variance**
- ☐ **Other:** _____ ***(SEE APPLICATION TYPE SCHEDULE ON PAGES 3 & 4)***

THIS APPLICATION WILL NOT BE ACCEPTED UNTIL IT IS COMPLETE AND SUBMITTED WITH ALL NECESARY DOCUMENTS. Refer to the application type at the top of this form and **"Required Documentation"** checklist to determine the supplemental documents required with each application.
For after the fact applications, the responsible contractor of record shall be present at the board hearing. Their failure to attend may impact upon the disposition of your application. As always, the applicant or their authorized legal agent must be present at all meetings. All projects must also obtain a building permit from the City Building Division. For more information please reference the **Dania Beach Land Development Code Part 6, Development Review Procedures and Requirements.**

Location Address: 4695 SW 45th Terrace

Lot(s): n/a Block: n/a Subdivision: n/a

Recorded Plat Name: Not platted

Folio Number(s): 504125010520 Legal Description: SEE ATTACHED

Applicant/Consultant/Legal Representative **(circle one)** PULICE LAND SURVEYORS, Inc.

Address of Applicant: 5381 Nob Hill Road, Sunrise, FL 33351

Business Telephone: (954)572-1777 Home: — Fax: (954)572-1778

E-mail address: elizabeth@pulicelandsurveyors.com

Name of Property Owner: CCI PROPERTIES 1, LLC

Address of Property Owner: 4500 S. State Road 7, Hollywood, FL 33314

Business Telephone: (213)814-8829 Home: — Fax: —

Explanation of Request: "ANDY'S LAND" PLAT
*For **Plats** please provide proposed **Plat Name** for **Variances** please attach **Criteria Statement** as per **Section 625.40 of the Land Development Code.***

Prop. Net Acreage: _____ Gross Acreage: _____ Prop. Square Footage: _____

Existing Use: _____ Proposed Use: _____

Is property owned individually, by a corporation, association, or a joint venture?
LLC - Limited Liability Company

AUTHORIZED REPRESENTATIVE

I/we are fully aware of the request being made to the City of Dania Beach. If I/We are unable to be present, I/we hereby authorize PULICE LAND SURVEYORS, Inc **(individual/firm) to represent me/us in all matters related to this application. I/we hereby acknowledge that the applicable fee was established to offset administrative costs and is not refundable.**

I/we are fully aware that all approvals automatically expire within 12 months of City of Dania Beach Planning and Zoning Board or City Commission approval, or pursuant to the expiration timeframe listed in Part 6 of the Dania Beach Land Development Code.

STATE OF FLORIDA
COUNTY OF BROWARD
The foregoing instrument was acknowledged

By: _____
(Owner / Agent signature*)

BEFORE ME THIS 22 **DAY OF** May, **20** 20

By:

ANDREW BARDAR
(Print name of person acknowledging)

_____
(Joint owner signature if applicable)

Notary _____

(Signature of Notary Public – State of FL**)**

ERIC C METZ
Notary Public - State of Florida
Commission # GG 262299
My Comm. Expires Sep 25, 2022
Bonded through National Notary Assn.

Personally known ✓ **or Produced Identification** _____

Type of identification produced: _____ **or Drivers License** _____

***If joint ownership, both parties must sign. If partnership, corporation or association, an authorized officer must sign on behalf of the group. A notarized letter of authorization from the owner of record must accompany the application if an authorized agent signs for the owner(s).**

NO APPLICATION WILL BE AUTOMATICALLY SCHEDULED FOR A MEETING.

ALL APPLICATIONS MUST BE DETERMINED COMPLETE BY STAFF BEFORE PROCESSING OCCURS.

CASH ONLY IF ALL *CheckLock™* SECURITY FEATURES LISTED ON BACK INDICATE NO TAMPERING OR COPYING

CORPORATECOACHES
Florida's Leading Transportation Provider

P.O. BOX 17825
PLANTATION, FL 33318-7825
PH (954) 452-7771 PH (305) 371-6088

WELLS FARGO, N.A.
PLANTATION, FL 33322
63-643/670

49048

5/20/2020

PAY TO THE ORDER OF CITY OF DANIA BEACH $**3,410.00

Three Thousand Four Hundred Ten and 00/100********** DOLLARS

PROTECTED AGAINST FRAUD

CITY OF DANIA BEACH

PINK ICON DISAPPEARS WITH HEAT

MEMO PLAT APPLICATION

⑈049048⑈ ⑆067006432⑆ 2090002382190⑈

CORPORATE COACHES, INC. 49048

CITY OF DANIA BEACH		5/20/2020	
6230 · Licenses and Permits	PLAT APPLICATION		3,410.00

CHECKING ACCT	PLAT APPLICATION	3,410.00

1

ulc 39.

Prepared By:
Thomas M. Clark, Esq.
Thomas M. Clark, P.A.
2400 E. Commercial Blvd. #820
Ft. Lauderdale, FL33308

Property Appraiser's Identification #: 5041 25 01 0520

CORRECTIVE WARRANTY DEED

THIS CORRECTIVE WARRANTY DEED made the 20th day of November, 2015, by Ramgoh Sales Company, Inc., a Florida Corporation, whose address is 4695 SW 45th Ter., Ft. Lauderdale, FL 33314, hereinafter called the Grantor, to CCI Properties1, LLC, a Florida Limited Liability Company, whose address is P.O. Box 17825, Plantation, FL 33318 , hereinafter called the Grantee:

Witnesseth: That said Grantor, for and in consideration of the sum of $10.00 and other valuable and good consideration, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto Grantee, all that certain land situate in Broward County, Florida, viz:

SEE ATTACHED LEGAL DESCRIPTION ON EXHIBIT "A"

THIS CORRECTIVE WARRANTY DEED IS BEING EXECUTED AND RECORDED TO CORRECT A SCRIVENER'S ERROR IN THE LEGAL DESCRIPTION IN THAT CERTAIN WARRANTY DEED RECORDED 10//23/15 UNDER INSTRUMENT NO. 113305372 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

Together with all tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining

To Have and to Hold, the same in fee simple forever.

And the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple, that the Grantor has good and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said Land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2014, restrictions, reservations easements of record, if any.

Witnessed by:

Amiar Furman
Printed Name: Amiar Furman

Maria H. Sandoval
Printed Name: Maria H. SANDOVAL

RAMGOH SALES COMPANY, INC., a Florida corporation

BY: Christopher Martin
CHRISTOPHER MARTIN
Vice President

STATE OF FLORIDA
COUNTY OF BROWARD

The foregoing instrument was acknowledged before me this 20th day of November, 2015, by Christopher Martin, as Vice President of Ramgoh Sales Company, Inc., a Florida corporation, on behalf of said corporation, who is ✓ personally known to me or produced his / driver's license as identification.

Maria H. Sandoval
NOTARY PUBLIC - STATE OF FLORIDA
My Commission Expires: / /

(SEAL)

MARIA H. SANDOVAL
MY COMMISSION # EE 844256
EXPIRES: November 11, 2016
Bonded Thru Notary Public Underwriters

Exhibit A

A portion of TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, NEWMAN'S SURVEY, according to the Plat thereof, recorded in Plat Book 2, Page 26 of the Public Records of Miami-Dade County, Florida more fully described as follows: COMMENCING at the intersection of the East Right-of-Way line of State Road No. 7 with the South line of said Section 25; thence Northerly along the said East Right-of-Way, North 02°06"55" East, 1111.80 feet to the intersection of the East Right-of-Way line of State Road No. 7 and the South Right-of-Way line of the South New River Canal Easement; thence Easterly along said South Right-of-Way, North 90°00'00" East, 181.59 feet; thence North 76°04'42" East, 19.28 feet to the POINT OF BEGINNING; thence continue North 76°04'42" East, 394.91 feet; thence South 02°12'46" West 686.55 feet; thence North 87°51'58" West, 378.37 feet; thence North 02°06'55" East, 577.47 feet to the POINT OF BEGINNING. said lands situate, lying and being in Broward County, Florida.

Parcel Identification Number: 504125010520

2020 FLORIDA LIMITED LIABILITY COMPANY ANNUAL REPORT

DOCUMENT# L14000003061

FILED
Jan 07, 2020
Secretary of State
6918647219CC

Entity Name: CCI PROPERTIES 1, LLC

Current Principal Place of Business:

4500 SOUTH STATE RD. 7
FORT LAUDERDALE, FL 33314

Current Mailing Address:

4500 SOUTH STATE RD. 7
FORT LAUDERDALE, FL 33314

FEI Number: 46-4449587

Certificate of Status Desired: No

Name and Address of Current Registered Agent:

BARDAR, ANDREW R
4500 SOUTH STATE RD. 7
FORT LAUDERDALE, FL 33314 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE: _____

Electronic Signature of Registered Agent — Date

Authorized Person(s) Detail :

Title	AMBR	Title	AP
Name	BARDAR, ANDREW R	Name	BARDAR, LAURIE W
Address	4500 SOUTH STATE RD. 7	Address	4500 SOUTH STATE RD. 7
City-State-Zip:	FORT LAUDERDALE FL 33314	City-State-Zip:	FORT LAUDERDALE FL 33314

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am a managing member or manager of the limited liability company or the receiver or trustee empowered to execute this report as required by Chapter 605, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: LAURIE BARDAR — AP — 01/07/2020

Electronic Signature of Signing Authorized Person(s) Detail — Date

BROWARD COUNTY **2019 Paid Real Estate** Folio: 467421

Notice of Ad Valorem Tax and Non-Ad Valorem Assessments

Property ID Number	Escrow Code	Assessed Value	Exemptions	Taxable Value	Millage Code
504125-01-0520		*See Below*	*See Below*	*See Below*	0413

CCI PROPERTIES 1 LLC
PO BOX 17825
PLANTATION, FL 33318

PAYMENTS MUST BE MADE IN US FUNDS AND DRAWN ON US BANK ACCOUNT.

Paid 12/05/2019 Receipt # WWW-19-00101112 $51,056.95
Paid By CCI PROPERTIES 1

4695 SW 45 TER
NEWMANS SURVEY 2-26 D 25-50-41
TRACT 29 LYING E OF ST RD LESS
S 525 & LESS THAT PART AS DESC
IN OR 2930/28
ALSO LESS PORTION LYING WITHIN

AD VALOREM TAXES

Taxing Authority	Millage	Assessed Val	Exemptions	Taxable Val	Taxes Levied
BROWARD COUNTY GOVERNMENT					
COUNTYWIDE SERVICES	5.48780	2,159,000	0	2,159,000	11,848.16
VOTED DEBT	0.18120	2,159,000	0	2,159,000	391.21
BROWARD CO SCHOOL BOARD					
GENERAL FUND	5.13500	2,159,000	0	2,159,000	11,086.46
CAPITAL OUTLAY	1.50000	2,159,000	0	2,159,000	3,238.50
VOTER APPROVED DEBT LEVY	0.10430	2,159,000	0	2,159,000	225.18
SO FLORIDA WATER MANAGEMENT					
EVERGLADES C.P.	0.03970	2,159,000	0	2,159,000	85.71
OKEECHOBEE BASIN	0.12460	2,159,000	0	2,159,000	269.01
SFWMD DISTRICT	0.11520	2,159,000	0	2,159,000	248.72
SOUTH BROWARD HOSPITAL	0.12600	2,159,000	0	2,159,000	272.03
CHILDREN'S SVCS COUNCIL OF BC	0.48820	2,159,000	0	2,159,000	1,054.02
CITY OF DANIA BEACH					
DANIA BEACH OPER	5.99980	2,159,000	0	2,159,000	12,953.57
DEBT SERVICE	0.16900	2,159,000	0	2,159,000	364.87
FL INLAND NAVIGATION	0.03200	2,159,000	0	2,159,000	69.09

Total Millage: 19.50280 **Ad Valorem Taxes:** $42,106.53

NON - AD VALOREM TAXES

Levying Authority	Rate	Amount
04 DANIA FIRE		9,397.50
DS DANIA STORM WATER	@ 40.0000	1,132.00

Non - Ad Valorem Assessments: $10,529.50

Combined Taxes and Assessments: $52,636.03

If Postmarked By	Dec 31, 2019				
Please Pay	$0.00				

BROWARD COUNTY **2019 Paid Real Estate** Folio: 467421

Notice of Ad Valorem Tax and Non-Ad Valorem Assessments

Paid 12/05/2019 Receipt # WWW-19-00101112 $51,056.95
Paid By CCI PROPERTIES 1

Make checks payable to:

BROWARD COUNTY TAX COLLECTOR
GOVERNMENTAL CENTER ANNEX
115 S. ANDREWS AVENUE, ROOM # A100
FORT LAUDERDALE, FL 33301-1895

Property ID Number
504125-01-0520

PAY YOUR TAXES ONLINE AT:
broward.county-taxes.com

If Postmarked By	Please Pay
Dec 31, 2019	$0.00

Return with Payment

Please Pay Only One Amount

PAYMENTS MUST BE MADE IN US FUNDS AND DRAWN ON US BANK ACCOUNT

CCI PROPERTIES 1 LLC
PO BOX 17825
PLANTATION, FL 33318

LETTER OF AUTHORIZATION

THIS IS TO CERTIFY that I represent the owner of the lands described in the attached petition for approval of a PLAT named **"ANDY'S LAND"**, proposed for a property located at 4695 SW 45th Terrace, Dania Beach, also identified by Folio number 504125010520. As such, I have authorized the firm of **Pulice Land Surveyors, Inc.** to act as the Agent in all matters concerning said application process involving the subject property.

Signature

ANDREW BARDAR
PRINT NAME

4500 S. STATE ROAD 7, FORT LAUDERDALE, FL 33314
Mailing Address, City, State, Zip

(954) 583-7082
Telephone

State of: FLORIDA

County of: BROWARD

Sworn to and subscribed before me ANDREW BARDAR,

this 22 day of May, 20 20, who is personally known to me [✓]

OR produced identification [ ]:

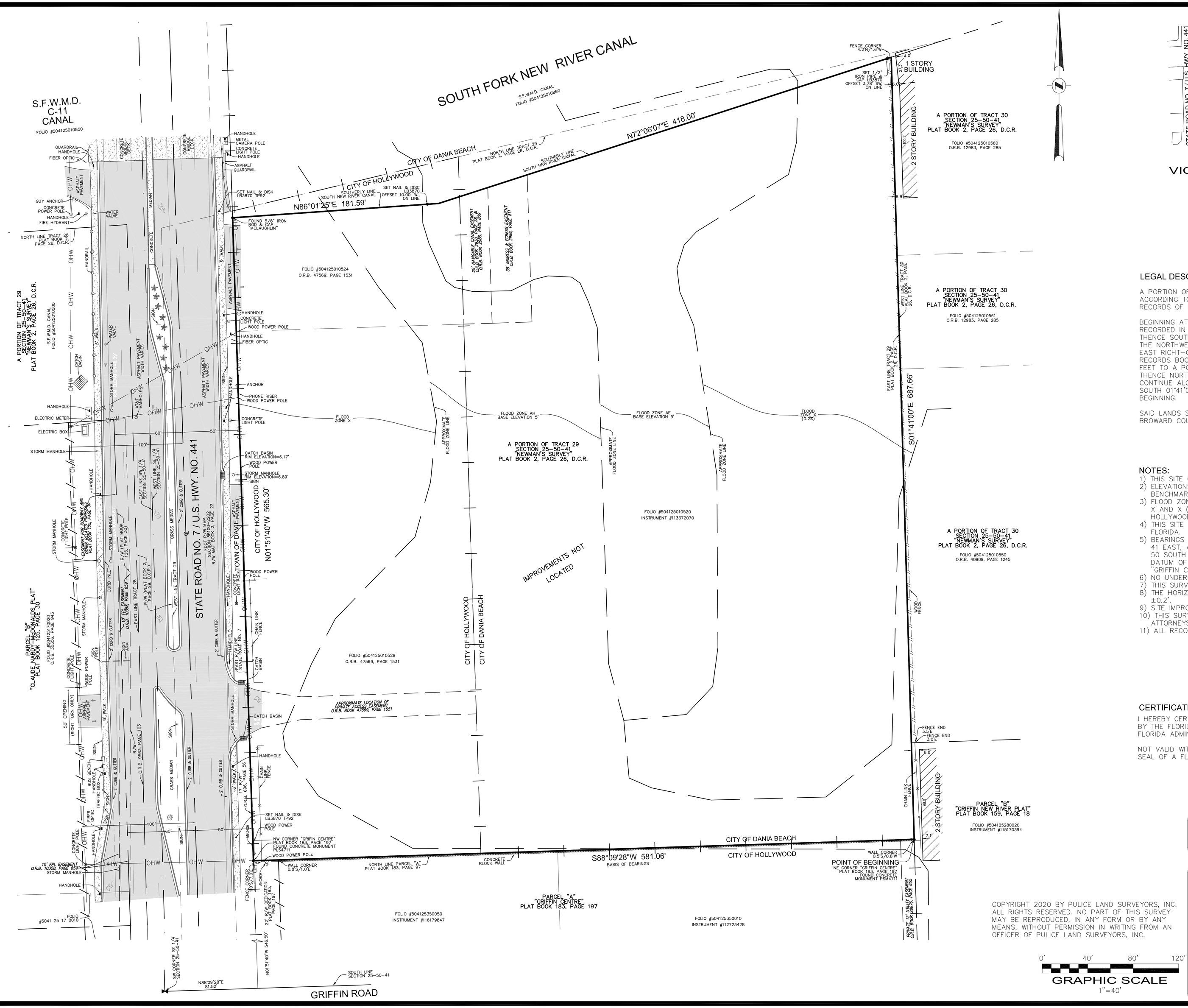
Notary Public

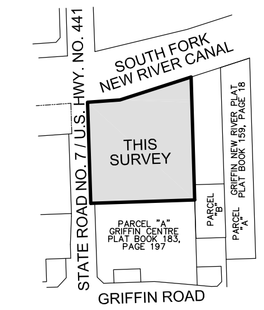
ERIC METZ
Print name

My Commission expires: 9/25/22

SEAL:

ERIC C METZ
Notary Public - State of Florida
Commission # GG 262299
My Comm. Expires Sep 25, 2022
Bonded through National Notary Assn.





VICINITY MAP

NOT TO SCALE

LEGEND

	CONCRETE
	ASPHALT PAVEMENT
— OHW —	OVERHEAD WIRES
—/—	NON-VEHICULAR ACCESS LINE
—I—	CITY LIMITS
℄	CENTERLINE
O.R.B.	OFFICIAL RECORDS BOOK
DADE COUNTY RECORDS	
R/W	RIGHT-OF-WAY
S.F.W.M.D.	SOUTH FLORIDA WATER MANAGEMENT DISTRICT
FPL	FLORIDA POWER & LIGHT COMPANY
LB	LICENSED BUSINESS
	CABBAGE PALM/UNKNOWN TREE

LEGAL DESCRIPTION:

A PORTION OF TRACT 29, SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, "NEWMAN'S SURVEY", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 2, PAGE 26, OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF "GRIFFIN CENTRE", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 183, PAGE 197, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; THENCE SOUTH 88°09'28" WEST, ALONG THE NORTH LINE OF SAID "GRIFFIN CENTRE", 581.06 FEET TO THE NORTHWEST CORNER OF SAID "GRIFFIN CENTRE"; THENCE NORTH 01°51'40" WEST, ALONG THE EAST RIGHT-OF-WAY LINE OF STATE ROAD NO. 7, (U.S.HIGHWAY NO. 441) AS DESCRIED IN OFFICIAL RECORDS BOOK 696, PAGE 56, OF SAID PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, 565.30 FEET TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF THE SOUTH NEW RIVER CANAL; THENCE NORTH 86°01'25" EAST, ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE, 181.59 FEET; THENCE CONTINUE ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE NORTH 72°06'07" EAST 418.00 FEET; THENCE SOUTH 01°41'00" EAST ALONG THE EAST LINE OF SAID TRACT 29 FOR 687.66 FEET TO THE POINT OF BEGINNING.

SAID LANDS SITUATE, LYING AND BEING IN THE CITY OF DANIA BEACH AND THE CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA.

NOTES:

1) THIS SITE CONTAINS 355,495 SQUARE FEET (8.161 ACRES) MORE OR LESS.
2) ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. BROWARD COUNTY BENCHMARK #2071; ELEVATION: 6.451 FEET.
3) FLOOD ZONES: AE – BASE FLOOD ELEVATION: 5 FEET; AH – BASE FLOOD ELEVATION: 5 FEET; X AND X (2%) BASE FLOOD ELEVATION: NONE; PANEL #12011C0554H; COMMUNITIES: CITY OF HOLLYWOOD #125113 & CITY OF DANIA BEACH #120034; MAP DATE: 8/18/14.
4) THIS SITE LIES IN SECTION 25, TOWNSHIP 50 SOUTH, RANGE 41 EAST, BROWARD COUNTY, FLORIDA.
5) BEARINGS ARE BASED THE STONER/KEITH RESURVEY NO, III, ALL OF TOWNSHIP 50 SOUTH, RANGE 41 EAST, AND THE HIATUS LYING BETWEEN RANGE 40 EAST, AND RANGE 41 EAST IN TOWNSHIP 50 SOUTH (MISCELLANEOUS PLAT BOOK 5, PAGE 9) AS TRANSFORMED TO THE NORTH AMERICAN DATUM OF 1983, WITH THE 1990 ADJUSTMENT. BASIS OF BEARING LINE BEING THE NORTH LINE OF "GRIFFIN CENTRE", PLAT BOOK 183, PAGE 197, BEING S88°09'28"W.
6) NO UNDERGROUND UTILITIES WERE LOCATED FOR THIS SURVEY.
7) THIS SURVEY IS CERTIFIED EXCLUSIVELY TO: CORPORATE COACHES, INC.
8) THE HORIZONTAL POSITIONAL ACCURACY OF WELL DEFINED IMPROVEMENTS ON THIS SURVEY IS ±0.2'.
9) SITE IMPROVEMENTS HAVE NOT BEEN LOCATED HEREON PER THE CLIENT'S REQUEST.
10) THIS SURVEY WAS PREPARED WITH BENEFIT OF A TITLE SEARCH REPORT PREPARED BY ATTORNEYS' TITLE FUND SERVICES, LLC, FUND FILE NO.: 861926A2, DATED APRIL 14, 2020.
11) ALL RECORDED DOCUMENTS ARE PER BROWARD COUNTY RECORDS, UNLESS OTHERWISE NOTED.

CERTIFICATION:

I HEREBY CERTIFY: THAT THIS SKETCH OF SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES ("DOACS") CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OR A DIGITAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

☐JOHN F. PULICE, PROFESSIONAL SURVEYOR AND MAPPER LS2691
☐BETH BURNS, PROFESSIONAL SURVEYOR AND MAPPER LS6136
☐VICTOR R. GILBERT, PROFESSIONAL SURVEYOR AND MAPPER LS6274
STATE OF FLORIDA

COPYRIGHT 2020 BY PULICE LAND SURVEYORS, INC. ALL RIGHTS RESERVED. NO PART OF THIS SURVEY MAY BE REPRODUCED, IN ANY FORM OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM AN OFFICER OF PULICE LAND SURVEYORS, INC.

0' 40' 80' 120'
GRAPHIC SCALE
1"=40'

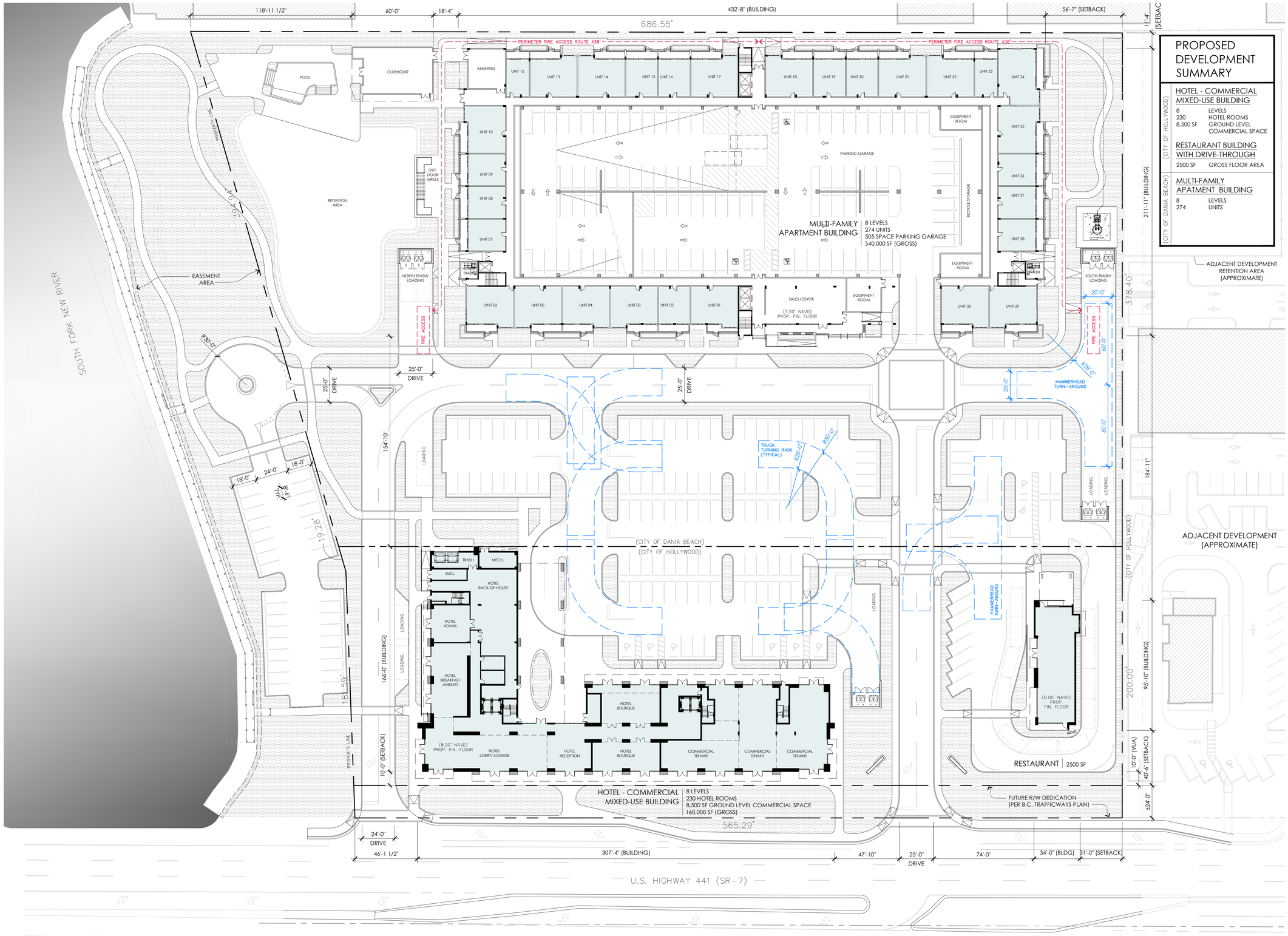
NO.	REVISIONS	BY
5		
4		
3		
2		
1		

CORPORATE COACHES SITE
(A/K/A ANDY'S LAND)
4500 N. STATE ROAD 7, HOLLYWOOD, &
4695 SW 45TH TERRACE, DANIA BEACH,
BROWARD COUNTY, FLORIDA 33314

BOUNDARY SURVEY

PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
TELEPHONE: (954) 572-1777
FAX: (954) 572-1778
E-MAIL: surveys@pulicelandsurveyors.com
WEBSITE: www.pulicelandsurveyors.com
CERTIFICATE OF AUTHORIZATION LB#3870

DRAWN BY: DCW	SCALE: 1" = 40'	FILE: CORPORATE COACHES
CHECKED BY: J.F.P.	SURVEY DATE: 5/20/20	ORDER NO.: 67135



MASTER SITE PLAN

SCALE: 1/32" = 1'-0"

PROPOSED DEVELOPMENT SUMMARY

(CITY OF HOLLYWOOD)

HOTEL - COMMERCIAL MIXED-USE BUILDING

8	LEVELS
230	HOTEL ROOMS
8,500 SF	GROUND LEVEL COMMERCIAL SPACE

RESTAURANT BUILDING WITH DRIVE-THROUGH

2500 SF	GROSS FLOOR AREA

(CITY OF DANIA BEACH)

MULTI-FAMILY APATMENT BUILDING

8	LEVELS
274	UNITS

FSMY ARCHITECTS • PLANNERS
FALKANGER SNYDER MARTINEAU & YATES

888 SOUTH ANDREWS AVE. SUITE 300
FORT LAUDERDALE, FLORIDA 33316
PH:(954)764-6575 FAX:(954)764-8622

JEFF FALKANGER, DOUG SNYDER
LARRY MARTINEAU, JIRO YATES

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CA # AAC000447

edsa
PLANNING
LANDSCAPE ARCHITECTURE
URBAN DESIGN

1512 E. BROWARD BOULEVARD, SUITE 110
FORT LAUDERDALE, FLORIDA 33301 USA
TEL: 954.524.3330 | LC0000001

DESIGNED	DRAWN	CHECKED
RO	RO	JY

R E V I S I O N S

DATE:	COMM:
06.29.2020	19033

HARBOR LANDINGS

A MIXED-USE DEVELOPMENT IN HOLLYWOOD & DANIA BEACH, FLORIDA

4500 S. STATE ROAD NO. 7
HOLLYWOOD, FL 33314

STATE OF FLORIDA
JIRO YATES
AR 91406
REGISTERED ARCHITECT

2020.06.30

PRINTED ON: 06.30.20

SITE PLAN
MASTER
SITE PLAN SUBMITTAL

A-1.00

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Resolution

Continued from: October 13, 2020

Requested Action (Identify appropriate Action or Motion)
ADOPT RESOLUTION APPROVING THE DEVELOPMENT DESIGN GUIDELINES (DDG) AND SITE PLAN (SP-056-20) SUBMITTED BY KIMLEY-HORN AND ASSOCIATES, ON BEHALF DANIA BEACH MARINA CORP. FOR THE PROPERTY GENERALLY LOCATED 90 N. BRYAN ROAD WITHIN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
CM SP-056-20 Wave 90, SR SP-056-20 Wave 90, R-2020- 90 Wave Dania Beach Marina Corp. Development Design Guidelines (DDG) and Site Plan (SP-056-20), Wave DDGS Proposed, 90 Wave Revised Site Plan OPT, Wave 90 (Location Map), Wave 90 App & Backup, Wave 90 & 70 Traffic Impact Analysis, Wave 90 Arborist Report

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
MEMORANDUM

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistant Director

Eleanor Norena
Digitally signed by Eleanor Norena
DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US
Date: 2020.11.17 12:08:31 -05'00'

Corinne Lajoie
Digitally signed by Corinne Lajoie
DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development, email=clajoie@daniabeachfl.gov, c=US
Date: 2020.11.16 12:39:30 -05'00'

SUBJECT: **SP-056-20:** The applicant, Kimley-Horn and Associates, Inc. – Jacob B. Lawson, on behalf of the property owner Dania Beach marina Corp., is requesting a site plan approval for a fifteen (15) story mixed-use building located at 90 Bryan Road.

Request

SITE PLAN

To allow the construction of a mixed use, high-rise building containing 380 dwelling units and 19,700 square feet of commercial use.

Background

The Development Review Committee has reviewed this application on July 30, 2020 and August 27, 2020. Additionally, a Plat Note Delegation application has also been submitted for this property, which is being processed separately.

On October 13, 2020 the City Commission continued this item to allow the applicant time to resolve the adjacent North West Byrd Point residents' concerns.

Budgetary Impact

Approval of the site plan will allow the opportunity for the redevelopment of the site, which will increase the taxable value of the property.

Recommendation

Approve the site plan with conditions identified in the resolution.

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT

DATE: December 8, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistance Director

SUBJECT: **SP-056-20:** The applicant, Kimley-Horn and Associates, Inc. – Jacob B. Lawson, on behalf of the property owner Dania Beach Marina Corp., is requesting a site plan approval for a fifteen (15) story, mixed-use building located at 90 North Bryan Road.

Request

SITE PLAN

To allow the construction of a mixed use, high-rise building containing 380 dwelling units and 19,700 square feet of commercial use.

PROPERTY INFORMATION

EXISTING ZONING:	Planned Small Lot Mixed Use Development District (PMUD-SL)
LAND USE DESIGNATION:	Regional Activity Center (RAC)
SITE ACREAGE:	4.69 gross acres/3.04 net acres
EXISTING USE:	Marine sales
VIOLATIONS ON PROPERTY:	None

PUBLIC HEARING NOTICE

This item was duly advertised, posted, and noticed pursuant to Article 610 of the Land Development Code.

Background

On October 13, 2020 the City Commission continued this item to allow the applicant time to resolve the adjacent North West Byrd Point residents' concerns.

This property is one of two sites proposed for identical redevelopment projects, both located on the east side of Bryan Road. The applicant is proposing the construction of a fifteen (15) story, mixed-use

building with commercial and wok-live units on the ground level, two (2) levels of parking decks, and twelve (12) levels of multi-family units above. The project shows a pedestrian connection on the east side of the property, along the canal, which will continue south to the previously approved mixed use project located at the corner of Bryan Road and Stirling Road.

DEVELOPMENT DESIGN GUIDELINES (DDG)

The Planned Small Lot Unit Development (PMUD-SL) regulations require the applicant to submit a Development Design Guidelines (DDG) at the time of Site Plan submittal, establishing the development regulations for the project. This is a similar process as the Planned Mixed Use Development (PMUD) zoning regulations, which Dania Pointe is zoned.

In the proposed DDG, the applicant identifies development regulations for the project, which includes permitted uses, lot coverage, building placement/setbacks, height, parking, lighting, minimum unit size, landscaping, signage, and architectural standards. Where the DDG are silent, the City's Land Development Code (LDC) shall apply.

Staff has asked the applicant to address how noise emitted from the site will be mitigated to reduce disturbing the residents of the NW Byrd Point neighborhood. The DDG now prohibits outdoor music, signing and entertainment between the hours of 10:00PM - 10:00AM on weekdays and between the hours of 11:00PM and 10:00AM on weekends.

SITE PLAN

At staff's request, the applicant has met with the North West Byrd Point Civic Association on August 20, 2020. The applicant indicated that conversations with the Association and residents are ongoing.

Since the October 13, 2020 City Commission meeting the applicant has reduced the height of the structure from 210 feet to 188 feet by reducing the commercial space from 48,000 to 19,700 square feet and relocating the work-live units to the ground floor.

The City's Transportation Engineer has accepted the traffic study provided.

As part of this development and in accordance with the City's Code of Ordinances, the applicant is required to pay several fees, including the following:

- Payment in Lieu of Public Art, which will be paid at time of building permit issuance.
- Recreation and Open Space Impact Fee of $1,364.00 per Multifamily Dwelling must be paid. Therefore, the applicant will have to pay $433,200 (380 units X $1, 3640.00) prior to issuance of a building permit.
- CRA Traffic Mitigation Fee of $21.26 per p.m. peak hour trip. The Kimley-Horn Traffic Impact Analysis signed and dated 9/11/20 identifies 396.66 adjusted PM Peak Hour Trips for the Wave 70 site plan. Therefore, $8,432.99 (396.66 trips X $21.26) is due prior to issuance of a building permit.

As identified on the Master Development Plan, which is provided as Exhibit 3 in the proposed Development Design Guidelines, there is a pedestrian cross access easement that runs along the east side of the property. The pedestrian cross access easement runs continuously south across the next two (2) properties as well, providing for a continuous public pedestrian path that can be used by the public allowing people to walk along the waterway to access the retail and restaurant that will be located on

each of the three (3) properties, including this site, the Wave 70 to the south and the Bryan Mixed-Use Multifamily project south of that.

The applicant has proposed to enter into a Developer's Agreement with the City to develop an unused Right-of-Way into a public park. A portion of the area is owned by Broward County, the other portion is owned by the City of Dania Beach. The applicant has indicated that the proposed park will be accessible via the boardwalk, which is identified in the Master Development Plan for the zoning district, which runs along the canal, or by the sidewalk located along Bryan Road. The amenities of the park have not yet been finalized, but will be identified in the Developers Agreement, which will be recorded prior to issuance of the building permit.

DEVELOPMENT REVIEW COMMITTEE (DRC)
The Development Review Committee has reviewed this application on July 30, 2020 and again in August 27, 2020. There are several outstanding comments that remain, which are identified below.

1. Page 15 of the study includes mitigation of the signal timing at the intersection of Bryan Road and Stirling Road. The future total condition with signal optimization brings the intersection LOS from an F to a D in the pm peak hour. As a condition of approval, we would recommend the applicant to coordinate with Broward County the optimization of this signal. It may have to wait for the appropriate time for the traffic conditions to develop in order for Broward County to proceed with the signal optimization as suggested (Traffic Engineering).

2. According to page 28 of the updated traffic study, the applicant will construct right turn deceleration lanes at the two proposed site driveways. The study also indicates that the exact parameters related to these lanes will be determined during the platting process. We recommend having a condition of approval indicating that right turn deceleration lanes will be provided at the two driveways for the 70 Wave and 90 Wave sites, subject to Broward County's conditions of approval process (Traffic Engineering).

3. Table 8 of page 21 of the study points to future deficiencies in the year 2024 for the intersection of Bryan Road and Old Griffin Road. Since this intersection is not currently signalized but will be at a future date, we would recommend including a condition of approval indicating that the capacity of the storage lanes and geometry of this intersection will be reviewed and approved by Broward County as part of the traffic signal approval process (Traffic Engineering).

4. Provide R/W (width/dimensions), NVAL, R/W dedication, and all Easements information on all engineering plans and Site Plan (Engineering).

5. Provide offsite roadway improvements plans with sufficient details. City R/W permit shall be required for offsite improvements. Proposed removal of muck within R/W may impact the existing underground utilities. Existing utilities shall be protected or reconstructed including WM, gas main and drainage pipes (Engineering).

6. Provide site cross sections with sufficient details in engineering plans. Indicate muck removal, new cut & fill etc. as applicable. The offsite plans cross sections refer to onsite cross sections. The sections shall be provided along all sides of the site (Engineering).

7. Perimeter berm or Type D curb (6" high min.) shall be required to prevent offsite sheet flow.

8. Provide a letter from solid waste management service company accepting the location of dumpster or loading zone (Engineering).

9. The applicant will be responsible for Force Main modeling and upgrading of Lift Station #8 if required. The applicant shall coordinate with Public Services Department (Engineering).

10. Please provide drainage report and calculations indicating storm water retention in project site. Min. Perimeter grade shall be at or above 25-year 72-hour design storm stage. The submitted conceptual calculations are not satisfactory. Hydraulic Conductivity for exfiltration trench shall be based on existing site test results. Provide documentation or tests for drainage well capacity. Well discharge shall only start at elevation 3.50 feet NAVD or 2 feet above water table elevation. Exfiltration trench length shall be twice than required when used for quantity purpose. Provide revised drainage calculations and drainage plans satisfying 25-year storm stage and perimeter berm requirement. The drainage well casing pipe top elevation shall be set at 3.50 feet NAVD to prevent backflow. Revise the drainage well structure detail accordingly. Provide detail for retention area drainage wells (Engineering).

11. All parking spaces shall be clearly delineated by a single four-inch wide, white, painted striping wherever a hard-paved parking surface is required. If double line to be utilized then DDG shall specify the requirement (Engineering).

12. Provide Maintenance of Traffic (MOT) Plan by a licensed General Contractor/Professional Engineer in the State of Florida (If applicable) (Engineering).

13. In accordance with City Code of Ordinances in Article 415. SIDEWALKS AND SWALES, Owner is responsible for the construction of sidewalks / swales within the road ROW when buildings are constructed or substantially improved (Engineering).

14. Detail and complete engineering plans will be required prior to Building and R/W permit approval (Engineering).

15. Provide utility piping conflict details plan, along with documentation to demonstrate acceptability of the separation between water, sanitary, storm-water service lines, etc. (Engineering).

16. Show also all existing and proposed utilities on the landscaping plans for potential conflicts (Engineering).

17. Provide BC standard details for pavement marking and signage. All traffic control signs shall conform to Broward County Traffic Engineering (BCTED) and MUTCD standards. BCTED signs specifications consist of Type XI retroreflective sheeting materials except for school zone and pedestrian signs which shall be comprised of retroreflective fluorescent yellow-green sheeting certified type IV (Engineering).

18. All pavement markings shall be alkyd based thermoplastic and fully retroreflectorized, per BCTED specifications with the exception of parking stall striping (Engineering)

19. Provide ADA parking, access / driveway, and sidewalks /ramps including dimensions in accordance with Chapter 553 of the Florida Statutes. "Accessibility of Handicapped Persons" and latest edition of "Accessibility Requirements Manual" by Department of Community Affairs, Florida Board Building Codes and Standards, and 'in accordance with Americans with Disability Act (ADA) (Engineering).

20. Provide drawing file (dwg or dgn) disk of the approved site plan in Florida State Plane Coordinate (NAD 83). This should be addressed as part of the final submittal (Engineering).

21. Provide regulatory agencies' approval documentation and Permits/Licenses (as applicable) as part of the final submittal, prior to issuance of the Building Permit (Broward County Surface Water License, Broward County Wastewater Permit, Florida Department of Environmental Protection, FDOT, BC Environmental, BC Aviation, BCTED, SFWMD, etc.). Also, include Utility / Right of Way Permits from City, Broward County, and State Roads as applicable (Engineering).

22. RIGHT-OF-WAY: Recorded ROW dedication of 6.1 – 22.5 must be provided (Planning).

23. The proximity to the airport will require FAA review and approval. 2X requested (Planning).

24. PARK IMPACT FEES: Per Resolution No. 2015-071, $1,825.00 per Single Family/Townhouse dwelling, $1,364.00 per Multifamily Dwelling, $1,140.00 per Mobile Home must be paid for Recreation and Open Space Impact Fee at time of building permit issuance. Therefore, $433,200 (380 X $1,140) is due for each building at issuance of a building permit (Planning).

25. RAC TRAFFIC IMPACT MITIGATION: Provide an analysis, signed and sealed by a certified engineer, identifying the amount of CRA mitigation for traffic impact due based on resolution No. 2014-049, which established a rate of $21.26 per p.m. peak hour trip. Kimley-Horn Traffic Impact Analysis dated and signed on 9-11-20 identifies 396.66 adjusted PM Peak Hour Trips. Therefore, $8,432.99 (396.66 X $21.26) is due prior to issuance of a building permit (Planning).

26. For all projects resulting in buildout of the site, such that construction staging cannot occur on site, must obtain Staging Plan approval by the Community Development Director prior to issuance of a building permit. The Staging Plan must include, but is not limited to, location of equipment and material during construction (Planning).

27. For all projects resulting in buildout of the site, such that construction staging cannot occur on site, the applicant must obtain Maintenance of Traffic Plan approval by the City Engineer for period of construction prior to issuance of a building permit (Planning).

28. Per O-2017-027 & O-2018-019, commercial properties under construction are required to provide security to fencing with screening showing project rendering covering at least 75% of the length of the fence along an arterial or state right-of-way & 25% for local roads and must include name and intended use of the project, project rendering, project website address, and owner or agent, the telephone number for the owner or agent, and the name and an emergency contact telephone number of the general contractor. Provide screen detail with next submittal. 2X requested (Planning).

29. **PUBLIC ART PROGRAM:** Per O-2019-025, New development and redevelopment in non-residential, mixed-use and multi-family zoning districts shall provide fee for the creation, acquisition and installation of public art in the city (Planning)

30. The Master Development Plan on page 9 of the DDG shows a pedestrian cross access easement. Prepare easement language for the City Attorney's Office to review before recording it in Broward County Public Record. Must be reviewed and recorded prior to issuance of a building permit (Planning).

31. Enter into a Developers Agreement for park improvements, for separate review and approval by the City Commission (Planning).

32. Identify location of pedestrian cross access easement along east side of the property. 2nd time requested (from Plat comments) (Planning).

Additionally, a Plat application has been submitted for the property that is being processed separately.

CITY COMMISSION PREVIOUS ACTION
On October 28, 2019, the City Commission changed the zoning on the property from Industrial, Research, Office, Marine (IROM) to Planned Small Lot Mixed-Use Development District (PMUD-SL).

Recommendation
Approve the site plan with remaining DRC comments as conditions of approval.

RESOLUTION NO. 2020-125

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE DEVELOPMENT DESIGN GUIDELINES (DDG) AND SITE PLAN (SP-056-20) SUBMITTED BY KIMLEY-HORN AND ASSOCIATES, ON BEHALF DANIA BEACH MARINA CORP. FOR THE PROPERTY GENERALLY LOCATED 90 N. BRYAN ROAD WITHIN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; PROVIDING FOR CONFLICTS; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, pursuant to Chapter 28 of the "Land Development Code" (the "LDC"), Part 6 "Development Review Procedures and Requirements," Article 635 "Site Plans," and Part 3 "Special Zoning Districts," Subpart 5 "Planned Small Lot Mixed-Use Development District (PMUD-SL)," Article 350 "Planned Small Lot Mixed-Use Development District (PMUD-SL)," Section 350-30(R) "Site Plan Approval," site development shall comply with the established PMUD-SL regulations and the approved Development Design Guidelines; and

WHEREAS, LDC Article 350 "Planned Small Lot Mixed-Use Development District (PMUD-SL)," Section 350-40 "Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Requirements," provides that no building permit for a structure or building shall be issued by the City and no development shall commence unless in conformity with the approved Development Design Guidelines (DDG) and an approved final site plan; and

WHEREAS, pursuant to LDC Section 350-40, Kimley-Horn and Associates, on behalf of Dania Beach Marina Corp. (the "Applicant") has submitted the Bryan Road PMUD-SL District 1 (90 Wave) Development Design Guidelines (DDG), attached as Exhibit "C," which provide for the standards and regulations of the future development of the portion of the PMUD-SL (District 1), as legally described in Exhibit "A;" and

WHEREAS, the Applicant has requested Site Plan (SP-056-20) approval to permit the development of a mixed use project with 380 dwelling units and 48,000 sf of commercial uses (integrated with a parking garage) with ground level retail, attached as Exhibit "D," consistent with the DDG, to be located on the property as legally described in Exhibit "A;" and

WHEREAS, the Site Plan (SP-056-20) has been reviewed for compliance with the Bryan Road PMUD-SL District 1 Development Design Guidelines (DDG) in accordance with Article 635 and Article 350 of the LDC; and

WHEREAS, the City Commission conducted a duly noticed public hearing in accordance with Article 610 of the Land Development Code; and

WHEREAS, the City Commission finds that the approval of the proposed DDG and Site Plan (SP-056-20) will protect the public health, safety, and welfare of the residents of the City, and furthers the purpose, goals, objectives and policies of the Comprehensive Plan; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the foregoing "WHEREAS" clauses are ratified and confirmed as being true and correct, and they are made a part of and incorporated into this Resolution by reference.

Section 2. That pursuant to Chapter 28, "Land Development Code," Part 6 "Development Review Procedures and Requirements," Article 635 "Site Plan," and Part 3 "Special Zoning Districts," Article 350 "Planned Small Lot Mixed-Use Development District (PMUD-SL)," Section 350-40 "Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Requirements," the following Site Plan (SP-056-20) attached as Exhibit "D," which is made a part of and incorporated into this Resolution by reference is approved subject to the conditions contained in Exhibit "B".

Section 3. That pursuant to LDC Section 635-100 "Expiration of Site Plans," the Site Plan (SP-056-20) approval shall automatically expire and become null and void eighteen (18) months from the effective date of this Resolution unless the Applicant files a complete building permit application and secures approval of building permits for the improvements shown on the Site Plan within the eighteen (18) month time frame, unless an extension is granted pursuant to the LDC or Florida law.

Section 4. That the issuance of a development permit by a municipality does not in any way create any right on the part of an Applicant to obtain a permit from a state or federal agency, and does not create any liability on the part of the municipality for issuance of the permit if the Applicant fails to obtain requisite approvals or does not fulfill the obligations imposed by a state or federal agency, or undertakes actions that result in a violation of state or federal law.

Section 5. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

<u>Section 6.</u> That this Resolution shall be in force and take effect immediately upon its passage and adoption.

PASSED AND ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

Exhibit "A"
Legal Description

ALL OF PARCEL "A", OF "BRYAN ROAD WAREHOUSES", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN THE PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; TOGETHER WITH A 40 FOOT STRIP OF LAND LYING ADJACENT TO AND CONTIGUOUS WITH THE EASTERLY BOUNDARY OF SAID PARCEL "A".

PARCEL "A" ALSO DESCRIBED AS:

THE WEST (W.1/2) OF THE SOUTHWEST QUARTER (SW.1/4) OF THE NORTHEAST QUARTER (NE.1/4) OF THE SOUTHEAST QUARTER (SE.1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, SAID LANDS SITUATED, LYING AND BEING IN BROWARD COUNTY, FLORIDA; LESS THOSE PORTIONS CONVEYED BY WARRANTY DEEDS RECORDED IN OFFICIAL RECORDS BOOK 2161, PAGE 802; OFFICIAL RECORDS BOOK 3559, PAGE 291 AND OFFICIAL RECORDS BOOK 5499, PAGE 397, ALL IN THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. SUBJECT TO EXISTING EASEMENTS, RIGHTS OF WAY, COVENANTS, RESERVATIONS AND RESTRICTIONS OF RECORDS, IF ANY.

SAID LANDS BEING IN THE CITY OF DANIA BEACH, BROWARD COUNTY, FLORIDA AND CONTAINING 102954.01 SQUARE FEET OR 2.36 ACRES MORE OR LESS.

Exhibit "B"

Conditions of Approval

1. Page 15 of the study includes mitigation of the signal timing at the intersection of Bryan Road and Stirling Road. The future total condition with signal optimization brings the intersection LOS from an F to a D in the pm peak hour. As a condition of approval, we would recommend the applicant to coordinate with Broward County the optimization of this signal. It may have to wait for the appropriate time for the traffic conditions to develop in order for Broward County to proceed with the signal optimization as suggested (Traffic Engineering).

2. According to page 28 of the updated traffic study, the applicant will construct right turn deceleration lanes at the two proposed site driveways. The study also indicates that the exact parameters related to these lanes will be determined during the platting process. We recommend having a condition of approval indicating that right turn deceleration lanes will be provided at the two driveways for the 70 Wave and 90 Wave sites, subject to Broward County's conditions of approval process (Traffic Engineering).

3. Table 8 of page 21 of the study points to future deficiencies in the year 2024 for the intersection of Bryan Road and Old Griffin Road. Since this intersection is not currently signalized but will be at a future date, we would recommend including a condition of approval indicating that the capacity of the storage lanes and geometry of this intersection will be reviewed and approved by Broward County as part of the traffic signal approval process (Traffic Engineering).

4. Provide R/W (width/dimensions), NVAL, R/W dedication, and all Easements information on all engineering plans and Site Plan (Engineering).

5. Provide offsite roadway improvements plans with sufficient details. City R/W permit shall be required for offsite improvements. Proposed removal of muck within R/W may impact the existing underground utilities. Existing utilities shall be protected or reconstructed including WM, gas main and drainage pipes (Engineering).

6. Provide site cross sections with sufficient details in engineering plans. Indicate muck removal, new cut & fill etc. as applicable. The offsite plans cross sections refer to onsite cross sections. The sections shall be provided along all sides of the site (Engineering).

7. Perimeter berm or Type D curb (6" high min.) shall be required to prevent offsite sheet flow.

8. Provide a letter from solid waste management service company accepting the location of dumpster or loading zone (Engineering).

9. The applicant will be responsible for Force Main modeling and upgrading of Lift Station #8 if required. The applicant shall coordinate with Public Services Department (Engineering).

10. Please provide drainage report and calculations indicating storm water retention in project site. Min. Perimeter grade shall be at or above 25-year 72-hour design storm stage. The submitted conceptual calculations are not satisfactory. Hydraulic Conductivity for exfiltration trench shall be based on existing site test results. Provide documentation or tests for drainage well capacity. Well discharge shall only start at elevation 3.50 feet NAVD or 2 feet above water table elevation. Exfiltration trench length shall be twice than required when used for quantity purpose. Provide revised drainage calculations and drainage plans satisfying 25-year storm stage and perimeter berm requirement. The drainage well casing pipe top elevation shall be set at 3.50 feet NAVD to prevent backflow. Revise the drainage well structure detail accordingly. Provide detail for retention area drainage wells (Engineering).

11. All parking spaces shall be clearly delineated by a single four-inch wide, white, painted striping wherever a hard-paved parking surface is required. If double line to be utilized then DDG shall specify the requirement (Engineering).

12. Provide Maintenance of Traffic (MOT) Plan by a licensed General Contractor/Professional Engineer in the State of Florida (If applicable) (Engineering).

13. In accordance with City Code of Ordinances in Article 415. SIDEWALKS AND SWALES, Owner is responsible for the construction of sidewalks / swales within the road ROW when buildings are constructed or substantially improved (Engineering).

14. Detail and complete engineering plans will be required prior to Building and R/W permit approval (Engineering).

15. Provide utility piping conflict details plan, along with documentation to demonstrate acceptability of the separation between water, sanitary, storm-water service lines, etc. (Engineering).

16. Show also all existing and proposed utilities on the landscaping plans for potential conflicts (Engineering).

17. Provide BC standard details for pavement marking and signage. All traffic control signs shall conform to Broward County Traffic Engineering (BCTED) and MUTCD standards. BCTED signs specifications consist of Type XI retroreflective sheeting materials except for school zone and pedestrian signs which shall be comprised of retroreflective fluorescent yellow-green sheeting certified type IV (Engineering).

18. All pavement markings shall be alkyd based thermoplastic and fully retroreflectorized, per BCTED specifications with the exception of parking stall striping (Engineering)

19. Provide ADA parking, access / driveway, and sidewalks /ramps including dimensions in accordance with Chapter 553 of the Florida Statutes. "Accessibility of Handicapped Persons" and latest edition of "Accessibility Requirements Manual" by Department of

Community Affairs, Florida Board Building Codes and Standards, and 'in accordance with Americans with Disability Act (ADA) (Engineering).

20. Provide drawing file (dwg or dgn) disk of the approved site plan in Florida State Plane Coordinate (NAD 83). This should be addressed as part of the final submittal (Engineering).

21. Provide regulatory agencies' approval documentation and Permits/Licenses (as applicable) as part of the final submittal, prior to issuance of the Building Permit (Broward County Surface Water License, Broward County Wastewater Permit, Florida Department of Environmental Protection, FDOT, BC Environmental, BC Aviation, BCTED, SFWMD, etc.). Also, include Utility / Right of Way Permits from City, Broward County, and State Roads as applicable (Engineering).

22. RIGHT-OF-WAY: Recorded ROW dedication of 6.1 – 22.5 must be provided (Planning).

23. The proximity to the airport will require FAA review and approval. 2X requested (Planning).

24. PARK IMPACT FEES: Per Resolution No. 2015-071, $1,825.00 per Single Family/Townhouse dwelling, $1,364.00 per Multifamily Dwelling, $1,140.00 per Mobile Home must be paid for Recreation and Open Space Impact Fee at time of building permit issuance. Therefore, $433,200 (380 X $1,140) is due for each building at issuance of a building permit (Planning).

25. RAC TRAFFIC IMPACT MITIGATION: Provide an analysis, signed and sealed by a certified engineer, identifying the amount of CRA mitigation for traffic impact due based on resolution No. 2014-049 which established a rate of $21.26 per p.m. peak hour trip. Kimley-Horn Traffic Impact Analysis dated and signed on 9-11-20 identifies 396.66 adjusted PM Peak Hour Trips. Therefore, $8,432.99 (396.66 X $21.26) is due prior to issuance of a building permit (Planning).

26. For all projects resulting in buildout of the site, such that construction staging cannot occur on site, must obtain Staging Plan approval by the Community Development Director prior to issuance of a building permit. The Staging Plan must include, but is not limited to, location of equipment and material during construction (Planning).

27. For all projects resulting in buildout of the site, such that construction staging cannot occur on site, the applicant must obtain Maintenance of Traffic Plan approval by the City Engineer for period of construction prior to issuance of a building permit (Planning).

28. Per O-2017-027 & O-2018-019, commercial properties under construction are required to provide security to fencing with screening showing project rendering covering at least 75% of the length of the fence along an arterial or state right-of-way & 25% for local roads and must include name and intended use of the project, project rendering, project website address, and owner or agent, the telephone number for the owner or agent, and

the name and an emergency contact telephone number of the general contractor. Provide screen detail with next submittal. 2X requested (Planning).

29. **PUBLIC ART PROGRAM:** Per O-2019-025, New development and redevelopment in non-residential, mixed-use and multi-family zoning districts shall provide fee for the creation, acquisition and installation of public art in the city (Planning)

30. The Master Development Plan on page 9 of the DDG shows a pedestrian cross access easement. Prepare easement language for the City Attorney's Office to review before recording it in Broward County Public Record. Must be reviewed and recorded prior to issuance of a building permit (Planning).

31. Enter into a Developers Agreement for park improvements, for separate review and approval by the City Commission (Planning).

32. Identify location of pedestrian cross access easement along east side of the property. 2nd time requested (from Plat comments) (Planning).

Exhibit "C"

Bryan Road PMUD-SL District 1 Development Design Guidelines (DDG)

Exhibit "D"
Site Plan

DESIGN GUIDELINES:
90 WAVE AND 70 WAVE

All Renderings are conceptual. City Approved Site and Landscape Plans shall govern.

Prepared for:

DANIA BEACH MARINA CORPORATION

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

Prepared by:

Kimley»Horn

November 2020

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SECTION 1 INTRODUCTION AND INTENT

(1) INTRODUCTION

Dania Beach Marina Corp, the Applicant for 90 North Bryan Road, 70 and 50 South Bryan Road in the City of Dania Beach is proposing to redevelop the 5.79-acre total site area with a mixed-use development known as "90 and 70 Wave" ("Project"). The project consists of predominately residential and commercial along with office use, the density of which is included later in this document.

The proposed development is designed as an integral part of an emerging mixed-use lifestyle corridor along Bryan Road spurred by the development of Dania Pointe, a large-scale Planned Mixed-Use Development (PMUD) on the west side of Bryan Road.

The development activity within this corridor has resulted in the opportunity for property owners along Bryan Road to redevelop their properties into an innovative and compatible mixed-use development. As such, these properties have been rezoned to a newly created Planned Mixed-Use Development-Small Lot (PMUD-SL) zoning district, known as the Bryan Road Corridor PMUD-SL (see Figure 2).

The Dania Beach Marina PMUD-SL (District 1) zoning application included a Master Development Plan ("MDP") (Figure 3) illustrating two (2) districts. This MDP conceptually illustrates the Bryan Road street section, building envelopes and setbacks in order to provide consistency and continuity within the Bryan Road Corridor PMUD-SL. The design guidelines in this document shall apply only to District 1, located at 90 North Bryan Road, 70 South Bryan Rd and 50 South Bryan Road (see Figure 4).

The District 1 PMUD area is 5.92 acres which contributes to the minimum 10-acre requirement set forth in the PMUD-SL for both District 1 and District 2. PMUD area is measured from the centerline of the immediately adjacent roadways and the eastern property boundaries as applicable, thus the reason it is larger than the total site area for District 1 previously mentioned. The property is currently zoned PMUD-SL with an underlying land use of Regional Activity Center (RAC) within the City's Community Redevelopment Area ("CRA") (see Figure 2).

The nearby properties are zoned:

Direction of Nearby Properties	Zoning
South (District 2)	PMUD-SL
East (adjacent canal)	NBHD-RES, IROM and IG
West	PMUD/IROM
North	IROM

The properties to the east of the canal are zoned Neighborhood Residential (NBHD-RES) and General Industrial (IG). Two parcels without an assigned zoning district, are owned by the South Florida Water Management District and separate the District 1 property from the NHBD-RES property. The property to the west, commonly known as Dania Pointe, is zoned Planned Mixed-Use Development (PMUD).

Figure 1: Location Map

The conceptual master plans and design guidelines of this report collectively called “development design guidelines” are designed to best achieve the common goals of the Bryan Road Corridor PMUD-SL and the City of Dania Beach to continue to provide world class destinations and services to the residents of Dania Beach and east Broward County. As proposed, the Master Development Plan (MDP) is broken down into two (2) districts; District 1 (Commercial-Office-Residential-Hotel-Marina) and District 2. District 1 represents approximately 2/3 of the MDP spanning from NW 1st Street on the north to just south of Arrow Place on the south. The properties seek to take advantage of the waterfront at the rear of their properties to provide private amenities, including docking facilities and walkways along the waterfront. Where feasible, that no public ROW impedes, and that both property owners agree, pedestrian cross access is allowed between the districts. This cross-access easement is intended to be a designed amenity such as a continuous boardwalk, sidewalk or

waterfront feature as allowed by the City of Dania Beach, SFWMD and USACE. Each District would be responsible for their respective portion of the cross-access with each respective site plan submittal.

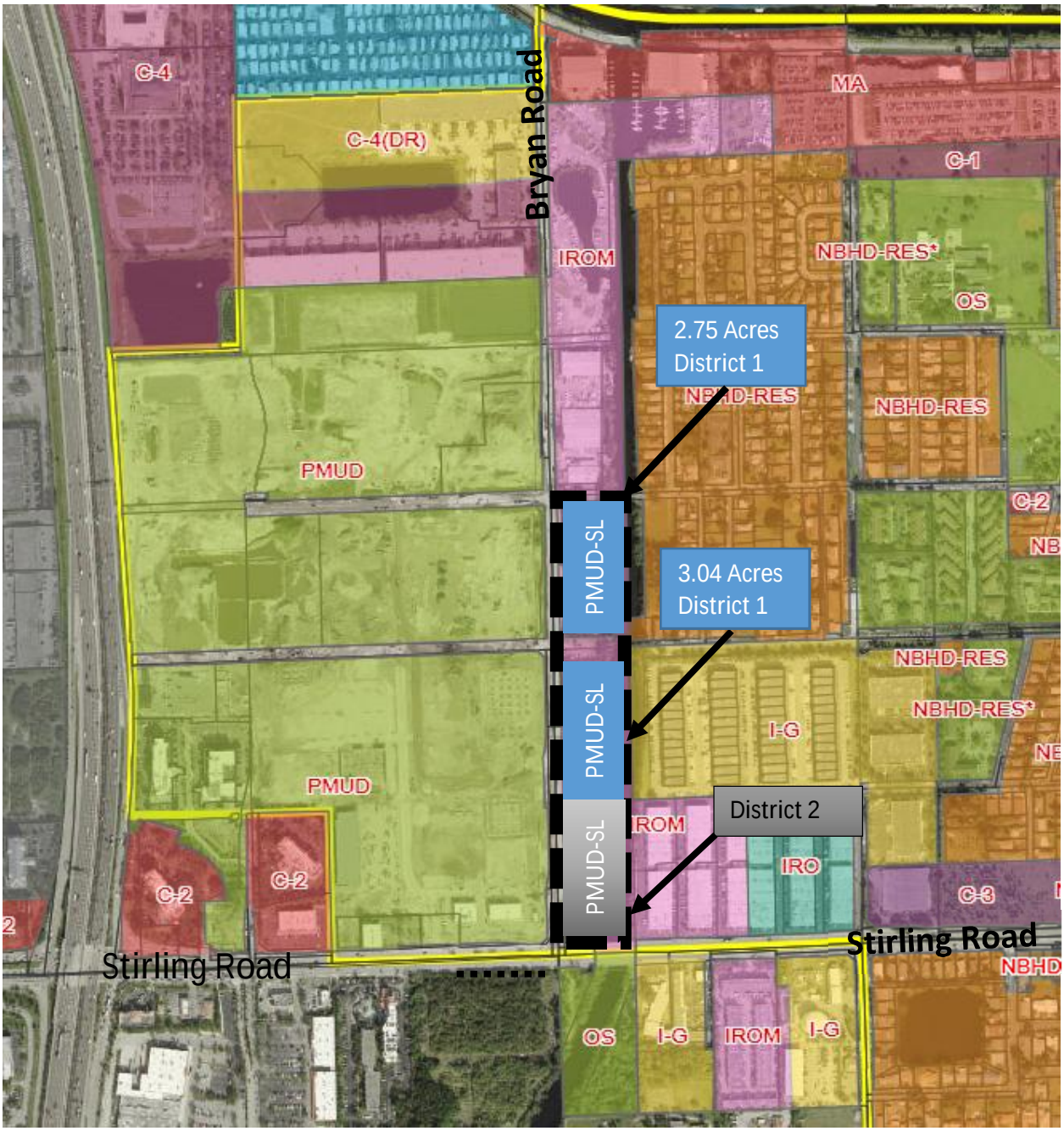
(2) INTENT

The Dania Beach RAC land use designation is intended to provide the needed flexibility to permit increased development intensity on certain sites without the need to process site specific land use plan amendments. The PMUD zoning district adjacent to the property furthers the intent of the City's redevelopment plans by supporting large-scale mixed-use development with direct access to an arterial roadway within the RAC. The City's Land Development Code reserves the PMUD zoning designation for properties that have a minimum size of fifty (50) acres of contiguous land. Thus, a new PMUD-SL district was created for properties that do not meet the minimum 50-acre requirement.

The intent of these design guidelines is to create parameters for District 1 based on the documentation of existing conditions as well as planning for future expansion. The Master Development Plan was required for District 1 to rezone from C-3 and IROM to PMUD-SL which occurred in 2019, (ORD #2019-018, see appendix). The District 1 design guidelines control specific development standards or bulk regulations for District 1. The design guidelines further require architectural, landscaping and design features that would be consistent within District 1 and compatible with elements of the Bryan Road PMUD-SL Master Development Plan, particularly landscaping, pedestrian lighting and hardscape within the Bryan Road Corridor as illustrated in the Bryan Road PMUD-SL Plan and Street Sections.

ZONING MAP

Figure 2: Zoning Map



SECTION 2 DEFINITIONS

Refer to the City of Dania Beach Code of Ordinance Section 725-30 for applicable definitions unless otherwise noted and defined herein.

SECTION 3 PERMITTED USES

The PMUD-SL may only be utilized within the Dania Beach Regional Activity Center (RAC). Generalized permitted uses are those set forth in the Dania Beach RAC which include residential, hotel, commercial, recreation, office and employment center. A functional mix of uses should be provided and may be horizontally and vertically mixed within a building(s) as well as within the PMUD-SL as regulated in these design guidelines. All permitted, conditional, special exception, restricted or prohibited uses within the PMUD-SL shall be identified and established below (see Exhibit 1: Permitted Uses; Exhibit 2: Conditional Uses; Exhibit 3: Prohibited Uses).

Exhibit 1: Permitted Uses

Permitted Uses
(1) Residential (Live/Work)
(2) Commercial
(3) Office
(4) Hotel
(5) Marina

Specific uses include the following:

(1) Community meeting rooms, recreational facilities, private clubs and other places of public assembly accessory to the residential or hotel use.
(2) Retail and service establishments including grocery stores, restaurants, bars or taverns for on-premises consumption of alcoholic beverages, spas, salons, beauty shops, barbershops, athletic clubs or gymnasiums, group instruction, art gallery, daycare center, pet shop, deli, baked goods/bakery including those within a retail/grocery store and other similar uses, watercraft rentals and marine uses.
(3) Art studios and retail shops.
(4) Open-air cafes and restaurants.
(5) Residential including multifamily.
(6) Hotels.
(7) Business, medical, dental and other professional offices.
(8) *Live/Work* unit is defined as a residential dwelling unit which also contains a commercial component operated by the resident of the dwelling unit.

Exhibit 2: Conditional Uses, Special Exceptions or Restricted Uses

Conditional Uses, Special Exceptions or Restricted Uses
None

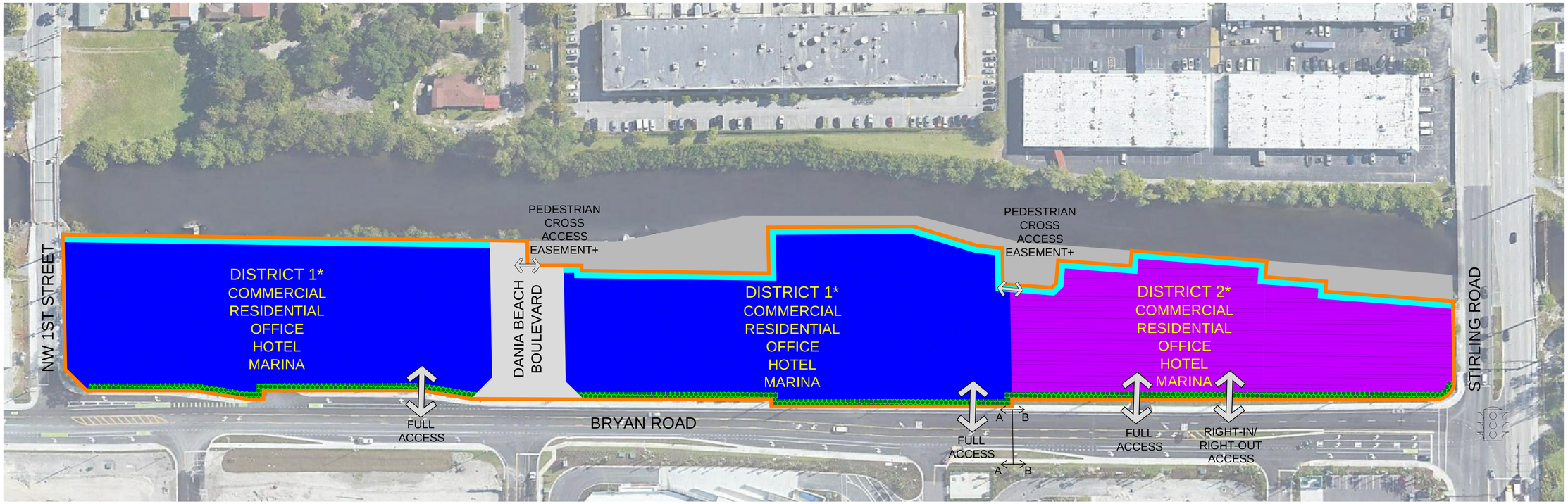
Exhibit 3: Prohibited Uses – Any use not specifically identified as permitted, will be considered prohibited.

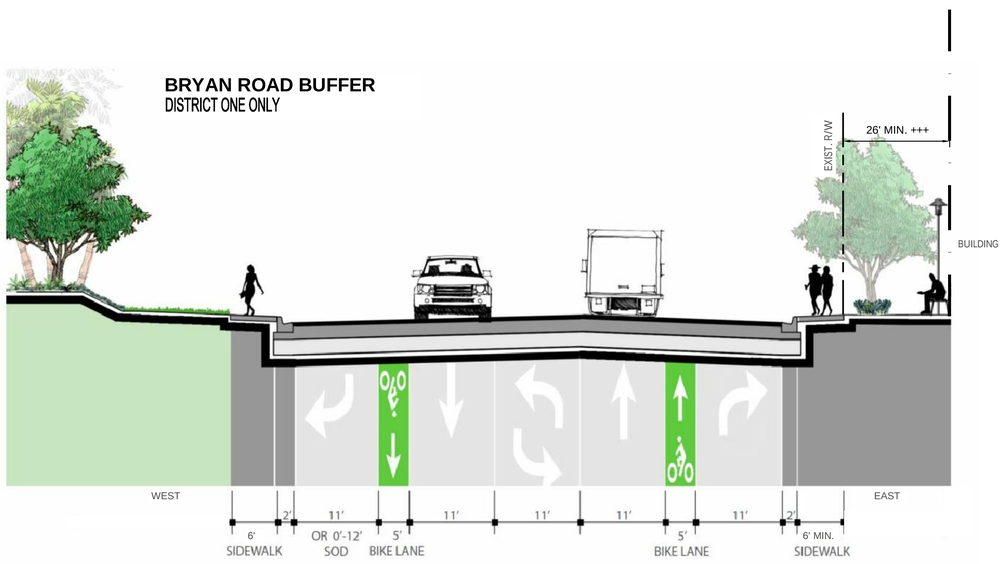
Prohibited Uses
(1) Any use not specifically identified as a permitted use will be considered a prohibited use unless otherwise approved by the City of Dania Beach.

SECTION 4 DISTRICT 1 MASTER DEVELOPMENT PLAN

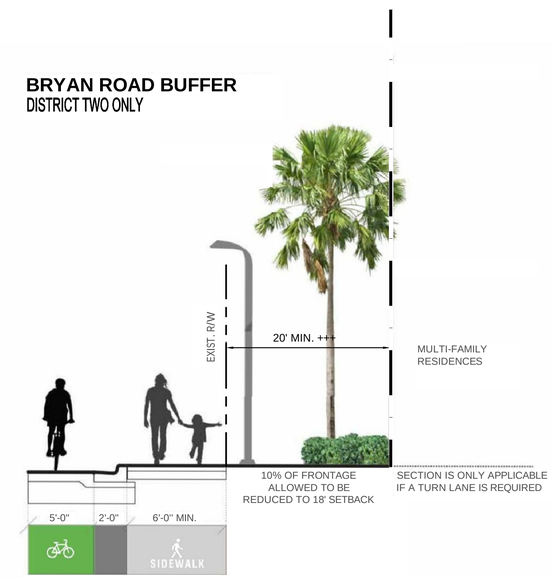
MASTER DEVELOPMENT PLAN

The Master Development Plan ("MDP") is the guide for establishing certain development regulations and criteria for the ultimate build-out of the Bryan Road Corridor PMUD-SL along the frontage of District 1. The MDP provides conceptual graphics to designate elements of the proposed development including building setbacks, site access, and streetscape design. As proposed, Section 5 includes Development Standards, Architectural Standards, Landscape and Irrigation Standards, and Sign Standards. Section 6 includes Utility Provider and Service Standards.





EXISTING BRYAN ROAD - SECTION A



EXISTING BRYAN ROAD - SECTION B

LEGEND

- PROJECT BOUNDARY
- ACCESS POINT
- SIGNALIZED INTERSECTION
- DISTRICT 1
- DISTRICT 2
- INTEGRATED PEDESTRIAN WALKWAY AND/OR LANDSCAPE BUFFER++
- PEDESTRIAN CROSS ACCESS
- FUTURE PROPERTY
- PUBLIC RIGHT OF WAY

* NUMERICAL DESIGNATION OF DISTRICTS IS TO SIGNIFY SEPARATION OF SITE PLANS AND DEVELOPMENT DESIGN GUIDELINES

+ PEDESTRIAN CROSS ACCESS EASEMENT TO BE ESTABLISHED AT NOTED LOCATIONS

++ INTEGRATED PEDESTRIAN WALKWAY AND LANDSCAPE TO INCLUDE STREET CANOPY AND ORNAMENTAL TREES CONSISTENT WITH BEST LANDSCAPING PRACTICES AND AS CONSISTENT WITH THE BRYAN ROAD CROSS SECTIONS. AREA TO ALSO INCLUDE A MINIMUM 6 FOOT WIDE SIDEWALK WITH ORNATE TRASH RECEPTACLES, BENCHES, PEDESTRIAN LIGHTING AND BUS SHELTER WHERE DEEMED NECESSARY. 35 FT TREE SPACING ALONG BRYAN ROAD

+++ REQUIRED MINIMUM BUILDING SETBACK INCLUDES AREA FOR FUTURE EXPANSION OF BRYAN ROAD.

Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

DANIA BEACH MARINA

FIGURE 3: MASTER DEVELOPMENT PLAN - PMUD-SL

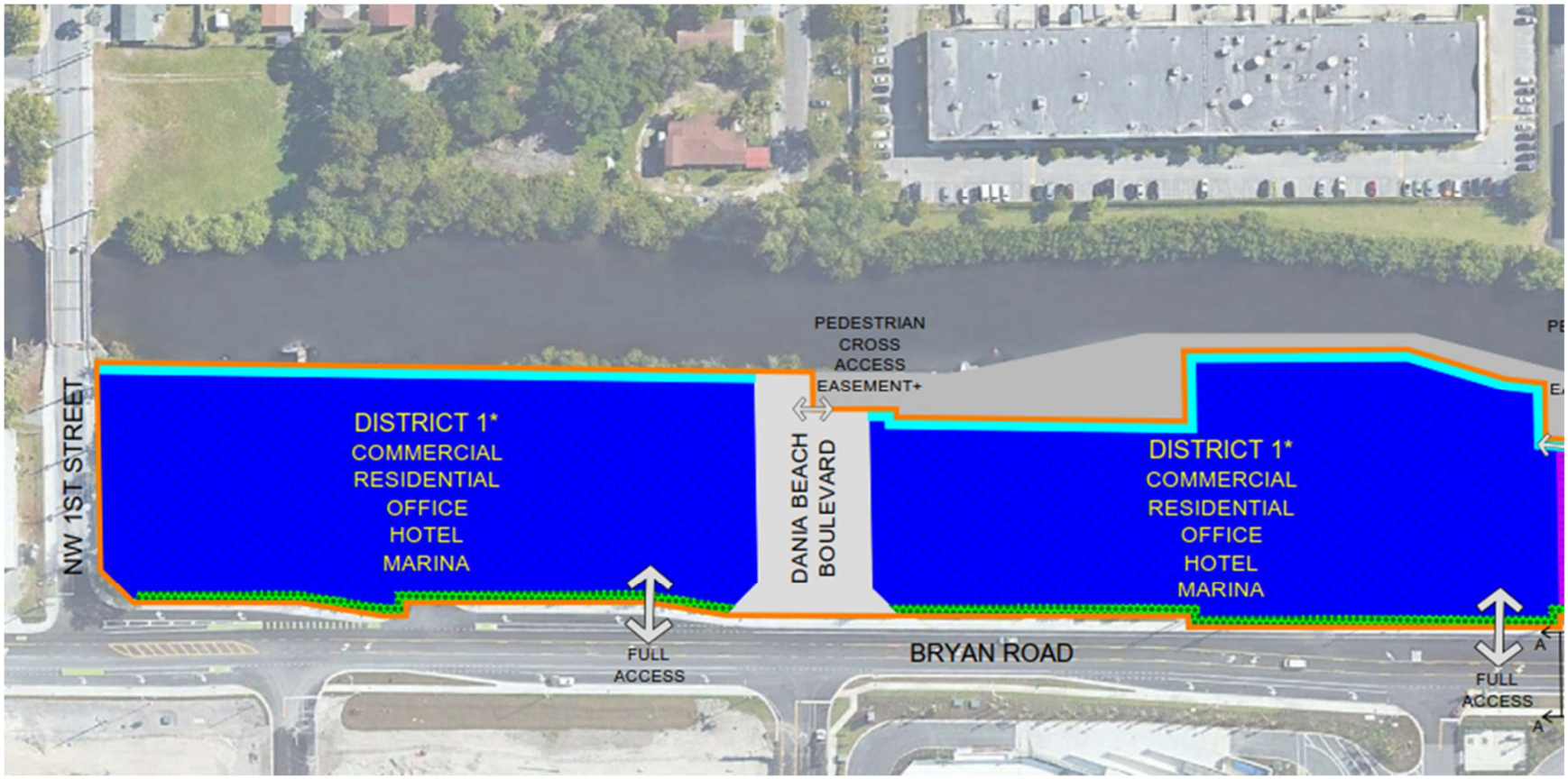
MASTER DEVELOPMENT PLAN
UPDATED 10/28/2019

SHEET NUMBER

MDP

Plotted By:Lawson, Jacob Sheet Set:Kmz Layout:Master Development Plan October 28, 2019 07:36:08am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\Exhibits\MASTER DEVELOPMENT PLAN\Master Development Plan.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Figure 4: *District 1 Master Development Plan*



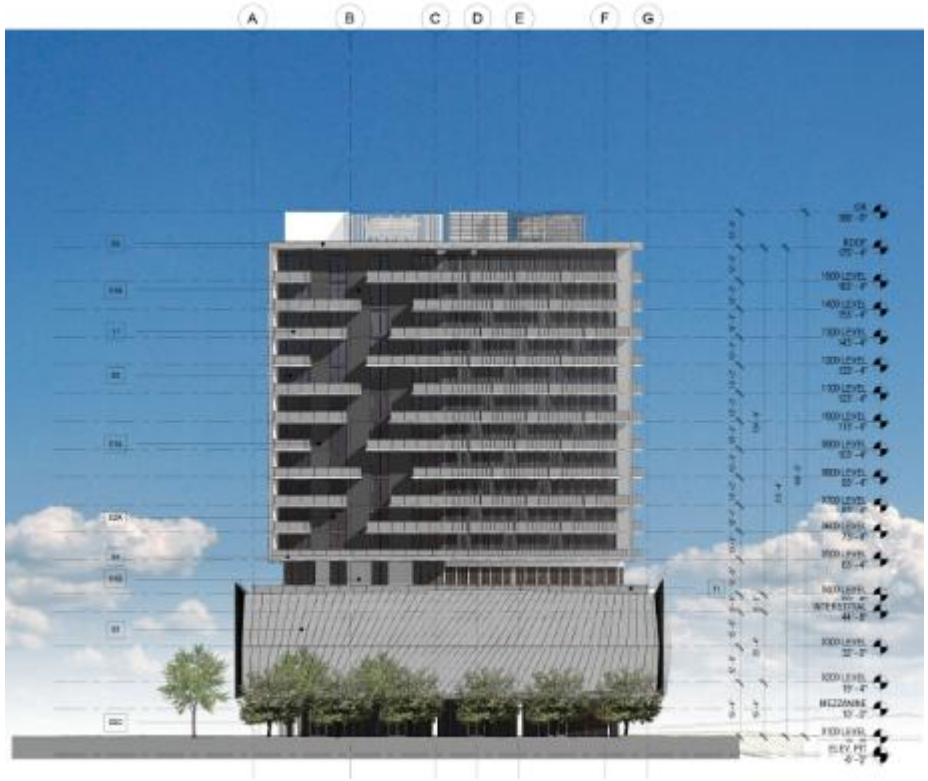
ILLUSTRATIVE GRAPHICS OF BUILDING TYPOLOGIES

Figure 5: *West View*

N21
N20
N19
N18
N17
N16
N15
N14
N13
N12
N11
N10
N9
N8
N7
N6
N5
N4
N3
N2
N1
70
WAVE
70 WAVE

Figure 6: *North Elevation*

Figure 7: *South Elevation*



SECTION 5 DEVELOPMENT STANDARDS

(1) INTENT

Development standards includes those items generally pertaining to the height, perimeter setbacks, orientation, design standards, landscaping, parking, development themes, visual appearance and others as included herein.

(2) COMPATIBILITY

The District 1 design guidelines have been developed based on existing site features, available infrastructure, and the adjacent properties. The Project provides a sustainable mix of compatible land uses both internally and externally with adjacent properties (such as Dania Pointe and those found within the MDP) and, more importantly, provides flexibility to best respond to current and future land uses, changes in building and development patterns and changes to community demographics. Additionally, it provides external compatibility with surrounding properties similarly located within the City's RAC and encouraging compatible land uses to those permitted under the PMUD-SL zoning. In encouraging residential compatibility, PMUD-SL zoning is an effective land use control promoting high quality, compact mixed-use development complemented by commercial and recreation uses with a high level of access to surrounding developments and amenities. These elements form the basis for an attractive community and contribute to improved health, safety, and welfare for residents.

(3) DENSITY AND INTENSITY

The density and intensity of land uses within a PMUD-SL shall be consistent with the Dania Beach RAC provisions set forth in the Future Land Use Element of the City's Comprehensive Plan. As proposed, Bryan Road PMUD-SL District 1 is proposing the following maximum entitlement:

Residential Units		Non-Residential	
Maximum number of units	760	Maximum SF	39,400

(4) LOT COVERAGE, PERVIOUS AREA, AND OPEN SPACE

Lot coverage and pervious area minimums for any lot within, or combination of lots as may be separated by a public ROW, or as the whole of District 1 may be described in accordance with those enumerations in Exhibit 4. *Pervious area* is defined as land surface that presents an opportunity for precipitation to infiltrate directly into the ground. *Open space* is defined as an area that is unencumbered by principal buildings, structures, private streets, driveways, and vehicular use areas. Any space that consists of sidewalk, water, docks, hardscape, pedestrian area, and utility areas may be considered open space. *FAR* is defined in Sec. 725 of the Code and Open-air amenities or floor space not enclosed is not to be counted therein. There is not proposed to be any minimum lot area within the development and if special tax parcels or other parcels are created, it is not the intent to impose these standards or any section of the City code on the individual parcels. The standards shall apply to the entire District 1.

Exhibit 4: Lot Coverage, Pervious Area, & Open Space

Principle Building Coverage	60% Maximum
Pervious Area	5% Minimum
Open Space	35% Minimum
FAR	4.75 Maximum

(5) MINIMUM SETBACKS AND ROADWAY EASEMENT

The following District 1 criteria is established for principal building setback purposes based on the abutting existing right of way lines.

Exhibit 5: Setbacks and Roadway Easement

	Minimum	Location Description
NW 1st Street	15'	Side
Interior	10'	Side
Bryan Rd Existing ROW	26'	Front
Bryan Rd ~~Future~~ Proposed ROW	15'	Front
Dania Beach Blvd	14'	Side
C-10 Canal*	0'	Rear

*measured from property line

Docks, floating docks, seawalls or pavilion structures are allowed to encroach into the area beyond the seawall as long as they are located within property lines. A minimum ten (10') foot wide pedestrian cross-access easement shall be dedicated within the rear property as permitted and allowed by the City of Dania Beach, South Florida Water Management District, USACE and adjacent property owners.

The appurtenances such as balconies, screening or signage are allowed to overhang into any setback up to a maximum of 7.5'. The building setback is allowed to be reduced in the event a right-of-way dedication is required by an agency in the future and authorized by the City of Dania Beach.

(6) BUILDING SEPARATION

Dania Beach Marina represents a mixed-use integrated site design where principal and accessory buildings/structures are interconnected into one (1) unified building structure per lot or combinations thereof. Due to the nature of the development, no building separation standard is proposed. The District 1 buildings will be separated by the public right of way in Dania Beach Boulevard or potential future pedestrian area and setbacks identified in Section 5 above. In the event that this right of way is added into the development and a building is added, the minimum building separation may still be zero feet as approved by the Fire Marshal.

(7) BUILDING HEIGHT

As proposed, the Project is proposing a maximum building height of 188' above finished floor elevation, which height will include appurtenances, architectural features, front facades or similar design features that may be attached to a building.

(8) PUBLIC ACCESS & CIRCULATION

Each building use shall have access to a public street either directly or indirectly via an approach, private road, or other area dedicated to the public or private use or common easement areas. Such paved access at the ultimate right of way line shall be a minimum of 24 feet wide at the existing property line for two-way traffic. The City shall be allowed access on privately owned roadways, easements and common open space to ensure the police and fire protection of the area, to meet emergency needs, to conduct City services, and to generally ensure the health and safety of the residents. A minimum ten (10') foot wide pedestrian cross-access easement shall be dedicated within the rear property as permitted and allowed by the City of Dania Beach, South Florida Water Management District, USACE and the adjacent property owners.

District 1 will be allowed to have a continuous and connected pedestrian circulation system throughout District 1 for all buildings and uses, parking, transit and other common areas by way of the public ROW along Bryan Rd. District 1 shall have the ability to interconnect via any public function that is situated between any non-consecutive or noncontiguous lots of District 1. The property will be interconnected with District 2 of the PMUD-SL for all buildings and uses, parking, transit and common areas by way of the public ROW along Bryan Rd. Furthermore, the PMUD-SL shall be allowed to foster the use of alternative modes of transportation, which will include pedestrian, bicycle, transit, and potentially non-motorized or motorized marine vessels through measures which can include the mix and intensity of uses, building placement, utilization of green practices, transit amenities, and posting of transit route information, as applicable.

(9) OFF-STREET PARKING, STRUCTURED PARKING & LOADING

The proposed mixed-use development within District 1 has the ability to share parking facilities, surface, structured and on-street parking as needed. In addition, parking facilities shall be subject to the following;

(1) No parking space may encroach, hinder or otherwise block a public roadway.
(2) Off-Street Parking, Tandem Parking and Lift Parking may be provided as angled or 90-degree parking stalls with a minimum dimension of eight and one-half (8.5) feet wide by eighteen (18) feet deep measured along the angle of space.
(3) Off-Street Parallel parking may be provided with a minimum dimension of nine (9) feet wide by twenty-two (22) feet deep.
(4) Lift Parking and Tandem Parking may be used to satisfy minimum parking requirements.
(5) Parking Drive-Aisles may be reduced to 22 ft as only necessary.
(6) Parking Garage Columns shall be located within 2' of the entrance of a parking space.
(7) Parking Structure - Speed Ramp not to exceed 17%.
(8) Parking Structure - Park on Ramp not to exceed 6.68%
(9) The clearance between a parking space and a wall (excluding columns) other solid obstruction shall be a minimum of 1 foot only. The application thereof is at the discretion of the Land Development Director.
(10) Wheel stops may be a maximum of 6 inches in height.

Parking ratios are based on the purpose and intent of alternate parking standards described in Sec. 265-60 and the intent of the parking reductions for mixed use developments methodology described in Sec. 265-90 of the Dania Beach Land Development Code. Warranted parking ratios are also based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All required parking for this establishment is met by the required ratios listed herein.

The development intends to implement and contribute to the Dania Beach Regional Activity Center purpose of "creating a compact work, live, shop and leisure environment that reduces transportation needs by combing uses and providing an attractive destination for tourists and local citizens", which is reflected in the parking ratios provided within the Development Design Guidelines (DDGs). The development is supportive of and promotes a "car-free" or "car-optional" lifestyle through a mixture of proximity to uses that fulfill daily needs (i.e. grocery, fitness, pharmacy, employment), increased supply of bicycle parking spaces, access to transit and ridesharing services, and a robust parking & mobility demand management plan. Through the management of parking, the development will provide the following off-street parking ratios:

Exhibit 6:Off-Street Parking

Required Parking Calculation	1.3 spaces per unit, 1 space per 250 SF of General Commercial
Bicycle Parking	Minimum 5% of Vehicle Parking for Residential Minimum 10% of Vehicle Parking for Nonresidential

Service areas including loading/unloading spaces shall be designed to include screen walls, landscaping, or other treatments to limit the visibility of the service area to the adjacent public street. Service areas shall be located outside of a public roadway and where practical, off of private drives, and identified through signage or other similar means. Accessible parking is to be provided based on the premise of the available self-park spaces.

Loading/unloading areas shall be convenient to the building(s) in which it serves. Due to the compact nature of the site, loading and unloading shall reside in the designated loading and unloading areas which may be within the parking garage. In no circumstance should loading or unloading occur in the public right-of-way unless for emergency purposes only. The sharing of such spaces (areas) between individual tenants, uses and buildings within District 1 shall be permitted. As proposed, Dania Beach Marina Redevelopment is providing the following off-street loading spaces:

Exhibit 7: Off-Street Loading

Off Street Loading Areas (minimum of 1 space)	(1) 12'x35' Berth per Building

(10) VALET PARKING & RESERVED PARKING

Up to one-hundred (100) percent of the required number of parking spaces for a use may be provided as valet parking by which attendants receive, park and deliver the automobile of occupants, tenants, customers and visitors, with or without charge. The intent of the development is for the ability of the valet to be an amenity use of the facility.

The operator must possess a valid city issued Certificate of Use, BRT and local business tax receipt for a valet service and prior to its operation. Each valet must be an employee of the operator and each must possess a valid State of Florida driver license. The operator shall have sufficient valets working at all times to avoid excessive stacking in the valet drop-off area. No excessive stacking shall exist when vehicles stacked for valet drop-off or pick-up extend into any drive aisle and impede the flow of routine traffic.

ARCHITECTURAL STANDARDS

(1) INTENT

Buildings, their overall massing and their facades should be designed to communicate a high quality, signature character with a wide appeal to a wide audience. The design should be capable of communicating the type of use being housed within the edifice.

(2) DESIGN ELEMENTS

The use of asymmetry may be utilized strategically to impart interest and relief in the design of the façade.

The design should modulate abutting wall planes and provide articulations through juxtaposed and recessed stacks and where possible. Additionally, the framing or boxing of overall façade elements and the use of double-height elements may be encouraged to provide a sense of scale and legibility to the façade. These may be further enhanced by articulating the boundaries of windows or distinguishing entire stacks of façade elements in a contrasting trim color.

The symmetry and clean lines could be further enhanced by the aluminum railings designed in a horizontal fashion. The color of the railings should be complimentary to the building color. Exterior windows and sliding doors should make use of transparency, while attempting to mediate heat gain, if feasible.

The color schemes should be made-up of a palette of contrasting and complimentary colors in light hues that are responsive to the local identity of the South Florida climate and experience.

(3) ARCHITECTURAL STYLES

The architectural style employed is a sub-tropical modern, contemporary design with design features responsive the international appeal of the South Florida region. It should accentuate sleek, clean geometric lines, overall symmetry and a balanced composition.

(4) BUILDING MATERIALS

Building materials shall be as approved by the Florida Building Code and the City. CBS construction, metal frame and or tilt-up methods may be employed. Finished walls may be finished in stucco, sealed and painted. Where desired, the use of a cladding material may be employed, provided it is consistent with the identity of the overall design and character of the building. Materials should be true and they should prove to be long-lasting. Parapets or flat roofs are allowed.

Sliding Glass Doors and windows may use “Impact” glass, as approved by the Florida Building Code. Glass exterior doors from the lobby, amenity facilities, and retail areas may use impact, clear glass as approved by the Florida Building Code. Solid exterior doors may be hurricane-rated steel doors under the Florida Building Code.

Varying window heights and sizes can be provided to breakdown the overall scale of the façade. Corner glazing can be floor to ceiling to emphasize building edges.

(5) DECORATIVE BALCONIES

Residential unit balconies should provide relief to the façade such that they protrude or recess from the main building plane. Balcony railings shall be decorative in nature to be complementary to the architectural style of the building.

(6) SITE LIGHTING

District 1 is permitted to allow site lighting consistent with the table below:

Exhibit 8: Lighting Standards

Fixture Height	Lighting fixtures shall be a maximum of 25 feet in height.
Light Source	Both LED and Metal Halide fixtures are permitted.
Light Levels	Minimum average light levels of one (1) light foot-candle in pedestrian areas. Maximum light spillage of 0.5 foot candles along areas that front residentially zoned or used land.

In addition, District 1 lighting standards shall be consistent with the MDP per the PMUD-SL. Any right-of-way photometrics are to be supplied by the agency having jurisdiction at the jurisdiction’s expense. District 1 is permitted to have decorative/enhanced lighting to accentuate landscaping or architectural elements i.e. up lighting.

(7) NOISE MITIGATION

Hours for music and entertainment. Music, singing and other forms of entertainment whether amplified or not, shall be permitted indoors at any time during business hours of any facility or business enterprise within the District, and in addition music, singing and entertainment shall be permitted outdoors within the district, however, such outdoor music, singing and entertainment shall not be permitted between the hours of 10:00 p.m. and 10:00 a.m. during weekdays and 11:00 p.m. and 10:00 a.m. on Friday, Saturday, Sunday and legal holidays. Businesses which intend to have outdoor music and entertainment will incorporate noise mitigation measures which may include materials to the extent needed, which mitigate the noise pollution. The logia areas will incorporate sound baffles and/or noise canceling technology in areas where outdoor music is incorporated.

Notwithstanding the foregoing, outdoor music and entertainment whether amplified or not, shall not be permitted in a manner which is plainly audible from a residential property for a period of one (1) continuous minute or longer. Residential property is defined as a property which is zoned Neighborhood Residential (NBHD) and occupied by a residential structure. For purposes of this section, compliance with this section shall be determined by standing on or within the real property line of the complainant's residential property.

LANDSCAPE DESIGN STANDARDS

(1) INTENT

The landscape subsection is intended to establish design standards for the planting and irrigation surrounding the site which shall be integrally designed to enhance the high-quality signature character and visual interest of District 1 while implementing Florida Friendly principles. Landscaping shall be used and located throughout the development to provide a pedestrian friendly environment for visitors and residents alike. The purpose of these provisions is to establish buffering and landscaping guidelines. The project has been designed to require buffering based upon the proximity and style of the building near the public right of way. Additionally, the project's location on a canal allows for a unique opportunity to provide environmental features and benefits where possible.

(2) DEFINITIONS

Refer to Code Section 825-50 for landscape/tree preservation related definitions unless otherwise noted herein.

(3) GREEN DESIGN PRACTICES

The Green Design Practices subsection is intended to encourage the use of recycled materials, energy efficient design, water conservation, and green building standards. Charging stations may be provided for 1 % of parking spaces within the garage. Recycling bins shall be provided to the residents. The units will be designed with energy efficient air conditioners and toilets. Showers may be water conserving and other appliances can include energy efficient standards. The irrigation system shall be designed to conserve water as well as provide a rain sensor.

(4) GENERAL LANDSCAPE & IRRIGATION STANDARDS

The General Landscape Standards subsection is intended to encourage landscaping as a tool to enhance the pedestrian experience, provide beautification, provide a delineation of access, enhance features and architecture and provide environmental enhancement and preserve the natural edge along the east property line where possible. Pedestrian areas along Bryan Road shall include canopy trees which provide shade and aesthetic enhancements without conflicting with vehicles or pedestrian movement. Florida-friendly plants and landscaping principles shall be implemented in this mixed-use landscaping project. Florida-friendly principles will be followed so that a large percentage of native species are specified to conserve water and preserve natural resources.

1. Plant Material:
    a. The plant palette used for District 1 shall be composed of a minimum of 50 percent native species for trees, shrubs and groundcovers.

2. Due to the narrow nature of the property along Bryan Road, in District 1, tree cutouts within sidewalks or paver areas and other publicly accessible plaza areas shall be provided where possible to enhance the pedestrian experience. Palms or canopy trees can be provided to enhance the building façade.
3. Root barriers:
    a. Canopy trees installed within ten (10) feet of utilities or a sidewalk shall provide a root barrier.
4. Schematic Irrigation plan submittals will be provided per City Code for the construction permit submittals.
5. Pervious area and open space minimums are to be consistent with that which is required by these development design guidelines.

(5) BUFFERS & SCREENING

The Buffers and Screening subsection is intended to protect the views of the residents and adjacent property owners while establishing defined edges for the resident's safety and security.

(A) Buffer Dimension and Design: The following establishes the minimum buffer design requirements and minimum widths:

1. C-10 Canal Buffer: Per code section 275-90(b)(1), when multi-family is adjacent to public right of way, there is no specific buffer requirement, especially as there is a canal right of way; however, existing native Mangrove trees exist in the SFWMD right of way and shall be preserved unless modified by permit from SFWMD or USACE. Potted trees/palms can be utilized to meet any buffer requirements along the canal as long as they are semi-permanent structures. This, or a mixture of potted plants along with the utilization of the green screen if desired, can be considered sufficient to meet any requirements. C-10 Canal Buffer to read that the trademarked Greenscreen® (Greenscreen.com) will be utilized in situations where the potted trees/palms cannot be provided.
2. NW 1st St. Buffer: The North Buffer shall include a minimum 5' wide landscape buffer which contains one canopy tree per 40 lineal feet and a continuous hedgerow. If overhead utilities limit tree height, 1 palm or understory tree per 40 LF.
3. Interior (Adjacent to District 2): The South Buffer shall include a minimum 5' wide landscape buffer which contains one canopy tree per 40 lineal feet and a continuous hedgerow.
4. Bryan Rd Buffer: The West Buffer shall include a minimum of 1 canopy per 35 lineal feet. Where conflicts with Architectural elements occur, palms may be utilized in lieu of a canopy. Additionally, tree cut outs may have shrub and/or other ground cover plant material. Pedestrian amenity areas with outdoor seating and plaza areas shall be provided where feasible and consistent with the overall architecture and site design. Within the area of future right-of-way dedication, it shall be permitted to install native grasses or sod.
5. Dania Beach Blvd Buffer: See Exhibit below.
6. Within landscape buffers, the required trees and shrubs may be clustered to provide view corridors to signage and allow for clearance for utilities, drainage and visibility at intersections. The distance between landscape cluster areas shall not exceed 50 feet subject to the location of roadways, driveways, signage and/or infrastructure.

7. Any property screening may include vinyl coated fencing in combination with identified hedging materials at the sole discretion of the developer. Screen walls or buffer walls are not permitted in any scenario.

Exhibit 9: Buffer Summary Table

Buffer	Minimum Width*	Planting Requirements
NW 1st Street	5'	1 canopy/ 40 LF + hedge (unless overhead utilities)
Interior	5'	1 canopy/ 40 LF + hedge (unless overhead utilities)
Bryan Rd Existing ROW	8'	1 canopy/ 35 LF (Where conflicts with Architectural elements occur, palms may be utilized in lieu of a canopy).
Bryan Rd Proposed ROW	8'	1 canopy/ 35 LF (Where conflicts with Architectural elements occur, palms may be utilized in lieu of a canopy).
Dania Beach Blvd	5'	3 understory/palm / 40 LF**
C-10 Canal*	Not Applicable**	1 tree and 10 shrubs / 80 LF

*measured from property line
**No width provided; buffer is provided as approved by City staff
** 3 understory may equate to a canopy tree

SIGN DESIGN STANDARDS

(1) INTENT

The sign subsection is intended to establish graphics that provide for establishment identification and directional communication, while allowing the creation of unique and informative signs. The objective of quality signage and graphics is to present a clear hierarchy of information, direction and organization. Conformity in style, materials and location of signage will be a major element in establishing the design theme continuity with the Dania Beach Marina Redevelopment design guidelines. All vehicular signs shall conform with the FDOT Index 546 sight triangle requirements.

(2) GENERAL SIGN REGULATIONS

All signs to follow the requirements of the Land Development Code Article 505 sections 505-10, 505-20, 505-30, 505-40, 505-50 and 505-90, unless otherwise noted herein.

Exhibit 10: Signage Summary Table

	Maximum
Building Identification	10% of Building Façade
	Consistent with overall design and color

Tenant Identification	One (1) sign per column bay, as needed
	Two (2) feet tall by twenty-five (26) feet in width
	Consistent with overall design, color and tenant requirements

UTILITY PROVIDER AND SERVICE

Water and wastewater service is presently available to the property and provisions have been made for the connection to these systems; connection points will be coordinated with the City of Dania Beach. Utilities are intended to be designed and developed as private infrastructure connecting to public systems. Lift Stations are to be constructed as private stations. All utilities beyond the point of service are private facilities. Utility designs will meet Broward County and Florida Department of Health and Environmental Protection Standards. Easements necessary to serve the development (internal) shall be provided as follows:

- 10' where similar utility lines are installed separately and horizontally separated by the FDEP minimum of 3 ft; or
- 20' where differing utility lines are co-located

Easements will be dedicated to the City via a separate instrument; a plat shall not be required. Development will comply with Florida State Statutes 633, Florida Administrative Code 69A, currently adopted NFPA codes, the currently adopted edition of The Florida Fire Prevention Code and the currently adopted edition of the Broward County Amendments to The Florida Fire Prevention Code.

CITY OF DANIA BEACH REVIEW PROCESS

In accordance with the purpose and intent of the Planned Mixed-Use Development District, and to encourage and facilitate quality development and redevelopment within the Regional Activity Center, the following changes, modifications, or amendments to the approved DDG, including the Master Development Plan (MDP), or site plan shall be considered Minor deviations and subject to the administrative review process described in Section 340-40(D)(6).

APPENDIX

ORDINANCE NO. 2019–018

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE REQUEST, MADE BY STEPHANIE J. TOOTHAKER, ESQ. P.A. (TOOTHAKER.ORG) AND GREENSPOON MARDER, ON BEHALF OF DANIA BEACH MARINA CORP, NV MARINA HOLDINGS LLC, RJ MARINA HOLDINGS LLC, AND PROJECT USA LLC, TO REZONE (RZ-104-19) THE PROPERTIES GENERALLY LOCATED AT 90 NORTH BRYAN ROAD, 50 SOUTH BRYAN ROAD, 70 SOUTH BRYAN ROAD, AND 150 SOUTH BRYAN ROAD IN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE, FROM INDUSTRIAL RESEARCH OFFICE MARINE (IROM) AND GENERAL BUSINESS (C-3) TO PLANNED SMALL LOT MIXED-USE DEVELOPMENT (PMUD-SL), SUBJECT TO CERTAIN RESTRICTIONS, PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, pursuant to Chapter 28, entitled "Land Development Code," (LDC) of Part 6, entitled "Development Review Procedures and Requirements," Article 645 "Rezoning" (the "City Code"), Dania Beach Marina Corp, NV Marina Holdings LLC, RJ Marina Holdings LLC, and Project USA LLC (the "Applicants") have applied to the City of Dania Beach (the "City") for approval of a Rezoning (RZ-104-19) from IROM and C-3 to PMUD-SL for property generally located at 90 North Bryan Road, 50 South Bryan Road, 70 South Bryan Road, and 150 South Bryan, as legally described in Exhibit "A;" and

WHEREAS, the City Planning and Zoning Board, sitting as the Local Planning Agency (the "LPA"), held a duly advertised public hearing on September 18, 2019 and recommended approval of the Rezoning (RZ-104-19) request; and

WHEREAS, the City Commission conducted two (2) duly noticed public hearings in accordance with law; and

WHEREAS, the City Commission finds that the approval of the proposed Rezoning (RZ-104-19) will protect the public health, safety, and welfare of the residents of the City, and further the purpose, goals, objectives and policies of the Comprehensive Plan.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the foregoing "WHEREAS" clauses are ratified and confirmed as being true and correct, and they are made a part of a specific part of this Ordinance.

Section 2. That pursuant to Chapter 28 "Land Development Code," Part 6 "Development Review Procedures and Requirements," Article 645 "Rezoning," the Rezoning request (RZ-104-19) from IROM and C-3 to PMUD-SL, for the property generally located at 90 North Bryan Road, 50 South Bryan Road, 70 South Bryan Road, and 150 South Bryan, as legally described in Exhibit "A," is approved.

Section 3. That issuance of a development permit by a municipality does not in any way create any right on the part of an applicant to obtain a permit from a state or deferral agency and does not create any liability on the part of the municipality for issuance of the permit if the applicant fails to first obtain requisite approvals or fulfill the obligations imposed by a state or federal agency or undertakes actions that result in a violation of state or federal law.

Section 4. That if any section, clause, sentence or phrase of this Ordinance is for any reason held invalid or unconstitutional by a court of competent jurisdiction, the holding shall not affect the validity of the remaining portions of this Ordinance.

Section 5. That all ordinances or parts of ordinances in conflict with the provisions of this Ordinance are repealed to the extent of such conflict.

Section 6. That this Ordinance shall be effective immediately upon its passage and adoption on second reading.

PASSED on first reading on October 7, 2019.

PASSED AND ADOPTED on second reading on October 28, 2019.

ATTEST:

Thomas Schneider

THOMAS SCHNEIDER, CMC
CITY CLERK

DANIA BEACH ESTABLISHED 1904

LORI LEWELLEN
MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

EXHIBIT "A"

LEGAL DESCRIPTION

THE SOUTH ONE-HALF OF THE SOUTHWEST ONE-QUARTER (SW 1/4) OF THE NORTHWEST ONE-QUARTER (NW 1/4) OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, LESS ALL OF THAT PORTION LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:

COMMENCING AT THE NE CORNER OF THE SE 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 26 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE 1/4 (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1111.05 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1674.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SW 1/4 OF THE NW 1/4 OF THE SE 1/4 OF THE SE 1/4 OF SAID SECTION; THENCE, NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET; THENCE, SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 150.0 FEET; THENCE , SOUTH 89 DEGREES, 17 MINUTES 30 SECONDS WEST, A DISTANCE OF 14.50 FEET; THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE S 1/2 OF THE SW 1/4 OF THE NW 1/4 OF THE SE 1/4 AND THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 118 FEET FROM THE LAST POINT OF DEFLECTION; THENCE, NORTH 87 DEGREES 05 MINUTES 43 SECONDS WEST, A DISTANCE OF 20.0 FEET; THENCE, SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 70 FEET; MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE SW 1/4 OF THE NW 1/4 OF THE SE 1/4 OF THE SE 1/4 OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.

ALSO LESS THE WEST 30.0 FEET OF THE SOUTH HALF (5 1/2) OF THE SOUTHWEST QUARTER (SW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

ALSO LESS ALL THAT PORTION OF THE SOUTH 10.0 FEET OF THE SOUTH HALF (3 1/2) OF THE SOUTHWEST QUARTER (SW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4)

OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, LYING WEST OF CENTRAL & SOUTHERN FLORIDA FLOOD CONTROL DISTRICT CANAL C-10 RIGHT OF WAY.

AND

THE NORTH ONE-HALF (N 1/2) OF THE SOUTHWEST ONE-QUARTER (SW 1/4) OF THE NORTHWEST ONE-QUARTER (NW 1/4) OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST. LESS ALL OF THAT PORTION LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:

COMMENCING AT THE NE CORNER OF THE SE 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 26 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE 1/4 (CENTERLINE OF N.W. 2ND STREET), A DISTANCE OF 1111.05 FEET; THENCE, SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1674.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF SW 1/4 OF NW 1/4 OF SE 1/4 OF SE 1/4 OF SAID SECTION; THENCE, NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET TO THE POINT OF BEGINNING; THENCE, SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 150.0 FEET; THENCE, SOUTH 89 DEGREES 17 MINUTES 30 SECONDS WEST, A DISTANCE OF 14.50 FEET; THENCE, SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE NORTH 1/2 OF SW 1/4 OF NW 1/4 OF SE 1/4 OF SE 1/4 OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.

ALSO LESS THE WEST 30.0 FEET OF THE NORTH HALF (N1/2) OF THE SOUTHWEST QUARTER (SW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

TOGETHER WITH (CANAL PORTION)

A PORTION OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NE CORNER OF THE SE 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, THENCE SOUTH 8726'41" WEST (BASIS OF BEARING), ALONG THE NORTH LINE OF SAID SOUTHEAST 1/4 (CENTERLINE OF NORTHWEST 2ND STREET) A DISTANCE OF 1111.05 FEET; THENCE SOUTH 00'50'21" EAST, A DISTANCE OF 1677.24 FEET, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SAID SECTION; THENCE, NORTH 87°23'42" EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 87'23'42" EAST, A DISTANCE OF 28.82 FEET; THENCE SOUTH 01'58'30" EAST, A DISTANCE OF 201.92 FEET; THENCE SOUTH 15'11'27" WEST, A DISTANCE OF 92.10 FEET; THENCE SOUTH 04'24'06" WEST, A DISTANCE OF 35.50 FEET; THENCE SOUTH 87'25'33" WEST, A DISTANCE OF 49.86 FEET TO A POINT ON THE EXISTING WESTERLY RIGHT OF WAY LINE OF THE CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT C-10 CANAL RIGHT OF WAY; THENCE NORTH 02'46'39" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 59.99 FEET; THENCE SOUTH 8713'21" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 20.00 FEET; THENCE NORTH 02'4699" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 118.00 FEET; THENCE NORTH 89'09'52" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 14.50 FEET; THENCE NORTH 00°50'08" WEST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY UNE, A DISTANCE OF 150.00 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH:

PARCEL A OF "CLARKE SUBDIVISION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 101, PAGE 32 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

TOGETHER WITH:

A PARCEL OF LAND BEING LOCATED IN THE SOUTHEAST ONE-QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST (SE) CORNER OF SAID SECTION 33; THENCE NORTH 01°17'46" WEST ALONG THE EAST LINE OF SAID

SECTION 33 FOR A DISTANCE OF 1,340.78 FEET; THENCE SOUTH 8730'33" WEST FOR A DISTANCE OF 1,118.51 FEET TO THE NORTHEAST (NE) CORNER OF A PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 8775, PAGE 400 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; THENCE SOUTH 01'26'53" EAST ALONG THE EAST LINE OF SAID PARCEL FOR A DISTANCE OF 50.01 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG AFORESAID LINE FOR A DISTANCE OF 25.00 FEET TO THE SOUTHEAST (SE) CORNER OF SAID PARCEL, (SAID POINT ALSO BEING THE NORTHEAST CORNER OF PARCEL A OF "CLARKE SUBDIVISION" AS RECORDED IN PLAT BOOK 101, PAGE 32 OF THE PUBLIC RECORDS OF BROWARD COUNTY,FLORIDA); THENCE SOUTH 87°30'33" WEST ALONG THE SOUTH LINE OF AFOREMENTIONED PARCEL (SAID LINE ALSO BEING THE NORTH LINE OF SAID "CLARKE SUBDIVISION" PLAT) FOR A DISTANCE OF 186.10 FEET TO THE NORTHWEST (NW) CORNER OF PARCEL A OF SAID PLAT; THENCE NORTH 4290'48" EAST, A DISTANCE OF 35.36 FEET; THENCE NORTH 873093" EAST ALONG A LINE 25 FEET NORTH OF AND PARALLEL WITH THE NORTH LINE OF SAID "CLARKE SUBDIVISION" A DISTANCE OF 161.55 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH:

A 10.00 FOOT WIDE STRIP OF LAND BEING A PORTION OF THE SOUTH 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE NORTHEAST CORNER OF TRACT "A", "SYMONS PLAT", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 82, PAGE 49, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, A POINT ON THE SOUTH LINE OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE AFOREMENTIONED SOUTHEAST 1/4 OF SECTION 33; THENCE NORTH 02°54'17" EAST ON THE NORTHERLY EXTENSION OF THE EAST LINE OF SAID TRACT "A" 10.04 FEET TO A POINT ON A LINE 10.00 FEET NORTH OF AND PARALLEL TO THE AFOREMENTIONED SOUTH LINE; THENCE SOUTH 87°32'09" WEST ON SAID PARALLEL LINE 170.23 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF NORTH BRYAN ROAD; THENCE SOUTH 01°29'32" EAST ON SAID RIGHT-OF--WAY LINE 10.00 FEET TO A POINT ON THE AFOREMENTIONED SOUTH LINE,

ALSO BEING THE WESTERLY EXTENSION OF THE NORTH LINE OF SAID TRACT "A"; THENCE NORTH 87°32'09" EAST ON SAID SOUTH LINE, SAID WESTERLY EXTENSION AND SAID NORTH LINE 169.46 FEET TO THE POINT OF BEGINNING.

AND

A PARCEL OF LAND IN THE S.W. 1/4 OF THE S.E. 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTH EAST CORNER OF THE S.E.1/4 OF SAID SECTION 33; THENCE RUN SOUTH 87°34'20" WEST (ON AN ASSUMED BEARING) 1183 FEET ALONG THE SOUTH LINE OF SAID S.E. 1/4 TO A POINT OF INTERSECTION WITH THE WESTERLY RIGHT OF WAY LINE OF THE CENTRAL AND SOUTH FLORIDA FLOOD CONTROL DISTRICT CANAL C-10, AND THE POINT OF BEGINNING; THENCE RUN NORTH 2°25'40" WEST 94.19 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE TO A POINT OF INTERSECTION; THENCE RUN NORTH 2°54'17" EAST 577.86 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE TO AN INTERSECTION WITH THE NORTH LINE OF SAID S.W. 1/4 OF THE S.E. 1/4 OF THE S.E. 1/4: THENCE RUN SOUTH 87°32'21" WEST 169.49 FEET ALONG SAID NORTH LINE, TO AN INTERSECTION WITH A LINE 30 FEET EAST OF, AS MEASURED AT RIGHT ANGLES, AND PARALLEL TO THE WEST LINE OF SAID S.W. 1/4 OF THE S.E. 1/4 OF THE S.E. 1/4; THENCE RUN SOUTH 1°29'38" EAST 669.54 FEET ALONG SAID PARALLEL LINE, ALSO FORMING THE EASTERLY RIGHT OF WAY LINE OF BRYAN ROAD, TO AN INTERSECTION WITH SAID SOUTH LINE OF THE S.E. 1/4 OF SECTION 33; THENCE RUN NORTH 87°34'20" EAST 126.70 FEET ALONG SAID SOUTH LINE, TO THE POINT OF BEGINNING. SAID LANDS SITUATE IN BROWARD COUNTY. FLORIDA.

TRACT "A", OF "SYMONS PLAT" ACCORDING TO THE PLAT THEREOF. AS RECORDED IN PLAT BOOK 82, PAGE 49. OF THE PUBLIC RECORDS OF BROWARD COUNTY.FLORIDA, LESS AND EXCEPT THE FOLLOWING DESCRIBED PARCEL:

BEGINNING AT THE SOUTHEAST CORNER OF SAID TRACT 'A", THENCE SOUTH 87°55'33" WEST ON AN ASSUMED BEARING ALONG THE SOUTH LINE OF SAID TRACT "A" A DISTANCE OF 14.00 FEET; THENCE NORTH 21°13'56" EAST A DISTANCE OF 35.39 FEET TO THE EAST LINE OF SAID TRACT "A"; THENCE SOUTH 02°44'22" EAST

ALONG SAID EAST LINE A DISTANCE OF 32.50 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH:

A PARCEL LYING IN SOUTH FLORIDA WATER MANAGEMENT DISTRICTS C=10 CANAL RIGHT-OF-WAY, SAID RIHGT-OF-WAY AS DESCRIBED IN OFFICIAL RECORDS BOOK 1917,PAGE 535. OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; SAID PARCEL BEING IN THE SOUTHEAST QUARTER OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA; BEING MORE PARTICULARLY DESCRIBED AS:

COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST;

THENCE SOUTH 87°34'20" WEST ALONG THE SOUTH LINE OF SAID SOUTHEAST QUARTER OF SECTION 33, A DISTANCE OF 1182.94 FEET TO A POINT, SAID POINT AND THE FOLLOWING 3 COURSES AND DISTANCES BEING ON THE WESTERLY LINE OF THE AFOREMENTIONED SOUTH FLORIDA WATER MANAGEMENT DISTRICT'S C-10 CANAL: (1)THENCE NORTH 02°25'40" WEST, A DISTANCE OF 55.00 FEET TO THE POINT OF BEGINNING, SAID POINT BEING ON THE NORTH RIGHT-OF-WAY LINE OF STIRLING ROAD AND THE SOUTHEAST CORNER OF TRACT A" OF SYMONS PLAT", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 82, PAGE 49. OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA;

(2) THENCE CONTINUE NORTH 02°25'40" WEST, ALONG THE EAST LINE OF SAID TRACT "A", A DISTANCE OF 39.19 FEET;

(3) THENCE NORTH 02°54'17" EAST ALONG THE EAST LNE OF SAID TRACT "A", A

DISTANCE OF 520.19 FEET;

THENCE SOUTH 44°17'40" EAST A DISTANCE OF 8.83 FEET;

THENCE SOUTH 87°0543" EAST, A DISTANCE OF 32.02 FEET;

THENCE SOUTH 02°54'17" WEST, A DISTANCE OF 101.00 FEET;

THENCE SOUTH 87°05'43" EAST, A DISTANCE OF 21.00 FEET;

THENCE SOUTH 02°54'17" WEST, A DISTANCE OF 188.33 FEET;

THENCE NORTH 87°05'43" WEST. A DISTANCE OF 22.00 FEET,

THENCE SOUTH 02°54'17" WEST, A DISTANCE OF 84.67 FEET;

THENCE NORTH 87°05'43" WEST. A DISTANCE OF 14.00 FEET;

THENCE SOUTH 02°54'17" WEST, A DISTANCE OF 177.35 FEET TO A POINT, SAID POINT

BEING ON THE NORTH RIGHT-OF-WAY LINE OF STIRLING ROAD.

THENCE SOUTH 87°34'20" WEST ALONG SAID RIGHT-OF-WAY OF STIRLING ROAD, A

DISTANCE OF 19.94 FEET TO THE POINT OF BEGINNING.

SAID LANDS LYING AND SITUATE IN THE CITY OF DANIA, BROWARD COUNTY, FLORIDA.

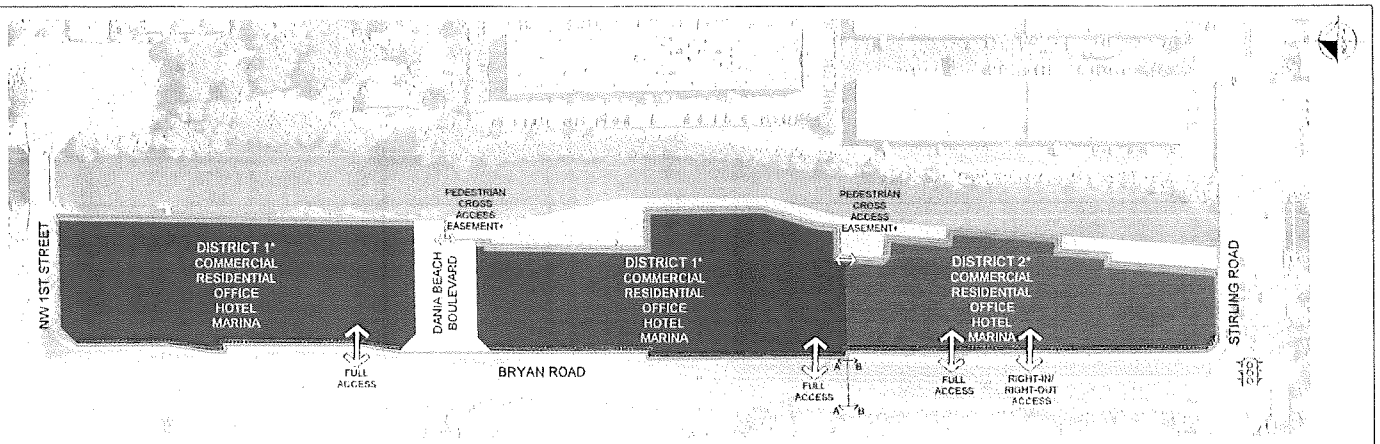
TOGETHER WITH:

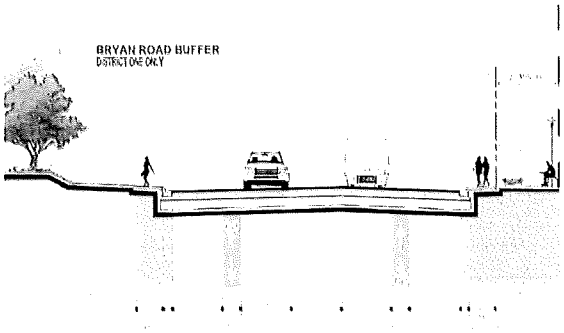
ALL OF PARCEL "A", OF "BRYAN ROAD WAREHOUSES", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN THE PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; TOGETHER WITH A 40 FOOT STRIP OF LAND LYING ADJACENT TO AND CONTIGUOUS WITH THE EASTERLY BOUNDARY OF SAID PARCEL "A".

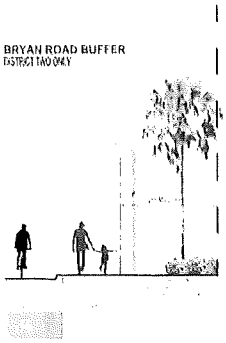
PARCEL "A" ALSO DESCRIBED AS:

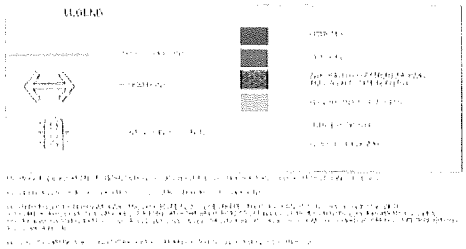
THE WEST (W.1/2) OF THE SOUTHWEST QUARTER (SW.1/4) OF THE NORTHEAST QUARTER (NE.1/4) OF THE SOUTHEAST QUARTER (SE.1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, SAID LANDS SITUATED, LYING AND BEING IN BROWARD COUNTY, FLORIDA; LESS THOSE PORTIONS CONVEYED BY WARRANTY DEEDS RECORDED IN OFFICIAL RECORDS BOOK 2161, PAGE 802; OFFICIAL RECORDS BOOK 3559, PAGE 291 AND OFFICIAL RECORDS BOOK 5499, PAGE 397, ALL IN THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. SUBJECT TO EXISTING EASEMENTS, RIGHTS OF WAY, COVENANTS, RESERVATIONS AND RESTRICTIONS OF RECORDS, IF ANY.

SAID LANDS BEING IN THE CITY OF DANIA BEACH, BROWARD COUNTY, FLORIDA AND CONTAINING 102954.01 SQUARE FEET OR 2.36 ACRES MORE OR LESS.









Kimley»Horn

DANIA BEACH MARINA

MASTER DEVELOPMENT PLAN
UPDATED 10/28/2019

MDP

ORDINANCE NO. 2019-015

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, TO AMEND CHAPTER 28, THE "LAND DEVELOPMENT CODE," OF THE CITY'S CODE OF ORDINANCES BY AMENDING ARTICLE 100 "GENERAL USE REGULATIONS APPLYING TO ALL ZONING DISTRICTS," ARTICLE 110 "USE REGULATIONS FOR COMMERCIAL AND MIXED-USE DISTRICTS," ARTICLE 200 "USER GUIDE FOR PART 2 OF THE CODE," PART 3 "SPECIAL ZONING DISTRICTS," CREATING SUBPART 5, "PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT (PMUD-SL)," ARTICLE 350 "PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT (PMUD-SL), ARTICLE 300 "HOW TO USE," ARTICLE 405 "UTILITIES IN NEW SUBDIVISIONS," ARTICLE 410 "DRAINAGE FACILITIES," ARTICLE 420 "APPROVAL, GUARANTEE AND CONSTRUCTION OF OFF-SITE IMPROVEMENTS," ARTICLE 500 "GENERAL PROVISIONS; HOW TO USE," ARTICLE 505 "SIGN REGULATIONS," ARTICLE 510 "PRINCIPAL ARTERIAL COMMERCIAL DESIGN STANDARDS," ARTICLE 515 "GASOLINE SERVICE STATIONS," ARTICLE 520 "LARGE RETAIL ESTABLISHMENT STANDARDS," ARTICLE 530 "PARKING STRUCTURE DESIGN," ARTICLE 600 "GENERAL PROVISIONS AND APPLICATION REQUIREMENTS," AND ARTICLE 635 "SITE PLANS" TO PROVIDE FOR PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT (PMUD-SL) REGULATIONS, DEVELOPMENT REVIEW PROCEDURES, AND REQUIREMENTS; PROVIDING FOR SEVERABILITY; PROVIDING FOR CONFLICTS; PROVIDING FOR INCLUSION IN THE CODE; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Article VIII, Section 2 of the Florida Constitution, and Chapter 166, Florida Statutes, provide municipalities the authority to exercise any power for municipal purposes, except where prohibited by law, and to adopt ordinances in furtherance of such authority; and

WHEREAS, Objective V of the Future Land Use Element of the City of Dania Beach Comprehensive Plan provides that the City of Dania Beach will maintain land development regulations and zoning regulations to implement the City's Comprehensive Plan; and

WHEREAS, the City Commission of the City of Dania Beach ("City Commission") finds it periodically necessary to amend its Code of Ordinances and Land Development Code ("Code") in order to update regulations and procedures to implement municipal goals and objectives; and

WHEREAS, City staff recommends approval of the proposed changes; and

WHEREAS, the Planning and Zoning Board, sitting as the City's Local Planning Agency, has reviewed this Ordinance, and has determined that it is consistent with the City's Comprehensive Plan; and

WHEREAS, pursuant to Section 166.041 (c)(2), Florida Statutes, notice has been given by publication in a paper of general circulation in the City, notifying the public of this proposed Ordinance and of the time and dates of the public hearings; and

WHEREAS, two (2) public hearings were held before the City Commission pursuant to the published notice described above; and

WHEREAS, the City Commission finds that adoption of this Ordinance through its police powers will protect the public health, safety, and welfare of the residents of the City, and furthers the purpose, goals, objectives, and policies of the City's Comprehensive Plan.

NOW THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the preceding "Whereas" clauses are ratified and incorporated as a record of the legislative intent of this Ordinance.

Section 2. That Part 1 "Use Regulations," Article 100 "General Use Regulations Applying to All Zoning Districts" of the City of Dania Beach Land Development Code is amended to read as follows:

ARTICLE 100. – GENERAL USE REGULATIONS APPLYING TO ALL ZONING DISTRICTS

Sec. 100-20. – How to use Part I of this code.

(B) *Commercial and mixed-use districts*

(3) The permitted uses within the Planned Mixed-Use District (PMUD) and Planned Small Lot Mixed-Use District (PMUD-SL) are subject to density and intensity limitations established by the city's comprehensive plan for the Dania Beach Regional Activity Center (RAC). All permitted, conditional, special exception, restricted or prohibited uses within the PMUD and PMUD-SL shall be identified and established pursuant to the approved PMUD or PMUD-SL Development Design Guidelines (DDG) consistent with the Dania Beach Regional Activity Center (RAC) and articles 340 and 350 of this chapter. The general use regulations of part I shall

apply to the PMUD and PMUD-SL only as specified in article 340 or 350, respectively, and in the approved PMUD or PMUD-SL DDG.

****

Sec. 100-60. Establishment of zoning districts.

The restrictions and controls intended to regulate development in each district are uniform for each class or kind of categorical delineation or distinction. For the purposes of protecting, promoting and improving the public health, safety and the general welfare of the citizens and residents, the city is divided into the following districts:

District map designation	Full district title	Intent and purpose of district
(B) Mixed-use zoning districts		
PMUD-SL	PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT	Encourages an integrated approach to redevelopment within the Dania Beach Regional Activity Center (RAC) encompassing a mix of uses at an intensity and density consistent with the proximity to regional roadways, the airport and seaport. This district is intended for small-scale mixed-use development in close proximity to other mixed-use development, mobility hubs, and arterial roadways.

****

Section 3. That Part 1 "Use Regulations," Article 110 "Use Regulations For Commercial And Mixed-Use Districts" of the City of Dania Beach Land Development Code is amended to read as follows:

ARTICLE 110. USE REGULATIONS FOR COMMERCIAL AND MIXED-USE DISTRICTS

Sec.110-10. - Applicability.

The detailed use regulations of this article do not apply within the CRA form-based districts, Planned Small Lot Mixed-Use Development District (PMUD-SL), or Planned Mixed Use Development District (PMUD) of part 3 of this code unless otherwise provided.

Sec. 110-20. - List of permitted, special exception and prohibited uses.

Included in the table below are permitted, special exception and prohibited uses within commercial districts, the Residential Office (RO) District, the Marine District, and generalized permitted and special exception uses within the mixed-use CRA form-based districts. Permitted and special exception uses shown in this table for the CRA form-based districts are not allowed in all areas of a district; therefore, the more detailed regulations of article 302 must be consulted to determine whether a particular use is permitted in any given location. Article 302 shall take precedence over this table. Unless otherwise provided, this table shall not apply to uses in the Planned Mixed Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL). All permitted, conditional, special exception, restricted or prohibited uses within the PMUD or PMUD-SL shall be identified and established pursuant to the approved PMUD or PMUD-SL Development Design Guidelines (DDG) consistent with the Dania Beach Regional Activity Center (RAC) and Articles 340 and 350 of this chapter.

****

Sec. 110-50. Proximity of alcoholic beverage establishments to other establishments and uses.

(A) [Applicability.] The distance separation requirements of this section shall not apply to:

(1) The sale of beer or wine or both for consumption off-premises; and

(2) Restaurants and cafes (including outdoor or open-air cafes specifically approved by the city commission) serving beer, wine, and liquor, for consumption on the premises only,

that are located within the Community Redevelopment Area form-based code districts; and

(3) Vendors operating in compliance with Design Development Guidelines (DDG) approved for property zoned Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL).

****

Section 4. That Part 2 "Site Development Regulations," Article 200 "User Guide for Part 2 of the Code" of the City of Dania Beach Land Development Code is amended to read as follows:

ARTICLE 200. USER GUIDE FOR PART 2 OF THE CODE

Sec. 200-40. - How part 2 of this code relates to the CRA form-based and PMUD regulations.

(B) Unless otherwise provided, site development regulations for the Planned Mixed Use Development District (PMUD) are specified within Article 340 of this chapter and within the approved Development Design Guidelines (DDG). Similarly, site development regulation for the Planned Small Lot Mixed-Use Development District (PMUD-SL) are specific within Article 350 of this chapter and within the approved Development Design Guidelines (DDG). However, the sections of part 2 that specifically govern airport safety, wildlife and environmentally sensitive lands shall apply to the PMUD and PMUD-SL Districts.

****

Section 5. That Part 3 "Special Zoning Districts," Subpart 6, Article 350 "Planned Small Lot Mixed-Use Development District (PMUD-SL)" of the City of Dania Beach Land Development Code is established and created to read as follows:

PART 3. – SPECIAL ZONING DISTRICTS

Part 3 addresses the special zoning districts created by the city. Each of the subparts is devoted to a separate special zoning district, as follows:

Subpart 1: Community Redevelopment Area (CRA) Form-Based Zoning Districts

Subpart 2: Hotel Overlay District

Subpart 3: Design District Overlay

Subpart 4: Port Everglades Development District (PEDD)

Subpart 5: Planned Mixed-Use Development District (PMUD)

Subpart 6: Planned Small Lot Mixed-Use Development District (PMUD-SL)

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ARTICLE 350. – PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT (PMUD-SL)

Sec. 350-10. - Purpose.

(A) The Planned Small Lot Mixed-Use Development zoning district (PMUD-SL) is intended to encourage and facilitate quality development and redevelopment within the Dania Beach Regional Activity Center (RAC) by providing flexibility for development accommodating a functional mix of uses in a complementary and integrated manner. The increased density and mix of uses is desirable to create a compact work, live, shop and leisure environment that reduces transportation needs by combining uses and provides an attractive destination for tourists and local citizens. Increased density and intensity of use is appropriate for certain small parcels of land with access to major roads and within close proximity to airports and cruise ship facilities.

(B) The adopted PMUD-SL Development Design Guidelines (DDG) is intended to regulate development within the PMUD-SL in much the same manner as the city's Land Development Code controls development in other zoning districts.

(C) Where this article 350 and an approved PMUD-SL DDG fail to address any matter regulated by this chapter, development within a PMUD-SL shall be governed by those regulations of this chapter.

Sec. 350-20. - Uses permitted.

The PMUD-SL may only be utilized within the Dania Beach Regional Activity Center (RAC). Generalized permitted uses are those set forth in the Dania Beach RAC which include residential, hotel, commercial, recreation, office and employment center. All permitted, conditional, special exception, restricted or prohibited uses within the PMUD-SL shall be identified and established pursuant to the approved PMUD-SL Development Design Guidelines (DDG) consistent with the Dania Beach Regional Activity Center (RAC) and article 350 of this chapter. A functional mix of uses should be provided and may be horizontally and vertically mixed within a building(s) as well as within the PMUD-SL as regulated by the DDG.

Sec. 350-30. - General development standards.

(A) *Minimum size.* The minimum size for a PMUD-SL shall be ten (10) acres of contiguous or adjacent land. For the purposes of this section, contiguous is defined as directly abutting or separated only by street right-of-way.

(B) *Density and intensity.* The density and intensity of land uses within a PMUD-SL shall be consistent with the Dania Beach Regional Activity Center (RAC) provisions set forth in the Future Land Use Element of the city's Comprehensive Plan. The maximum permissible

residential densities and square footages of non-residential uses within a PMUD-SL shall be established in the PMUD-SL DDG approved by the city commission. No building permit may be issued for development of property within a PMUD-SL except in compliance with the density and intensity limits of the PMUD-SL DDG.

(C) *Public access.* Each permitted use shall have access to a public street either directly or indirectly via an approach, private road, or other area dedicated to the public or private use or common easement guaranteeing access. The city shall be allowed access on privately owned roadways, easements and common open space to ensure the police and fire protection of the area, to meet emergency needs, to conduct city services, and to generally ensure the health and safety of the residents.

(D) *Maximum height.* The maximum height for a building shall be established in the PMUD-SL DDG approved by the city commission. The other requirements of article 220, "Supplemental Building and Structure Height Regulations (Including Lowest Finished Floor); Rooftop Regulations", shall apply unless otherwise specified in the Development Design Guidelines (DDG).

(E) *Minimum lot size or width.* No minimum lot size or width applies within a PMUD-SL, except as specified by the approved Development Design Guidelines (DDG).

(F) *Minimum setbacks.* All required setbacks within a PMUD-SL shall be as specified by the approved Development Design Guidelines (DDG). Where the rear façade of a building is oriented toward the adjacent public road, a deeper setback which includes a landscape buffer shall be provided, as specified in the approved Development Design Guidelines (DDG).

(G) *Minimum distance between structures.* Minimum distance between structures within a PMUD-SL shall be as specified in the approved Development Design Guidelines (DDG).

(H) *Minimum Floor Areas for dwelling and lodging units..* The standards and requirements of article 230 "Special Floor Area, Building Dimension and Building Size," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(I) *Offstreet loading.* The requirements of article 270 "Off-street Loading Requirements," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(J) *Outdoor lighting.* The requirements of article 280 "Outdoor Lighting Standards," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(K) *Landscaping.* The requirements of article 275 "Landscaping Requirements," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(L) *Walls, fences and hedges.* The requirements of article 235 "Walls, Fences and Hedges," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(M) *Signage.* The requirements of article 505 "Sign Regulations," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(N) *Roadways.* Internal private roads with access to public roads are permitted provided they are constructed to the same generally accepted engineering standards as public roads and provisions for maintenance are stipulated in the Development Design Guidelines.

(O) *Pedestrian circulation and connectivity.* The Design Development Guidelines (DDG) shall provide a continuous and connected pedestrian circulation system throughout the PMUD-SL for all buildings and uses, parking, transit, if applicable, and common areas with safe convenient connection to off-site public pedestrian ways and sidewalks. Vehicular and pedestrian cross-access will be identified within the approved DDG.

(P) *Multi-modal transportation.* The PMUD-SL shall foster the use of alternative modes of transportation, which will include pedestrian, bicycle, and transit, through measures which may include the mix and intensity of uses, building placement, utilization of green practices, transit amenities, inclusion of bus bays or transit hub, bike lanes and posting of transit route information. All applicable aspects of multi-modal transportation and mass transit will be identified within the approved DDG.

(Q) *Common areas.* The PMUD-SL should provide open space areas if applicable, such as public plazas, passive pocket parks, public art or recreational amenities that are appropriate for the proposed uses and are accessible to residents, tenants and patrons of the PMUD-SL and the general public. A contribution shall be made to the City in the amount of 0.5% of the value of construction up to a maximum contribution of $150,000, or as superseded by City Ordinance, for the funding, selection, creation, and maintenance of public art for the City.

(R) *Site plan approval.* Unless otherwise provided, site development shall comply with PMUD-SL regulations established pursuant to article 350 of this chapter and in accordance with the approved Development Design Guidelines (DDG). Where this article 350 and an approved PMUD-SL DDG fail to address any matter regulated by this chapter, a site plan within a PMUD-SL shall be governed by those regulations of Chapter 28, Part 6.

Sec. 350-40. - Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Requirements.

(A) *Master Development Plan (MDP) required for Planned Small Lot Mixed-Use Development District (PMUD-SL) zoning.* In addition to the standard rezoning application requirements, any proposed rezoning to the PMUD-SL district shall include a Master Development Plan (MDP) graphically depicting, at a minimum, the general location of land uses in building areas, building types, landscaped areas, vehicular use areas, access points from roads and waterways, street network and street types, and pedestrian and multimodal systems as applicable.

(B) *Development Design Guidelines (DDG) required for Planned Small Lot Mixed-Use Development District (PMUD-SL) zoning.* The City Commission shall review and approve DDG in connection with the review and approval of a final site plan. No building permit for a structure or building may be issued pursuant to PMUD-SL zoning except in conformance with City Commission approval of Development Design Guidelines (DDG).

(C) *Required information.* Any proposed DDG shall include the following:

(1) Permitted uses, which may include accessory uses, prohibited uses, use restrictions, conditional uses, special exception uses, and a permitted use trade-off matrix;

(2) Maximum (and minimum, if any) nonresidential square footage permitted;

(3) Maximum (and minimum, if any) number of dwelling units permitted;

(4) Illustrative graphics identifying circulation elements, which will include transit, vehicular, pedestrian and bicycle components, as applicable;

(5) Maximum height of all proposed structures;

(6) Standards specific to the PMUD-SL which differ from those in the city Land Development Code (LDC), which shall include:

(a) Minimum building setback standards;

(b) Building separation requirements;

(c) Guidelines for all structures which address design elements, architectural styles, acceptable and prohibited materials, and massing;

(d) Guidelines for residential units, including minimum habitable floor area, building design standards, and massing;

(e) Guidelines to ensure compatibility between residential and non-residential uses;

(f) Landscape standards for perimeter/common landscape areas;

(g) Guidelines for common open and public space areas and provisions for public art, as applicable;

(h) Applicable green design practices; and

(i) Other standards, guidelines or criteria applying to the PMUD-SL.

(7) Utility provider and conceptual discussion of utility service;

(8) Additional relevant information as reasonably requested by the Director of Community Development.

(C) *Conformance with Development Design Guidelines (DDG).* After rezoning to the Planned Small Lot Mixed Use Development District (PMUD-SL), no building permit for a structure or building shall be issued by the city and no development shall commence unless in conformity with the approved Development Design Guidelines (DDG) and an approved final site plan, unless a change or deviation is approved by the City of Dania Beach as provided in section 350-40(D).

(1) No building permit for a building or structure shall be issued for a portion of a PMUD-SL until a final site plan for that portion of the PMUD-SL has been approved. Subsequent to the approval of the DDG and any subsequent final site plan, all development within a PMUD-SL shall be controlled by the applicable final approved site plan. Multiple site plans may exist within a PMUD-SL. The lack of a final approved site plan for a portion of the PMUD-SL shall not prohibit the issuance of building permits or the commencement of development on portions of the PMUD-SL with a final approved site plan.

(D) *Modifications and Deviations to Development Design Guidelines (DDG) and site plans.* Any proposed change, modification or amendment to the approved DDG or site plan shall

be reviewed pursuant to the criteria and standards established within section 635-80 "Site plan modifications or deviations" of this code.

(1) *PMUD-SL Boundary Changes.* Any proposed amendment of the approved PMUD-SL which constitutes a change in the boundary of the approved PMUD-SL shall be reviewed utilizing the same procedures and approved in the same manner as the approved PMUD-SL.

(E) *Vesting of RAC land use allocations.* The approved DDG and site plan will determine the quantity and timing of RAC land use allocations. The DDG shall also establish a date after which unused square footage or residential units allocated from the RAC shall be returned unless said unused allocations have already been voluntarily returned to the city by virtue of affidavit from the officially designated agent for the PMUD-SL, or a deadline extension is granted by amendment to the PMUD-SL by the city commission.

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Section 6. That Part 3 "Special Zoning Districts," Subpart 1 "Community Redevelopment Area (CRA) Form-Based Zoning Districts" of the City of Dania Beach Land Development Code is amended to read as follows:

SUBPART 1. – COMMUNITY REDEVELOPMENT AREA (CRA) FORM-BASED ZONING DISTRICTS

ARTICLE 300. - HOW TO USE

Sec. 300-10. - The CRA includes six form-based districts.

The Community Redevelopment Area (CRA) is divided into several zoning districts. Six (6) of those districts are form-based districts that are unique to the CRA. Article 300 shall not apply to the Planned Mixed-Use Development District (PMUD) established pursuant to Article 340, subpart 5 of part 3 of this chapter or the Planned Small Lot Mixed-Use Development District (PMUD-SL) establish pursuant to Article 350, subpart 6 of part 3 of this chapter. Each form-based zoning district has a set of regulations that apply to it, called "district development standards" in article 303. The district standards include:

****

Section 7. That Part 4 "Subdivisions and Off-Site Regulations," of the City of Dania Beach Land Development Code is amended to read as follows:

ARTICLE 400. – STREET DEDICATIONS AND DESIGN STANDARDS

Sec. 400-30. – Geometric street design standards.

Streets and sidewalks shall be designed in compliance with the standards of A Policy on Geometric Design of Highways and Streets, most recent edition, by the American Association of State Highway and Transportation Officials, unless otherwise specified in the approved planned mixed-use development district (PMUD) or planned small lot mixed-use development district (PMUD-SL) Development Design Guidelines (DDG).

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Sec. 400-50. – Access standards for development.

Driveway spacing, width, number, and geometric standards shall be designed and constructed in compliance with the standards of A Policy on Geometric Design of Highways and Streets, most recent edition, by the American Association of State Highway and Transportation Officials, unless otherwise specified in the approved planned mixed-use development district (PMUD) or planned small lot mixed-use development district (PMUD-SL) Development Design Guidelines (DDG).

Sec. 400-60. – Street Drainage.

Drainage facilities shall be designed and constructed in compliance with the standards of A Policy on Geometric Design of Highways and Streets, most recent edition, by the American Association of State Highway and Transportation Officials, unless otherwise specified in the approved planned mixed-use development district (PMUD) or planned small lot mixed-use development district (PMUD-SL) Development Design Guidelines (DDG).

****

ARTICLE 405. – UTILITIES IN NEW SUBDIVISIONS

Sec. 405-10. – Water and sewer infrastructure.

(B) Easements shall be provided for the installation of underground utilities or relocating existing facilities in conformance with such size and location of easements as may be determined by the director of public services to be compatible with the requirements of all utility companies involved with respect to a particular utility service, unless otherwise specified in the approved

Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Design Guidelines (DDG).

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ARTICLE 410. – DRAINAGE FACILITIES

(B) All subdivisions and development of land shall provide on-site and street drainage facilities constructed to comply with public services department standards, unless otherwise specified in the approved Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Design Guidelines (DDG).

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ARTICLE 420. – APPROVAL, GUARANTEE AND CONSTRUCTION OF OFF-SITE IMPROVEMENTS

Sec. 420-20. – Construction drawings.

(A) ***Profiles to be submitted.*** Every person proposing to subdivide property shall furnish, along with each subdivision plat, a plan showing profiles of all streets and grade line of paving to be constructed, together with all culverts or other existing or proposed drainage structures, unless an alternative timeframe for submittal is approved as part of the Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Design Guidelines (DDG). All elevations shown must be referred to United States Coast and Geodetic Survey mean sea level.

(B) ***Paved streets.*** Every person proposing to subdivide property shall pave all streets contained in the subdivision or shown on the subdivision plat and all such paving shall strictly conform to the specifications of the city, unless otherwise specified in the approved PMUD or PMUD-SL Development Design Guidelines (DDG). Due notice of intention to begin construction shall be filed with the public services director in order that arrangements for inspections may be made. The public services director shall furnish paving specifications upon request.

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Section 8. That Part 5 "Signage and Design Regulations," of the City of Dania Beach Land Development Code is amended to read as follows:

PART 5 SIGNAGE AND DESIGN GUIDELINES

ARTICLE 500. – General Provisions; How To Use

Sec. 500-20. – Applicability

(A) The signage regulations of article 505 apply city-wide, except that signage within the Port Everglades Development District (PEDD) is regulated within article 320. Signage for PEDD is regulated separately from other areas of the city because the PEDD is the subject of an interlocal agreement between Hollywood, Dania Beach and Broward County that contains special signage provisions. Any alternative signage regulations established in the approved Development Design Guidelines (DDG) for properties zoned Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) supersede the signage regulations in article 505 of this chapter, Sign Regulations, except that signs prohibited by article 505 shall remain prohibited.

(B) The design standards in part 5 of this chapter apply to different areas and uses within the city, as indicated by the title of each article. All design regulations are found within part 5. Any alternative design standards established in the approved Development Design Guidelines (DDG) for properties zoned PMUD or PMUD-SL supersede the design standards in part 5 of this chapter, "Signage and Design Regulations".

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ARTICLE 505. – SIGN REGULATIONS

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Sec. 505-130. – Special signage regulations for certain locations and uses.

(A) *Applicability.* This section specifies signage regulations by type of use or location and supersedes all conflicting requirements of this article.

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(I) *PMUD-SL.* Any specific signage regulations established by the approved Development Design Guidelines (DDG) for properties zoned PMUD-SL supersede all conflicting requirements of article 505, Sign Regulations, except that signs prohibited by article 505 shall remain prohibited.

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ARTICLE 510. – PRINCIPAL ARTERIAL COMMERCIAL DESIGN STANDARDS

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Sec. 510-20. – Applicability.

(A) This article shall apply to all commercially zoned properties that have frontage on any of the following roadways within the City of Dania Beach:

****

(E) Any design standards established pursuant to the approved Development Design Guidelines (DDG) for properties zoned planned mixed-use development district (PMUD) <u>or Planned Small Lot Mixed-Use Development District (PMUD-SL)</u> shall supersede the standards of article 510 Principal Arterial Commercial Design Standards.

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ARTICLE 515. – GASOLINE SERVICE STATIONS

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Sec. 515-20. – Applicability.

(B) Modifications from the requirements of this article can be approved by the city commission as a variance pursuant to article 625 or as a component of the approved Development Design Guidelines (DDG) for a PMUD <u>or PMUD-SL</u>.

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ARTICLE 520. – LARGE RETAIL ESTABLISHMENT STANDARDS

Sec. 520-10. – Applicability.

This article applies to the new construction of large retail establishments, as defined in section 725-30, within Dania Beach, which may include both "big box" stores and shopping centers, with the exception of such establishments located on property zoned planned mixed-use development district (PMUD) <u>or Planned Small Lot Mixed-Use Development District (PMUD-SL)</u> with approved Development Design Guidelines (DDG) containing alternative standards. These requirements shall be in addition to requirements of articles 510 and 525.

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ARTICLE 530. – PARKING STRUCTURE DESIGN

As referenced in section 500-20(B), design standards established in the approved Development Design Guidelines (DDG) for properties zoned planned mixed-use development district (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) supersede the design standards of article 530, Parking Structure Design.

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Section 9. That Part 6 "Development Review Procedures And Requirements," of the City of Dania Beach Land Development Code is amended to read as follows:

PART 6 DEVELOPMENT REVIEW PROCEDURES AND REQUIREMENTS

ARTICLE 600. – GENERAL PROVISIONS AND APPLICATION REQUIREMENTS

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Sec. 600-20. – Applicability.

The development review procedures and requirements set forth in this part shall apply to all applications for development orders required or authorized in this code for land within the City of Dania Beach with the exception of those located within an approved planned mixed-use development district (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) for which any alternative procedures and requirements established in section 340-40 or in the approved Development Design Guidelines (DDG) shall apply.

****

ARTICLE 635. – SITE PLANS

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Sec. 635-40. – Supplemental application requirements.

In addition to the general application requirements, the applicant shall provide the following materials in the quantity specified on the application form with the exception of site plans within an approved Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL), for which any alternative requirements established in the approved Development Design Guidelines (DDG) shall govern:

****

Sec. 635-50. – Site plan data requirements.

All site plans shall contain the following and any other information necessary to demonstrate compliance with all requirements of the code. Any alternative requirements established in the approved Development Design Guidelines (DDG) shall apply for site plans within a Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL). The community development director may waive particular submittal items upon a determination that such items are not applicable or not essential to a specific project.

****

Sec. 635-70. – Site plan processing.

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(E) *Planned Mixed-Use Development District (PMUD) and Planned Small Lot Mixed-Use Development District (PMUD-SL) site plans.* Site plans submitted for property zoned PMUD or PMUD-SL, whether for the entire site, individual portion(s), or in phases shall be reviewed for consistency with the approved Development Design Guidelines (DDG), including the master development plan.

(F) *Approval.* The director, planning and zoning board or city commission, as applicable, shall approve, approve with conditions or deny the proposed site plan based upon the standards for review contained in this code, with the exception of site plans within a Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) for which any alternative procedures and standards for review established in section 340-40(D), 350-40(D), or the approved Development Design Guidelines (DDG) shall govern. All decisions of the planning and zoning board and city commission shall be made following a public hearing that is noticed pursuant to article 610, and after considering public input and the staff findings.

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Section 10. That if any section, clause, sentence or phrase of this Ordinance is for any reason held invalid or unconstitutional by a court of competent jurisdiction, the holding shall not affect the validity of the remaining portions of this Ordinance.

Section 11. That all ordinances or parts of ordinances in conflict with the provisions of this Ordinance are repealed to such extent of the conflict.

Section 12. That this Ordinance shall be codified in accordance with the foregoing. It is the intention of the City Commission that the provisions of this Ordinance shall become and be made a part of the City of Dania Beach Code of Ordinances; and that the sections of this Ordinance may be renumbered or re-lettered and the word "ordinance" may be changed to "section", "article" or such other appropriate word or phrase in order to accomplish such intentions.

Section 13. That this Ordinance shall take full effect immediately upon its passage and adoption.

PASSED on first reading on September 23, 2019.

PASSED AND ADOPTED on second reading on October 7, 2019.

ATTEST:

Thomas Schneider

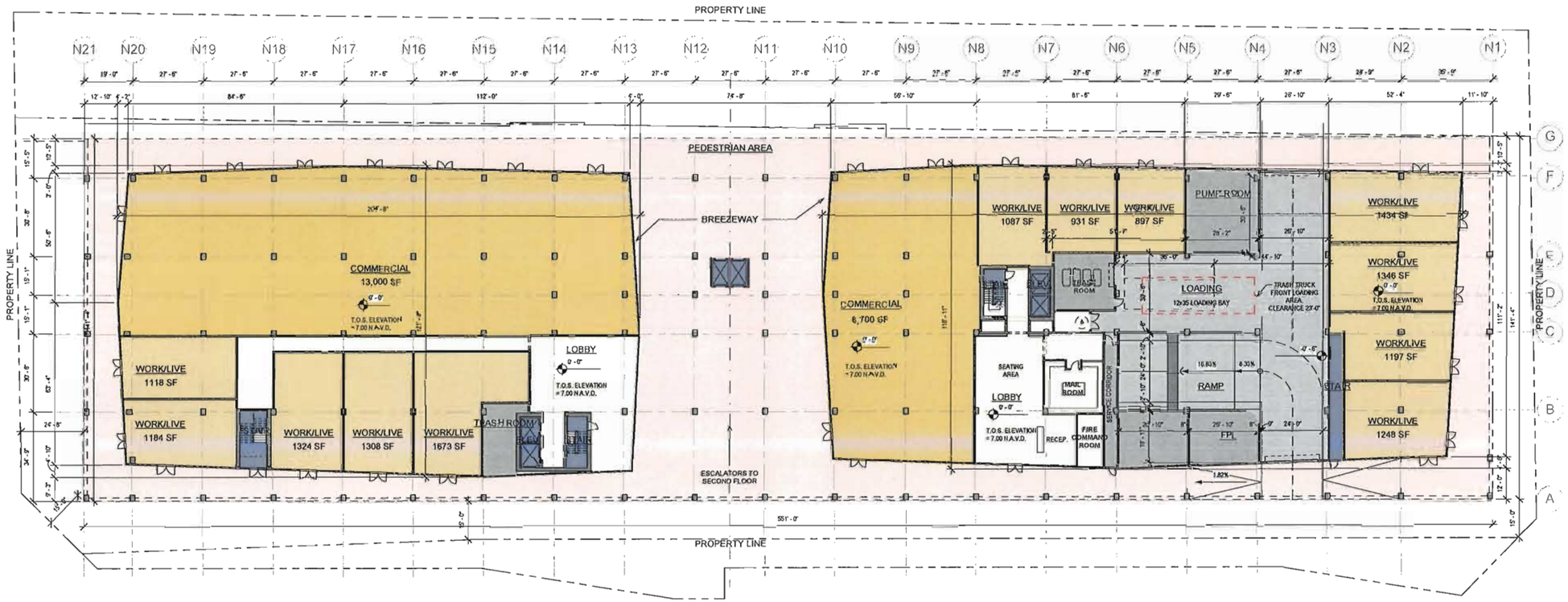
THOMAS SCHNEIDER, CMC
CITY CLERK

DANIA BEACH ESTABLISHED 1904

LORI LEWELLEN
MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY



COLOR LEGEND

- BOH
- LOBBY
- PARKING
- PEDESTRIAN AREA
- RETAIL
- VERTICAL CIRCULATION
- WORK/LIVE

GROUND FLOOR AREA SCHEDULE	
	PROVIDED
RETAIL AREA	19,700 SF
WORK/LIVE UNITS (2 STORY UNITS)	12 UNITS (28,747 SF)
TOTAL GROSS SF	51,601 SF

PARKING SCHEDULE		
	REQUIRED	PROVIDED
LOADING AREA	1	1

2 / A-3.00 0100 LEVEL - COMMERCIAL & W/L UNITS
1" = 20'-0"

0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

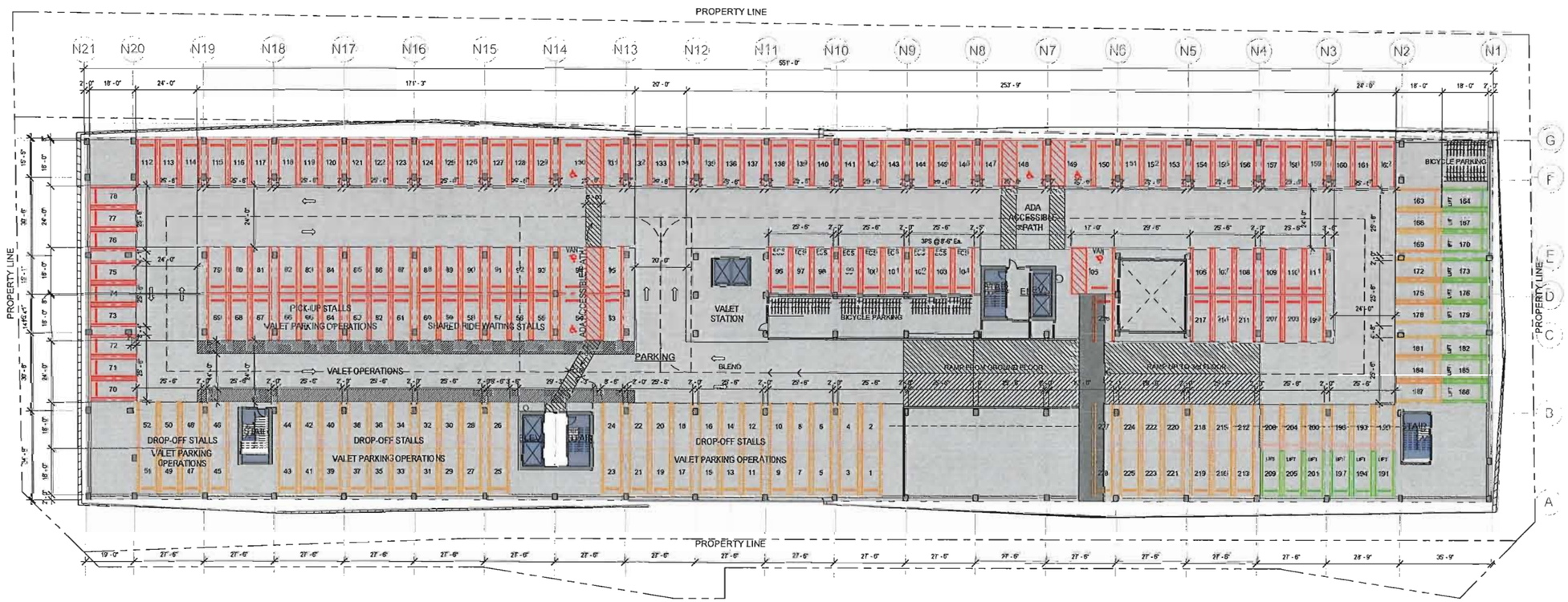
PATRICK BUSTEED
ARCHITECT
AR92001

90 WAVE

DANIA BEACH, FL

A-3.00

11-09-20



COLOR LEGEND

- PARKING
- VERTICAL CIRCULATION

0200 LEVEL AREA SCHEDULE	
	PROVIDED
PARKING AREA	76,281 SF
TOTAL GROSS SF	78,609 SF

PARKING SCHEDULE		
	REQUIRED	PROVIDED
RESIDENTIAL (380 UNITS X 1.30)	494	
NON-RESIDENTIAL 19700 SF OF RETAIL AREA (1 P.S. / 250SF)	79	
TOTAL	573	699
PARKING TYPE		
REGULAR PARKING		141
TANDEM PARKING		126
LIFT PARKING		432
TOTAL		699
BICYCLE STORAGE	REQUIRED	PROVIDED
5% OF REQ.RESIDENTIAL PARKING	24.70	90
10% OF REQ. COMMERCIAL PARKING	19.20	42
TOTAL	43.90	132

2 / A-3.01 0200 LEVEL - PARKING GARAGE
1" = 20'-0"

0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

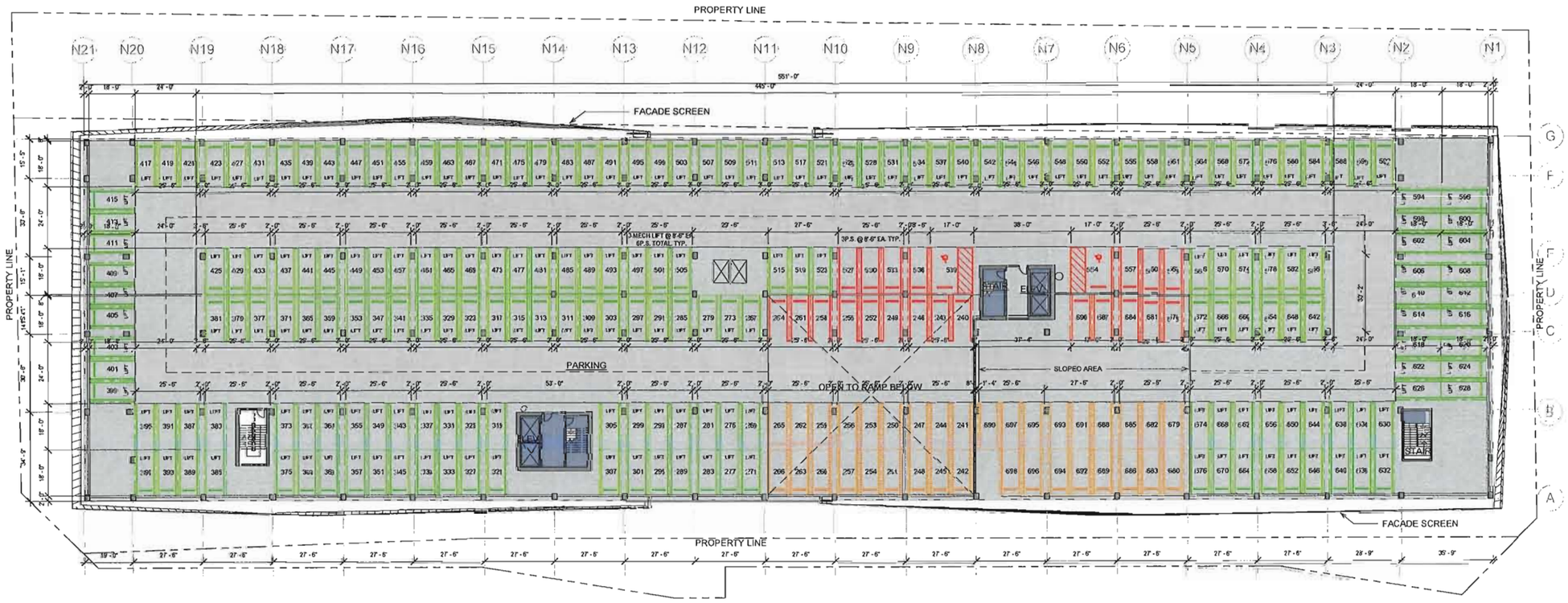
PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE

DANIA BEACH, FL

A-3.01

11-09-20



COLOR LEGEND

- PARKING
- VERTICAL CIRCULATION

0300 LEVEL AREA SCHEDULE	
	PROVIDED
PARKING AREA	76,752 SF
TOTAL GROSS SF	78,609 SF

PARKING SCHEDULE		
	REQUIRED	PROVIDED
RESIDENTIAL (380 UNITS X 1.30)	494	
NON-RESIDENTIAL 19700 SF OF RETAIL AREA (1 P.S. / 250SF)	79	
TOTAL	573	699
PARKING TYPE		
REGULAR PARKING		141
TANDEM PARKING		126
LIFT PARKING		432
TOTAL		699
BICYCLE STORAGE	REQUIRED	PROVIDED
5% OF REQ. RESIDENTIAL PARKING	24.70	90
10% OF REQ. COMMERCIAL PARKING	19.20	42
TOTAL	43.90	132

2 / A-3.02 0300 LEVEL - PARKING GARAGE
1" = 20'-0"

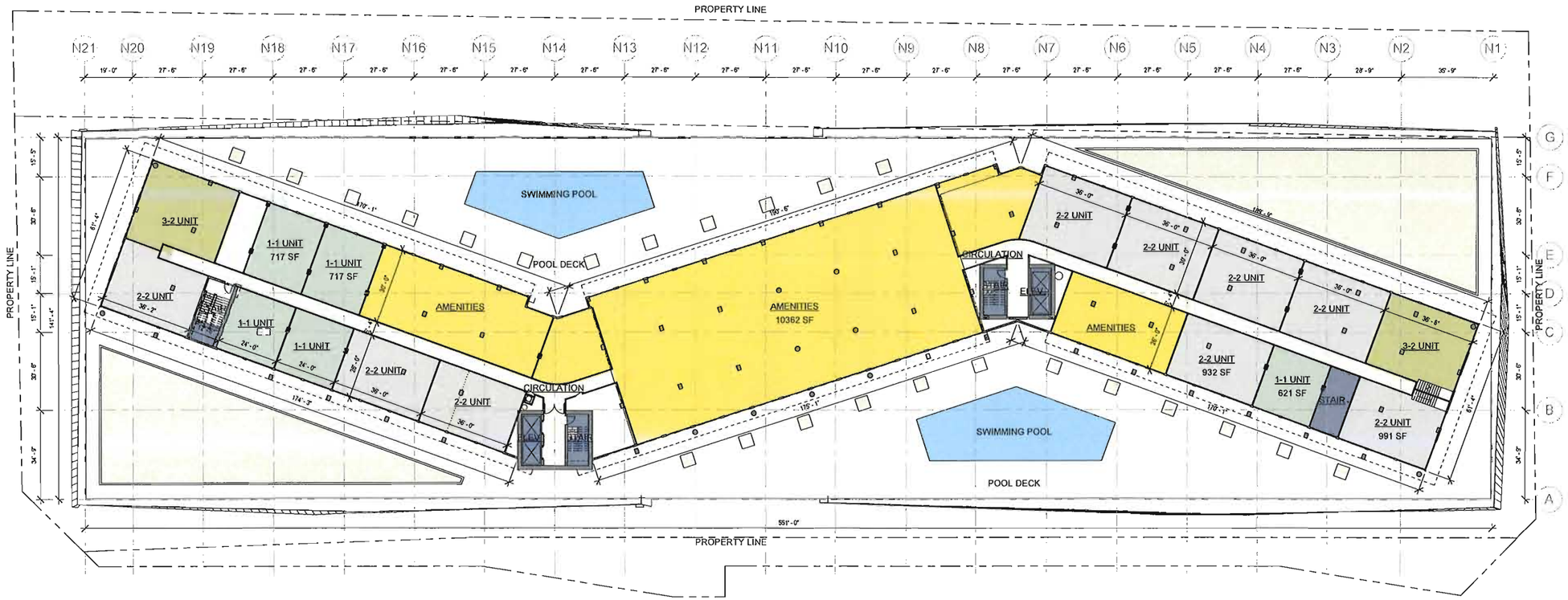
0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE
DANIA BEACH, FL

A-3.02
11-09-20



COLOR LEGEND

- 1-1 UNIT
- 2-2 UNIT
- 3-2 UNIT
- AMENITIES
- COMMON SPACE
- VERTICAL CIRCULATION

0-UNIT DISTRIBUTION SCHEDULE (0300 Series)	
Count	Name
114	1-1 UNIT
186	2-2 UNIT
46	3-2 UNIT
22	STUDIO
12	WORK/LIVE
380	

UNIT DISTRIBUTION SCHEDULE - 400 LEVEL...	
Count	Name
5	1-1 UNIT
9	2-2 UNIT
2	3-2 UNIT
16	

0400 LEVEL AREA SCHEDULE	
	PROVIDED
RESIDENTIAL AREA	14,680 SF
AMENITIES AREA (INDOOR)	7,557 SF
TOTAL GROSS SF	33,623 SF

2 / A-3.03 0400 LEVEL - RECREATIONAL LEVEL

1" = 20'-0"

0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

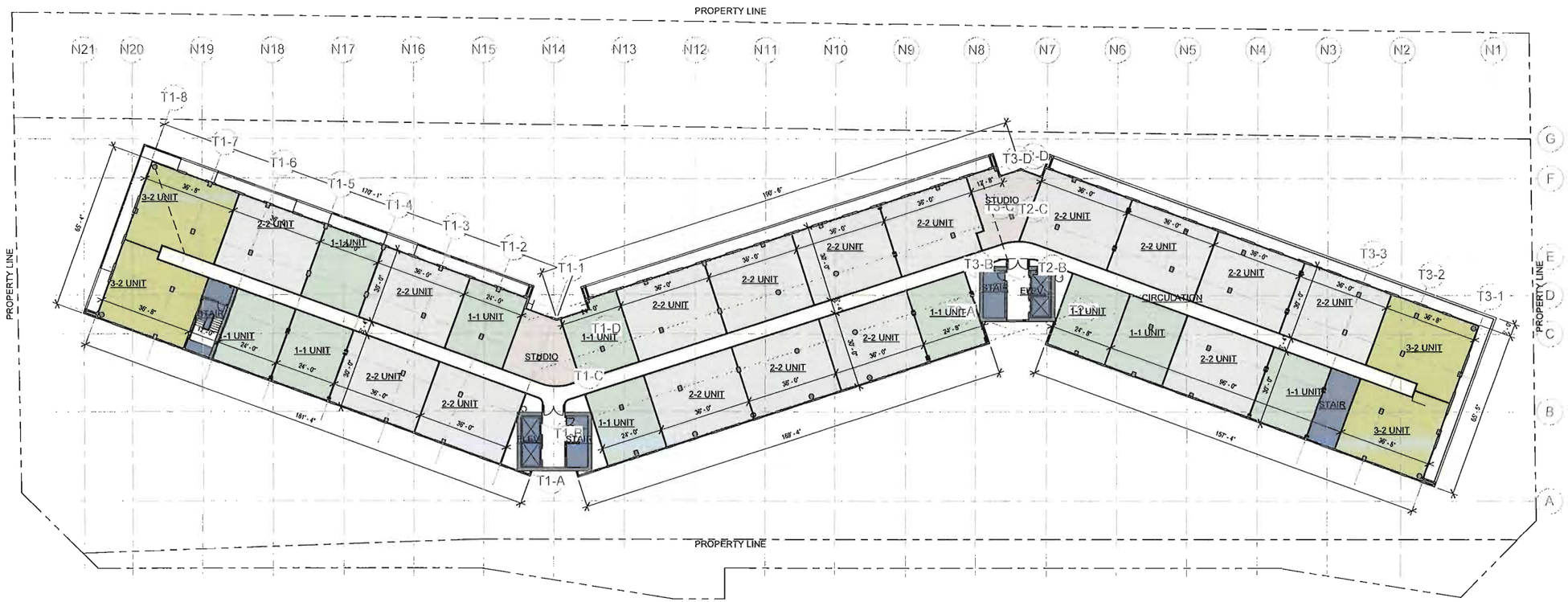
PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE

DANIA BEACH, FL

A-3.03

11-09-20



COLOR LEGEND

- 1-1 UNIT
- 2-2 UNIT
- 3-2 UNIT
- COMMON SPACE
- STUDIO
- VERTICAL CIRCULATION

0-UNIT DISTRIBUTION SCHEDULE (0300 Series)	
Count	Name
114	1-1 UNIT
186	2-2 UNIT
46	3-2 UNIT
22	STUDIO
12	WORK/LIVE
380	

UNIT DISTRIBUTION SCHEDULE - TYP. LEVEL...	
Count	Name
10	1-1 UNIT
16	2-2 UNIT
4	3-2 UNIT
2	STUDIO
32	

TYPICAL LEVEL AREA SCHEDULE	
	PROVIDED
RESIDENTIAL AREA	30,104 SF
TOTAL GROSS SF	35,537 SF

2 / A-3.04 TYP LEVEL (5th-15th) - RESIDENTIAL UNITS
1" = 20'-0"

0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

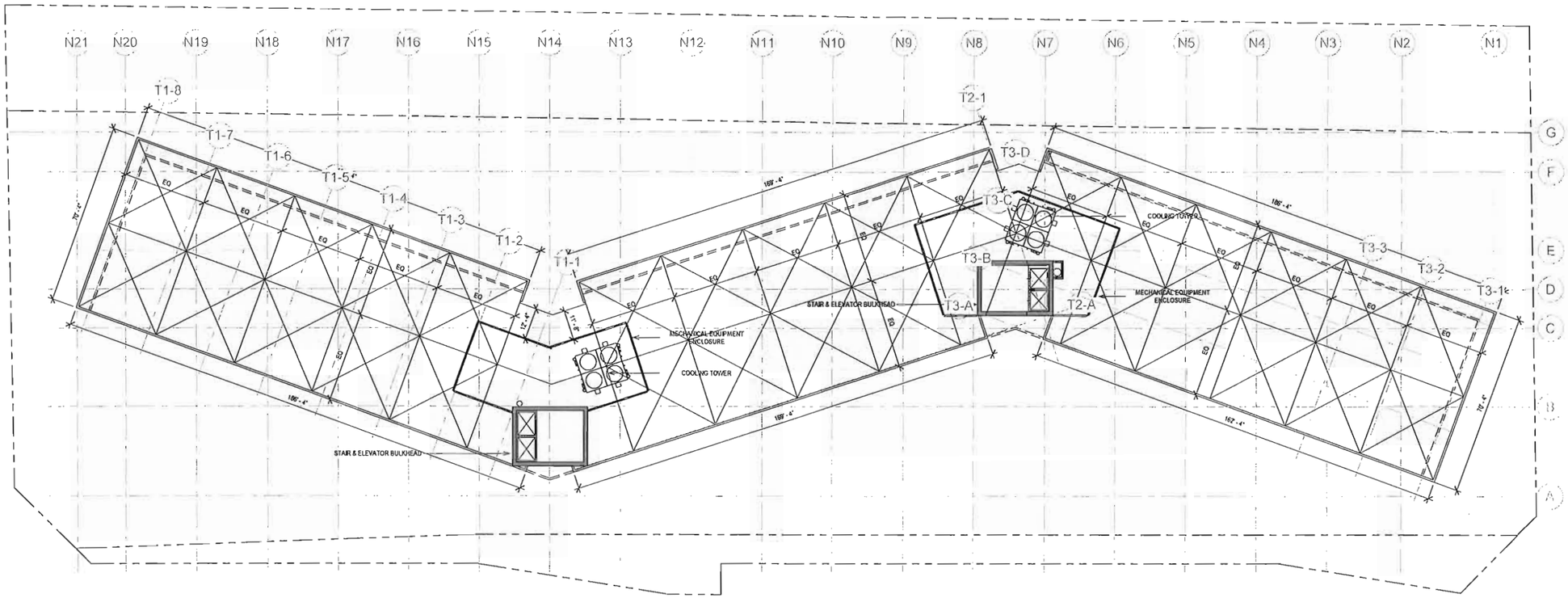
PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE

DANIA BEACH, FL

A-3.04

11-09-20



1 A-3.05 ROOF - NORTH PROPERTY
1" = 20'-0"

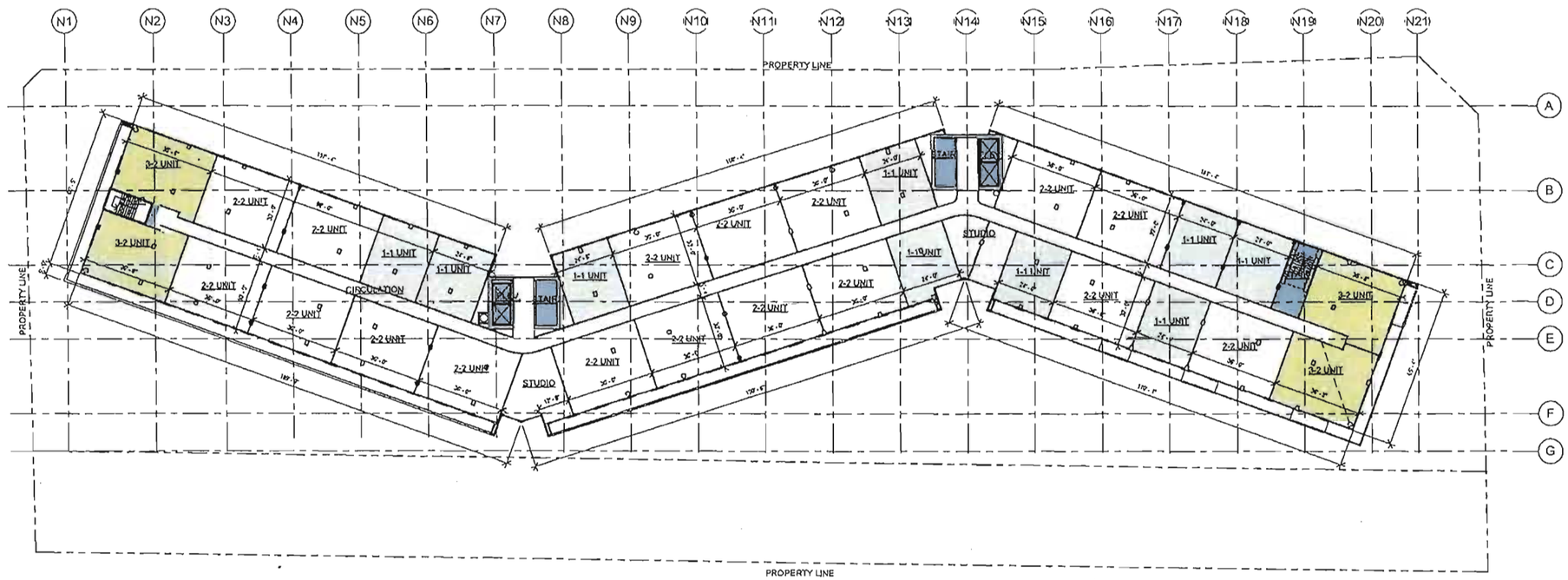
0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE
DANIA BEACH, FL

A-3.05
11-09-20



COLOR LEGEND

- 1-1 UNIT
- 2-2 UNIT
- 3-2 UNIT
- COMMON SPACE
- STUDIO
- VERTICAL CIRCULATION

D-UNIT DISTRIBUTION SCHEDULE (0300 Series)	
Count	Name
95	1-1 UNIT
185	2-2 UNIT
47	3-2 UNIT
20	STUDIO
29	WORK/LIVE
380	

UNIT DISTRIBUTION SCHEDULE - TYP. LEVEL	
Count	Name
9	1-1 UNIT
17	2-2 UNIT
4	3-2 UNIT
2	STUDIO
32	

TYPICAL LEVEL AREA SCHEDULE	
	PROVIDED
RESIDENTIAL AREA	30,308 SF
TOTAL GROSS SF	35,537 SF

2 / A-3.06 TYP LEVEL (7th-16th) - RESIDENTIAL UNITS
1" = 20'-0"

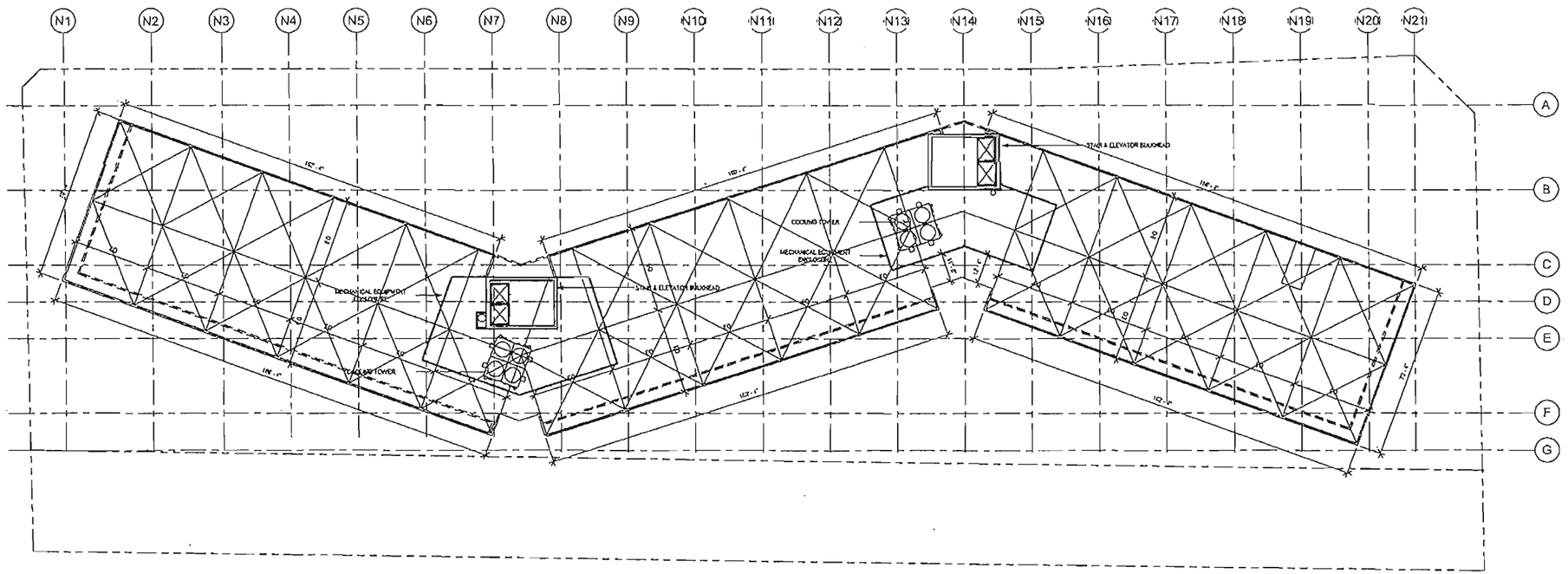
0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR02031

90 WAVE
DANIA BEACH, FL

A-3.06



1 A-3.07 ROOF - NORTH PROPERTY
1" = 20'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK PUSTEED
ARCHITECT
AR92061

90 WAVE
DANIA BEACH, FL

A-3.07

1 A-4.00 WEST ELEVATION
1" = 20'-0"

KEYNOTE LEGEND	
#	DESCRIPTION
01A	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #1.
01B	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #2.

KEYNOTE LEGEND	
#	DESCRIPTION
02	ALUMINUM WINDOW WALL ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
02C	ALUMINUM STOREFRONT ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
03	ALUMINUM GLASS DOOR/WINDOW ASSEMBLY W/KYNAR FIN. TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
04	ALUMINUM COMPOSITE MATERIAL BUILDING PANEL W/ KYNAR FINISH.

KEYNOTE LEGEND	
#	DESCRIPTION
05	TENSILE FACADE CLADDING. STICK BUILD ALUMINUM STRUCTURE WITH PREASSEMBLED & STRETCHED FABRIC PANELS.
11	ALUMINUM AND GLASS RAILING @ 42" A.F.F. W/ KYNAR FINISH.
12	SLIDING DOOR W/ KYNAR FINISH; TO MEET WIND LOAD REQUIREMENTS. FINISH COLOR TO BE SELECTED BY ARCHITECT.
15	ALUMINUM LOUVERS W/ KYNAR FINISH. SILVER ALUMINUM COLOR.
20	OVERHEAD COILING DOOR W/ HIGH PERFPRMANCE COATING.
21	WEATHERPROOF MECHANICAL LOUVER ASSEMBLY IN EXTRUDED ALUMINUM FRAME W/KYNAR FINISH.
22	BUILDING IDENTIFICATION SIGN.SIZE AS PRESCRIBED BY TH DEV DESIGN GUIDELINES.

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

STATE OF FLORIDA
PATRICK BUSTEED
LICENSED ARCHITECT

PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE
DANIA BEACH, FL

A-4.00
11-09-20

KEYNOTE LEGEND	
#	DESCRIPTION
01A	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #1.
01B	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #2.

KEYNOTE LEGEND	
#	DESCRIPTION
02C	ALUMINUM STOREFRONT ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
03	ALUMINUM GLASS DOOR/WINDOW ASSEMBLY W/KYNAR FIN. TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
04	ALUMINUM COMPOSITE MATERIAL BUILDING PANEL W/ KYNAR FINISH.
05	TENSILE FACADE CLADDING. STICK BUILD ALUMINUM STRUCTURE WITH PREASSEMBLED & STRETCHED FABRIC PANELS.

KEYNOTE LEGEND	
#	DESCRIPTION
11	ALUMINUM AND GLASS RAILING @ 42" A.F.F. W/ KYNAR FINISH.
15	ALUMINUM LOUVERS W/ KYNAR FINISH. SILVER ALUMINUM COLOR.
20	OVERHEAD COILING DOOR W/ HIGH PERFPRMANCE COATING.
21	WEATHERPROOF MECHANICAL LOUVER ASSEMBLY IN EXTRUDED ALUMINUM FRAME W/KYNAR FINISH.

1 / A-4.01 EAST ELEVATION
1" = 20'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE
DANIA BEACH, FL

A-4.01
11-09-20

KEYNOTE LEGEND	
#	DESCRIPTION
01A	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #1.
01B	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #2.

KEYNOTE LEGEND	
#	DESCRIPTION
02A	ALUMINUM WINDOW WALL ASSEMBLY WITH INTEGRAL SLAB EDGE COVER;W/KYNAR FINISH. TO MEET WIND LOAD REQUIREMENTS.
02C	ALUMINUM STOREFRONT ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
03	ALUMINUM GLASS DOOR/WINDOW ASSEMBLY W/KYNAR FIN. TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
04	ALUMINUM COMPOSITE MATERIAL BUILDING PANEL W/ KYNAR FINISH.

KEYNOTE LEGEND	
#	DESCRIPTION
05	TENSILE FACADE CLADDING. STICK BUILD ALUMINUM STRUCTURE WITH PREASSEMBLED & STRETCHED FABRIC PANELS.
11	ALUMINUM AND GLASS RAILING @ 42" A.F.F. W/ KYNAR FINISH.
22	BUILDING IDENTIFICATION SIGN.SIZE AS PRESCRIBED BY THE DEVELOPMENT DESIGN GUIDELINES.

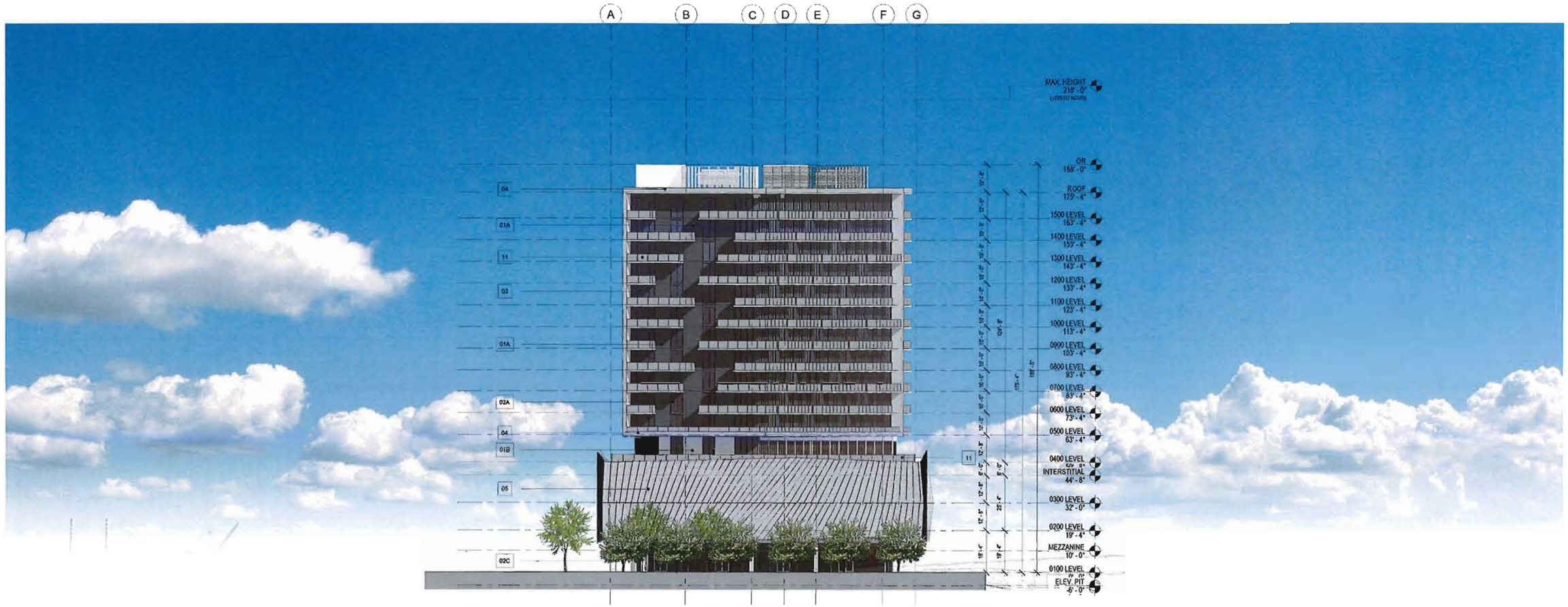
1 / A-4.02 NORTH ELEVATION
1" = 20'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE
DANIA BEACH, FL

A-4.02
11-09-20



KEYNOTE LEGEND	
#	DESCRIPTION
01A	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #1.
01B	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #2.

KEYNOTE LEGEND	
#	DESCRIPTION
02A	ALUMINUM WINDOW WALL ASSEMBLY WITH INTEGRAL SLAB EDGE COVER;W/KYNAR FINISH. TO MEET WIND LOAD REQUIREMENTS.
02C	ALUMINUM STOREFRONT ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
03	ALUMINUM GLASS DOOR/WINDOW ASSEMBLY W/KYNAR FIN. TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
04	ALUMINUM COMPOSITE MATERIAL BUILDING PANEL W/ KYNAR FINISH.

KEYNOTE LEGEND	
#	DESCRIPTION
05	TENSILE FACADE CLADDING. STICK BUILD ALUMINUM STRUCTURE WITH PREASSEMBLED & STRETCHED FABRIC PANELS.
11	ALUMINUM AND GLASS RAILING @ 42" A.F.F. W/ KYNAR FINISH.

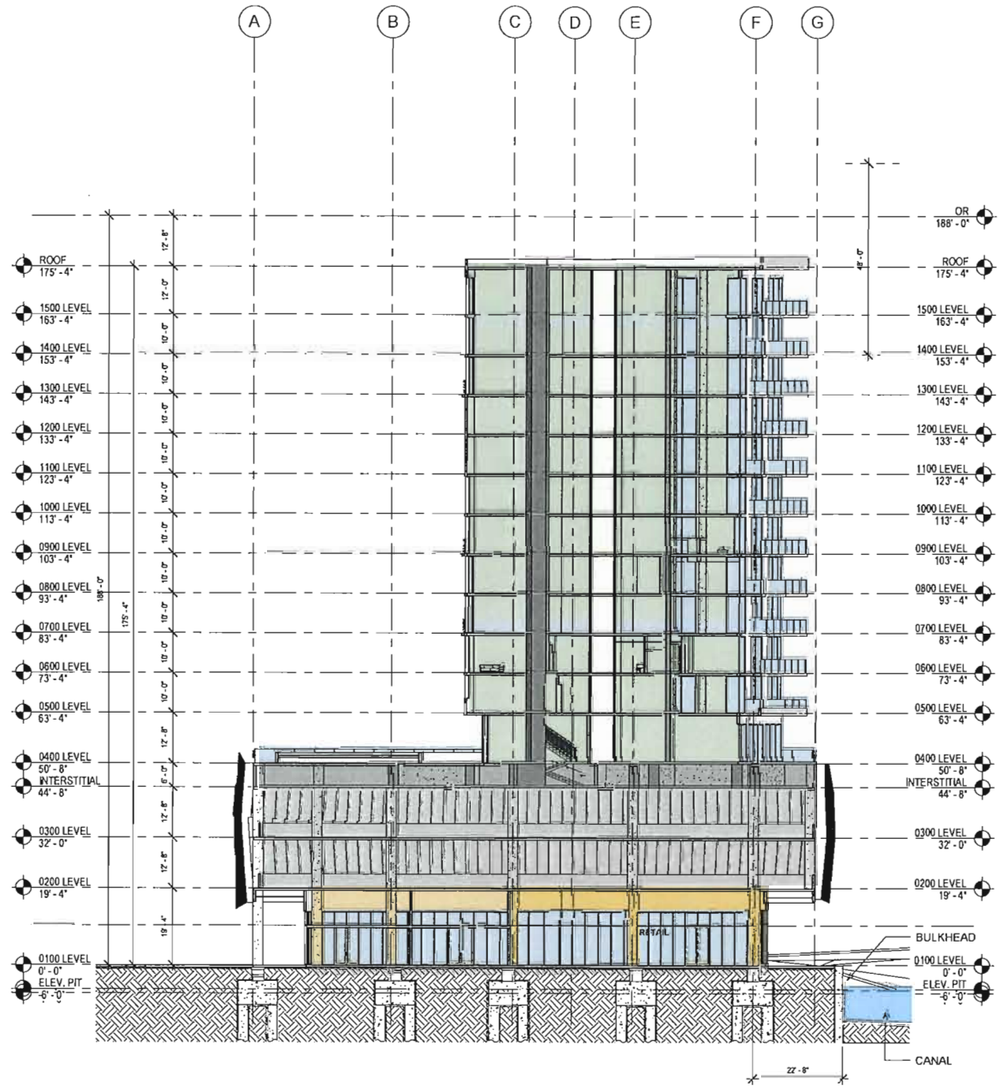
1 / A-4.03 SOUTH ELEVATION
1" = 20'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE
DANIA BEACH, FL

A-4.03
11-09-20



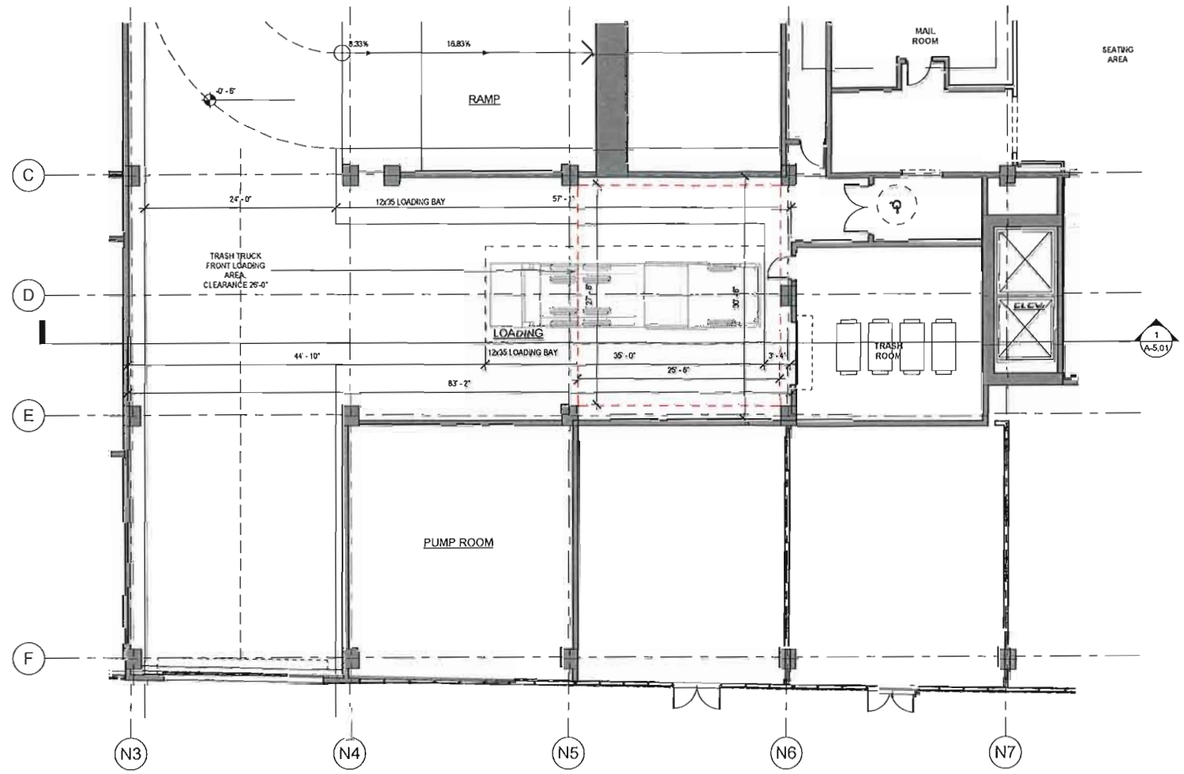
1 A-5.00 BUILDING CROSS SECTION
1/16" = 1'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

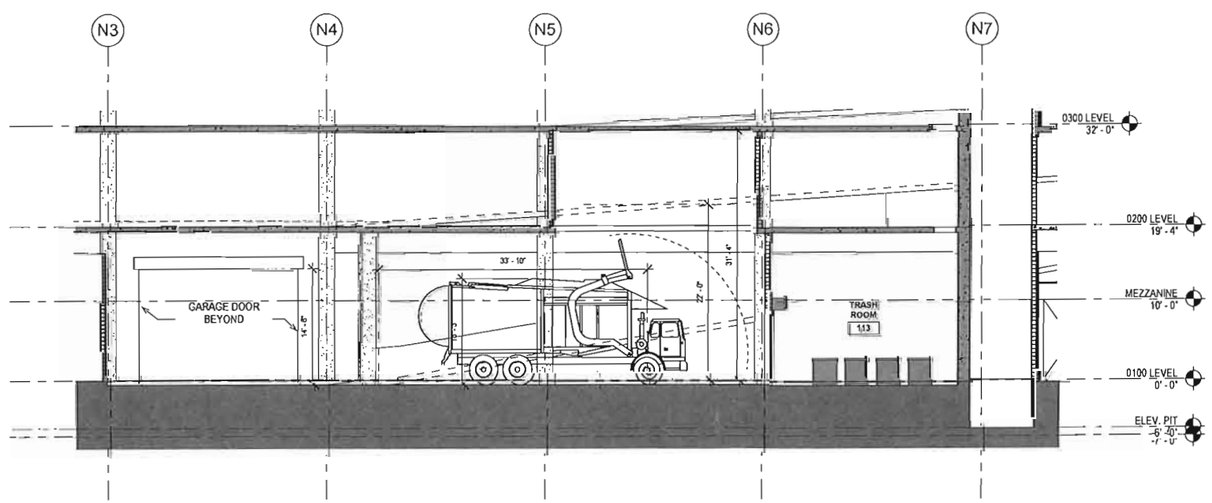
PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE
DANIA BEACH, FL

A-5.00
11-09-20



2 A-5.01 LOADING AREA FLOOR PLAN
1/8" = 1'-0"



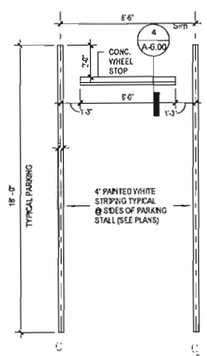
1 A-5.01 LOADING AREA SECTION
1/8" = 1'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

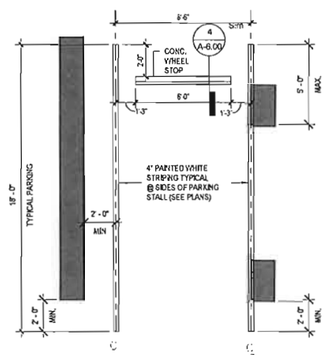
PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE
DANIA BEACH, FL

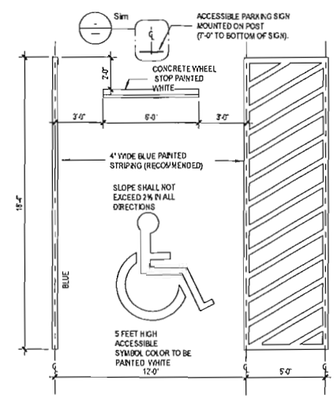
A-5.01
11-09-20



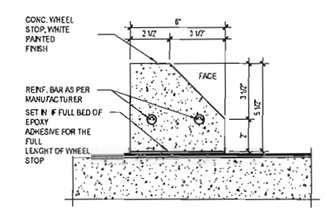
1 A-6.00 TYP. VALET PARKING STALL
1/4" = 1'-0"



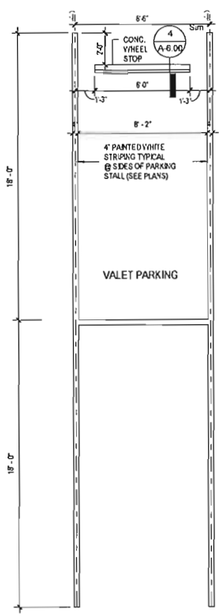
2 A-6.00 TYP. VALET PARKING STALL
1/4" = 1'-0"



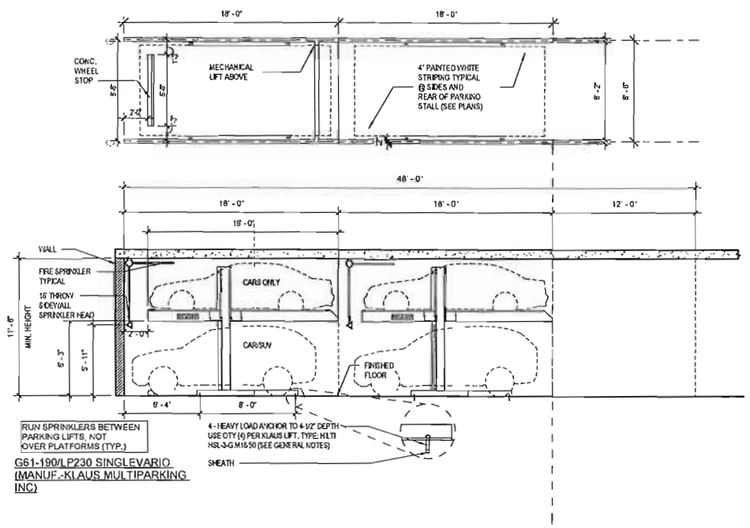
3 A-6.00 TYP. HANDICAPPED PARKING STALL
1/4" = 1'-0"



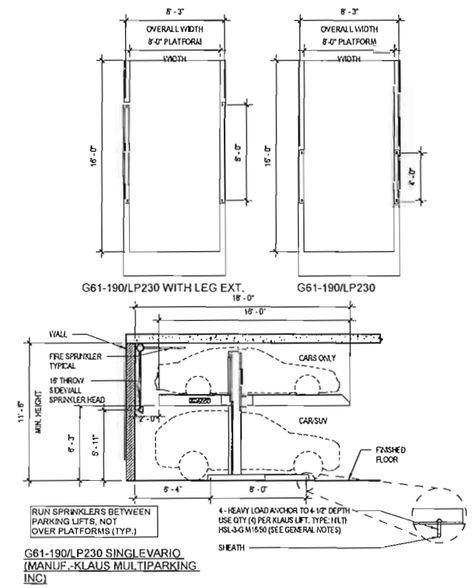
4 A-6.00 WHEEL STOP
3" = 1'-0"



5 A-6.00 TYP. VALET TANDEM STALL
1/4" = 1'-0"



6 A-6.00 PARKING STALL TANDEM LIFT
3/16" = 1'-0"



7 A-6.00 PARKING STALL SINGLE LIFT
3/16" = 1'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

90 WAVE
DANIA BEACH, FL

A-6.00
11-09-20

CONSTRUCTION PLANS

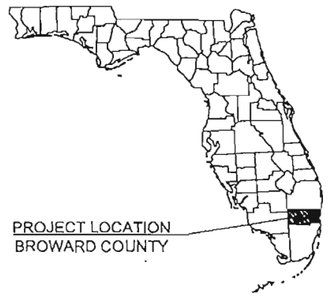
FOR

90 WAVE

LOCATED IN

CITY OF DANIA BEACH, FLORIDA

SECTION 33, TOWNSHIP 50S, RANGE 42E



PROJECT TEAM

OWNER/DEVELOPER
MICHAEL LALLY
DANIA BEACH OFFSHORE
90 N. BRYAN ROAD
DANIA BEACH, FL 33004
(954) 920-5595

ARCHITECT
PATRICK DUSTEED, AIA, NCARB
NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.
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CORAL GABLES, FL 33134
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SURVEYOR
GARY B CASTEL, PLS
25465 S.W. 134th PLACE
HOMESTEAD, FL 33032
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CIVIL ENGINEER
JACOB B LAWSON, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
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VERO BEACH, FLORIDA 32960
(772) 794-4100

LANDSCAPE ARCHITECT
MATTHEW FRANKO
KIMLEY-HORN AND ASSOCIATES, INC.
189 SOUTH ORANGE AVE, SUITE 1000
ORLANDO, FL 32801
(407) 906-1511

ENVIRONMENTAL CONSULTANT
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KIMLEY-HORN AND ASSOCIATES, INC.
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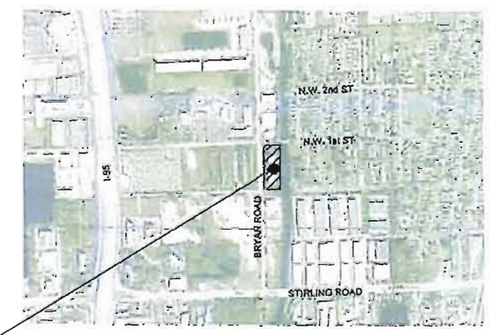
GEOTECHNICAL CONSULTANT
PETER READ, P.E.
UNIVERSAL ENGINEERING SERVICES
1818 7TH AVENUE NORTH, UNIT 1
LAKE WORTH, FL 33461
(561) 540-6200



PROJECT LOCATION

VICINITY
N.T.S.

LIST OF CONTACTS

STORMWATER
BROWARD COUNTY SURFACE WATER MANAGEMENT
1 NORTH UNIVERSITY DRIVE, 201A
PLANTATION, FL 33324
(954) 519-1473
CONTACT: ASHLEY RESTA

WATER
CITY OF DANIA BEACH
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-3615

SANITARY SEWER
CITY OF DANIA BEACH
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-3615

FIRE PREVENTION
BROWARD COUNTY FIRE MARSHAL
DANIA BEACH DISTRICT
100 W/ DANIA BEACH BOULEVARD
DANIA BEACH, FL 33004
(954) 942-4263

PLANNING AND ZONING
CITY OF DANIA BEACH
100 WEST DANIA BEACH BOULEVARD
DANIA BEACH, FL 33004
(954) 924-6505
CONTACT: CORDINE LAJOIE

ENGINEERING
CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-6605

BUILDING DIVISION
CITY OF DANIA BEACH
100 WEST DANIA BEACH BOULEVARD
DANIA BEACH, FL 33004
(954) 924-6605 EXT. 3045
CONTACT: ELEANOR NORENA

LANDSCAPING AND TREE PRESERVATION
METRIC ENGINEERING
13940 SW 120TH STREET
MIAMI, FL 33186
(305) 235-5088 EXT. 173
CONTACT: DANIEL PAROSOK

ELECTRIC PROVIDER
FLORIDA POWER AND LIGHT
4000 DAVIE ROAD EXTENSION
HOLLYWOOD, FL 33024
(954) 442-6381
CONTACT: DAVID DILL

TELEPHONE PROVIDER
AT&T
8601 W. SUNRISE BLVD.
PLANTATION, FL 33322
(954) 476-2734
CONTACT: RICHARDO IBARRA

NATURAL GAS PROVIDER
TECO PEOPLES GAS
5101 NW 21ST AVENUE, SUITE 460
(954) 453-0784
CONTACT: DAVID RIVERA

PREPARED BY:
Kimley»Horn

Sheet List Table

Sheet Number	Sheet Title
C-000	COVER SHEET
C-001	GENERAL NOTES
V-1	90 NORTH BRYAN SURVEY
V-2	90 NORTH BRYAN SURVEY
V-3	90 NORTH BRYAN SURVEY
C-002	EROSION CONTROL PLAN
C-003	EROSION CONTROL DETAILS
C-100	SITE PLAN
C-200	PAVING GRADING AND DRAINAGE PLAN
C-300	UTILITY PLAN
C-400	GENERAL DETAILS
S-401	TYPICAL BOARDWALK SECTIONS
S-402	TYPICAL FLOATING DOCK AND GANGWAY DETAILS
C-403	UTILITY DETAILS
C-404	UTILITY DETAILS
L0.50	TREE MITIGATION PLAN - 90 WAVE
L0.51	TREE MITIGATION SPECIFICATIONS
L1.00	LANDSCAPE PLAN - 90 WAVE
L1.50	LANDSCAPE DETAILS
L1.51	LANDSCAPE SPECIFICATIONS
L2.00	SCHEMATIC IRRIGATION PLAN - 90 WAVE
L2.50	IRRIGATION DETAILS
L2.51	IRRIGATION SPECIFICATIONS
L4.00	LIGHTING PLAN - 90 WAVE
A-3.00	0100 LEVEL FLOOR PLAN
A-3.01	0200 LEVEL FLOOR PLAN
A-3.02	0300 LEVEL FLOOR PLAN
A-3.03	0400 LEVEL FLOOR PLAN
A-3.04	0500 LEVEL FLOOR PLAN
A-3.05	0600 LEVEL FLOOR PLAN
A-3.06	0700-1600 LEVELS TYPICAL FLOOR PLAN
A-3.07	ROOF PLAN
A-4.00	WEST ELEVATION
A-4.01	EAST ELEVATION
A-4.02	NORTH ELEVATION
A-4.03	SOUTH ELEVATION
A-5.00	BUILDING CROSS SECTION
A-5.01	LOADING AREA FLOOR PLAN
A-6.00	PARKING GARAGE SPECIFICATIONS

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS SHOULD INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW!
DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

NO.	REVISIONS	DATE	BY

Kimley»Horn
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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
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JACOB BRINTON LAWSON
STATE OF FLORIDA
No. 76777
PROFESSIONAL ENGINEER

KHA PROJECT 143700000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

COVER SHEET

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-000

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES. SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
11. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
12. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
14. OWNER IS RESPONSIBLE FOR SIDEWALKS AND SWALE IMPROVEMENTS WITHIN THE ROAD ROW.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, PADS AND OTHER SITE IMPROVEMENTS, EXCEPT FOR ITEMS TO REMAIN, BE SALVAGED, REUSED, OR REINSTALLED, TO A DEPTH AGREED UPON BY COSTCO WHOLESALE; UNLESS OTHERWISE NOTED, ALL DEMOLISHED MATERIALS NO IDENTIFIED FOR RE-USE OR TO BE SALVAGED SHALL BE REMOVED FROM THE SITE AND SHALL BECOME THE PROPERTY OF THE DEMOLITION CONTRACTOR
5. DEMOLITION WORK SHALL BE IDENTIFIED ON A PLAN THAT INDICATES THE LOCATION. EXTENT OF REMOVALS AND PROPOSED PROTECTIVE MEASURES EMPLOYED DURING REMOVALS; THE PLAN SHALL IDENTIFY REQUIRED PROTECTION MEASURES FOR ENVIRONMENTAL DUST AND NOISE REMOVAL

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN SITE DEVELOPMENT AND COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY AND SITE DEVELOPMENT DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.
3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.
5. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
11. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS. FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
16. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.
17. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
18. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
20. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

WATER AND SEWER UTILITY NOTES

1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.
3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAR AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER, CIVIL ENGINEER, AND JURISDICTIONAL AGENCY AS REQUIRED.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

EROSION CONTROL NOTES (CONT.)

13. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO SECTION 981 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.
15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
18. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
20. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION).
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED TO 50 CUBIC YARDS / ACRE.
7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
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PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

JACOB BRANTON CHASE, P.E. — STATE OF FLORIDA — PROFESSIONAL ENGINEER

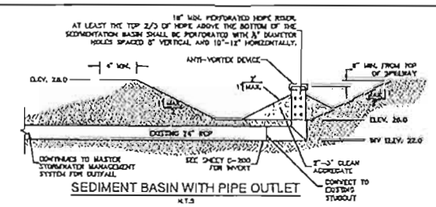
DATE

KHA PROJECT 147705000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

GENERAL NOTES

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-001



SEDIMENT BASIN WITH PIPE OUTLET

N.T.S.

SEDIMENT BASIN SIZING CALCULATION

REQUIRED: 2.9 AC X 43,560 SF/1 AC X 1 INCH X 1 FT/12 IN = 10,527 FT³

PROVIDED: 0.24 AC-FT = 10,327 FT³

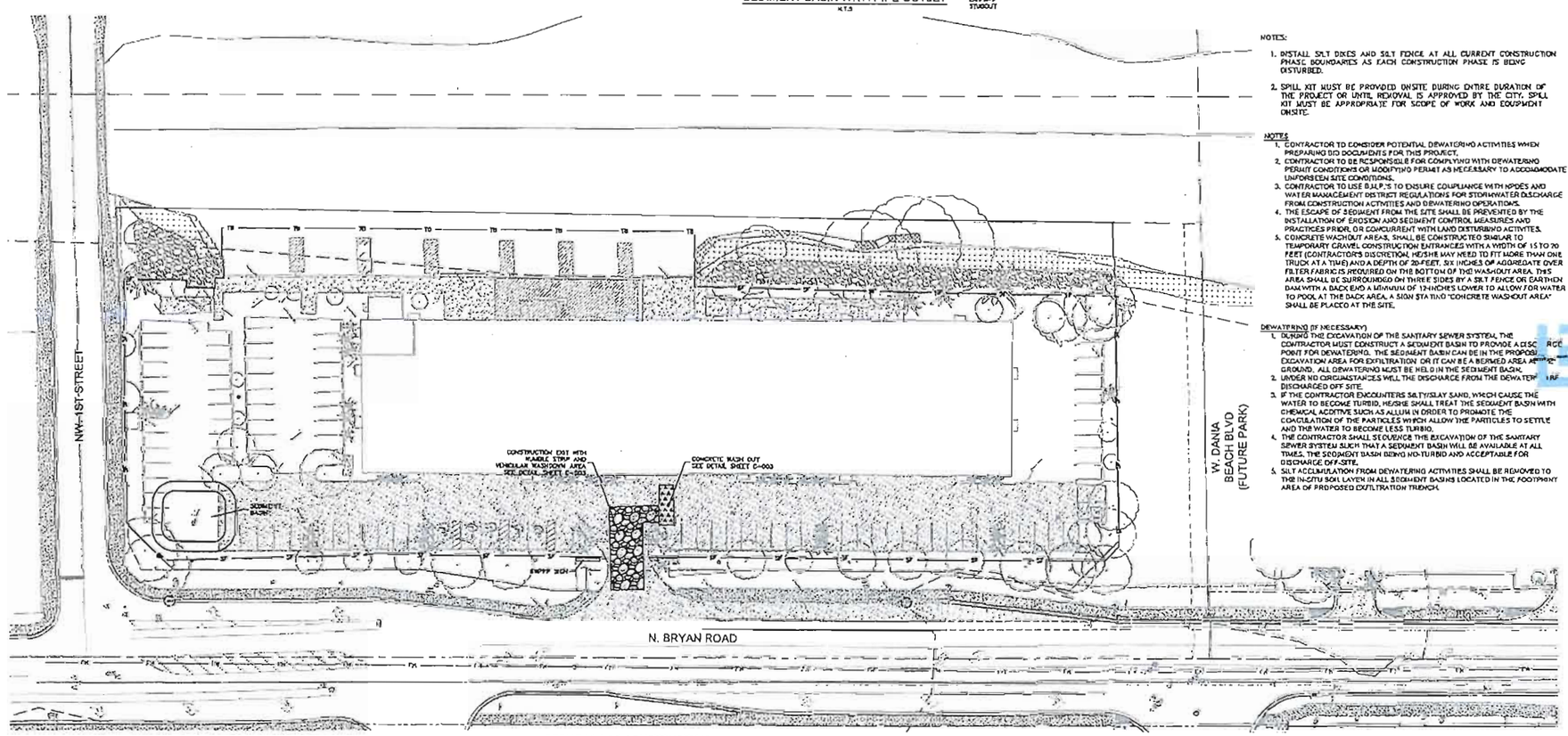
LEGEND

- INLET PROTECTION
- CONSTRUCTION EXIT
- CONCRETE WASHOUT
- SILT FENCE
- TURBIDITY BARRIER

NORTH

GRAPHIC SCALE IN FEET

0 15 30 60



NOTES:

1. INSTALL SILT DIKES AND SILT FENCE AT ALL CURRENT CONSTRUCTION PHASE BOUNDARIES AS EACH CONSTRUCTION PHASE IS BEING DISTURBED.
2. SPILL KIT MUST BE PROVIDED ONSITE DURING ENTIRE DURATION OF THE PROJECT OR UNTIL REMOVAL IS APPROVED BY THE CITY. SPILL KIT MUST BE APPROPRIATE FOR SCOPE OF WORK AND EQUIPMENT ONSITE.

NOTES

1. CONTRACTOR TO CONSIDER POTENTIAL DEWATERING ACTIVITIES WHEN PREPARING BID DOCUMENTS FOR THIS PROJECT.
2. CONTRACTOR TO BE RESPONSIBLE FOR COMPLYING WITH DEWATERING PERMIT CONDITIONS OR MODIFYING PERMIT AS NECESSARY TO ACCOMMODATE UNFORESEEN SITE CONDITIONS.
3. CONTRACTOR TO USE B.M.P.'S TO ENSURE COMPLIANCE WITH NPDES AND WATER MANAGEMENT DISTRICT REGULATIONS FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND DEWATERING OPERATIONS.
4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
5. CONCRETE WASHOUT AREAS, SHALL BE CONSTRUCTED SIMILAR TO TEMPORARY GRAVEL CONSTRUCTION ENTRANCES WITH A WIDTH OF 15 TO 20 FEET (CONTRACTOR'S DISCRETION, HE/SHE MAY NEED TO FIT MORE THAN ONE TRUCK AT A TIME) AND A DEPTH OF 20-FEET. SIX INCHES OF AGGREGATE OVER FILTER FABRIC IS REQUIRED ON THE BOTTOM OF THE WASHOUT AREA. THIS AREA SHALL BE SURROUNDED ON THREE SIDES BY A SILT FENCE OR EARTHEN DAM WITH A BACK END A MINIMUM OF 12-INCHES LOWER TO ALLOW FOR WATER TO POOL AT THE BACK AREA. A SIGN STATING "CONCRETE WASHOUT AREA" SHALL BE PLACED AT THE SITE.

DEWATERING (IF NECESSARY)

1. DURING THE EXCAVATION OF THE SANITARY SEWER SYSTEM, THE CONTRACTOR MUST CONSTRUCT A SEDIMENT BASIN TO PROVIDE A DISCHARGE POINT FOR DEWATERING. THE SEDIMENT BASIN CAN BE IN THE PROPOSED EXCAVATION AREA FOR EXFILTRATION OR IT CAN BE A BERMED AREA ABOVE GROUND. ALL DEWATERING MUST BE HELD IN THE SEDIMENT BASIN.
2. UNDER NO CIRCUMSTANCES WILL THE DISCHARGE FROM THE DEWATERING BE DISCHARGED OFF SITE.
3. IF THE CONTRACTOR ENCOUNTERS SILTY/CLAY SAND, WHICH CAUSE THE WATER TO BECOME TURBID, HE/SHE SHALL TREAT THE SEDIMENT BASIN WITH CHEMICAL ADDITIVE SUCH AS ALLUM IN ORDER TO PROMOTE THE COAGULATION OF THE PARTICLES WHICH ALLOW THE PARTICLES TO SETTLE AND THE WATER TO BECOME LESS TURBID.
4. THE CONTRACTOR SHALL SEQUENCE THE EXCAVATION OF THE SANITARY SEWER SYSTEM SUCH THAT A SEDIMENT BASIN WILL BE AVAILABLE AT ALL TIMES. THE SEDIMENT BASIN BEING NO-TURBID AND ACCEPTABLE FOR DISCHARGE OFF-SITE.
5. SILT ACCUMULATION FROM DEWATERING ACTIVITIES SHALL BE REMOVED TO THE IN-SITU SOIL LAYER IN ALL SEDIMENT BASINS LOCATED IN THE FOOTPRINT AREA OF PROPOSED EXFILTRATION TRENCH.

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

BEFORE AND DURING GRADING

1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S). INSTALL SILT FENCE AND INLET PROTECTION ON STRUCTURES TO REMAIN.
2. DEMOLISH EXISTING STRUCTURES, IF APPLICABLE.
3. CONSTRUCT AND STABILIZE ANY NECESSARY SEDIMENT BASIN AND DRAINAGE SWALES WITH APPROPRIATE OUTFALL STRUCTURES (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL CONTROL DEVICES LISTED ABOVE)
4. INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES, CHECK DAMS, OUTLET TRAPS, ETC.)
5. PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.

HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

CONTRACTOR TO BE RESPONSIBLE FOR COMPLYING WITH DEWATERING PERMIT CONDITIONS OR MODIFYING PERMIT AS NECESSARY TO ACCOMMODATE UNFORSEEN SITE CONDITIONS. ALL STORM AND EXFILTRATION TRENCH TO BE CONSTRUCTED IN THE WET.

AFTER GRADING AND DURING CONSTRUCTION

1. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
2. PERFORM MASS GRADING, ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
3. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION. DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY DEPERC PERMIT.
4. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, AND CURBS.
5. INSTALL RIP RAP AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
6. INSTALL INLET PROTECTION AT ALL STORM DRAIN INLETS AS EACH INLET IS INSTALLED. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
7. PREPARE SITE FOR PAVING AND PAVE SITE.
8. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
9. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
10. CONTACT CIVIL ENGINEER ONCE THE SITE APPEARS TO BE FULLY STABILIZED.
11. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER INSPECTION AND APPROVAL OF THE ENGINEER AND STABILIZE ANY AREA DISTURBED BY THE REMOVAL OF BMPS.
12. CONTINUE REQUIRED INSPECTION REPORTS UNTIL THE FINAL INSPECTION IS SIGNED OFF BY THE JOB SUPERINTENDENT THAT THE SITE IS FULLY STABILIZED AND THE PERMIT MAY BE TERMINATED.

MAINTENANCE (ALL PHASES)

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULL FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR/PRIMARY PERMITEE. THESE MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THE ISSUE.

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY CONSTRUCTION EXITS												
TEMPORARY CONTROL MEASURES												
SEDIMENT CONTROL BASINS												
STRIP & STOCKPILE TOPSOIL												
ROUGH GRADE												
STORM FACILITIES												
SITE CONSTRUCTION												
PERMANENT CONTROL STRUCTURES												
FOUNDATION / BUILDING CONSTRUCTION												
FINISH GRADING												
LANDSCAPING/SEED/FINAL STABILIZATION												

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA: 00000696

JACOB BRINTON
STATE OF FLORIDA
PROFESSIONAL ENGINEER

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

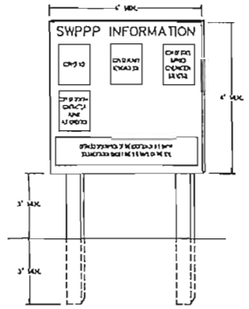
EROSION CONTROL PLAN

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-002

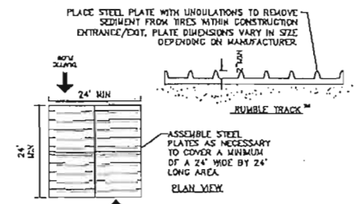
EROSION CONTROL NOTES

1. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND DITCH MEASURES INTRODUCED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.
6. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
7. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN APPROPRIATE TEMPORARY OR PERMANENT CHANNEL, FLUME, SLOPE DRAIN STRUCTURE OR APPROVED CONTROL.
8. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORM WATER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
10. REMOVAL, RESTORATION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MAY BE REQUIRED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROLS. SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY AT THE END OF EACH WORKING DAY.
11. VEHICLE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADWAY SHOVELED OR SWEPT AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL BUILDING OR LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.
12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
13. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION AT ALL TIMES DURING CONSTRUCTION.
14. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN THE "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL" AND COUNTY PERMITS.
15. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, MAINTAIN RUN OFF ON DEWATERING ACTIVITIES.
16. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY AND SWPPP REQUIREMENTS.
17. THE POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMPS MAY BE NECESSARY AT CONTRACTOR'S EXPENSE.
18. NOT TO BE POSTED ON SITE.



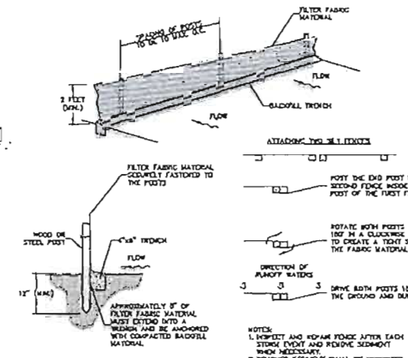
NOTES:
1. "SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.
2. SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (RAIN, SUN, MOISTURE, ETC.).
3. THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE/EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE/VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
4. ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PROJECT.
5. CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE LOCAL AGENCY.
6. SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE CONTROLLING AGENCY.
7. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THIS SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN
N.T.S



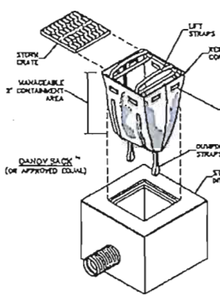
NOTES
1. CONTRACTOR TO USE RUMBLE TRACK™ OR EQUIVALENT PRODUCT APPROVED BY EEC.
2. DIMENSIONS OF THE COMBINED STEEL PLATES SHOULD BE A MINIMUM OF 24' WIDE BY 24' LONG AND PLACED WITHIN THE LIMITS OF THE CONSTRUCTION ENTRANCE/EXIT.
3. CONTRACTOR TO FASTEN THE PLATES TO THE EXISTING ASPHALT AS NECESSARY.

CONSTRUCTION ENTRANCE/EXIT
N.T.S.



NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFECTIVENESS.

SILT FENCE INSTALLATION
N.T.S

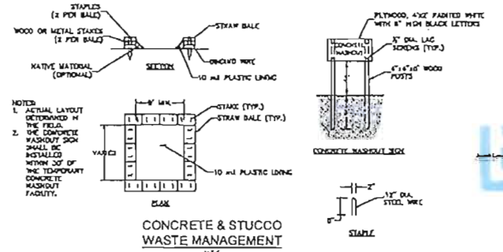


INLET INSERT
N.T.S

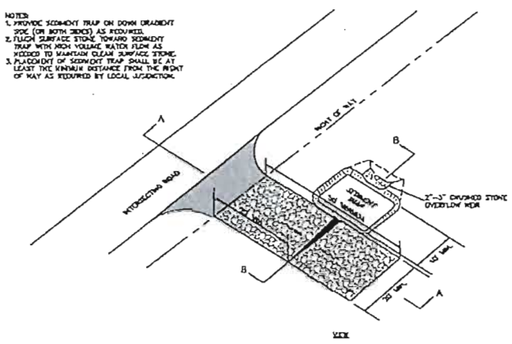
LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.02 SEC -1

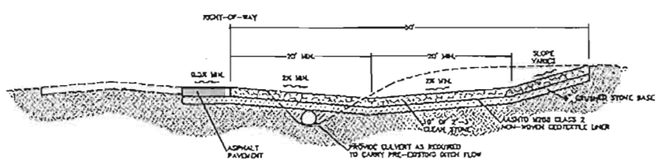
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

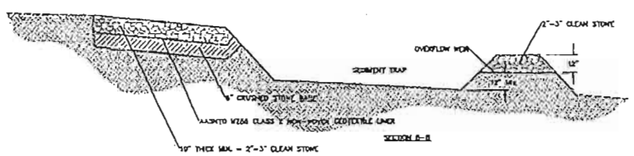
NOTES:
1. FOR TEMPORARY USE TO CAPTURE LARGER DIAMETER SEDIMENTS. NOT TO BE UTILIZED AS THE ONLY SEDIMENT CONTAINMENT SYSTEM
2. GEOTEXTILE WILL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. AN OIL ABSORBENT PAD OR PILLOW CAN BE PURCHASED WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY REQUIREMENTS.



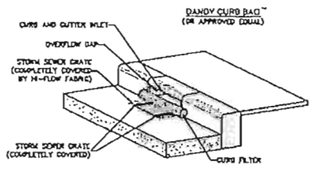
CONCRETE & STUCCO WASTE MANAGEMENT
N.T.S

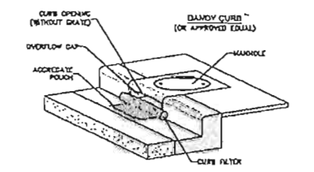




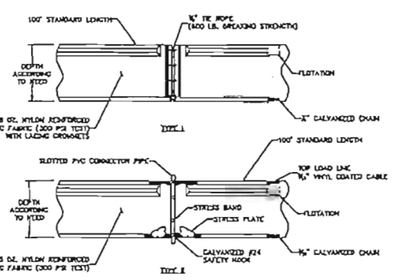


CONSTRUCTION EXIT
N.T.S





CURB INLET SEDIMENT CONTROL
N.T.S



FLOATING TURBIDITY BARRIERS
N.T.S

TYPICAL SWALE SECTION
N.T.S

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS SHOULD INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

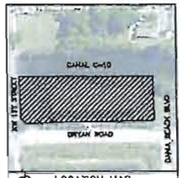
Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA: 00000696

NHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

EROSION CONTROL DETAILS

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-003



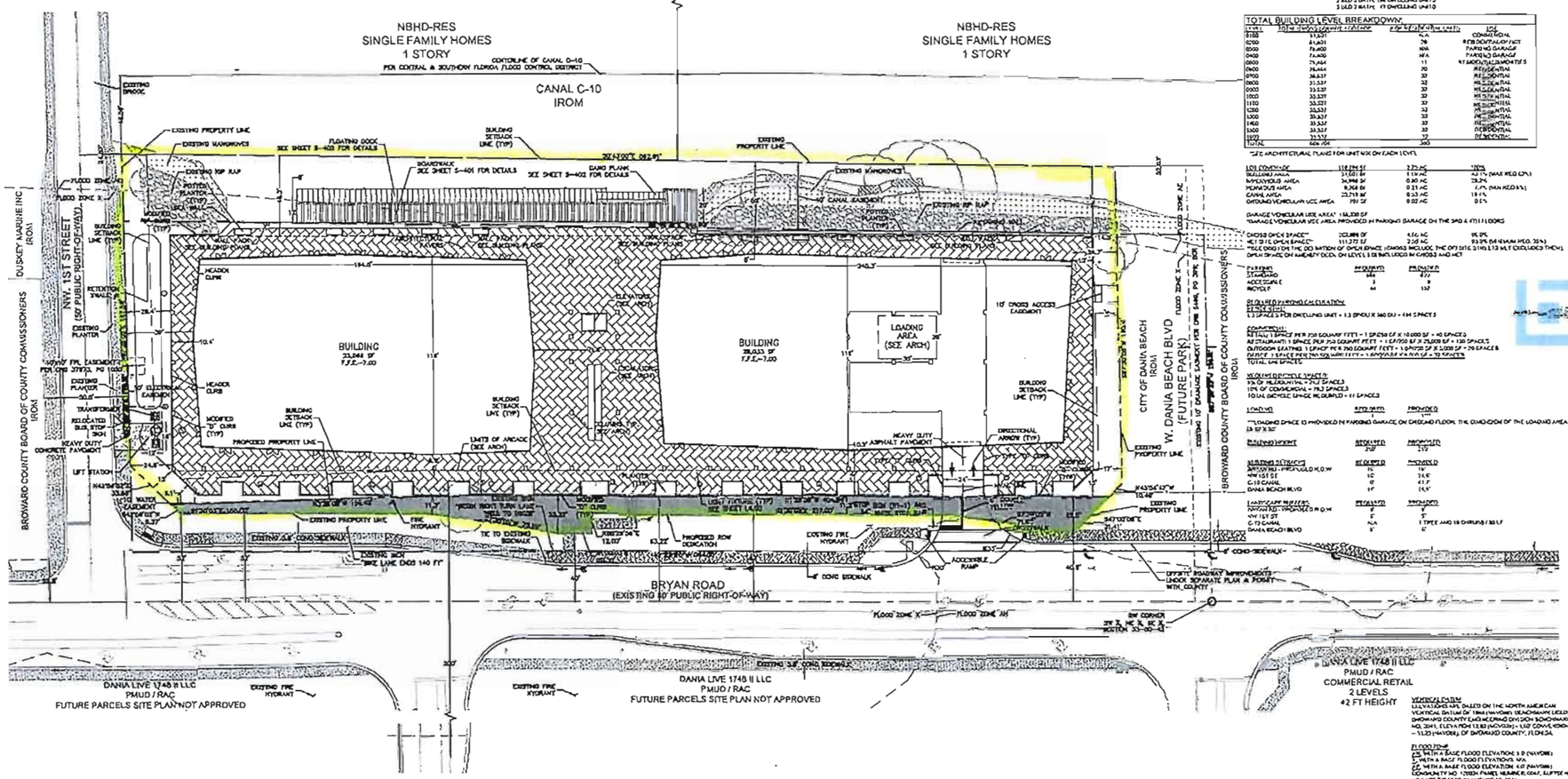
LOCATION MAP
1"=250'

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

LEGEND:

- PAVERS
- STANDARD DUTY CONCRETE
- HEAVY DUTY CONCRETE
- EXISTING CONCRETE
- HEAVY DUTY ASPHALT
- PROPOSED RIGHT-OF-WAY DEDICATION



90 WAVE SITE DATA:

LOCATION:	SECTION 32, TOWNSHIP 50 S, RANGE 42 E	
ADDRESS:	90 N. BRYAN ROAD, DANIA BEACH, FLORIDA 33004	
ADJACENT ZONING:	SEE PLAN	
ZONING:	PMUD-32	
LAND USE:	MXC - MIXED CENTRAL COMMERCIAL CENTER	
GROSS SITE AREA:	191,321 SF	4.39 AC
SITE AREA:	129,245 SF	2.97 AC
RIGHT-OF-WAY DEDICATION:	6,971 SF	0.16 AC
NET SITE AREA:	118,294 SF	2.71 AC
GROSS DENSITY:	74 DU/AC	
NET DENSITY:	134 DU/AC	
	REQUIRED	PROVIDED
GROSS FAR:		2.54
NET SITE FAR:	4.21 (MAX)	4.30

EXISTING BUILDING: 138,113 SF BOAT STORAGE FACILITY AND 13,300 TO (TO BE DEMOLISHED)
PROPOSED BUILDING: 48,000 SF GENERAL COMMERCIAL, AND
360 RESIDENTIAL DWELLING UNITS
GROUND LEVEL: 72 DWELLING UNITS
2 FLOOR: 72 DWELLING UNITS
3 BLD 1 BATH: 96 DWELLING UNITS
2 BLD 2 BATH: 196 DWELLING UNITS
3 BLD 3 BATH: 72 DWELLING UNITS

TOTAL BUILDING LEVEL BREAKDOWN

LEVEL	TOTAL GROSS AREA (SF)	PARKING AREA (SF)	USE
B100	33,520	N/A	COMMERCIAL
B200	41,620	76	RESIDENTIAL/PARKING
B300	73,600	N/A	PARKING GARAGE
B400	73,600	N/A	PARKING GARAGE
B500	73,464	11	RESIDENTIAL/COMMERCIAL
B600	36,464	70	RESIDENTIAL
B700	36,537	32	RESIDENTIAL
B800	33,537	32	RESIDENTIAL
B900	33,537	32	RESIDENTIAL
B1000	33,537	32	RESIDENTIAL
B1100	33,537	32	RESIDENTIAL
B1200	33,537	32	RESIDENTIAL
B1300	33,537	32	RESIDENTIAL
B1400	33,537	32	RESIDENTIAL
B1500	33,537	32	RESIDENTIAL
B1600	33,537	32	RESIDENTIAL
TOTAL	606,404	360	

*SEE ARCHITECTURAL PLANS FOR UNIT MIX ON EACH LEVEL

LOT COVERAGE			
BUILDING AREA	118,294 SF	2.71 AC	100%
IMPERVIOUS AREA	54,998 SF	0.80 AC	46.5% (MAX ALLOWED 60%)
PERVIOUS AREA	8,268 SF	0.21 AC	7.0% (MAX ALLOWED 35%)
CANAL AREA	23,719 SF	0.33 AC	18.0%
OVERGROUND VEHICULAR USE AREA	791 SF	0.02 AC	0.6%

GARAGE VEHICULAR USE AREA* = 166,000 SF
*GARAGE VEHICULAR USE AREA PROVIDED IN PARKING GARAGE ON THE 3RD & 4TH LEVEL DOORS

GROSS OPEN SPACE*	103,488 SF	4.56 AC	95.0%
NET SITE OPEN SPACE**	111,272 SF	2.56 AC	93.9% (MINIMUM REQ. 35%)

*NOTE: DEDUCTION FROM THE GROSS AREA OF OPEN SPACE: (GROSS INCLUDES THE OPEN SITE 51,115 & 1,13 MLF EXCLUDES THEM)
OPEN SPACE ON NATURAL GRD. ON LEVEL 1 (18,965 INCLUDES IN GROSS AND NET

PARKING	REQUIRED	PROVIDED
STANDARD	346	377
ACCESSIBLE	8	8
BICYCLE	44	132

REQUIRED PARKING CALCULATION
RESIDENTIAL:
1.5 SPACES PER DWELLING UNIT = 1.5 SPACES X 360 DU = 541 SPACES
COMMERCIAL:
RETAIL: 1 SPACE PER 250 SQUARE FEET = 1 SPACE OF X = 10,000 SF = 40 SPACES
RESTAURANTS: 1 SPACE PER 250 SQUARE FEET = 1 SPACE OF X = 25,000 SF = 100 SPACES
OUTDOOR SEATING: 1 SPACE PER 250 SQUARE FEET = 1 SPACE OF X 2,000 SF = 8 SPACES
OFFICE: 1 SPACE PER 250 SQUARE FEET = 1 SPACE OF X 4,000 SF = 16 SPACES
TOTAL: 164 SPACES

REQUIRED BICYCLE SPACES:
5% OF RESIDENTIAL = 27.05 SPACES
10% OF COMMERCIAL = 16.2 SPACES
TOTAL BICYCLE SPACE REQUIRED = 44 SPACES

LOADING	REQUIRED	PROVIDED
	2	2

*LOADING SPACE IS PROVIDED IN PARKING GARAGE ON GROUND FLOOR. THE DIMENSION OF THE LOADING AREA IS 12' X 30'

RAILROAD SIDING	REQUIRED	PROVIDED
	2	2

BUILDING SETBACKS	REQUIRED	PROVIDED
BRYAN RD - PRESCRIBED R.O.W	15'	15'
NW 1ST ST	10'	24.6'
C-10 CANAL	0'	41.7'
DANIA BEACH BLVD	15'	14.9'

LANDSCAPE BUFFERS	REQUIRED	PROVIDED
BRYAN RD - PRESCRIBED R.O.W	5'	5'
NW 1ST ST	5'	5'
C-10 CANAL	N/A	1 TREE AND 18 SHRUBS / 100 LF
DANIA BEACH BLVD	5'	5'

VERTICAL DATUM
ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BENCHMARK USED: BROWARD COUNTY ENGINEERING DIVISION BENCHMARK NO. 2041, ELEVATION 12.82 (NAVD88) - 1.67 (DNL) (NGVD) = 11.21 (NAVD88) OF BROWARD COUNTY, FLORIDA.

FLOOD ZONE
X: WITH A BASE FLOOD ELEVATION: 3.0 (NAVD88)
X: WITH A BASE FLOOD ELEVATION: N/A
AE: WITH A BASE FLOOD ELEVATION: 4.0 (NAVD88)
COMMUNITY NO. 125094 PANEL NUMBER 0561, SUFFIX H, AS LAST REVISED ON AUGUST 18, 2014.

X: WITH A BASE FLOOD ELEVATION: 3.0 (NAVD88)
X: WITH A BASE FLOOD ELEVATION: N/A
COMMUNITY NO. 125094 PANEL NUMBER 0561, SUFFIX J AS PRELIMINARY DECEMBER 21, 2018

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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LEGAL DESCRIPTION - NORTH BUILDING

ALL OF PARCEL A, BRYAN ROAD WAREHOUSE, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 176, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; TOGETHER WITH A 42 FOOT STRIP OF LAND LYING ADJACENT TO AND CONTIGUOUS WITH THE EASTERLY BOUNDARY OF SAID PARCEL A.

NOTES:
1. SIGNAGE BY SEPARATE PERMIT
2. REFER TO DEVELOPMENT AGREEMENT AND PMUD-04 DESIGN MAP AND MASTER DEVELOPMENT PLAN.
3. ALL VEHICULAR MATERIALS TO BE THERMOPLASTIC

Kimley»Horn
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PHONE: 772-794-4100
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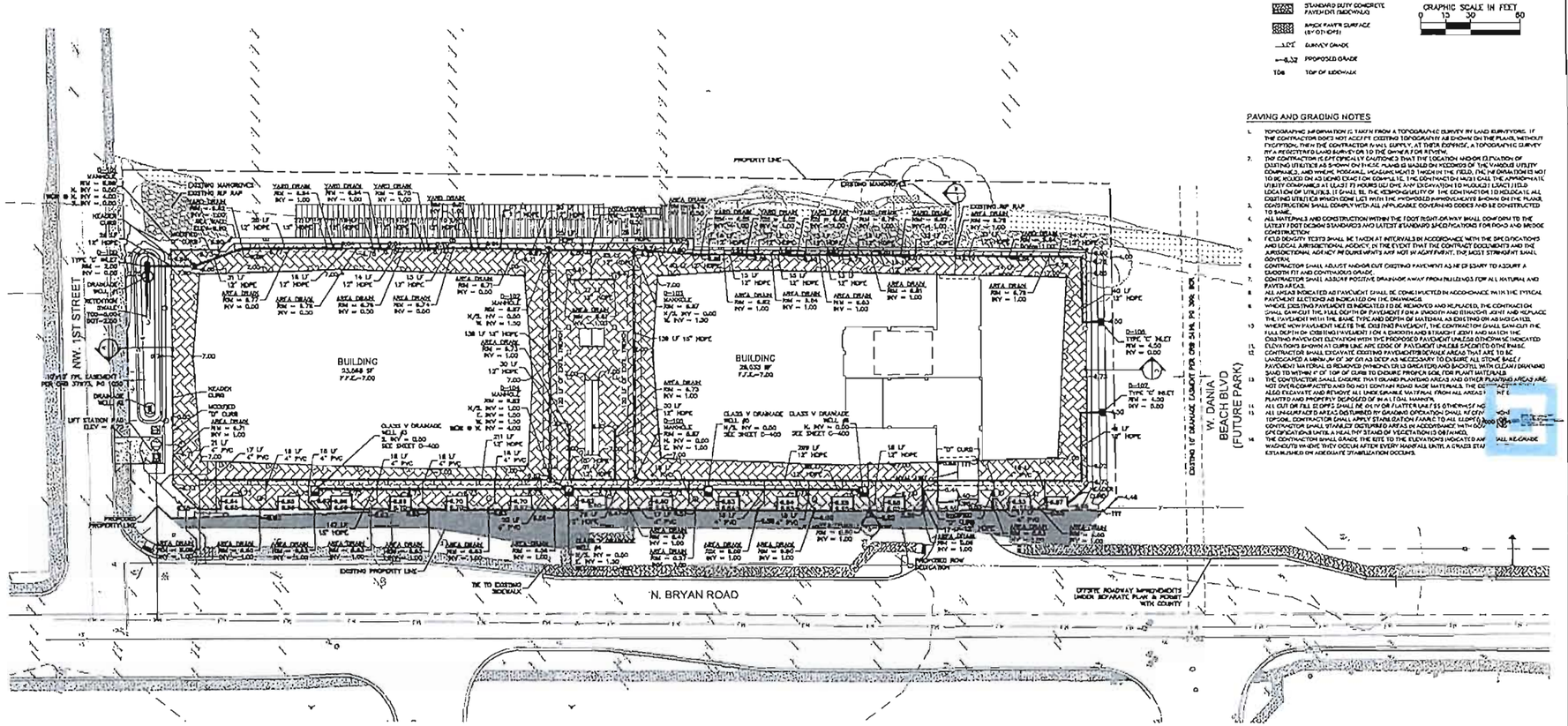
NO.	REVISIONS	DATE	BY

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

SITE PLAN

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-100



PAVING LEGEND

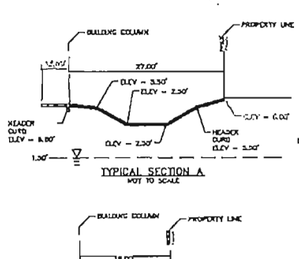
- TYPE "F" CURB AND GUTTER
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- STANDARD DUTY CONCRETE PAVEMENT (SIDEWALK)
- BRICK PAVER SURFACE (8"x 0"x 1-3/8")
- 10.0' SURVEY GRADE
- 8.32 PROPOSED GRADE
- 10.6 TOP OF SIDEWALK

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

PAVING AND GRADING NOTES

1. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR WILL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
2. THE CONTRACTOR IS EXPRESSLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO HAVE THE EXACT FIELD LOCATION OF UTILITIES TO BE MADE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH COME INTO CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE COVERNING CODES AND BE CONSTRUCTED TO SAME.
4. ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST FDOT DESIGN STANDARDS AND LATEST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY PROVISIONS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
6. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
7. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
8. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
9. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAWCUT THE FULL DEPTH OF PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING ON AS-BUILT CHECK.
10. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAWCUT THE FULL DEPTH OF EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED ELEVATIONS SHOWN AT CURB LINE ARE EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
11. CONTRACTOR SHALL EXCAVATE EXISTING PAVEMENT/SIDEWALK AREAS THAT ARE TO BE LANDSCAPED A MINIMUM OF 30" BY 60" AS DEEP AS NECESSARY TO ENSURE ALL STONE BASE / PAVEMENT MATERIAL IS REMOVED (WHICHEVER IS GREATER) AND BACKFILL WITH CLEAN / DRAINING SAND TO WITHIN 6" OF TOP OF CURB TO ENSURE PROPER SOIL FOR PLANT MATERIALS.
12. THE CONTRACTOR SHALL ENSURE THAT GRAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT OVER COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
13. ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
14. ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 6" MIN. TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3:1 OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH SOD SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
15. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHENEVER THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS ESTABLISHED ON ADEQUATE STABILIZATION DOCUMENT.



TYPICAL SECTION A
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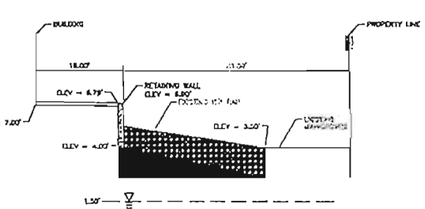

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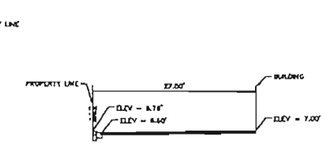

TYPICAL SECTION D
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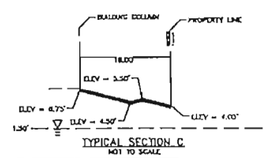

TYPICAL SECTION C
NOT TO SCALE

DRAINAGE NOTES

1. CONTRACTOR TO CONSTRUCT DRAINAGE STRUCTURES WITH LOOP GRATES, WING AND COVERS AS CALLED OUT OR APPROVED EQUAL. SHOP DRAWINGS ARE TO BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
2. CONTRACTOR TO REFER TO FDOT DESIGN STANDARDS (AND NOT LIMITED TO) INDEXES 425-001, 425-010, 425-020, 425-021, 425-036, 425-040, AND 425-050 FOR MANHOLE, INLET AND GRATE SPECIFICATIONS.
3. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED IN (1) PIECE BEARING HEAVY DUTY H-20 RATED TRAFFIC WING AND GRATES.
4. CONTRACTOR TO VERIFY ALL EXISTING UTILITY WINGS AND COVERS ON SITE ARE HEAVY DUTY TRAFFIC RATED. CONTRACTOR TO REPLACE DEFICIENT WINGS AND COVERS WITH HEAVY DUTY (TRAFFIC RATED) WINGS AND COVERS. CONTRACTOR TO ADJUST RIM ELEVATIONS OF ANY UTILITIES THAT CHANGE IN ELEVATION DURING CONSTRUCTION.
5. ALL CLEANOUT COVERS SHOULD BE RATED FOR HEAVY DUTY TRAFFIC.
6. SIDEWALKS AND CROSSWALKS SHALL NOT EXCEED 2% CROSS SLOPE NOR 5% LONGITUDINALLY. GRADES IN ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. IN CASES OF SIDEWALK LANDINGS AT BUILDING ENTRANCES, GRADES SHALL NOT EXCEED 2% IN ANY DIRECTION. ACCESSIBLE CURB RAMPS SHALL NOT EXCEED 8% IN LENGTH AND 1:12 SLOPE. LANDINGS AT CHANGES IN DIRECTION SHALL BE MINIMUM 60"x60" AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
7. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING BUBBLE TEE 4"x3" DIAMETER.
   B. FOR RCP DRAINAGE PIPE MAKE CONNECTION PER FDOT INDEX 2400 CONCRETE COLLAR FOR JOINED MAINLINE PIPE AND STUB PIPE DETAIL.
   C. NO SPIT CONCRETE FOR CONNECTION METHOD TO STEEL PIPE.
8. ALL DRAINAGE PIPE JOINTS SHALL BE FILTER FABRIC WRAPPED PER FDOT INDEX 4760. ALL DRAINAGE PIPE JOINTS NEED TO BE FILTER FABRIC WRAPPED REGARDLESS OF MATERIAL.
9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
10. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE.
11. EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
12. MANHOLES STRUCTURES MAY BE LOCKED AT CONTRACTOR'S OPTION.
13. ALL BRICK PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE TO WATERTIGHT.
14. ALL BRICK EDGE HAVE COLOR IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 1" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
15. ALL CATCH BASINS WITHIN PROPOSED TRAFFIC AREAS SHALL HAVE BICYCLE PROOF GRATES.
16. CONTRACTOR TO FLUSH AND VACUUM ENTIRE ON-SITE STORM WATER SYSTEM UPON COMPLETION OF PROPOSED WORK.

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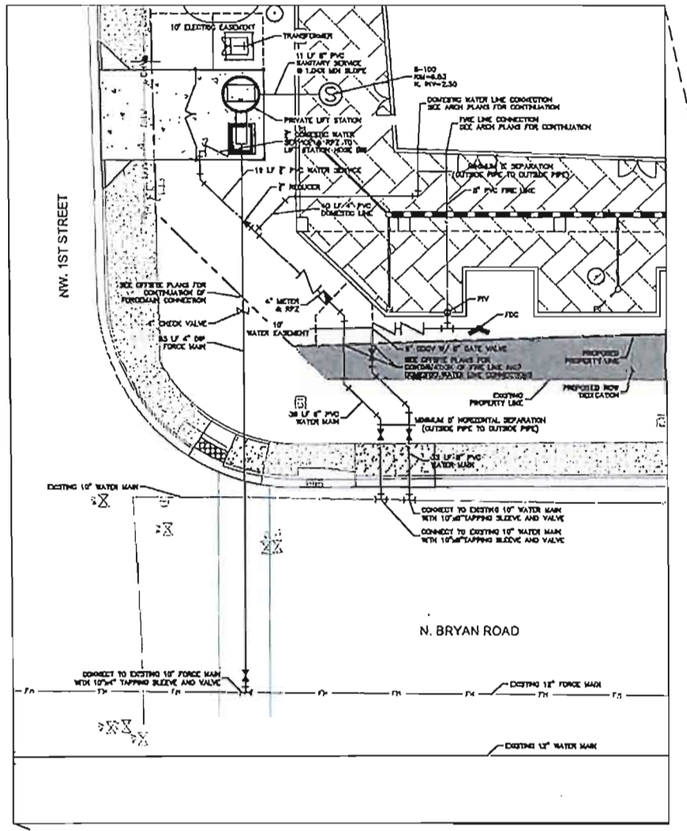
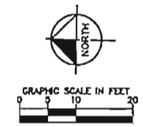
KH PROJECT 147196000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

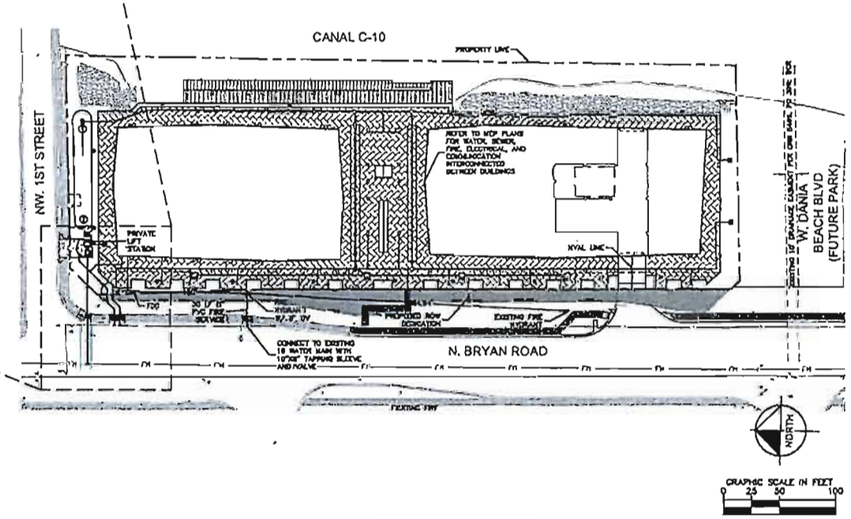
PAVING GRADING AND DRAINAGE PLAN

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-200







UTILITY NOTES

1. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
   8" PVC SDR26 PER ASTM D 3034, FOR PIPES LESS THAN 15' DEEP
   8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 15' DEEP
   6" PVC SCHEDULE 40
   DUCTILE IRON PIPE PER AWWA C150
4. WATER LINES SHALL BE AS FOLLOWS:
   8" AND LARGER, PVC C-900 PER ASTM D 2241 CLASS 200 UNDER COUNTY ROADS, DIP HEAVYWIDE CLASS 150
   4" AND LARGER DUCTILE IRON PIPE PER AWWA C150
   SMALLER THAN 6" EITHER COPPER TUBE TYPE "K" (SOFT) PER ANSI B16.22 OR PVC, 200 P.S.I., PER AEW D1170 AND D2241.
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
7. ALL UTILITIES SHOULD BE KEPT TEN (10) APART (PARALLEL) OR WHEN CROSSING UP VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4'-0" COVER ON ALL WATERLINES.
9. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 18 FEET ON BOTH SIDES OF CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF AWWA C-11 (AWWA C-151) (CLASS 50).
10. UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
11. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS WITHIN PAVED AREAS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS WITHIN LANDSCAPED AREAS.
12. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
13. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
14. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
15. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES (ANY CITY) WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
16. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO FIND OUT EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
17. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 20 DAYS PRIOR TO STORE POSSESSION.
18. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
19. REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
20. UNDERGROUND UTILITY LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
21. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING WATER MAINS, FIRE LINES, SANITARY SEWER AND STORM MAINS AND MAINTAIN MINIMUM CLEARANCE BETWEEN WATER MAINS AND OTHER UTILITIES AT ALL POINTS ALONG THEIR LENGTH AS REQUIRED IN THE PLANS, DETAILS AND SPECIFICATIONS.
23. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 20 DAYS PRIOR TO STORE POSSESSION.
24. THE FUTURE FIRE SERVICE FROM BUILDING TO CONNECTION POINT IS TO BE INSTALLED BY A LICENSED UTILITY CONTRACTOR HOLDING A "CONTRACTOR V" LICENSE IN ACCORDANCE WITH CH. 489 OF THE FLORIDA STATUTES.
25. ALL UTILITY MAINLINE SHOWN ARE APPROXIMATE.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR DEWATERING THE HOLE.

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

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PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

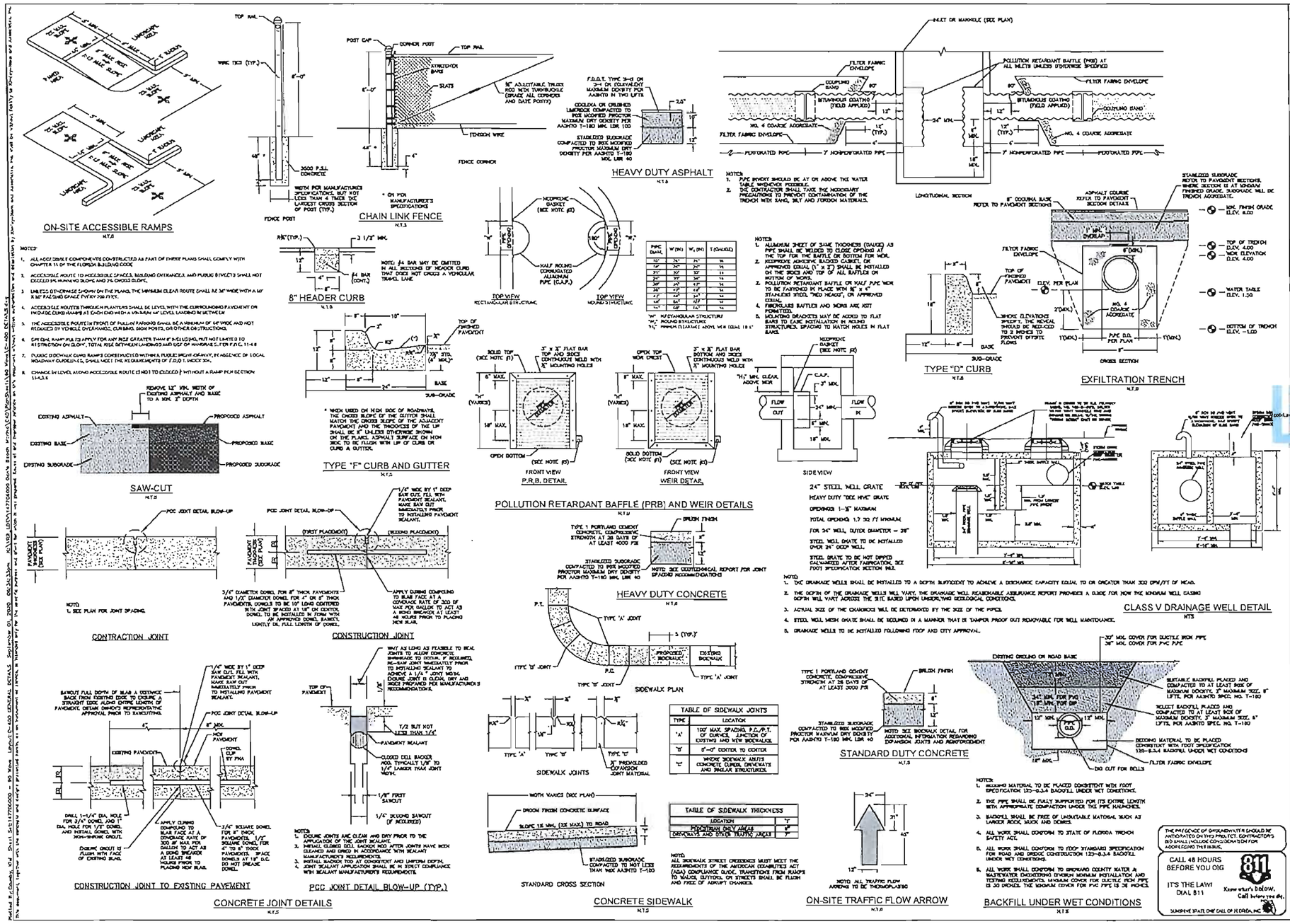
UTILITY PLAN

90 WAVE

PREPARED FOR
DANIA BEACH MARINE CORP.

CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-300



NO.	REVISIONS	DATE	BY

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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 561-845-0665
WWW.KIMLEY-HORN.COM CA: 00000696

STATE OF FLORIDA PROFESSIONAL ENGINEER

KHA PROJECT	147706000
DATE	07/02/2020
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	

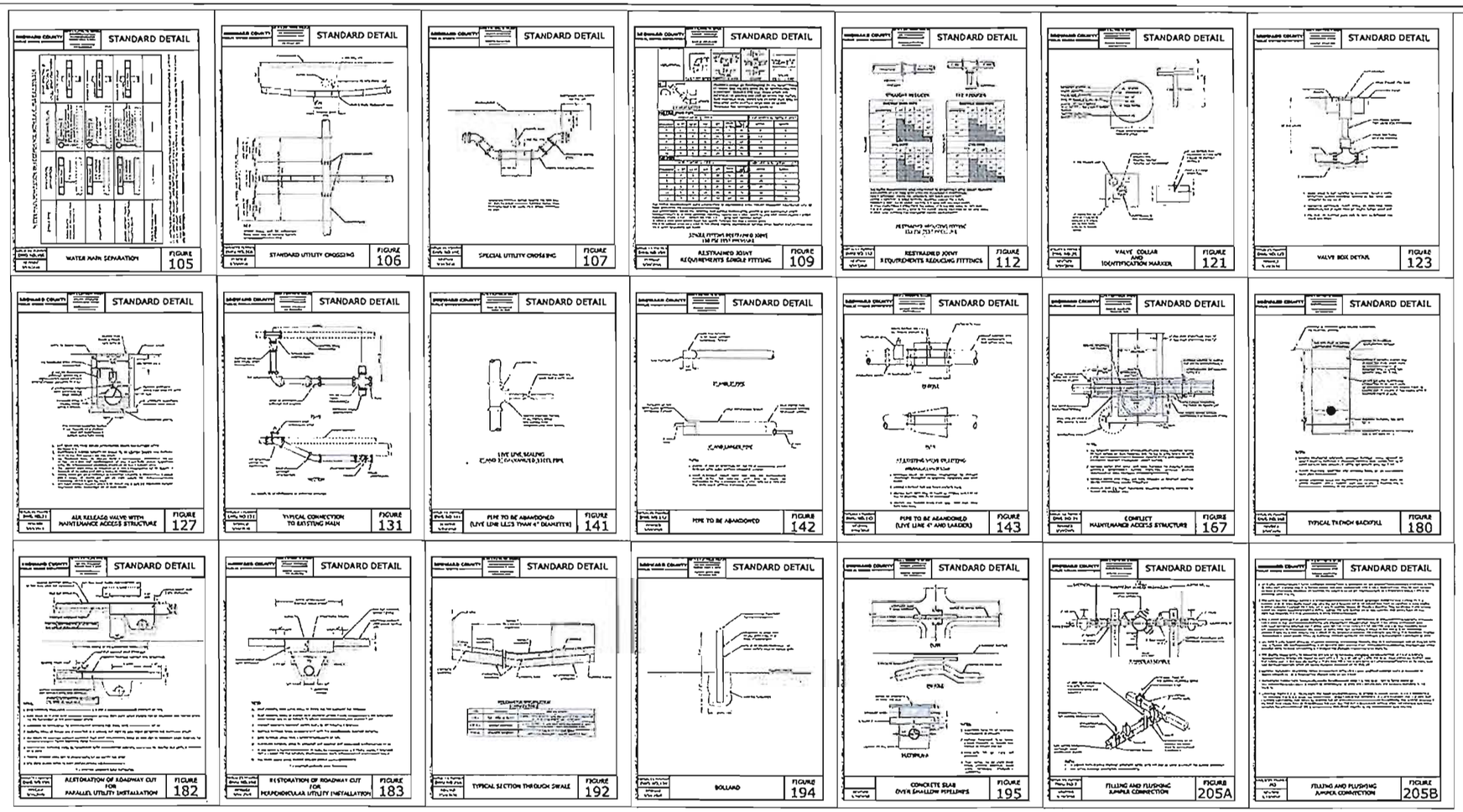
GENERAL DETAILS

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

THE PRESENCE OF UNDERGROUND UTILITIES SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THE ISSUE.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

SHEET NUMBER
C-400



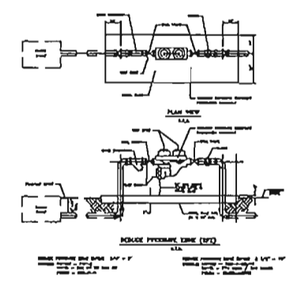
TESTING AND DISINFECTION

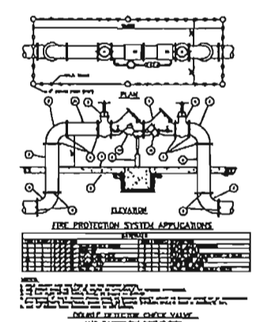
1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL THE PRESSURE AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED ON THE PROPOSED WATER MAINS AND THE SYSTEM IS ACCEPTABLE TO THE CITY OF HOLLYWOOD AND BROWARD COUNTY PUBLIC HEALTH UNIT (BCPHU).
2. THE PRESSURE TEST SHALL BE FOR 2 HOURS AT 150 PSI AND IN ACCORDANCE WITH AWS/AWWA STANDARD C600-03 OR LATEST REVISION. PRESSURE TEST SHALL BE WITNESSED BY THE CITY OF HOLLYWOOD. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:

$$L = \frac{S\,D\,\sqrt{P}}{148{,}000}$$

L = THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
S = THE LENGTH OF PIPE BEING TESTED.
D = THE NOMINAL DIAMETER OF THE PIPE BEING TESTED.
P = THE AVERAGE TEST PRESSURE IN POUNDS PER SQUARE INCH.

3. THE COMPLETE LENGTH OF THE PROPOSED WATER MAIN SHALL BE TESTED, IN LENGTHS NOT TO EXCEED 1,200 FEET PER TEST.
4. PROPOSED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWS/AWWA STANDARD C651-03 OR LATEST REVISION AND BACTERIOLOGICALLY TESTED FOR TWO CONSECUTIVE DAYS. THE





THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
440 24TH STREET, SUITE 300, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

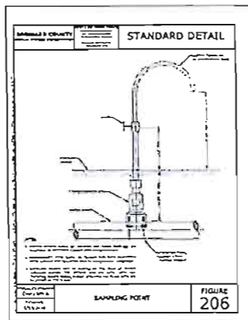
ALCON BARTON CLAYSON
STATE OF FLORIDA
PROFESSIONAL ENGINEER

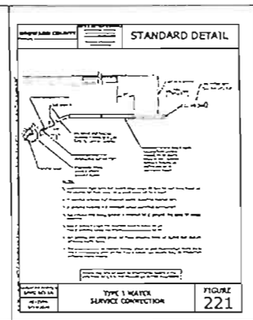
KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY —
DRAWN BY —
CHECKED BY —

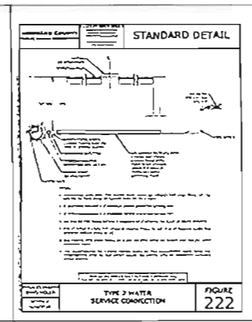
UTILITY DETAILS

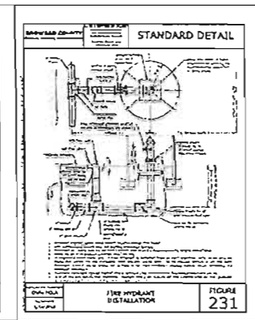
90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

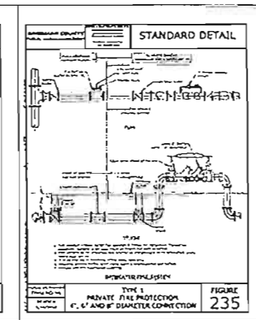
SHEET NUMBER
C-403

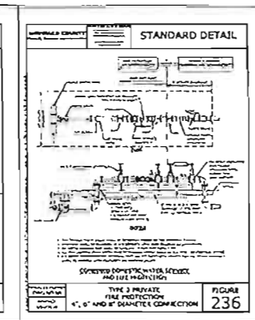


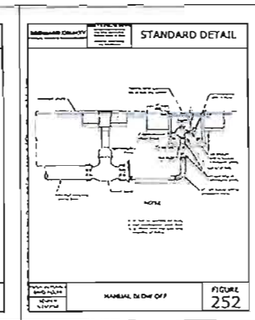


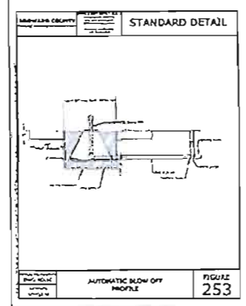


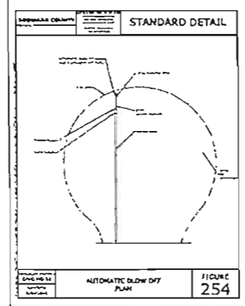


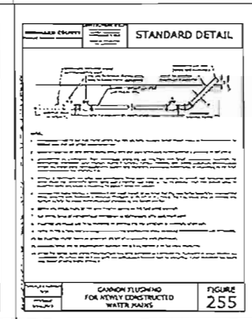


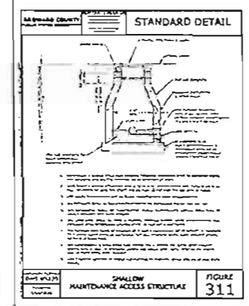


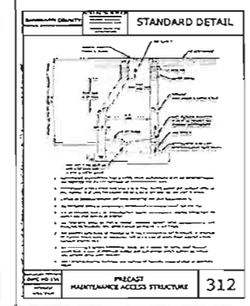


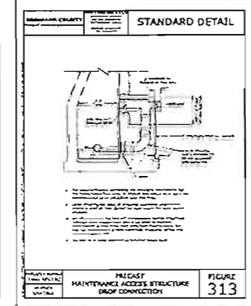


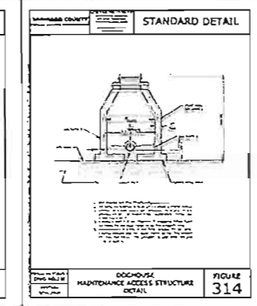


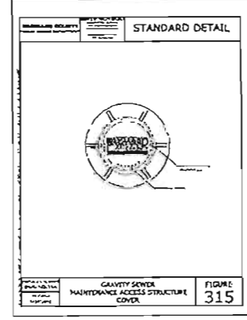


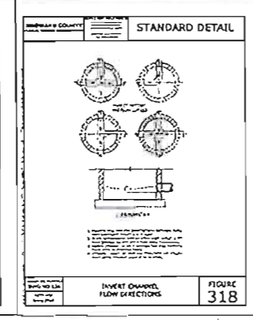


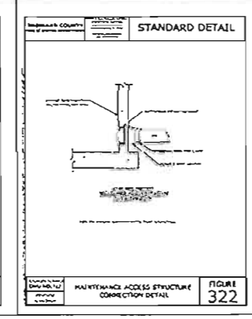


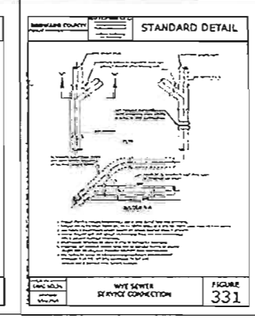


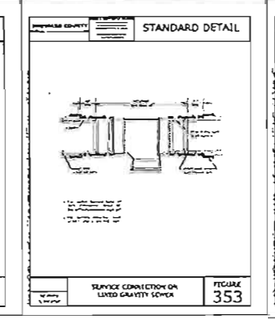


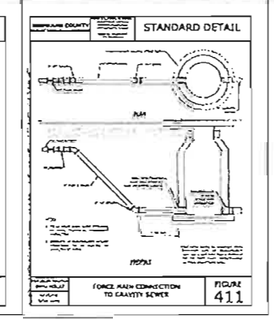


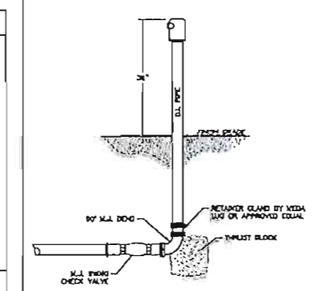




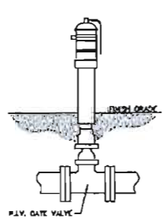








FIRE DEPT. CONNECTION (FDC)
NTS



POST INDICATOR VALVE (PIV)
NTS

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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2018 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

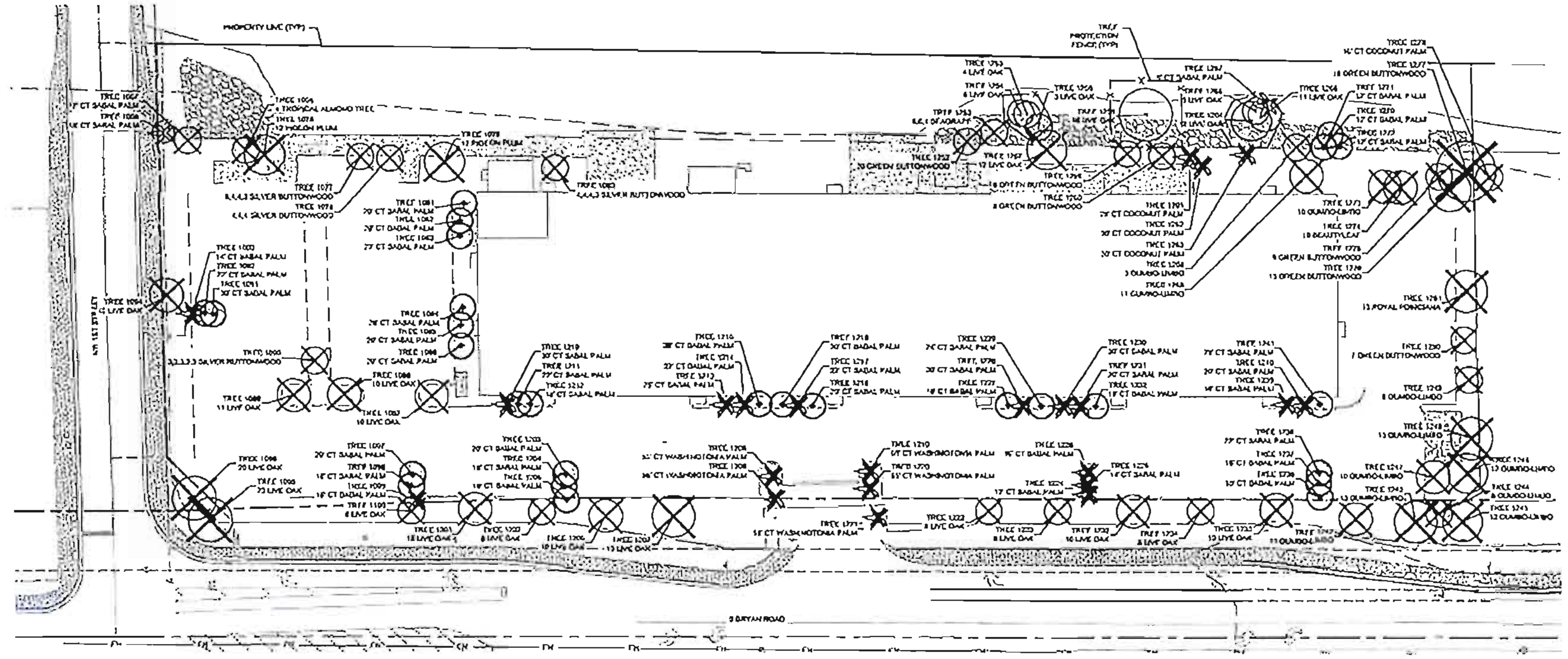
PROFESSIONAL ENGINEER

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

UTILITY DETAILS

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-404



LEGEND
- TREE TO REMAIN
- TREE TO REMOVE
- TREE TO BE RELOCATED
- PALM TO REMOVE
- PALM TO REMAIN

Tree #	Species	Size (DBH)	CTLA Condition Assessment	Notes	Specimen Status	Specimen Appraised Tree Value	Canopy SF	Action
1066	Sabal palm	18' CT (14" DBH)	Excellent		X	$1,350.00	100	REMAIN
1067	Sabal palm	7' CT (11" DBH)	Excellent				105	REMOVE
1068	Tropical almond tree	4	Excellent	Invasive 2			115	REMOVE
1076	Pigeon plum	12	Fair				250	REMOVE
1077	Silver buttonwood	8,4,4,3	Fair				115	REMOVE
1078	Silver buttonwood	4,4,4	Fair				115	REMOVE
1079	Pigeon plum	12	Excellent				240	REMOVE
1080	Silver buttonwood	4,4,4,3	Fair				105	REMOVE
1081	Sabal palm	20' CT (11" DBH)	Excellent				105	RELOCATE
1082	Sabal palm	20' CT (11" DBH)	Excellent				105	RELOCATE
1083	Sabal palm	20' CT (11" DBH)	Excellent				105	RELOCATE
1084	Sabal palm	26' CT (11" DBH)	Excellent				105	RELOCATE
1085	Sabal palm	20' CT (11" DBH)	Excellent				105	RELOCATE
1086	Sabal palm	20' CT (11" DBH)	Excellent				105	RELOCATE
1087	Live oak	10	Good				180	REMOVE
1088	Live oak	10	Fair				180	REMOVE
1089	Live oak	11	Good				135	REMOVE
1090	Silver buttonwood	1,1,1,1,1	Fair				115	REMOVE
1091	Sabal palm	30' CT (10" DBH)	Excellent				115	RELOCATE
1092	Sabal palm	22' CT (10" DBH)	Excellent				115	RELOCATE
1093	Sabal palm	14' CT (10" DBH)	Excellent				115	REMOVE
1094	Live oak	10	Good				175	REMOVE
1095	Live oak	23	Good		X	$9,112.50	820	REMOVE
1096	Live oak	20	Fair		X	$5,467.50	820	REMOVE
1097	Sabal palm	20' CT (10" DBH)	Excellent				110	RELOCATE
1098	Sabal palm	18' CT (10" DBH)	Excellent				110	RELOCATE
1099	Sabal palm	16' CT (10" DBH)	Excellent				110	REMOVE
1100	Live oak	8	Fair				110	REMOVE
1201	Live oak	10	Fair				185	REMOVE
1202	Live oak	8	Good				105	REMOVE
1203	Sabal palm	20' CT (10" DBH)	Excellent				105	RELOCATE
1204	Sabal palm	18' CT (10" DBH)	Excellent				105	RELOCATE
1205	Sabal palm	16' CT (10" DBH)	Excellent				105	RELOCATE
1206	Live oak	10	Good				170	REMOVE
1207	Live oak	13	Good				270	REMOVE
1208	Washingtonia palm	55' CT (10" DBH)	Excellent	Invasive 2			50	REMOVE
1209	Washingtonia palm	55' CT (10" DBH)	Excellent	Invasive 2			50	REMOVE
1210	Sabal palm	30' CT (10" DBH)	Good				50	REMOVE
1211	Sabal palm	22' CT (10" DBH)	Excellent				100	RELOCATE
1212	Sabal palm	18' CT (10" DBH)	Good				100	RELOCATE
1213	Sabal palm	25' CT (10" DBH)	Excellent				50	REMOVE
1214	Sabal palm	22' CT (10" DBH)	Excellent				50	REMOVE
1215	Sabal palm	28' CT (10" DBH)	Excellent				100	RELOCATE
1216	Sabal palm	30' CT (11" DBH)	Excellent				100	RELOCATE
1217	Sabal palm	22' CT (11" DBH)	Excellent				100	REMOVE
1218	Sabal palm	20' CT (11" DBH)	Excellent				100	RELOCATE
1219	Washingtonia palm	55' CT (10" DBH)	Excellent	Invasive 2			50	REMOVE
1220	Washingtonia palm	55' CT (10" DBH)	Excellent	Invasive 2			50	REMOVE
1221	Washingtonia palm	55' CT (10" DBH)	Good	Invasive 2			50	REMOVE
1222	Live oak	8	Good				105	REMOVE
1223	Live oak	8	Fair				105	REMOVE
1224	Sabal palm	17' CT (11" DBH)	Excellent				100	REMOVE
1225	Sabal palm	14' CT (10" DBH)	Excellent				100	REMOVE
1226	Sabal palm	16' CT (10" DBH)	Good				50	REMOVE

1227	Sabal palm	18' CT (10" DBH)	Excellent				100	RELOCATE
1228	Sabal palm	20' CT (10" DBH)	Excellent				100	REMOVE
1229	Sabal palm	24' CT (10" DBH)	Excellent				100	RELOCATE
1230	Sabal palm	30' CT (10" DBH)	Excellent				100	RELOCATE
1231	Sabal palm	20' CT (10" DBH)	Excellent				100	REMOVE
1232	Sabal palm	18' CT (10" DBH)	Excellent				100	REMOVE
1233	Live oak	10	Good				175	REMOVE
1234	Live oak	8	Fair				100	REMOVE
1235	Live oak	10	Good				170	REMOVE
1236	Sabal palm	16' CT (9" DBH)	Excellent				115	RELOCATE
1237	Sabal palm	16' CT (10" DBH)	Excellent				115	RELOCATE
1238	Sabal palm	22' CT (10" DBH)	Good				115	RELOCATE
1239	Sabal palm	16' CT (10" DBH)	Excellent				100	REMOVE
1240	Sabal palm	20' CT (10" DBH)	Excellent				115	REMOVE
1241	Sabal palm	28' CT (10" DBH)	Excellent				115	RELOCATE
1242	Gumbo-limbo	11	Good				150	REMOVE
1243	Gumbo-limbo	13	Excellent				280	REMOVE
1244	Gumbo-limbo	8	Excellent				100	REMOVE
1245	Gumbo-limbo	12	Excellent				250	REMOVE
1246	Gumbo-limbo	12	Excellent				250	REMOVE
1247	Gumbo-limbo	10	Fair				160	REMOVE
1248	Gumbo-limbo	13	Good				250	REMOVE
1249	Gumbo-limbo	8	Good				100	REMOVE
1250	Green buttonwood	7	Fair				100	REMOVE
1251	Royal poinciana	13	Fair	Ganoderma fungus on trunk and lower limbs			270	REMOVE
1252	Green buttonwood	20	Fair		X	$911.25	120	REMOVE
1253	Seagrape	6,6,4	Fair				120	REMOVE
1254	Live oak	6	Good				100	REMAIN
1255	Live oak	4	Good				100	REMAIN
1256	Live oak	3	Good				100	REMAIN
1257	Live oak	12	Fair				240	REMOVE
1258	Live oak	16	Fair				420	REMAIN
1259	Green buttonwood	8	Fair				105	REMOVE
1260	Green buttonwood	8	Fair				105	REMOVE
1261	Coconut palm	25' CT (9" DBH)	Excellent	Invasive 2			100	REMOVE
1262	Coconut palm	30' CT (9" DBH)	Excellent	Invasive 2			100	REMOVE
1263	Coconut palm	30' CT (9" DBH)	Excellent	Invasive 2			50	REMOVE
1264	Live oak	12	Good				270	REMAIN
1265	Live oak	5	Good				1150	REMAIN
1266	Live oak	11	Good				175	REMAIN
1267	Sabal palm	6' CT (13" DBH)	Excellent		X	$168.75	50	REMAIN
1268	Gumbo-limbo	3	Excellent				105	REMOVE
1269	Gumbo-limbo	11	Fair				100	REMOVE
1270	Sabal palm	12' CT (13" DBH)	Excellent		X	$84.45	100	RELOCATE
1271	Sabal palm	12' CT (13" DBH)	Excellent		X	$168.75	100	RELOCATE
1272	Sabal palm	12' CT (13" DBH)	Excellent		X	$84.38	100	RELOCATE
1273	Gumbo-limbo	10	Fair				175	REMOVE
1274	Beautyleaf	10	Good				100	REMOVE
1275	Green buttonwood	9	Good				270	REMOVE
1276	Green buttonwood	13	Fair				570	REMOVE
1277	Green buttonwood	18	Good		X	$1,518.75	115	REMOVE
1278	Coconut palm	10' CT (9" DBH)	Excellent	Invasive 2			115	REMOVE

90 Wave

Total Non Invasive Canopy Removed	9835
Total Non Invasive Canopy Removed (w/ 1.5 Mult.)	14753
Total Category 2 Invasive Canopy Removed (w/ 1 Mult.)	730
Total Category 3 Invasive Canopy Removed	0
Total Category 3 Invasive Canopy Removed (w/ .25 Mult.)	0
Total Canopy Removed (w/ Multipliers)	15483
Replacement Trees Required (100) SF Per Tree)	155
Replacement Trees Provided	13
Replacement Trees Deficient	142
Tree Trust Fund Payment ($338 per Deficient Tree)	$47,936.85

Specimen Trees Removed	4
Total Appraisal Value to be Paid for Removal	$17,010.00

* REPLACEMENT TREES BASED ON CATEGORY 3 TREE
** TREE TRUST FUND PAYMENT BASED ON COST OF STOCK CATEGORY 3 TREE ($125) MULTIPLIED BY 2.7

EPS CHECK TREE APPRAISAL CALCULATION:
APPRAISED TREE VALUE = PRICE OF REPLACEMENT TREE x 2.7 x SIZE FACTOR x HEALTH/CONDITION FACTOR x LOCATION SCORE

PRICE OF REPLACEMENT TREES:
CATEGORY 1A TREE: $600 (3.5" CAL. 12' HT. LIVE OAK)
PALM: $100 (6' CT. SABAL PALM)

Specimen Tree Calcs - 90 Wave

Tree #	Replacement Cost		Size Factor	Health Factor	Location Score	Location Compromised	Appraisal Value
1066	$ 100.00	2.7	2	1.25	2	No	$ 1,350.00
1095	$ 600.00	2.7	3	1.25	1.5	Yes	$ 9,112.50
1096	$ 600.00	2.7	3	0.75	1.5	Yes	$ 5,467.50
1252	$ 600.00	2.7	3	0.75	0.25	Yes	$ 911.25
1267	$ 100.00	2.7	1	1.25	0.5	No	$ 168.75
1270	$ 100.00	2.7	1	1.25	0.25	Yes	$ 84.38
1271	$ 100.00	2.7	1	1.25	0.5	No	$ 168.75
1272	$ 100.00	2.7	1	1.25	0.25	Yes	$ 84.38
1277	$ 600.00	2.7	3	1.25	0.25	Yes	$ 1,518.75

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

No.	REVISIONS	DATE	BY

Kimley»Horn

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Digitally signed by Matthew T Franko
Date: 2020.09.03 09:41:53 -04'00'
8/31/2020

KHA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY BLX
DRAWN BY BLX
CHECKED BY MTF

TREE MITIGATION PLAN - 90 WAVE

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L0.50

TREE MITIGATION SPECIFICATIONS

A. GENERAL

1. CONTRACTOR SHALL ADHERE TO ALL TREE PROTECTION REQUIREMENTS LISTED IN THESE SPECIFICATIONS AND OR THOSE LISTED IN THE CITY OR COUNTY ZONING CODE, TREE PROTECTION (LATEST EDITION). WHICHEVER IS MORE STRINGENT SHALL APPLY.
2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PROCEDURES WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
3. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATION MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE.
4. NO SIGNS, BUILDING PERMITS, WIRES OR OTHER ATTACHMENTS OF ANY KIND SHALL BE ATTACHED TO ANY TREE OR PALM. GUY WIRES DESIGNED TO PROTECT TREES ARE EXCLUDED FROM THIS PROHIBITION.
5. EXISTING TREE LOCATIONS AND SIZES ARE ESTIMATES AND ARE BASED ON A SURVEY PROVIDED BY THE OWNER SELECTED SURVEYOR.
6. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH PERMITTING AGENCY AND PROJECT ARBORIST PRIOR TO CONSTRUCTION. NO PERSON MAY REMOVE OR CAUSE TO BE REMOVED ANY PROTECTED TREE OR PALM WITHOUT FIRST HAVING PROCURED A PERMIT AS PROVIDED BY THE APPROPRIATE PERMITTING AGENCY.
7. FOR PROTECTED TREES OR PALMS BEING REMOVED, THE CONTRACTOR MUST GIVE THE PERMITTING AGENCY REASONABLE OPPORTUNITY TO RELOCATE TREES DESIGNATED FOR REMOVAL TO ANOTHER SITE AT THE PERMITTING AGENCY'S EXPENSE.
8. CONTRACTOR IS RESPONSIBLE FOR POSSESSING ALL REQUIRED APPLICATOR LICENSES, BUSINESS REGISTRATIONS AND INSURANCE, PESTICIDE LABELS, AND MATERIAL DATA SAFETY SHEETS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR HAVING ALL SPILL CONTAINMENT MATERIALS AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT FOR PESTICIDE APPLICATIONS AND ACCIDENTAL SPILLS ON SITE AT ALL TIMES. THE OWNER RESERVES THE RIGHT TO INSPECT EACH APPLICATOR AND HAVE THESE MATERIALS PRESENTED BEFORE AND DURING ANY PESTICIDE TREATMENT.
9. WHERE TRAFFIC AREAS ARE PROPOSED WITHIN THE DRIP LINE OF PROTECTED TREES AND LESS THAN FOUR (4) INCHES OF GRADE CHANGE ARE PROPOSED, PERMEABLE SURFACES THAT ALLOW AIR AND WATER INTO THE SOIL SHOULD BE USED IN LIEU OF ASPHALT OR OTHER SUCH IMPERVIOUS SURFACES.
10. TREE WELLS OF AN APPROVED DESIGN SHALL BE CONSTRUCTED AROUND ALL TREES TO BE PRESERVED WHEN MORE THAN FOUR INCHES OF FILL IS TO BE DEPOSITED WITHIN THE DRIP LINE AREA OF THOSE TREES. COORDINATE WITH PROJECT ARBORIST.
11. THE SEQUENCE OF TREE MITIGATION AND PRESERVATION MEASURES IS IMPERATIVE TO THE HEALTH AND SURVIVABILITY OF THE SUBJECT TREES AND SHALL BE COORDINATED WITH THE OWNER SELECTED PROJECT ARBORIST. THE DESIRED SEQUENCE IS OUTLINED BELOW:
    a. TREE PROTECTION FENCING.
    b. ROOT PRUNING AND ROOT BARRIERS.
    c. CLEARING.
    d. TREE CANOPY PRUNING.
    e. FERTILIZATION.
    f. INSECTICIDE.
    g. IRRIGATION.

B. TREE PROTECTION FENCING

1. PRIOR TO THE ERECTION OF ANY TREE PROTECTION FENCING, ALL FOREIGN SURFACE MATERIAL, TRASH OR DEBRIS SHALL BE REMOVED FROM THE AREA TO BE ENCLOSED BY THE FENCING. AFTER ERECTION OF THE FENCING NO SUCH MATERIAL OR LITTER SHALL BE PERMITTED TO REMAIN WITHIN THE PROTECTED AREA.
2. TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL PROTECTED TREES TO CREATE A PROTECTIVE ROOT ZONE AND SHALL REMAIN IN PLACE UNTIL SITE CLEARING, LAND ALTERATION, AND CONSTRUCTION ACTIVITIES ARE COMPLETE.
3. NATIVE GROUND COVER AND UNDERSTORY VEGETATION EXISTING WITHIN THE PROTECTED AREA SHALL REMAIN THROUGHOUT CONSTRUCTION. OTHER DESIGNATED VEGETATION AND INVASIVE PLANT SPECIES SHALL BE REMOVED ONLY BY MANUAL LABOR UTILIZING HAND TOOLS, OR BY OTHER METHODS APPROVED BY THE PROJECT ARBORIST.
4. TREE PROTECTION FENCING TYPES AND LOCATIONS SHALL BE ERECTED AS SHOWN ON THE TREE MITIGATION PLANS AND DETAILS, OR AS REQUESTED BY LOCAL AGENCY.
5. FINAL LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT ARBORIST.
6. NO MATERIALS, EQUIPMENT, SPOIL, WASTE OR WASHOUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN 20 FEET OF THE TREE PROTECTION ZONE.
7. EROSION CONTROL DEVICES SUCH AS SILT FENCING, DEBRIS BASINS, AND WATER DIVERSION STRUCTURES SHALL BE INSTALLED TO PREVENT SILTATION AND/OR EROSION WITHIN THE TREE PROTECTION ZONE.
8. CONSTRUCTION ACTIVITY SHALL NOT DESTROY OR IRREVERSIBLY HARM THE ROOT SYSTEM OF PROTECTED TREES. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
9. DO NOT INSTALL CONDUIT, DRAIN OR IRRIGATION LINES, OR ANY UTILITY LINE WITHIN THE TREE PROTECTION ZONE WITHOUT THE APPROVAL OF THE PROJECT ARBORIST. IF LINES MUST TRAVERSE THE PROTECTION AREA, THEY SHALL BE TUNNELED OR BORED UNDER THE TREE.
10. CONTRACTOR'S ACCESS TO FENCED TREE PROTECTION AREAS WILL BE PERMITTED ONLY WITH APPROVAL OF THE PROJECT ARBORIST.
11. EXCAVATION OR GRADING REQUIRED WITHIN THE PROTECTED AREA SHALL BE LIMITED TO THREE (3) INCHES OF CUT OR FILL. COORDINATE WITH PROJECT ARBORIST.
12. STRUCTURES AND UNDERGROUND FEATURES TO BE REMOVED WITHIN THE TREE PROTECTION ZONE SHALL BE COORDINATED WITH THE PROJECT ARBORIST.
13. TREE PROTECTION FENCING AROUND TREES TO BE RELOCATED SHALL BE ERECTED UNTIL THE TREE IS READY TO BE RELOCATED AND NEW FENCING SHALL BE ERECTED AT THE TREE'S NEW LOCATION AND WILL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE.
14. IF ANY DAMAGE TO TREE PROTECTION FENCING SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIRS.
15. IF TEMPORARY HAUL OR ACCESS ROADS MUST PASS OVER THE PROTECTED AREA OF TREES TO BE PRESERVED, A ROAD BED OF SIX (6) INCHES OF MULCH OR GRAVEL SHALL BE CREATED TO PROTECT THE SOIL. THE ROAD BED MATERIAL SHALL BE REPLENISHED AS NECESSARY TO MAINTAIN A SIX (6) INCH ROAD BED AT ALL TIMES. CONTRACTOR SHALL REMOVE ALL SUCH MATERIALS FROM THE SITE AS SOON AS TEMPORARY ACCESS IS NO LONGER NECESSARY.
16. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST PRIOR TO THE REMOVAL OF ALL TREE PROTECTION FENCING.

C. ROOT PRUNING/TRENCHING

1. TRENCHING LOCATIONS SHALL BE APPROVED IN THE FIELD BY THE PROJECT ARBORIST.
2. TRENCHING EQUIPMENT THAT WILL TURN AT HIGH RPM'S IS PREFERRED, AND SHALL BE APPROVED BY THE PROJECT ARBORIST. APPROVED EQUIPMENT WILL BE USED TO PERFORM ALL ROOT PRUNING OPERATIONS. A MAXIMUM DEPTH OF THREE FEET IS REQUIRED.
3. INSTALL ROOT BARRIERS WHERE DESIGNATED, SEE TREE MITIGATION PLAN AND DETAIL SHEETS.
4. THE TRENCH SHALL BE BACKFILLED WITH PREVIOUSLY EXCAVATED SOIL AND COMPACTED IMMEDIATELY.
5. TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF TWELVE (12) WEEKS PRIOR TO TREE RELOCATION.
6. WHEN THE TREE ROOT ZONE WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS.

D. CLEARING

1. ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPLISHED WITH HAND-OPERATED EQUIPMENT.
2. CONTRACTOR SHALL CLEAR ALL TREE PROTECTION AREAS OF VINES, SHRUBS, GROUND COVERS, WEEDS, SAPLINGS, AND INVASIVES LISTED ON THE LATEST EDITION OF THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF INVASIVE SPECIES.
3. PROJECT ARBORIST MUST APPROVE METHODS OTHER THAN HAND CLEARING.
4. A TWO (2) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES DURING THE SITE CLEARING PHASE.

E. TREE CANOPY PRUNING

1. TREE PRUNING SPECIFICATIONS SHALL BE DEFINED BASED ON SPECIFIC RECOMMENDATIONS OF THE PROJECT ARBORIST. INFORMATION PRESENTED BELOW SHOULD BE USED AS A GUIDELINE.
2. CONTRACTOR SHALL VISIT THE SITE WITH THE PROJECT ARBORIST TO VERIFY THE EXTENT OF REQUIRED PRUNING.
3. ALL PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST OR AN AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA) REGISTERED CONSULTING ARBORIST (RCA).
4. AT LEAST ONE MEMBER OF THE PRUNING CREW SHALL BE AN ISA CERTIFIED ARBORIST.
5. WHILE IN THE TREE, THE ARBORIST SHALL PERFORM AN AERIAL INSPECTION TO IDENTIFY DEFECTS THAT REQUIRE TREATMENT. ANY ADDITIONAL WORK NEEDED SHALL BE REPORTED TO THE OWNER.
6. PRUNING CUTS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI A300 PRUNING STANDARD (AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS) AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI Z133.1 SAFETY STANDARD. PRUNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ISA'S "BEST MANAGEMENT PRACTICES: TREE PRUNING".
7. WHERE TEMPORARY CLEARANCE IS NEEDED FOR ACCESS, BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE.
8. NO MORE THAN 20 PERCENT OF LIVE FOLIAGE SHALL BE REMOVED WITHIN ANY TREE.
9. ALL TREES WITHIN THE PROJECT AREA SHALL BE PRUNED AS FOLLOWS:
    a. LIVE BRANCH PRUNING SHOULD BE PERFORMED ONLY WHEN THE DANGER OF INSECT OR DISEASE INFESTATION IS NOT PRESENT.
    b. REMOVE STUBS, CUTTING OUTSIDE THE WOUND WOOD TISSUE THAT HAS FORMED AROUND THE BRANCH.
    c. CLEANING, FOR THE SELECTIVE REMOVAL OF DEAD, DISEASED, BROKEN, OR CROSSING BRANCHES DOWN TO ONE INCH IN DIAMETER OR AS DIRECTED BY THE PROJECT ARBORIST.
    d. PRUNING CUTS LARGER THAN 4 INCHES IN DIAMETER, EXCEPT FOR DEAD WOOD, SHALL BE AVOIDED.
    e. PRUNING CUTS THAT EXPOSE HEARTWOOD SHALL BE AVOIDED WHENEVER POSSIBLE.
    f. ALL TREES WITH CROWNS THAT PROJECT INTO PARKING LOT/ROADWAY AREAS SHALL BE RAISED TO 14 FEET ABOVE FINISHED GRADE.
    g. ALL TREES WITH CROWNS THAT PROJECT INTO SIDEWALK AREAS SHALL BE RAISED TO A HEIGHT OF 8 FEET ABOVE FINISHED GRADE.
10. TREES WHOSE ROOT SYSTEMS WILL BE IMPACTED SHALL RECEIVE THE FOLLOWING PRUNING TO COMPENSATE FOR ROOT LOSS:
    a. THE LOCATION AND SIZE OF BRANCHES FOR REDUCTION SHALL BE DEFINED BY THE PROJECT ARBORIST.
    b. REDUCTION, OR THE SELECTIVE PRUNING TO REDUCE TREE HEIGHT OR SPREAD.
    c. REDUCE END WEIGHT ON HEAVY, HORIZONTAL BRANCHES BY SELECTIVELY REMOVING SMALL DIAMETER BRANCHES, NO GREATER THAN 2 TO 3 INCHES, NEAR THE ENDS OF SCAFFOLD BRANCHES.
    d. RAISING SHALL CONSIST OF SELECTIVE PRUNING TO PROVIDE VERTICAL CLEARANCE.
11. PROPOSED REPLACEMENT TREES
    a. PRUNING SHALL BE LIMITED TO CLEANING.
12. BRUSH SHALL BE CHIPPED AND SPREAD (ONLY WHEN DISEASE OR INSECT INFESTATION IS NOT PRESENT) UNDERNEATH TREES WITHIN THE TREE PROTECTION ZONE TO A MAXIMUM DEPTH OF THREE (3) INCHES, LEAVING THE TRUNK CLEAR OF MULCH.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXCESS DEBRIS ON A DAILY BASIS.

F. FERTILIZATION

1. CONTRACTOR SHALL COORDINATE FERTILIZATION PLAN, FOLLOWING BEST MANAGEMENT PRACTICES WITH THE PROJECT ARBORIST PRIOR TO COMMENCEMENT OF WORK.
2. EVERY EFFORT SHALL BE MADE TO UTILIZE CHEMICALS OF AN ORGANIC OR BIODEGRADABLE NATURE IN ORDER TO HAVE THE LEAST IMPACT TO THE NATURAL ENVIRONMENT. CONTRACTOR IS RESPONSIBLE FOR MIXING, APPLYING, AND DISPOSAL OF ALL CHEMICALS IN ACCORDANCE WITH STRICT ADHERENCE TO MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.
3. ONLY TREES AFFECTED BY CONSTRUCTION OR AS SHOWN ON THE TREE MITIGATION PLAN AND TREE INVENTORY SCHEDULE SHALL BE TREATED.
4. TREES SPECIFIED TO RECEIVE FERTILIZER SHALL BE TREATED AS FOLLOWS:
    a. MIX FERTILIZER ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO A TANK WITH AGITATION CAPABILITY.
    b. MIX WETTING AGENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO SAME TANK WITH FERTILIZER. AGITATE MIX.
    c. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 8-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.
    d. THE CRITICAL ROOT ZONE AREA PLUS 2' BEYOND THE CRITICAL ROOT ZONE SHALL BE INJECTED, BUT NOT BEYOND ROOT PRUNING LOCATIONS.
    e. FERTILIZER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ANY AERATION SYSTEMS.
    f. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY THE PROJECT ARBORIST PRIOR TO DISPOSAL.
5. TRANSPLANT INOCULANT & BIOSTIMULANT.
    a. CONTRACTOR SHALL PROVIDE MYCORRHIZAL TRANSPLANT INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. MIX INOCULANT IN 10" WIDE TOPSOIL RING AROUND THE ROOT BALL.
    b. CONTRACTOR SHALL PROVIDE INJECTABLE MYCORRHIZAL INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. AGITATE FOR 10 MINUTES.
    c. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 8-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.
    d. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY PROJECT ARBORIST PRIOR TO DISPOSAL.
6. TRANSPLANT MAINTENANCE
    a. APPROXIMATELY ONE YEAR AFTER PLANTING, THE CONTRACTOR SHALL RE-TREAT ALL TRANSPLANTS UTILIZING THE SAME PROCEDURES ABOVE.

G. INSECTICIDE

1. NOTIFY PROJECT ARBORIST IF ANY INFESTATION IS NOTICED.
2. FOLLOW PROJECT ARBORIST'S RECOMMENDED PROCEDURES.
3. FOLLOW ALL MANUFACTURER RECOMMENDATIONS CONCERNING APPLICATION. READ ALL WARNING LABELS.
4. ANY PETS, AS WELL AS THE PETS FOOD AND WATER BOWLS SHOULD BE REMOVED FROM THE AREA AND ANY SWIMMING POOLS SHOULD BE COVERED. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.
5. ENSURE COMPLETE COVERAGE AND REAPPLY 3-5 MONTHS AFTER INITIAL APPLICATION UTILIZING SAME PROCEDURE.

H. IRRIGATION

1. EVERY EFFORT SHALL BE MADE TO WATER THE PRESERVED TREES AND TRANSPLANTS. CONTRACTOR SHALL IRRIGATE BY HAND OR BY TEMPORARY IRRIGATION.
2. IRRIGATE AS REQUIRED BY PROJECT ARBORIST UNTIL PERMANENT IRRIGATION IS INSTALLED AND OPERATING.
3. UNDERGROUND IRRIGATION SHALL NOT BE INSTALLED WITHIN THE DRIP LINES OF EXISTING TREES UNLESS ROOT PROTECTION MEASURES ARE PROVIDED AND APPROVED BY PROJECT ARBORIST.

I. TREE REMOVALS

1. PRIOR TO AND DURING LAND CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY PROJECT ARBORIST WITH RED SURVEY RIBBONS AT 36 INCHES MINIMUM ABOVE GRADE.
2. CONTRACTOR SHALL REMOVE ALL TREES AS SHOWN ON THE TREE MITIGATION PLANS AFTER THE TREE PROTECTION FENCING IS INSTALLED.
3. ALL TREES SHOWN TO BE REMOVED SHALL BE FELLED WITH A CHAIN SAW AND STUMP GROUND 6" BELOW SURFACE. ANY TREE SHOWN TO BE REMOVED THAT IS IN AN AREA WHERE COMPACTION IS CRITICAL SHALL BE FELLED WITH A CHAIN SAW AND STUMP REMOVED BY CONTRACTOR.
4. ALL WOOD AND STUMPS FROM REMOVALS SHALL BE HAULED FROM THE SITE THE SAME DAY, EXCEPT FOR TOPS. ALL TOPS ARE TO BE MULCHED AND STOCKPILED OR HAULED DIRECTLY TO MULCHED AREAS FOR RELOCATED TREES IF SCHEDULING PERMITS. TOPS SHALL BE CHIPPED AND PLACED IN THE TREE PROTECTION ZONE TO A DEPTH OF THREE (3) INCHES. ALL EXCESS WOOD CHIPS SHOULD BE HAULED OFF SITE AFTER TRANSPLANTING IS COMPLETE.
5. ALL BURN PITS IF APPLICABLE MUST BE APPROVED BY THE PROJECT ARBORIST AND OWNER.
6. TREES TO BE REMOVED THAT HAVE BRANCHES EXTENDING INTO THE CANOPY OF TREES TO REMAIN MUST BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST AND NOT BY DEMOLITION OR CONSTRUCTION CONTRACTORS. THE QUALIFIED ARBORIST SHALL REMOVE THE TREE IN A MANNER THAT CAUSES NO DAMAGE TO THE TREES AND UNDERSTORY VEGETATION TO REMAIN.
7. TREES TO BE REMOVED LOCATED WITHIN THE TREE PROTECTION ZONE SHALL BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST. THE TREES SHALL BE CUT NEAR GROUND LEVEL AND THE STUMP GROUND OUT.

J. MACHINE DUG TRANSPLANTING

1. DIG TRANSPLANT RECEIVING HOLE.
2. SET SPADE DUG ROOT BALL INTO RECEIVING HOLE 4"-6" ABOVE EXISTING GRADE.
3. WASH SAND OR TOPSOIL INTO AIR POCKETS BETWEEN ROOT BALL AND RECEIVING HOLE.
4. INSTALL TOPSOIL RING, 4" HIGH, 10" WIDE, AROUND PERIMETER OF ROOT BALL. MIX MYCORRHIZAL TRANSPLANT INOCULANT INTO TOPSOIL RING PER MANUFACTURER'S SPECIFICATIONS.
5. INSTALL THREE INCHES OF MULCH FROM PERIMETER OF ROOT BALL TO WITHIN 6" OF TREE TRUNK.
6. COVER TOPSOIL RING WITH 3" OF MULCH AND EXTEND MULCH 3'-6" DEEP, AWAY FROM PERIMETER OF ROOT BALL.
7. WATER TRANSPLANT.

K. HOLDING AREA FOR TRANSPLANTS

1. HOLDING AREAS SHOULD NOT BE NECESSARY. CONSTRUCTION PHASING SHOULD BE IMPLEMENTED SO THAT TREES ARE IMMEDIATELY RELOCATED TO THEIR PERMANENT LOCATION. COORDINATE WITH PROJECT ARBORIST AS NEEDED.
2. SHOULD A HOLDING AREA BE NECESSARY, TREE PROTECTION FENCING SHALL BE INSTALLED AT THE PERIMETER OF THE ENTIRE AREA.
3. CONTRACTOR SHALL COORDINATE LOCATION AND SPECIFICATIONS OF THE HOLDING AREA WITH PROJECT ARBORIST.
4. CONTRACTOR SHALL SUPPLY TEMPORARY IRRIGATION TO THE HOLDING AREA CONSISTING OF ABOVE GROUND PVC OR POLYETHYLENE PIPE, SPRAY OR ROTOR HEADS (WITH HEAD TO HEAD COVERAGE) AND A CONTROLLER. COORDINATE WITH PROJECT ARBORIST FOR CONTROLLER SETTINGS AND ALTERNATIVE WATERING METHODS.

L. TOPSOIL

1. CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATIONS WITHIN TREE PROTECTION AREAS WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
2. ALL TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH.
3. TOPSOIL, PH RANGE OF 5.5 TO 7.0, 3-5 PERCENT ORGANIC MATERIAL MINIMUM, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STONES LARGER THAN ONE (1) INCH IN DIAMETER, STUMPS, ROOTS, TRASH, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH.
4. VERIFY AMOUNT STOCKPILED IF ANY, AND SUPPLY ADDITIONAL AS NEEDED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST FOUR (4) INCHES DEEP. DO NOT OBTAIN TOPSOIL FROM BOGS OR MARSHES.
5. PROJECT ARBORIST SHALL APPROVE ALL TOPSOIL PRIOR TO PLACEMENT.

M. REPAIR OF DAMAGED TREES

1. IF DAMAGE TO ANY TREE SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE DURING THE CONSTRUCTION PERIOD, THE PROJECT ARBORIST SHALL APPRAISE THE DAMAGE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPAIR BY THE CONTRACTOR.
2. IF ANY TREE DESIGNATED TO BE SAVED IS REMOVED FROM THE SITE WITHOUT PERMISSION OF THE OWNER'S REPRESENTATIVE, THE PROJECT ARBORIST SHALL APPRAISE THE TREE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPLACEMENT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE TREE AND ANY FEES THAT MAY BE ASSESSED TO THE OWNER BY THE GOVERNING AGENCY.

1 / L0.51 TYPICAL TREE MITIGATION NOTES

No.	REVISIONS	DATE	BY

Kimley»Horn

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STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT MATTHEW TATIONA FRANKO LA6667??? (seal)

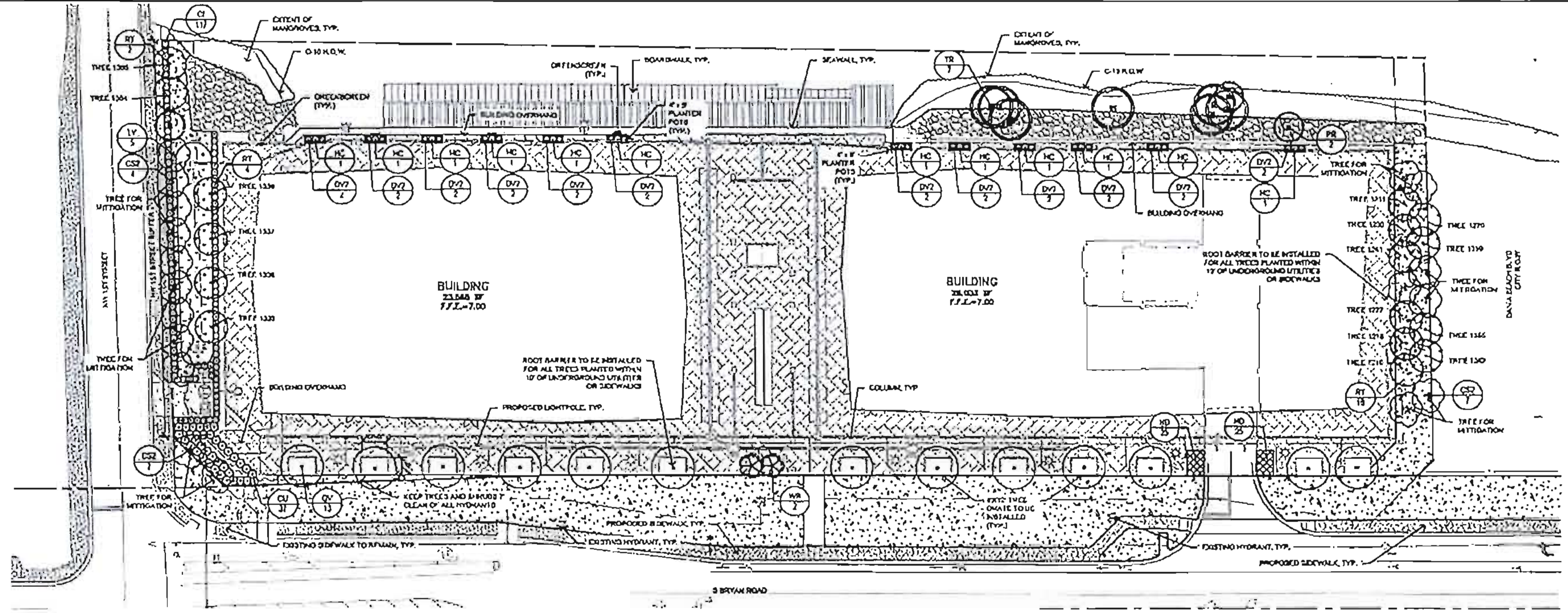
Digitally signed by Matthew T Franko
Date: 2020.09.03 09:46:15 -04'00'
Date 8/31/2020

KHA PROJECT	147706000
DATE	01/24/2020
SCALE	AS SHOWN
DESIGNED BY	BLN
DRAWN BY	BLN
CHECKED BY	MTF

TREE MITIGATION SPECIFICATIONS

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L0.51



CITY OF DANIA BEACH LANDSCAPE NOTES

1. A PRE-CONSTRUCTION MEETING WITH THE DANIA BEACH CITY ARBORIST IS REQUIRED PRIOR TO LANDSCAPING ACTIVITIES INCLUDING REMOVAL OF TREES AND/OR INSTALLATION OF PLANT MATERIAL. CALL 954-924-6800 A MINIMUM OF 5 DAYS PRIOR TO DESIRED START DATE TO SCHEDULE PRE-CONSTRUCTION MEETING.
2. ALL EXISTING TREES PROPOSED TO REMAIN ARE TO BE SEPARATED FROM THE LIMITS OF DISTURBANCE OF THE CONSTRUCTION AREA BY TREE PROTECTION FENCING AND SIGNAGE. THE TREE PROTECTION FENCING SHALL BE LOCATED AT THE EDGE OF THE TREE PROTECTION ZONE AS DEPICTED ON THE PLAN OR AT THE EDGE OF THE DRIPLINE IF A TREE PROTECTION ZONE IS NOT DESIGNATED. NO MATERIAL STORAGE OR CONSTRUCTION ACTIVITIES PERMITTED WITHIN THE TREE PROTECTION ZONE.
3. ALL EXISTING TREES SHALL BE PRUNED TO ANSI A-300 STANDARDS TO CORRECT POTENTIAL HAZARDS.
4. A TREE REMOVAL PERMIT IS REQUIRED PRIOR TO REMOVAL OR RELOCATION OF ANY TREE OR PALM. CONTACT THE DANIA BEACH CITY ARBORIST AT 954-924-6800 TO OBTAIN PERMIT INFORMATION.
5. LANDSCAPE CONTRACTOR SHALL NOTIFY SUNSHINE ONE CALL OF FLORIDA, INC. AT 1-800-432-4770 A MINIMUM OF 2 FULL BUSINESS DAYS PRIOR TO DIGGING. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR AVOIDING DAMAGE TO UTILITIES FROM PLANT INSTALLATION.
6. TREE RELOCATIONS.
   A. EXISTING TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF 120 DAYS PRIOR TO RELOCATION.
   B. MINIMUM ROOT BALL SIZES SHALL BE IN ACCORDANCE WITH ANSI STANDARDS AS FOLLOWS:

CALIPER	MINIMUM ROOT BALL DIAMETER
1	16
2	24
3	32
4	42
5	54
6	60
7	70
8	80
> 8	12 INCHES PER INCH OF TRUNK DIAMETER

   TRANSPLANTED TREES WITH UNDERSIZED ROOT BALLS MAY BE REJECTED BY THE CITY ARBORIST AND REPLACEMENT TREES MAY BE REQUIRED.
   C. A TEMPORARY IRRIGATION SYSTEM SHALL BE PROVIDED DURING AND FOR THE FIRST 40 DAYS AFTER ROOT PRUNING.
7. ALL PLANTING MUST FOLLOW PLANTING SPECIFICATIONS AND DETAILS SHOWN ON THE PLAN.
8. SUBSTITUTIONS OF PLANT SPECIES OR SPECIFICATIONS MUST BE APPROVED IN WRITING BY THE DANIA BEACH CITY ARBORIST PRIOR TO USE.
9. ALL PLANT MATERIAL PLANTED PER THIS LANDSCAPE PLAN SHALL BE FLORIDA GRADE #1 OR BETTER, AS SPECIFIED IN THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF AGRICULTURE'S GRADES AND STANDARDS FOR NURSERY PLANTS. DAMAGED PLANT MATERIAL SHALL BE REJECTED AND REPLACED PRIOR TO INSTALLATION.
10. ALL SIZES SHOWN FOR PLANT MATERIAL ARE TO BE CONSIDERED MINIMUMS.
11. WHERE QUANTITIES AND/OR SPECIES DIFFER BETWEEN THE PLANTING PLANS AND PLANT LISTS, THE PLANS SHALL TAKE PRECEDENCE.
12. ALL NEW PLANT MATERIAL SHALL BE WARRANTED BY THE LANDSCAPE CONTRACTOR FOR A MINIMUM PERIOD OF ONE YEAR. THE WARRANTEE PERIOD SHALL BEGIN AFTER ACCEPTANCE OF THE PLANTS BY THE CITY ARBORIST.
13. ALL PLANT BEDS TO BE TREATED WITH PRE-EMERGENT HERBICIDE PRIOR TO PLANTING.
14. ALL TREE AND PALM STAKING AND SUPPORT SHALL BE REMOVED ONE YEAR AFTER INSTALLATION.
15. NO FERTILIZER SHALL BE APPLIED TO NEWLY PLANTED TREES AND PALMS.
16. ALL LANDSCAPE MATERIAL SHALL BE THOROUGHLY WATERED AT THE TIME OF PLANTING. NO DRY PLANTING PERMITTED.
17. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY WATER PROVISIONS UNTIL SUCH TIME AS THE IRRIGATION SYSTEM IS OPERATIONAL.
18. ALL WIRE GUYS AND/OR FABRIC STRAPS SHALL BE FLAGGED WITH FLORESCENT COLORED TAPE.
19. MULCHING:
   A. ALL LANDSCAPE AREAS NOT COVERED BY SOD SHALL BE COVERED BY A MINIMUM 3-INCH LAYER OF MULCH.
   B. A MULCH RING WITH A MINIMUM RADIUS OF 24 INCHES (48 INCH DIAMETER) IS REQUIRED AROUND ALL NEWLY INSTALLED TREES AND PALMS.
   C. CYPRESS MULCH SHALL NOT BE USED.
20. ALL NEW LANDSCAPED AREAS SHALL BE EXCAVATED DOWN TO A DEPTH OF 36 INCHES BELOW FINAL GRADE AND BACK FILLED WITH CLEAN DEBRIS FREE SOIL. CONSTRUCTION ACCESS SHALL BE RESTRICTED FROM THE LANDSCAPE AREA AFTER EXCAVATION AND BACKFILL IS COMPLETE.
21. ALL LANDSCAPE AREAS SHALL BE FINISH GRADED SUCH THAT THEY ARE A MINIMUM OF 3.5 INCHES BELOW SURROUNDING PAVED SURFACES SO AS NOT TO IMPEDE THE FLOW OF DRAINAGE INTO LANDSCAPED AREAS AND TO ALLOW FOR A 3-INCH MULCH LAYER.

LANDSCAPE NOTES

1. ALL LANDSCAPE MATERIAL TO BE FLORIDA GRADE #1 OR BETTER QUALITY.
2. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL.
3. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
4. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
6. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA TO PROTECT ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT CONDITIONS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE WARRANTY PERIOD.
11. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
12. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR THE WARRANTY PERIOD. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON.
13. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
14. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES, AND SHALL BE FLORIDA NO. 1 OR BETTER AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
15. ALL INVASIVE / EXOTIC SPECIES AND PROHIBITED TREE SPECIES SHALL BE REMOVED FROM SITE, INCLUDING ROOT BALLS TO THE EXTENT POSSIBLE WITH NO DAMAGE TO ADJACENT EXISTING TREES.
16. ALL LANDSCAPE AREAS WILL BE PROVIDED WITH PERMANENT AUTOMATIC IRRIGATION SYSTEM.
17. TREE SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE ONCE IT IS "ESTABLISHED" (AS APPROVED BY THE LANDSCAPE ARCHITECT).
18. ALL PLANT SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL PROCURE PLANT MATERIALS AND UPSIZE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION.

LANDSCAPE REQUIREMENTS		
CODE	REQUIRED	PROPOSED
DEVELOPMENT DESIGN GUIDELINES, LANDSCAPE DESIGN STANDARDS SEC. [illegible] PERIMETER BUFFER LANDSCAPE 5' WIDE LANDSCAPE BUFFER 1 TREE / 40 LF CONTINUOUS HEDGE ROW	NW 1ST STREET: 142 LF 5' WIDE 4 TREES	NW 1ST STREET: 142 LF 5' WIDE 5 UNDERSTORY TREES DUE TO OHU
DEVELOPMENT DESIGN GUIDELINES, LANDSCAPE DESIGN STANDARDS [illegible] DANIA BEACH BLVD 5' WIDE LANDSCAPE BUFFER 3 UNDERSTORY PALM TREES / 40 LF	DANIA BEACH R.O.W.: 165 LF 5' WIDE 13 UNDERSTORY PALMS	DANIA BEACH R.O.W. 5' WIDE 13 RELOCATED PALMS
STREETSCAPE PER MASTER DEVELOPMENT PLAN 8' WIDE SIDEWALK 1 CANOPY TREE / 35 LF	BRYAN ROAD FUTURE R.O.W. 515 LF OF SIDEWALK = 15 TREES	13 TREES 2 PALMS
BUFFER ALONG CANAL ADJACENT FROM [illegible] 15' WIDTH, 1 TREE AND 10 SHRUBS PER 50 LF	O-10 CANAL - 181 LF 3 TREES AND 15 SHRUBS	EXISTING BUFFER 36 SHRUBS 4 OVERLOOK/DECKS
TREE MITIGATION 1 TREE / 100 SF OF CANOPY REMOVED 15,443 SF REMOVED	155 CATEGORY 2 TREES	13 CATEGORY 2 TREES (142 TREES DEFICIENT @ $330 PER TREE = $47,304 TREE FUND PAYMENT)
DEVELOPMENT DESIGN GUIDELINES, LANDSCAPE DESIGN STANDARDS SEC. [illegible] 60% MATERIAL TO BE NATIVE	60% NATIVES	TREES: 69% NATIVE (21 / 26 PROPOSED) SHRUBS: 87% NATIVE (144/150) GROUND COVER: 100% NATIVE (60/60)

PLANT SCHEDULE NORTH

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	CS2	13	CONOCARPUS ERECTUS 'SERICEUS' MULTI-TRUNK, 3-TRUNK MIN, FULL, FL #1, NATIVE	SILVER BUTTONWOOD	FG	3" CAL TOT.	8' HT MIN
	LY	6	LAGERSTROEMIA X 'YUMA' SINGLE TRUNK STANDARD, 4' CT, FL #1, SPECIMEN QUALITY	CRAPE MYRTLE	FG	3" CAL MIN	10' HT., 4' SPR
	PR	3	EXISTING PALM TO REMAIN PROTECT AND PRESERVE; CONTRACTOR LIABLE FOR DAMAGE	EXISTING PALM TO REMAIN	EXISTING	-	-
	QV	13	QUERCUS VIRGINIANA STRAIGHT, FULL, SINGLE LEADER, 4.5' CT, FL #1, NATIVE	LIVE OAK	FG	4" CAL MIN	12' HT MIN
	RT	18	RELOCATED TREE FINAL LOCATION	RELOCATED TREE	EXISTING	-	-
	TR	7	EXISTING TREE TO REMAIN PROTECT AND PRESERVE; CONTRACTOR LIABLE FOR DAMAGE	EXISTING TREE TO REMAIN	EXISTING	-	-
PALM	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**	**SIZE**
	WR	2	WODYETIA BIFURCATA FULL, FL #1, CLOSELY MATCHING	FOXTAIL PALM	FG	-	12' CT
SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**	**SIZE**
	CI	117	CHRYSOBALANUS ICACO 'RED TIP' FULL, NATIVE	COCO PLUM	7 GAL	36" OC	24" FULL
	CU	37	COCCOLOBA UVIFERA FULL, NATIVE	SEA GRAPE	7 GAL	48" OC	30" FULL
	DV2	24	DIANELLA TASMANICA 'VARIEGATA' FULL	VARIEGATED FLAX LILY	3 GAL	-	20" FULL
	HC	17	HELICONIA ANGUSTA 'CHAL CHAMA' FULL	DWARF HELICONIA	3 GAL	-	24" FULL
GROUND COVERS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SIZE**	**SPACING**
	HD	50	HELIANTHUS DEBILIS FULL, NATIVE	DUNE SUNFLOWER	1 GAL	12" FULL	24" OC
	PN	1,000 SF	PASPALUM NOTATUM 'ARGENTINE' 100% WEED/DISEASE/PEST FREE	BAHIA GRASS	SOD	-	-
	SOD	19,865 SF	STENOTAPHRUM SECUNDATUM 'FLORITAM' LAID TIGHT, ROLLED, 100% INSECT/WEED/DISEASE/DEBRIS FREE	FLORITAM ST. AUGUSTINE SOD	SOD	-	-
MISC		**QTY**	**BOTANICAL/COMMON NAME**	**SPECIFICATIONS**			
MULCH		TBD	EUCALYPTUS MULCH	3" DEPTH MINIMUM, SHREDDED, FREE OF WEEDS/INVASIVE PLANT MATERIAL			

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

No.	REVISIONS	DATE	BY

Kimley»Horn

© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
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Digitally signed by Matthew Franko
Date: 2020.09.03 09:49:06 -04'00'
8/31/2020

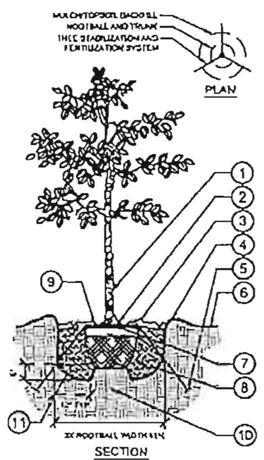
KHA PROJECT	DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY
147706000	01/24/2020	AS SHOWN	BLN	BLN	MTF

LANDSCAPE PLAN - 90 WAVE

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L1.00

1 TREE PLANTING
SECTION / PLAN — NTS



1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.
3. 3" MINIMUM MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 6' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. 4" HIGH BERM, FIRMLY COMPACTED.
5. TREE FROG ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. FINISHED GRADE. (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. TOP OF ROOTBALL SHALL BE 1" ABOVE FINISHED GRADE. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.

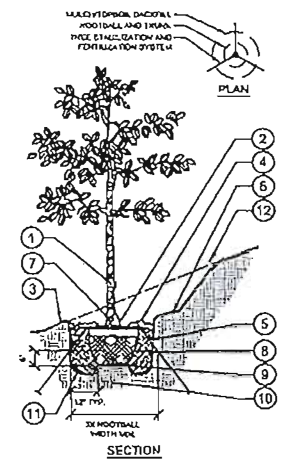
NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.

C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

2 TREE PLANTING ON A SLOPE
SECTION / PLAN — NTS



1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.
3. 3-4" HIGH BERM, FIRMLY COMPACTED.
4. 3" MINIMUM OF HARDWOOD BARK MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 6' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. TREE FROG ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE. (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.
12. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

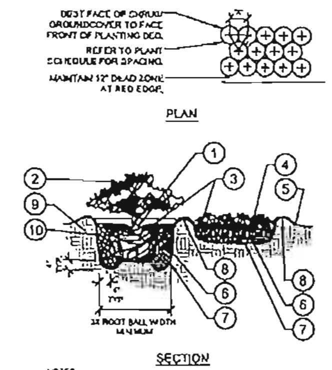
NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.

C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

3 SHRUB/GROUNDCOVER PLANTING
SECTION / PLAN — NTS



1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1"-2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS HEIGHT.
3. 3" MULCH LAYER AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES) NOTE: WHEN GROUNDCOVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY OF PLANTING PIT SIDES AND BOTTOM.
8. 4" HIGH BERM FIRMLY COMPACTED.
9. UNDISTURBED NATIVE SOIL.
10. FERTILIZER TABLETS (MAX 3" DEEP)

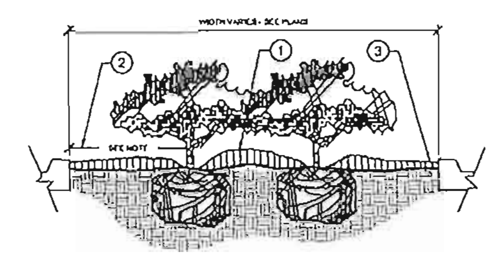
NOTES:

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS HEIGHT.

C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

4 PLANTED PARKING LOT ISLANDS/MEDIANS
SECTION — NTS



1. CROWN ISLANDS @ 3:1 SLOPE (OR AS SPECIFIED ON THE LANDSCAPE PLANS)
2. CLEAR ZONE: 24" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF, SEE PLANS.
3. 3" MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

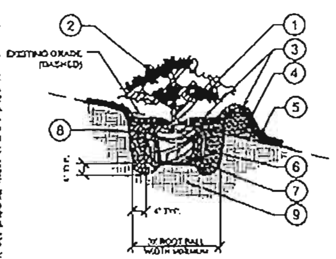
NOTES:

A. EXCAVATE A CONTINUOUS 24" DEEP PIT (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.

B. PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP.).

C. ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

5 SHRUB/GROUNDCOVER PLANTING ON A SLOPE
SECTION — NTS



1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1"-2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. PRUNE SHRUBS AS DIRECTED BY OWNER'S REPRESENTATIVE.
3. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE SHRUBS ARE PLACED IN MASSES, MULCH SHALL BE SPREAD IN A CONTINUOUS BED.
4. SOIL BERM TO HOLD WATER. TOP OF PLANTING PIT BERM TO BE LEVEL ACROSS PIT. SLOPE DOWNHILL PORTION OF BERM AS REQUIRED TO MEET EXISTING GRADE. MULCH OVER EXPOSED TOPSOIL.
5. FINISHED GRADE (SEE GRADING PLAN)
6. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES)
7. SCARIFY SIDES AND BOTTOM OF PLANTING PIT.
8. FERTILIZER TABLETS (MAX 3" DEEP).
9. UNDISTURBED NATIVE SOIL.

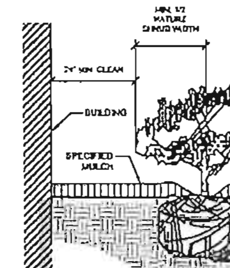
NOTES:

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS HEIGHT.

C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNER'S REPRESENTATIVE.

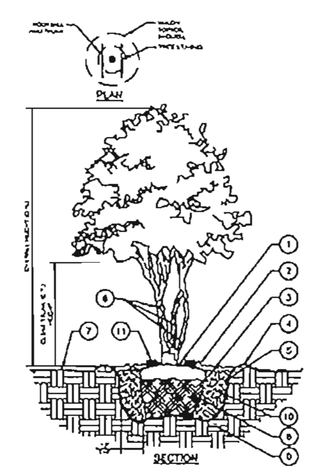
6 PLANTINGS ADJACENT TO BUILDINGS
SECTION — NTS



NOTES:

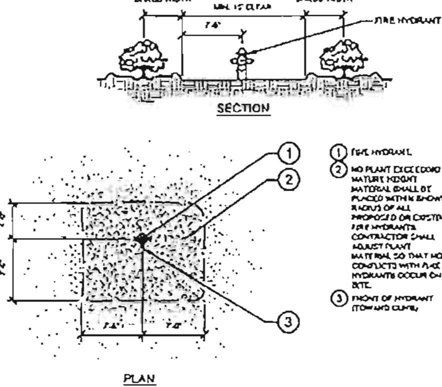
1. CLEAR ZONE: 24" MIN. FROM BUILDING TO CENTER OF NEAREST SHRUB.
2. INSTALL SPECIFIED MULCH 24" MIN. FROM BUILDING. SPECIFIED MULCH TO BE INSTALLED AT A DEPTH OF 3" (MIN.)

7 MULTI-TRUNK TREE PLANTING
SECTION/PLAN — NTS



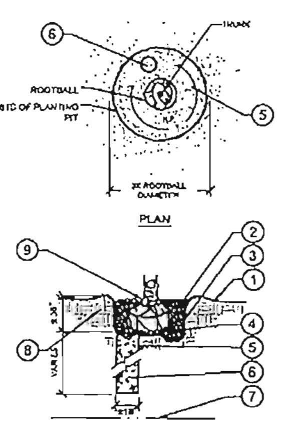
1. BASE OF TREE SHALL BE PLANTED SLIGHTLY ABOVE (1" MIN.) ADJACENT FINISH GRADE. REMOVE ALL TWINE & STRAPS & CUT BURLAP FROM TOP 1/3 OF ROOT BALL. NO SYNTHETIC BURLAP WILL BE ACCEPTED.
2. 4" SHREDDED HARDWOOD MULCH OR APPROVED EQUAL.
3. DIAMETER OF TREE PIT TO BE TWICE THE DIAMETER OF ROOT BALL-ROUGHEN SIDES OF TREE PIT.
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. TOPSOIL MIX BACKFILL.
6. TREE WRAP.
7. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
8. ROOT BALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOT BALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
9. UNDISTURBED SUBSOIL.
10. PREPARE PLANTING SOIL AS SPECIFIED.
11. Tree Frog ... FOR UP TO 4" TREE CALIPER OR Tree Frog ... FOR GREATER THAN 4" AND UP TO 8" TREE CALIPER. REFER TO CITYWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS.

8 SHRUB PLANTING AT FIRE HYDRANT
SECTION / PLAN — NTS



1. FIRE HYDRANT.
2. NO PLANT EXCEEDING 12" MATURE HEIGHT MATERIAL SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. FRONT OF HYDRANT (TOWARD CURB)

9 POOR DRAINAGE CONDITION
SECTION / PLAN — NTS



1. FINISH GRADE (SEE GRADING PLANS)
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 500X OR BETTER.
4. SLOPE BOTTOM TO DRAIN.
5. AUGURED HOLE 8"-12" PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
6. BACKFILL WITH 1/2" - 3/4" GRAVEL TO REQUIRED DEPTH THROUGH OCCLUDING LAYER TO ASSURE PROPER PERCOLATION.
7. WATER TABLE. (DEPTH VARIES)
8. UNDISTURBED NATIVE SOIL.
9. SET ROOTBALL ON UNDISTURBED STABLE SUBSOIL SO THAT TOP OF ROOT BALL IS 1" ABOVE FINISHED GRADE.

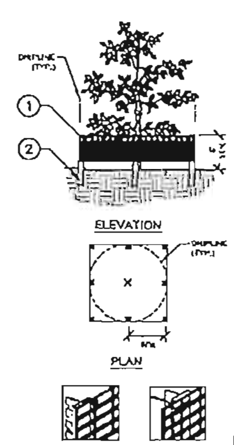
NOTES:

A. THIS DETAIL SHALL BE IMPLEMENTED WHERE PERCOLATION RATES ARE 2" PER HOUR OR LESS.

B. CONTRACTOR TO PERFORM PERCOLATION TEST AS REQUIRED, AND NOTIFY OWNER LANDSCAPE ARCHITECT.

C. SEE TYPICAL TREE PLANTING DETAIL THIS SHEET FOR PLANT STAKING.

10 TREE PROTECTION FENCING
ELEVATION / PLAN — NTS



1. 4' H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONWED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 6' TALL METAL "T" POSTS OR 2" x 2" x 6' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.

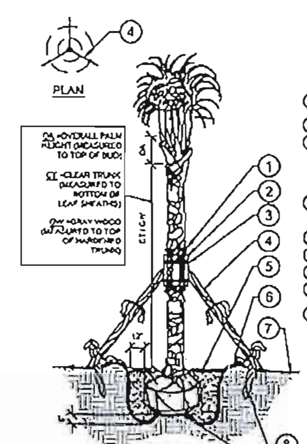
B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

C. SPACE POSTS EVERY 8' (MIN.) TO 10' (MAX.)

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONWED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

11 PALM PLANTING
SECTION / PLAN — NTS



1. 5 LAYERS OF BURLAP TO PROTECT TRUNK.
2. FIVE 2" X 4" X 18" WOOD BATTENS.
3. SECURE BATTENS WITH 2- 3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED IN RELATION TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.
4. (3) 2"X4" SUPPORTS, NAIL (DRILL AN NAIL IF NECESSARY) TO BATTENS AND 2" X 4" STAKES. STAIN DARK BROWN.
5. 3" SPECIFIED MULCH
6. BERM SOIL TO HOLD WATER.
7. FINISH GRADE
8. 2"X4"X24" (MIN) P.T. WOOD STAKES (TYP.) NAIL TO SUPPORT POLES.
9. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES)

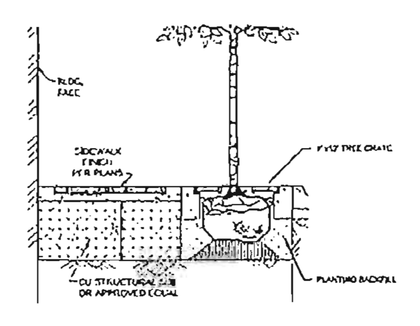
NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

B. ALL TREE STAKING IS TO BE WITHIN MULCH BED AREA OUTSIDE TREE PIT.

C. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION. REFER TO POOR DRAINAGE CONDITION DETAIL.

12 MULTI-TRUNK TREE PLANTING
SECTION/PLAN — NTS



No.	REVISIONS	DATE	BY

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Digitally signed by Matthew T Franko Date: 2020.09.03 09:54:22 -04'00'
DATE 8/31/2020

KHA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

LANDSCAPE DETAILS

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH — FLORIDA

SHEET NUMBER
L1.50

Plotted By: Kitten, Eric Sheet Set: Dania Beach Marina Layout: L1.51 August 31, 2020 09:35:39am K:\VRB_LA\VERO BEACH\147706000 - Dania Marina\CAD\CONST\PlanSheets\L1.50 LANDSCAPE DETAILS.dwg
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GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED HEREIN.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES ACCORDING TO ALL REGULATORY AGENCYS STANDARDS THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES.

3. THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF FDOT DESIGN STANDARDS, INDEX 600. IF A DIRECT APPLICATION OF INDEX 600 IS PROPOSED, THE CONTRACTOR SHALL SUBMIT IN WRITING A STATEMENT INDICATING THE STANDARD INDEX AND PAGE NUMBER NO LESS THAN 10 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION. WHEN A DIRECT APPLICATION OF FDOT STANDARD INDEX 600 IS NOT ACCEPTABLE, A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A FLORIDA PROFESSIONAL ENGINEER WHO HAS SUCCESSFULLY COMPLETED ADVANCED TRAINING IN MAINTENANCE OF TRAFFIC, AS DEFINED BY FDOT FOR APPROVAL BY THE COUNTY ENGINEER'S REPRESENTATIVE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, LOCATING ALL UNDERGROUND FACILITIES DURING CONSTRUCTION, THE SAFETY AND PROTECTION THEREOF, REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

C. PROTECTION OF EXISTING PLANT MATERIALS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC... THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIPLINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIPLINE. NO MATERIALS SHALL BE BURNED ON SITE. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF THREE HUNDRED DOLLARS ($300) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.

D. MATERIALS

1. GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SAMPLE SIZE
MULCH	ONE (1) CUBIC FOOT
TOPSOIL MIX	ONE (1) CUBIC FOOT
PLANTS	ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)

2. PLANT MATERIALS

a. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.

b. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

c. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW.

2. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

a. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER, FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 5.5 AND 7.0.

b. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.

3. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

F. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC... IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

* WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

* FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

1. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). MULCH SHALL BE "FLORIMULCH," EUCALYPTUS MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE.

2. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT (2' MINIMUM) PLANTED UNDER THIS CONTRACT.

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED (B&B) AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS: ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.

5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUBBASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.

4. SPECIFIED ROOTS PLUS GROWER CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BIDDING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUBBASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION PLANTING DETAIL.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

5. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK Z60.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "SETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).

11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.

12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET. ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

13. TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY CERTIFIED ARBORIST, IN ACCORDANCE WITH ANSI A-300.

14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. MATERIALS INSTALLED SHALL MEET MINIMUM SPECIFIED REQUIREMENTS OR QUANTITIES SHOWN ON PLANS, WHICHEVER IS GREATER. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" THE PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.

16. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUNDUP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.

2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (3) INCHES, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH. DURING THE ROLLING, ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.

3. PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.

4. SODDING

a. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.

b. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

c. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.

5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

6. LAWN MAINTENANCE

a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

b. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

S. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

T. WARRANTY

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

2. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER.

3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

1 / L1.51 TYPICAL LANDSCAPE SPECIFICATIONS (FLORIDA)

No.	REVISIONS	DATE	BY

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Digitally signed by Matthew Franko
Date: 2020.09.03 09:56:55 -04'00'
DATE: 8/31/2020

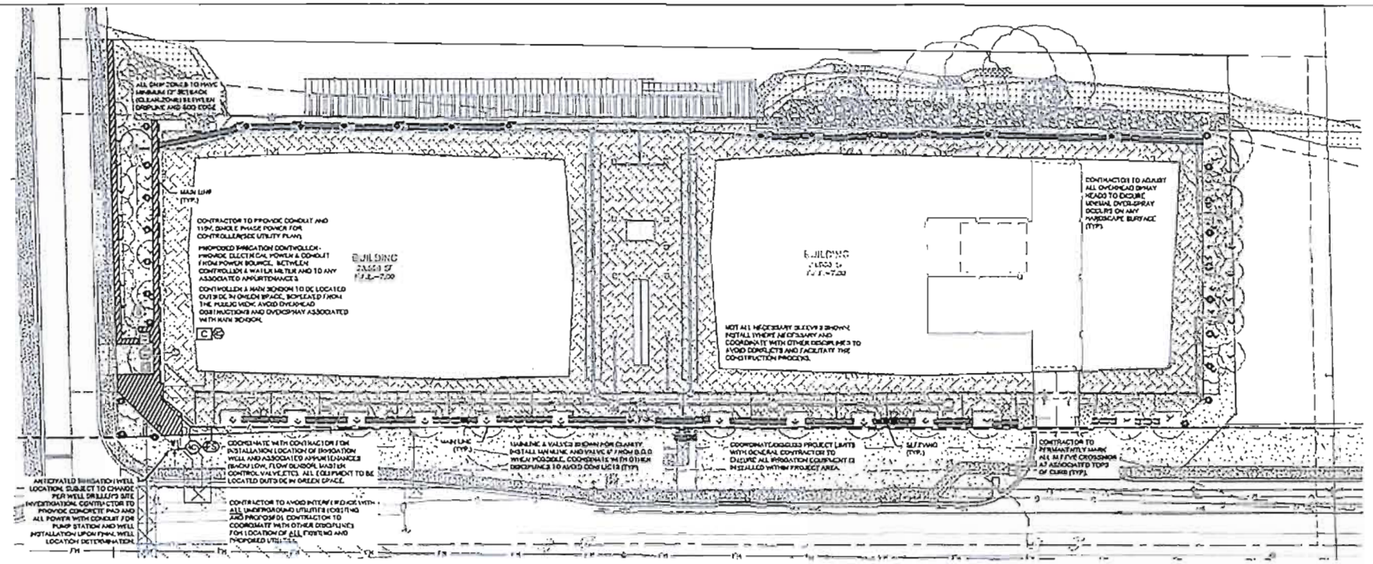
REGISTERED LANDSCAPE ARCHITECT, MATTHEW TAYLOR FRANKO, LA6667293, STATE OF FLORIDA

KHA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY —
DRAWN BY —
CHECKED BY —

LANDSCAPE SPECIFICATIONS

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L1.51



IRRIGATION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, ETC. PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
3. THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
4. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
5. THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION EXISTING FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
6. CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE WILL NOT ALLOW SYSTEM MODIFICATION TO BE POSSIBLE.
7. IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
8. VARIOUS APPLICABLE IRRIGATION HEADS ARE TO BE ADJUSTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAY BEYOND LANDSCAPE AREAS.
9. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR PLACE EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
10. ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES.
11. IRRIGATION CONTRACTOR SHALL REVIEW MAINTENANCE PROCEDURES FOR IRRIGATION SYSTEM WITH OWNER'S REPRESENTATIVE
12. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
13. CONTRACTOR TO PROVIDE PERMANENT REFERENCE MARKS ON ALL CURB LINES AT RELATED SLEEVE LOCATIONS (TYP).
14. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED TO MINIMIZE FOOT DISTURBANCE IN EXISTING TREES.
15. IRRIGATION HEADS AND HOTBOXES ARE NOT CONNECTED ON THE SAME CONTROL VALVE CIRCUIT - LANDSCAPE BEDS AND TURF ON SEPARATE CIRCUITS.
16. MATCH PRECIPITATION RATES WITH ANY HEADS THAT ARE REPLACED

IRRIGATION WELL AND PUMP STATION PERFORMANCE SPECIFICATION

IRRIGATION WATER SUPPLY WELL

1.01 PERFORMANCE REQUIREMENTS

A. MINIMUM TESTED IRRIGATION WATER SUPPLY WELL PERFORMANCE CAPACITY:

THE WELL SHALL BE CAPABLE OF A MINIMUM OF 80 GPM AT 80 PSI AT THE WELL HEAD. THE SUBMERSIBLE PUMP AND MOTOR SHALL BE DESIGNED FOR CONTINUOUS SUBMERGED OPERATION. THE PUMP SHALL BE DRIVEN BY A MOTOR ATTACHED BELOW THE PUMP SECTION. ELECTRICAL POWER SHALL BE 460 VOLT, 3 PHASE, 60 HERTZ. THE OWNER SHALL PROVIDE ALL PRIMARY AND SECONDARY ELECTRICAL FOR THE PUMP STATION. THE WELL PUMP SHALL BE CONTROLLED WITH A VARIABLE FREQUENCY DRIVE. THE VFD PANEL SHALL BE MOUNTED AT LEAST 12" FROM PANEL IS GRADE INSIDE A PROTECTIVE COVER. THIS DATA SHALL BE THE BASIS FOR DETERMINING ALL VARIANCES SUCH AS THE PUMP, MOTOR, VFD, AND WIRE SIZE. THE DEPTH OF THE WELL SHALL BE DETERMINED AS NEEDED FOR PERFORMANCE REQUIREMENTS.

1.02 QUALITY ASSURANCE

A. WELL DRILLER QUALIFICATIONS. AN EXPERIENCED WATER SUPPLY WELL DRILLER LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.

B. TESTING AGENCY QUALIFICATIONS. AN INDEPENDENT TESTING AGENCY, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, WITH THE EXPERIENCE AND CAPABILITY TO CONDUCT THE TESTING INDICATED, AS DOCUMENTED ACCORDING TO ASTM E 548.

C. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

D. AWWA COMPLIANCE: COMPLY WITH AWWA A100 FOR WATER SUPPLY WELLS.

CONTRACTOR SHALL TEST IRRIGATION WATER AFTER WELLS ARE CONSTRUCTED TO INSURE IT IS SUITABLE FOR LANDSCAPE IRRIGATION. IF THE IRON CONTENT EXCEEDS 1.2 PARTS PER MILLION, THE CONTRACTOR SHALL PROVIDE A COST PROPOSAL TO THE OWNER FOR PROVIDING A MEDIA FILTER SYSTEM TO INSURE THAT NO HOMEOWNER WAS CHARGED AND OTHER DISTURBANCES ARE NOT DAMAGED. THIS WORK, IF NEEDED, WILL BE IN ADDITION TO THE CONTRACT.

CONTRACTOR RESPONSIBLE FOR COORDINATING WELL SIZE, DEPTH, AND LOCATION WITH WELL DRILLER UPON WELL DRILLER INVESTIGATION. WELL SIZE, LOCATION, AND DEPTH SUBJECT TO CHANGE.

IRRIGATION SCHEDULE NORTH

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	MAIN FIRE RYAN 1806-SAS-PM	20	65
	TURF ROTARY, 15'-32' 45-270 DEGREES AND 360 DEGREES, HAND ADJUSTABLE WITH STAINLESS ROTARY NOZZLE TURF SPRAY BODY ON 6.5" POPUP, WITH CHECK VALVE AND 60 PSI NOZZLE PRESSURE REGULATOR, 1/2" MPT/FEMALE THREADED INLET.		
	MAIN FIRE 1800 HAND FLOOD 180 FLOOD NUMBER 6.5" POPUP	48	70

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	MAIN DRIP 10316-DEC MULTI-OUTLET DRIP EMITTER/DOUBLER (2 NO-OUTLET, PRESSURE COMPENSATING, DRIP EMITTER, FLOW RATES OF 0.50PH-BLUE, 1.0GPH-BLACK, AND 2.0GPH-RED, AT EACH EMITTER OUTLET. COMES WITH 1/2" FPT INLET & BARB OUTLET.	12
	AREA TO RECEIVE DRIPLINE MAIN DRIP 375-06-18 3/8 SUBSURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY, 0.9 GPH EMITTERS AT 18" O.C. LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT, SHIELDS AT INSERT FITTINGS.	3,283 L.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	MAIN DVF PULLPVB 0 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW/LOW OPERATING CAPACITY, OLDOC CONSTOLMA KOM WITH PRESSURE REGULATOR MODULE.	1
	MAIN DRD 1 SPRINKLE WITH (01) ESP-32DEC-12 32 STATION COMMERCIAL CONTROLLER, MOUNTED ON A PLASTIC WALL MOUNT, WITHOUT FLOW SENSING.	1
	MAIN FIRE WIRELESS WIRELESS MAIN & DECODER COMBO, INCLUDES 1 RECEIVER AND 1 MAIN SENSOR TRANSMITTER.	1
	MAIN FIRE FS 150-P 1-1/2" FLOW SENSOR FOR USE WITH MAIN FIRE WIRELESS. TIE CONTROL, AND REMOTE CENTRAL CONTROL SYSTEMS. PLASTIC (PVC) MODEL. SUGGESTED OPERATING RANGE OF 4.0 GPM TO 140.0 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.	1
	IRRIGATION WELL 1 SEE PER WELL DRILLER	1
	IRRIGATION MAINLINE PVC SCHEDULE 40	878.1 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 MAINLINE SLEEVING	41.8 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 LATERAL SLEEVING	85.3 L.F.

FLOW TOTALS	
Area w/ Drippline:	10.2
Sublines:	23.0
Drip Laterals:	2.4
Turf Rotary:	16.5
Total:	54.3

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

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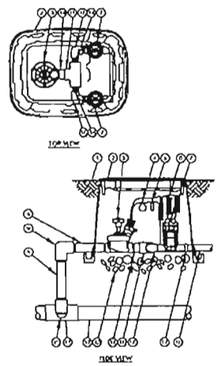
Date: 2020.09.03 09:59:28 -04'00'

KHA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY BJK
DRAWN BY BJK
CHECKED BY MTF

SCHEMATIC IRRIGATION PLAN - 90 WAVE

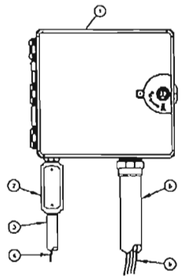
DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L2.00



1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER
3. RESIDENTIAL CONTROL VALVE
4. ID TAG
5. WATERPROOF CONNECTION
6. 30-INCH LINEAR LENGTH OF WIRE COILED
7. PRESSURE REGULATING QUICK CHECK BARBED FILTER
8. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
9. PVC SCH 40 ELL
10. PVC SCH 80 NIPPLE (9-INCH LENGTH, THREADED) AND PVC SCH 40 ELL
11. PVC SCH 40 TEE OR ELL
12. MAINLINE PIPE
13. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
14. PVC SCH 80 NIPPLE, CLOSE
15. PVC SCH 40 ELL
16. PVC SCH 40 ELL
17. PVC SCH 40 FEMALE ADAPTER
18. LATERAL PIPE

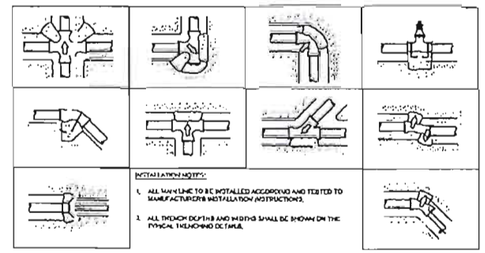
1 L2.50 COMMERCIAL CONTROL DRIP ZONE VALVE KIT
SECTION / PLAN — NTS



1. IRRIGATION CONTROLLER: CONTROLLER SHALL BE EPOXY WALL MOUNT OR STAINLESS STEEL PEDESTAL MOUNTED, PER ALL MFG MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX
3. 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
4. POWER SUPPLY WIRE
5. 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
6. WIRES TO INDIVIDUAL CONTROL VALVES

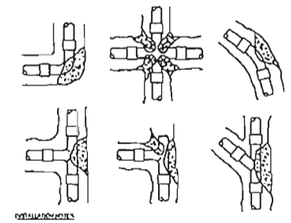
NOTES:
1. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES 2-INCH FIELD 10-18 AWG MULTI-CONDUCTOR WIRE TO BE USED IN CONTROLLER.
2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

2 L2.50 TYPICAL CONTROLLER
ELEVATION — NTS



INSTALLATION NOTES:
1. ALL MAINLINE TO BE INSTALLED ACCORDING AND FITTED TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ALL TRENCH DEPTHS AND WIDTHS SHALL BE SHOWN ON THE TYPICAL TRENCHING DETAILS.

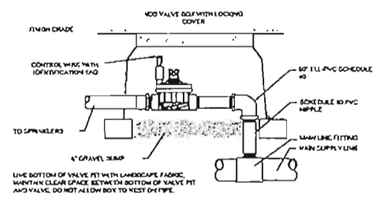
3 L2.50 TYPICAL THRUST BLOCK
SECTION — NTS



INSTALLATION NOTES:
1. 3000 PSI CONCRETE OR BETTER TO BE USED FOR THRUST BLOCKS.
2. FOR 12" DIC FITTINGS, MINIMUM OF 7 CUBIC FEET OF CONCRETE TO BE USED.
3. FOR 75 90° BENDS, MINIMUM OF 5.5 CUBIC FEET OF CONCRETE TO BE USED.
4. FOR 11.25, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED, TYPICAL.

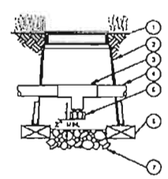
BLOCKS REQUIRED FOR IRRIGATION MAINLINE 2 1/2" AND LARGER.

4 L2.50 THRUST BLOCK REINFORCEMENT
SECTION — NTS



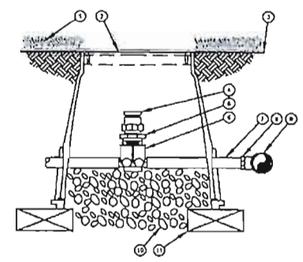
LINE BOTTOM OF VALVE PIT WITH LANDSCAPE FABRIC. MAINTAIN CLEAR SPACE BETWEEN BOTTOM OF VALVE PIT AND VALVE. DO NOT ALLOW BOX TO REST ON PIPE.

5 L2.50 TYPICAL CONTROL VALVE
SECTION — NTS



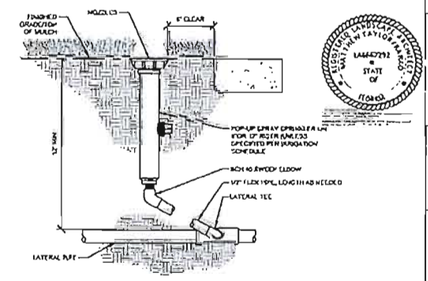
1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER
3. PVC SCH 40 TEE
4. PVC LATERAL PIPE
5. FILTERED DRAIN VALVE
6. BRICK (1 OF 2)
7. 6-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

8 L2.50 DRAIN VALVE
SECTION — NTS

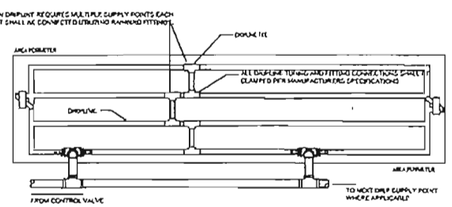


1. TURF GRASS
2. VALVE BOX LID
3. FINISH GRADE
4. 3/4" AIR RELIEF VALVES TO BE INSTALLED AT HIGH POINTS IN DRIP ZONE
5. 3/4" X 3/4" PVC REDUCER BUSHING
6. BARB X FEMALE THREAD CONNECTOR
7. 3/4" BLANK DROPLINE TUBING
8. BARB X MALE THREAD CONNECTOR
9. PVC TEE CONNECTED TO PVC HEADER PIPE
10. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
11. BRICK (1 OF 2)

7 L2.50 AIR RELIEF VALVE IN XFS DRIP LINE
SECTION — NTS



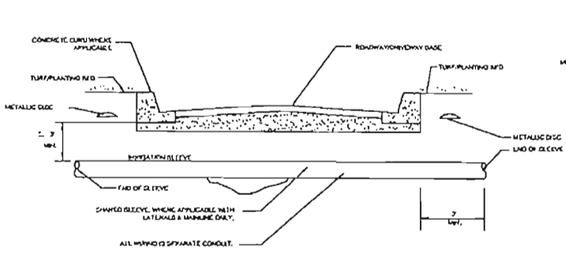
8 L2.50 TYPICAL SPRAY / ROTAR HEAD
SECTION — NTS



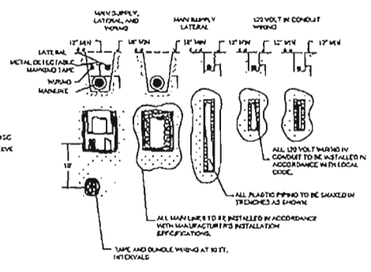
CONTRACTOR TO REFER TO IRRIGATION PLAN FOR LOCATION OF CONTROL VALVES THAT UTILIZE MULTIPLE DRIPLINE SUPPLY CONNECTIONS, IF NOT SHOWN, INSTALL WITHIN AGGREGATE CRUSH AREA NOT IN A HIGHLY VISIBLE AREA.

NOTE:
1. DRIP TUBING TO BE ROUTED IN THE PLANT MATERIAL BED WITH AT MAXIMUM LATERAL SPACING OF 18 INCHES
2. DRIP TUBING TO BE INSTALLED IN A GRID PATTERN. DRIP TUBING SHALL NOT BE INSTALLED IN A LOOP CONTINUOUS RUN
3. CONTRACTOR TO REFER TO IRRIGATION PLAN FOR LOCATION OF CONTROL VALVES THAT UTILIZE MULTIPLE DRIPLINE SUPPLY CONNECTIONS, IF SHOWN)

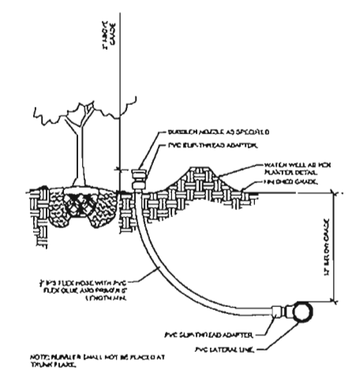
9 L2.50 TYPICAL DRIP LINE
PLAN — NTS



10 L2.50 TYPICAL SLEEVING
SECTION — NTS



11 L2.50 TYPICAL TRENCHING
SECTION / PLAN — NTS



NOTE: BUBBLER SHALL NOT BE PLACED AT TRUNK FLARE.

12 L2.50 TYPICAL BUBBLER
SECTION — NTS

No.	REVISIONS	DATE	BY

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Digitally signed by Matthew T Franko
Date: 2020.09.03 10:04:50 -04'00'

MOA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY BCJ
DRAWN BY BCJ
CHECKED BY KTF

IRRIGATION DETAILS

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH, FLORIDA

SHEET NUMBER
L2.50

IRRIGATION SYSTEM NOTES:

1. THE IRRIGATION MAINLINE LAYOUT IS DIAGRAMMATIC. ANY CHANGES MADE IN THE IRRIGATION MAINLINE DUE TO FIELD CONDITIONS OR CONTRACTOR'S SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH THESE STANDARDS
2. SET SPRAY HEADS 6" AND ROTORS 12" IN FROM BACK OF CURB OR 24" IF PAVEMENT HAS NO CURB.
3. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS PRIOR TO SUBMITTING PROPOSAL. THESE PLANS OUTLINE THE OVERALL LAYOUT THE SYSTEM AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ZONE THE SYSTEM ACCORDINGLY BASED ON FLOW AND PRESSURE AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING BUT NOT LIMITED TO AVAILABLE FLOW, AVAILABLE PRESSURE, CONNECTION ASSEMBLY, CAPACITY OF THE SYSTEM.
4. CONTRACTOR TO PROVIDE NEW AUTOMATIC CONTROLLER FOR PROPOSED SYSTEM AND BATTERY OPERATED CONTROLLERS ALLOWED; COORDINATE LOCATION WITH OWNER.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AUTOMATIC RAIN SENSOR, COORDINATE LOCATION WI OWNER.
6. IRRIGATION SHALL NOT BE COMMENCED ON A DENSE FOAM AND SHALL BE ZONED ACCORDING TO IRRIGATION TYPE, PRECIPITATION RATE, AND THE SYSTEM'S AVAILABLE WATER/PRESSURE. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO INSTALLATION
7. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS-CONTRACTOR SHALL FIELD VERIFY.
8. CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSI AND GPM PRIOR TO CONSTRUCTION.
9. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK OVERALL.
10. CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANT ID FIELD AND TRUE LOCATIONS TO ENSURE ALL PLANT MATERIAL IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.
11. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT
12. PRODUCTS SHALL BE AS SPECIFIED OR APPROVED EQUAL.

PRE-APPROVED MANUFACTURERS:
1. TORO
2. HUNTER
3. RAINBIRD

13. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JURISDICTION.
14. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES UNDER PAVEMENT MUST BE SLEEVED WITHIN SCH. 40 PVC 2x SIZE OF PIPE AND FREE OF BIDINGS/DEBRIS. ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS.
15. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
16. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES
17. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHICH INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE. TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AS EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN THE PIPE IT CARRIES
18. ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SCH. 40 PVC SLEEVES. WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE, WITH OTHER THAN ON LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
19. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB", LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION
20. THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE WARNING TAPE WHICH CLEARLY NOTES "CAUTION: IRRIGATION LINE BURIED BELOW." THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.
21. ELECTRIC SERVICE TO THE CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR
22. ALL 24 VAC WIRING FROM DECODER TO VALVE SHALL BE OF DIRECT BURIAL COPPER WIRE. MAXIMUM LENGTH OF WIRE FROM DECODER TO VALVE SHALL NOT EXCEED 400 FEET. AS FOLLOWS:
    CONTROL WIRES - #14
    COMMON WIRES - #14
23. ALL VALVES SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN ACS VALVE BOXES AS FOLLOWS:
    RECTANGULAR 10"X13" HEAVY DUTY BOX, PURPLE COVER FOR RUSE TO BE PROVIDED WHERE APPROPRIATE)
24. ALL IRRIGATION HEADS OFFSET TURNS SHALL BE LOCATED ONE (1) FOOT FROM BACK OF CURB WHEN NOT TO A ROADWAY. (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES)
25. HEADS, LATERALS, EMITTERS, AND VALVES ARE NOT SHOWN, BUT ARE NECESSARY FOR A FULLY FUNCTIONING IRRIGATION SYSTEM
26. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE. WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 3'-0" FROM THE EDGE OF PAVEMENT OR CURB
27. IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES. AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE.
28. ALL DRIP ZONES SHALL BE INSTALLED WITH A FLUSH VALVE AND AIR RELIEF VALVE. IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE. DRIPLINE SHALL PROVIDE 6.9 GPH EMITTERS, 12" O.C. WITH 12" LINE SPACING AT A MINIMUM.
29. ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURERS SPECIFICATIONS. IF REQUIRED, ALL WIRING FOR A TWO WIRE PATH SHALL BE WITH RED/BLUE TWISTED PAIR 14 AWG. ELECTRIC CONTROL LINES FROM THE DECODER TO THE SOLENOID VALVES SHALL BE TWISTED PAIR 18 AWG. ALL DECODERS SHALL BE GROUNDED EVERY 1,000 LF, OR EVERY 10 DEVICES. ALL WIRE SHALL BE FURNISHED IN MINIMUM 7,000 REELS AND SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. IRRIGATION SYSTEM CONTROL SHALL USE TWO WIRE PATH. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S REQUIREMENTS FOR THIS INSTALLATION. TWO WIRE SYSTEM SHALL HAVE 2-WAY COMMUNICATIONS, FULLY PROGRAMMABILITY, STATION ERF CIFICATIONS AND INTEGRATED SURGE PROTECTION.
30. ALL CONTROL WIRE SHALL BE INSTALLED IN A 1" ELECTRICAL CONDUIT.
31. SMALLEST DIAMETER LATERAL PIPE SHALL BE 3/4".
32. IRRIGATION SYSTEM SHALL BE CAPABLE OF SUPPLYING AN AVERAGE OF 1.00" OF WATER PER WEEK WITHOUT WATER NO RESTRICTIONS AS APPLICABLE
33. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH EXISTING, OR PRESERVED PLANT COMMUNITIES. DO NOT TRENCH THROUGH EXISTING ROOT SYSTEMS OF ANY VEGETATION INTENDED TO BE PRESERVED.
34. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.
35. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THE CONDITION DEPICTED ON THE LANDSCAPE PLAN.
36. IRRIGATION PIPING INSTALLED UNDER ROADS AND SIDEWALKS SHALL BE IN SCHEDULE 40 PVC SLEEVING AT 2X THE PIPE SIZE. ALL SLEEVING SHALL BE FREE OF STONES AND DEBRIS.
37. IRRIGATION SOURCE, TO BE EITHER WELL, POTABLE, OR NON-POTABLE WATER. IRRIGATION CONTRACTOR TO VERIFY SOURCE PRIOR TO DESIGN.
38. POINT OF CONNECTION TO BE DETERMINED BY OWNER. IRRIGATION SYSTEM CONNECTIONS TO THE LOCAL JURISDICTION OF PARCEL SHALL COMPLY WITH ALL APPLICABLE CODES.
39. IRRIGATION CONNECTION MAY REQUIRE BACKFLOW PREVENTION, VERIFY WITH LOCAL JURISDICTION.
40. IRRIGATION SYSTEM SHALL COMPLY WITH THE LOCAL JURISDICTION LAND DEVELOPMENT CODE.

1 TYPICAL SCHEMATIC IRRIGATION NOTES

NO.	REVISIONS	DATE	BY

Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED LANDSCAPE ARCHITECT
MATTHEW TAYLOR FRANKO
LA0667752
STATE OF FLORIDA

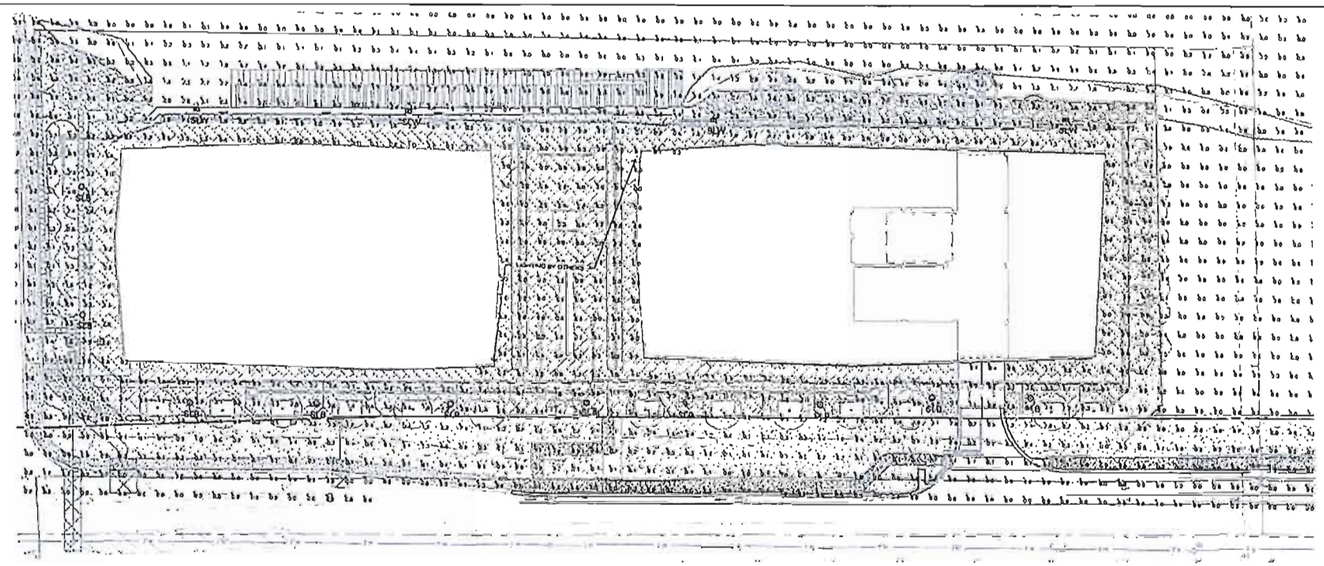
Digitally signed by Matthew T Franko
Date: 2020.09.03 10:07:31 -04'00'

KHA PROJECT	147706000
DATE	01/24/2020
SCALE	AS SHOWN
DESIGNED BY	BLH
DRAWN BY	BLH
CHECKED BY	MTF

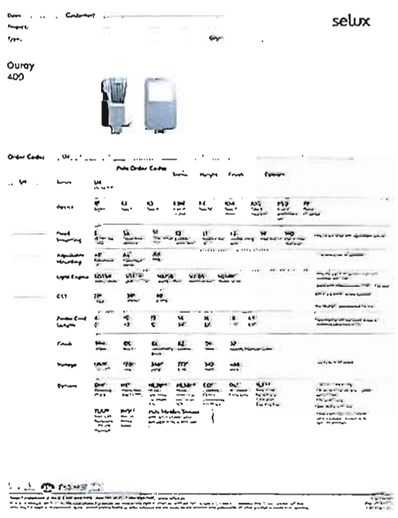
IRRIGATION SPECIFICATIONS

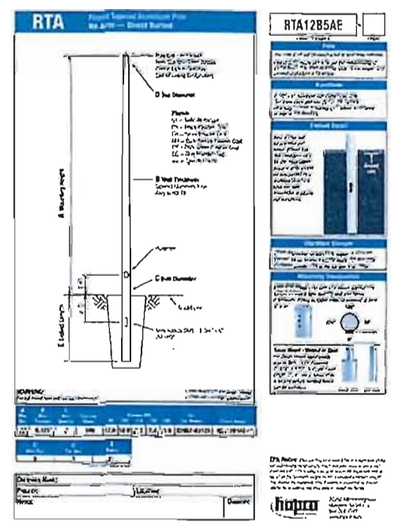
DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

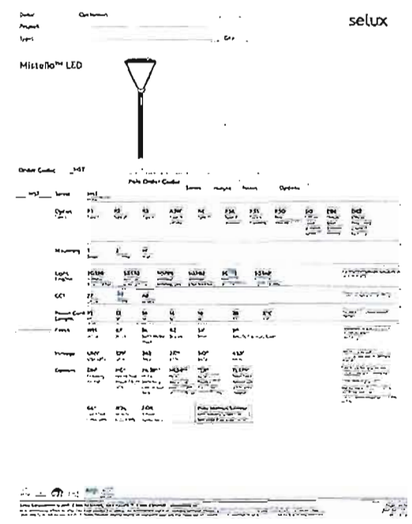
SHEET NUMBER
L2.51



Luminaire Schedule											
Symbol	Qty	Label	Arrangement	Description	Total Watts	Lamp Type	Lamps/Luminaire	Lumens/Lamp	Light Loss Factor	Mounting
O	2	Ouray Cylinder	1	SELUX OURAY 400 LED 4K 4 WAY 360 DEG DISTRIBUTION 4K 4 WAY 360 DEG DISTRIBUTION	1	LED	1	4000	0.9000	Bollard
D	1	Ouray Cylinder	1	SELUX OURAY 400 LED 4K 4 WAY 360 DEG DISTRIBUTION 4K 4 WAY 360 DEG DISTRIBUTION	1	LED	1	4000	0.9000	Bollard







GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2018 KIMLEY-HORN AND ASSOCIATES, INC.
415 24TH STREET, SUITE 202, VERO BEACH, FL 32960
PHONE: 772-231-1100
WWW.KIMLEY-HORN.COM CA 00000696

Digitally signed by Matthew T Franko
Date: 2020.09.03 10:10:42 -04'00'

KHA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

LIGHTING PLAN - 90 WAVE

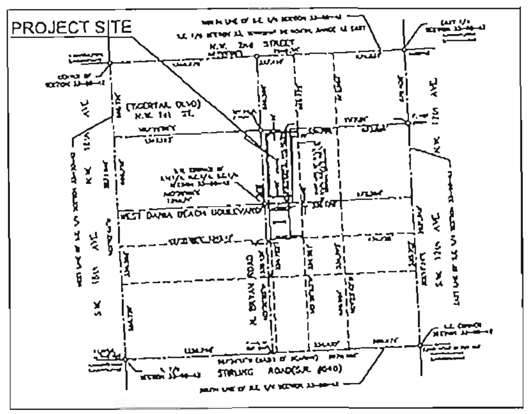
DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L4.00

ALTA/NSPS LAND TITLE SURVEY
90 N. BRYAN ROAD, DANIA BEACH, FLORIDA

LOCATION MAP

NOT TO SCALE



NOTES CORRESPONDING TO SCHEDULE B - SECTION II:

SUBJECT TO:
NOTES CORRESPONDING TO SCHEDULE B - SECTION II:
SUBJECT TO:
THE EASEMENT, ENCUMBRANCES AND RESTRICTIONS EVIDENCED BY RECORDED DOCUMENT AND/OR OTHER TITLE EXCEPTION PROVIDED TO THE SURVEYOR AND NOTED IN SCHEDULE B, SECTION II, OF OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, ISSUING OFFICE FILE NUMBER: 2017-60RS; FILE No. 18100830KJ, WITH AN EFFECTIVE REVISED DATE OF OCTOBER 2, 2019, AT 10:55 AM., ARE A MATTER OF SURVEY AND HAVE BEEN PLOTTED HEREON OR NOTED BELOW:
ITEMS 1 THROUGH 8: CONTAIN GENERAL CONDITIONS THAT HAVE BEEN ADDRESSED ON THIS SURVEY MAP OR FALLS OUTSIDE THE PURVIEW OF THE LAND SURVEYING PROFESSION, AFFECTS THE SUBJECT PROPERTY BUT CONTAINS NOT PLOTTABLE SURVEY MATTER.
ITEM 9: DEDICATION OF RIGHT OF WAY TO THE PERPETUAL USE OF THE PUBLIC FOR PROPER PURPOSES, NONVEHICULAR ACCESS, AND 10' DRAINAGE EASEMENT, AND PLAT EASEMENTS AND RESTRICTIONS AS SET OUT ON THE PLAT OF BRYAN ROAD WAREHOUSES, AS RECORDED IN PLAT BOOK 170, AT PAGE 112, AS AFFECTED BY THAT CERTAIN NOTICE OF AGENT OF RECORD, RECORDED IN OFFICIAL BOOK 32252, PAGE 1101, AFFECTS THE SUBJECT PROPERTY AND IS PLOTTED AND SHOWN HEREON.
ITEM 10: RESTRICTIONS OR RESERVATIONS AS CONTAINED IN DEED BOOK 0, PAGE 382, HOWEVER THE RIGHT OF ENTRY HAS BEEN RELEASED PURSUANT TO SECTION 270.11, F.S. AFFECTS THE SUBJECT PROPERTY BUT CONTAINS NOT PLOTTABLE SURVEY MATTER.
ITEM 11: EASEMENT DEED TO CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT, RECORDED IN OFFICIAL RECORDS BOOK 2161, PAGE 604, AFFECTS THE SUBJECT PROPERTY AND IS PLOTTED AND SHOWN HEREON.
ITEM 12: EASEMENT FOR DRAINAGE TO BROWARD COUNTY, RECORDED IN OFFICIAL RECORDS BOOK 5499, PAGE 392, AFFECTS THE SUBJECT PROPERTY AND IS PLOTTED AND SHOWN HEREON.
ITEMS 13, 14 AND 15: INTENTIONALLY DELETED.
ITEM 16: MOVED TO B-I REQUIREMENTS.
ITEM 17: EASEMENT IN FAVOR OF FLORIDA POWER AND LIGHT COMPANY FOR OPERATION AND MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC UTILITY FACILITIES RECORDED IN OFFICIAL RECORDS BOOK 37973, PAGE 1050, AFFECTS THE SUBJECT PROPERTY AND IS PLOTTED AND SHOWN HEREON.
ITEM 18: TERMS AND CONDITIONS CONTAINED IN DECLARATION OF CONDOMINIUM OF DANIA BEACH BOAT CLUB, AFFECTS THE SUBJECT PROPERTY BUT CONTAINS NOT PLOTTABLE SURVEY MATTER.
ITEMS 19 AND 20, INTENTIONALLY DELETED.
ITEM 21: RIPARIAN AND LITTORAL RIGHTS ARE NOT INSURED, DOES NOT AFFECT THE SUBJECT PROPERTY.
ITEM 22: RIGHTS OF THE UNITED STATES OF AMERICA AND/OR STATE OF FLORIDA TO ANY PORTION OF SAID LAND WHICH HAS BEEN CREATED BY ARTIFICIAL MEANS OR HAS ACCRETED TO ANY SUCH PORTION SO CREATED, DOES NOT AFFECT THE SUBJECT PROPERTY.
ITEM 23: THOSE PORTIONS OF THE PROPERTY HEREIN DESCRIBED BEING ARTIFICIALLY FILLED IN LAND IN WHAT WERE FORMERLY NAVIGABLE WATERS, ARE SUBJECT TO THE RIGHT OF THE UNITED STATES GOVERNMENT ARISING BY REASON OF THE UNITED STATES GOVERNMENT CONTROL OVER NAVIGABLE WATERS IN THE INTEREST OF NAVIGATION AND COMMERCE, DOES NOT AFFECT THE SUBJECT PROPERTY.
ITEM 24: THE RIGHTS, IF ANY, OF THE PUBLIC TO USE AS A PUBLIC BEACH OR RECREATION AREA ANY PART OF THE LAND LYING BETWEEN THE BODY OF WATER ABUTTING THE SUBJECT PROPERTY AND THE NATURAL LINE OF VEGETATION, BLUFF, EXTREME HIGH WATER LINE, OR OTHER APPARENT BOUNDARY LINES SEPARATING THE PUBLICLY USED AREA FROM THE UPLAND PRIVATE AREA, DOES NOT AFFECT THE SUBJECT PROPERTY.
ITEM 25: RIGHTS OF OTHERS TO USE THAT PORTION OF THE INSURED LAND LYING WITHIN THE WATERS OF THE CANAL AS SHOWN ON PLAT BOOK 172, PAGE 110, AFFECTS THE SUBJECT PROPERTY BUT CONTAINS NOT PLOTTABLE SURVEY MATTER.
ITEM 26: THIS POLICY DOES NOT INSURE ANY PORTION OF THE INSURED PARCEL LYING WATERWARD OF THE MEAN HIGH WATER LINE OF THE WATERS OF THE CANAL SHOWN ON PLAT BOOK 172, PAGE 110, AFFECTS THE SUBJECT PROPERTY BUT CONTAINS NOT PLOTTABLE SURVEY MATTER.
ITEM 27: SUBJECT TO PENDING CASE OF PIERRE FORCIER VERSUS DANIA BEACH BOAT CLUB CONDOMINIUM ASSOCIATION, INC., AND DANIA BEACH MARINA CORPORATION, AFFECTS THE SUBJECT PROPERTY BUT CONTAINS NOT PLOTTABLE SURVEY MATTER.
ITEM 28: CONSERVATION EASEMENT SHOWN IN JOB NUMBER 00-2010-133 WAS REMOVED FROM THIS SURVEY AS SURVEYOR DOES NOT POSSESS ANY DOCUMENTARY EVIDENCE OF ITS EXISTENCE NOR DOES A CONSERVATION EASEMENT APPEAR RECORDED IN BROWARD COUNTY OFFICIAL RECORDS. IT WAS SOLELY COPIED FROM A PRIOR SURVEY DONE BY GARY B. CASTEL SURVEYING, INC.
ALL OF THE OFFICIAL RECORDS BOOK AND PLATS MENTIONED ON THIS NOTES CORRESPONDING TO SCHEDULE B - SECTION II AND IN THE SKETCH OF BOUNDARY SURVEY ARE REFERRED TO THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

TABLE A

OPTIONAL SURVEY RESPONSIBILITIES AND SPECIFICATIONS

NOTE: The twenty (20) items of Table A may be negotiated between the surveyor and client. Any additional items negotiated between the surveyor and client shall be identified as 21(a), 21(b), etc. and explained pursuant to Section 6.B.x.(g). Notwithstanding Table A Items 5 and 11, if an engineering design survey is desired as part of an ALTA/NSPS Land Title Survey, such services should be negotiated under Table A, item 21.

If checked, the following optional items are to be included in the ALTA/NSPS LAND TITLE SURVEY, except as otherwise qualified (see note above):

1. X *Monuments placed (or a reference monument or witness to the corner) at all major corners of the boundary of the property, unless already marked or referenced by existing monuments or witnesses in close proximity to the corner.*
2. X *Address(es) of the surveyed property if disclosed in documents provided to or obtained by the surveyor, or observed while conducting the fieldwork.*
3. X *Flood zone classification (with proper annotation based on federal Flood Insurance Rate Maps or the state or local equivalent) depicted by scaled map location and graphic plotting only.*
4. X *Gross land area (and other areas if specified by the client). (See surveyor's note 10).*
5. X *Vertical relief with the source of information (e.g., ground survey, aerial map), contour interval, datum, and originating benchmark identified.(See surveyor's note 11).*
6. X *(a) If set forth in a zoning report or letter provided to the surveyor by the client, list the current zoning classification, setback requirements, the height and floor space area restrictions, and parking requirements. Identify the date and source of the report or letter. (See surveyor's note 12).*
   ___ *(b) If the zoning setback requirements are set forth in a zoning report or letter provided to the surveyor by the client, and if those requirements do not require an interpretation by the surveyor, graphically depict the building setback requirements. Identify the date and source of the report or letter.*
7. X *(a) Exterior dimensions of all buildings at ground level*
   (b) Square footage of:
   ___ *(1) exterior footprint of all buildings at ground level*
   ___ *(2) other areas as specified by the client*
   X *(c) Measured height of all buildings above grade at a location specified by the client. If no location is specified, the point of measurement shall be identified.(See surveyor's note 13).*
8. ___ *Substantial features observed in the process of conducting the fieldwork (in addition to the improvements and features required pursuant Section 5 above) (e.g., parking lots, billboards, signs, swimming pools, landscaped areas, substantial areas of refuse).*
9. ___ *Number and type (e.g., disabled, motorcycle, regular and other marked specialized types) of clearly identifiable parking spaces on surface parking areas, lots and in parking structures. Striping of clearly identifiable parking spaces on surface parking areas and lots.*
10. X *(a) As designated by the client, a determination of the relationship and location of certain division or party walls with respect to adjoining properties (client to obtain necessary permissions).(See surveyor's note 14).*
    (b) As designated by the client, a determination of whether certain walls are plumb (client to obtain necessary permissions).
11. X *Location of utilities existing on or serving the surveyed property as determined by:*
    observed evidence collected pursuant to Section 5.E.iv.
    evidence from plans requested by the surveyor and obtained from utility companies, or provided by client (with reference as to the sources of information).
    and markings requested by the surveyor pursuant to an 811 utility locate or similar request

    Representative examples of such utilities include, but are not limited to:
    Manholes, catch basins, valve vaults and other surface indications of subterranean uses;
    Wires and cables (including their function, if readily identifiable) crossing the surveyed property, and all poles on or within ten feet of the surveyed property. Without expressing a legal opinion as to the ownership or nature of the potential encroachment, the dimensions of all encroaching utility pole crossmembers or overhangs; and Utility company installations on the surveyed property.

    Note to the client, insurer, and lender - With regard to Table A, item 11, source information from plans and markings will be combined with observed evidence of utilities pursuant to Section 5.E.iv. to develop a view of the underground utilities. However, lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted. In addition, in some jurisdictions, 811 or other similar utility locate requests from surveyors may be ignored or result in an incomplete response, in which case the surveyor shall note on the plat or map how this affected the surveyor's assessment of the location of the utilities. Where additional or more detailed information is required, the client is advised that excavation and/or a private utility locate request may be necessary.
12. ___ *As specified by the client, Governmental Agency survey-related requirements (e.g., HUD surveys, surveys for leases on Bureau of Land Management managed lands).*
13. ___ *Names of adjoining owners according to current tax records. If more than one owner, identify the first owner's name listed in the tax records followed by "et al."*
14. X *As specified by the client, distance to the nearest intersecting street.*
15. ___ *Rectified orthophotography, photogrammetric mapping, remote sensing, airborne/mobile laser scanning and other similar products, tools or technologies as the basis for the showing the location of certain features (excluding boundaries) where ground measurements are not otherwise necessary to locate those features to an appropriate and acceptable accuracy relative to a nearby boundary. The surveyor shall (a) discuss the ramifications of such methodologies (e.g., the potential precision and completeness of the data gathered thereby) with the insurer, lender, and client prior to the performance of the survey, and (b) place a note on the face of the survey explaining the source, date, precision, and other relevant qualifications of any such data.*
16. ___ *Evidence of recent earth moving work, building construction, or building additions observed in the process of conducting the fieldwork.*
17. ___ *Proposed changes in street right of way lines, if such information is made available to the surveyor by the controlling jurisdiction. Evidence of recent street or sidewalk construction or repairs observed in the process of conducting the fieldwork.*
18. ___ *If there has been a field delineation of wetlands conducted by a qualified specialist hired by the client, the surveyor shall locate any delineation markers observed in the process of conducting the fieldwork and show them on the face of the plat or map. If no markers were observed, the surveyor shall so state.*
19. X *Include any plottable offsite (i.e., appurtenant) easements or servitudes disclosed in documents provided to or obtained by the surveyor as a part of the survey pursuant to Sections 5 and 6 (and applicable selected Table A items) (client to obtain necessary permissions).(See surveyor's note 15).*
20. ___ *Professional Liability Insurance policy obtained by the surveyor in the minimum amount of $__________ to be in effect throughout the contract term. Certificate of Insurance to be furnished upon request, but this item shall not be addressed on the face of the plat or map.*

Checked items in Table "A", are shown in the sketch of Boundary Survey or in Surveyor's notes and report.

PROPERTY ADDRESS:

90 N. BRYAN ROAD, DANIA BEACH, FLORIDA 33004
FOLIO NUMBER: 5042-33-51-0010

LEGAL DESCRIPTION:

ALL OF PARCEL A, BRYAN ROAD WAREHOUSES, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; TOGETHER WITH A 40 FOOT STRIP OF LAND LYING ADJACENT TO AND CONTIGUOUS WITH THE EASTERLY BOUNDARY OF SAID PARCEL A.

SURVEYOR'S NOTES:

1) THE ABOVE CAPTIONED PROPERTY WAS SURVEYED AND DESCRIBED BASED ON THE ABOVE LEGAL DESCRIPTION PROVIDED BY THE CLIENT.
2) THIS CERTIFICATION IS ONLY FOR THE LANDS AS DESCRIBED. IT IS NOT A CERTIFICATION OF TITLE, ZONING, EASEMENTS, OR FREEDOM OF ENCUMBRANCES.
3) THE ACCURACY OBTAINED FOR ALL HORIZONTAL CONTROL MEASUREMENTS AND OFFICE CALCULATIONS OF CLOSED GEOMETRIC FIGURES, MEETS OR EXCEEDS THE CURRENT STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, AS CONTAINED IN CHAPTER 5J-17.051 (3) (b), 1.5.a.1, OF 1 FOOT IN 10,000 FEET FOR COMMERCIAL AREAS.
4) FOUNDATIONS AND/OR FOOTINGS THAT MAY CROSS BEYOND DE BOUNDARY LINES OF THE PARCEL HEREIN DESCRIBED ARE NOT SHOWN HEREON. UNDERGROUND ENCROACHMENTS NOT LOCATED.
5) NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY.
6) UNDERGROUND UTILITIES ARE NOT DEPICTED HEREON. CONTACT THE APPROPRIATE AUTHORITY PRIOR TO ANY DESIGN WORK OR CONSTRUCTION ON THE PROPERTY HEREIN DESCRIBED. FOR BUILDING AND ZONING INFORMATION, SURVEYOR SHALL BE NOTIFIED AS TO ANY DEVIATION FROM UTILITIES SHOWN HEREON.
7) IN SOME CASES GRAPHIC REPRESENTATION HAVE BEEN EXAGGERATED TO MORE CLEARLY ILLUSTRATE A PARTICULAR AREA WHERE DIMENSIONS SHALL HAVE PREFERENCE OVER GRAPHIC LOCATION.
8) TYPE OF SURVEY: ALTA/NSPS LAND TITLE SURVEY.
9) THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE. THE LIABILITY OF THIS SURVEY IS LIMITED TO THE COST OF THE SURVEY.
10) AREA OF THE PROPERTY:
LOT GROSS AREA (TO CENTERLINE OF: W. DANIA BEACH BOULEVARD, BRYAN ROAD, N.W. 1st STREET AND CANAL): 211316.92 SQUARE FEET OR 4.85 ACRES, MORE OR LESS.
LOT NET AREA: 120765.22 SQUARE FEET OR 2.61 ACRES, MORE OR LESS.
11) VERTICAL CONTROL:
ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 1988).
BENCHMARK USED: BROWARD COUNTY ENGINEERING DIVISION BENCHMARK No. 2041, ELEVATION: 12.83' (N.G.V.D. 1929) - 1.60' CONVERSION = 11.23' (N.A.V.D. 1988), OF BROWARD COUNTY, FLORIDA.
12) ZONING CLASSIFICATION: (PMUD-SL) PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT, PER ARTICLE 350 OF THE LAND DEVELOPMENT CODE, ORDINANCE No. 2010-015, OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA.
BUILDING SETBACK REQUIREMENTS HAS NOT BEEN DETERMINED YET.
13) THE HIGHEST PEAK OF THE ROOF IS 55.60' ABOVE GROUND LEVEL.
THE LOWEST PEAK OF THE ROOF IS 50.30' ABOVE GROUND LEVEL.
14) THERE ARE NOT PARTY WALLS TO ADJOINING PROPERTIES, EXCEPT THOSE FENCES SHOWN ON THIS SURVEY DRAWING.
15) THERE ARE NOT OTHER PLOTTABLE OFF SITE EASEMENTS OR SERVITUDES OTHER THAN SHOWN ON THE RECORDED PLAT OR STATED IN THE LEGAL DESCRIPTION, OR DISCLOSED IN DOCUMENTS PROVIDED TO THE SURVEYOR IN THE TITLE COMMITMENT AS IT APPEARS ON THIS SURVEY DRAWING.
16) NO ENCROACHMENTS WERE NOTED BY THIS SURVEY, EXCEPT A PORTION OF A METAL FENCE ON THE WEST PROPERTY LINE THAT IS ENCROACHING 2.8', AND 3.00', MORE O LESS, INTO THE BRYAN ROAD EAST RIGHT OF WAY, AND AT THE NORTHWEST PROPERTY CORNER, THAT IS ENCROACHING 13.40', MORE O LESS, INTO THE RIGHT OF WAY, AS NOTED ON THIS SURVEY DRAWING.
17) THE SUBJECT PROPERTY CURRENTLY HAS UNRESTRICTED INGRESS AND EGRESS ACCESS TO AND FROM BRYAN ROAD AND THERE ARE NOT INTERVENING STRIPS, GAPS, OR GORES BETWEEN THE BOUNDARY OF THE SUBJECT PROPERTY AND THE BOUNDARY OF SUCH ROADWAY, AND SUCH ROADWAY IS PAVED. DEDICATED PUBLIC RIGHT OF WAY IN CURRENT USE AND IS SHOWN ON THIS SURVEY DRAWING.
18) HORIZONTAL CONTROL:
NORTH ARROW DIRECTION, BEARING AND COORDINATES (NORTHING AND EASTING), SHOWN HEREON, ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, TRANSVERSE MERCATOR, FLORIDA EAST ZONE (0901), NORTH AMERICAN DATUM (N.A.D.) OF 1983, WITH THE 1990 ADJUSTMENT, AS SHOWN ON THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION EASTERN BROWARD HORIZONTAL CONTROL NETWORK. CONTROL MONUMENTS THAT WERE UTILIZED IN THIS SURVEY WERE E38, E30 AND G38, WITH THE SOUTH LINE OF THE SE 1/4 OF SECTION 33-50-42 HAVING A BEARING OF S87°34'11"W, ALONG THE CENTERLINE OF STIRLING ROAD, SAID CENTERLINE TO BE CONSIDERED A WELL ESTABLISHED AND MONUMENTED LINE.
19) BOUNDARY SURVEY AND CALCULATIONS WERE BASED ON MONUMENTS FOUND ON SITE AND INFORMATION COLLECTED AT:
BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION EASTERN BROWARD HORIZONTAL G.P.S. CONTROL NETWORK.
FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP FOR STATE ROAD No. 818 (GRIFFIN ROAD), ITEM No. 413532-1, PROJECT No. 86015-2525, DATED 07/10/2006.
FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP FOR STATE ROAD No. 848 (STIRLING ROAD), SEGMENT No. 411438-1, PROJECT No. 86016-2500, DATED 10/30/2007.
20) THE PROPERTY DESCRIBED ON THIS SKETCH OF ALTA/NSPS LAND TITLE SURVEY IS THE SAME PROPERTY AS DESCRIBED IN SCHEDULE "A" IN AMERICAN LAND TITLE ASSOCIATION COMMITMENT, ISSUING OFFICE FILE NUMBER: 2017-60 RS; FILE No. 18109830 KJ, WITH AN EFFECTIVE REVISED DATE OF OCTOBER 2, 2019, AT 10:55 AM., ISSUED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY.
21) THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS ARE EFFECTIVE FEBRUARY 23, 2016. AS OF THAT DATE, ALL PREVIOUS VERSIONS OF THE MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS ARE SUPERSEDED BY THESE STANDARDS.
ADOPTED BY THE BOARD OF GOVERNS, AMERICAN LAND TITLE ASSOCIATION (ALTA), ON OCTOBER 8, 2015.
ADOPTED BY THE BOARD OF DIRECTORS, NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS (NSPS), ON OCTOBER 9, 2015.
22) CERTIFICATION:
THIS PLAN OF SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE ENTITIES NAMED HEREON.
THE CERTIFICATE DOES NOT EXTEND TO ANY UNNAMED PARTY:
OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY.
SOUTH FLORIDA TITLE ASSOCIATES, LLC.
LV LENDING LLC, A FLORIDA LIMITED LIABILITY COMPANY, ISAOA/ATIMA.
DANIA BEACH MARINA CORP., A FLORIDA CORPORATION.

LEGEND AND ABBREVIATIONS:

A.	= ARC	N.A.V.D.	= NORTH AMERICAN VERTICAL DATUM
A/C	= AIR CONDITIONER PAD	N.G.V.D.	= NATIONAL GEODETIC VERTICAL DATUM
ACSM	= AMERICAN CONGRESS OF SURVEYING AND MAPPING	NSPS	= NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
ALTA	= AMERICAN LAND TITLE ASSOCIATION	O/L	= ON LINE
ATIMA	= AS THEIR INTERESTS MAY APPEAR	O/S	= OFF SET
C.B.	= CATCH BASIN	OHW	= OVERHEAD WIRES LINE
C.L.F.	= CHAIN LINK FENCE	O.R.B	= OFFICIAL RECORDS BOOK
℄	= CENTER LINE	PG.	= PAGE
CL	= CLEAR	P.B.	= PLAT BOOK
CONC.	= CONCRETE	P.R.C.	= POINT OF REVERSE CURVE
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E	= EAST	P.O.C.	= POINT OF COMMENCEMENT
ENC.	= ENCROACHMENT	P.C.	= POINT OF CURVATURE
EL.	= ELEVATION	P.C.P.	= PERMANENT CONTROL POINT
Δ	= DELTA	P.T.	= POINT OF TANGENCY
F.F.EL.	= FINISH FLOOR ELEVATION	P.F.	= PLASTIC FENCE
F.P.C.P.	= FOUND PERMANENT CONTROL POINT	R	= RADIUS
F.I.P. 1/2"	= FOUND IRON PIPE 1/2"	(R)	= RECORD
F.I.R. 1/2"	= FOUND IRON REBAR 1/2"	R.P.	= RADIUS POINT
F.N.	= FOUND NAIL	S	= SOUTH
F.N.&D.	= FOUND NAIL AND DISC	S. 1/2" I.R.	= SET 1/2" IRON REBAR
F.P.R.M.	= FOUND PERMANENT REFERENCE MONUMENT	R/W	= RIGHT OF WAY
G.P.S.	= GLOBAL POSITIONING SYSTEM	SBT	= BELL SOUTH TELEPHONE
L.M.E.	= LAKE MAINTENANCE EASEMENT	SWK.	= SIDEWALK
ISAOA	= ITS SUCCESSORS AND/OR ASSIGNS	S.N.&D.	= SET NAIL & DISC
N.A.D.	= NORTH AMERICAN DATUM	T	= TANGENT
(M)	= MEASURED	TBM	= TEMPORARY BENCHMARK
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		W	= WEST
		WM	= WATER METER
		W.F.	= WOOD FENCE

GARY B. CASTEL

PROFESSIONAL LAND SURVEYOR

25465 S.W. 134th PLACE, HOMESTEAD, FLORIDA 33032

Mobile Phone: (786) 486-6786
E-Mail. esplandsinc@gmail.com

SURVEYOR'S CERTIFICATION:

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THE FIELD WORK WAS COMPLETED ON: 12/17/2019
DATE OF PLAT OR MAP: 12/31/2019

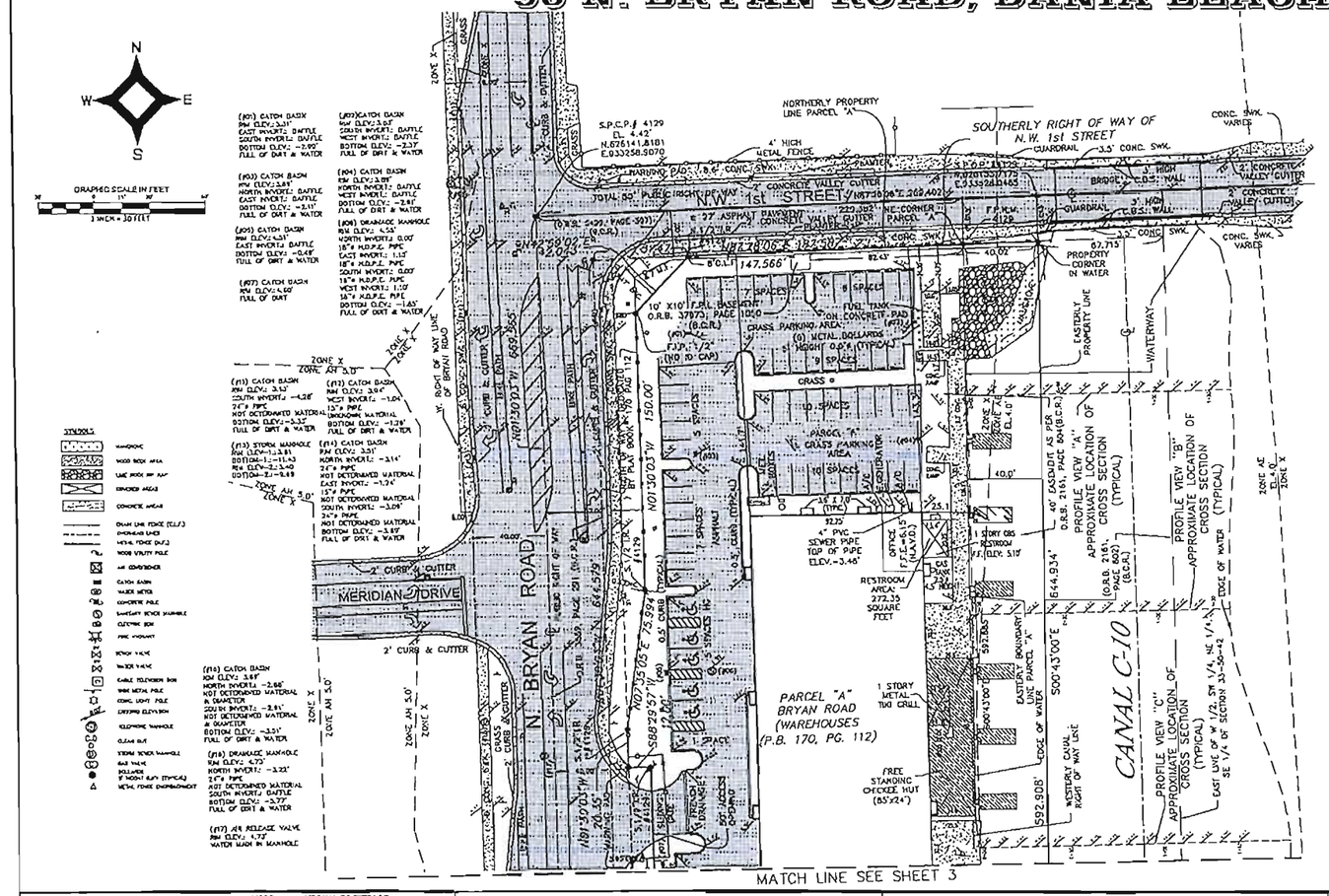
GARY B. CASTEL 12/31/2019
Registered Land Surveyor No. 4129
State of Florida

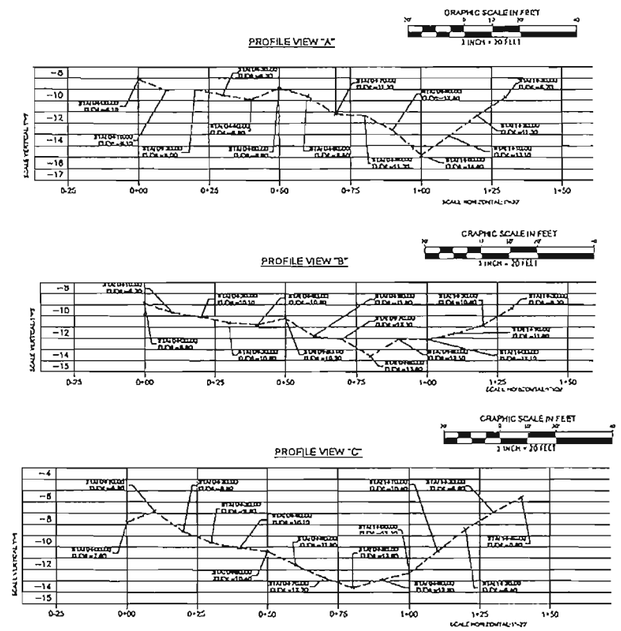
Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper.

COMMUNITY NAME AND NUMBER: CITY OF DANIA BEACH: 120034	PANEL NUMBER AND SUFFIX: 12011 C 0567 - H	FIRM PANEL EFFECTIVE DATE: 08 / 18 / 2014
COUNTY NAME: BROWARD / STATE: FLORIDA	FLOOD ZONE: X	BASE FLOOD ELEVATION: N/A

No.	REVISIONS	
		JOB Nº: 12 - 2019 - 181
1	11/22/2019 CANAL SOUNDING, WATER LEVEL 1.05' AT 2:30 P.M.	FIELD CREW: EDMUND
2	01/08/2020 CANAL CROSS SECTIONS AND PROFILES.	DRAWN: S.F.
3	01/13/2020 FLOOD ZONE CONTOUR LINE LIMITS.	CHECKED: G.C.
		FIELD DATE: 12 / 17 / 2019
		DATE: 12 / 31 / 2019
		SHEET 1 of 3

SKETCH OF BOUNDARY SURVEY
ALTA/NSPS LAND TITLE SURVEY
90 N. BRYAN ROAD, DANIA BEACH, FLORIDA





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JOB №: 12-2019-181
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DRAWN: S.F.
CHECKED: G.C.
FIELD DATE: 12 / 17 / 2019
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SHEET 2 of 3

SKETCH OF BOUNDARY SURVEY
ALTA/NSPS LAND TITLE SURVEY
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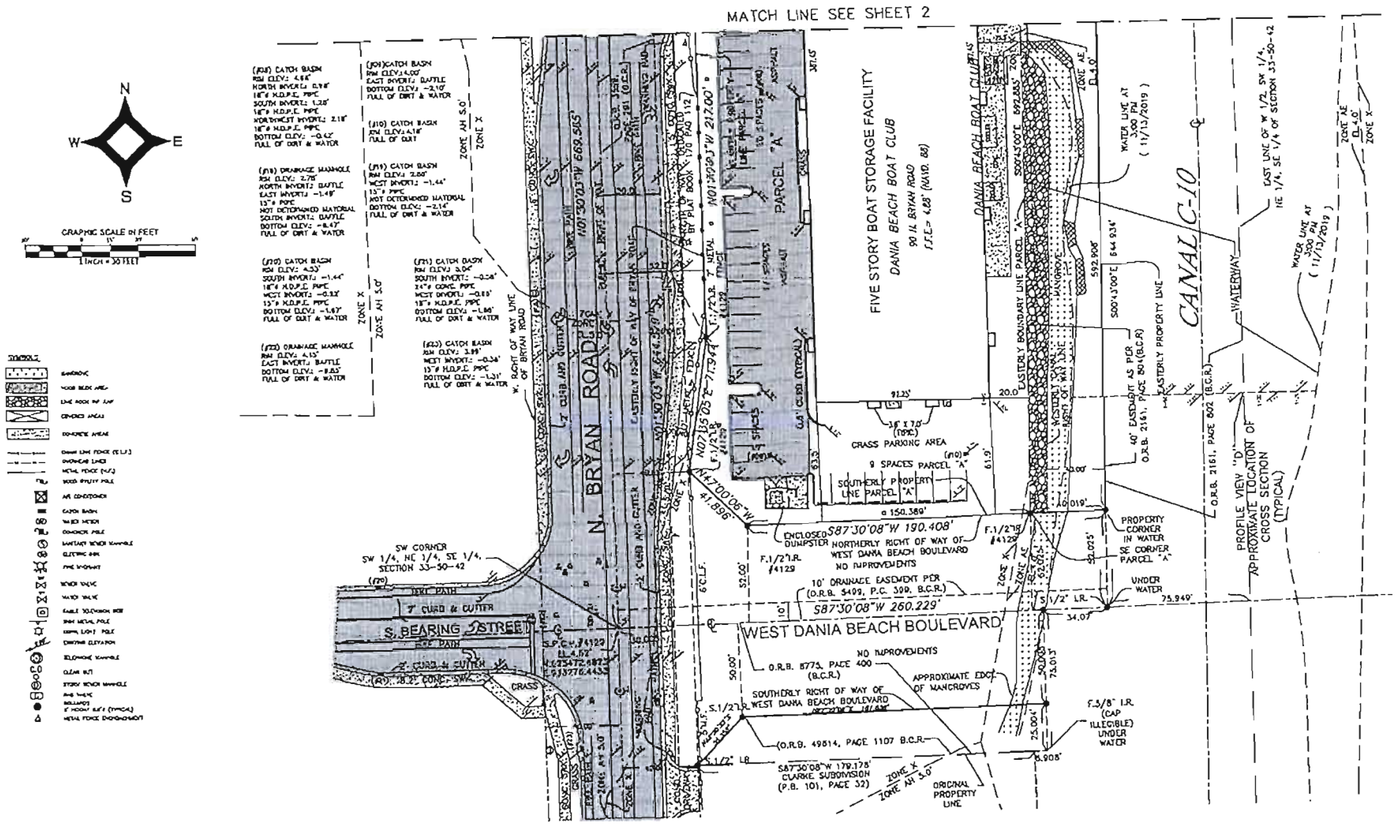

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COUNTY NAME: BROWARD	FLOOD ZONE: X	BASE FLOOD ELEVATION : N/A
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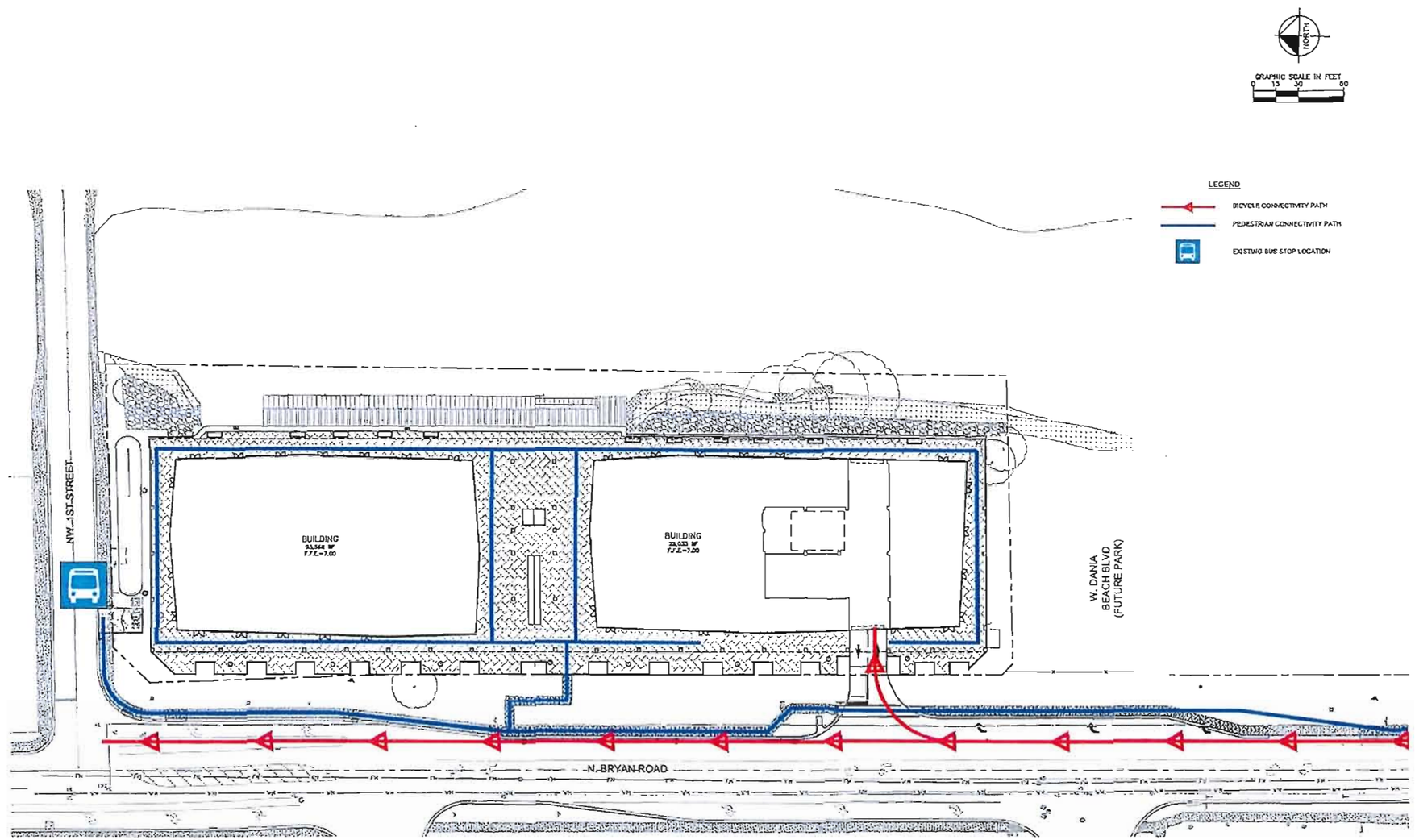
3	01/13/2020 FLOOD ZONE CONTOUR LINE LIMITS.

JOB Nº: 12 - 2019 - 181
FIELD CREW : EDMUND
DRAWN : S.F.
CHECKED: G.C.
FIELD DATE : 12 / 17 / 2019
DATE : 12 / 31 / 2019

SHEET 3 of 3



Kimley»Horn

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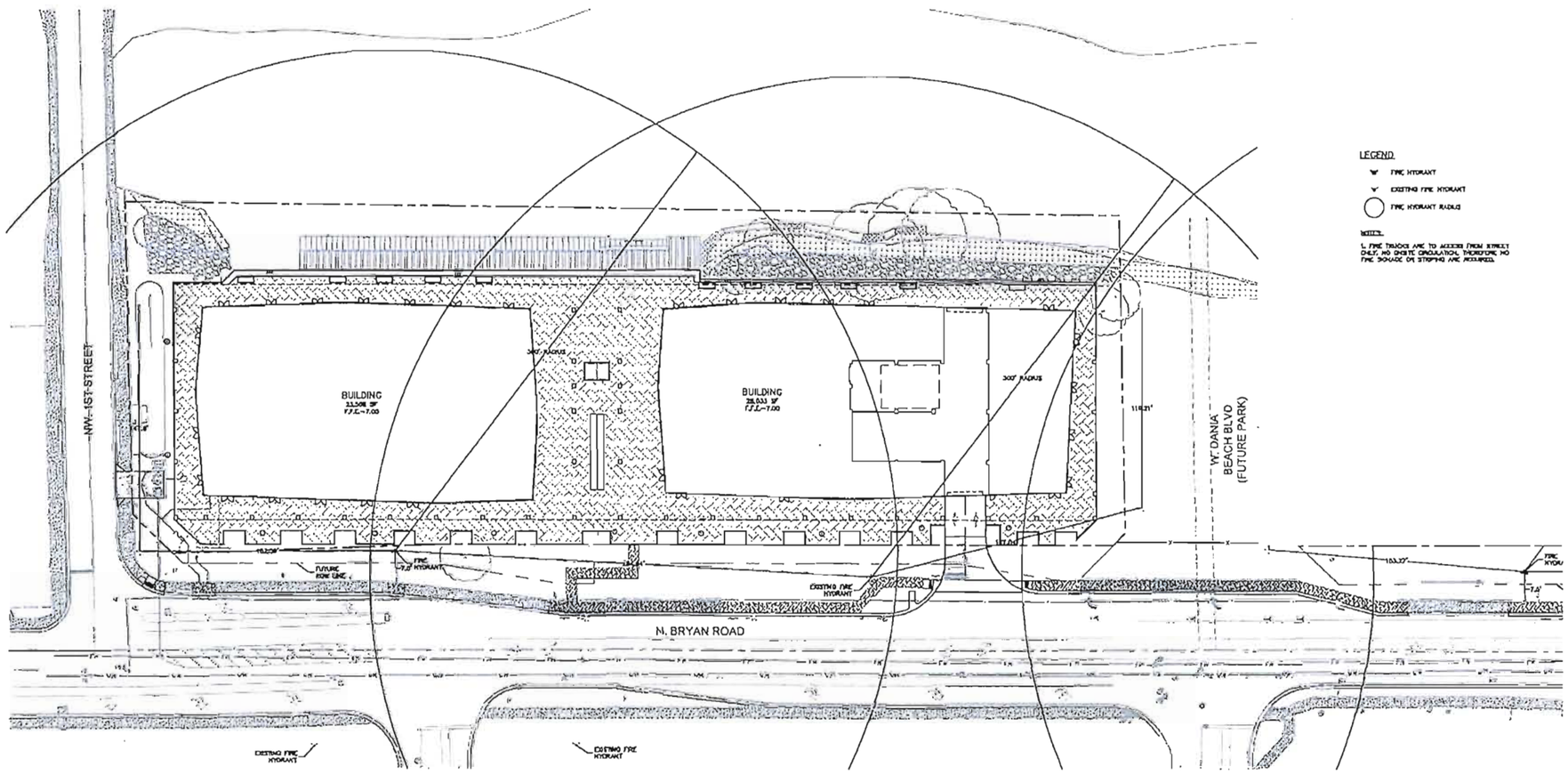
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

90 WAVE

BICYCLE, PEDESTRIAN, AND TRANSIT CONNECTIVITY EXHIBIT

SHEET NUMBER

CE-1



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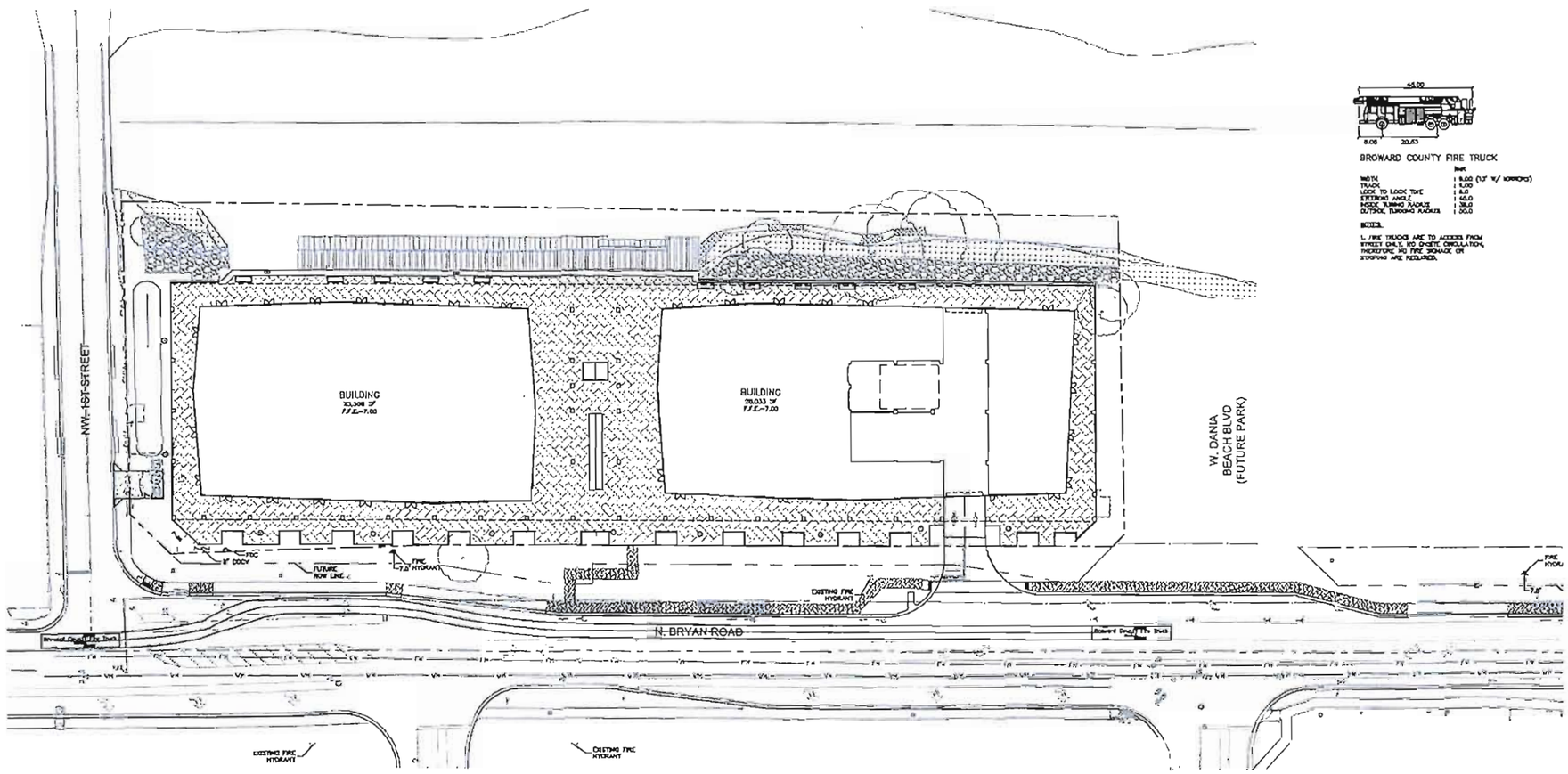
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000695

90 WAVE

FIRE HYDRANT EXHIBIT

SHEET NUMBER

FH-1



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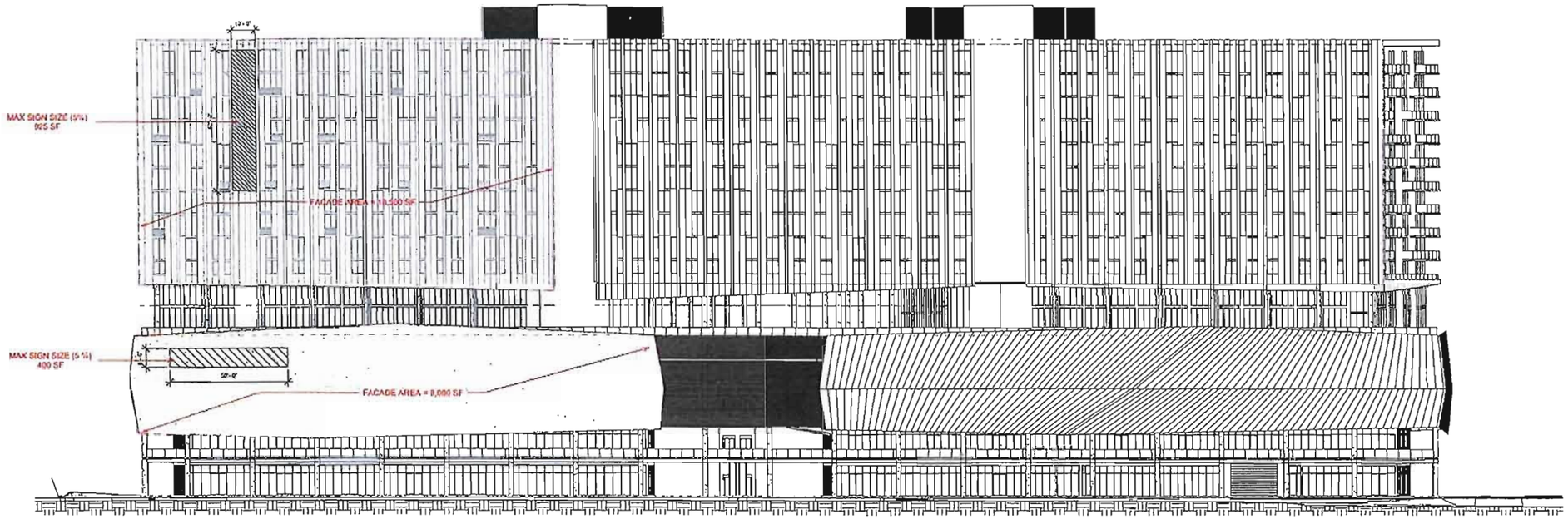
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

90 WAVE

FIRE TRUCK EXHIBIT

SHEET NUMBER

FT-1

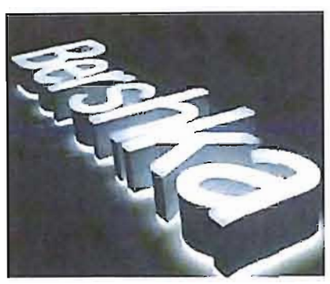


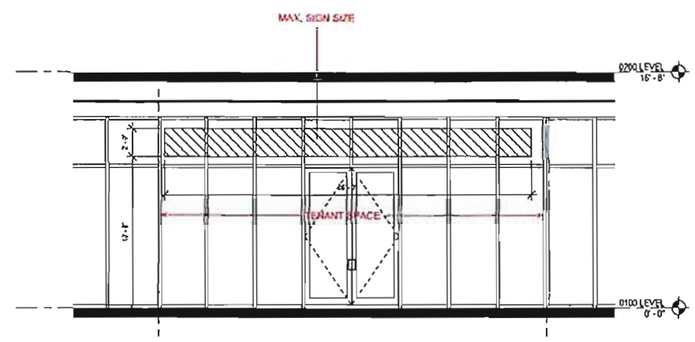
104,811.21 SF BUILDING FACADE AREA

66,740.04 SF TOWER FACADE AREA

1 SIGN BUILDING IDENTIFICATION
1" = 20'-0"

BUILDING SIGNAGE:
ALUMINUM AND ACRYLIC BACKLIT CHANNEL LETTERS TO COMPLY WITH MAX SQUARED FOOTAGE ALLOWED. SURFACE MOUNTED WITH BRACKETS RETURN DEEP SIZE MAX 6".





3 SIGN RETAIL SIGNAGE
1/4" = 1'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC

PATRICK THOMAS
ARCHITECT
AR92001

90 WAVE
DANIA BEACH, FL

SIGN

PLAN RENDERING

LEGEND

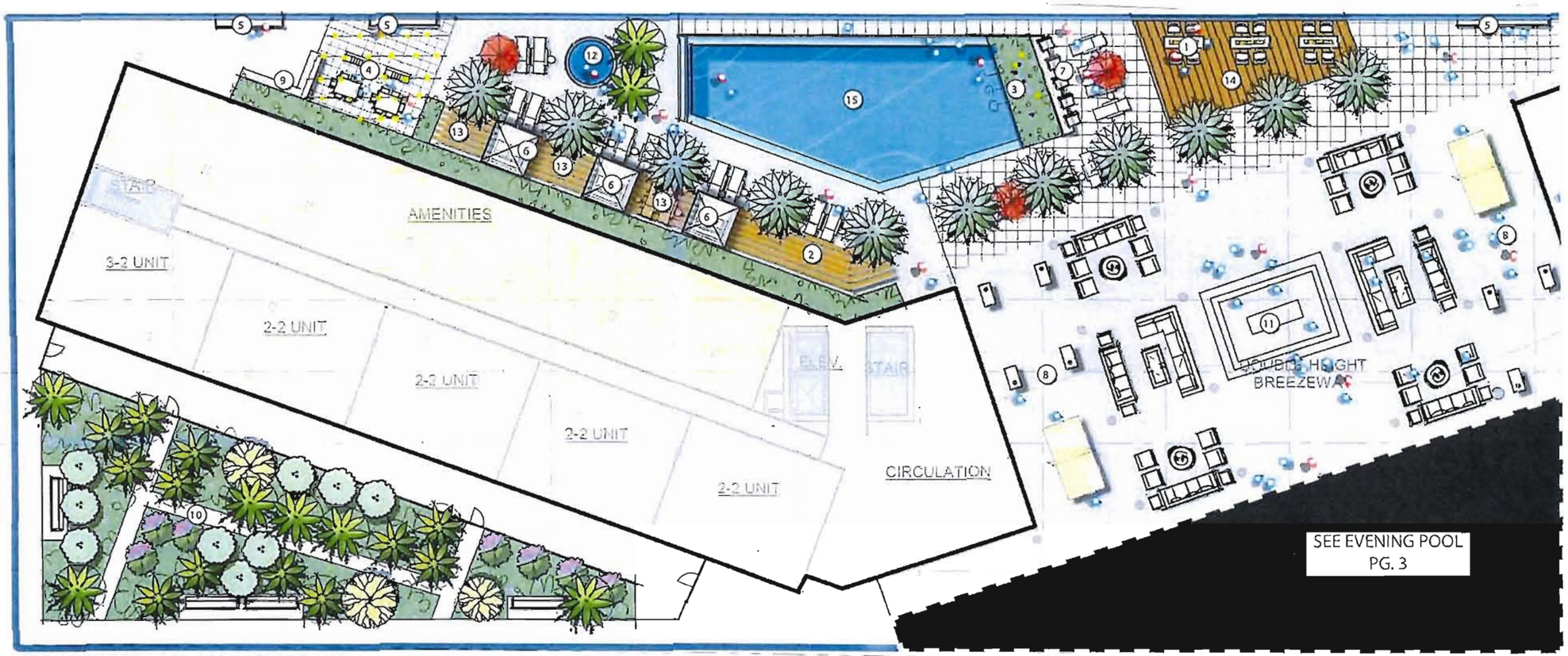
1. FIRE PIT
2. EGG HAMMOCKS - SUSPENDED FROM TRELLIS
3. WATER SPITTERS + LANDSCAPE
4. CONCRETE GRILLS
5. DAYBEDS + PLANTERS
6. DRINK RAILS
7. TUCCI CABANA
8. BARSTOOL SEATING
9. GAMES CENTRAL
10. SEAT WALLS (24" HEIGHT)
11. GARDEN WITH SEATING
12. BAR AREA

AMENTITY DECK CONCEPT

DANIA BEACH, FL

Kimley»Horn

JUNE, 2020



PLAN RENDERING - MORNING POOL

SCALE: 1"=20'-0"

0 5' 10' 20' 40'

LEGEND

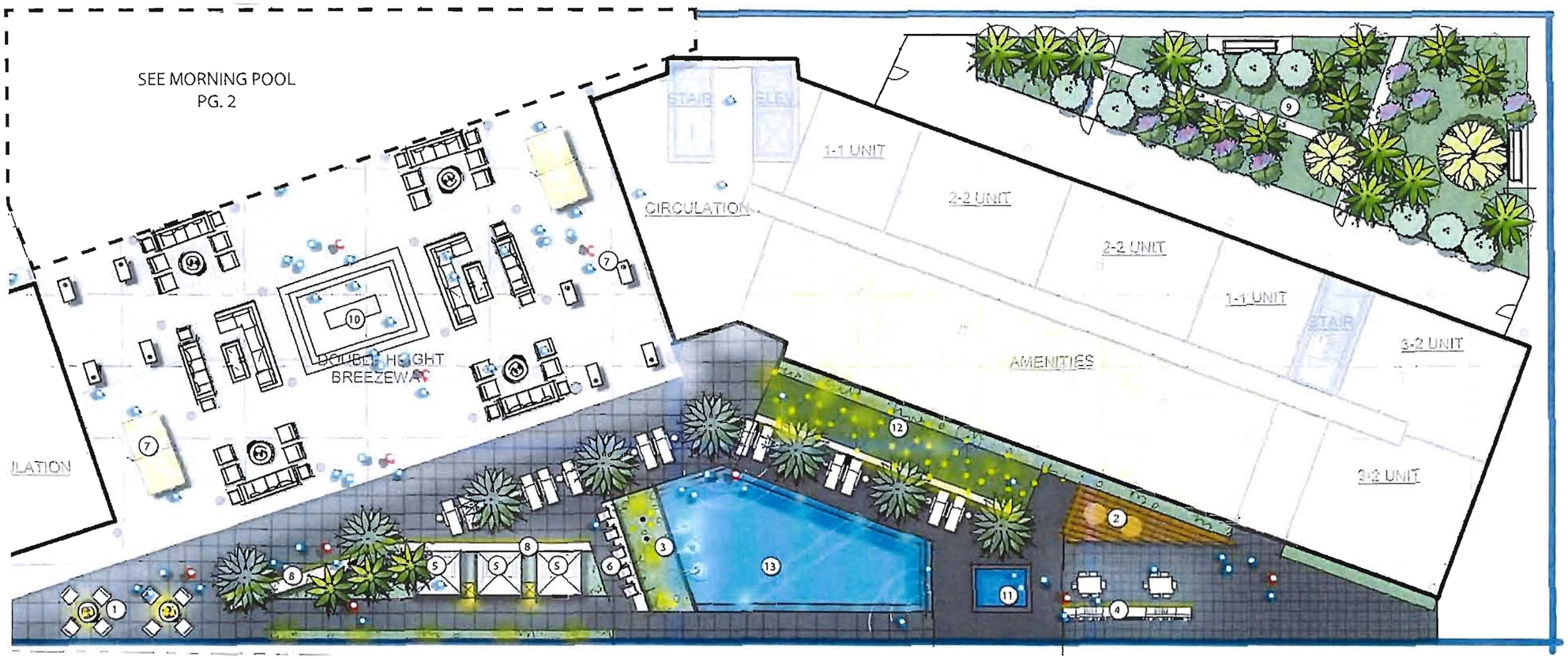
1. FIRE PIT WITH MOVEABLE SEATING
2. EGG HAMMOCKS - SUSPENDED FROM TRELLIS
3. WATER SPITTERS + LANDSCAPE
4. CONCRETE GRILLS
5. DRINK RAILS
6. TUCCI CABANA
7. BARSTOOL SEATING
8. GAMES CENTRAL
9. SEAT WALLS (24" HEIGHT), TRANSITION AREA
10. GARDEN WITH SEATING
11. BAR AREA
12. RAISED COLD PLUNGE
13. TRELLIS + SEATING AREA
14. PERFORMANCE STAGE
15. MORNING POOL (+/-2,050 SF)

AMENTITY DECK CONCEPT

DANIA BEACH, FL

Kimley»Horn

JUNE, 2020



PLAN RENDERING - EVENING POOL (NIGHT)

SCALE: 1"=20'-0"

0 5' 10' 20 40'

LEGEND

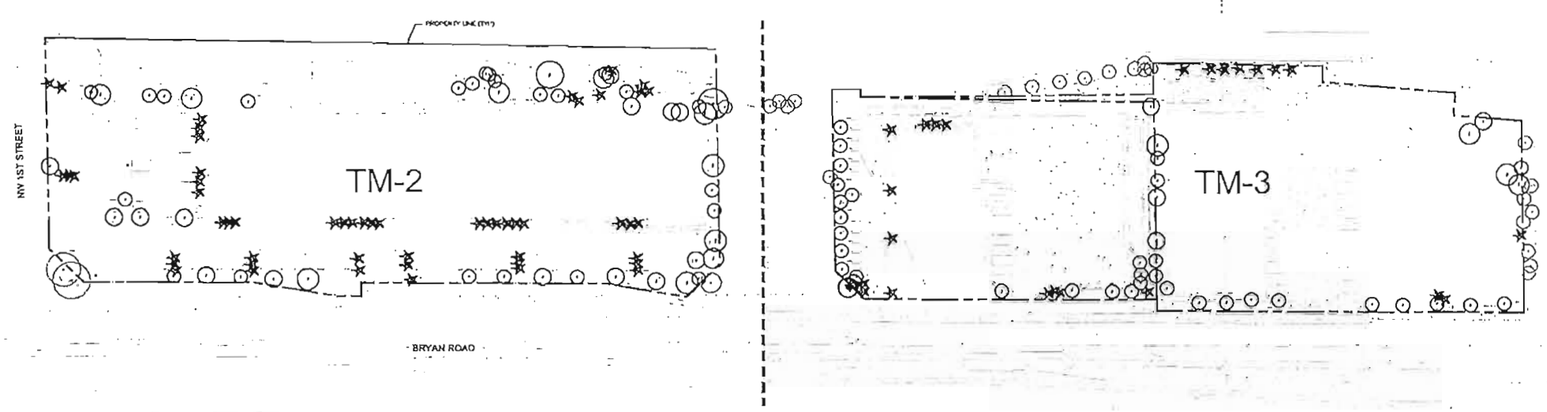
1. FIRE PIT WITH MOVEABLE SEATING
2. EGG HAMMOCKS - SUSPENDED FROM TRELLIS
3. WATER SPITTERS + LANDSCAPE
4. CONCRETE GRILLS
5. DAYBEDS + PLANTERS
6. BARSTOOL SEATING
7. GAMES CENTRAL
8. SEAT WALLS (24" HEIGHT), TRANSITION AREA
9. GARDEN WITH SEATING
10. BAR AREA
11. JACUZZI
12. BOCCE COURT
13. EVENING POOL (+/-1,450 SF)

AMENTITY DECK CONCEPT

DANIA BEACH, FL

Kimley»Horn

JUNE, 2020



SYMBOL KEY

- EXISTING PROTECTED TREE
- EXISTING PROTECTED PALM
- EXISTING INVASIVE TREE
- EXISTING OFF-SITE TREE / PALM

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
1777 NW 1ST STREET, SUITE 200, SARASOTA, FL 34236
PHONE: 941-364-7900 FAX: 941-364-7901
WWW.KIMLEY-HORN.COM CA 00000614

DATE 6/23/2020

KHA PROJECT 147706000
DATE JUNE 2020
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MDO
CHECKED BY CDC

FIGURE 4 - OVERALL EXISTING TREE LOCATION PLAN

DANIA BEACH MARINA REDEVELOPMENT

DANIA BEACH, FL

SHEET NUMBER
TM-1

SYMBOL KEY

- EXISTING PROTECTED TREE
- EXISTING PROTECTED PALM
- EXISTING INVASIVE TREE
- EXISTING OFF-SITE TREE / PALM

NO.	REVISIONS	DATE	BY

Kimley»Horn

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
1777 NW 1ST STREET, SUITE 300, DANIA BEACH, FL 33326
PHONE: 954-779-1900
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 147706000
DATE JULY 2020
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY MDD
CHECKED BY CDC
DATE: 6/23/2020

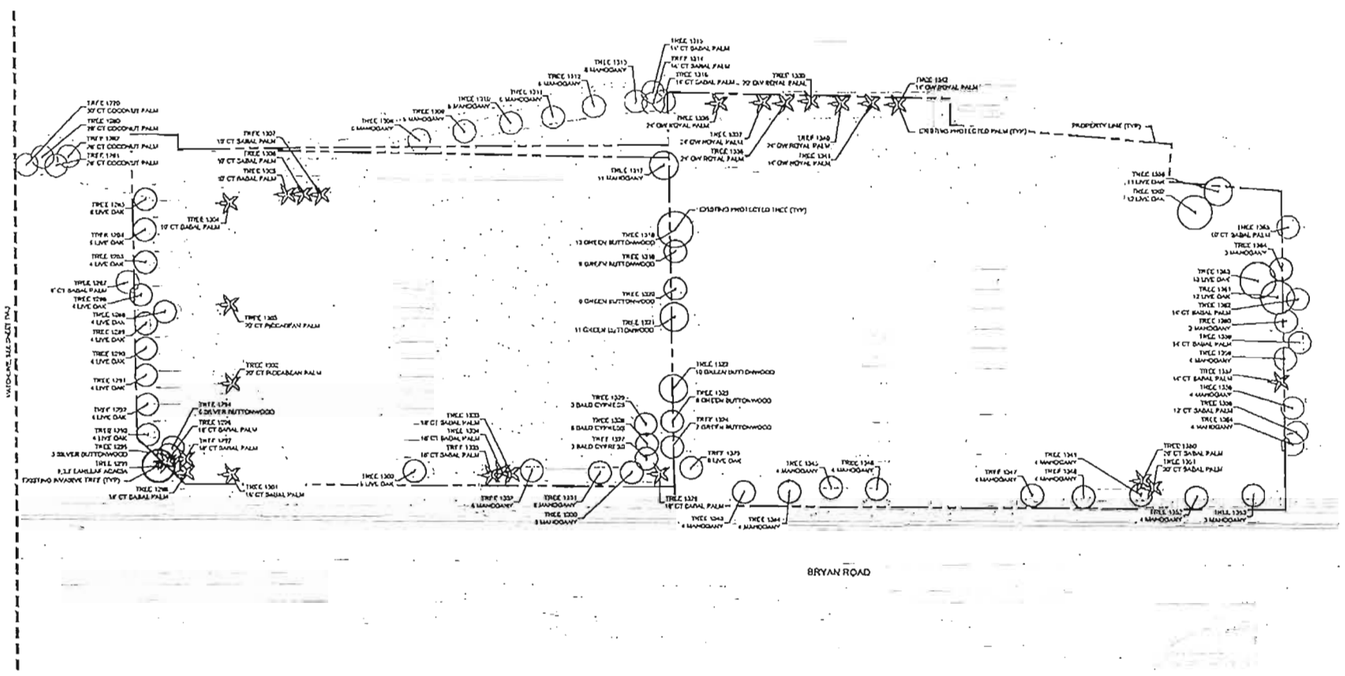
FIGURE 4 - EXISTING TREE LOCATION PLAN

DANIA BEACH MARINA REDEVELOPMENT

DANIA BEACH

FL

SHEET NUMBER
TM-2



SYMBOL KEY

- EXISTING PROTECTED TREE
- EXISTING PROTECTED PALM
- EXISTING INVASIVE TREE
- EXISTING DEAD TREE / PALM

DRAWING SCALE IN FEET
0 15 30 60

NORTH

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
1777 NW 7TH STREET, SUITE 300, BOCA RATON, FL 33486
PHONE: 561-392-7200
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 147706000
DATE JUNE 2020
SCALE AS SHOWN
DESIGNED BY KHA
DRAWN BY UDO
CHECKED BY CDC
DATE: 6/23/2020

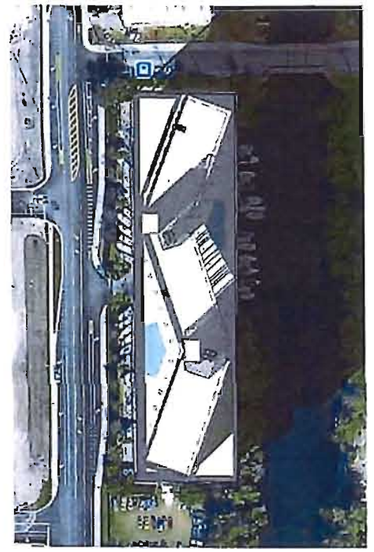
FIGURE 4 - EXISTING TREE LOCATION PLAN

DANIA BEACH MARINA REDEVELOPMENT
DANIA BEACH FL

SHEET NUMBER
TM-3

1 SS-1.00 NB - DEC 21 10 AM NORTH
1" = 80'-0"

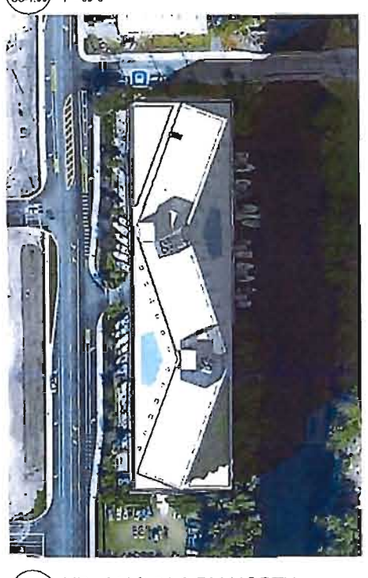
2 SS-1.00 NB - DEC 21 12 PM NORTH
1" = 80'-0"



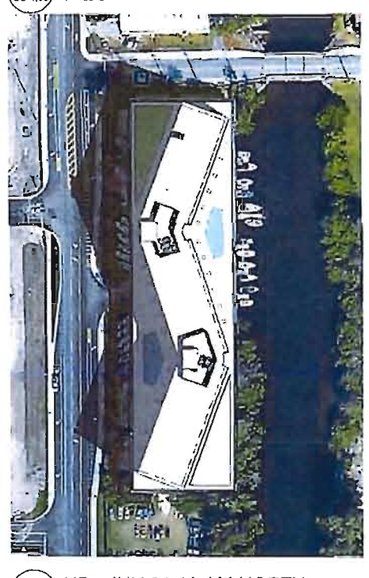
3 SS-1.00 NB - DEC 21 3 PM NORTH
1" = 80'-0"

4 SS-1.00 NB - MAR 21 10 AM NORTH
1" = 80'-0"

5 SS-1.00 NB - MAR 21 12 PM NORTH
1" = 80'-0"



6 SS-1.00 NB - MAR 21 3 PM NORTH
1" = 80'-0"



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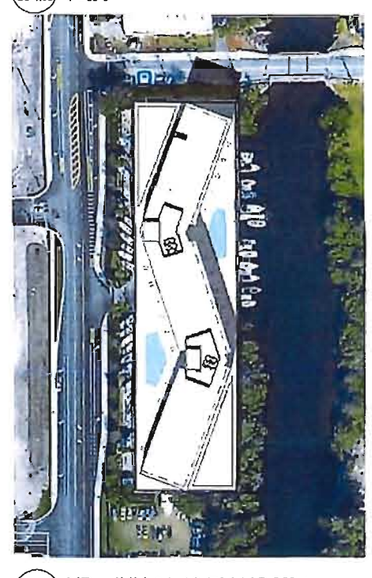
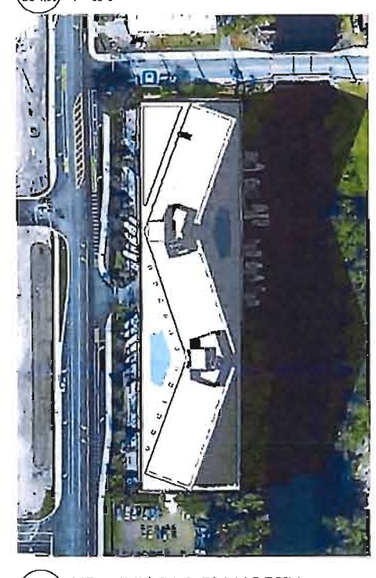
1" = 80'-0"



8 SS-1.00 NB - JUN 21 12 PM NORTH
1" = 80'-0"



9 SS-1.00 NB - JUN 21 3 PM NORTH
1" = 80'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92091

90 WAVE
DANIA BEACH, FL

SS-1.00

1 SS-1.01 SB - DEC 21 10 AM
1" = 160'-0"

2 SS-1.01 SB - DEC 21 3 PM
1" = 160'-0"

3 SS-1.01 SB - MAR 21 10 AM
1" = 160'-0"

4 SS-1.01 SB - MAR 21 3 PM
1" = 160'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92031

90 WAVE
DANIA BEACH, FL

SS-1.01

BCHCED REF NO. XXXXXXXXXX

CONSTRUCTION PLANS
FOR
DANIA BEACH MARINA
LOCATED IN
CITY OF DANIA BEACH, FLORIDA

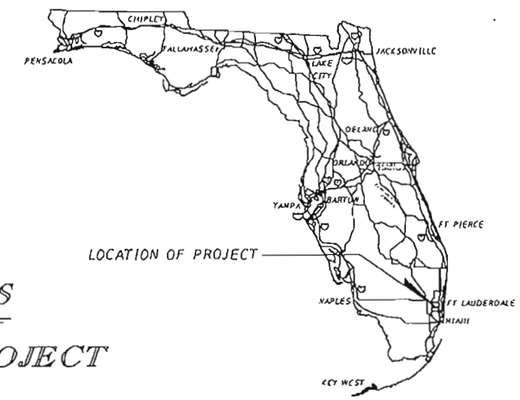
DANIA BEACH MARINA CORPORATION
90 N BRYAN ROAD
DANIA BEACH, FL 33004

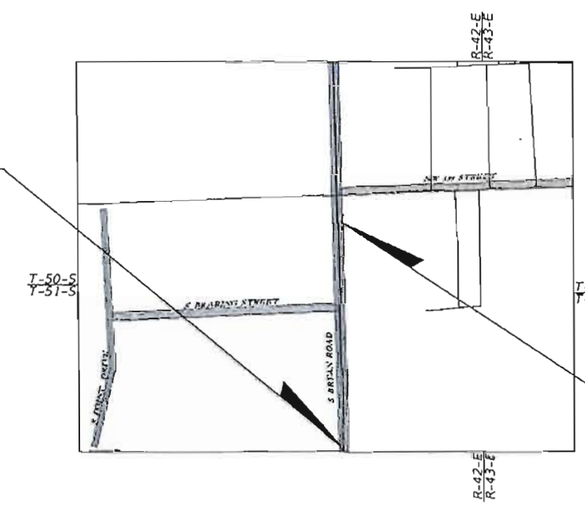
OFF-SITE ROADWAY CONTRACT PLANS

BRIAN ROAD ROADWAY IMPROVEMENT PROJECT

INDEX OF REVIEW PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES
4	TYPICAL SECTION
5	PROJECT LAYOUT
6-8	SOUTH BRYAN ROAD PLAN SHEETS
9-12	MISCELLANEOUS DETAILS
13-28	SOUTH BRYAN ROAD CROSS SECTIONS
29-30	SOUTH BRYAN ROAD SIGNING AND MARKING
31	SIGNING AND MARKING DETAILS
32	EROSION CONTROL GENERAL NOTES
33-34	SOUTH BRYAN ROAD EROSION CONTROL
35	TRAFFIC CONTROL GENERAL NOTES





N
0 300 600
Feet

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
ERIC J. KLEIER, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100

PLANS PREPARED BY:
Kimley»Horn
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
PROJECT NUMBER: 147706000
CERTIFICATE OF AUTHORIZATION: 00000696

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:
FY 2020-21 DESIGN STANDARDS
AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2020
AS AMENDED BY CONTRACT DOCUMENTS.
BROWARD COUNTY MINIMUM STANDARDS
DATED OCTOBER 25, 2005.

THE PUBLIC ROADWAYS INDICATED IN THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH FDOT "DESIGN STANDARDS."

SITE PLAN SUBMITTAL

LIST OF CONTACTS

ELECTRIC
FLORIDA POWER & LIGHT
CINDY RODREGIEZ
4000 DAVIE ROAD EXTENSTION
HOLLYWOOD, FL 33024
(954) 442-6361

NATURAL GAS
TECO PEOPLES GAS
DAVID RIVERA
5101 NW 21ST AVE SUITE 460
FT. LAUDERDALE, FL 33309
(954) 453-0794

WATER
CITY OF DANIA BEACH
RONNIE NAVARRO
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-3615

CABLE
COMCAST CABLE
LEONARD MAXWELL-NEWBOLD
2601 S.W. 145TH AVE
MIRAMAR, FL 33027
(954) 447-8405

BUILDING DIVISION
CITY OF DANIA BEACH
ELEANOR NORENA
100 WEST DANIA BEACH BOULEVARD
DANIA BEACH, FL 33004
(954) 924-6805 EXT. 3645

TELEPHONE
AT&T
EDUARDO IBARRA
8601 W. SUNRISE BLVD.
PLANTATION, FL 33322
(954) 476-2734

SANITARY SEWER
CITY OF DANIA BEACH
RONNIE NAVARRO
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-3615

STORMWATER
BROWARD COUNTY
SURFACE WATER MANAGEMENT
1 N. UNVIERSITY DRIVE, 201A
PLANTATION, FL 33324
(954) 519-1473

FDOT
DISTRICT 4 PERMITTING
ROGER LEMIEUX
REFERENCE PROJECT NO. 227774-1-52-01
3400 WEST COMMERCIAL BLVD.
FORT LAUDERDALE, FL 33309
(954) 777-4372

ENGINEERING
CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT
RONNIE NAVARRO
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-6805

PERMIT SET
NOT TO BE ISSUED AT THE TIME OF CONSTRUCTION

NOTICE
BROWARD COUNTY HIGHWAY CONSTRUCTION AND TRAFFIC CONTROL DIVISION

ROADWAY PLANS
ENGINEER OF RECORD: ERIC J. KLEIER
P.E. NO.: 64076

STATE OF FLORIDA
ERIC J. KLEIER
No. 64076
PROFESSIONAL ENGINEER

Digitally signed by Eric J Kleier
Dn: cn=Eric J Kleier, c=US, o=KIMLEY-HORN AND ASSOCIATES, oid.0.9.2342.19200300.100.1.1=A01410C00000017171A7A0A0000000B3, email=eric.kleier@kimley-horn.com
Date: 2020.08.04 17:12:34 -04'00'

FISCAL YEAR	SHEET NO.
	1

C:\pwworking\uto\d0\prod\eoli1ja\ette\d0\ASSBT\KEYSRD01.DGN

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Digitally signed by Eric J Kleier
DN: cn=Eric J Kleier, c=US, o=KIMLEY-HORN AND ASSOCIATES, ou=A01410C000001717455F50B000000553, email=eric.kleier@kimley-horn.com
Date: 2020.08.04 17:11:12 -04'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN accordance WITH 61G15-23.004, F.A.C.

SW 52ND AND WASHINGTON STREET
INTERSECTION IMPROVEMENTS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES
4	TYPICAL SECTION
5	PROJECT LAYOUT
6-8	SOUTH BRYAN ROAD PLAN SHEETS
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32	EROSION CONTROL GENERAL NOTES
33-34	SOUTH BRYAN ROAD EROSION CONTROL
35	TRAFFIC CONTROL GENERAL NOTES

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SIGNATURE SHEET

SHEET NO. 2

GENERAL NOTES

1. GOVERNING SPECIFICATIONS: STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FLORIDA SPECIFICATIONS DATED 2020 AND PREVIOUS COUNTY MINIMUM STANDARDS DATED OCTOBER 23, 2009.
2. CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA PREPARED BY TRANSPORTATION RESEARCH INC. TRAFFIC DEVICE STANDARDS, LATEST REVISION.
3. ALL ELEVATIONS AND INVERTS ARE REFERENCED TO DATUM OF CONSTRUCTION.
4. THE EXISTING MANHOLE SECTION SHALL BE SMOOTH AND SET TO GRADE.
5. EXISTING SECTION CORNERS AND THE SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION AREA TO BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION USING A REGISTERED LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.
6. ANY TREES WITHIN THE LIMITS OF CONSTRUCTION TO BE TAKEN DOWN AND RESET IN ACCORDANCE WITH PLANS REQUIREMENTS BY THE CONTRACTOR.
7. ALL DATA SHOWN IS NORTH AMERICAN VERTICAL DATUM OF 1988 UNLESS
8. ANY AREA THAT HAS DAMAGED WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DOUBT OF DAMAGE, NOTIFY

   GEOSYTEC INFORMATION CENTER
   ATTN: JOHN MACKENZIE SECTION MAG-182
   1001 EXECUTIVE BLVD
   FITCHBURG, MASSACHUSETTS
   TELEPHONE NO (555) 555-5555

9. THE EXACT LOCATIONS OF PROPOSED SWALES, BACK SLOPE LINES AND LIMITS OF CONSTRUCTION WILL BE IN ACCORDANCE WITH THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
10. CONTRACTOR SHALL REPAIR ALL DRAINAGE DITCH AND CULVERTS TO PROVIDED SLOPE AS DIRECTED.
11. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL SHALL BE REMOVED UNLESS OTHERWISE DIRECTED NOT TO REMOVE. STRUCTURES TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
12. ALL AREAS DISTURBED AND NOT DESIGNED AND SHALL BE SODDED WITH BAHIA SOD. SODDING SHALL BE IN ACCORDANCE WITH SECTION 575
13. THE CONTRACTOR WILL REPAIR ALL AREAS DISTURBED BY THIS CONSTRUCTION TO A CONDITION EQUAL TO OR BETTER THAN THAT NOW EXISTING.
14. STRIPE TO CONFORM WITH OR SUCH SUCH AS EXISTING CURVES AND DIFFERAL SUCCESSIVE, DRIVEWAY SIMILARLY, PAVEMENT AND BASE AND EXCESS EXCAVATION WILL TO BE REMOVED BY CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE UNLESS THE SAME CAN BE USED ON THE PROJECT.
15. THE MAINTENANCE OF TRAFFIC FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE APPLICABLE FDOT INDEX NUMBERS 600 SERIES AND THE SUPPLEMENTS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS THE DEPARTMENT OF TRANSPORTATION FLORIDA SHALL BE FOLLOWED IN THE DESIGN, CONSTRUCTION, MAINTENANCE, REMOVAL OF TEMPORARY TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS, FLAGMAN TO PROTECT THE PUBLIC AND WORK FOR HAZARDS WITHIN THE PROJECT LIMITS. PEDESTRIAN AND VEHICULAR TRAFFIC SHALL BE MAINTAINED AND PROTECTED AT ALL TIMES
16. IF THE PERMITTED WORK IS ON A WATERWAY THAT HAS BEEN DESIGNED AS A MANATEE OR DOLPHIN EXCLUSION ZONE, THE APPLICANT, AT THE PRE-CONSTRUCTION CONFERENCE IS REQUIRED TO PRESENT, AT LEAST ONE THE WORK PLAN AN EXPLICIT FUNCTIONAL INFORMATION PLAN TO ADDRESS INTERAGENCIES SUCH AS MANATEES.
17. REMOVAL MUST BE PERFORMED DURING THE PHASE AND EXPOSE OF CONSTRUCTION TRAFFICS TO AND FROM THE PROJECT SITE. WARNING SIGNS MUST BE PLACED ADJACENT NEIGHBORS OF PROJECT DURING THE CONSTRUCTION.
18. CONTRACTOR SHALL CONTACT THE LOCAL MEDIA A WEEK PRIOR TO ANY LANE CLOSURES IN THE COUNTY ROAD SYSTEM AS IT WILL OCCUR DURING THE WORK IN WHICH THE SAME IS MORE THAN ONE DAY.

   CONTACT: BROWARD COUNTY
   TRAFFIC ENGINEERING DEPARTMENT

19. ALL THE LANE CLOSURES LISTED SHALL BE CONFIRMED WHEN LANES ARE NOT CLOSED. NO LANES ARE TO BE CLOSED DURING RUSH HOUR AND ALL LANES ARE TO BE OPENED BY 6:00 PM.
20. AT THE END OF EACH WORK PERIOD, ANY ROAD DEBRIS THAT ARE ADJACENT TO THE TRAVEL WAY OF THE COUNTY ROAD SHALL BE REMOVED IN ACCORDANCE WITH STANDARD INDEX AND ON SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER WALL AT THE CONTRACTOR'S EXPENSE
21. THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR BEFORE CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES WITH REPRESENTATIVES OF THE CONTRACTOR. CONTRACTOR SHALL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION
22. THE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR 2 WEEKS OR MORE IN ADVANCE OF ANY EXCAVATION IMPACTING THEIR UTILITIES. AT LEAST ONE OF THEIR REPRESENTATIVES CAN BE ON SITE.
23. THE CONTRACTOR IS TO VISIT EARTH WITH WORKING ON AN AREA OF AREAS OF WATER AND TRANSMISSION LINES, UNDERGROUND UTILITIES, EACH EVERY DAYS.
24. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 556.105 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES
25. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
26. THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) FOR FIELD LOCATIONS 2 BUSINESS DAYS BEFORE DIGGING NEAR UNDERGROUND UTILITIES
27. CONTRACTOR TO ENSURE THAT ALL PROPOSED UTILITY CONSTRUCTION IS IN FULL COMPLIANCE WITH THE PUBLIC COMMON LIST OF DANIA BEACH UTILITY DETAILS.
28. DRIVEWAYS THAT ARE DISTURBED DUE TO BE RECONSTRUCTED TO THEIR ORIGINAL OR BETTER CONDITION UNLESS OTHERWISE STATED ON PLANS.
29. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON PRIVATE PROPERTY WITHOUT APPROVAL FROM THE OWNER
30. CURBINGS IDENTIFIED TO BE CONSTRUCTED AS PER FDOT INDEX 520
31. ALL SIDEWALKS SHALL HAVE PRIOR FINISH AND ALL SIDEWALK JOINTS TO BE DETAILED PER DETAILS PER FDOT INDEX 310 FOR ALL SIDEWALKS. ALL JOINTS SHALL BE SMOOTH AS PER FDOT STANDARDS.
32. ALL EXISTING BASE MATERIAL REMOVED IN EXCAVATION SHALL BE REUSED AS REQUIRED BASE MATERIAL.
33. REMOVE ALL WEED, DEBRIS, AND POOR MATERIAL WITHIN THE LIMITS OF CLEARING AND CLEARING PRIOR TO THE PROPOSED WORK WITH CLEAN, COMPACT MATERIAL AS MAY BE SPECIFICATIONS TO 100% OF MAXIMUM DENSITY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND FROM SITE TESTED BEFORE PLACING NEAT LIFT OF FILL REMOVAL TO INCLUDE REPLACEMENT
34. PER MUTCD, LATEST EDITION, FLAGGER MUST BE ALL MATERIAL SHALL BE CLEAN TO BE, AND MUST BEACON, AND SHALL HAVE A MINIMUM SIZE OF NOT LESS THAN 1 FOOT. ALL STAMPED MATERIAL AND VEGETATION SHALL BE REMOVED FROM ANY FILL MATERIAL WITH THE APPROVAL OF THE PROJECT CONSTRUCTION AND ENGINEERING DIVISION. ROCKS THAT ARE REMOVED MUST BE LOCATED AND USED AS BACKFILL MATERIAL OR FILL SLOPES AS A 2:1 OR 3:1 SLOPE, NOT AS ROADFILL.
35. ALL EXCAVATED MATERIAL SHALL BE PLACED IN SHEETS NOT TO EXCEED 1 FOOT IN THICKNESS, WITH EACH LAYER COMPACTED TO 100% OF MAXIMUM DENSITY, PER ASTM D-1557. ANY TRUCKS THAT HAVE BEEN PERMITTED, UNDER THE SUPERVISION OF THE PROJECT CONSTRUCTION AND ENGINEERING DIVISION, MUST BE PLACED SUCCESSIVELY WHERE SAME AREAS HAVE TWO OR MORE CONTACTED TO 100% OF MAXIMUM DENSITY, PER ASTM D-1557.
36. IN THOSE TRUCKS SHALL BE THOSE THE PERMITTED, OTHERWISE, ANY AND SHOULDERS AT INTERVALS OF TWO HUNDRED (200) FEET IN LENGTH AS DIRECTED BY THE PROJECT CONSTRUCTION AND ENGINEERING DIVISION REPRESENTATIVE
37. I. FUGITIVE DUST: PLEASE WE SHALL BE TAKEN ON CONTRACTOR DURING CONSTRUCTION TO FOLLOW THE INSIDE SET OF PLANS
   A. SILT FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF THE PROJECT ADJACENT TO ANY SITE DISTURBING ACTIVITIES, THAT SLOPE AWAY FROM THE RIGHT OF WAY
   B. STAKE TEMPORARY BARRIER SHALL BE INSTALLED UPSTREAM OF ANY HIGH LOSS STORM STRUCTURES
   C. ALL UNDERGROUND STRUCTURES ARE TO BE PROTECTED DURING CONSTRUCTION
   D. ALL FENCING, GRATING, SIGNING AND SIDEWALK SHALL BE MAINTAINED DURING THE CONTRACT LIFE. ALL DAMAGED WORK SHALL BE RESTORED AS CLOSE.
   E. ANY ADDITIONAL PLACEMENT OF SEDIMENT CONTROL CONSTRUCTION WILL BE SITE SPECIFIC SHEETS
38. AT LOCATIONS WHERE PIPE AND DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED IN CONJUNCTION WITH THE EXISTING PAVEMENT, THE REPLACEMENT OF SIDEWALKS, BASE, ASPHALT, ETC. NECESSARY FOR EXCAVATIONS IS TO BE INCLUDED IN THE COST OF THE
39. ALL SIDEWALK RAMPS SHALL MEET THE ALL REQUIREMENTS OF FDOT STANDARD INDEX 304 AND ADA IN THE PROVISION OF PEDESTRIAN TRAFFIC. THERE IS ALSO NO SHALL COMPLY WITH ALL ADA REQUIREMENTS.
40. THE WIDTH OF RAMPS SHALL BE CLEAR FOR PEDESTRIAN PEDESTRIAN SAFETY DURING CONSTRUCTION IS PERMISSIBLE TO BE LIMITED TO TEMPORARY CLOSE A SIDEWALK, IT SHALL BE DONE WITH THE EXPRESS DESCRIPTION THAT AN ALTERNATE ROUTE WILL BE PROVIDED (SIDEWALK DIVERSION) AND PROVIDED AS QUICKLY AS POSSIBLE
41. THE FOLLOWING GENERAL NOTES ARE REQUIRED BY THE LOCAL ENFORCED ORDINANCE LISTED. THEY ARE NOT MEANT TO BE ALL INCLUSIVE. IT IS THE ENGINEER'S RESPONSIBILITY TO FOLLOW ANY NOTES WHICH MAY FOLLOW THE UNDER THE THE CONTRACTOR TO ADD ADDITIONAL REQUIREMENTS AS NEEDED.

   THE CONTRACTOR SHALL CONTACT 48 HOURS OR TWO BUSINESS DAYS PRIOR TO ANY REQUIRED INSPECTION. TO SCHEDULE INSPECTIONS, PLEASE CALL 3000 SE DANIA BLVD. 5:00 PM TO 6:00 PM MONDAY THROUGH FRIDAY EXCEPT HOLIDAYS.
42. ANY REVISIONS TO PLANS PERMITTED BY SOUTH MUST BE APPROVED BY SFWD PRIOR TO CONSTRUCTION
43. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED AND HELD AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING CONSTRUCTION.
44. A SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO SFWD AFTER APPROVAL BY THE ENGINEER OF RECORD.
45. DURING CONSTRUCTION, SFWD PERSONNEL WILL INSPECT THE FOLLOWING:
   - INSTALLATION OF ALL UNDERGROUND DRAINAGE FACILITIES BEFORE BACKFILLING.
   - BACKFILLING OF DRAINAGE TRENCHES
   - SHAPING OF CANAL AND LAKE BANKS FROM THE DEEP CUT TO THE UPLAND EASEMENT LINE OR AS REQUIRED BY SFWD
   AND ANY OTHER DRAINAGE RELATED CONSTRUCTION PLANS
   RE-INSPECTIONS OR EXTRAORDINARY INSPECTIONS WILL BE SUBJECT TO ADDITIONAL FEE CHARGES BY SFWD
46. THE CONTRACTOR CONSTRUCTING OR EXCAVATING LAKES OR OTHER WATER BODIES SHALL ELIMINATE EXTRANEOUS LIGHTS TO ENSURE THAT THE SIDE SLOPES AND DEEP CUT LINES ARE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS FOR THE DEVELOPMENT. THE CONTRACTOR OR OWNER SHALL REFORESTATION, AS ACCEPTED BY SFWD, WITHIN 4 MONTHS, FROM A FLORIDA REGISTERED VERIFICATION BY THE VERIFICATION OF THE DEEP CUT LINES PRIOR TO ENTERING THE LAKE SLOPES. THIS SURVEY SHALL BE PERFORMED PRIOR TO THE DEVELOPMENTALTOR BEGINNING REFORESTATION OF ANY PROPERTY PARTY ADJACENT TO THE WATER BODY. IN THE EVENTS THE CONTRACTOR EVER DITS THE WATER BODY, THE CONTRACTOR/OWNER SHALL REPORT TO SFWD THE SOLUTION TO CORRECT THE DITCH ERROR. ANY SOLUTION REPORT TO SFWD MUST BE APPROVED BY SFWD BEFORE THE CONTRACTOR BEGINS THE PROPOSED CORRECTIVE ACTION
47. PRIOR AND DRAINAGE "AS-BUILT" PLANS CERTIFIED BY THE ENGINEER OF RECORD AND APPROVED BY SFWD'S ENGINEER AND INSPECTOR MUST BE SUBMITTED BEFORE THE RELEASE OF THE BOND OR LETTER OF CREDIT. AS-BUILTS SHALL BE PROVIDED AS AN OVERLAY OF THE APPROVED CONSTRUCTION DRAWINGS AND AT THE SAME SCALE AS ORIGINALLY SUBMITTED. AS-BUILT SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 5.6 AND 5.7 OF SFWD'S CONTROL MANUAL. ALL AS-BUILTS MUST BE PROVIDED ON AN AUTOCAD DWG.
48. AS-BUILT DRAWINGS OF WATER BODIES SHALL INCLUDE THE DATA NOTED IN THE "AS-BUILT LAKE SECTION" IN EXHIBIT 3A OF SFWD'S CONTROL MANUAL. THE AS-BUILT CROSS SECTIONS SHALL BE PROVIDED AT NOT MORE THAN 200 FEET INTERVALS AND AT ALL CUTTING POINTS CONSTRUCTED WITHIN OF ANY LAKE.
49. SFWD WILL NOT COMPLETE THE FINAL INSPECTION UNTIL THE AS-BUILT PACKAGE WHICH MUST INCLUDE THE ENGINEER'S CERTIFICATION AND DATA RESULTS FOR SEDIMENTATION OF LAKE AND MAINTENANCE EASEMENTS ARE RECEIVED.
50. PLEASE NOTE THAT ALL EXISTING DRAINAGE SYSTEMS AFFECTED BY THE CONSTRUCTION WITHIN THE RIGHT OF WAY FOR COMPLETION OF THE PROJECT SHALL BE CLEANED
51. ALL EXISTING DRAINAGE STRUCTURES EQUIPMENT TO BE REMOVED TO BE REMOVED WHEN UNDER UTILITIES EXISTING AS MENTIONED ABOVE PLAN TO THE WORK OF CONSTRUCTION ANY NOTES WHICH CHANGE IN THE SOURCE EQUIPMENT SHALL BE REPLACED IN THE INSTALLATION AT THE CONTRACTOR'S EXPENSE

Broward County Traffic Engineering Division Communications Notes

To be placed within plan set

(Revised 10/3/2018)

"Communications Notes"

The agency responsible for maintenance of the traffic signals and control equipment in Broward County Traffic Engineering Division (BCTED) are system communications equipment, cabling and related equipment that comply with Broward County's wired indoor of the minimum standards as expressed in the "Standards and Specifications - Communication Infrastructure" document. Please refer to (BCTED's) Communications Manual and Procedures for additional information. Broward County Traffic Engineering Division is not responsible provide that do not meet these standards and specifications. If their right out boxes already exist at an intersection, no additional that right out boxes will need to be installed. For a copy of these standards refer to the Broward County web site at www.broward.org/trafficengineering under publications.

If there are Copper Interconnect Cables within your project limits or within 1000 feet of your project limits, contact the Communications Manager at bcomm@broward.org or 954-847-2713.

If there are Fiber Optic Cables within your project limits or within 1500 feet of your project limits contact the Communications Manager at bcomm@broward.org or 954-847-2713.

If there are cellular communication within your project limits contact the Communications Manager at bcomm@broward.org or 954-847-2713

All BCTED communications cables/conduit shall be located a minimum of 48 hours in advance

Broward County Traffic Engineering Division
Procedure for Notification of Construction Operations

Cable Warning Tape & Wire Locating Tracer

When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor shall provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification shall be delivered via messenger mail (email) to the Traffic Signal Technician at [illegible]. Notification shall include detailed address, beginning/ending, purpose, location and duration. The disruption may not be more than 4 consecutive business days. Where possible, the disruption shall be during off peak hours beginning at 8:00am and ending at 3:00pm.

Fiber Optic Cable Warning Tape

When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor shall provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification shall be delivered via messenger mail (email) to the Communications Manager at bcomm@broward.org. The notification shall include detailed address, beginning/ending, purpose, location and duration. The disruption shall not be more than 3 consecutive business days. Where possible, the disruption shall be during off peak hours beginning at 8:00am and ending at 3:00pm.

Include the following on any copies of utility construction or within a "Utility Owners/Contact Persons" table:

Underground Commercial Power Cables - Report Damage Broward County Traffic Engineering Division (BCTED) 954-847-2713

BROWARD COUNTY

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION

MAINTENANCE OF TRAFFIC - SCHOOL/PEDESTRIAN

The Maintenance of Traffic plan, provided by the Contractor, must include provisions for pedestrian and/or school student traffic as well as vehicular traffic. The following are minimum requirements:

1. The safe walk route of school students within the limits of the construction zone shall be maintained during student arrival and dismissal times. If the owners roadway surface cannot be maintained, then a temporary walkway surface shall be provided. The safe walk route shall be maintained from the intersection nearest the project to the project's entrance. The entire route shall meet project pedestrian accessibility of development standards in compliance with FDOT Design Standards meet the ADA as well as meeting all ADA requirements.
2. All detour/alternate pedestrian walkways and designated crosswalks shall remain in open use during the student arrival and dismissal times. All detour/alternate pedestrian walkway locations to a designated safe route shall remain operational unless conditions permitted from the work area.
3. In the event that a temporary crossing of any portion of the designated safe route cannot be maintained, the Contractor shall notify the Broward County Department of Environmental Protection (DEP) and DEP's Contractor of the [illegible] to obtain the route in order to establish an alternate pedestrian.
4. It shall be the Contractor's responsibility to install any necessary pavement, wheel stops, pavement markings and signage and/or pedestrian accessible signal modifications to accommodate the crossing of normal walk route throughout the entire length of the project.
5. It is not the Contractor's responsibility to provide Brow County School Crossing Guards or Off Duty Police Officers to assist students at all stations other than those previously designated. The Contractor may use Program but ONLY if they are both Certified as a School Crossing Guard.
6. PRECLUSIONS: [illegible] in the scheduling of construction the Contractor shall notify the Broward Schools Department of Brow-ward County Traffic Engineering Division (954) 847-2708 or at [illegible] to minimize the necessarily noisy construction.
7. It shall be the Contractor's responsibility to notify the Broward County School Board Point of Contact Department [illegible] of any work that may impact any bus routes.

   [illegible]

   Upon discussion with the aforementioned personnel, and if deemed necessary, a presentation/plan modeling will be held to determine if bus stops will be moved and necessary arrangements for transporting the students. The Contractor shall be responsible for notifying the Broward County Traffic Engineering Division (954) 847-2708 will be notified and may assist the pedestrian/student mobility.
8. The Contractor shall be responsible for obtaining an approved Maintenance of Traffic Plan (MOP) specifying the alternate school/pedestrian pathways, through the Broward County Traffic Engineering Division or the Local Municipality, depending on the jurisdiction involved. The alternate submitted to the MOT are fully effective as part of the approved construction. The Contractor shall be responsible for mitigating that as work associated with the project is in compliance with all the requirements of the approved MOT.
9. The Contractor shall ensure that there are [illegible] signs and signs installed within the designated reduced speed zones prior to any work throughout the project.

PERMIT SET
MUST BE ON SITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH THE BROWARD COUNTY CODE OF ORDINANCES AND CURRENT BROWARD COUNTY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THE PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit for Construction must be obtained from the Broward County Highway Construction and Engineering Division prior to the issuance of a construction permit. The original must be kept on site.

NOTICE
INSPECTION REQUIRED
24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-847-4000 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONFORMS WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING DRAINAGE AND SIGNAGE

BY: _____ DATE: _____
DIRECTOR OF HIGHWAY CONSTRUCTION & ENGINEERING

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
410 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION 00000696

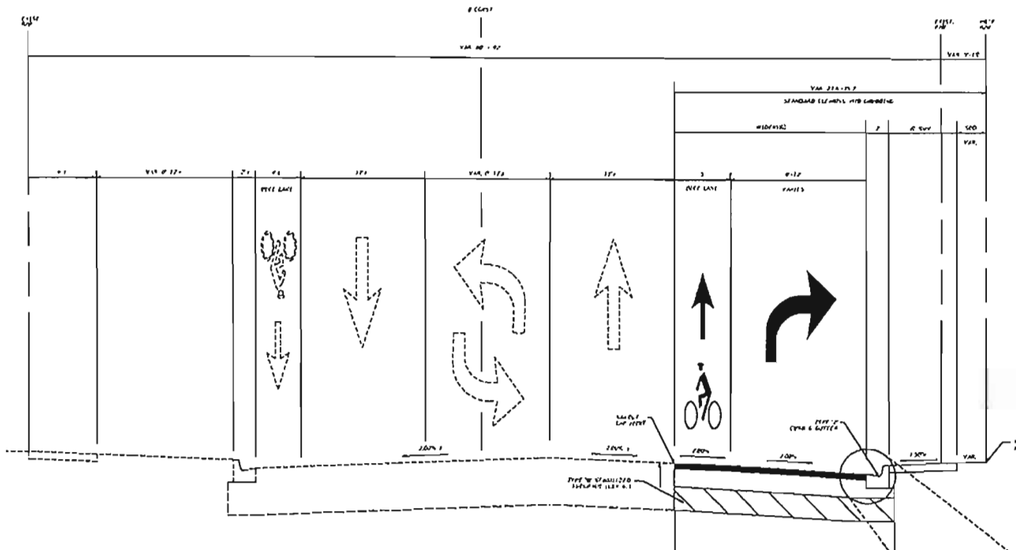
DANIA BEACH MARINA

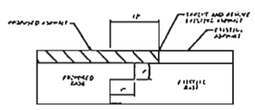
DANIA BEACH MARINA CORPORATION

GENERAL NOTES

SHEET NO. 3

MATT.LeMAIRE 8/12/2020 3:44:00 PM C:\pwworking\13\pwrdata\dm-mt13ovell\dms60911\GENERD01.DGN

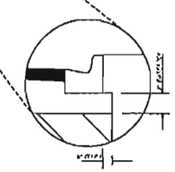




LAP JOINT DETAIL

BRYAN ROAD

STA. 205+32.19 TO STA. 217+37.77



CURB PAD DETAIL (TYP.)

PERMIT SET

NOTICE
INSPECTION REQUIRED

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. ELFIER, P.E.
P.E. LICENSE NUMBER 64016
625 26th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

BRYAN ROAD
TYPICAL SECTION

SHEET NO.
4

Matt.LeRette 8/12/2020 3:44:13 PM C:\pw_work\64\ldn\pwpod\dc01.lerette\d0068912\TYPSRD01.DGN

DCHCFD REF. NO: XXXXXXXX

TO I-95

STIRLING ROAD

S. BRYAN ROAD

SHEET 6	SHEET 7	SHEET 8

NW 1ST STREET

0 70 100
Feet

PERMIT SET
MUST BE ON SITE AT ALL TIMES DURING CONSTRUCTION

ALL WORK MUST COMPLY WITH APPLICATION PLANS, PUBLIC WORKS STANDARDS, LANDSCAPE CODE, ETC. TO INCORPORATE ALL BROWARD COUNTY PUBLIC CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY PUBLIC WORKS DIVISION ENGINEERING SECTION PRIOR TO COMMENCING CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.

NOTICE
INSPECTION REQUIRED

TO INSPECTIONS MAY BE MADE TO BROWARD COUNTY PUBLIC WORKS DIVISION ENGINEERING SECTION AT 954-357-6500 FOR INSPECTION.

BROWARD COUNTY PERMIT CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN REVISION NO.
☐ PLAT REVISION

☐ PUBLIC WORKS DIV. MAY APPROVAL FOR PATHWAY DRAINAGE AND DRAINAGE

BY:_____ DATE:_____
(SIGNATURE REQUIRED)
(PRINTED NAME & TITLE)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. ELCICA, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

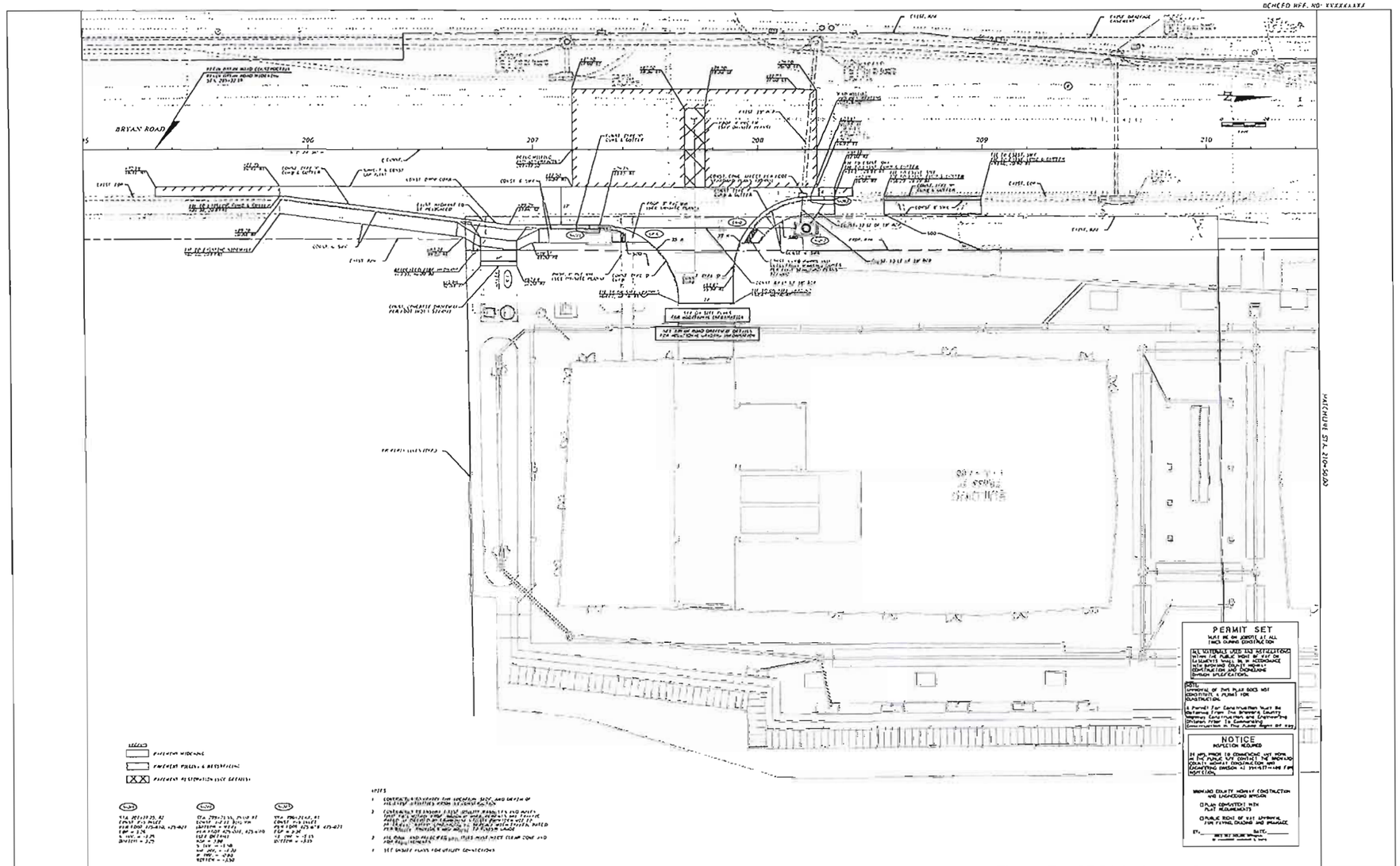
DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

PROJECT LAYOUT

SHEET NO.
5

Matt.LeRette 8/13/2020 3:24:18 PM L:\pro\013100\ch2\pr\pda\matt.lerette\des63972\PLAT001.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. ELCIER, P.E.
P.E. LICENSE NUMBER 60076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION, 00000696

DANIA BEACH MARINA

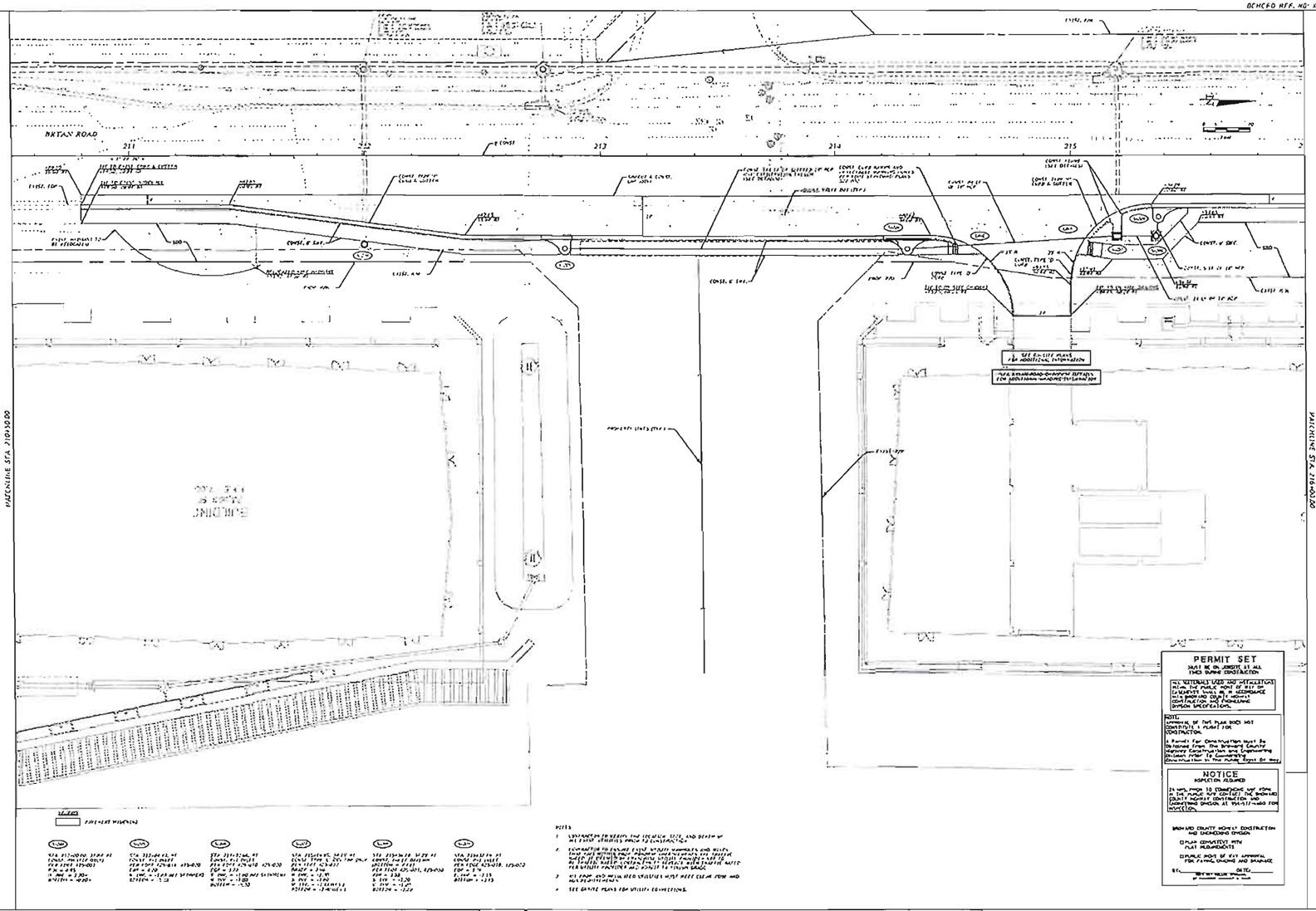
DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD PLAN SHEET

SHEET NO. 6

Matt.Lefferts 8/4/2020 2:45:24 PM

BCHCFD HFF. NO: XXXXXXXX



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. SLEICH, P.E.
P.E. LICENSE NUMBER 64016
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

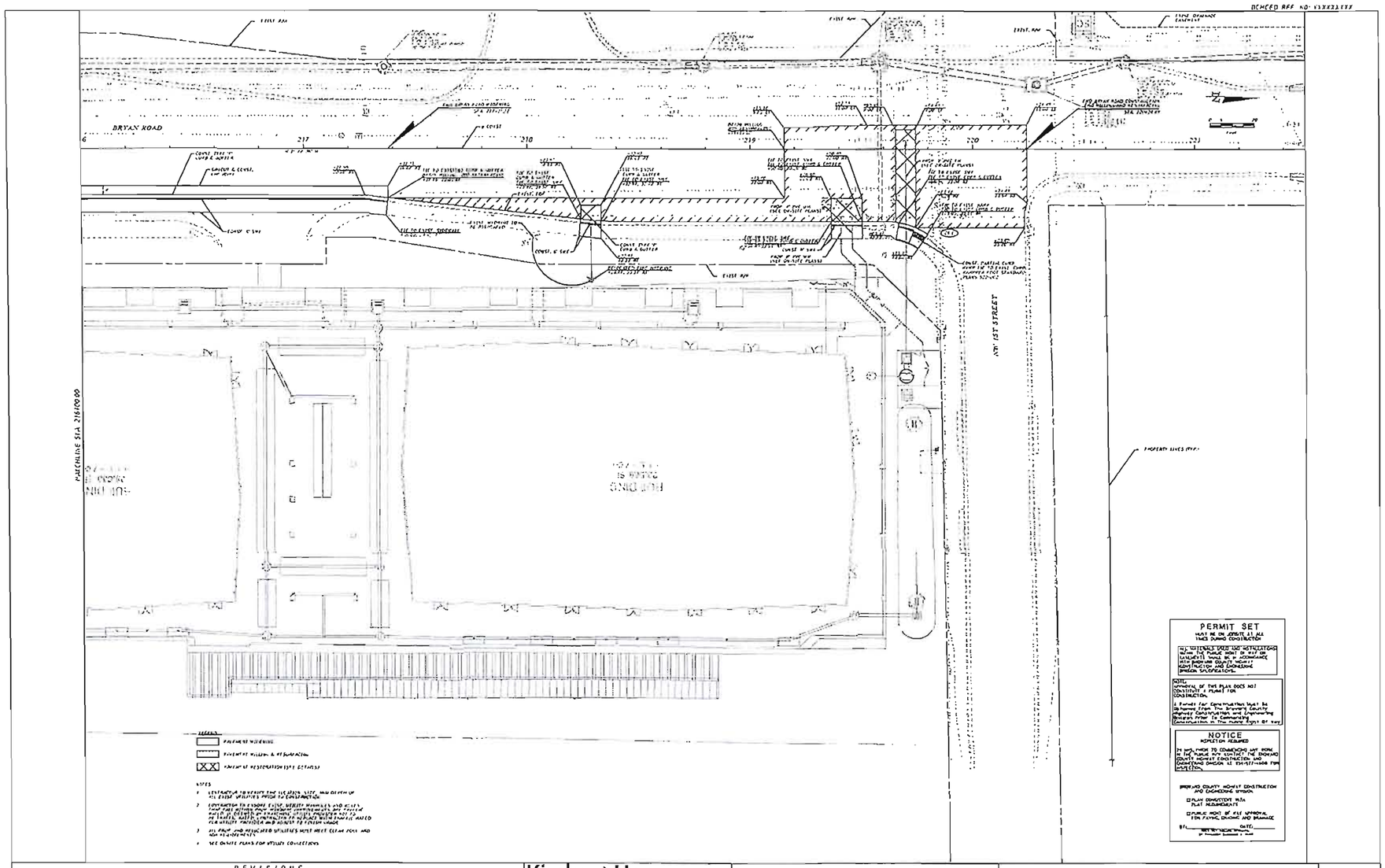
DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD PLAN SHEET

SHEET NO. 7

Matt.LeMette 8/31/2020 3:43:30 PM c:\pwworking\1\n\pwpdoc\matt.lemette\d0068724\PLAN002.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC F. ELCICA, P.E.
P.E. LICENSE NUMBER 64276
445 24th STREET, SUITE 700
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000096

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD PLAN SHEET

SHEET NO. 8

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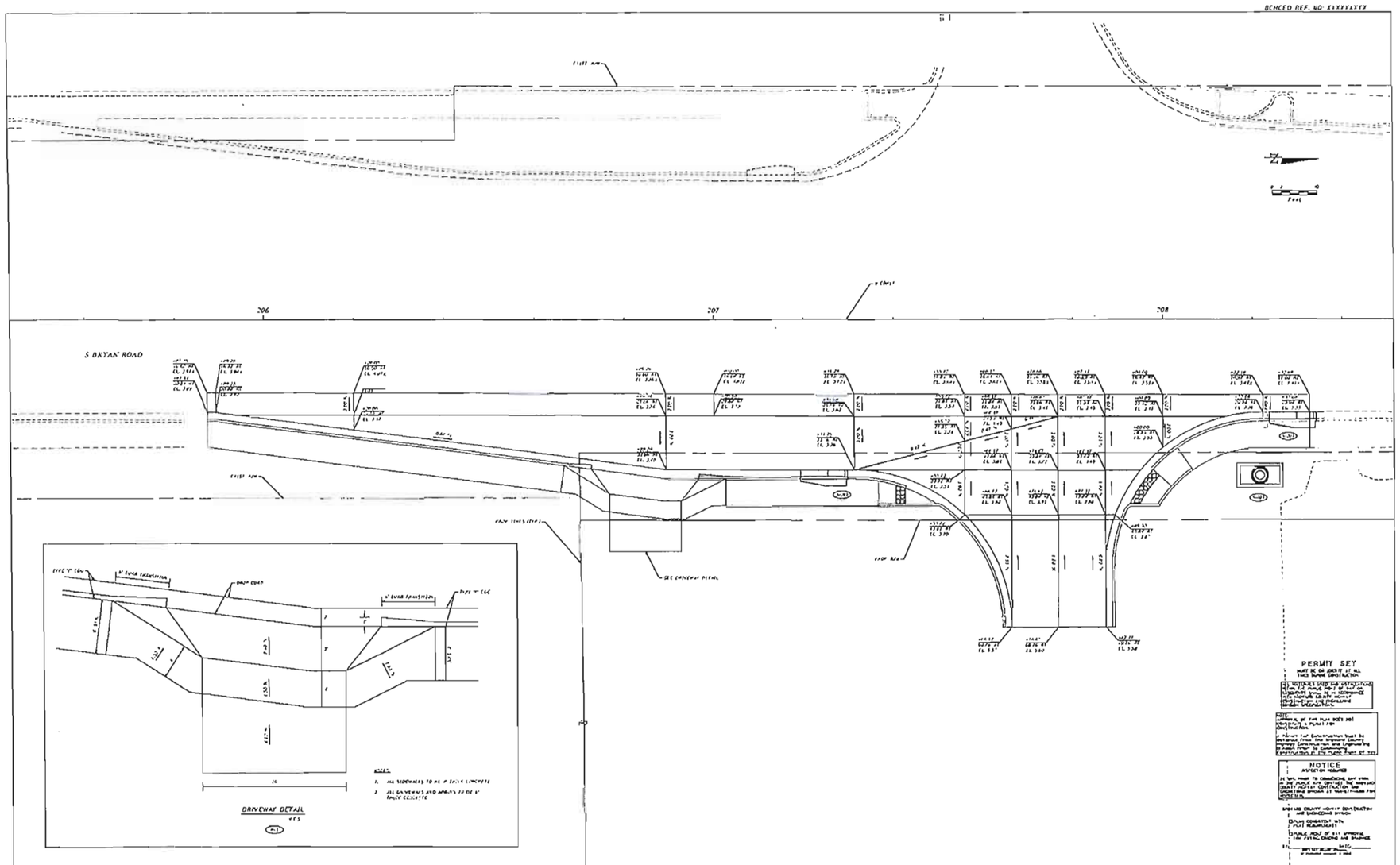

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64036
625 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

MISCELLANEOUS DETAILS

SHEET NO. 9

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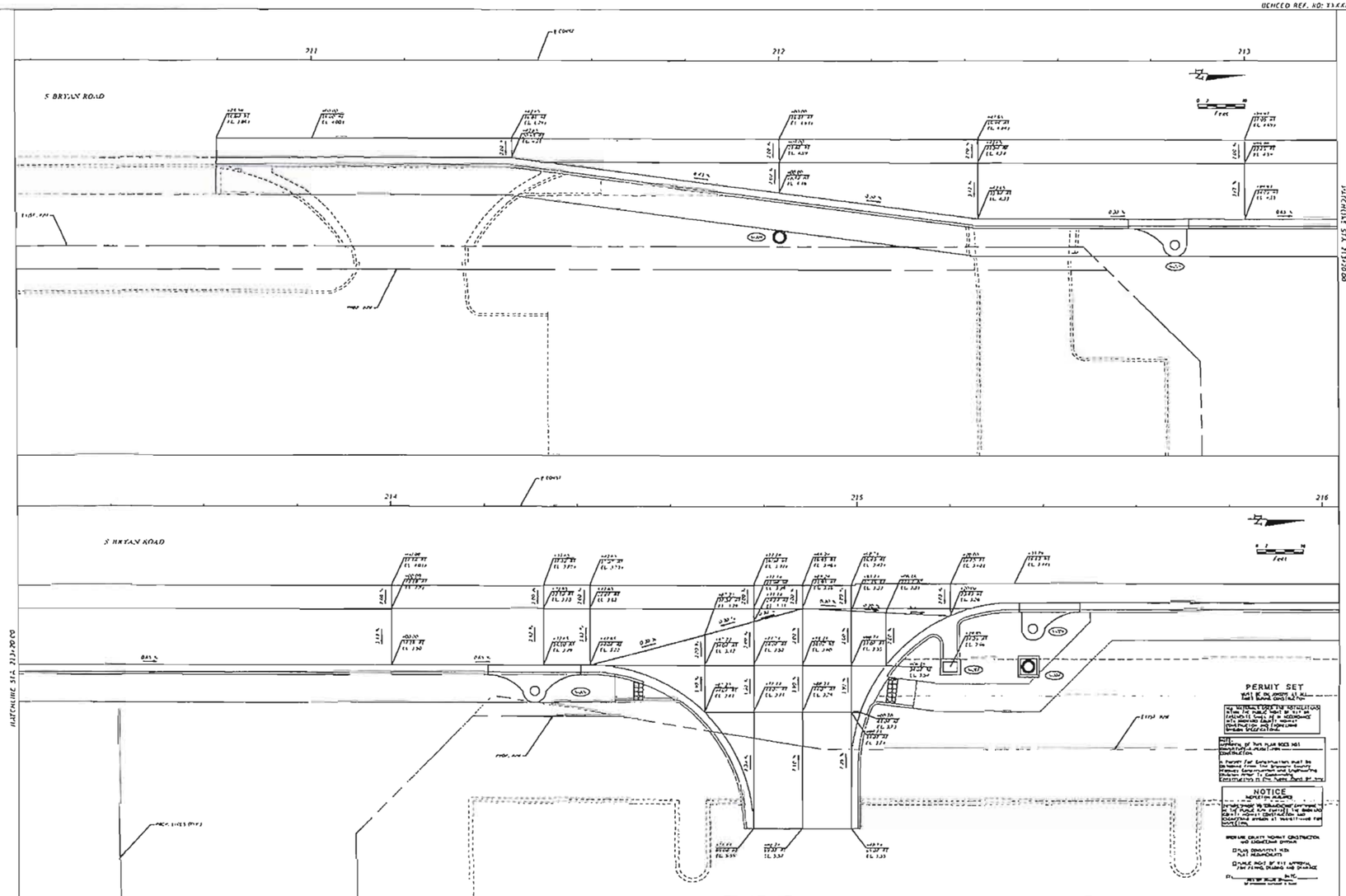

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

CRAIG J. KLEICK, P.E.
P.E. LICENSE NUMBER 64076
225 2ND STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-1100
CERTIFICATE OF AUTHORIZATION: 000006596

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

MISCELLANEOUS DETAILS

SHEET NO. 10

Matt Lefiette 8/4/2020 3:45:40 PM

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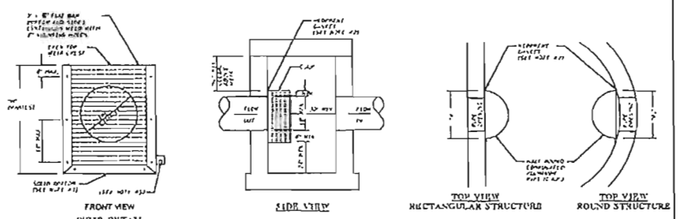


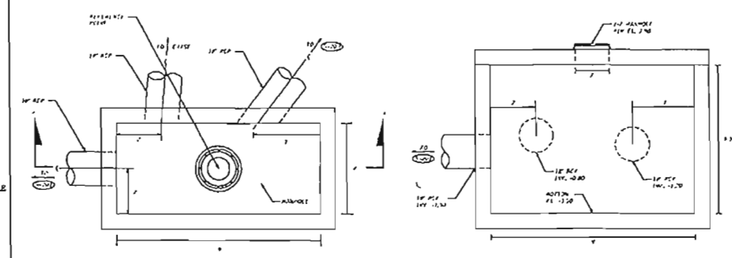
PIPE DIAM	W (IN)	W2 (IN)	T (GAUGE)	H (IN)
12"	12"	12"	14	6
15"	15"	15"	14	7
18"	18"	18"	14	8
24"	24"	24"	14	10
30"	30"	30"	14	12
36"	36"	36"	12	15
42"	42"	42"	12	17
48"	48"	48"	12	20
54"	54"	54"	12	22
60"	60"	60"	12	25
66"	66"	66"	12	27

W: RECTANGULAR STRUCTURE
W2: ROUND STRUCTURE

NOTES:

1. FABRICATE WEIR OF 14GA THICK STEEL (GAUGE) AS PER GUIDE OR ALTERED AS FIELD OPENING IS THE BUILDER FOR THE WEIR.
2. REMOVABLE ADHESIVE BACKED GASKET ON FLANGED PIPE IF 1/2" GAP OF INSTALLED ON THE WEIR AND FOR 1/2" ALL BAFFLES ON BOTTOM OF WEIRS.
3. WEIR PLATE WEIR TO BE FASTENED IN PLACE WITH 1/2" STAINLESS STEEL PEM NUTS, OR APPROVED EQUAL.
4. FOR GRAVITY BAFFLES AND WEIRS ARE NOT REQUIRED.
5. MOUNTING BRACKETS MAY BE USED TO FIX WEIR OR FOR INSTALLATION OF WEIR STRUCTURES. WELDING TO WEIR WALLS IS NOT ALLOWED.

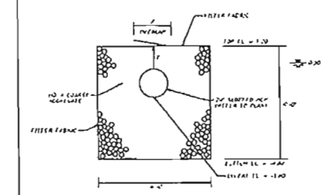
WEIR DETAILS
N.T.S



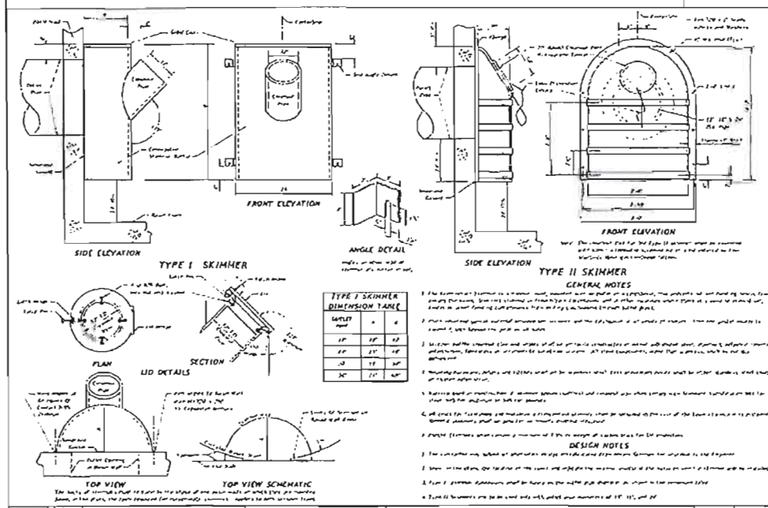
(S-202) CUSTOM DRAINAGE STRUCTURE
N.T.S.

NOTES:

1. ALL STRUCTURE WALLS TO BE 8" IN THICKNESS



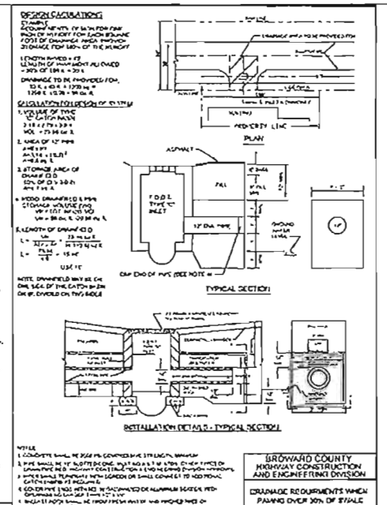
EXFILTRATION TRENCH DETAIL
N.T.S.

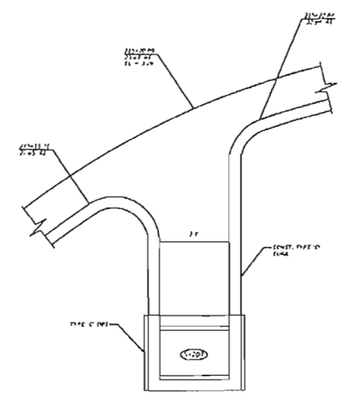


TYPE I SKIMMER DIMENSION TABLE		
OUTLET PIPE	A	B
12"	18"	12
15"	21"	15
18"	24"	18
24"	30"	24
30"	36"	30

DESIGN NOTES

GENERAL NOTES





FLUME DETAIL
N.T.S

PERMIT SET

NOTICE

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

DRAINAGE REQUIREMENTS WHEN PAVING OVER 30% OF RIVALE

01/21/04		2016 DESIGN STANDARDS	SKIMMERS FOR FRENCHDAIN OUTLETS	241	1 of 1

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIK A. CICICA, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-1100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

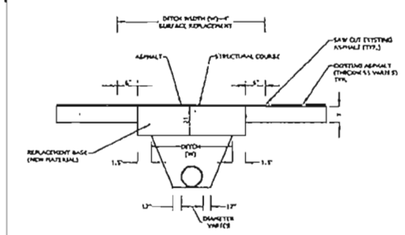
DANIA BEACH MARINA CORPORATION

MISCELLANEOUS DETAILS

SHEET NO. 11

MCHCED REF. NO: XXXXXXXX

BROWARD COUNTY PUBLIC WORKS DEPARTMENT		STANDARD DETAIL



NOTES:

1. BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL.
2. BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM LAYERS (LOOSE MEASUREMENT) AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE PERPENDICULAR SAW CUT.
4. SURFACE MATERIAL SHALL BE CONSISTENT WITH THE SURROUNDING SURFACE MATERIAL.
5. BASE MATERIAL SHALL HAVE A MINIMUM CALIFORNIA BEARING RATIO OF 30%.
6. SUB GRADE MATERIAL SHALL BE GRANULAR AND ANGULAR AND SHALL HAVE A MINIMUM LBR OF 40.
7. IF THE DITCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" THICK ASPHALT CONCRETE PATCH TO SEAL THE FILL MATERIAL FROM RAINFALL UNTIL REPLACED WITH A PERMANENT PATCH.
8. FOR STATE ROADS REFER TO FDOT SPECIFICATIONS AND REQUIREMENTS.

Y = EXISTING LIMEROCK BASE THICKNESS.

REPLACES FORMER DWG NO.19B REVISED 5/14/2018	RESTORATION OF ROADWAY CUT FOR PERPENDICULAR UTILITY INSTALLATION	FIGURE 183

PERMIT SET

NOTICE
INSPECTION REQUIRED

BROWARD COUNTY PUBLIC WORKS CONSTRUCTION AND ENGINEERING DIVISION

DALIAN CONCEPT WITH PLAT REQUIREMENTS

DATE OF 1ST APPROVAL PER PLANNING, ZONING AND BUILDING

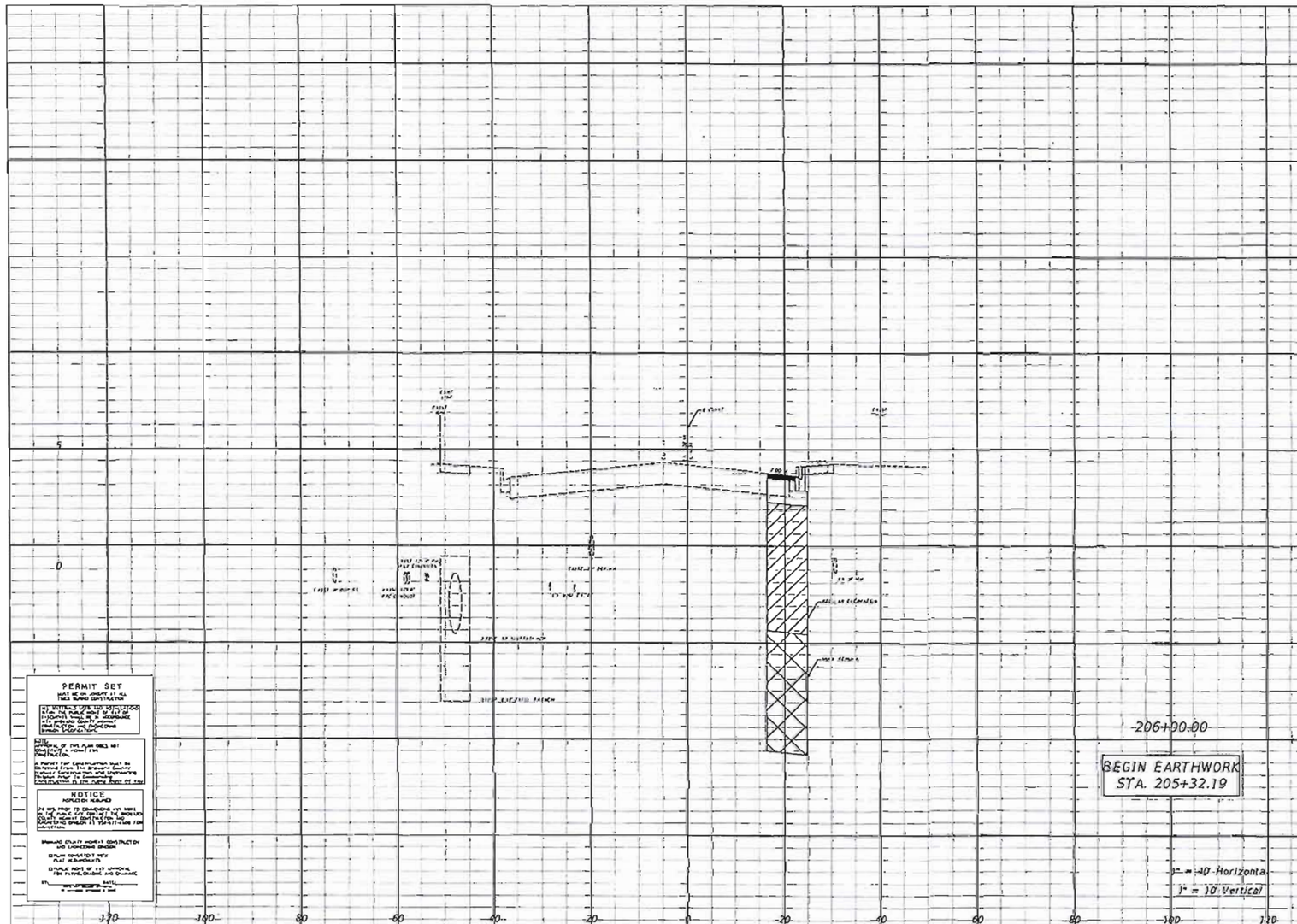
BY:_____ DATE:_____

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

DANIA BEACH MARINA	PAVEMENT RESTORATION DETAILS	SHEET NO.
DANIA BEACH MARINA CORPORATION		12

Matt.LeRette 8/17/2020 3:46:03 PM t:\powerbiing\kh\projects\all letters\dms68917\SPD1H002.dgn



BCHCED REF. NO: XXXXXXXX

Regular Exc.		Embankment	
A	V	A	V
56.7		0.0	
	0.0		0.0

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. KLEICK, P.E.
P.E. LICENSE NUMBER 64016
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH
MARINA CORPORATION

SOUTH BRYAN ROAD
CROSS SECTIONS

SHEET NO.
13

MattLeRoller 8/4/2020 3:46:12 PM

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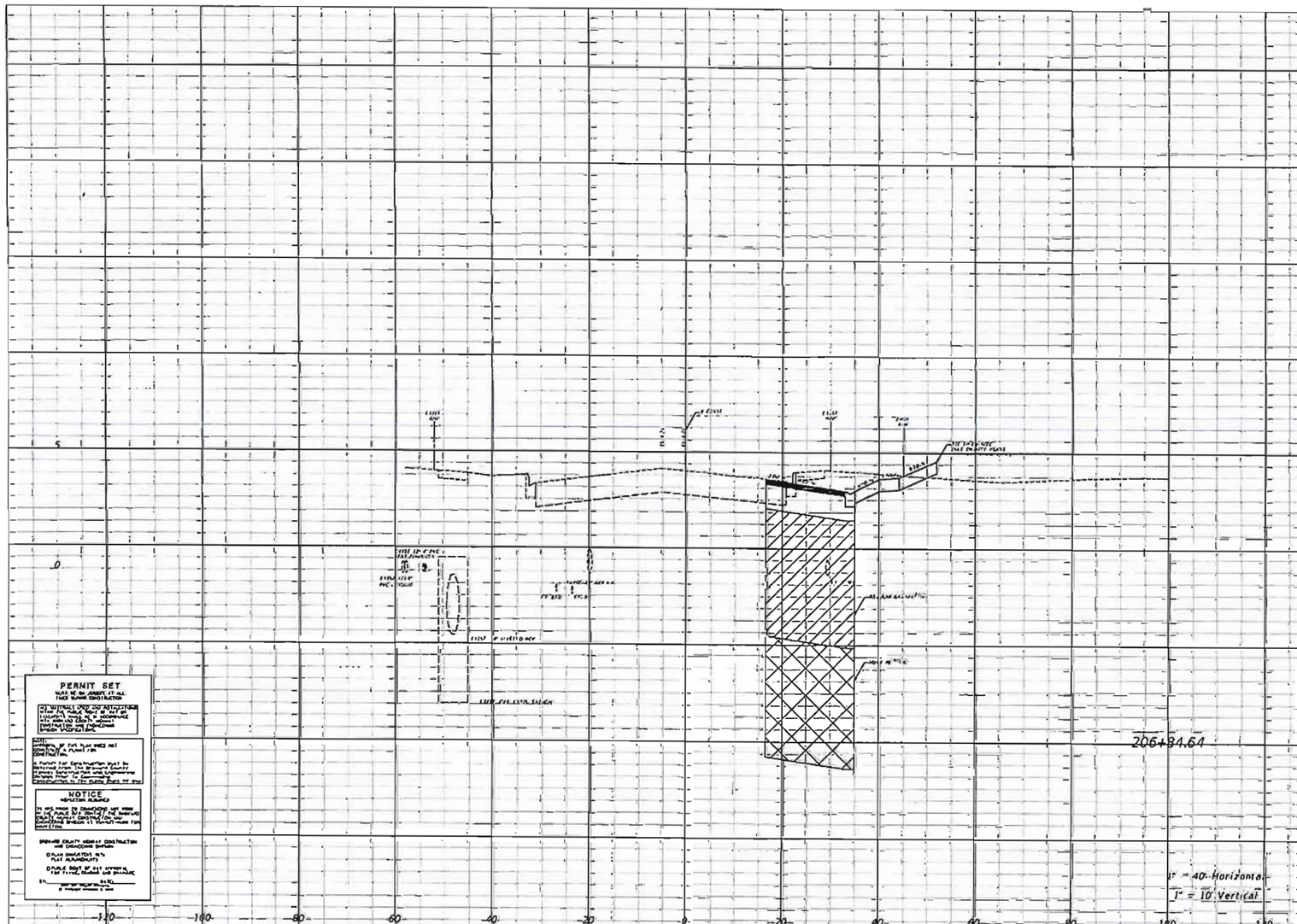

Regular Exc.		Embankment	
A	V	A	V
138.3		0.2	
	305.6		0.3

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. ELSIER, P.E.
P.E. LICENSE NUMBER 64316
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 14

Matt LaMotte 8/17/2020 3:46:12 PM c:\pwworking\1\dms\prod\mattlaroche\am568917\RD3SRD01.DGN

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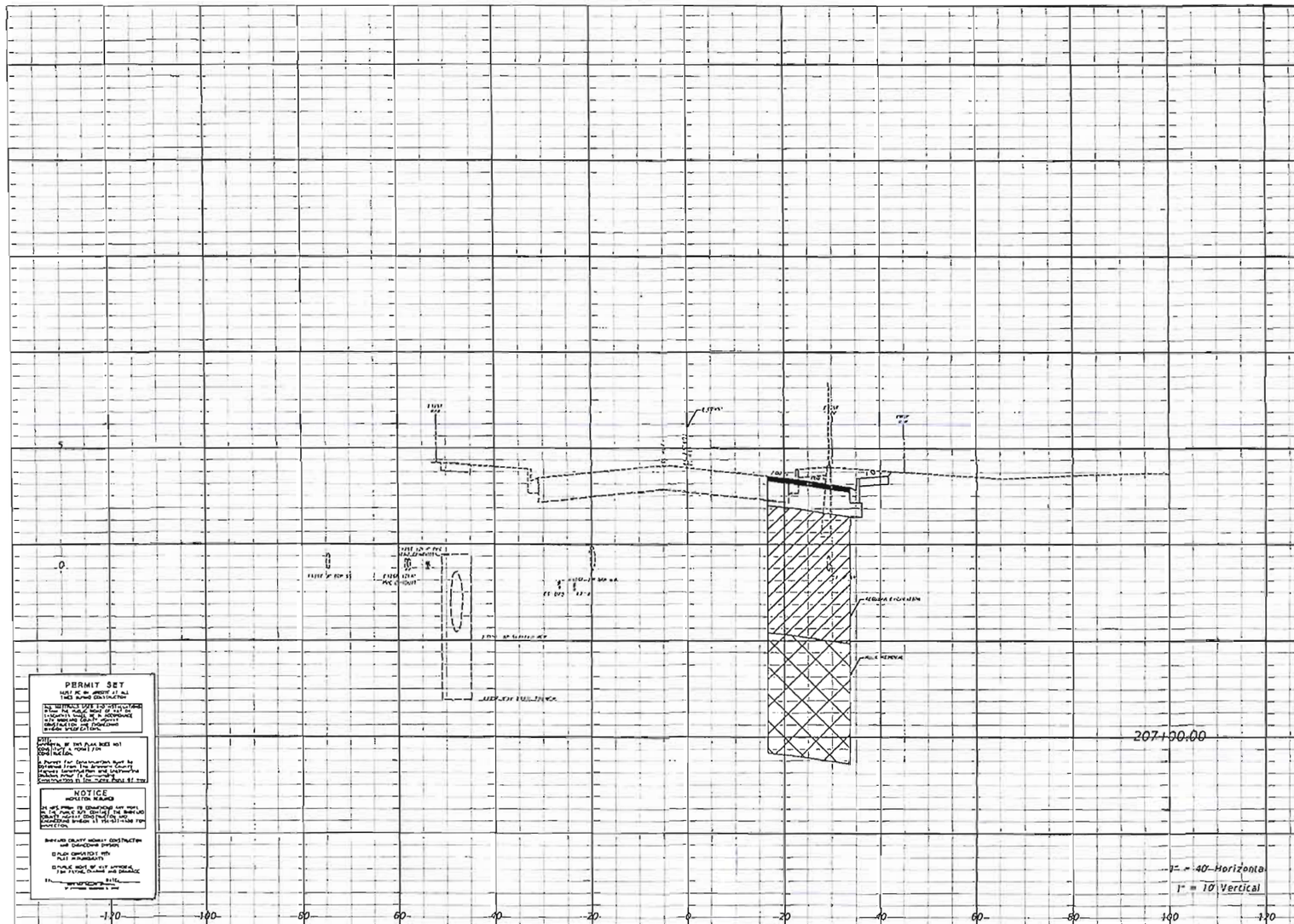

Regular Exc.		Embankment	
A	V	A	V
125.5		0.0	
	75.0		0.1

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. ELTER, P.E.
P.E. LICENSE NUMBER 64016
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 15

Matt Lorette 8/31/2020 3:06:12 PM C:\pwworking\fto\pwprod\matt.lorette\dms58917\RD3SRD01.DGN

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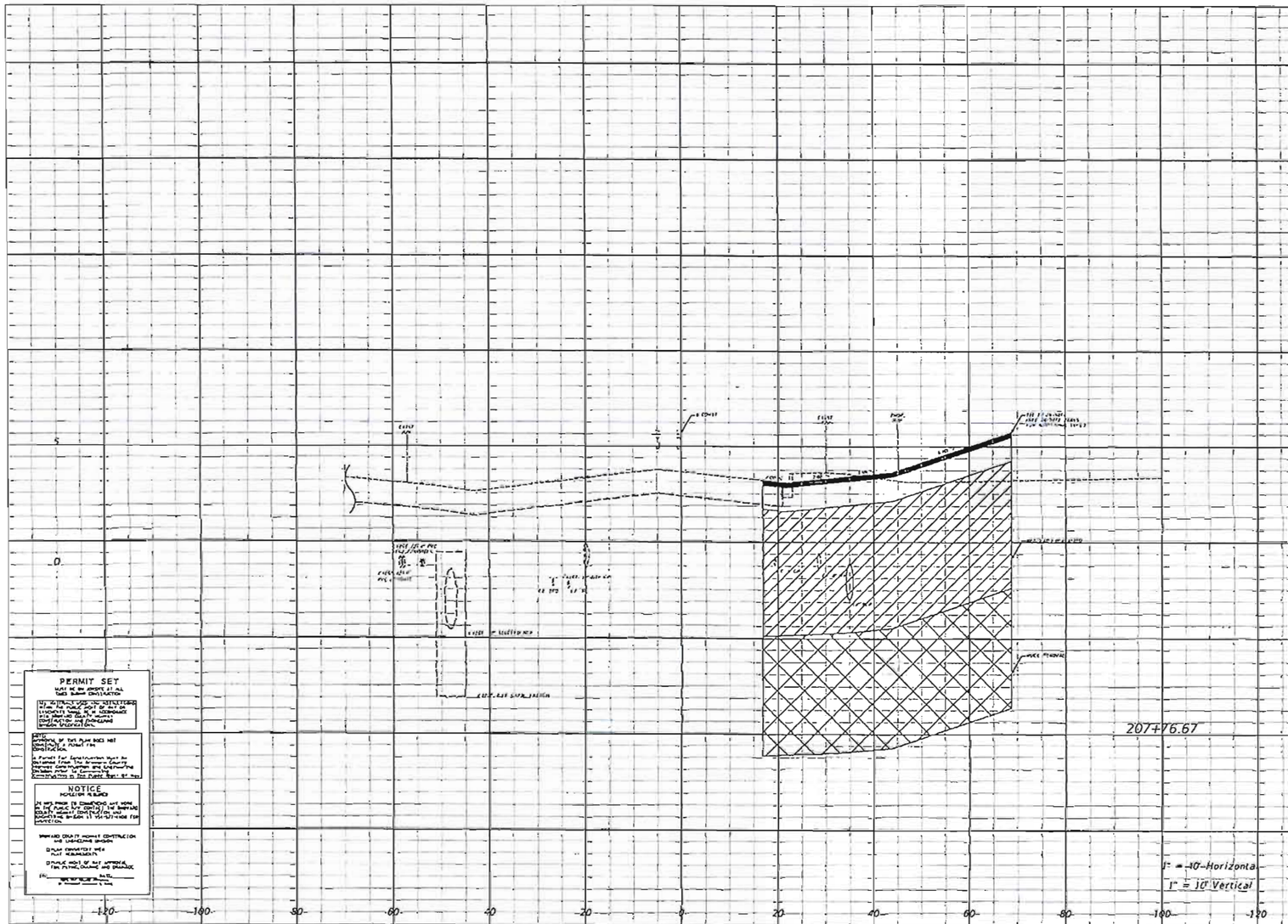

Regular Exc.		Embankment	
A	V	A	V
307.8		0.0	
	615.2		0.0

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 16

MatLeRette 8/4/2020 3:46:12 PM t:\pwworking\33\n\pwprod\ecat\erieclem\d69917\RDX5RD01.DGN

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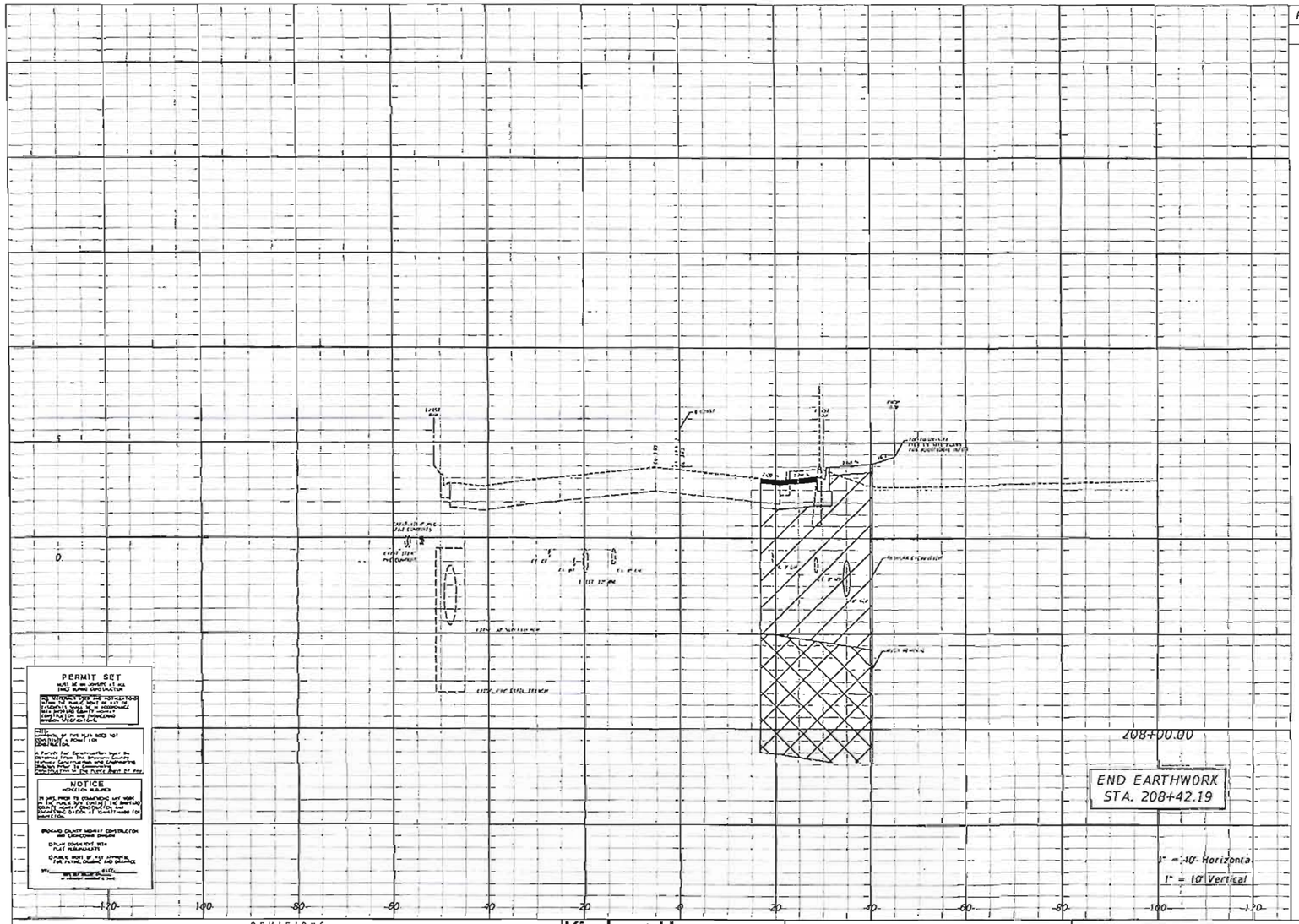

Regular Exc.		Embankment	
A	V	A	V
103.7		1.3	
	177.8		0.6

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KETCH, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH
MARINA CORPORATION

SOUTH BRYAN ROAD
CROSS SECTIONS

SHEET NO.
17

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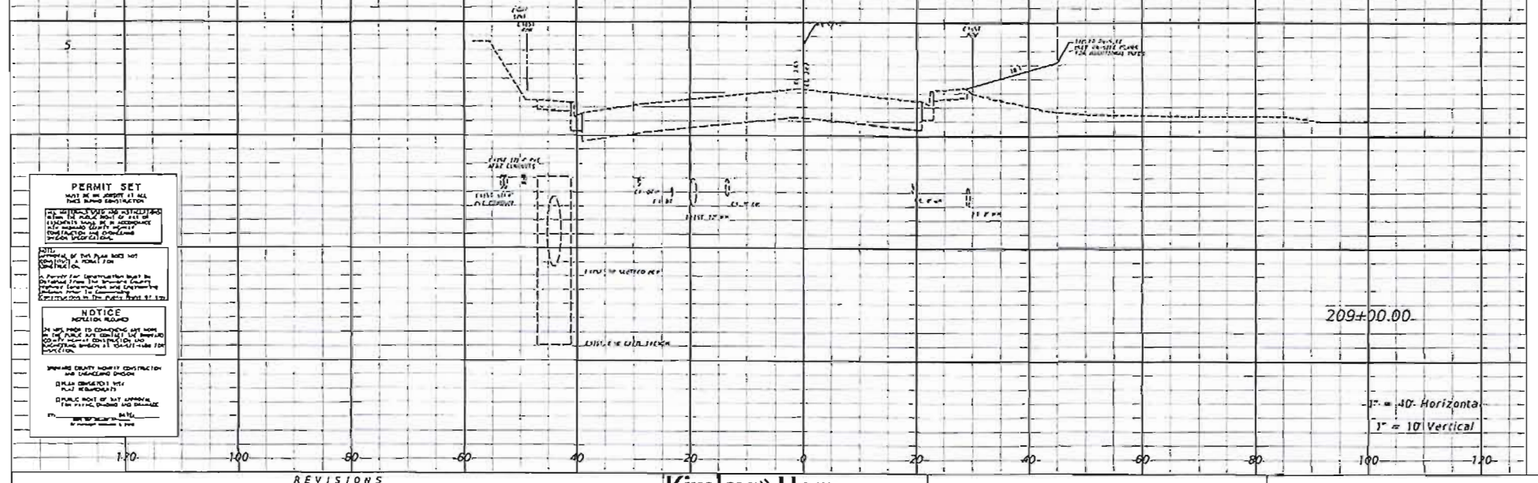
BCHCED REF. NO: XXXXXXXX

Regular Exc.		Embankment	
A	V	A	V



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. KLEICK, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

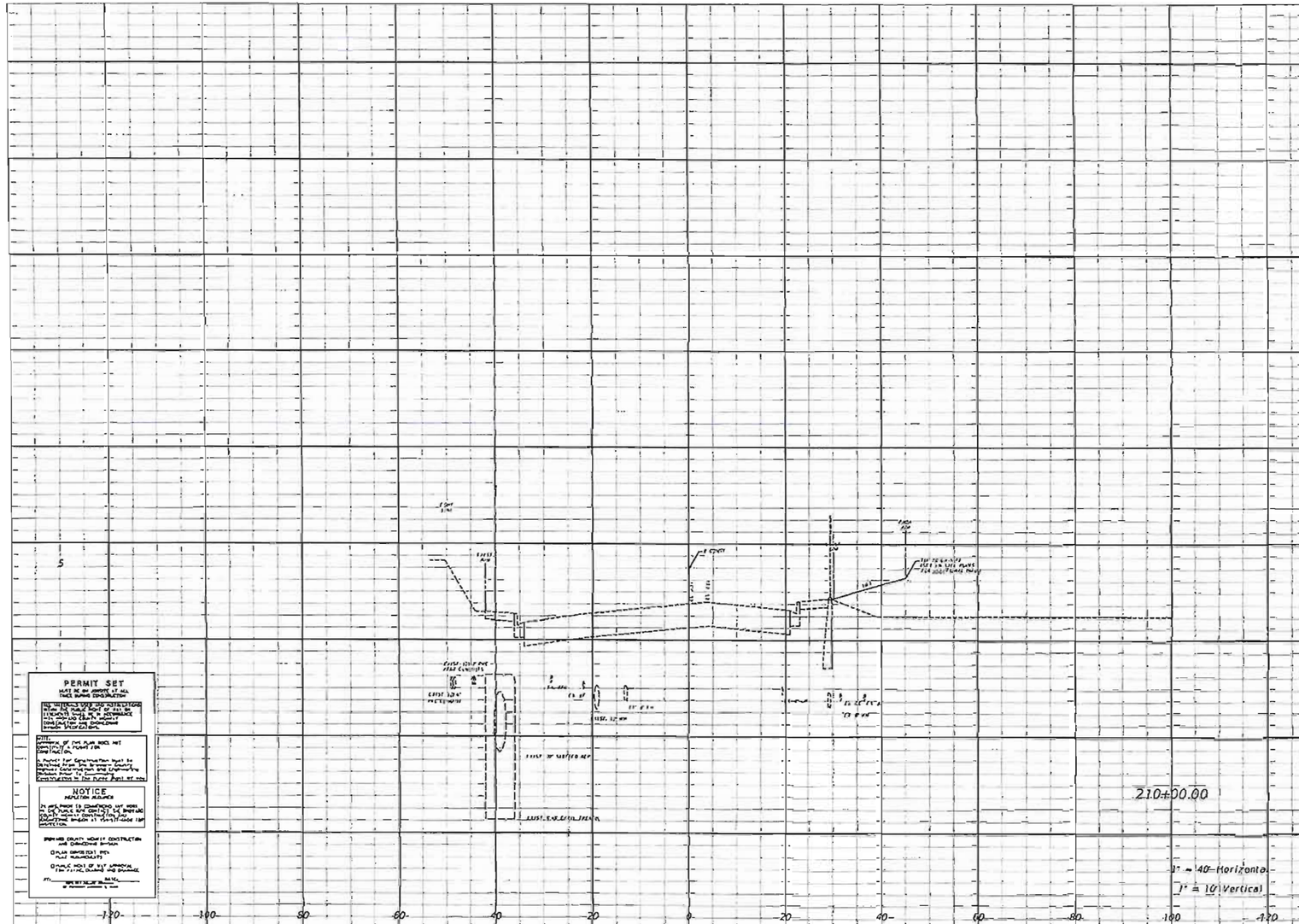
SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 18

Matt LeRette 8/4/2020 2:46:13 PM C:\pwworking\tha\mwpreda\matt.lerette\dms689117\RD1SH001.DGN

UCHCED REF. NO: XXXXXXXX

Regular Exc.		Embankment	
A	V	A	V



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. ELFICH, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000606

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 19

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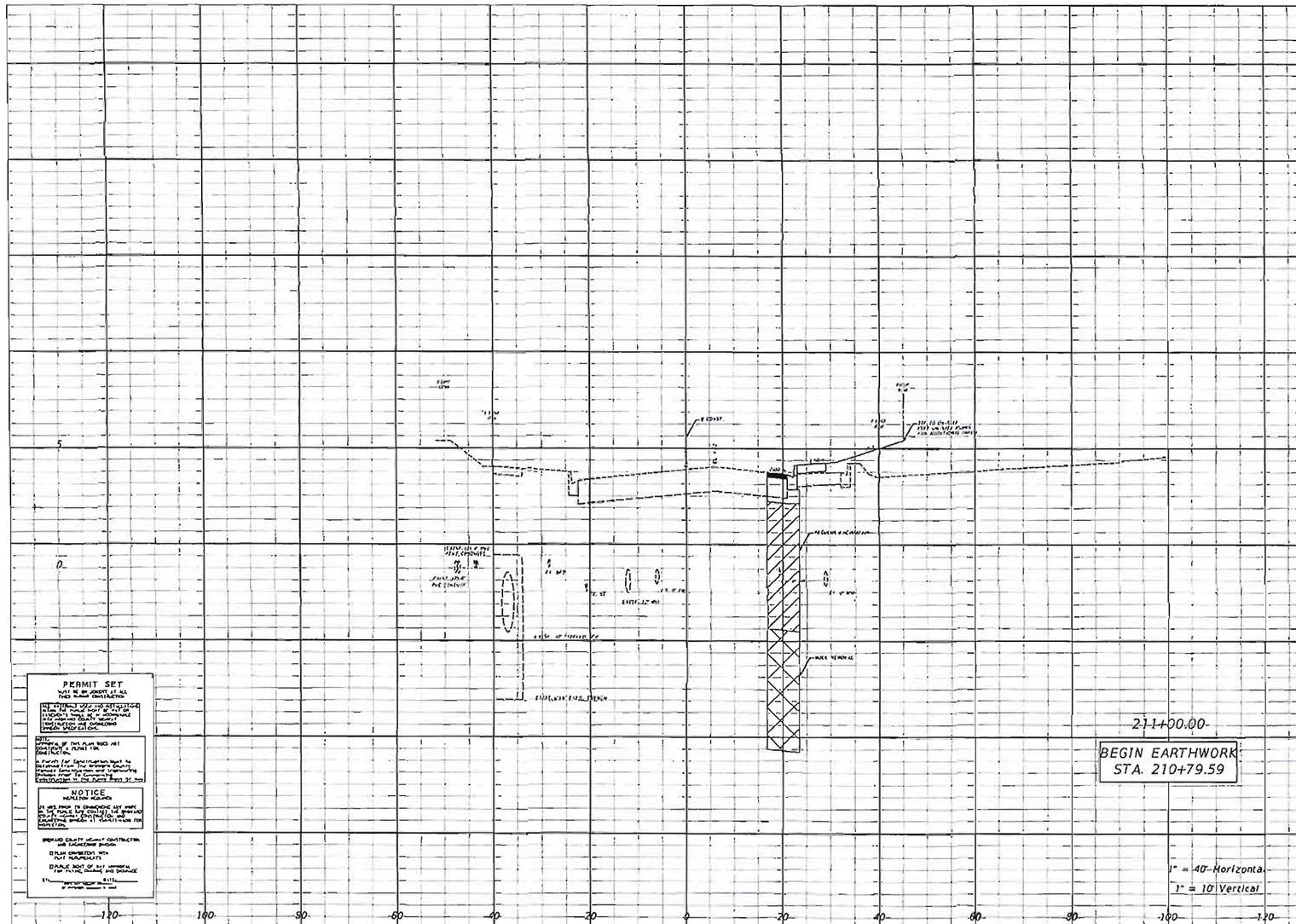

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Regular Exc.		Embankment	
A	V	A	V
42.8		34.5	
	813.9		198.9

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. BELCHER, P.E.
P.E. LICENSE NUMBER 64076
435 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION 00000006

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 20

Matt.Belle 8/31/2020 3:46:13 PM

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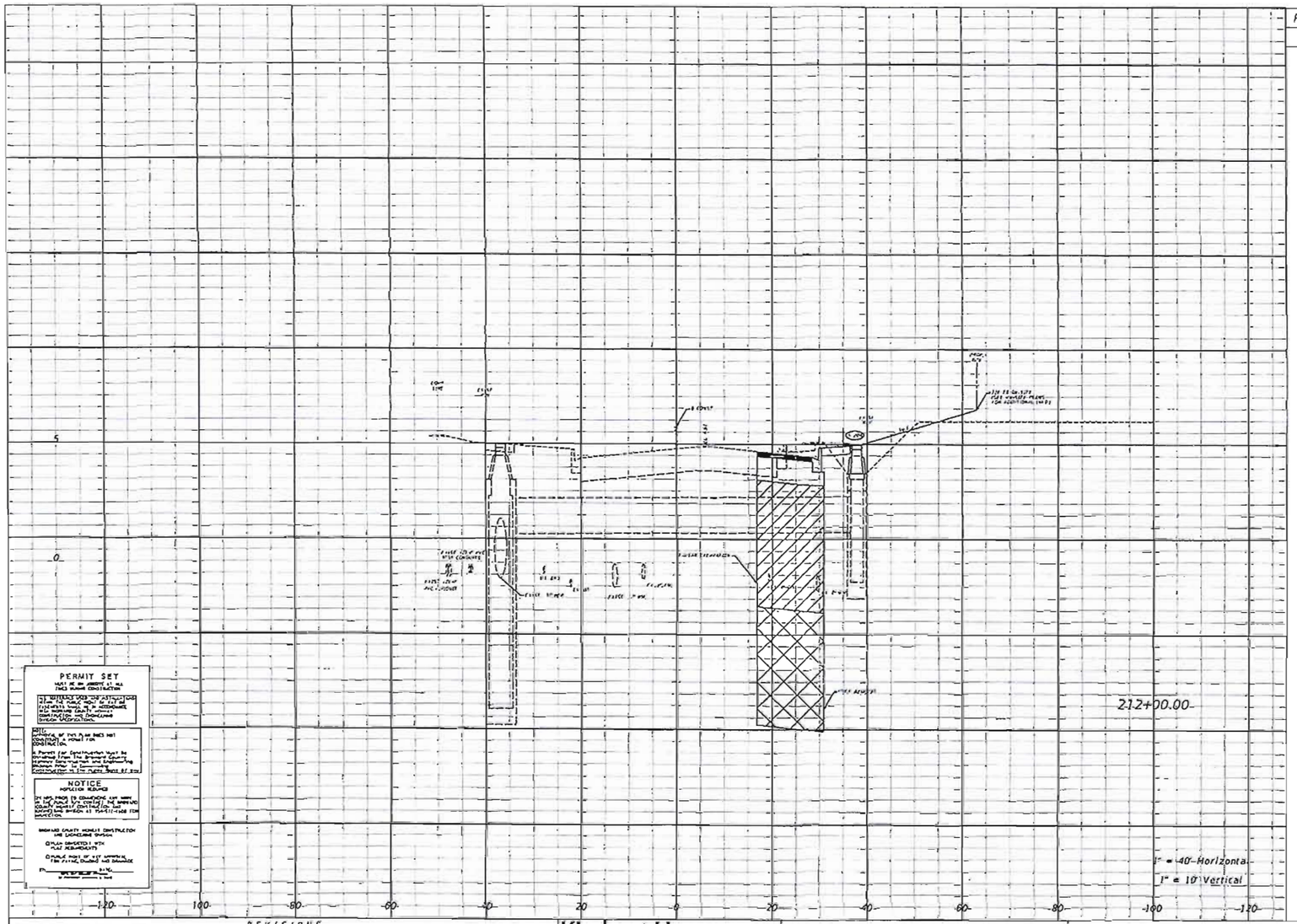

Regular Exc.		Embankment	
A	V	A	V
96.7		13.6	
	258.3		89.1

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. CLEICK, P.E.
P.E. LICENSE NUMBER 64016
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 21

Matt.Lecklette 8/4/2020 3:46:33 PM C:\pwworking\tlm\prprod\matt.lecklette\dms68917\RDS5RD01.DGN

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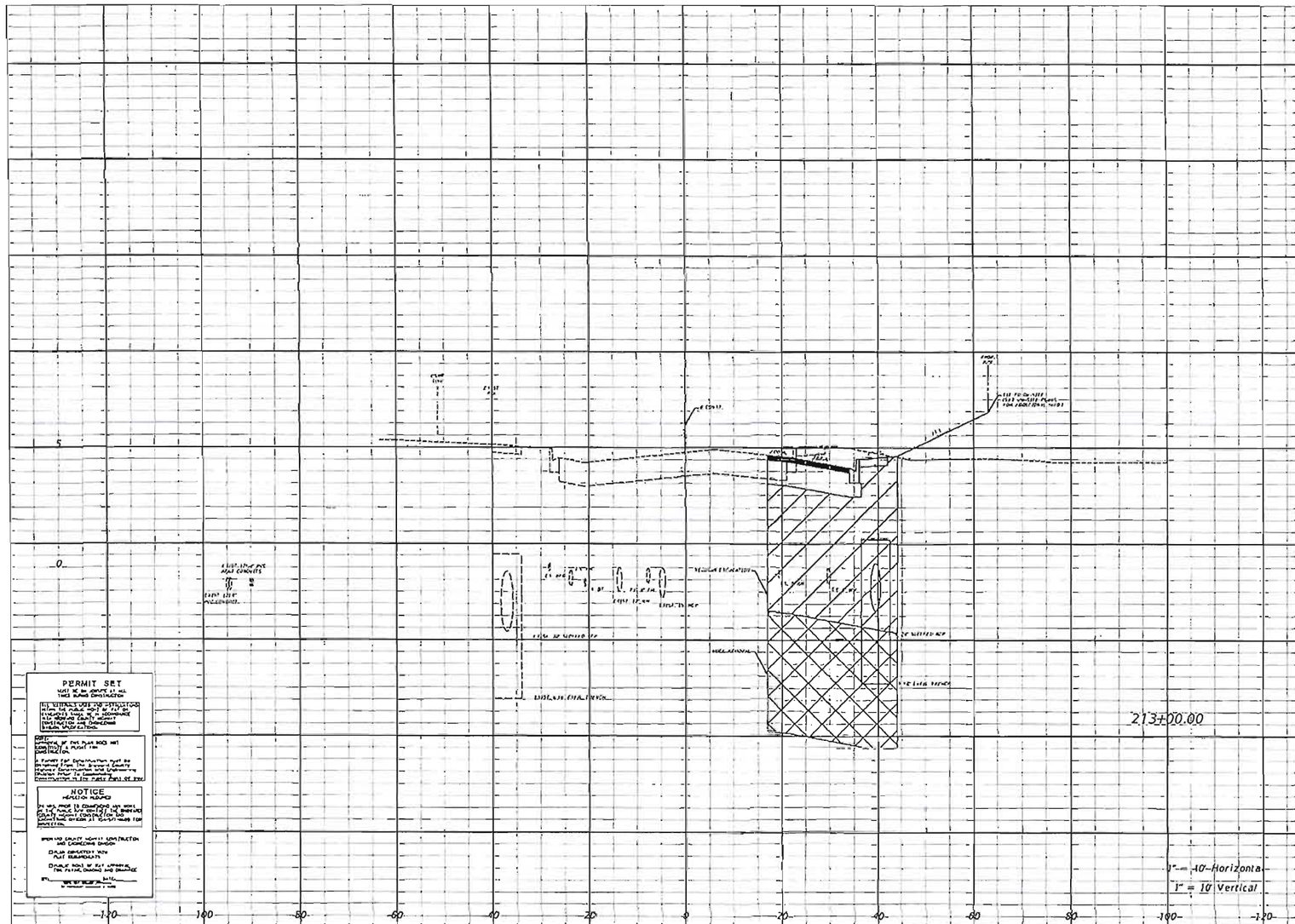

Regular Exc.		Embankment	
A	V	A	V
139.2		19.4	
	436.9		61.1

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64016
410 24TH STREET, SUITE 700
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 000000696

DANIA BEACH MARINA

DANIA BEACH
MARINA CORPORATION

SOUTH BRYAN ROAD
CROSS SECTIONS

SHEET NO.
22

MARIZeRello 8/4/2020 3:46:13 PM c:\pwworking\ala\pwpdoc\mali1ere\dms68917\RDXSRD01.DGN

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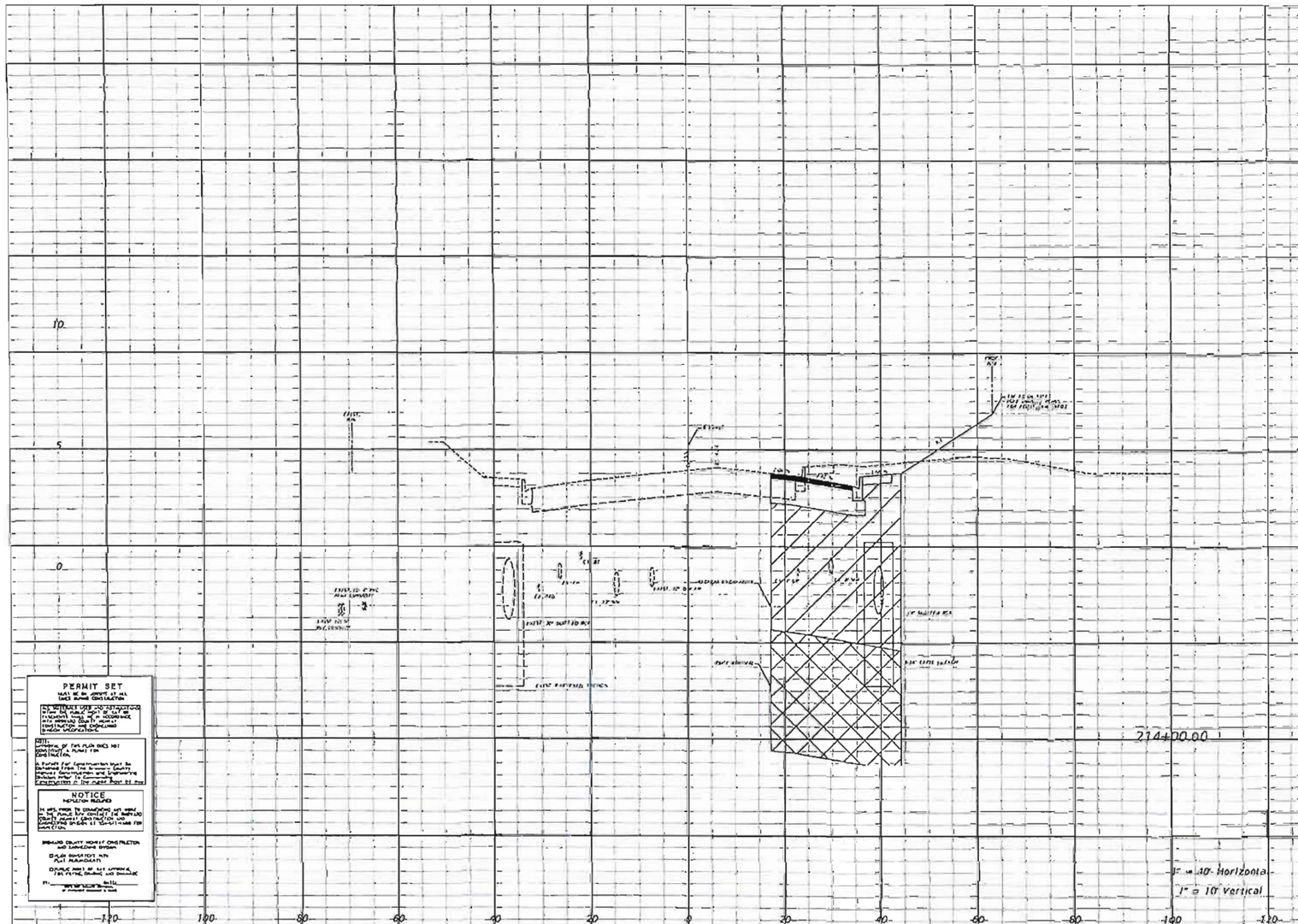

Regular Exc.		Embankment	
A	V	A	V
141.3		12.6	
	519.4		59.3

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. CIESIEL, P.E.
P.E. LICENSE NUMBER 64016
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 23

M.Ricciardelle 8/31/2020 3:46:13 PM

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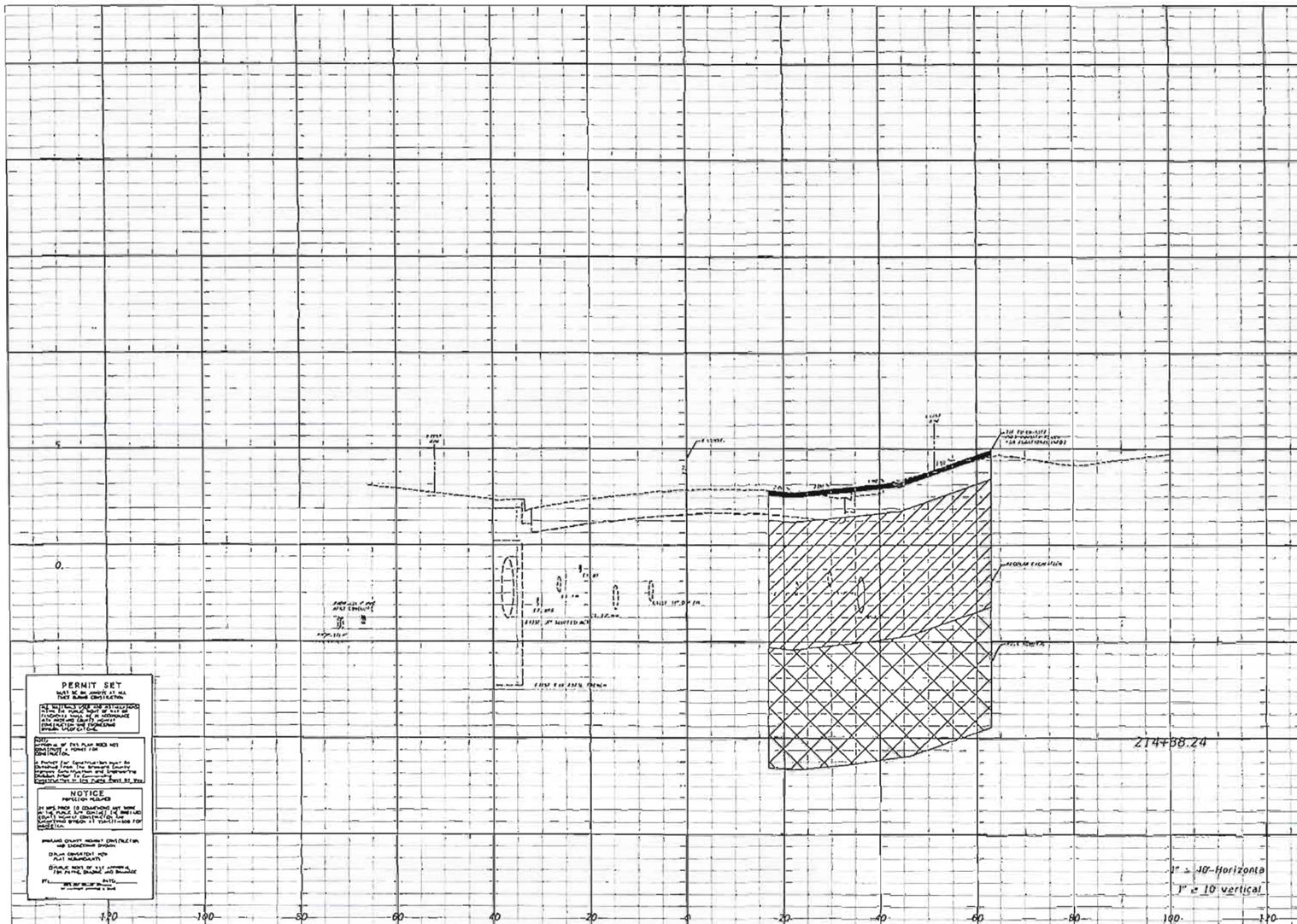

Regular Exc.		Embankment	
A	V	A	V
293.7		0.3	
	710.8		21.1

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64016
655 EPPES STREET, SUITE 300
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION, 00000096

DANIA BEACH MARINA

DANIA BEACH
MARINA CORPORATION

SOUTH BRYAN ROAD
CROSS SECTIONS

SHEET NO.
24

HALLEPHELLE 8/4/2020 2:46:13 PM C:\pwworking\10\D0699088\Halleplelle\dms68917\HDASR001.DGN

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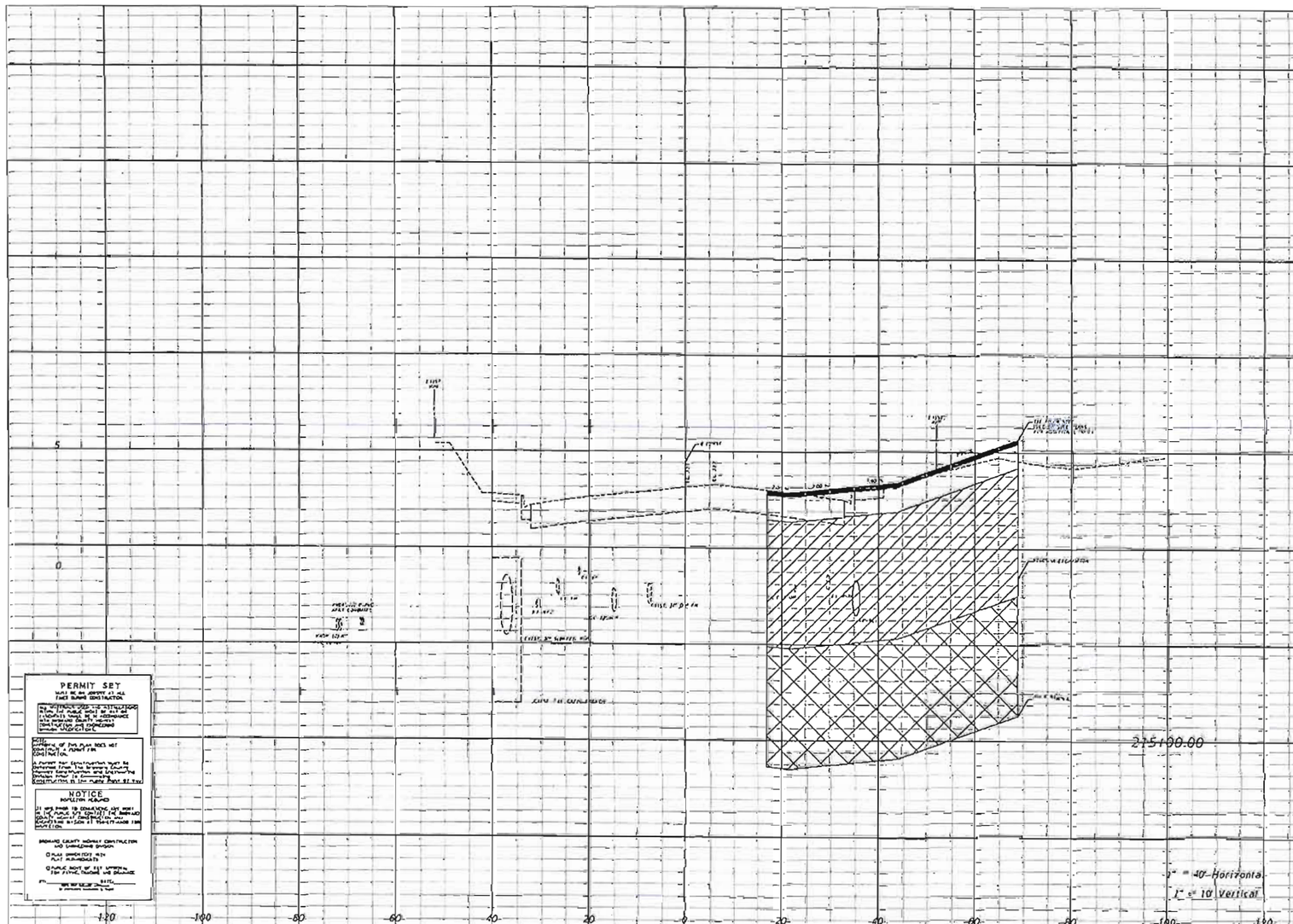
Regular Exc.		Embankment	
A	V	A	V
324.8		0.0	
	134.7		0.1



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. BLEICK, P.E.
P.E. LICENSE NUMBER 64376
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000096

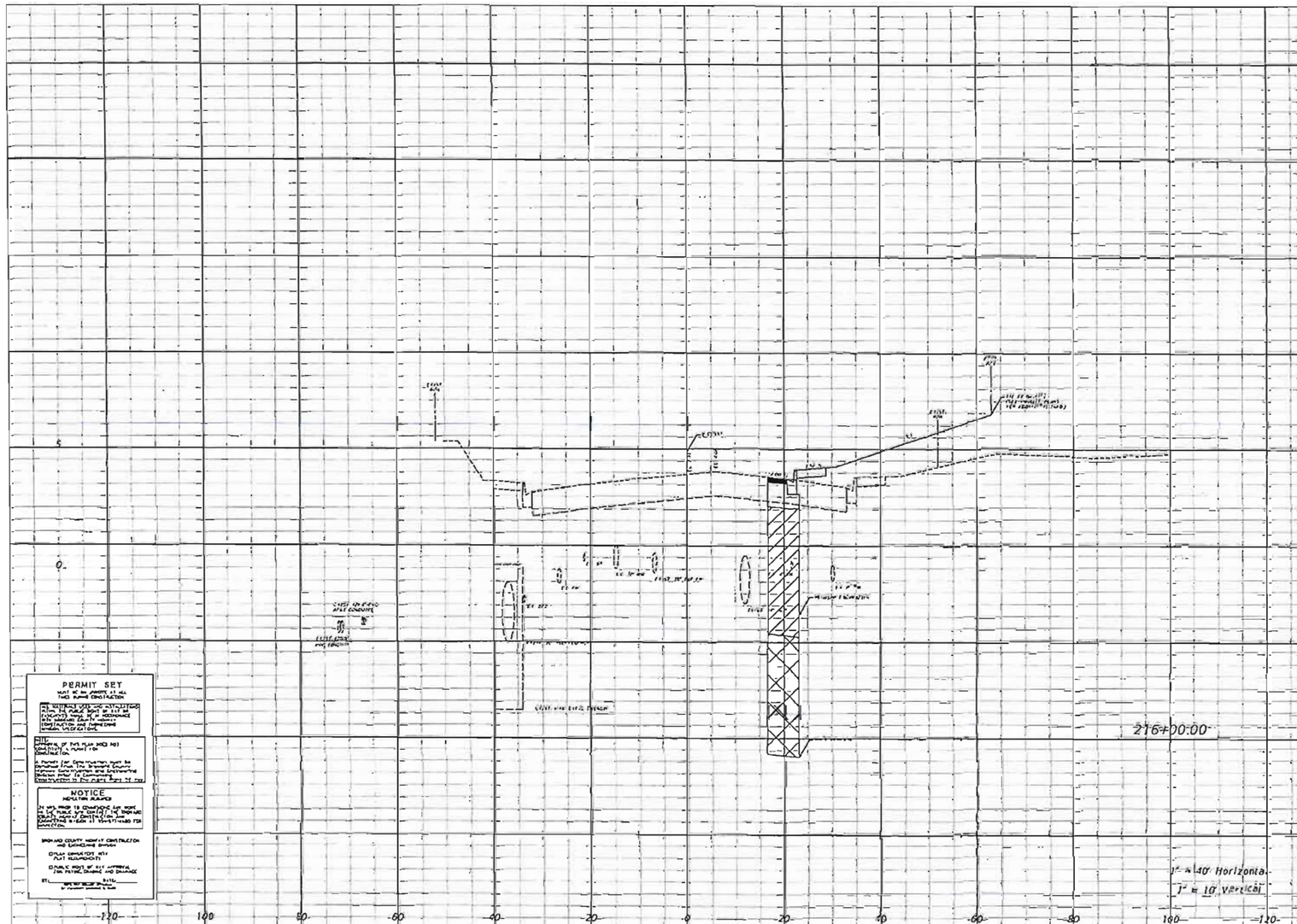
DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 25

Matt.LeRoite 8/11/2020 3:46:14 PM



BCHCED REF. NO: XXXXXXXXX

Regular Exc.		Embankment	
A	V	A	V
42.0		44.1	
	679.3		81.7

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. ELCIER, P.E.
P.E. LICENSE NUMBER 62016
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 000006 96

DANIA BEACH MARINA

DANIA BEACH
MARINA CORPORATION

SOUTH BRYAN ROAD
CROSS SECTIONS

SHEET NO.
26

Hall,LeRoite 8/4/2020 3:40:14 PM c:\pwworking\ch\dmsprod\dms\11\erelte\dms63017\RDXSHD01.DGN

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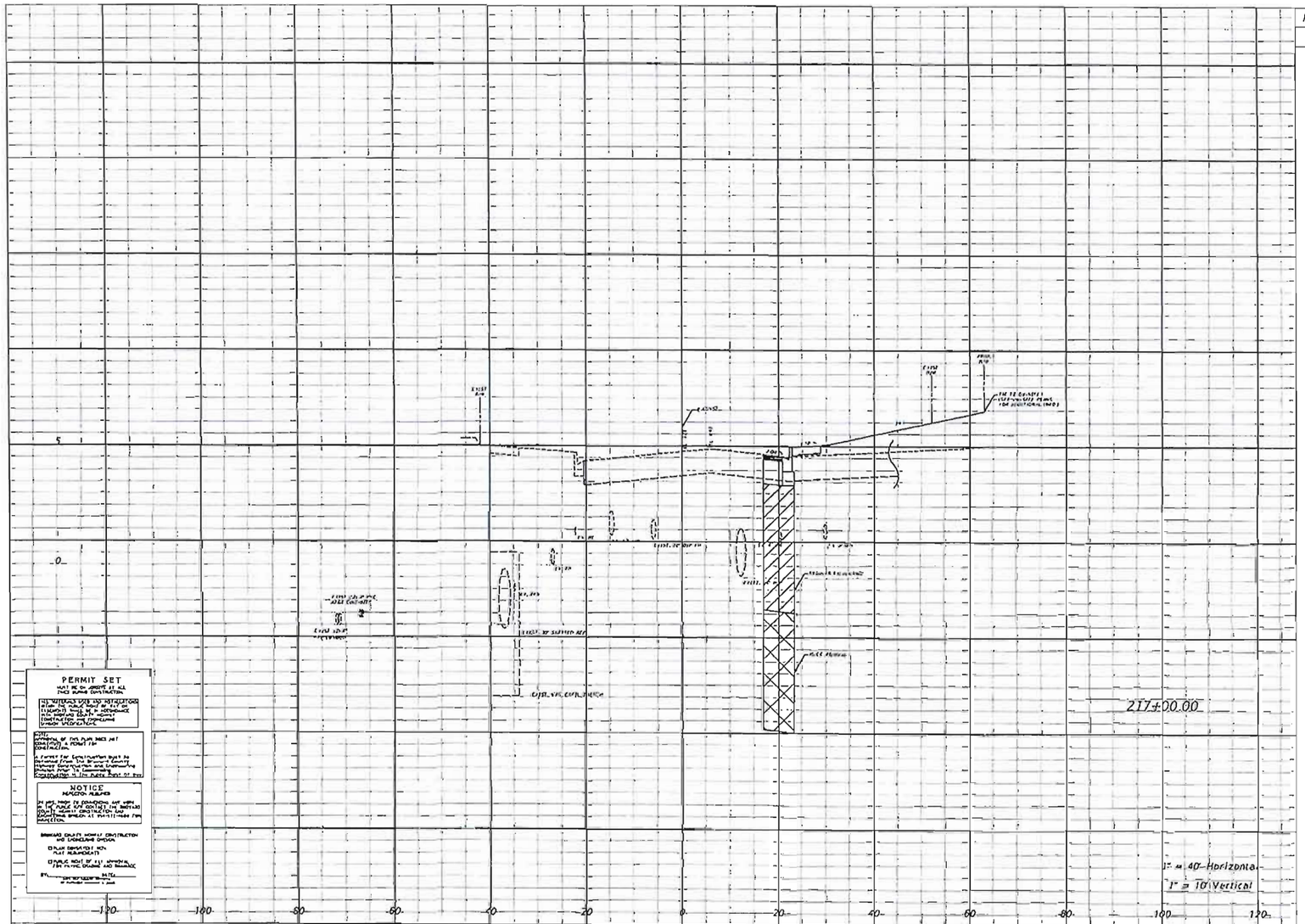


Regular Exc.		Embankment	
A	V	A	V
42.0		32.2	
	155.6		141.3

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH
MARINA CORPORATION

SOUTH BRYAN ROAD
CROSS SECTIONS

SHEET NO.
27

Matt.Lecrette 8/27/2020 2:46:14 PM C:\pwworking\33\dms=prod\mallfolder\d4105917\XDS SRD01.DGN

BENCHED REF. XD XXXXXXXX

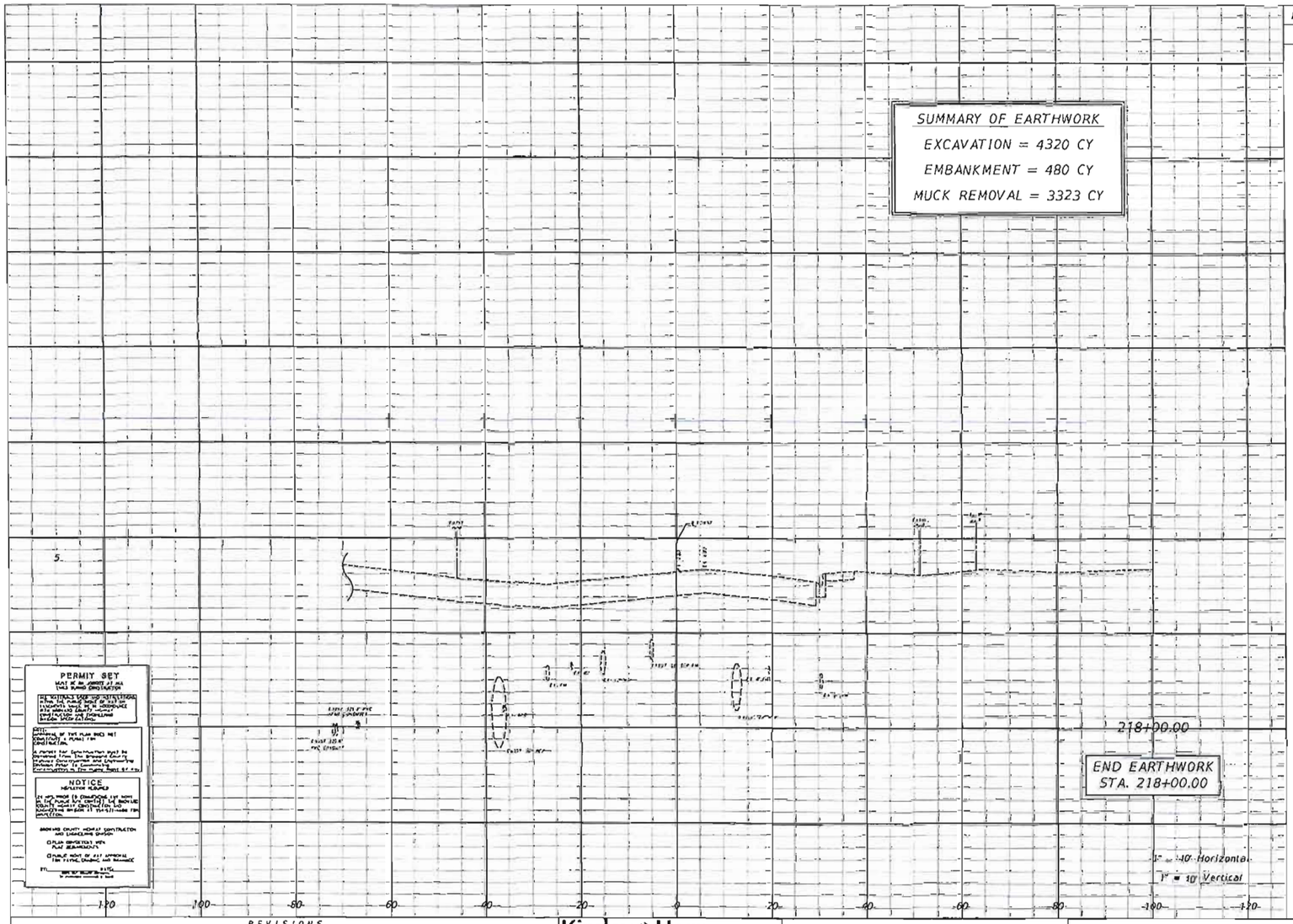
Regular Exc.		Embankment	
A	V	A	V

SUMMARY OF EARTHWORK

EXCAVATION = 4320 CY

EMBANKMENT = 480 CY

MUCK REMOVAL = 3323 CY



PERMIT SET

NOTICE

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

CARL J. KLEIER, P.E.
P.E. LICENSE NUMBER 61076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH
MARINA CORPORATION

SOUTH BRYAN ROAD
CROSS SECTIONS

SHEET NO.
28

Matt LeRette 8/31/2020 3:46:14 PM C:\pwworking\ceus\pwproadwait\ceus\dms68911\RDS SH001.DGN

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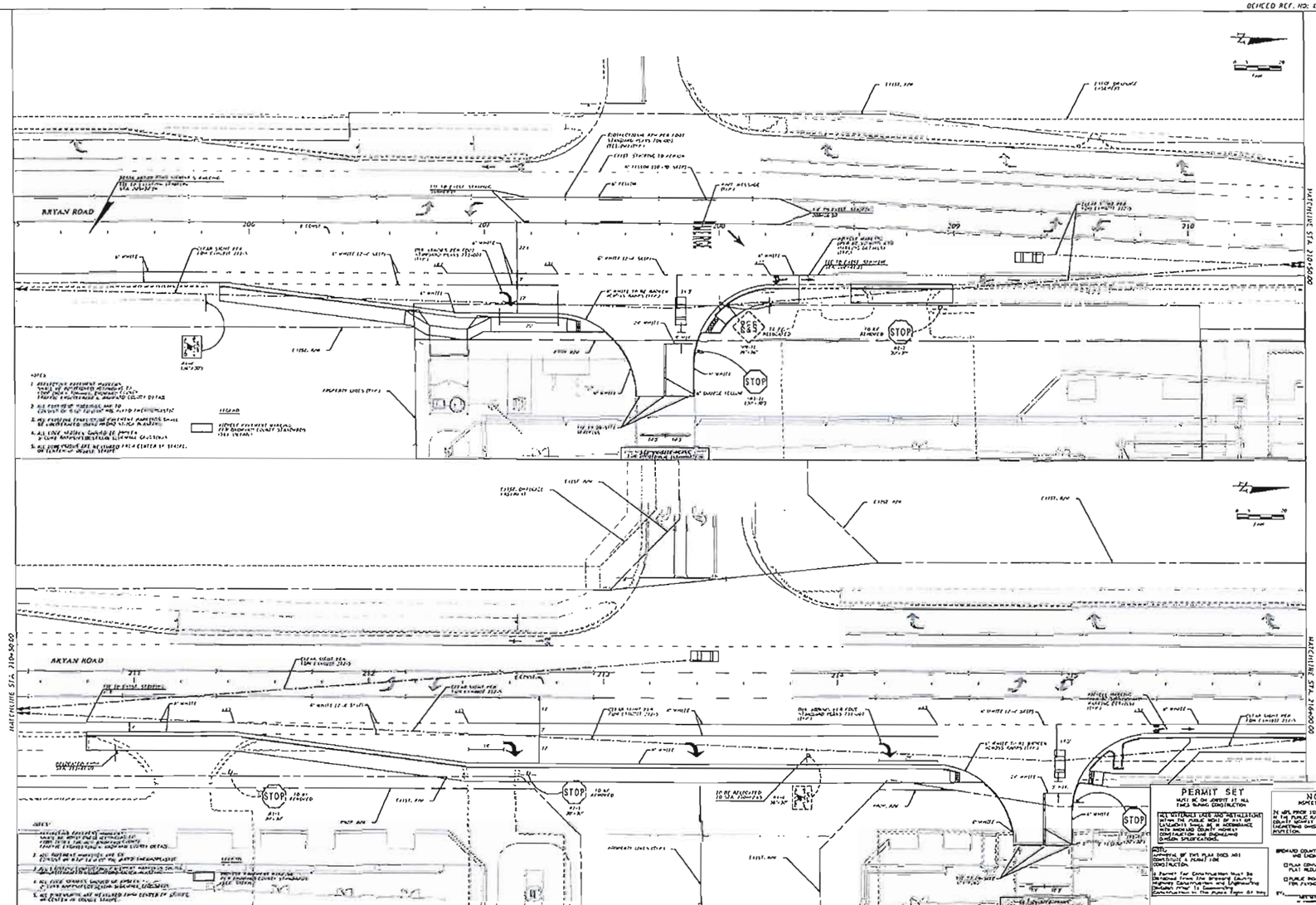

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64036
425 24th STREET, SUITE 100
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD SIGNING AND MARKING

SHEET NO. 29

Matt LeRette 01/7/2020 3:46:19 PM C:\Pw_working\kha\pwlocal\matlerette\d0056970\PLAN5PDF.dgn

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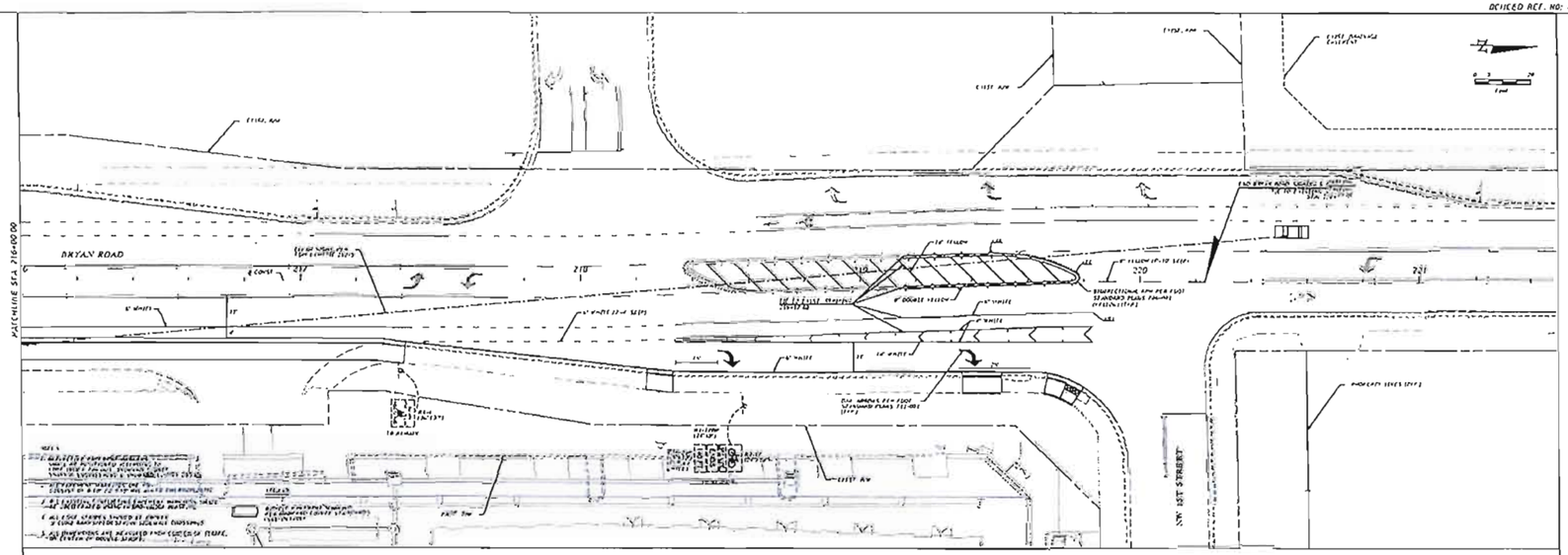

PERMIT SET

MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND DETAILS OF WORK IN PUBLIC RIGHT OF WAY IN BROWARD COUNTY MUST BE INTERCHANGE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION

A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION BEFORE CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONFORMS WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING DRAINAGE AND SIGNAGE

BY: _____ DATE: _____

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. ELCICK, P.E.
P.E. LICENSE NUMBER 64016
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION, 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD SIGNING AND MARKING

SHEET NO. 30

MATLefleite 8/4/2010 3:06:23 PM C:\pwworking\kh\pwprod\mx01\ericelck\d0056897\6\PLANSPOT.dgn

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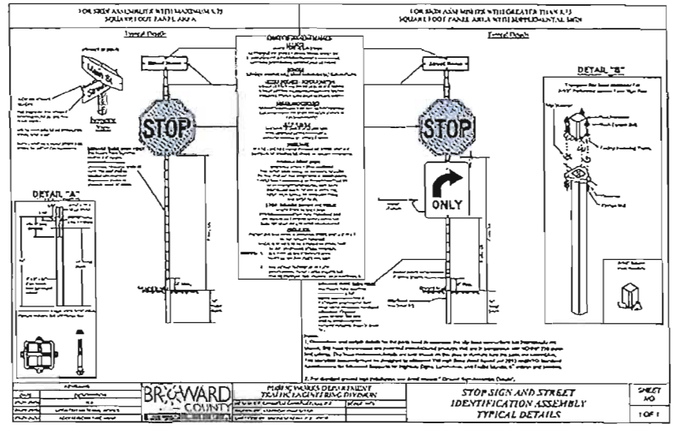
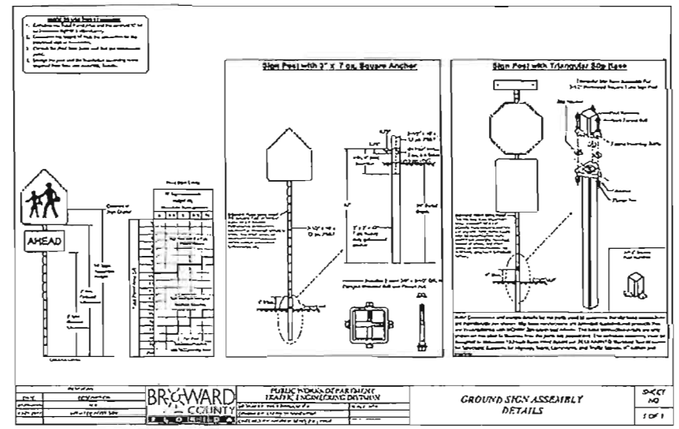
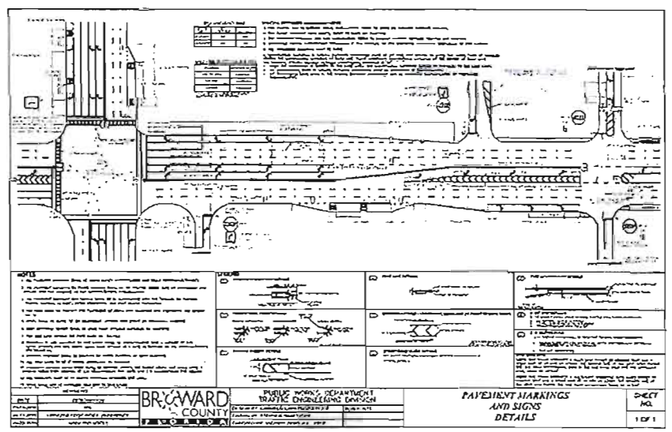
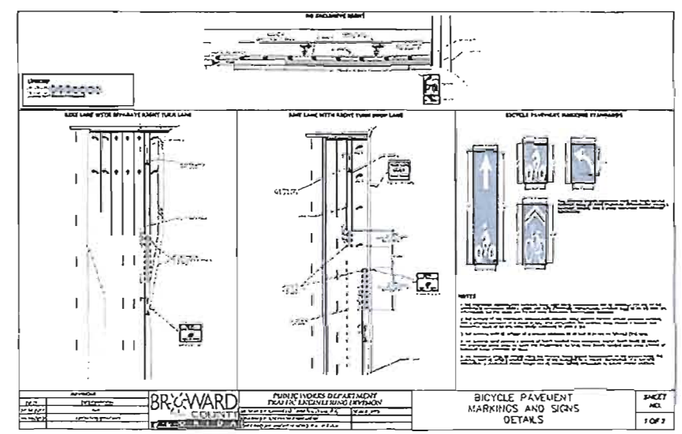








PERMIT SET

NOTICE

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SIGNING AND MARKING DETAILS

SHEET NO.

31

Matt.LeRoitz 8/11/2020 3:46:28 PM c:\pwworking\11\ss\swarood\mat\jerrett\dms68917\SPDTSP07.dgn

1 Site Description:

A. Construction Access: Construction access will be provided by Dixie Highway. No vehicular ingress/egress will be allowed on the Dixie Highway during construction.

B. Sequence of Major Soil Disturbing Activities, Soil Stabilizing Activities and Site Work during each of the anticipated construction phases of this project. The following soil disturbing activities are those in the sequence in which they are expected to occur:

1. Install Stabilized Construction Entrance(s)
2. Clearing and Grubbing
3. Implement Appropriate Erosion Control Measures
4. Excavation of Ponds
5. Embankment Construction
6. Install Utilities and Temporary Bypasses
7. Roadway Grading and Construction
8. Final Grading and Landscaping

C. Total Project Area: 1.183 AC
Total Acres to Disturb: 0.66 AC

D. Runoff Data

The following is a list of the drainage basin, the acres of the basin and the runoff coefficient before, during and after completion of the project.

Basin	Area (AC)	Before Construction	During Construction	After Construction
FPMP4 ASBD	1.183	0.521	0.554	0.574

E. Site Elev. Min 13.5 [illegible]

F. Receiving Waters:

Name	Latitude (DMS)	Longitude (DMS)
[illegible]	26° 04' 15" N	76° 03' 15" W

G. Receiving Water C-38 Canal

2 Controls

A) Erosion and Sediment Controls: The soil erosion and sediment controls shall be maintained by the contractor in general in the areas of the proposed project shown on the plans. Additional areas may need control which depends on the extent of damage as result from the activity.

All items represented in the following discussion are located on the Plans Department of Transportation Standard Specification for Road and Bridge Construction (SFRB) or are specified by the Engineer in a manner consistent with these generally accepted construction practices. The contractor will generally use control measures in the order presented, which are appropriate for the phase of the project. A minimum number of measures will be used initially and additional measures added as needed. The contractor is responsible for the proper installation and maintenance of measures. The contractor shall consider the cost of these measures as part of the bid price.

(1) Stabilization Practices. During construction the contractor will provide temporary seeding for areas which have been disturbed and are inactive where to stabilize soils. The entire disturbed and unpaved portion of the project will be subject to mulching and temporary seeding (emergent). Bare soil areas will be kept to a minimum.

Stabilization Practices will include:

Temporary Seeding
Sodding Water Areas
Mulching the area of disturbed soil at any given time
Preservation of natural vegetation
Soil stabilizing mechanisms
Dust control

(2) Structural Practices will include:

Silt Fence (SF)
Hay bale (HB)
Rock Bags (RB)
Inlet protection (Inlet)
Turbidity Barrier (TB)

(3) Phasing of Controls

Phase I - Installation of Erosion and Sediment Controls

a. Environmental control features as provided in Plan Quantities are to be installed throughout the clearing and grubbing area of environmentally sensitive areas as shown on the plans. Silt fence, hay bales, turbidity and construction entrance are to be installed prior to any other work.

b. The contractor will be responsible for a daily inspection of the environmental control features. Inspection schedule for inspection and maintenance of the erosion control features will be included in weekly reports to ensure the proper operation of the control features.

Phase II - Clearing and Grubbing

Clearing and grubbing shall be done as needed or as approved by the engineer. Silt fence, hay bales, turbidity barrier, and other controls as specified shall be in place prior to the commencement of clearing and grubbing activities.

Phase III - Excavation of Muck, Soils and Embankment and Surface Stabilization

Immediately after clearing and grubbing, the muck, unsuitable soils, and other materials as specified, shall be in place prior to the commencement of embankment and surface stabilization.

Phase IV - Drainage System or Permanent Control Features

a. Environmental control features as provided in Plan Quantities are to be installed in the areas of excavation or fill for drainage structures or structures construction prior to beginning excavation or fill. Silt fences or hay bales are to be installed from outside of excavation or fill area to the extent indicated in the approved Plans or Specifications/Contract. Silt fences and hay bales are to be placed from adjacent areas to the SWMP. These devices shall include hay bales, silt fence, turbidity barrier, the inlet protection and others as appropriate.

b. The Contractor will be responsible for monitoring and maintaining the operation of water quality standards as that relate to turbidity, water management, filtering and turbidity barriers and provide the chief of the project permits inspector the number of the project. If the water quality standards cannot be met, additional measures shall be implemented and maintained as directed by the Engineer.

Phase V - Permanent Environmental Features

Temporary environmental controls will be removed after the permanent ones have grown, and permanent erosion control and landscaping features are in place and functional. Temporary erosion control features will be removed after permanent or temporary features are in place and are functional or the permanent erosion control measures or temporary features are functional for the permanent storm water management system.

D) Stormwater Management: Stormwater management will be via the permitted stormwater management system.

C) Other Controls

1) Waste Disposal: The contractor and ground litter, debris and refuse within the project boundaries during construction activities. All litter, debris, garbage, or other similar materials shall be disposed of in the manner according to EPA's standard.

2) Off-Site Vehicle Tracking: will be controlled by the following methods:

- Road Sweep Tracking off the Site Limits
- Tracking Pad Installed at the Site Entrance
- Tracking Pad or Mudd to be Removed Daily
- Dust Mitigation Practices (Water Truck, Sprinkler, Etc.)

3) Spillage: any fuel, oil, or other materials that may be spilled on the site shall be removed in accordance with FDEP's and Broward County's standards for Solid Waste Disposal.

4) Employees and Subcontractors: Contractors will be sent on the project in accordance with FDOT Standard Specifications for Road and Bridge Construction (2010 Edition Ref. To make certain that they are aware of the erosion control measures and the importance of maintaining them. Training of any contractor will be required when this plan must be modified or when the project ends.

D) Permits

The following permits have been issued for the project:

SFWMD (Environmental Resource Permit)

The contractor is responsible for obtaining the following permits:

FDEP - (NPDES Permit)
SFWMD - (Temporary Dewatering Permit (if needed))

Additional permits may be required by the City of Deerfield Beach.

3 Maintenance

The Contractor shall be responsible for proper inspection and maintenance of all erosion control devices throughout the construction phase of the project. Maintenance shall be conducted in accordance with FDOT Standard Specifications for Road and Bridge Construction (2010 Edition) Sec. 981 and 104-7. Roadway and Traffic Bridge Standard (2010 Edition) and Indexes 100 - 105 or as directed by the Engineer.

The Contractor will be responsible for maintenance and repair of erosion and sediment control devices and removal of trash and sediment during construction and restoration of the completed project to FDOT standards.

Maintenance and repair required for the control and abatement of erosion and water pollution shall be included in the bid of the item for (Erosion Control).

The following measures will be used to maintain erosion and sediment control:

Sediment

The Contractor shall install and maintain temporary measures as the project and local authority conditions or ordinance requirements require to prevent sediment and other pollutants from leaving the site. All control measures must be maintained in the Contractor.

All temporary silt fences must be in good working order. If a repair is necessary, it will be initiated within 24 hours of report.

Sediment Removal Control:

Surface sediment will be removed from silt fence and hay bales barriers not later than when it has reached approximately the height of the fence.

Temporary and permanent seeding, sodding and planting will be scheduled for bare areas, including all finished grades.

Sod holding pegs/staples should be used to prevent lifting of the sod during which may impede the uniformity of the solution.

Floating turbidity barrier will be installed within the canal to shield of backwater and prevent the turbidity attached sediments to the floor and release pollutants at the Contractor project boundary limits.

4 Inspection

All erosion and water pollution abatement and control measures will be inspected daily by the Contractor.

Inspections are to be performed by qualified personnel who have completed the Florida Department of Transportation and Construction Training and Certification Program for inspecting and maintaining erosion and pollution control measures.

Inspection Area: Inspections of areas to be inspected should be at a minimum:

- Disturbed areas in vicinity of the Canal Bank
- Stockpiled areas in dry or wet
- Areas not meeting the Final Stabilization criteria
- Maintenance activities
- Sedimentation facilities
- Dewatering areas
- Vehicle Entrance/Exit
- Other Sediment Management Systems

The Contractor shall use the Construction Inspection Report Form SBM-0403 for daily inspections.

The Contractor's daily inspection results for the control and abatement of erosion and water pollution shall be included in the bid of the item (Erosion).

Training and Reporting

The Contractor is responsible for completing the inspection report form SBM-0403 every 7 days. Training of staff for conducting the inspection report form is required. The inspection report shall be submitted to the Engineer daily.

The Department shall review all reports submitted by the Contractor.

Proceedings of the Contractor's weekly reports of inspection, maintenance and repairs required for the control and abatement of erosion and water pollution shall be included in the bid of the item (Erosion).

5 Maintenance Dewatering and Maintenance Water

The Contractor will provide FDOT with an erosion control plan that incorporates the construction schedule and will include specifications and drawings. When the Contractor encounters a turbidity condition with the water in the work areas and permits by the Engineer. Dewatering of turbidity water will be done by a pump and discharge into a filtration system and replacement. The water will be tested every hourly turbidity for the first 4 hours and if turbidity is acceptable, tests will be taken every hourly thereafter.

Turbidity Test Method: Turbidimeter in accordance Method 180.1

6 Attachments

The construction plans and specifications for Safety, Environmental and Erosion Control and Field Staff to the Contractor Project Manager.

PERMIT SET
MUST BE ON SITE AT ALL TIMES DURING CONSTRUCTION

ALL NATIONAL LAWS AND REGULATIONS RELATING TO PUBLIC HEALTH OR SAFETY SHALL BE IN ACCORDANCE WITH FEDERAL AND STATE LAWS, ORDINANCES AND REGULATIONS GOVERNING SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction on the Public Right of Way.

NOTICE
INSPECTION REQUIRED

24 HRS PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

DALIA EDGARTOT P.E.
PLAT REVIEWER

PUBLIC WORK OF ART APPROVAL
FOR PAVING, DRAINAGE AND DRAINAGE

BY:_____ DATE:_____
[illegible]

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. ELEIER, P.E.
P.E. LICENSE NUMBER 64936
401 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION, 000006796

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

EROSION CONTROL GENERAL NOTES

SHEET NO.
32

BCHCED REF. NO: XXXXXXXXX

PERMIT SET

MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL NATIONAL STATE AND ORDINANCES GOVERN THE PUBLIC RIGHT OF WAY OR EASEMENTS UNDER THE PROPERTY CONTROL OF THE COUNTY. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COUNTY DESIGN SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.
A Permit for Construction must be obtained from the Broward County Highway Construction and Engineering Division prior to commencing Construction in the road right of way.

NOTICE

INSPECTION REQUIRED

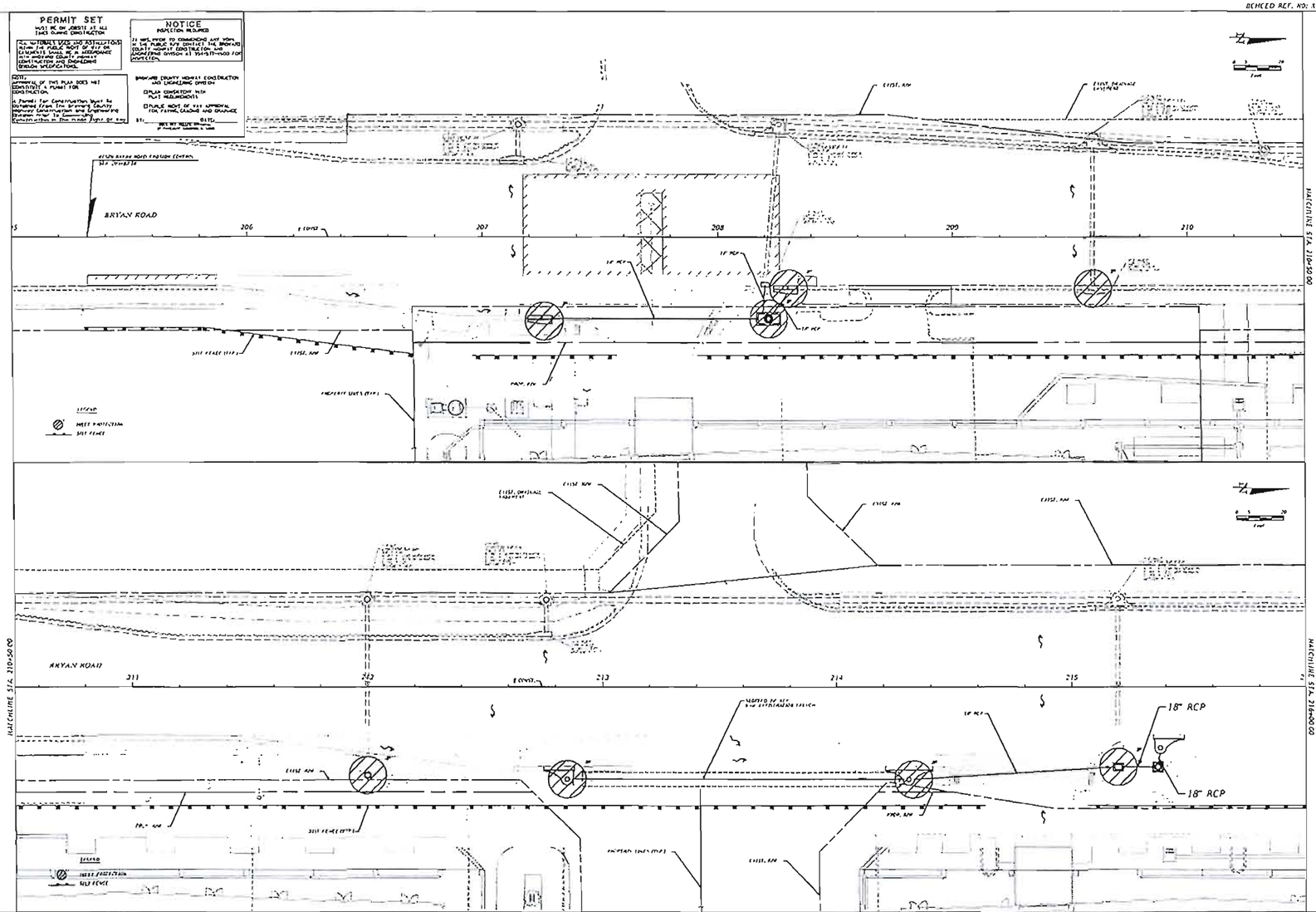
72 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4500 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONFORMS WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
CRIG J. GLEIER, P.E.
P.E. LICENSE NUMBER 64074
635 7th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD EROSION CONTROL

SHEET NO. 33

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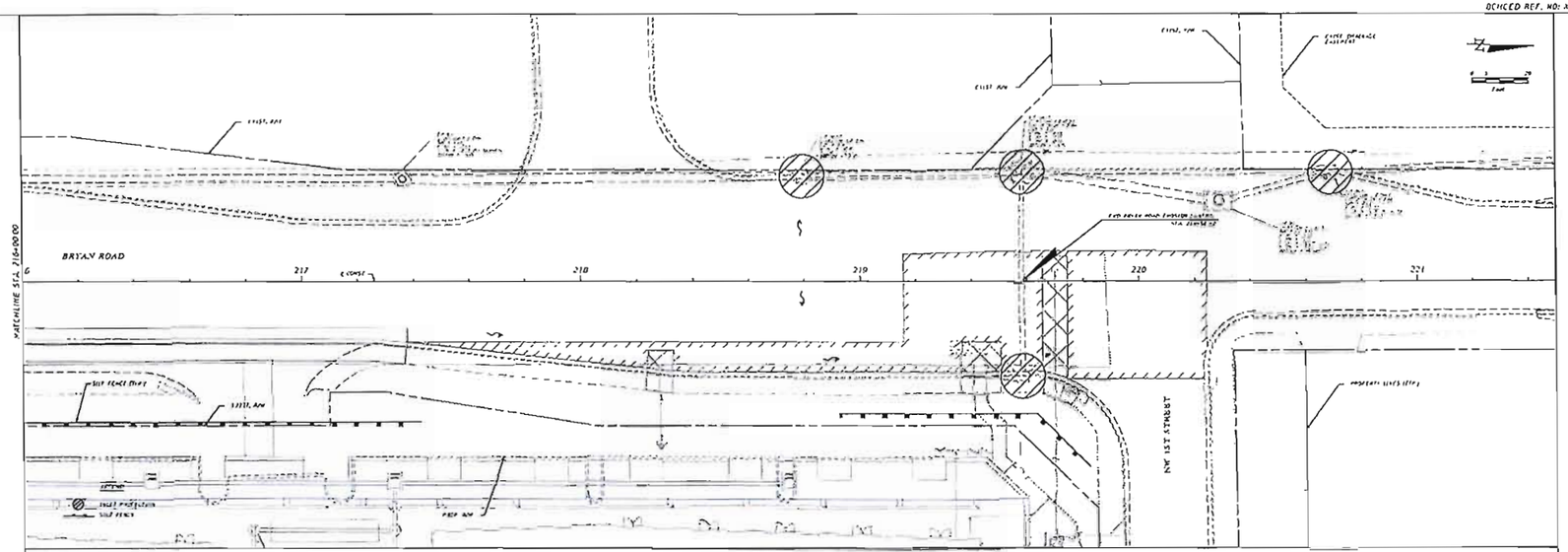

PERMIT SET

NOTICE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64276
145 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD EROSION CONTROL

SHEET NO.

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MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. THE FOLLOWING MAINTENANCE OF TRAFFIC DETAILS FROM FDOT STANDARD PLANS SERIES 102: 600, 611, 612, 613, 614, 615 AND 660 HAVE BEEN PROVIDED TO AID THE CONTRACTOR GENERAL DIRECTION. THE CONTRACTOR SHALL DEVELOP DETAILED TRAFFIC CONTROL PLANS THAT MUST BE APPROVED BY THE BROWARD COUNTY TRAFFIC ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. AT NO TIME SHALL THE CONTRACTOR CLOSE THE ROAD TO THROUGH TRAFFIC. LANE CLOSURES MUST BE APPROVED BY THE BROWARD COUNTY TRAFFIC ENGINEER AT LEAST TWO WEEKS PRIOR TO CLOSURE.

3. THE CONTRACTOR SHALL CONTACT OR NOTIFY ALL AFFECTED PROPERTY OWNERS 2 WEEKS PRIOR TO CONTRACTOR STARTING CONSTRUCTION. CONTRACTOR MUST MAINTAIN ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIME.

4. NOTE MUST BE IN COMPLIANCE WITH FDOT STANDARD PLANS SERIES 102 AND MUTCD 2011 REVISIONS.

5. PEDESTRIAN FACILITIES MUST FOLLOW FDOT STANDARD PLANS SERIES 102 FOR PEDESTRIAN CONTROL OR CLOSURE OF SIDEWALKS.

6. AT THE END OF EACH DAY, THE FDOT STANDARD PLANS SERIES 102 SHOULDER TREATMENT MUST BE FOLLOWED.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A DETAIL MAINTENANCE OF TRAFFIC PLAN TO THE BROWARD COUNTY TRAFFIC ENGINEER FOR WEEKS PRIOR TO ANY CONSTRUCTION FOR APPROVAL.

PERMIT SET
NOT TO BE USED FOR CONSTRUCTION

THIS PLAN IS FOR REVIEW AND SATISFACTION OF THE REQUIREMENTS OF THE BROWARD COUNTY CODE OF ORDINANCES WITH UNDERLYING ZONING, LAND USE, AND ENVIRONMENTAL REGULATIONS. IT IS NOT A CERTIFICATION FOR CONSTRUCTION.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT DEPARTMENT PRIOR TO COMMENCING CONSTRUCTION IN THE PLANS SHOWN BELOW.

NOTICE
VIOLATION MAY RESULT

IT IS UNLAWFUL TO CONSTRUCT OR MAKE A THE PUBLIC PLAN CONTAINED THE BROWARD COUNTY HOUSE CONSTRUCTION AND ENGINEERING DIVISION 115 SOUTH MUNICIPAL FOR VERIFICATION.

BROWARD COUNTY HOUSE CONSTRUCTION AND ENGINEERING DIVISION

DRAWN CHECKED NO
PLAT BOUNDARIES

GRAPHIC RIGHT OF WAY APPROVAL FOR FINAL DRAINAGE AND DRAINAGE

BY: _____ DATE: _____
REPRESENTATIVE
BY PROPERTY OWNER'S DATE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KEFFER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION, 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

TRAFFIC CONTROL GENERAL NOTES

SHEET NO.
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DANIA BEACH
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City of Dania Beach, Florida
Department of Community Development
Planning and Zoning Division
(954) 924-6805 X3643
(954) 922-2687 Fax

Standard Development Application

- ☐ **Administrative Variance**
- ☐ **Land Use Amendment**
- ☐ **Plat**
- ☐ **Rezoning**
- ☑ **Site Plan**
- ☐ **Special Exception**
- ☐ **Variance**
- ☐ **Other:** _____ ***(SEE APPLICATION TYPE SCHEDULE ON PAGES 3 & 4)***

Date Rec'd: _____

Petition No.: SP-056-20

THIS APPLICATION WILL NOT BE ACCEPTED UNTIL IT IS COMPLETE AND SUBMITTED WITH ALL NECESARY DOCUMENTS. Refer to the application type at the top of this form and **"Required Documentation"** checklist to determine the supplemental documents required with each application.
For after the fact applications, the responsible contractor of record shall be present at the board hearing. Their failure to attend may impact upon the disposition of your application. As always, the applicant or their authorized legal agent must be present at all meetings. All projects must also obtain a building permit from the City Building Division. For more information please reference the **Dania Beach Land Development Code Part 6, Development Review Procedures and Requirements.**

Location Address: Please See Attached

Lot(s): _____ Block: _____ Subdivision: _____

Recorded Plat Name: _____

Folio Number(s): Please See Attached Legal Description: Please See Attached

Applicant/Consultant/Legal Representative **(circle one)** Kimley-Horn and Associates, Inc - Jacob B. Lawson

Address of Applicant: 445 24th Street, Suite 200, Vero Beach, FL 32960

Business Telephone: 772-794-4100 Home: _____ Fax: _____

E-mail address: jacob.lawson@kimley-horn.com

Name of Property Owner: Please See Attached

Address of Property Owner: Please See Attached

Business Telephone: _____ Home: _____ Fax: _____

Explanation of Request: Site Plan for 90 WAVE
*For **Plats** please provide proposed **Plat Name** for **Variances** please attach **Criteria Statement** as per **Section 625.40 of the Land Development Code.***

Prop. Net Acreage: 2.75 Gross Acreage: 2.91 Prop. Square Footage: see plan

Existing Use: Marina / Vacant Proposed Use: Mixed Use

Is property owned individually, by a corporation, association, or a joint venture?
Corporation

AUTHORIZED REPRESENTATIVE

I/we are fully aware of the request being made to the City of Dania Beach. If I/We are unable to be present, I/we hereby authorize Kimley-Horn and Associates, Inc **(individual/firm) to represent me/us in all matters related to this application. I/we hereby acknowledge that the applicable fee was established to offset administrative costs and is not refundable.**

I/we are fully aware that all approvals automatically expire within 12 months of City of Dania Beach Planning and Zoning Board or City Commission approval, or pursuant to the expiration timeframe listed in Part 6 of the Dania Beach Land Development Code.

STATE OF FLORIDA
COUNTY OF BROWARD
The foregoing instrument was acknowledged

By: _____
(Owner / Agent signature*)

BEFORE ME THIS 19 **DAY OF** June, **20** 20

By:

Michael Cully
(Print name of person acknowledging)

_____
(Joint owner signature if applicable)

Notary _____
(Signature of Notary Public – State of Florida**)**

RENEE MARIE SMITH
MY COMMISSION # GG066359
EXPIRES January 25, 2021

Personally known X **or Produced Identification** _____

Type of identification produced: _____ **or Drivers License** _____

***If joint ownership, both parties must sign. If partnership, corporation or association, an authorized officer must sign on behalf of the group. A notarized letter of authorization from the owner of record must accompany the application if an authorized agent signs for the owner(s).**

NO APPLICATION WILL BE AUTOMATICALLY SCHEDULED FOR A MEETING.

ALL APPLICATIONS MUST BE DETERMINED COMPLETE BY STAFF BEFORE PROCESSING OCCURS.

Kimley»Horn

Attachment to Development Application – Dania Beach Marina Redevelopment Site Plan

Dania Beach Marina Corp.	
Location Address	90 N. Bryan Road, Dania Beach, FL 33004
Recorded Plat Name	Bryan Road Warehouses Plat (PB 170/112)
Folio Number	5042-33-00-0610
Legal Description	Please see the attached legal description.
Name of Property Owner	Dania Beach Marina Corp.
Address of Property Owner	90 N. Bryan Road, Dania Beach, FL 33004
Business Telephone	786-344-6032

Kimley»Horn

90 Wave - Site Plan Narrative

Dania Beach Marina Corp, NV Marina Holdings LLC, and RJ Marina Holdings LLC ("Applicants") are proposing to construct a mixed-use development on approximately 5.79 gross acres of land generally located along the eastern corridor of Bryan Road between Stirling Road and Northwest 1st Street ("Project") in the City of Dania Beach ("City"). The Applicants are proposing to develop the Project with a mix of residential, commercial and office uses to improve the housing options and commercial opportunities within this area of the City in accordance with the goals, objectives, and policies of the adopted comprehensive plan. The proposed redevelopment is consistent and compatible with the existing and developing properties within the surrounding area and the City's Regional Activity Center ("RAC") land use designation. The Project is part of the overall PMUD-SL mixed use planned development zoning district.

The Applicants are submitting stand alone site plans for each of the two buildings. These will be referred to as 90 Wave for 90 N. Bryan Rd and 70 Wave for the combination of 50 and 70 S. Bryan Rd.

Kimley»Horn

June 17, 2020

David Zipoli
Battalion Chief
Broward County Sheriff's Office
Department of Fire Rescue & Emergency Services
Fire Marshal's Office
Dania Beach District
103 West Dania Beach Blvd.
Dania Beach, Florida 33004

RE: ***90 Wave – Fire Prevention Code Letter***

Dear Mr. Zipoli:

This letter is to identify that the proposed watermain sizing, fire hydrant spacing, and fire hydrant locations for the subject project are in compliance with the Broward County Land Use Code and the Florida Fire Prevention Code.

Please contact me at (772) 794-4110 or Jacob.Lawson@kimley-horn.com should you have any questions.

Sincerely,

Jacob Lawson

Digitally signed by Jacob Lawson
DN: cn=Jacob Lawson, c=US, o=Unaffiliated, ou=A01427E00000166A617F27500004168, email=jacob.lawson@kimley-horn.com
Date: 2020.06.17 14:35:07 -04'00'

JACOB BRINTON LAWSON
LICENSE
No. 83357
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Jacob B. Lawson, P.E.
Associate/Project Manager

K:\VRB_LDEV\147706000 Dania Beach Marina\ENG\Utilities (Wet)\FIRE FLOW\Fire Prevention Code Letter.docx

BROWARD SHERIFF'S OFFICE
DEPARTMENT OF FIRE RESCUE AND EMERGENCY SERVICES
FIRE MARSHAL'S BUREAU
DANIA BEACH DISTRICT
103 West Dania Beach Boulevard
Dania Beach, FL 33004
Phone: (954) 342-4262
Fax: (954) 342-4265

Sheriff Scott Israel

APPLICATION FOR APPROVAL OF THE FIRE PROTECTION WATER SUPPLY DESIGN

Date of Application: July 2, 2020

Site Plan Application #: SP-024-20

Name of Project/Development: 90 Wave

Address of Project/Development: 90 N. Bryan Rd, Dania Beach

Owner/Agent: Dania Beach Marina Corp. / Mike Lally

Design Professional of Record: Jacob B. Lawson, P.E.

Water Purveyor: City of Dania Beach

Water Purveyor Address: 100 W. Dania Beach Blvd., Dania Beach, FL 33004

In order for the Broward Sheriff's Office, Department of Fire Rescue, Fire Marshal's Bureau to provide an approval letter for the adequacy of the fire protection water supply design for the above referenced project, the following information must be provided:

Affirmation of Compliance with Fire Protection Water Supply Design Requirements:

1. The Type of Construction" is 1A in accordance with NFPA 220.
2. The total fire protection water supply needed for manual firefighting (fire flow) and fire sprinkler/standpipe operations is 1,500 gallons per minute. (In compliance with water supply requirements for manual firefighting operations In accordance NFPA 1 (2012 Ed.), Chapter 18, Section 18.4 and the Broward County Land Development Code; and the water supply necessary for fire sprinkler and standpipe operations in accordance with the currently adopted editions of NFPA 13 and NFPA 14).
3. **Statement of verification from the design professional of record, on official company letterhead, that the proposed water main sizing, fire hydrant spacing, and fire hydrant locations, are in compliance with the Broward County Land Use Code and the Florida Fire Prevention Code. (Attach signed and sealed document).**

This will affirm that the above stated information and attached statement of verification for this project/development is accurate and can be relied on for the requested approval letter to the applicable water purveyor.

Signature - Owner/Agent/Occupant: Date 6/18/2020

Signature - Design Professional of Record Date 6/23/2020

Kimley»Horn

Project Name: 90 Wave
Project Number: 147706000
Date: 6/17/2020

Dania Beach Marina Redevelopment Fire Flow and Hydrant Demand

90 Wave	Building Type	Sub-Area sf	Total Area sf	Flow gpm	Sprinkled yes/no	75% Sprinkler Reduction[3, 8] gpm	Minimum Required Flow[4] gpm	Duration hour	Number of Hydrants
Floor 1 - 2 (Retail/Restaurant/Office/Residential Work Live Units) = 103,202 SF Floor 3-4 (Parking) = 157,218 SF Floor 5 (Residential Units, Amenities) = 25,739 SF Floor 6 (Residential Units) = 25,739 SF Floor 7 - 16 (Residential Units) = 356,070 SF	1A	667,968	667,968	6,000	yes	1,500	1,500	4	1
			-			-			
			-			-			

Notes and assumptions:

1. Fire Flow Calculations per NFPA 1 Section 18.4.5.3 Buildings Other Than One and Two-Family Dwellings - 2015 Edition.
2. Maximum Fire Hydrant Fire Flow Capacity from Table 18.5.4.3. All hydrants assumed to be within 250ft of the buildings.
3. Required fire flow shall be reduced by 75 percent when the building is protected throughout by an approved automatic sprinkler system (NFPA 18.4.5.3.2).
4. Minimum required flow shall not be less than 1,000 gpm or greater than 2,000 gpm for 2 hours for buildings protected throughout by an approved automatic sprinkler system (NFPA 18.4.5.3.2 & NFPA 18.4.5.3.4).
5. Florida Building Code (FBC) Building Type VB is equivalent to NFPA Building Type V(000).
6. Florida Building Code (FBC) Building Type IIB is equivalent to NFPA Building Type II(000).
7. All buildings to be protected throughout by an approved automatic sprinkler system.
8. Required fire flow for open parking structures are not protected throughout by an approved automatic sprinkler system shall be reduced by 75 percent where all of the following conditions are met: (1) The structure complies with the building code. (2) The structure is of Type I or Type II construction. (3) The structure is provided with a Class I standpipe system in accordance with NFPA 14. Class I standpipe systems of the manual dry type shall be permitted. (4) The resulting fire flow is not less than 1,000 gpm.

JACOB BRINTON LAWSON
LICENSE
No. 83357
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Jacob Lawson

Jacob B. Lawson, P.E.
Florida License Number #83357

WATER SUPPLY FLOW TEST

Location: Dania Beach, FL

Static 60 psi Flow 1061 gpm Residual 48 psi Pitot 40 psi Date: 02/27/20

Nozzle Type: 1-2.5" Pollard Diffuser(s) Discharge Coeff: 0.90 Time: 9:30 AM

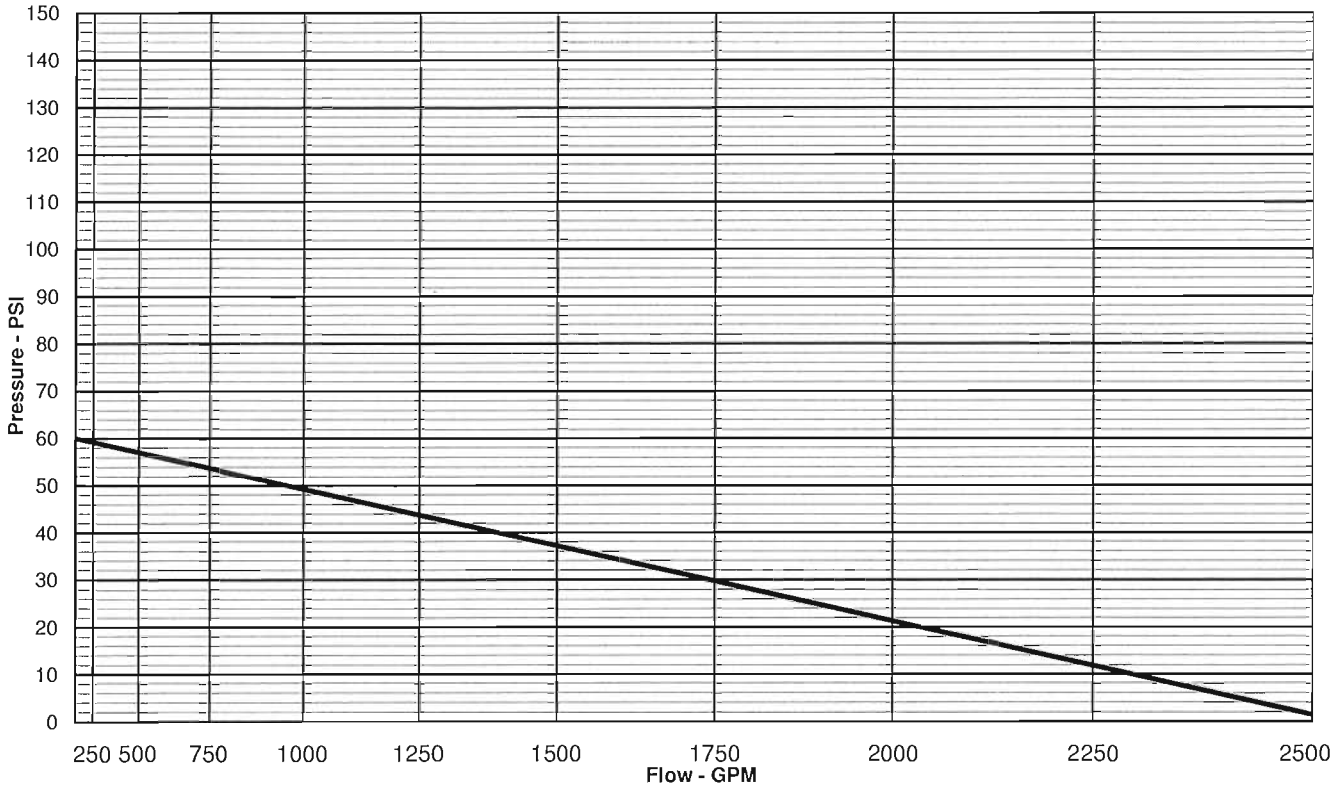
Gauge Location: Hydrant on the east side of S. Bryan Rd, approximately 204 feet south of NW 1st St. EST

Gauge Elevation: 4 ft. AMSL

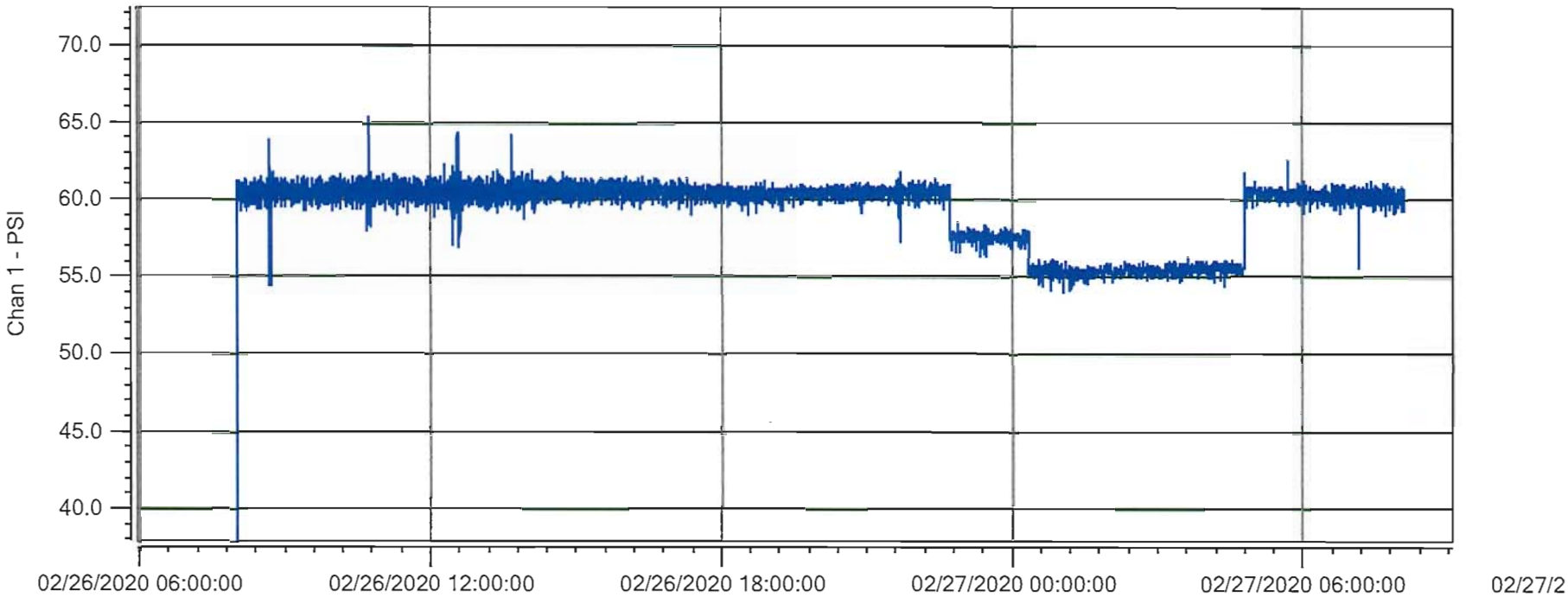
Flow Location: Hydrant on the east side of S. Bryan Rd, approximately 470 feet south of NW 1st St.

Test By Chad A. Lueders Alternatives in Engineering, Inc.

Conferred With:



		Static	Residual	Residual	Residual
Hydrant Flow Rate	gpm	0	2034	2000	0
Available Pressure At Test	psi	60.00	20.00	21.23	



Data Date: 02/26/2020 05:56:56

Unit Tag: Pressure Logger

File: Dania Beach fl 022720.dat

Serial Number: 3404776B0

Kimley»Horn

February 27, 2020
Revised June 29, 2020

Marjorie G. Craig, P.E.
City of Dania Beach
100 W Dania Beach Boulevard
Dania Beach, FL 33004

RE: ***Dania Marina –Transportation Mitigation Impact Fee Calculation***
Dania Beach, Florida
Kimley-Horn # 140432000

Dear Ms. Craig:

The following is a summary of the City of Dania's transportation mitigation impact fees associated with the apartment component of the future Dania Marina development. This phase of the development will consist of 760 high-rise dwelling units, 20,000 square feet of retail space, 16,000 square feet of general office, and 50,000 square feet of restaurant use.

Broward County's adopted PM peak hour trip rates were used to calculate the peak hour trips generated by the proposed apartment. The City's currently adopted Impact Fee Schedule indicates that the current traffic mitigation fee for properties within the City's Regional Activity Center (RAC) is $21.26 per PM peak hour trip. Therefore, to calculate the Traffic Mitigation Impact Fee owed to the City, the number of PM peak hour trips was multiplied by the cost per PM peak hour trip. Table 1 summarizes this calculation for the proposed apartment and retail site. Please note that these trip generation rates are only used for the purpose of calculating impact fees and do not relate to the trip generation calculations for the Dania Marina entitlements.

Table 1: Dania Marina –Apartment Transportation Mitigation Impact Fees

Land Use	# of Trips/ Peak Hour (T/PH)	Trip Length Factor	Adjusted # of Trips/ Peak Hour (T/PH)	Cost Per Trip	Final Cost
760 High-Rise Apartments	281	0.88	247.28	$ 21.26	$ 5,257.17
20,000 square feet of General Commercial	217	0.65	141.05	$ 21.26	$ 2,998.72
16,000 square feet of General Office	48	0.77	36.96	$ 21.26	$ 785.77
50,000 square feet of Restaurant	495	0.65	321.75	$ 21.26	$ 6,840.41

SUMMARY

As determined herein, the City's Traffic Mitigation Impact Fee associated with the proposed Dania Marina site is $15,882.07. Please contact me via telephone at (561) 840-0248 or via e-mail at chris.heggen@kimley-horn.com should you have any questions regarding this determination.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

Christopher W. Heggen, P.E.
Transportation Engineer

Florida Registration
Number 58636
Certificate of Authorization
Number CA00000696

CHRISTOPHER W. HEGGEN
LICENSE
No. 58636
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Christopher W. Heggen, P.E. using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on electronic copies.

Christopher W Heggen
2020.06.29
14:35:47 -04'00'

k:\wpb_tpto\1477\147706000 - dania marina\tia\rac\2020-6-29 dania marina rac.docx

Kimley»Horn

September 3, 2020

City of Dania Beach
100 W. Dania Beach Boulevard,
Dania Beach, FL 33004
Phone: (954) 924-6805

RE: SP-056-20 Dania Beach Marina (WAVE 90)

To Whom it May Concern,

Please accept the following responses to your comments concerning the above referenced project.

TRAFFIC ENGINEERING
Xavier R. Falconi, P.E.

Trip Generation – August 5 TIA

Comment) It is not a good practice to borrow relationships regarding AM peak pass-by capture rates published by ITE for fast food restaurants and apply them to the restaurant uses used here. Please remove all the AM peak pass by capture reductions for the restaurant uses, revise all the AM peak analyses in the future build condition, and revise the report consistent with the corrected volumes. No evaluation of future build AM peak conditions is possible until the analysis is done with the corrected volumes.

Response) ***As discussed on our phone call on 8/26, we have provided additional reference material from the ITE Pass-By Trip Generation Handbook, 3rd Edition that was used in extrapolating an AM peak hour pass-by rate for the restaurant uses. As discussed, ITE does not provide data for pass-by rates for high-turnover sit-down restaurant or quality restaurant during the AM peak hour; however this does not mean that there is no pass-by during this time, only that data has not been published. In order to determine an appropriate AM pass-by rate, we have compared the ratio between AM and PM peak hour pass-by rates for fast food restaurant to the PM peak hour pass-by rate for quality restaurant and high turnover sit-down restaurant uses. The AM and PM peak hour pass-by rates for fast food restaurant were basicallyequal (49% in the AM peak hour and 50% in the PM peak hour); therefore, the pass-by rates for the quality restaurant and high turnover sit-down restaurant are expected to be the same in the AM peak hour as the rates published for the PM peak hour. There are a few other pieces of supporting evidence we have included for the***

necessity of providing AM peak hour pass-by reductions for the proposed restaurant space. The ITE rates for AM peak hour trips for Quality restaurant and High Turnover Sit-Down restaurant are 0.73 trips/ksf and 9.94 trips/ksf respectively. In the original submittal the proposed 50ksf of restaurant space was analyzed as Quality restaurant and after addressing the first rounds of comments half of it was changed to High Turnover Sit-Down restaurant in order to be conservative, considering there are no proposed tenants at this time. The AM peak hour trip generations for these two land uses differ by an order of magnitude. Based on the surrounding land uses found in Dania Pointe, and the proposed 90 Wave and 70 Wave sites operating as a mixed-use development we would expect that the actual trip generation for the restaurant space to generate trips closer to what would be expected from a Quality Restaurant. The 90 Wave & 70 Wave residential units and Dania Pointe visitors would likely generate much of the restaurant traffic and therefore would be either walkers or included as pass-by trips. We have included the ITE material related to pass-by rates for reference in Appendix C of the updated report.

Synchro Analyses

Comment) Please provide the existing PM peak Synchro analyses for all three offsite intersections. The included reports are the AM analyses with a different header. The three intersections are:

1. Stirling Road at Bryan Road
2. NW 1st Street at Bryan Road
3. Old Griffin Road at Bryan Road

Response) ***The existing PM peak Synchro analysis has been corrected with the appropriate existing volumes and the report has been updated.***

Comment) Please revise the volumes for 2024 AM background for the analysis of Bryan Road at Stirling Road consistent with the volume development table.

Response) ***The volume development table for AM background was incorrectly referencing committed developments from 150 S Dania and has been appropriately updated.***

Comment) Please revise the volumes in the AM analysis of the North driveway consistent with Figure 10.

Response) ***The volumes for the north driveway have been revised in Figure 10 in the updated analysis.***

Comment) Please revise the volumes in the AM and PM analyses of the south driveway consistent with Figure 10.

Response) ***The AM and PM future Synchro analysis has been updated to properly reflect those volumes shown in Figure 10.***

Report Body

Comment) The requirement to include 95th percentile queue lengths and turn bay capabilities in Tables 2-4 was ignored. Please add them.

Response) ***The turn bay storage capacities and 95th percentile queue lengths have been added to the revised report. A section including analysis of these turn bays has also been added as well.***

Comment) In Figure 8, please revise the AM peak 2-way volume north of Stirling Road.

Response) ***The volume shown in Figure 8 is correct and the 2-way volumes for background AM peak hour north of Stirling Road were correct, however, the volume development sheet had incorrectly referenced committed trips from 150 S Bryan and has been updated to the correct values.***

ENGINEERING
Mohammed Sharifuzzaman

TIER 1 COMMENTS

Comment 1) Provide R/W (width/dimensions), NVAL, R/W dedication, and all Easements information on all engineering plans and Site Plan. Call out right-of-way dedication on the engineering plans and site plan. Not satisfied. Indicate if the R/W is being dedicated with this application and development. Call out the plan accordingly. Call out proposed R/W instead of future potential R/W.

Response 1) ***The ROW is being dedicated to the County as requested by the City at time of Master Plan Approval. This is shown on the Site Plan and is shown on the engineering plans as well. We have also called this out as proposed ROW in lieu of potential ROW.***

Comment 2) Provide offsite roadway improvements plans with sufficient details. City R/W permit shall be required for offsite improvements. Not satisfied. Proposed removal of muck within R/W may impact the existing underground utilities. Clarify how the existing utilities to be protected including WM, gas main and drainage pipes.

Response 2) ***We have notes on the offsite plans requiring the contractor to protect the utilities during any excavation. The Contractor is responsible for means and methods of excavation and protection for such. This is exactly what we did for the previously permitted roadway drawings***

for the work completed with the City for the development across the street. This note is shown on the General Notes Sheet-3, notes 21-27. This was discussed during DRC Meeting on August 27th.

Comment 3) Provide site cross sections in engineering plans. Not satisfied. Provide the requested sections with sufficient details. Indicate muck removal, new cut & fill, etc. The offsite plans cross sections refer to onsite cross sections. The sections shall be provided along all sides of the site.

Response 3) ***Above ground cross sections have been provided. Per email from the City Engineer on 8-25, the underground information that the reviewer is looking for is now only required at building permit review as described per the City code.***

Comment 4) Will there be header curb or 'D' curb along paver bricks? If so, please provide sufficient details on the plans. Not satisfied. Type D curb shall be required to prevent offsite sheet flow. Also, revise Type F curb to Type D curb to match offsite roadway plans.

Response 4) ***A D-curb has been provided as requested where reviewer was concerned with offsite flow and details updated to reflect it. The grading plan has been updated to show the intent that offsite flows will not shed below the 25 yr storm event. Finer/intricate grading will occur at time of engineering review and approval.***

Comment 5) Indicate how the solid waste will be collected from the site? Provide a letter from solid waste management service company as applicable. Not satisfied. There is no trash facility for north building. It is not clear how the trash can be transferred to south building.

Response 5) ***We have coordinated with Choice Waste of Florida, Inc. and they have provided their letter of acceptance and ability to service our site based on our plans provided them and you. See exhibits included with this resubmittal that show that this works. Their letter is also included with this resubmittal package.***

Comment 6) If a parking aisle requires access for emergency vehicles, garbage trucks or trucks moving to or from a loading area, that parking aisle shall be at least twenty-four (24) feet wide. (Section 265-110). Not satisfied. The proposed loading spaces and access may not be suitable for trucks operation.

Response 6) ***Please see included with this submittal the revised exhibits showing the west columns relocated at the head of the loading area so that the truck can better maneuver.***

Comment 7) Please provide water and sewer availability letters from utility providers. Not satisfied. Please submit the letters from City Engineer. The applicant

will be responsible for Force Main modeling and upgrading of Lift Station #8 if required. Water and sewer service agreement shall be required.

Response 7) ***These letters are included with this resubmittal. The analysis is a tier 2 comment agreed too at DRC meeting on August 27th and will be provided at time of design and permitting of the lift station.***

Comment 8) Please provide drainage report and calculations indicating storm water retention in project site. Min. Perimeter grade shall be at or above 25-year 72-hour design storm stage. Not satisfied. The submitted conceptual calculations are not satisfactory. Hydraulic Conductivity for exfiltration trench shall be based on existing site test results. Provide documentation or tests for drainage well capacity. Well discharge shall only start at elevation 3.50 feet NAVD. Exfiltration trench length shall be twice than required when used for quantity purpose (Water quality volume is 0.42 ac-ft). Provide updated conceptual calculations and drainage plans satisfying 25-year storm stage and perimeter berm requirement. The drainage well casing pipe top elevation shall be set at 3.50 feet NAVD to prevent backflow. Revise the drainage well structure detail accordingly. No detail provided for retention area drainage wells.

Response 8) ***Per email from the City Engineer on 8-25, the complete drainage analysis will be provided at time of building permit review. Conceptual calculations and details have already been provided. We will provide calculations and design consistent with Broward County, SFWMD, City of Dania Beach and submitted signed and sealed Drainage Statement. Final Paving Drainage and Grading Drawings will be provided at said time.***

Comment 9) Comments for DDG: Not satisfied. Revise the Section for Utility Provider and Service. Lift Station is private. All utilities beyond the point of service are private facilities.

All parking spaces shall be clearly delineated by a single four-inch wide, white, painted striping wherever a hard-paved parking surface is required. If double line to be utilized then DDG shall specify the requirement.

Response 9) ***The DDGs have been updated for the utility section and the striping will be clearly delineated by a single line. Language from the DDGs has been updated to read as follows. UTILITY PROVIDER AND SERVICE Water and wastewater infrastructure service is presently available to the property and provisions have been made for the connection to these systems; connection points will be coordinated with the City of Dania Beach. Utilities are intended to be designed and developed as public private infrastructure connecting to public systems. Lift Stations are to be constructed as private stations. All utilities beyond the point of service are private facilities. Utility designs will meet Broward County and Florida Department of Health***

and Environmental Protection Standards. Easements necessary to serve the development (internal) shall be provided as follows:....

TIER 2 COMMENTS:

Comment 1) Additional comments may apply and will need to be addressed prior to Building Permit approval.

Response 1) ***Acknowledged.***

Comment 2) Provide Maintenance of Traffic (MOT) Plan by a licensed General Contractor/Professional Engineer in the State of Florida (If applicable).

Response 2) ***This will be provided as necessary for engineering permit issuance.***

Comment 3) In accordance with City Code of Ordinances in Article 415. SIDEWALKS AND SWALES, Owner is responsible for the construction of sidewalks / swales within the road ROW when buildings are constructed or substantially improved.

Response 3) ***See offsite roadway plans included with this submittal.***

Comment 4) Detail and complete engineering plans will be required prior to Building and R/W permit approval.

Response 4) ***Acknowledged.***

Comment 5) Provide utility piping conflict details plan, along with documentation to demonstrate acceptability of the separation between water, sanitary, storm-water service lines, etc.

Response 5) ***This will be provided as necessary for engineering permit issuance.***

Comment 6) Show also all existing and proposed utilities on the landscaping plans for potential conflicts.

Response 6) ***This is shown.***

Comment 7) Provide BC standard details for pavement marking and signage. All traffic control signs shall conform to Broward County Traffic Engineering (BCTED) and MUTCD standards. BCTED signs specifications consist of Type XI retroreflective sheeting materials except for school zone and pedestrian signs which shall be comprised of retroreflective fluorescent yellow-green sheeting certified type IV.

Response 7) ***This will be provided as necessary for engineering permit issuance.***

Comment 8) All pavement markings shall be alkyd based thermoplastic and fully

retroreflectorized, per BCTED specifications with the exception of parking stall striping.

Response 8) ***Acknowledged.***

Comment 9) Provide ADA parking, access / driveway, and sidewalks /ramps including dimensions in accordance with Chapter 553 of the Florida Statutes. "Accessibility of Handicapped Persons" and latest edition of "Accessibility Requirements Manual" by Department of Community Affairs, Florida Board Building Codes and Standards, and 'in accordance with Americans with Disability Act (ADA).

Response 9) ***This is provided.***

Comment 10) Provide drawing file (dwg or dgn) disk of the approved site plan in Florida State Plane Coordinate (NAD 83). This should be addressed as part of the final submittal.

Response 10) ***This will be provided as necessary for engineering permit issuance.***

Comment 11) Provide regulatory agencies' approval documentation and Permits/Licenses (as applicable) as part of the final submittal, prior to issuance of the Building Permit (Broward County Surface Water License, Broward County Wastewater Permit, Florida Department of Environmental Protection, FDOT, BC Environmental, BC Aviation, BCTED etc.). Also, include Utility / Right of Way Permits from City, Broward County, and State Roads as applicable.

Response 11) ***This will be provided as necessary for building permit issuance.***

LANDSCAPING

Jake Ripp

DDG Comments

Comment 1) Update Section (5)1. C-10 Canal Buffer to read that the trademarked Greenscreen.com will be utilized in situations where the potted trees/palms cannot be provided.

Response 1) ***This has been addressed.***

Comment 2) Update the C-10 Canal requirements in the Exhibit 9: Buffer Summary Table to a requirement of 1 tree and 10 shrubs every 80 LF. This is half of the standard requirement of 1 tree every 40 LF.

Response 2) ***This has been addressed.***

Tree Disposition and Landscape Plan Comments:

Comment 1) Per Sec. 825-80 and Sec. 825-140(C), specimen trees shall be relocated if they cannot be retained in-place. Removal is only allowed if relocation is not feasible. all of the specimen trees proposed for removal are good candidates for relocation. Incorporate these trees into the landscape plan as relocated trees and update the disposition or provide adequate justification why these trees cannot be relocated.

Response 1) ***All but four specimen trees have been designated to remain or be relocated. The four Specimen trees still designated to be removed are trees 1095, 1096, 1252, and 1277. These trees are in locations that will not allow them to be properly preserved during construction and are too large to adequately be replanted on site. Trees 1095 and 1096 are in very close proximity to the site's lift station and the installation of the lift's connecting utilities would prove detrimental to the tree's survival. All other specimen trees are designated to remain or be replaced.***

Comment 2) The Sec. 825-100(A)(5) 1.5 canopy mitigation multiplier should not be added to the canopy mitigation of category I or II invasive species. Include a total non-invasive canopy to be removed, the total non-invasive canopy to be removed with the 1.5 multiplier, total category II canopy to be removed (mitigated at a one-to-one rate), and the total category I invasive canopy to be removed (mitigated at 25% or ..25 multiplier). Include the total canopy to be removed after all multipliers are added.

Response 2) ***Tree mitigation calculations have been broken down into the above categories to properly display how the total canopy removed was determined.***

Comment 3) Provide the formula used to calculate the specimen tree appraisal values. Include the nursery quotes used for the replacement cost.

Response 3) ***Formula is taken from Dania Beach Code 825.125.C.2 "Appraised Tree Value = Price of Replacement Tree × 2.7 × Size Factor × Health/Condition Factor × Location Score". A table showing appraisal calculation for each specimen tree has been included on sheet L0.50'***

Nursery Quotes:
Category 1A Tree (5.5" 16' HT Live Oak) - $600
Replacement Palm (6' CT Min Sabal Palm) - $100
Category 3 Tree (6' Ht Min Silver Buttonwood) - $125

Comment 4) Silver buttonwoods are category 3 small trees and are given a canopy credit of 100 SF for mitigation purposes, not 300 SF which currently shown. Update the mitigation calculations accordingly.

Response 4) ***Tree mitigation calculations have been updated to show this, see sheet L0.50.***

Comment 5) The landscape plan does not show existing trees 1232 or 1233 while the disposition plan shows them to be relocated. Clarify.

Response 5) ***This discrepancy has been corrected. Tree designations now match throughout the landscape set.***

Comment 6) Update the renderings to match the proposed landscape plan.

Response 6) ***We have added a note in the DDGs below the first rendering provided after discussion was had with Jake Ripp on 9/1/2020. The note to be added says the renderings shown in the DDGs are conceptual only and that the City approved Landscape plans will govern.***

Comment 7) Provide the proper C-10 buffering in accordance with the updated DDG comments. If the trees cannot be provided due to spatial constraints, utilize the trademarked greenscreen to provide adequate buffering from the residential properties across the canal.

a. The 7 existing trees to remain along the south side of the C-10 canal do not provide proper buffering along the entire perimeter. Either install potted trees/palms to make up for the lack of buffering or provide the trademarked greenscreen.

Response 7) ***Greenscreens have been provided to accommodate the lack of buffering. These will be 4' wide greenscreens, each accounting for 1 canopy per discussion with Jake Ripp (8/27/2020)***

DRC 1st Zoning Review Site Plan
Corrine Lajoie

Site Plan Comments:

Comment 1) Incomplete information was provided. Further review and comment will be conducted by staff after additional information is provided by the applicant. See comments below. Per Section 635-50 the following information must be provided:
~~(A) The proposed title of the project and the name of the~~

~~professionals who prepared each plan, including engineer, architect, landscape architect and the developer;~~

~~(B) The north arrow, scale and date;~~

~~(C) Existing zoning of the subject site and adjacent properties;~~

~~(D) Proposed changes in zoning to the applicant property, if any;~~

~~(E) Adjacent land uses and buildings within two hundred (200) feet of the property, including use and number of floors, dimensioned to property line of subject site;~~

~~(F) Legal description and net acreage;~~

~~(G) Location sketch of subject property in relation to surrounding area;~~

(H) Site boundaries clearly identified, dimensioned, and tied to section corners; Show on site plan. 2x time requested.

Response H) ***This has now been clearly shown now based on conversations with Corinne and Eleanor on August 21st based on what we're looking for. Section corner is now shown on the site plan within the ROW.***

~~(I) Locations and dimensions of all existing and proposed rights-of-way and dedications, including ultimate right-of-way lines (if applicable), easements, property lines, streets, buildings, watercourses and water bodies, pedestrian areas, and other existing physical features in or adjoining the project, and their disposition (example: to be retained, demolished, modified, etc.);~~

(J) The location and dimensions of proposed setback lines; 2nd time requested.

Response J) ***This has been corrected. See revised site plan.***

~~(K) The location and dimensions of proposed reservations for parks, playgrounds, open spaces and other common areas;~~

~~(L) The location, dimensions, bearings, and curve data of proposed streets, alleys and driveways;~~

~~(M) The location, dimensions and character of construction of proposed curb cuts, entrances and exits, parking and loading areas (including number of parking spaces and loading spaces), pedestrian use areas, and vehicular use areas;~~

~~(N) Photometric plan;~~

~~(O) Location and dimensions of all proposed buildings, excavations, and structures to lot lines and to each other;~~

~~(P) Conceptual preliminary drainage and grading plans and statement of proposed drainage systems and methods;~~

~~(Q) Typical trash and garbage disposal and recycling system, including typical enclosure details and the location of each;~~

~~(R) Separate landscape plan prepared in accordance with article 275, "Landscaping Requirements";~~

~~(S) Location, character, size, height and orientation of proposed~~

~~signs, including building signage details shown on plan elevations and method of illumination;~~

~~(T) All existing and proposed pedestrian walkways and bicycle paths;~~

~~(U) Existing and proposed public transit routes, bus shelter locations and easements for such shelters, and proposed layout of rights-of-way, if necessary;~~

~~(V) Proposed building floor plans and architectural elevations of all sides of all buildings and structures, including building height and finished floor elevations;~~

~~(W)Type and location of mail receptacles;~~

~~(X) Conceptual utilities plan, including all underground and above-ground improvements;~~

(Y) The following computations: Show on site plan.

(1) Total gross and net acreage; Only "Site Area" is identified, not gross as required. 2x requested

Response 1) ***We now show gross site area (measured to Centerline of all ROWs as discussed in DRC), site area, ROW dedication area, and net site area after ROW dedication as requested at DRC Meeting.***

(2) Proposed net and gross density, and number of dwelling units for site plans with residential components; Density is not identified on site plan. Sheet C-100. 2x requested.

Response 2) ***Gross and net density is now show on the plan as requested at DRC Meeting. This is based on Gross and Net Density numbers mentioned above.***

(3) Total existing and proposed square footage of buildings and breakdowns by floor, use type, bay or tenant space, and dwelling unit, including required and provided minimum floor areas; Building square footage not provided on Site Plan, Sheet C-100. 2x requested.

Response 3) ***These items are provided on the right hand side of the site plan as shown during our meeting with Corinne and Eleanor on August 21st.***

(4) Area devoted to vehicular use areas (roadways, aisles, parking); Only "ground" area identified. 2x requested.

Response 4) ***This was previously provided, but not in logical location on the plan. We have added this value under the lot coverage data section for ease of finding. This was discussed in our August 21st meeting with Corinne and Eleanor.***

(5) Gross project area allocated for common open space; Non provided. 2x requested.

Response 5) ***Per DRC Meeting on 8-27, we were asked to include the Open space located on the amenity deck. Gross open space and net***

site area open space is now shown. Gross open space includes the offsite streets where Net site area open space does not. The open space from the amenity deck is included in both numbers. Open space is specifically defined within the DDGs.

~~(6) Lot coverage by roofed structures;~~

~~(7) Pervious and impervious surface area, also expressed as a percentage of the site area;~~

(8) Number of required and provided parking spaces including handicap-accessible, compact and any spaces devoted to attendant parking if permitted; Provide calculations to ensure compliance.

Response 8) ***The parking requirements are now clearly provided in the DDGs and the site plan has been updated accordingly to clear up the confusion. The relevant Code sections are now referenced within the DDGs. Warranted parking ratios are based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All parking required for this establishment is met by the required ratios within the DDGs and on the Site Plan.***

~~(9) Minimum lot area, width and depth required and provided;~~

(10) Minimum yard setbacks or specific build-to lines required and provided; Dania Beach Boulevard required setback = 14' per proposed DDG. Revise Sheet C-100 accordingly.

Response 10) ***This has been corrected and provided.***

~~(11) Maximum and minimum (if applicable) required and proposed building height;~~

~~(12) Minimum floor area required;~~

(13) Adjacent zoning and existing land uses;

Response 13) ***Per DRC Meeting with Corinne and Eleanor on 8-21, we were asked to show the land use designation as RAC. This is now corrected.***

~~(Z) Traffic circulation and pavement marking plan (may be shown on site plan sheets);~~

~~(AA) Phasing plan, if applicable, with beginning and ending dates of construction of the entire project and beginning and ending dates for all phases of the project;~~

~~(BB) For properties under consideration for rezoning to PRD-1, a document detailing development standards and criteria (i.e., building height, setbacks, density, lot area, landscaping, parking,~~

~~open space, lot coverage, sign regulations, etc.);~~
~~(CC) Color site plan elevations and renderings for meeting presentation purposes;~~
~~(DD) If necessary, written authorization to reproduce any documents accompanying site plan submittals from the applicant, agent, architect, landscape architect, engineer, attorney, etc.~~

~~Comment 2) APPLICATION: Confirm application was properly completed, signed, and proper application fee was paid.~~

~~Comment 3) Must submit application, application fee, justification statement based on criteria identified in the LDC, and any other documentation necessary for all Variances, Special Exceptions, Waivers, Design Variations, etc needed for the project at time of Site Plan Submittal. Failure to do so will result in delay of the project.~~

Comment 4) TIER 1 - PLATTING: Provide letter from Broward County identifying whether this property needs to be platted or replatted.

Response 4) ***Please see attached.***

Comment 5) SCHOOLS: Obtain a SCAD report from Broward County School Board regarding school impact fees. 2 x requested.

Response 5) ***These letters have been provided to the City and are submitted with this resubmittal.***

Comment 6) RIGHT-OF-WAY: ~~Identify if R-O-W dedication is required.~~ Identify dimension of ROW dedication on Site Plan and provide language of City Attorney's Office review before recordation at Broward County.

Response 6) ***Dimensions are now provided in the site plan and language will be provided as necessary at the required time.***

~~Comment 7) TRAFFIC STUDY: per Section 605-30(K), a traffic study is required for all development generating in excess of 50 peak hour trips. Provide estimated number of peak trips.~~

Comment 8) TIER 1 - UTILITIES: Identify projected water, sewer and solid waste demand for the project. Must provide documentation from Public Services, or Broward County as applicable, stating capacity is available to meet the projected demands prior to public hearing. 2x requested.

Response 8) ***These letters have been provided to the City and are submitted with***

this resubmittal. We have coordinated with Choice Waste of Florida, Inc. and they have provided their letter of acceptance and ability to service our site based on our plans provided them and you. See exhibits included with this resubmittal that show that this works. Their letter is also included with this resubmittal package.

~~Comment 9)~~ ~~IMPACT FEES: Impact fees that will be required for the project are required at time of building permit issuance.~~

Comment 10) SIGNS: Provide copy of all signs for compliance review. Provide proposed square footage of building identifications sign to insure compliance.

- ~~Provide dimensions of maximum tenant signage.~~
- ~~Provide detail of any proposed monument and/or directional signage proposed.~~
- The proposed DDG does not identify any regulations regarding Building identification signage. Therefore, any building identification signage proposed will be reviewed against the City's LDC.
- No dimensions are provided for the proposed building identification signage on Sheet Sign. Provide proposed dimensions to ensure compliance.

Response 10) ***Please see updated language in the DDGs. Please see signage plan in resubmittal. The language of the DDGs diverts us to code unless otherwise noted in the DDGs. Building Identification maximum percentage is already addressed in the DDGs.***

Comment 11) The proximity to the airport will be required FAA/BCAD review and approval. Contact William Castillo, Airport Planner with Broward County Aviation Department, located at 2200 SW 45 Street, Suite 101, Dania Beach, FL 33315, (954) 359-6100. 2x requested.

Response 11) ***This is in process and will be provide to the City at time of building permit.***

Comment 12) TIER 1 - PARKING: Per the proposed DDG, Section (9) provides Off-Street Parking Ration but Sheet C-100 utilizes Shared Parking provisions per the City's LDC. Clarify which regulations the project will be using. ~~States parking ration per LDC, Section 265-50, which requires parking based on number of bedrooms. Provide parking calculations on site plan identifying the different requirements for each unit type to ensure compliance.~~

- When calculation Share Parking, unclear where Base Line

Provisions/Gross Demand numbers come from. Provide clarification.

Response 12) ***The parking requirements are now clearly provided in the DDGs and the site plan has been updated accordingly to clear up the confusion. The relevant Code sections are now referenced within the DDGs. Warranted parking ratios are based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All parking required for this establishment is met by the required ratios within the DDGs and on the Site Plan.***

~~Comment 13)~~ ~~LOADING: Provide dimensions to ensure compliance.~~

Comment 14) TIER 1 - USE: ~~Density?~~ Proposed density exceeds High Rise units available in the RAC. Conversion is required prior to public hearing.

Response 14) ***The conversion request was made by the City and is in process, per email from Corinne Lajoie.***

Comment 15) Provide minimum bicycle parking requirements identified in Section 265- 51. ~~Must confirm required parking is met before bike compliance can be determined.~~ Break down parking requirement for residential and non-residential to calculate required bicycle parking. 2x requested.

Response 15) ***This is now provided on the site plan. Requirement for such is in the DDGs.***

~~Comment 16)~~ ~~ROOFTOP MECHANICAL EQUIPMENT: Must meet regulations in Section 220-60. Identify how equipment will be screened from view. Identify on plans.~~

~~Comment 17)~~ ~~COST RECOVERY: per Article 685, cost recovery funds may be utilized for various costs of the city's administrative and outside fee consultants for the processing and review of applications. Per City Attorney's request, please provide $5,000 cost recovery fee with next submittal. The cost recovery money can be returned if not utilized, or additional fees may be requested if addition fees are incurred.~~

Comment 18) PARK IMPACT FEES: Per Resolution No. 2015-071, $1,825.00 per Single Family/Townhouse dwelling, $1,364.00 per Multifamily

Dwelling,
$1,140.00 per Mobile Home must be paid for Recreation and Open Space Impact Fee at time of building permit issuance. Therefore, $433,200 (380X1140) is due at issuance of a building permit

Response 18) ***Impact fees will be paid at time of permitting.***

Comment 19) RAC TRAFFIC IMPACT MITIGATION: Provide an analysis, signed and sealed by a certified engineer, identifying the amount of CRA mitigation for traffic impact due based on resolution No. 2014-049 which established a rate of $21.26 per p.m. peak hour trip. Kimley-Horn Traffic Impact Analysis dated 6/6/20 identifies 425 PM Peak Hour Trips. Kimley-Horn Transportation Mitigation Impact Fee Calculation dated 6/29/20 identifies 1,041 PM Peak ~~Hour Trips. Clarify.~~ It also identifies 747.56 "Adjusted # of Trips". Therefore, $22,131.66 (1041 x $21.26) is due for each prior to issuance of a building permit.

Response 19) ***Acknowledged. The RAC letter has been provided. The RAC letter is still consistent with the comment above and the latest approved traffic study by the City consultant.***

Comment 20) TIER 1 - Must provide latest revised set of plans on disk prior to going to public hearing.

Response 20) ***Acknowledged. This is now an electronic submittal. Hard copies of the site plan application documents have been provided to the City. A Disk has been provided to the City.***

~~Comment 21)~~ ~~For the purpose of evaluating flood and roadway conditions and mitigation related to the future development project, all topographic information will include LIDAR spot elevations within 150' of the subject property boundaries.~~

Comment 22) TIER 1 - The applicant is encouraged to contact neighbors adjacent to, as well as condominiums and neighborhood associations to advise of this property. Please provide acknowledgement and/or documentation of any public outreach. 2 x requested.

Response 22) ***Applicant met with NW Byrd Pointe Civic Association on August 20, 2020. Eleanor of City of Dania Beach Community Development were present. Applicant will be having ongoing conversations with the Association and Residents.***

~~Comment 23)~~ ~~For any building 5 stories or greater, provide a shadow study identifying how adjacent properties will be affected overlaid on an~~

~~aerial photo. Revise to show the entire shadow cast, especially to the east.~~

Comment 24) TIER 1 - Applicant must obtain a statement from the City Engineer saying that the traffic study/statement submitted by the applicant is complete and accepted prior to public hearing. 2 x requested.

Response 24) ***Email Approval was provided by Xavier Falconi, reviewer of the traffic, to Corinne Lajoie on 8/31/2020.***

Comment 25) TIER 1 - Applicant must obtain statement from City Engineer, stating that adequate water supply exists for this project. 2x requested.

Response 25) ***These letter have been received and provided to Corinne and with this resubmittal.***

Comment 26) For all projects resulting in buildout of the site, such that construction staging cannot occur on site, must obtain Staging Plan approval by the Community Development Director prior to issuance of a building permit. The Staging Plan must include, but is not limited to, location of equipment and material during construction.

Response 26) ***This will be provided at time of permitting.***

Comment 27) For all projects resulting in buildout of the site, such that construction staging cannot occur on site, the applicant must obtain Maintenance of Traffic Plan approval by the City Engineer for period of construction prior to issuance of a building permit.

Response 27) ***This will be provided at time of permitting.***

Comment 28) TIER 1 - Please e-mail resolution and legal description, prepared by an attorney, for development approval in word format to clajoie@daniabeachfl.gov four
(4) weeks prior to public hearing.

Response 28) ***Resolution will be provide 4 weeks prior to commission hearing as requested at DRC Meeting.***

Comment 29) TIER 1 - Must provide mailing list and labels for property owners within 450' of the development site to Community Development, consistent with regulations identified in the City's Code of Ordinances, Chapter 28, Section 610-30. The labels are needed 30 days prior to public hearing, information must be no older than 60 days. The City

will prepare and mail the notices.

Response 29) ***This was provided to the City on August 18th to Ibel Larios.***

~~Comment 30)~~ ~~Applicant must provide the results of a Municipal Lien Search Request from the Finance Department stating that there are not outstanding Code Violations or Liens on the property prior to the item being scheduled for a public hearing. The statement must be no older than 90 days prior to the public hearing date. Per Section 680-40, any property with outstanding Code Violations or Liens shall not be schedule for public hearing. The form is available on the City's Web site, cost $100 and takes 5 days to process.~~

Comment 31) TIER 1 - Per O-2017-022, for properties over an acre in size, the applicant must obtain and post property signs in accordance with the NEW City requirements. Please see the end of this document for guidelines.

Response 31) ***This has been provided as discussed during DRC on August 27th. Please provide the documentation for the signage and the applicant will post the signage by the appropriate posting date of September 29th for the October 13th Commission hearing.***

Comment 32) Per O-2017-027 & O-2018-019, commercial properties under construction are required to provide security to fencing with screening showing project rendering covering at least 75% of the length of the fence along an arterial or state right-of-way & 25% for local roads and must include name and intended use of the project, project rendering, project website address, and owner or agent, the telephone number for the owner or agent, and the name and an emergency contact telephone number of the general contractor. Provide screen detail with next submittal. 2 x requested.

Response 32) ***This will be provided at the necessary time.***

Comment 33) PUBLIC ART PROGRAM: Per O-2019-025, New development and redevelopment in non-residential, mixed-use and multi-family zoning districts shall provide fee for the creation, acquisition and installation of public art in the city.

a. Pay In-Lieu Public Art Fee: Pay one-half of one percent (0.5%) of the cost of the proposed development project, as an "in-lieu" public art fee, with a minimum payment of $5,000 and a maximum payment of
$250,000; or
b. Combination of In-Lieu Public Art Fee and Placement of Art on

Site: Placement of art on the site of the development project, which shall have a minimum value of one-quarter of one percent (0.25%) of the cost of the proposed development project combined along with a one- quarter of one percent (0.25%) payment of an "in-lieu" public art fee. The owner shall provide documentation to the City that the art fee has been deposited into an escrow account for said purpose prior to the issuance of a building permit. Prior to placement on the development site, the art must be approved by the Community Services Director or designed and conform to the adopted public art guidelines.

Response 33) ***Applicant will comply with the ordinance at the appropriate time.***

~~Comment 34)~~ ~~Two parcels must submit two separate applications for site plan review.~~

Comment 35) ~~Per Section 280-40 reduce light levels on east property line not to exceed 0.5 foot candle on the east property line. Extend light measurement for entire length of east property line.~~ Sheet L4.00 shows 52 points at and beyond the east property line where light levels exceed 0.5 and where adjacent to residential property. Revise accordingly.

Response 35) ***Please see revised lighting plans.***

~~Comment 36)~~ ~~Per Section 265-140(B) no column shall be located within 3' of the entrance of a parking space. Identify where in the proposed DDG this regulation is addressed.~~

~~Comment 37)~~ ~~Reduce intensity of the project as follows:~~

- ~~eliminating tandem parking in parking garage to provide single parking space instead of double~~
- ~~Reduce drive isles in parking garage to 22'~~
- ~~Remove1 floor of retail~~
- ~~Remove 3 floors of residential~~

~~2nd time requested~~

~~Comment 38)~~ ~~Sheet List table on Cover Sheet is incomplete. Revise accordingly.~~

~~Comment 39)~~ ~~Add landscaping to recreation deck.~~

~~Comment 40)~~ ~~Provide building elevation with materials identified.~~

Comment 41) See below regarding edits to the proposed Development Design Guidelines.

- ~~Page 4, "This cross-access easement is not intended to be a designed amenity such as a continuous boardwalk or waterfront feature.~~
- ~~Page 10 – provide clearer graphics so that the dimensions can be read.~~
- ~~Page 16 – reduce the maximum density allowed.~~
- ~~Page 17 – change Minimum Dania Beach Boulevard setback to 15', same as NW 1 Street.~~
- ~~Page 17 – "The District 1 buildings will be separated by the public right of way in Dania Beach Boulevard or potential future pedestrian area and setbacks identified in Section (5) above."~~
- ~~Page 17 – reduce the maximum building height.~~
- ~~Page 19 – "The operator must possess a valid city Certificate of Use, and local business tax receipt for a valet service."~~
- ~~Page 19 – "No excessive stacking shall exist when vehicles stacked for valet drop-off or puck-up extend into any drive aisle and impede the flow of routine traffic."~~
- ~~Page 21 – SITE LIGHTING – identify maximum light spillage of 0.5 foot candle when adjacent to residentially zoned or used land.~~
- ~~Page 22 – "Charging stations may be provided for a ***percentage*** of parking spaces within the garage." Identify what this maximum percentage is.~~
- ~~Page 22 – "Pedestrian areas along Bryan Road shall include canopy trees which provide shade and aesthetic enhancements without conflicting with vehicles or pedestrian movement, awning, balconies, paving or signage."~~
- ~~Page 23 – Exhibit 9 – change minimum width from "None" to match street section shown on page 10.~~
- ~~Page 25 – CITY OF DANIA BEACH REVIEW PROCESS – delete the 4 conditions. Should follow the Major/Minor deviations as identified in Section 340-40(D).~~
- Page 17 – (9) Change to read "… a minimum of 1 foot only. The application thereof is at the discretion of the Community Development Director."
- Page 18 – Exhibit 6, Bicycle Parking; must breakdown parking required for residential and non-residential to calculate required bicycle parking for project.
- Page 18 – "Service areas shall be located outside of a public roadway and where practical, off of private drives, and…"
- Page 23 – Sign and Design Standards (2) of the DDG provides no detail regarding Building Identification Signs. Failure to identify on DDG will result in the City's LDC regulations being applied.
- Add a section to DDG to discuss noise mitigation to protect residential neighborhood to the east.
- Provide strike-thru/underline version of DDG for staff review.

Response 41) ***These have all been addressed. Additionally, Building Identification maximum percentage is already addressed in the DDGs.***

Comment 42) Per section (10) of the proposed DDG, Valet Operator must possess a valid City issued Certificate of Use and BRT for the valet service prior to operation.

Response 42) ***The DDGs have been updated to reflect this.***

Comment 43) In "Robust Parking and Mobility Demand Management Plan, the following statement is made, "Valet Parking will count with 42 staging spaces for drop-off, 9 spaces for pick-up and 7 spaces for shared-ride operations." Clarify that this is true for each building, Wave 70 and Wave 90.

Response 43) ***This is true for both buildings. The Plans already show this distinction.***

Comment 44) Sheet A-3.00, clearly identify location of property line.

Response 44) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 45) TIER 1 – North building shows a 9'4" setback from west property line on Sheet A-100; Sheet C-100 shows 21.9' setback. Revise drawings and data table accordingly.

Response 45) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 46) TIER 1 - South building shows a 12' setback from west property line on Sheet A-300; Sheet C-100 shows a 27'. Revise drawings and data table accordingly.

Response 46) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 47) TIER 1 - Sheet A-300 Shows 12'11" setback from north property line; Sheet C-100 shows a 39' setback. Revise drawings and data table accordingly.

Response 47) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 48) TIER 1 - Sheet A-300 shows 12' setback from south property line; sheet C-100 shows 26.7' – X. Revise drawings and data table accordingly.

Response 48) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 49) TIER 1 - Sheet A-300 shows 11'11" setback from east property line for north building; Sheet C-100 shows 58.3'-55' to seawall not property line. Revise drawings and data table accordingly.

Response 49) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 50) TIER 1 - Sheet A-300 shows 12' setback from east property line for

south building; Sheet C-100 shows 21.9'-27'. Revise drawings and data table accordingly.

Response 50) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 51) TIER 1 - 13 doors are shown along east building elevation onto "Pedestrian Area". Identify noise mitigation methods proposed to reduce noise traveling to neighborhood to the east.

Response 51) ***Noise mitigation information has been provided in the DDGs within the Architectural Standards section of the document.***

Comment 52) The Master Development Plan on page 9 of the DDG shows a pedestrian cross access easement. Prepare easement language for the City Attorney's Office to review before recording it in Broward County Public Record. Must be reviewed and recorded prior to issuance of a building permit.

Response 52) ***This will be provided at time of permitting.***

Comment 53) On Sheet C-100 & A-5.00 identify location of east and west property lines.

Response 53) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 54) Applicant indicates design to improve West Dania Beach Boulevard ROW as a park.

- Provide detail of proposed improvements.
- Identify how public will access the park.
- Additional parking for park may be required.
- Identify continuous pedestrian connection on east and west side of the project between the park and NW 2 Street bridge.
- Incorporate boat ramp for official public use only (not public).

Response 54)

- ***Applicant provided a conceptual plan showing the proposed park layout. A portion of the park is on right-of-way owned by Broward County and we have asked the City to begin the dialogue with the County to have that portion of the right-of-way transferred to the City so the City has permitting control over the proposed park improvements.***
- ***The proposed park may be accessed via the boardwalk between the 90 and 70 Wave projects or by the sidewalk located along Bryan Road. It is not expected to be a park that people will drive to and require parking.***
- ***This is intended to be a passive park accessed by neighborhood or guests visiting the nearby developments.***
- ***A continuous pedestrian connection is provided via the boardwalk along the canal and the sidewalk along Bryan Road.***
- ***A boat ramp is not currently planned in the drawing as the canal is able to be accessed by officials at other locations in the vicinity. That said, the applicant will consider adding a boat ramp for official use after evaluating the financial and environmental impacts of an additional boat ramp.***

Comment 55) Parking Calculations: Proposed by DDG/SP LDC Requirements
Residential – 450.5
696 Commercial – 66.66
Office – 53.33
Restaurant – approx. 750
TOTAL REQUIRED = 1,321

Response 55) ***The parking requirements are now clearly provided in the DDGs and the site plan has been updated accordingly to clear up the confusion. The relevant Code sections are now referenced within the DDGs. Warranted parking ratios are based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All parking required for this establishment is met by the required ratios within the DDGs and on the Site Plan.***

Notes:

- *Application fee pays for only 2 reviews of the project. Additional review by staff will require additional payment.*

- ***Per conversation with City. Our application fee has been calculated as consistent with email on date 6-15-2020 as well as the review process starting back at review 1 as the initial review as considered incomplete due to COVID-19. Per coordination with Corinne LaJoie on 6/15/2020, it was agreed that the site plan fees initially paid for the site plan applications was more than the amount required to separate the site plan. Any excess funds would be moved to cost recovery and returned to the developer if not needed.***

- *Continuous and on-going site inspections will be conducted by staff throughout the entire building process.*
  - ***Acknowledged.***
- *FLOOD PLAN: Finished floor elevations, per Article 220-10(C) All structures shall be constructed with a lowest FFE of at least 1 foot above the 100-year flood elevation. Identify on plans.*
  - ***Acknowledged. See previous response to comments.***
- *Prior to submittal of a building permit, please contact the Building Official (954-924- 6085 X3650 to schedule a pre-application meeting.*
  - ***Acknowledged.***
- IMPACT FEES: Impact Fees that will be required for the project are required at time of building permit issuance.
  - ***Acknowledged.***

Should you have any additional questions please do not hesitate to contact me at (772) 794- 4110.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

Jacob Lawson, P.E

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

August 10, 2020

Jacob B. Lawson, P.E. Associate/Project Manager
Kimley Horn
445 24th Street Suite 200
Vero Beach, FL 32960

RE: Water, Sewer, and Reclaimed Water Capacity Inquiry 90 Wave project

Dear Mr. Lawson;

Per your request, we have evaluated water and sewer services for the 90 Wave project. Water and sewer demands are indicated to be 122,880 GPD (gallon per day) for each building.

Our review determined that the city currently has the capacity to provide water and sewer services for the development mentioned above. **The city will reserve 122,880 GPD for this development upon the payment of the impact fees.** This determination has been made based on the following:

- The city's water treatment plant capacity is 5.04 MGD, while demands average is 2.3 MGD
- Raw Water supplies are 2.58 MGD at present, with demands of 2.3 MGD
- High service pumping capacity is 12.5 MGD
- A 12-inch water main is adjacent to this development. The developer must perform a fire hydrant test and provide the results to the city to verify sufficient capacity in this main. The developer will be responsible for looping if needed.
- Wastewater service is available via force main adjacent to this development. The city has adequate capacity in the Hollywood treatment plant for processing the wastewater.
- You have proposed an onsite lift station instead of connecting a gravity main across Bryan Road. Since the lift station will only serve this development, the developer must retain the ownership and maintenance responsibilities for the lift station.
- Please evaluate the 4-inch sewer force main as this may be limiting. You will also need to model the force main system to ensure your system can pump into the force main without impacting other customers. If your project affects other customers, you will be responsible for pump upgrades for lift station 8.
- Reclaimed water is not available in the city.
- You will need an appropriately sized meter (upon which the impact fees are based on commercial units), as verified by plumbing calculations.

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

DANIA BEACH
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WATER METER SIZE	METER TYPE	MAXIMUM FIXTURE UNITS	PEAK MAXIMUM VOLUME-AWWA
5/8-3/4	Displacement	25	20 GPM
1	Displacement	45	50
1.5	Displacement	100	100
2	Compound	225	160
3	Compound	500	320
4	Compound	750	500
6	Compound		1000
8	Compound		1600
10	Turbine		2900
12	Turbine		4300

NOTE: No irrigation demands were submitted as a part of the request. The city is no longer issuing irrigation meters due to limitations on raw water supplies. Irrigation demands need to be met with customer-provided irrigation wells, or Florida friendly plants that require no irrigation.

If needed, cost-recovery for city procured engineering review services will be charged for review, inspection, and other required items to provide utilities and engineering related services.

Should you have any questions, please feel free to contact me.

Sincerely,

D.A.Ozaydin

Dincer Ozaydin, Deputy Public Services Director/City Engineer

CC: Fernando Rodriguez, Public Services Director
Eleanor Norena, Community Development Director
Corrine LaJoie, Assistant Community Development Director
Darren Greene, Utility Manager

AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport
2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

September 1, 2020

Eleanor Norena, Community Development Director
City of Dania Beach
100 West Dania Beach Blvd
Dania Beach, FL 33004

RE: 90 Wave
50 S Bryan Rd, 70 S Bryan Rd, and 90 N Bryan Rd, Dania Beach, FL
Broward County Aviation Department (BCAD) Conditional Approval Letter

Dear Ms. Norena:

The Broward County Aviation Department (BCAD) has reviewed the proposed 90 Wave site plan located south of Fort Lauderdale-Hollywood International Airport (FLL) at 50 S Bryan Road, 70 S Bryan Road, and 90 N Bryan Road. Since the proposed project is within 20,000 feet of FLL, its development and operation is subject to Federal Aviation Regulation (FAR) Part 77, Florida Statutes Chapter 333 and/or the Broward County Airport Zoning Ordinance. These standards seek to ensure that any proposed construction, use of high lift equipment, such as cranes, or other potential hazards will not negatively impact the safe and efficient use of the airport and surrounding airspace. Taking into consideration the proximity of this project to FLL, BCAD is providing the following comments regarding the proposed development:

- Based on the location of the proposed project, FAR Part 77- Subpart B and Section 5-182(n)(2) of the Broward County Land Development Code, require the applicant to obtain a "Determination of No Hazard to Air Navigation" from the Federal Aviation Administration (FAA). ***The receipt of a favorable determination from the FAA is required for all critical building points and temporary construction cranes and must be received prior to any construction activity.*** The Federal Review (FAA 7460-1) process can be initiated at the following web address: https://oeaaa.faa.gov/oeaaa/external/portal.jsp

- **BCAD has determined that the proposed development penetrates FAA controlled air space (Part 77, Horizontal Plane) and shall comply with FAA obstruction standards.**

- No building, structure or vegetation on the site may exceed the ***maximum height of 225 feet (AMSL)*** as shown on Elevation Sheets A-4.00, A-4.01, A-4.02, and A-4.03 (dated 8/15/2020) and the 90 Wave Coordinates Exh-1 (dated 8/15/2020) unless submitted to BCAD for additional review.

- The proposed development must not generate light, glare, smoke or other emissions that could be disorienting to pilots operating in the vicinity of the airfield.

Adherence to these conditions is required for BCAD approval of the 90 Wave site plan located at 50 S Bryan Road, 70 S Bryan Road, and 90 N Bryan Road and it is based on the following documents submitted by the applicant:

- Elevations Sheets A-4.00, A-4.01, A-4.02, and A-4.03 prepared by Nichols, Brosch, Wurst, Wolfe & Associates, Inc. (dated 8/15/2020)
- Site Plan sheet C-100 prepared by Kimley-Horn and Associates, Inc (dated 7/2/2020)
- 90 Wave Coordinates Exh-1 prepared by Nichols, Brosch, Wurst, Wolfe & Associates, Inc. (dated 8/15/2020)
- ALTA Survey 90 N. Bryan Road prepared by Gary B. Castel (dated 12/31/2019)

If the proposed plans are revised substantially from those submitted for this review, BCAD requests that the revised development plans be submitted for an additional review.

This letter serves as notice of potential aircraft overflight and noise impacts on this property due to its proximity to the Fort Lauderdale/Hollywood International Airport. This property is subject to the overflight and associated noise of arriving and departing aircraft during the course of normal airport operations. Individuals sensitive to such events should satisfy themselves before purchasing this property that such exposure to aircraft overflights and the noise associated therewith will not adversely affect their enjoyment of the property.

This letter serves as notice to prospective purchasers of parcels within the property that, pursuant to Broward County Ordinance 2006-37 and consistent with the Federal Aviation Administration's "Change in FAA's Noise Mitigation Policy," effective October 1, 1998, the County will only provide noise mitigation for existing "incompatible development" and not for new incompatible development. The determination of "compatible" and "incompatible development" will be based on the County's most current Federal Aviation Administration ("FAA") approved Noise Exposure Map and the Airport's most current noise compatibility program which has been reviewed and approved by the FAA for the Airport. The applicant should note that the project is not eligible for federal funding to mitigate aircraft noise.

Please do not hesitate to contact me if you have questions or require additional information at 954.595.0809

Sincerely,

Karen Friedman
BCAD Aviation Senior Planner

cc: Michael P. Pacitto, P.G., Director Planning and Environmental
William Castillo, BCAD Aviation Planning Manager
Jacob.Lawson@kimley-horn.com, NChakas@lochrielaw.com, flylally@aol.com, pbusteed@nbww.com

The School Board of Broward County, Florida

PRELIMINARY SCHOOL CAPACITY AVAILABILITY DETERMINATION

SITE PLAN

SBBC-2924-2020

County Number: Municipality Number: SP-056-20

90 WAVE

August 19, 2020

Growth Management
Facility Planning and Real Estate Department
600 SE 3rd Avenue, 8th Floor
Fort Lauderdale, Florida 33301
Tel: (754) 321-2177 Fax: (754) 321-2179
www.browardschools.com

PRELIMINARY SCHOOL CAPACITY AVAILABILITY DETERMINATION
SITE PLAN

PROJECT INFORMATION	NUMBER & TYPE OF PROPOSED UNITS		OTHER PROPOSED USES	STUDENT IMPACT	
Date: August 19, 2020	Single-Family:			Elementary:	4
Name: 90 WAVE	Townhouse:				
SBBC Project Number: SBBC-2924-2020	Garden Apartments:			Middle:	2
County Project Number:	Mid-Rise:				
Municipality Project Number: SP-056-20	High-Rise:	380		High:	2
Owner/Developer: Dania Beach Marina Corp.	Mobile Home:				
Jurisdiction: Dania Beach	Total:	380		Total:	8

SHORT RANGE - 5-YEAR IMPACT

Currently Assigned Schools	Gross Capacity	LOS * Capacity	Benchmark** Enrollment	Over/Under LOS	Classroom Equivalent Needed to Meet LOS	% of LOS*** Capacity	Cumulative Reserved Seats
Collins	371	408	346	-62	-2	89.2%	18
Olsen	1,125	1,238	657	-581	-26	54.0%	11
Hollywood Hills	2,667	2,667	1,967	-471	-30	73.9%	5

Currently Assigned Schools	Adjusted Benchmark	Over/Under LOS-Adj. Benchmark Enrollment	% LOS Cap. Adj. Benchmark	Projected Enrollment				
				20/21	21/22	22/23	23/24	24/25
Collins	364	-44	89.2%	321	323	330	338	345
Olsen	668	-570	54%	667	678	682	691	689
Hollywood Hills	1,972	-695	73.9%	1,935	1,923	1,912	1,900	1,889

Students generated are based on the student generation rates contained in the currently adopted Broward County Land Development Code. Information contained herein is current as of the date of review.
A traditional cohort survival methodology is used to project school-by-school District traditional school enrollment out over the next five years, and a proportional share of charter school enrollment is used to project future charter school enrollment by school level Districtwide. For more information: http://www.broward.k12.fl.us/dsa/EnrollmentProj.shtml. The annual benchmark enrollment is taken on the Monday following Labor Day and is used to apply individual charter school enrollment impacts against school facility review processes.

*This number represents the higher of: 100% gross capacity or 110% permanent capacity. **The first Monday following Labor Day. ***Greater than 100% exceeds the adopted Level of Service (LOS).

CHARTER SCHOOL INFORMATION

Charter Schools within 2-mile radius	2019-20 Contract Permanent Capacity	2019-20 Benchmark Enrollment	Over/(Under)	Projected Enrollment		
				20/21	21/22	22/23
Avant Garde Academy	750	884	134	**884**	**884**	**884**
Avant Garde K-8 Broward	1.050	1.014	-36	**1.014**	**1.014**	**1.014**

PLANNED AND FUNDED CAPACITY ADDITIONS IN THE ADOPTED DISTRICT EDUCATIONAL FACILITIES PLAN

School(s)	Description of Improvements
Collins	There are no scheduled classroom additions in the Adopted DEFP that would increase the reflected FISH capacity of the school.
Olsen	There are no capacity additions scheduled in the ADEFP that will increase the reflected FISH capacity of the school.
Hollywood Hills	There are no scheduled classroom additions in the Adopted DEFP that would increase the reflected FISH capacity of the school.

Students generated are based on the student generation rates contained in the currently adopted Broward County Land Development Code. Information contained herein is current as of the date of review.
A traditional cohort survival methodology is used to project school-by-school District traditional school enrollment out over the next five years, and a proportional share of charter school enrollment is used to project future charter school enrollment by school level Districtwide. For more information: http://www.broward.k12.fl.us/dsa/EnrollmentProj.shtml. The benchmark enrollment count taken on the first Monday following Labor Day is used to apply individual charter school enrollment impacts against school facility review processes.

Comments

This site plan application proposes 380 high-rise units, which are anticipated to generate 8 (4 elementary, 2 middle and 2 high school) students. This project falls within the boundary of Land Use Plan Amendment (LUPA) LUPA PCT 09-5 for a Regional Activity Center (RAC) land use designation, which is subject to a Tri-Party Agreement between the City of Dania Beach, the School Board and the County. The City processed the LUPA, which encompassed a previous LAC and established a Regional Activity Center (RAC) land use designation; however, per the recorded Tri-Party Agreement, all residential units located within the original LAC boundary are bound by the Recorded Educational Mitigation Agreement and the requirements contained therein, including the payment of the student station costs. This project is outside the original LAC boundary and is therefore subject to public school concurrency requirements and payment of school impact fees.

Please be advised that this application was reviewed utilizing 2019/20 school year data because the current school year (2020/21) data will not be available until updates are made utilizing the Benchmark Day Enrollment Count. The school Concurrency Service Areas (CSA) serving the project site in the 2019/20 school year include Collins Elementary, Olsen Middle, and Hollywood Hills High Schools. Based on the Public School Concurrency Planning Document (PSCPD), all three schools are currently operating below the Level of Service Standard (LOS), which is established as the higher of: 100% gross capacity or 110% permanent capacity. Incorporating the cumulative students anticipated from this project and approved and vested developments anticipated to be built within the next three years (2019/20- 2021/22), these schools are expected to maintain their current status through the 2021/22 school year. Additionally, the school capacity or Florida Inventory of School Houses (FISH) for the impacted schools reflects compliance with the class size constitutional amendment.

In the 2019/20 school year, the charter schools located within a two-mile radius of the site and their associated data are depicted above. Students returning, attending or anticipated to attend charter schools are factored into the five-year student enrollment projections for District schools. Enrollment projections are adjusted for all elementary, middle and high schools impacted by a charter school until the charter school reaches full enrollment status.

To ensure maximum utilization of the impacted CSAs, the Board may utilize other options such as school boundary changes to accommodate students generated from developments in the County.

Capital Improvements scheduled in the currently Adopted District Educational Facilities Plan (DEFP), Fiscal Years 2019/20 to 2023/24 regarding pertinent impacted schools are depicted above.

Therefore, this application is determined to satisfy public school concurrency on the basis that adequate school capacity is anticipated to be available to support the residential development as currently proposed by the applicant. This preliminary determination shall be valid for 180 days for a maximum of 380 high-rise units and conditioned upon final approval by the applicable governmental body. As such, this preliminary determination will expire on February 14, 2021. This preliminary school concurrency determination shall be deemed to be void unless prior to the referenced expiration of the Preliminary School Capacity Availability Determination (SCAD), notification of final approval to the District has been provided and/or an extension of this Preliminary SCAD has been requested in writing and granted by the School District. Upon the District's receipt of sufficient evidence of final approval which shall specify at the minimum the number, type and bedroom mix for the approved residential units, the District will issue and provide a final SCAD letter for the approved units, which shall ratify and commence the vesting period for the approved residential project.

Please be advised that if a change is proposed to the development, which increases the number of students generated by the project, the additional students will not be considered vested for public school concurrency.

SBBC-2924-2020 Meets Public School Concurrency Requirements ☒ Yes ☐ No

Reviewed By:

8/19/2020

Date

Lisa Wight

Signature

Lisa Wight

Name

Planner

Title

90 WAVE
SP-056-20
90 N. Bryan Rd.

BROWARD COUNTY
Planning Council

August 26, 2020

Nectaria M. Chakas, Esquire
Lochrie & Chakas, P.A.
1401 East Broward Boulevard, Suite 303
Fort Lauderdale, Florida 33301

Dear Ms. Chakas:

Re: Platting requirements for a parcel legally described as Parcel A, "Bryan Road Warehouses," according to the Plat thereof, as recorded in Plat Book 170, Page 112, of the Public Records of Broward County, Florida; together with an uplatted 40 foot strip of land lying adjacent to and contiguous with the easterly boundary of said Parcel A. This parcel is generally located on the southeast corner of Bryan Road and Northwest 1 Street, in the City of Dania Beach.

This letter is in response to your correspondence regarding the Broward County Land Use Plan's platting requirements for a proposed mixed-use development on the above referenced parcel.

Regarding the portion of the proposed development located within "Bryan Road Warehouses," Planning Council staff has determined that replatting **would not be required** by Policy 2.13.1 of the Broward County Land Use Plan. Policy 2.13.1 does not require replatting of parcels included in plats approved by the Broward County Commission and recorded after June 4, 1953. Information from the Broward County Records, Taxes and Treasury Division indicates that the above referenced plat was recorded on October 18, 2001.

Planning Council staff notes that when a parcel that has been platted subsequent to June 4, 1953 (i.e. Parcel A, "Bryan Road Warehouses") is combined with unplatted lands (i.e. an uplatted 40 foot strip of land lying adjacent to and contiguous with the easterly boundary of said Parcel A), Policy 2.13.1 of the Broward County Land Use Plan **would not require platting** of the unplatted portion if the post-1953 portion of the parcel constitutes the majority of the enlarged parcel and the development parcel is less than 10 acres; in this case, the post-1953 portion constitutes a majority of the enlarged parcel and the development parcel is less than 10 acres total (3.53 acres).

It is recommended that you contact Broward County's Planning and Development Management Division at 954-357-6666, to inquire about whether additional County review, such as a plat note modification, may be required. Further, some jurisdictions may be more restrictive and require platting in more situations than the Broward County Land Use Plan. The City of Dania Beach's platting requirements should be investigated.

The contents of this letter are not a judgment as to whether this development proposal complies with the Broward County Trafficways Plan, permitted uses and densities, local zoning, the land development regulations of the municipality or the development review requirements of the Broward County Land Use Plan, including concurrency requirements.

If you have any additional questions regarding the Broward County Land Use Plan's platting requirements, please contact Christina Evans, Planner, at your convenience.

Respectfully,

Barbara Blake Boy
Executive Director

BBB:CME

cc: Ana M. Garcia, ICMA-CM, City Manager
City of Dania Beach

Eleanor Norena, Director, Community Development Department
City of Dania Beach

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CHOICE WASTE OF FLORIDA, INC.

A PREMIER COMPANY

9/2/2020

Attn: Jacob B. Lawson
c/o Kimley-Horn
445 24th Street-Suite 200
Vero Beach, Fl 32960

Re: 70 Wave -70 N. Bryan Road-Dania Beach, Fl and 90 Wave – 90 N. Bryan Road-Dania Beach, Fl

Hello Jacob,

We have reviewed the documentation provided by the applicant for both 70 Wave located at 70 N. Bryan Road-Dania Beach, Fl and 90 Wave located at 90 N. Bryan Road-Dania Beach, Fl and will confirm that based on the information provided can provide the full necessary services for the waste and recycle containers and services located at the above referenced locations once the facilities are completed and operational. Please feel free to contact me on my cell if needed at 954-448-8109 or at the office of 954-674-6074.

Respectfully Yours,

Gary F. Brugman
Executive Sales Manager

2805 EAST OAKLAND PARK BOULEVARD, SUITE #464
FORT LAUDERDALE, FLORIDA 33306
954.674.6074 | OFFICE@PWSFL.COM

Robust Parking & mobility demand management plan

The project consists of two parking decks with a total capacity for 699 vehicles located on the third and fourth levels. Although, self-parking spaces are provided, parking valet use will be strongly encouraged. Only 100 spaces (7% of the garage capacity) has been designated as "self-parking". Valet Parking operations are adopted with the objective of doing a more efficient use of the space, as well as, more effective operations timewise.

ADA spaces are provided for Accessible Vans and vehicles that have been modified to special needs and can only be operated by their owners.

Valet Operations: Drop-off and Pick up takes place on the third floor (First Parking Level). Customers are encouraged to drive into the building, up to the third floor, away from public roads, in a controlled environment. Once inside the building, the customer will find parking staging spaces exclusively for Valet drop-off and retrieval operations. This strategy allows for an organized way of handling large quantity of simultaneous events. Once parked the customer will hand the key to the operator and leave the garage. Valet operators will move the vehicles from the staging area to the valet parking spaces.

For retrieval of a vehicle, customer will be able to call in advance, in order to have his/her car ready upon arrival to the valet station, otherwise, will have to wait until operators retrieve the vehicle after station arrival, which, should not take more than 5 minutes in average operational conditions.

Valet Parking will count with 42 staging spaces for drop-off ,9 spaces for pick-up, and 7 spaces for shared-ride operations.

The project supports and encourages Shared mobility and is designed in a way that different systems can happen simultaneously. Self-Parking will be limited and clearly signalized to the east side of the garage. An Internal loop will circulate counterclockwise to allow pedestrians to walk safely to and from their vehicles when using Valet Parking. The same loop will be used by shared riders and service providers, taking all parking/riding activities away from the public realm in a safe and controlled environment.

Parking ratios are based on the purpose and intent of alternate parking standards described in Sec. 265-60 and the intent of the parking reductions for mixed use developments methodology described in Sec. 265-90 of the Dania Beach Land Development Code. Warranted parking ratios are also based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All required parking for this establishment is met by the required ratios listed herein.

The development intends to implement and contribute to the Dania Beach Regional Activity Center purpose of "creating a compact work, live, shop and leisure environment that reduces transportation needs by combing uses and providing an attractive destination for tourists and local citizens", which is reflected in the parking ratios provided within the Development Design Guidelines (DDGs). The development is supportive of and promotes a "car-free" or "car-optional" lifestyle through a mixture of proximity to uses that fulfill daily needs (i.e. grocery, fitness, pharmacy, employment), increased supply of bicycle parking spaces, access to transit and ridesharing services, and a robust parking & mobility demand management plan. Through the management of parking, the development will provide the following off-street parking ratios:

Solid Waste Sanitation Management Plan

Solid Waste will be handled through a centralized system consisting of a gravity Chute with sorting capabilities to promote recycling. All Waste will be collected, sorted and compacted in a centralized, climate controlled, room into containers to be picked up by the waste management company hired for collection.

Restaurants, Retail, and Work/Live units will collect waste in designated smaller rooms using 1 cubic yard tilt carts that will be manually pushed throughout the building. Staff will collect the general waste from the point of origin in the 1 cubic yard tilt cart and once full they will take it to the Main Trash Room and deposit the waste into the trash compactor using a stationary cart tipper, specifically designed for the 1 cubic yard tilt carts. It is important to note that the swing height of the tipper operation can reach up to 15 feet, depending on the manufacturer. The applicant is providing a tipping height of 26 feet.

Lawson, Jacob

From: Xavier Falconi <xfalconi@cgasolutions.com>
Sent: Monday, August 31, 2020 3:29 PM
To: Heggen, Chris; Lajoie, Corinne
Cc: Brooks, Nick; Lawson, Jacob; Lajoie, Corinne
Subject: RE: 70 Wave & 90 Wave Traffic Analysis, Dania Beach

Categories: External

Good afternoon Corinne,
Following up to this request for review and after discussing the updated traffic study with Chris, I recommend this application to move forward based on the following conditions:

- Page 15 of the study includes mitigation of the signal timing at the intersection of Bryan Road and Stirling Road. The future total condition with signal optimization brings the intersection LOS from an F to a D in the pm peak hour. As a condition of approval, we'd recommend the applicant to coordinate with Broward County the optimization of this signal. It may have to wait for the appropriate time for the traffic conditions to develop in order for Broward County to proceed with the signal optimization as suggested.
- According to page 28 of the updated traffic study, the applicant will construct right turn deceleration lanes at the two proposed site driveways. The study also indicates that the exact parameters related to these lanes will be determined during the platting process. We recommend having a condition of approval indicating that right turn deceleration lanes will be provided at the two driveways for the 70 Wave and 90 Wave sites, subject to Broward County's conditions of approval process.
- Table 8 of page 21 of the study points to future deficiencies in the year 2024 for the intersection of Bryan Road and Old Griffin Road. Since this intersection is not currently signalized but will be at a future date, we'd recommend including a condition of approval indicating that the capacity of the storage lanes and geometry of this intersection will be reviewed and approved by Broward County as part of the traffic signal approval process.

Thank you.

Xavier R. Falconi, PE
Director | Traffic Engineering Department

Calvin, Giordano & Associates, Inc. | 1800 Eller Drive | Suite 600 | Fort Lauderdale, FL 33316
Office: 954.921.7781 | Direct: 954.766.2735 | Fax: 954.921.8807
Fort Lauderdale | Miami-Dade | West Palm Beach | Clearwater/Tampa | Estero | Port St. Lucie

From: Heggen, Chris <Chris.Heggen@kimley-horn.com>
Sent: Thursday, August 27, 2020 5:01 PM
To: Xavier Falconi <xfalconi@cgasolutions.com>
Cc: Brooks, Nick <Nick.Brooks@kimley-horn.com>; Lawson, Jacob <Jacob.Lawson@kimley-horn.com>; Lajoie, Corinne <clajoie@daniabeachfl.gov>
Subject: RE: 70 Wave & 90 Wave Traffic Analysis, Dania Beach

Mimecast Attachment Protection has deemed this file to be safe, but always exercise caution when opening files.

Xavier-

Good afternoon. As discussed, attached please find our updated traffic analysis and response to comments for this project. Please let us know if you have any further comments. Thanks!

-Chris

Christopher W. Heggen, P.E. (FL)
Kimley-Horn | 1920 Wekiva Way, Suite 200, West Palm Beach, FL 33411
Direct: 561 840 0248 | Mobile: 561 707 6438

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TRAFFIC IMPACT ANALYSIS

DANIA BEACH MARINA REDEVELOPMENT: 70 WAVE AND 90 WAVE

DANIA BEACH, FL

PREPARED FOR:

DANIA BEACH MARINA CORPORATION

Kimley»Horn

February 27, 2020
Revised June 26, 2020
Revised July 29, 2020
Revised August 27, 2020
Kimley-Horn Project #147706000
CA 00000696
Kimley-Horn and Associates, Inc.
1920 Wekiva Way
West Palm Beach, Florida 33411
561/845-0665 TEL

TRAFFIC IMPACT ANALYSIS

DANIA BEACH MARINA REDEVELOPMENT: 70 WAVE AND 90 WAVE

DANIA BEACH, FL

Prepared by:
Kimley-Horn and Associates, Inc.
West Palm Beach, Florida

Kimley»Horn

February 27, 2020
Revised June 26, 2020
Revised July 29, 2020
Revised August 27, 2020
Kimley-Horn Project #147706000
CA 00000696
Kimley-Horn and Associates, Inc.
1920 Wekiva Way
West Palm Beach, Florida 33411
561/845-0665 TEL

CHRISTOPHER W. HEGGEN LICENSE No. 58636 STATE OF FLORIDA PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Christopher W. Heggen, P.E. using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on electronic copies.

Christopher W Heggen
2020.08.27
16:58:02 -04'00'

Christopher W. Heggen, P.E.
Florida Registration Number 58636

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Kimley»Horn

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EXECUTIVE SUMMARY

Kimley-Horn and Associates, Inc. has completed the following traffic evaluation for the proposed developmental changes to be made at the site located on the east side of Bryan Road, between Stirling Road and Old Griffin Road in Dania Beach, Florida. The site currently consists of a variety of maritime uses including a marina and recreational vehicle sales centers. Proposed redevelopment includes converting these existing maritime sites into 760 multifamily high-rise apartments, 16,000 square feet of general office, 50,000 square feet of restaurant space, and 20,000 square feet of general commercial use.

This document includes the analysis conducted to determine the impacts of redevelopment on the surrounding roadway network. Data collection was conducted on Thursday, September 12, 2019. Turning movement counts (TMCs) were collected at three major intersections directly impacted by the proposed project, listed as follows:

- Stirling Road & Bryan Road
- NW 1st Street & Bryan Road
- Old Griffin Road & Bryan Road

A capacity analysis of Bryan Road was also conducted to determine the roadways level of service based on future demand. A link capacity analysis has also been conducted to evaluate the roadway capacity based on demand of the surrounding network.

As identified in the analysis, the applicant will dedicate additional right-of-way along the site frontage that could accommodate any future widening of Bryan Road if that were to occur in the future. Additionally, the applicant will be constructing right turn deceleration lanes at the site driveways to add capacity for vehicles turning into and out of the proposed buildings on site.

INTRODUCTION

The proposed plan of development will include two (2) high-rise buildings with the lower floors of each consisting of commercial, restaurant, office uses, and parking and the remaining floors being occupied by multifamily housing. The total proposed development on both sites will be 760 dwelling units, and 16,000 SF of general office, 50,000 SF of restaurant space, and 20,000 SF of general commercial use. The site is located between NW 1st Street and Stirling Road on the east side of Bryan Road in Dania Beach, Florida. Figure 1 illustrates the location of the project site and the surrounding Trafficways facilities. The folio numbers for the project site are listed below:

- 504233000600
- 504233320010

Kimley-Horn and Associates, Inc. was retained to prepare a traffic impact analysis to evaluate the impacts resulting from buildout of this site by 2024. This document presents the methodology used and the findings of the traffic impact analysis. The analysis was conducted in accordance with the requirements of the City of Dania Beach, Florida. Figure 1 illustrates the location of the site.

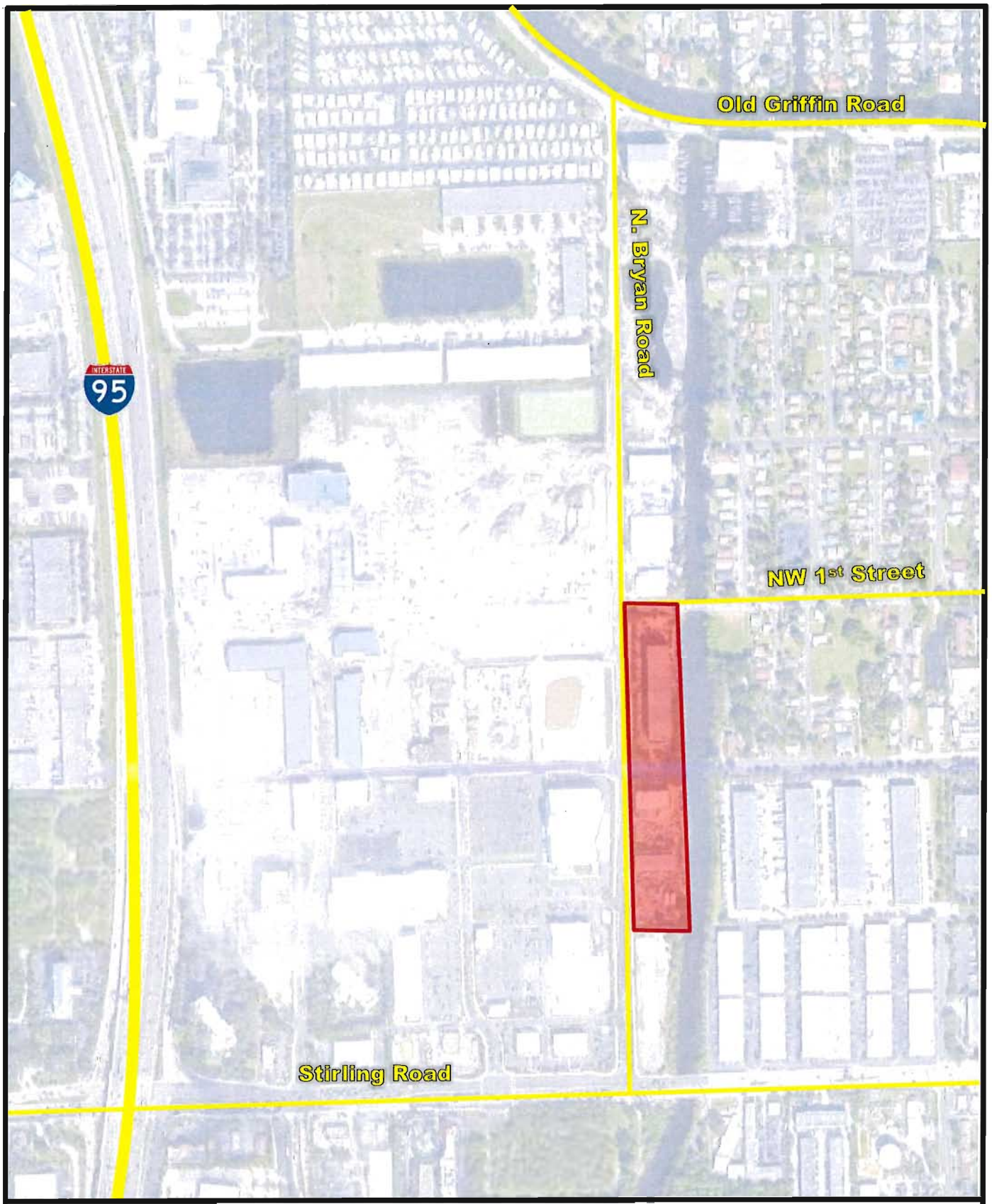
A site plan is included in *Appendix A*.

DATA COLLECTION

Baseline traffic count data was collected during the AM peak period (7:00 AM to 9:00 AM) and the PM peak period (4:00 PM to 6:00 PM) on Thursday, September 12, 2019 at intersections within the study area. Following is a list of the intersections at which data was collected:

1. Bryan Road & Stirling Road
2. Bryan Road & NW 1st Street
3. Bryan Road & Old Griffin Road

Turning movement volume data is included in *Appendix B*.



NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

FIGURE 1

SITE LOCATION AND TRAFFICWAYS IDENTIFICATION

DANIA MARINA

144706000

Kimley»Horn

TRIP GENERATION DETERMINATION

A trip generation determination was prepared to determine the potential impacts of the proposed development. Rates and equations published by the Institute of Transportation Engineers (ITE) in the *Trip Generation Manual, 10th Edition*, were used to determine the trips generated by the proposed land use. The rates for Multifamily High-Rise [ITE 222], Marina [ITE 420], General Office [ITE 710], Shopping Center [ITE 820], Recreational Vehicle Sales [ITE 842], and Quality Restaurant [ITE 931], High Turnover Sit-Down Restaurant [ITE 932] were used for the daily, AM peak hour and PM peak hour trip generation calculations. It was determined appropriate to use the ITE rate for Multifamily High-Rise because the buildings are proposed to be 16 stories, and the rate for ITE 222 correlates with similar uses of buildings greater than 10 stories. Table 1 shows the trip generation calculations for the redevelopment, with credit taken for the existing uses currently in operation on the site.

Table 1: Trip Generation Calculations

Land Use	Intensity		Daily Trips	AM Peak Hour			PM Peak Hour		
				Total	In	Out	Total	In	Out
Existing Scenario									
Marina	150	Berths	362	11	4	7	32	19	13
Recreational Vehicle Sales	24.8	KSF	124	11	9	2	19	6	13
		Subtotal	*486*	*22*	*13*	*9*	*51*	*25*	*26*
Driveway Volumes			**486**	**22**	**13**	**9**	**51**	**25**	**26**
Net New External Trips			**486**	**22**	**13**	**9**	**51**	**25**	**26**
Proposed Scenario									
Multifamily High-Rise	760	DU	3,206	226	54	172	267	163	104
General Commercial	20.0	KSF	755	19	12	7	76	36	40
General Office (>5,000 SF)	16	KSF	156	19	10	9	18	12	6
Quality Restaurant	25	KSF	2,096	18	9	9	195	131	64
High Turnover Sit-Down Restaurant	25	KSF	2,805	249	137	112	244	151	93
		Subtotal	*9,018*	*531*	*222*	*309*	*800*	*493*	*307*
Internal Capture									
Multifamily High-Rise			454	5	1	4	48	22	26
General Commercial			405	8	6	2	46	23	23
General Office (>5,000 SF)			272	6	1	5	8	7	1
Quality Restaurant			315	4	3	1	31	15	16
High Turnover Sit-Down Restaurant			314	3	2	1	31	15	16
		Subtotal	*1,760*	*26*	*13*	*13*	*164*	*82*	*82*
Pass-By Capture									
Multifamily High-Rise	0.0%		0	0	0	0	0	0	0
General Commercial	34.0%		119	4	2	2	10	4	6
General Office (>5,000 SF)	0.0%		0	0	0	0	0	0	0
Quality Restaurant	44.0%		784	6	3	3	72	51	21
High Turnover Sit-Down Restaurant	43.0%		1,071	106	58	48	92	58	34
		Subtotal	*1,974*	*116*	*63*	*53*	*174*	*113*	*61*
Driveway Volumes			**7,258**	**505**	**209**	**296**	**636**	**411**	**225**
Net New External Trips			**5,284**	**389**	**146**	**243**	**462**	**298**	**164**
Proposed Net External Trips - Existing Net External Trips			**4,798**	**367**	**133**	**234**	**411**	**273**	**138**

Land Use	Daily	AM Peak Hour	PM Peak Hour	Pass By
Marina [ITE 420]	2.41 trips/berth	.07 trips/berth (33% in, 67% out)	.21 trips/berth (60% in, 40% out)	0.0%
Recreational Vehicle Sale [ITE 842]	5.00 trips/1,000 sf	.46 trips/1,000 sf (85% in, 15% out)	.77 trips/1,000 sf (31% in, 69% out)	0.0%
Multifamily High-Rise ITE 222]	T=3.94(X)+211.81 trips/DU	T=0.28(X)+12.86 (24% in, 76% out)	T=0.34(X)+8.56 (61% in, 39% out)	0.0%
Shopping Center [ITE 820]	37.75 trips/1,000 sf	.94 trips/1,000 sf (62% in, 38% out)	3.81 trips/1,000 sf (48% in, 52% out)	34.0%
General Office [ITE 710]	9.74 trips/1,000 sf	1.16 trips/1,000 sf (86% in, 14% out)	1.15 trips/1,000 sf (16% in, 84% out)	0.0%
Quality Restaurant [ITE 931]	83.84 trips/1,000 sf	0.73 trips/1,000 sf (50% in, 50% out)	7.8 trips/1,000 sf (67% in, 33% out)	44.0%
High Turnover Sit-Down Restaurant	112.18 trips/1,000 sf	9.94 trips/1,000 sf (55% in, 45% out)	9.77 trips/1,000 sf (62% in, 38% out)	43.0%

As shown in Table 1 the proposed redevelopment will generate 4,798 net new external daily trips, 367 net new external AM peak hour trips (+133 in, +234 out), and 411 net new external PM peak hour trips (+273 in, +138 out). Figure 1 shows the existing site geometry as well as identifying surrounding trafficways evaluated in this analysis.

Internal capture matrices used to calculate internal capture are included in *Appendix C*.

ROADWAY NETWORK DISTRIBUTION

Trips generated by the proposed development were distributed along the existing road network to determine potential impacts of the project on the existing infrastructure. The addition of northbound right turn lanes at the driveways for the north and south buildings are proposed in conjunction with development of this site. Traffic distribution is the pairing of trip ends from the subject site with other complimentary land uses in the area. These trips were assigned to the surrounding roadways based upon a review of the roadway network and its travel time characteristics as seen in Figure 2.

Distributed project traffic was then evaluated at each of the three (3) intersections based on the possible movements available, as seen in Figure 3. Three scenarios were analyzed for each of the intersections:

- Existing Year (2019)
- Background Year (2024)
- Future Total (2024)

A buildout year of 2024 was assumed for the proposed development. To develop background traffic volumes, existing traffic volumes were grown over a 5-year period using a compounding yearly growth rate to determine volumes expected in 2024. The yearly growth rate was determined based on population growth and includes potential other future development. Projects in the area currently in progress account for committed development and are included in the analysis for Background (2024) traffic. The two major projects in the area that were included in this background growth determination are:

- Dania Pointe (remaining unbuilt portion of development)
- 150 South Bryan Road

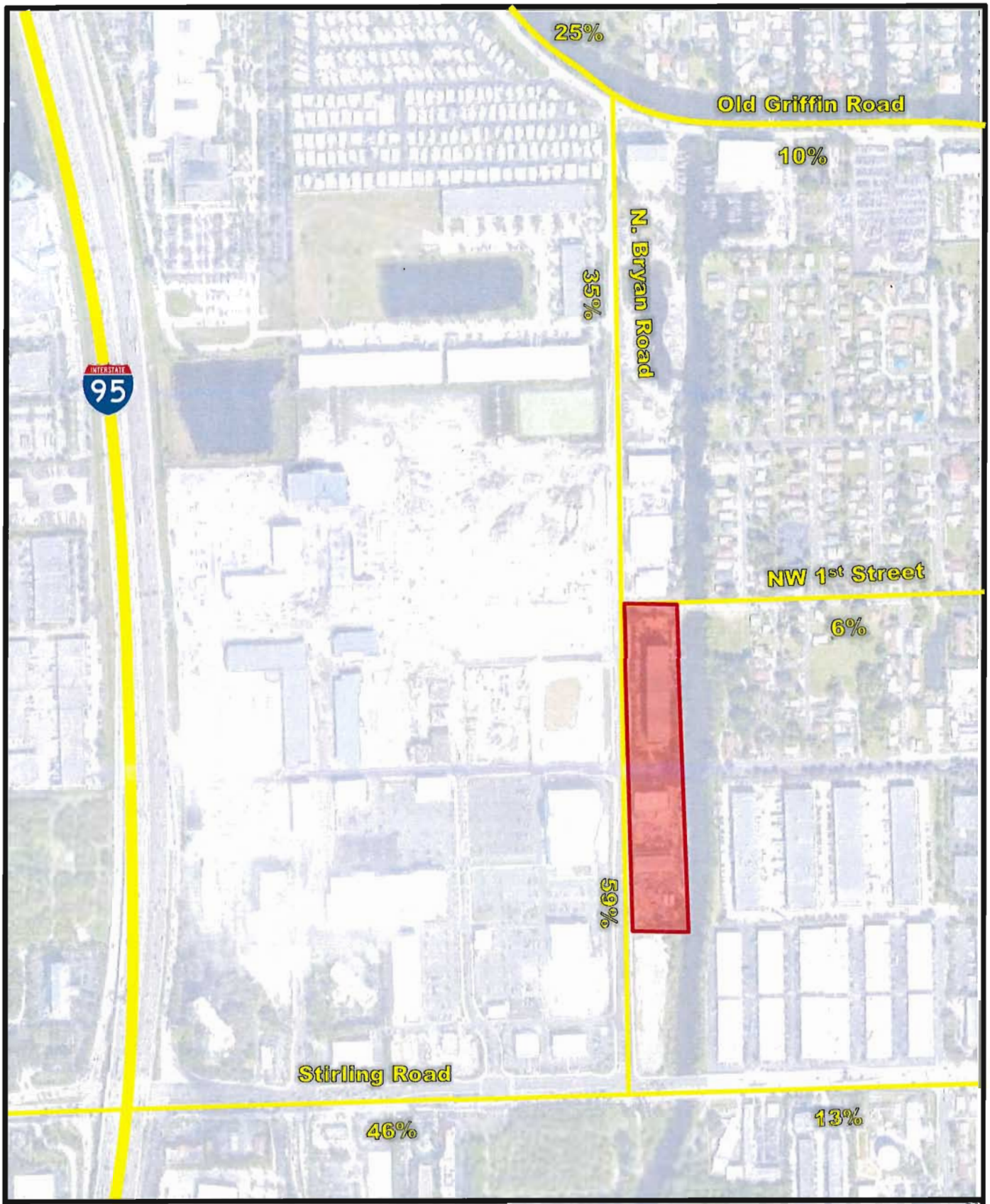
Information contained in the Traffic Impact Analyses for each project was utilized to determine future traffic being added to the surrounding roadway network, and credit was taken for the portion of Dania Pointe that is currently in operation. Relevant excerpts from these studies are included in Appendix B. Traffic generated by the remaining proposed/approved development (not yet in operation) was assumed to be on the roadway at the time of project buildout (2024). Future project totals were calculated by adding the net change in site traffic due to the redevelopment project to Background Total traffic to get Future Total (2024) volumes. The three roadway scenario volumes were then analyzed using Synchro 10 to determine intersection Level of Service (LOS) at the two signalized intersections:

- Old Griffin Road & Bryan Road
- Stirling Road & Bryan Road

as well as the unsignalized intersection:

- NW 1st Street & Bryan Road

For the intersection LOS analyses, the intersections are assigned a grade between "A" and "F". A grade of "D" or better is considered acceptable by the City of Dania Beach. Volume development worksheets are included in Appendix D.



NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

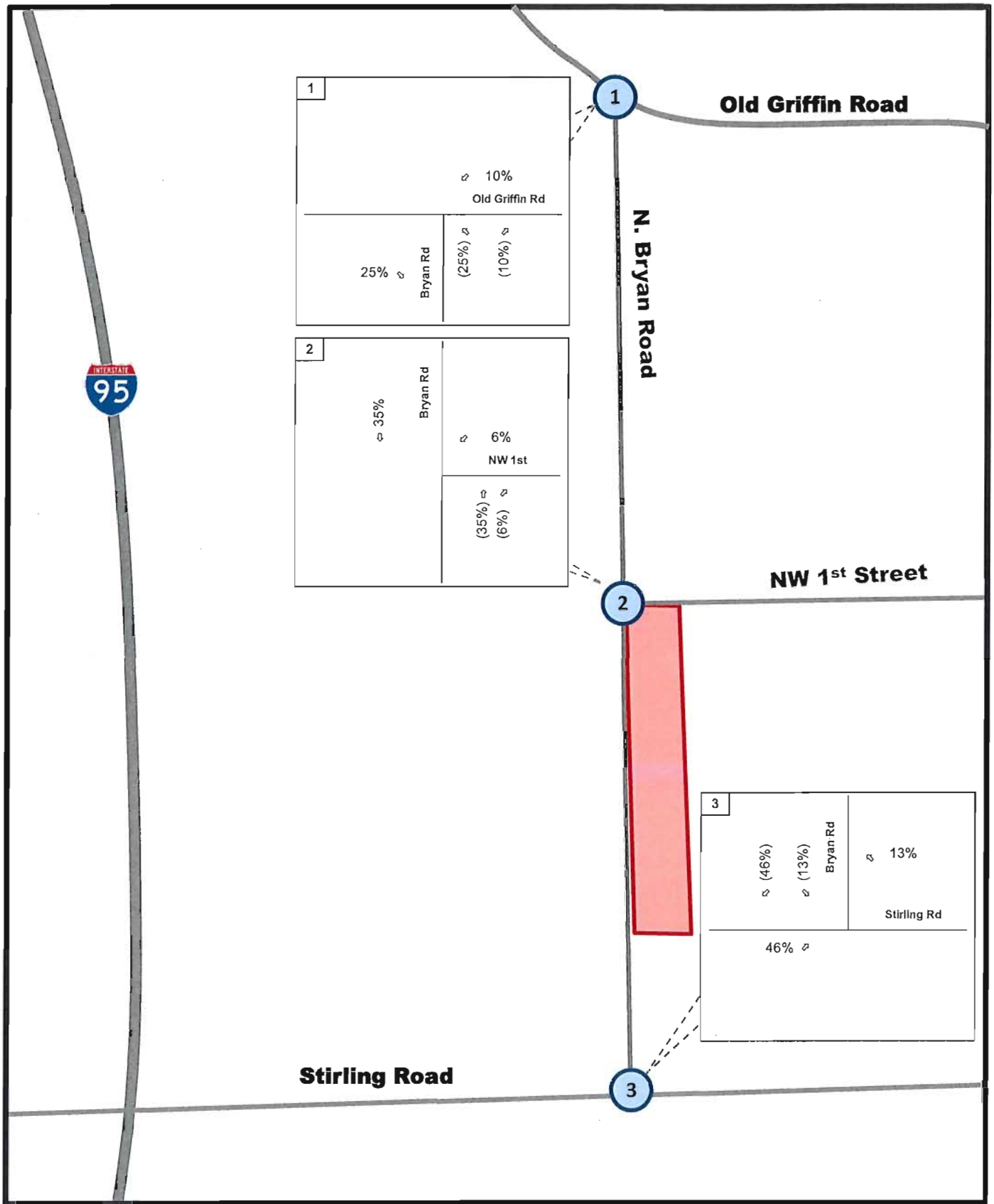
FIGURE 2

PROJECT TRAFFIC ROADWAY DISTRIBUTION

DANIA MARINA

144706000

Kimley»Horn



NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

XX% TRAFFIC ASSIGNMENT

FIGURE 3

PROJECT TRAFFIC INTERSECTION DISTRIBUTION

DANIA MARINA

144706000

Kimley»Horn

INTERSECTION LOS ANALYSIS

Intersection LOS analyses were conducted for the three directly impacted intersections for existing, background, and future total conditions. The analyses were conducted using Synchro 10 software. Reports summarizing the calculations undertaken for each of the intersections and scenarios are included in *Appendix E*. The LOS and delay for existing, background, and future conditions are summarized below in Table 2, Table 3, and Table 4, respectively. The existing, background total, and future total volumes for each of the approaches analyzed are summarized in Figure 4, Figure 5, Figure 6, respectively. Each figure illustrates the approach volume for AM peak hour and PM peak hour times. It is important to note that Old Griffin Road & Bryan Road is proposed to be signalized in the future; therefore, the intersection was analyzed as a signalized intersection using standard signal timing optimized by Synchro 10 for future background and future total conditions. The signal timing for the currently signalized intersection of Bryan Road & Stirling Road is included in *Appendix D.*

Table 2: Existing Intersection LOS Summary

Intersection	Overall LOS/Delay	Approach	LOS/Delay
AM Peak Hour			
Bryan Road & Old Griffin Road (unsig.)	-	NBL	15.2/C
		NBR	9.8/A
		WBL	8.6/A
Bryan Road & NW 1st Street (unsig.)	-	WBL	13.4/B
		SBL	7.8/A
Bryan Road & Stirling Road (sig.)	10.7/B	EB	3.6/A
		WB	6.6/A
		SB	69.9/E
PM Peak Hour			
Bryan Road & Old Griffin Road (unsig.)	-	NBL	25.7/D
		NBR	10.6/B
		WBL	9.5/A
Bryan Road & NW 1st Street (unsig.)	-	WBL	16.5/C
		SBL	7.9/A
Bryan Road & Stirling Road (sig.)	18.8/B	EB	6.5/A
		WB	12.3/B
		SB	77.4/E

*Note for Tables 2, 3, and 4, "Overall LOS/Delay" at unsignalized, two-way stop-controlled intersections

The analysis includes optimized timing during future total conditions at signalized intersections. As shown, all three intersections are projected to meet LOS standards during the AM peak hour with project traffic. During the PM peak hour, the westbound movement at Bryan Road & NW 1st Street is anticipated to operate at LOS F. This is not uncommon during peak periods at two-way stop-controlled intersections. It should be noted that the v/c ratio for the westbound movements is still projected to be below 1.0, meaning that these movements are not over capacity.

Table 3: Background Intersection LOS Summary

Intersection	Overall LOS/Delay	Approach	LOS/Delay
AM Peak Hour			
Bryan Road & Old Griffin Road (sig.)	12.6 / B	EB	6.2/A
		WB	13.8/B
		NB	31.3/C
Bryan Road & NW 1st Street (unsig.)	-	WBL	18.1/C
		SBL	8.1/A
Bryan Road & Stirling Road (sig.)	19.7 /B	EB	7.3/A
		WB	12.9/B
		SB	80.8/F
PM Peak Hour			
Bryan Road & Old Griffin Road (sig.)	21.5/C	EB	15.5/B
		WB	20.5/C
		NB	34.3/C
Bryan Road & NW 1st Street (unsig.)	-	WBL	26.3/D
		SBL	8.8/A
Bryan Road & Stirling Road (sig.)	99.3 / F	EB	12.2/B
		WB	15.9/B
		SB	407.6/F

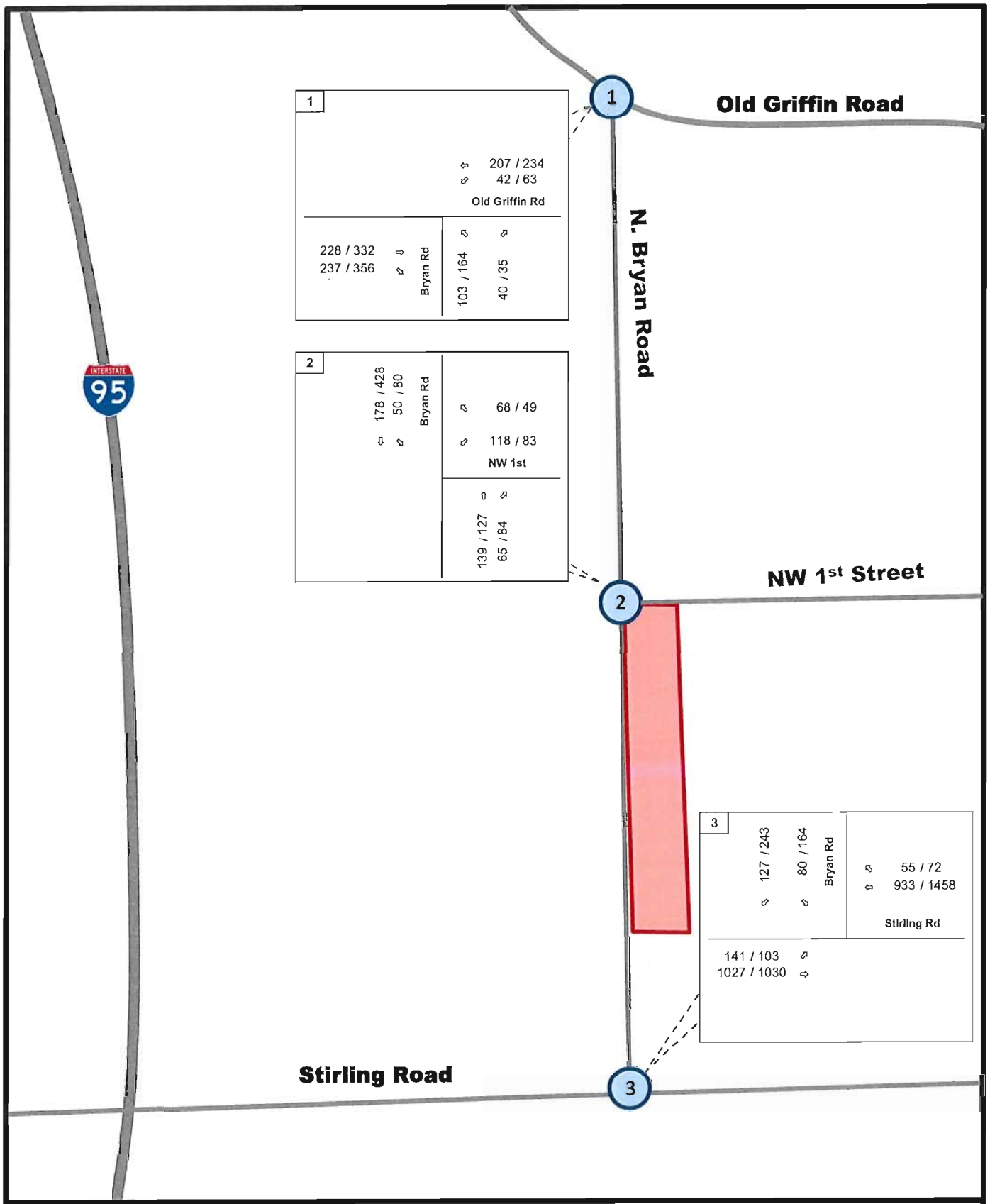
Table 4: Future Total Intersection LOS Summary

Intersection	Overall LOS/Delay	Approach	LOS/Delay
AM Peak Hour			
Bryan Road & Old Griffin Road (sig.)	14.2 / B	EB	10.3/B
		WB	14.6/B
		NB	24.3/C
Bryan Road & NW 1st Street (unsig.)	-	WBL	22.1/C
		SBL	8.4/A
Bryan Road & Stirling Road (sig.)	34.2 / C	EB	7.8/A
		WB	13.5/B
		SB	148.9/F
North Driveway & Bryan Road (unsig.)	-	WBL	18.0/C
		SBL	8.4/A
South Driveway & Bryan Road (unsig.)	-	WBL	32.3/D
		SBL	8.4/A
PM Peak Hour			
Bryan Road & Old Griffin Road (sig.)	25.3 / C	EB	18.1/B
		WB	25.9/C
		NB	39.6/D
Bryan Road & NW 1st Street (unsig.)	-	WBL	38.2/E
		SBL	9.0/A
Bryan Road & Stirling Road (sig.)	102.3 / F	EB	23.7/C
		WB	19.1/B
		SB	385.2/F
North Driveway & Bryan Road (unsig.)	-	WBL	27.5/D
		SBL	9.4/A
South Driveway & Bryan Road (unsig.)	-	WBL	67.2/F
		SBL	9.8/A

The intersection of Bryan Road & Stirling Road operates at a LOS F in both the background and future conditions. Since the intersection is expected to fail during the background conditions, the operational failures of the intersection are not caused by project traffic specifically. However, to mitigate the operational failures of the intersection the signal timing has been optimized using Synchro 10. The Future Total condition with signal timing optimization brings the intersection LOS from an F to a D in the PM peak hour.

Table 5: Future Total with improvements Intersection LOS Summary

Intersection	Overall LOS/Delay	Approach	LOS/Delay
AM Peak Hour			
Bryan Road & Stirling Road (sig.)	24.6 / C	EB	15.0/B
		WB	25.3/C
		SB	49.5/D
PM Peak Hour			
Bryan Road & Stirling Road (sig.)	53.3 / D	EB	35.4/D
		WB	59.9/E
		SB	71.2/E



NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

AM TRAFFIC / *PM TRAFFIC*

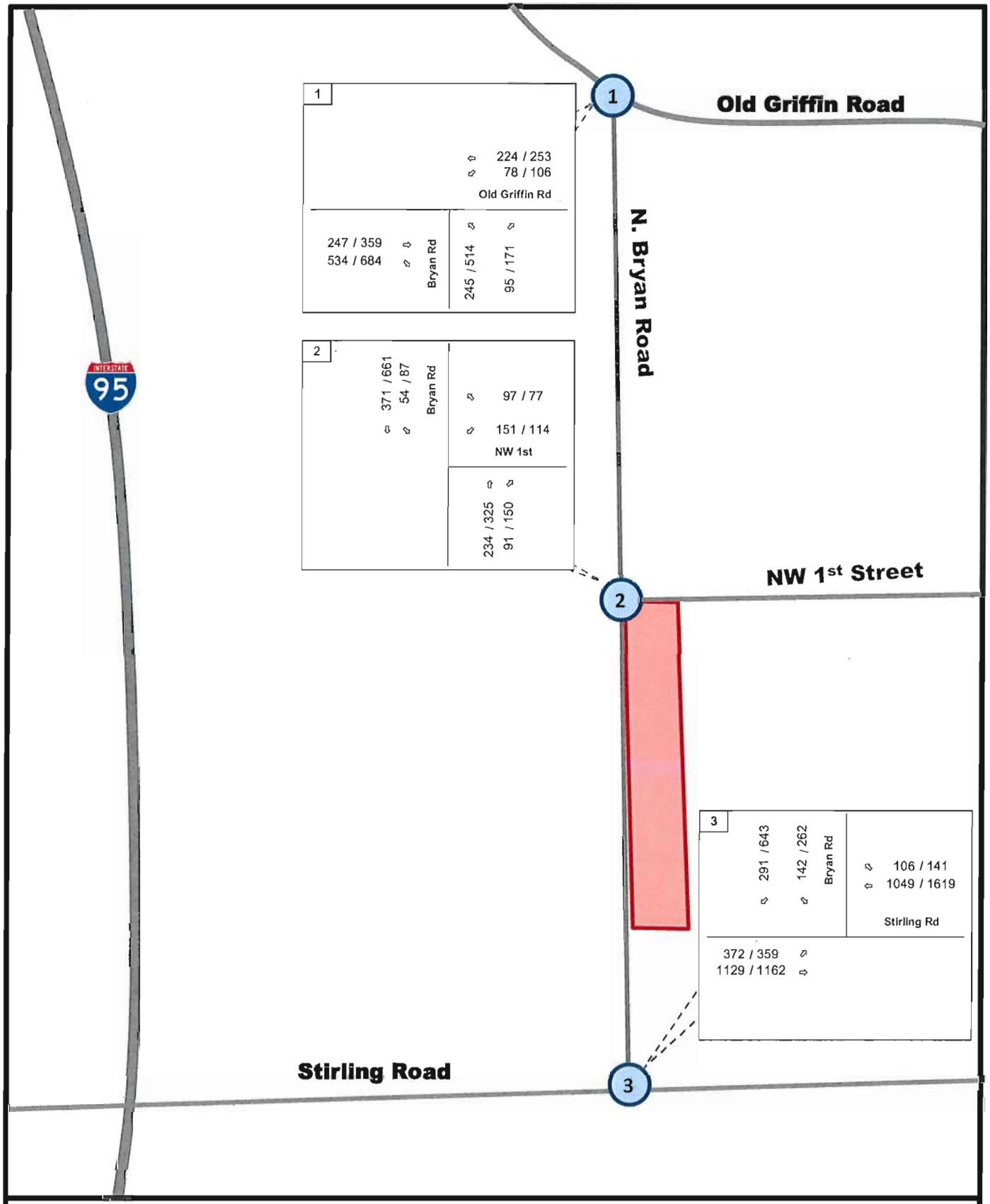
FIGURE 4

EXISTING YEAR INTERSECTION VOLUMES

DANIA MARINA

144706000

Kimley»Horn



NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

AM TRAFFIC / *PM TRAFFIC*

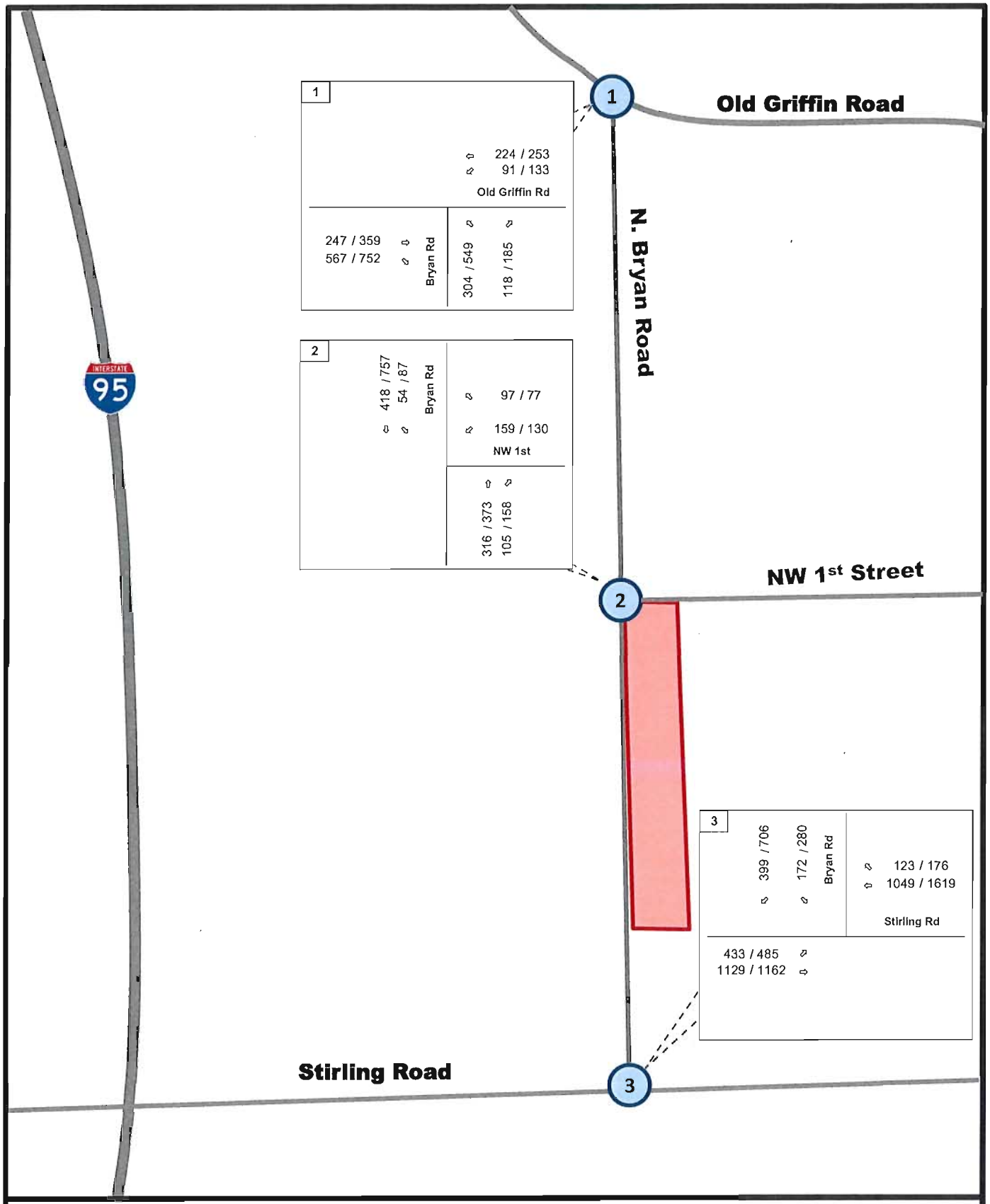
FIGURE 5

BACKGROUND YEAR INTERSECTION VOLUMES

DANIA MARINA

144706000

Kimley»Horn



NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

AM TRAFFIC / *PM TRAFFIC*

FIGURE 6

FUTURE TOTAL INTERSECTION VOLUMES

DANIA MARINA

144706000

Kimley»Horn

95th Percentile Queueing Analysis

The queue lengths for the three major intersections were analyzed using *Synchro 10* software to determine the 95th Percentile Queue that would be expected for each of the turning movements where vehicle storage is available.

EXISTING YEAR (2019)

Existing year traffic volumes were used, and it was determined that none of the queue lengths at the intersections are expected to be longer than the available storage length. The results are summarized in Table 6 below.

Table 6: Existing Year (2019) 95th Percentile Queue Lengths

Intersection	Movement	Storage	AM queue	PM queue
Existing				
Bryan Road & Old Griffin Road (unsig.)	NBR	150	25	25
	WBL	75	25	25
Bryan Road & NW 1st Street (unsig.)	WB	DNE	35	33
	SBL	TWLT	25	25
Bryan Road & Stirling Road (sig.)	EBL	240	17	26
	SBL	250	76	119
	SBR	480	71	297

As seen in the table above, none of the vehicle storage is exceeded during the existing 2019 scenario.

BACKGROUND YEAR (2024)

Background year traffic volumes were used to determine the queue lengths that would be expected in the year 2024 scenario without project traffic. The results are summarized in Table 7 below.

Table 7: Background Year (2024) 95th Percentile Queue Lengths

Intersection	Movement	Storage	AM queue	PM queue
Background				
Bryan Road & Old Griffin Road (sig.)	EBR	125	27	145
	WBL	75	79	121
	NBR	150	33	43
Bryan Road & NW 1st Street (unsig.)	WB	DNE	70	83
	SBL	TWLT	25	25
Bryan Road & Stirling Road (sig.)	EBL	240	86	250
	SBL	250	104	188
	SBR	480	281	1211

As seen in the above table the following turn lanes are expected to experience queuing which is longer than the available turn lane storage at the following movements:

- Bryan Road & Old Griffin Road EBR during the PM peak hour
- Bryan Road & Old Griffin Road WBL during the AM and PM peak hours
- Bryan Road & Stirling Road EBL during the PM peak hour
- Bryan Road & Stirling Road SBR during the PM peak hour

FUTURE YEAR (2024)

Future year traffic volumes were used to determine the queue lengths that would be expected in the year 2024 scenario with project traffic. The results are summarized in Table 8 below.

Table 8: Future Year (2024) 95th Percentile Queue Lengths

Intersection	Movement	Storage	AM queue	PM queue
Future				
Bryan Road & Old Griffin Road (sig.)	EBR	125	62	223
	WBL	75	87	164
	NBR	150	34	49
Bryan Road & NW 1st Street (unsig.)	WB	DNE	90	123
	SBL	TWLT	25	25
Bryan Road & Stirling Road (sig.)	EBL	240	129	418
	SBL	250	114	202
	SBR	480	384	1379
North Driveway & Bryan Road (unsig.)	WB	DNE	40	53
	SBL	TWLT	25	25
South Driveway & Bryan Road (unsig.)	WB	DNE	123	163
	SBL	TWLT	25	25

As seen in the above table the following turn lanes are expected to experience queuing which is longer than the available turn lane storage at the following movements:

- Bryan Road & Old Griffin Road EBR during the PM peak hour
- Bryan Road & Old Griffin Road WBL during the AM and PM peak hours
- Bryan Road & Stirling Road EBL during the PM peak hour
- Bryan Road & Stirling Road SBR during the PM peak hour

It should be noted that project traffic does not contribute to any additional storage deficiencies that are not already present during the background year scenario. However, project traffic from this site does exacerbate deficiencies at the intersections listed above.

FUTURE YEAR OPTIMIZED (2024)

Future year traffic volumes were used along with optimized signal timing at the intersection of Bryan Road & Stirling road to alleviate some of the storage deficiencies at the intersection. The results are summarized in Table 9 below.

Table 9: Future Year Optimized (2024) 95th Percentile Queue Lengths

Intersection	Movement	Storage	AM	PM
Future - Improvement				
Bryan Road & Stirling Road (sig.)	EBL	240	165	356
	SBL	250	106	160
	SBR	480	372	1038

ROADWAY CAPACITY ANALYSIS

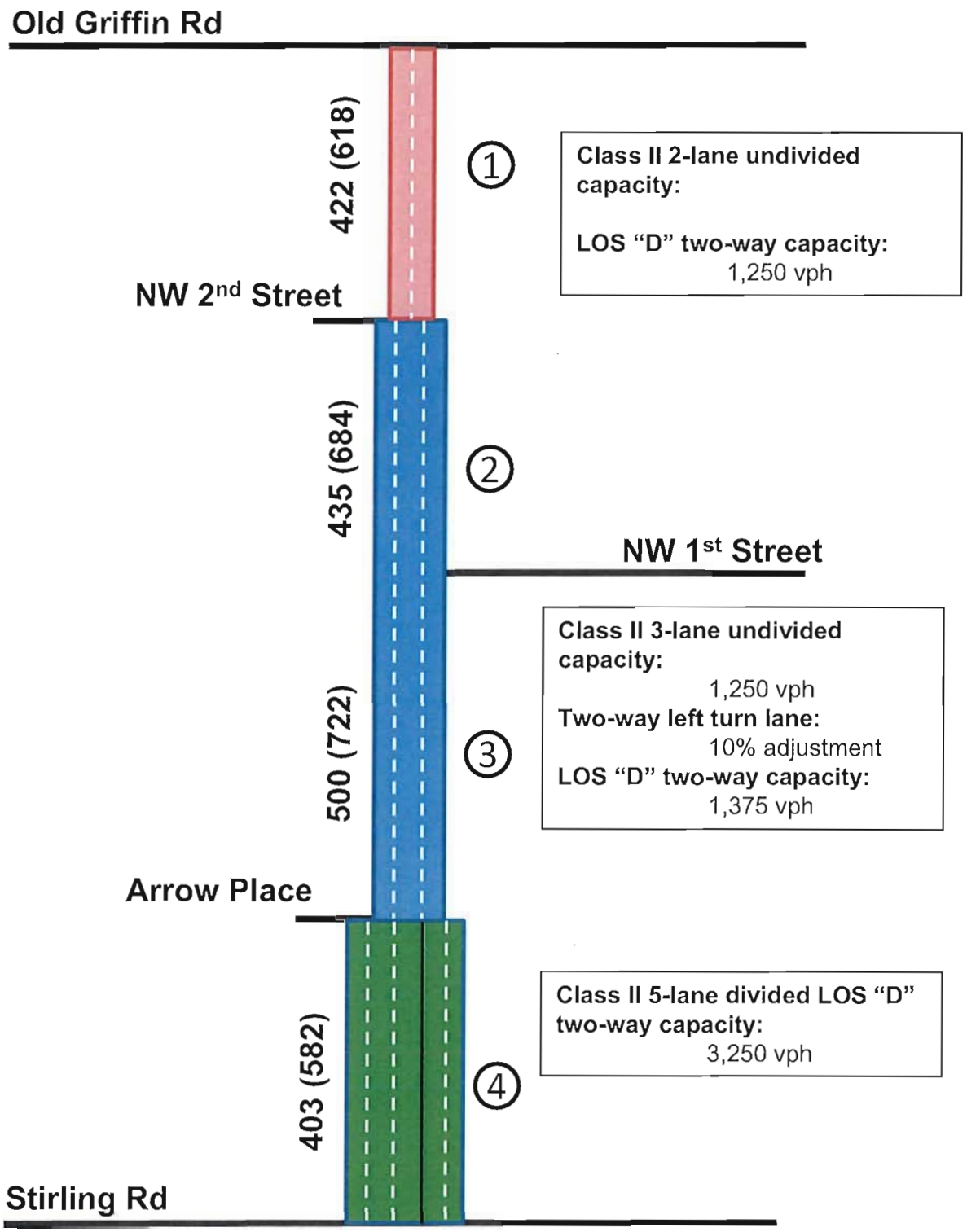
A roadway capacity analysis has been conducted on Bryan Road to review if the roadway cross-section will be adequate to accommodate total future traffic conditions. The baseline for a two-lane roadway LOS D is 1,250 total vehicles per hour. Bryan Road south of NW 2nd Street has a two-way left turn lane median and exclusive right turn lanes; a 10% adjustment factor was added to this baseline service volume. Therefore, the two-lane road service volume for Bryan Road south of NW 1st Street will be compared to is 1,375 vehicles per hour during peak hour traffic flow.

BRYAN ROAD - NORTH OF NW 1ST STREET

The total traffic two-way traffic volume for this roadway segment was determined from the sum of the northbound left-turn, northbound right-turn, eastbound right-turn, and westbound left-turn movements at the intersection of Old Griffin Road & Bryan Road. For the AM peak hour, the future traffic total on Bryan Road to the north of the project site was determined to be 1,080 two-way AM peak hour vehicles. The PM peak hour future total two-way traffic volume to the north of the project site along Bryan Road was found to be 1,619 vehicles. Therefore, it was determined that Bryan Road north of the project site (which experiences one of the highest volume of traffic along Bryan Road) is expected to operate at 79% of the LOS D capacity for a two-lane road during the AM peak hour and 118% of the LOS D capacity during the PM peak hour.

BRYAN ROAD - SOUTH OF NW 1ST STREET

The total two-way traffic volume for this roadway segment was determined from the sum of the northbound through, northbound right-turn, southbound through, and westbound left-turn movements at the intersection of NW 1st Street & Bryan Road. For the AM peak hour, the future traffic total on Bryan Road in front of the project site was determined to be 998 two-way AM peak hour vehicles. The PM peak hour future total two-way traffic volume in front of the project site along Bryan Road was found to be 1,418 vehicles. Therefore, it was determined that Bryan Road in front of the project site (which experiences the highest volume of traffic along Bryan Road) is expected to operate at 73% of the LOS D capacity for a two-lane road with a shared two-way left-turn lane and exclusive right turn lanes during the AM peak hour and 103% of the LOS D capacity during the PM peak hour. The same analysis was conducted on Bryan Road for the existing (2019) and background (2024) conditions. These volumes are illustrated in Figure 7, and Figure 8 respectively. Figure 9 illustrates the future (2024) traffic volumes expected on the roadway. It was determined that the portion of Bryan Road directly south of Old Griffin Road is above the adopted LOS "D" capacity in the PM peak hour during the background (2024) and future (2024) conditions.



LEGEND

XX (XX) AM (PM) Peak Hour Traffic Volume

NORTH

3 Lane Undivided Cross-Section

2 Lane Undivided Cross-Section

5 Lane Divided Cross-Section

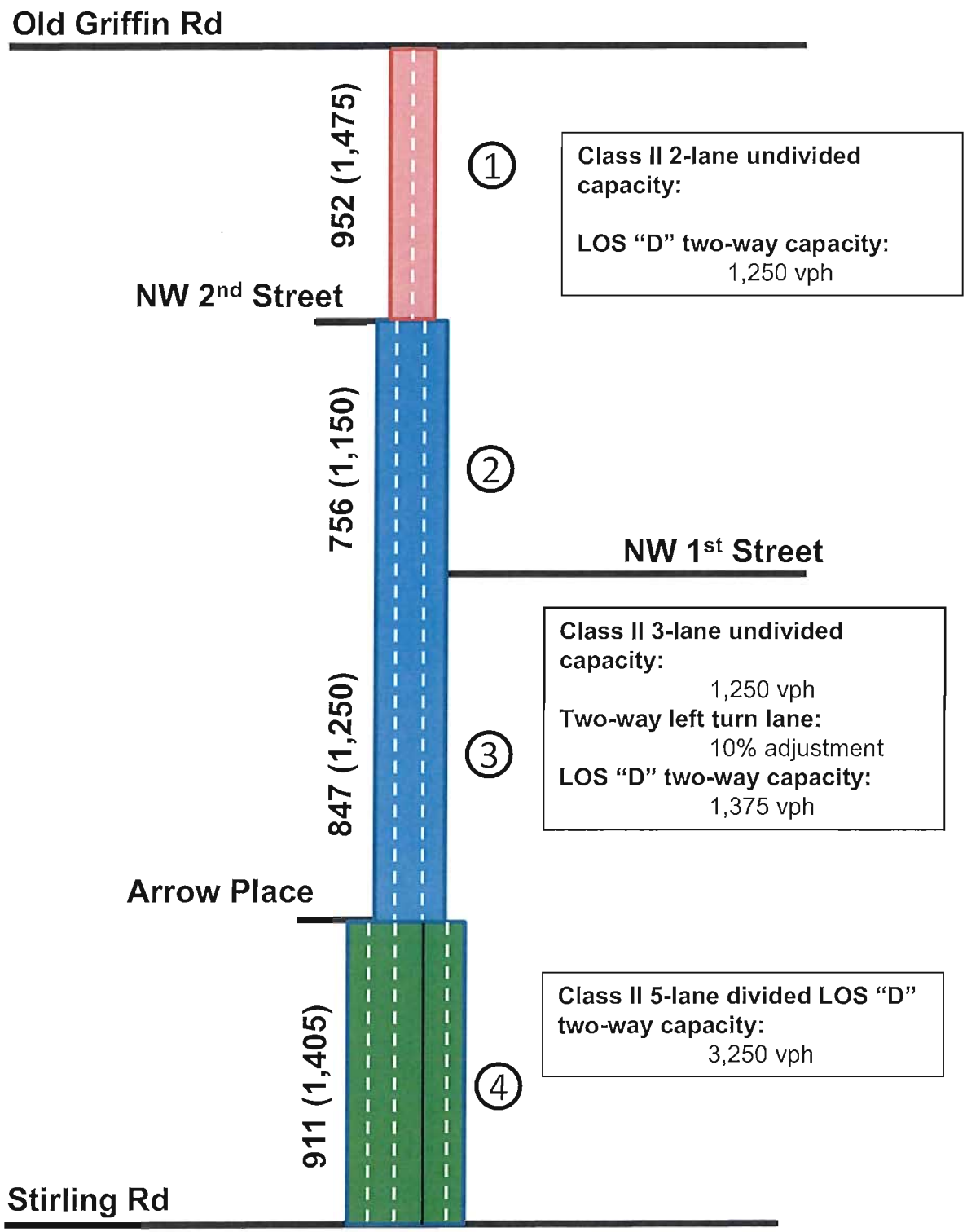
FIGURE 7

EXISTING BRYAN ROAD 2-WAY VOLUMES

DANIA MARINA

144706000

Kimley»Horn



LEGEND

XX (XX) AM (PM) Peak Hour Traffic Volume

3 Lane Undivided Cross-Section

2 Lane Undivided Cross-Section

5 Lane Divided Cross-Section

NORTH

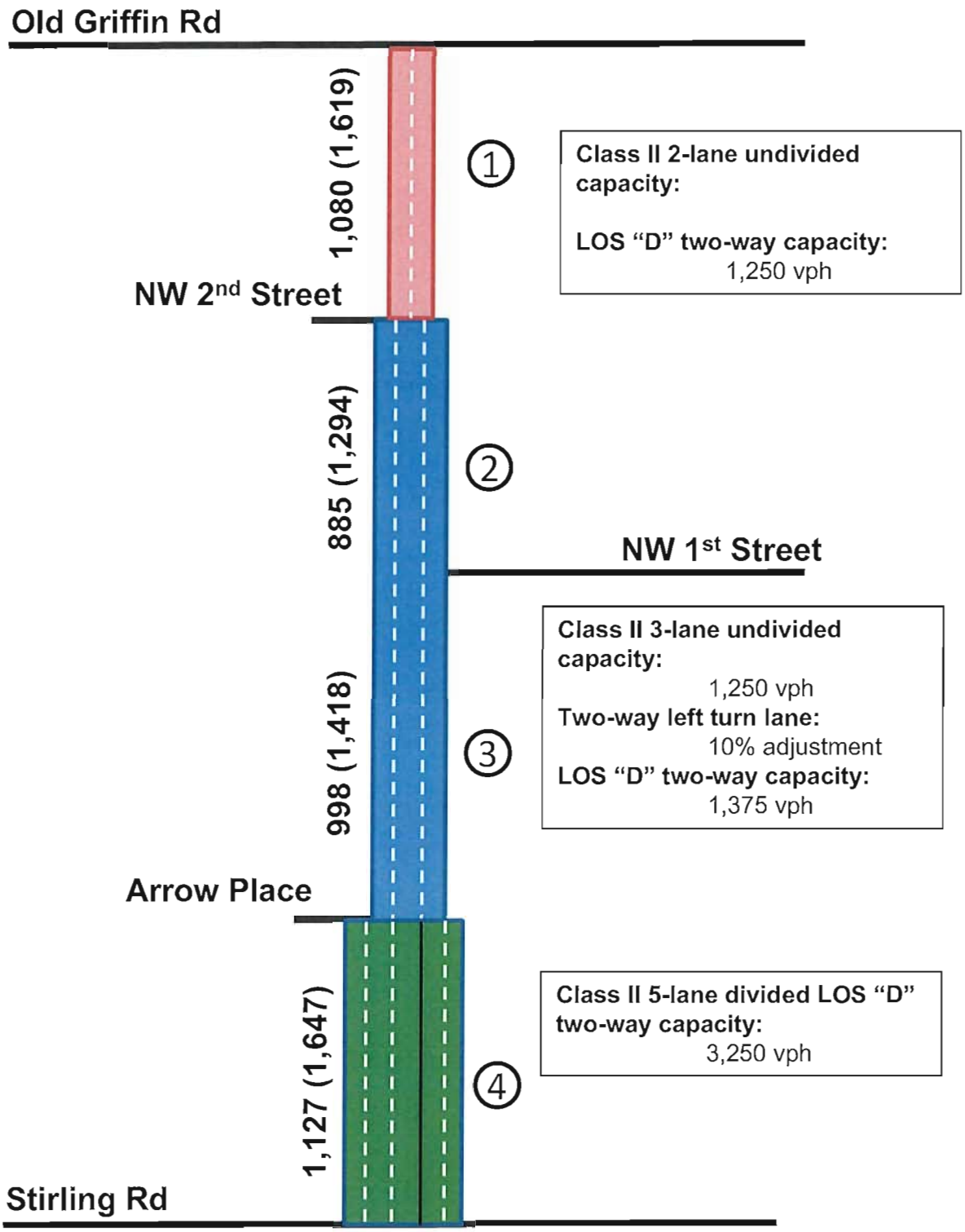
FIGURE 8

BACKGROUND BRYAN ROAD 2-WAY VOLUMES

DANIA MARINA

144706000

Kimley»Horn



LEGEND

XX (XX) AM (PM) Peak Hour Traffic Volume

NORTH

3 Lane Undivided Cross-Section

2 Lane Undivided Cross-Section

5 Lane Divided Cross-Section

FIGURE 9

FUTURE TOTAL BRYAN ROAD 2-WAY VOLUMES

DANIA MARINA

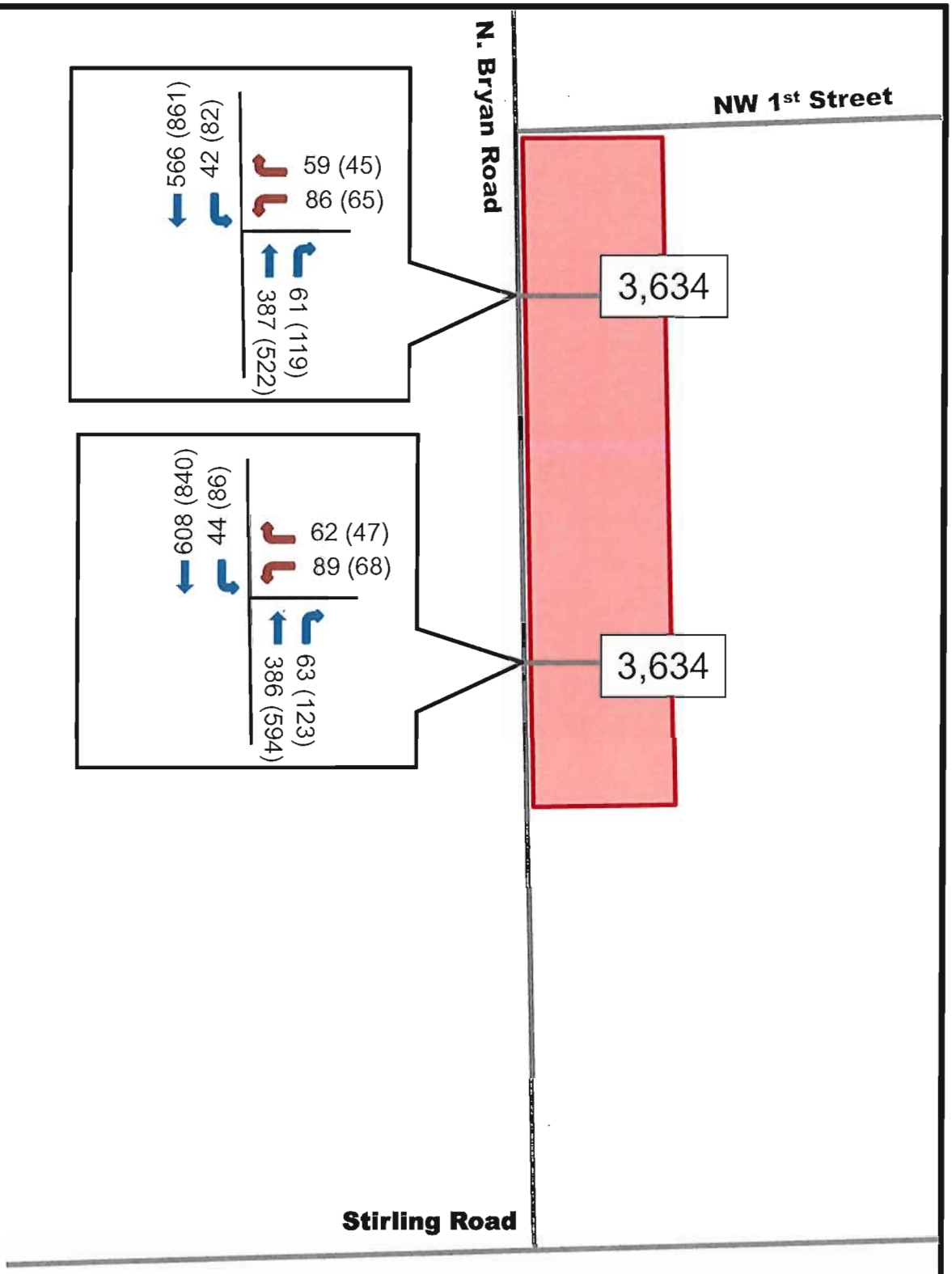
144706000

Kimley»Horn

SITE ACCESS

The site is proposed to have two full-access driveways on Bryan Road. Figure 10 illustrates the anticipated volumes at the two driveways. During the review process, the applicant will coordinate with the City of Dania Beach and Broward County regarding the laneage and configuration of these driveway connections. The site plan includes a northbound right-turn deceleration lane at each driveway.

Synchro 10 software was used to analyze each of the proposed driveways. Analysis of these driveways was conducted using volumes extrapolated from the turning movement counts conducted at the intersection of Bryan Road & NW 1st Street with expected project driveway volumes as illustrated in Table 1. Since both Dania Marina sites will consist of the same square footage breakdown, it was expected that each driveway would experience very similar traffic volumes. The north driveway is expected to operate at LOS C in the AM peak hour and LOS D in the PM peak hour. The south driveway is expected to operate at LOS D in the AM peak hour and LOS F in the PM peak hour. Synchro analyses for each driveway can be found in *Appendix E.*



LEGEND

XX (XX) AM Trips (PM Trips)

XX Daily Driveway Volume

NORTH

FIGURE 10
SITE DRIVEWAY VOLUMES
DANIA MARINA
144706000

Kimley»Horn

CONCLUSION

The traffic impact analysis that was undertaken evaluated the impacts of traffic generated by the proposed redevelopment of the Dania Marina site on the surrounding roadway network. This evaluation considered total future roadway volume conditions with traffic generated by the subject site, plus traffic generated by the remaining unbuilt portion of Dania Pointe and by the proposed redevelopment of the 150 South Bryan Road site. The evaluation indicated that the two major signalized intersections along Bryan Road are anticipated to meet level of service standards with signalization of Old Griffin Road & Bryan Road and signal timing optimization of Stirling Road & Bryan Road. The roadway segment evaluation of Bryan Road analyzed the two-lane section of Bryan Road north of NW 1st Avenue and the enhanced three-lane section of Bryan Road with right turn lanes south of the site. The evaluation demonstrated that Bryan Road is anticipated to meet the level of service standards except for the north segment (south of Old Griffin Road) during the PM peak hour. Currently, the additional right-of-way that would need to be acquired in order to widen this segment is a part of privately-owned property along the corridor. Therefore, it is currently not possible to widen this segment. However, as part of the site plan application, the Applicant proposes to dedicate right of way along the site frontage on Bryan Road, which will accommodate any future widening of this segment of Bryan Road that may be needed.

Furthermore, it is anticipated that the Applicant will construct right-turn deceleration lanes at the two proposed site driveways. Exact parameters related to these lanes will be determined during the platting process.

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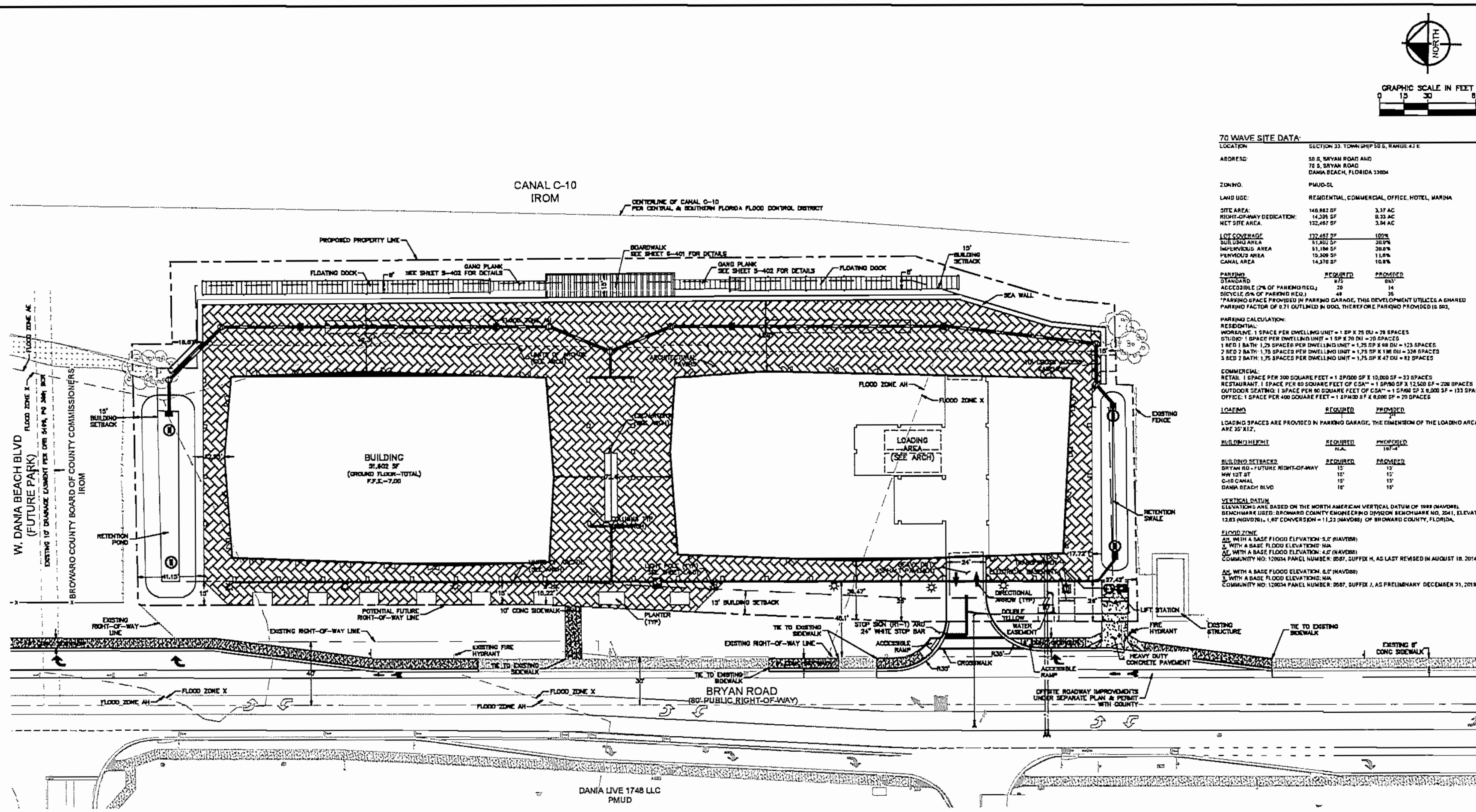
Kimley»Horn

APPENDIX A: SITE PLAN



70 WAVE SITE DATA

LOCATION:	SECTION 33, TOWNSHIP 50 S, RANGE 42 E	
ADDRESS:	50 S. BRYAN ROAD AND 78 S. BRYAN ROAD DANIA BEACH, FLORIDA 33004	
ZONING:	PMUD-SL	
LAND USE:	RESIDENTIAL, COMMERCIAL, OFFICE, HOTEL, MARINA	
SITE AREA:	146,862 SF	3.37 AC
RIGHT-OF-WAY DEDICATION:	14,395 SF	0.33 AC
NET SITE AREA:	132,467 SF	3.04 AC
LOT COVERAGE	132,467 SF	100%
BUILDING AREA	51,602 SF	38.9%
IMPERVIOUS AREA	51,186 SF	38.6%
PERVIOUS AREA	15,309 SF	11.6%
CANAL AREA	14,370 SF	10.8%

PARKING	REQUIRED	PROVIDED
STANDARD	875	893*
ACCESSIBLE (2% OF PARKING REQ.)	20	14
BICYCLE (5% OF PARKING REQ.)	48	36

*PARKING SPACE PROVIDED IN PARKING GARAGE. THIS DEVELOPMENT UTILIZES A SHARED PARKING FACTOR OF 0.71 OUTLINED IN DOC. THEREFORE PARKING PROVIDED IS 893.

PARKING CALCULATION:
RESIDENTIAL:
WORKLIVE: 1 SPACE PER DWELLING UNIT = 1 SP X 25 DU = 25 SPACES
STUDIO: 1 SPACE PER DWELLING UNIT = 1 SP X 20 DU = 20 SPACES
1 BED 1 BATH: 1.25 SPACES PER DWELLING UNIT = 1.25 SP X 98 DU = 123 SPACES
2 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 186 DU = 326 SPACES
3 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 47 DU = 82 SPACES

COMMERCIAL:
RETAIL: 1 SPACE PER 300 SQUARE FEET = 1 SP/300 SF X 10,000 SF = 33 SPACES
RESTAURANT: 1 SPACE PER 60 SQUARE FEET OF CSA** = 1 SP/60 SF X 12,500 SF = 208 SPACES
OUTDOOR SEATING: 1 SPACE PER 60 SQUARE FEET OF CSA** = 1 SP/60 SF X 8,000 SF = 133 SPACES
OFFICE: 1 SPACE PER 400 SQUARE FEET = 1 SP/400 SF X 8,000 SF = 20 SPACES

LOADING	REQUIRED	PROVIDED
	[illegible]	[illegible]

LOADING SPACES ARE PROVIDED IN PARKING GARAGE. THE DIMENSION OF THE LOADING AREAS ARE 35' X 12'.

BUILDING HEIGHT	REQUIRED	PROPOSED
	N.A.	197'-4"

BUILDING SETBACKS	REQUIRED	PROVIDED
BRYAN RD - FUTURE RIGHT-OF-WAY	15'	15'
NW 1ST ST	15'	15'
C-10 CANAL	15'	15'
DANIA BEACH BLVD	15'	15'

VERTICAL DATUM
ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BENCHMARK USED: BROWARD COUNTY ENGINEERING DIVISION BENCHMARK NO. 2041, ELEVATION 13.83 (NGVD29), 1.60' CONVERSION = 11.23 (NAVD88) OF BROWARD COUNTY, FLORIDA.

FLOOD ZONE
AH, WITH A BASE FLOOD ELEVATION: 5.0' (NAVD88)
X, WITH A BASE FLOOD ELEVATION: NA
AE, WITH A BASE FLOOD ELEVATION: 4.0' (NAVD88)
COMMUNITY NO: 120034 PANEL NUMBER: 0567, SUFFIX H, AS LAST REVISED IN AUGUST 18, 2014.

AH, WITH A BASE FLOOD ELEVATION: 6.0' (NAVD88)
X, WITH A BASE FLOOD ELEVATIONS: NA
COMMUNITY NO: 120034 PANEL NUMBER: 0567, SUFFIX J, AS PRELIMINARY DECEMBER 31, 2019.

LEGAL DESCRIPTION - SOUTH BUILDING

PARCEL 1
THE SOUTH ONE-HALF OF THE SOUTHWEST ONE-QUARTER (SW ¼) OF THE NORTHWEST ONE-QUARTER (NW ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, LESS ALL OF THE PORTIONS LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:
COMMENCING AT THE NE CORNER OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 20 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE ¼ (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1,111.06 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1,974.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SAID SECTION; THENCE NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST A DISTANCE OF 150.0 FEET; THENCE SOUTH 89 DEGREES 17 MINUTES 30 SECONDS WEST, A DISTANCE 14.50 FEET; THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE S ½ OF THE SW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ TO THE POINT OF BEGINNING, THENCE CONTINUE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 118 FEET FROM THE LAST POINT OF DEFLECTION; THENCE NORTH 87 DEGREES 09 MINUTES 43 SECONDS WEST, A DISTANCE OF 20.0 FEET, THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 20 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE SW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.
ALSO LESS THE WEST 30.0 FEET OF THE SOUTH HALF (S ½) OF THE SOUTHWEST QUARTER (SW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.
ALSO LESS ALL THAT PORTION OF THE SOUTH 10.0 FEET OF THE SOUTH HALF (S ½) OF THE SOUTHWEST QUARTER (SW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, LYING WEST OF CENTRAL & SOUTHERN FLORIDA FLOOD CONTROL DISTRICT CANAL C-10 RIGHT OF WAY.
AND
THE NORTH ONE-HALF (N ½) OF THE SOUTHWEST ONE-QUARTER (SW ¼) OF THE NORTHWEST ONE-QUARTER (NW ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, LESS ALL OF THAT PORTION LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:
COMMENCING AT THE NE CORNER OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 20 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE ¼ (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1,111.06 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1,974.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SW ¼ OF NW ¼ OF SE ¼ OF SE ¼ OF SAID SECTION; THENCE NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 150.0 FEET; THENCE SOUTH 89 DEGREES 17 MINUTES 30 SECONDS WEST, A DISTANCE OF 14.50 FEET; THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE NORTH ½ OF SW ¼ OF SE ¼ OF SE ¼ OF SAID 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE NORTH ½ OF SW ¼ OF NW ¼ OF SE ¼ OF SE ¼ OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.
ALSO LESS THE WEST 30.0 FEET OF THE NORTH HALF (N ½) OF THE SOUTH WEST QUARTER (SW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

PARCEL 2
A PORTION OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;
COMMENCING AT THE NE CORNER OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, THENCE SOUTH 87°26'41" WEST (BASIS OF BEARING), ALONG THE NORTH LINE OF SAID SOUTHEAST ¼ (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1,111.05 FEET; THENCE SOUTH 00°50'21" EAST, A DISTANCE OF 1,977.24 FEET, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SOUTHWEST ¼ OF THE NORTHWEST ¼ OF THE SOUTHEAST ¼ OF THE SOUTHEAST ¼ OF SAID SECTION; THENCE NORTH 87°33'42" EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.03 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 87°23'42" EAST, A DISTANCE OF 28.82 FEET; THENCE SOUTH 01°58'30" EAST, A DISTANCE OF 201.92 FEET; THENCE SOUTH 15°11'27" WEST, A DISTANCE OF 82.10 FEET; THENCE SOUTH 04°24'06" WEST, A DISTANCE OF 35.50 FEET; THENCE SOUTH 87°25'33" WEST, A DISTANCE OF 49.86 FEET TO A POINT ON THE EXISTING WESTERLY RIGHT OF WAY LINE OF CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT C-10 CANAL RIGHT OF WAY; THENCE NORTH 02°46'38" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 59.99 FEET; THENCE SOUTH 87°13'21" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 20.00 FEET; THENCE NORTH 02°46'38" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 118.00 FEET; THENCE NORTH 89°09'52" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 14.50 FEET, THENCE NORTH 00°50'08" WEST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 150.00 FEET TO THE POINT OF BEGINNING.

PARCEL A
PARCEL A OF CLARKE SUBDIVISION, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 101, PAGE 32 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; WHICH IS A PORTION OF THE NW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

PARCEL B
A PARCEL OF LAND BEING LOCATED IN THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, 42 RANGE EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCE AT THE SOUTHEAST (SE) CORNER OF SAID SECTION 33; THENCE NORTH 01°17'46" WEST ALONG THE EAST LINE OF SAID SECTION 33 FOR A DISTANCE OF 1,340.79 FEET; THENCE SOUTH 87°30'33" WEST FOR A DISTANCE OF 1,118.61 FEET TO THE NORTHEAST (NE) CORNER OF A PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 8775, PAGE 400 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; THENCE SOUTH 01°26'53" EAST ALONG THE EAST LINE OF SAID PARCEL FOR A DISTANCE OF 50.01 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG AFORESAID LINE FOR A DISTANCE OF 25.00 FEET TO THE SOUTHEAST (SE) CORNER OF SAID PARCEL, (SAID POINT ALSO BEING THE NORTHEAST CORNER OF PARCEL A OF CLARKE SUBDIVISION PLAT) FOR A DISTANCE OF 186.10 FEET TO THE NORTHWEST (NW) CORNER OF PARCEL A OF SAID PLAT; THENCE NORTH 42°30'48" EAST, A DISTANCE OF 35.38 FEET, THENCE NORTH 87°30'33" EAST ALONG A LINE 25 FEET NORTH OF AND PARALLEL WITH THE NORTH LINE OF SAID CLARKE SUBDIVISION A DISTANCE OF 161.55 FEET TO THE POINT OF BEGINNING.
SAID LANDS LYING AND SITUATED IN THE CITY OF DANIA, BROWARD COUNTY, FLORIDA.

NOTES:
1. SIGNAGE BY SEPARATE PERMIT
2. REFER TO DEVELOPMENT GUIDELINES AND PMUD-SL ORDINANCE AND MASTER DEVELOPMENT PLAN.
3. ALL VEHICULAR MARKINGS TO BE THERMOPLASTIC

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL
JACOB B. LAWSON, P.E.
FLORIDA LICENSE NUMBER
83357
DATE

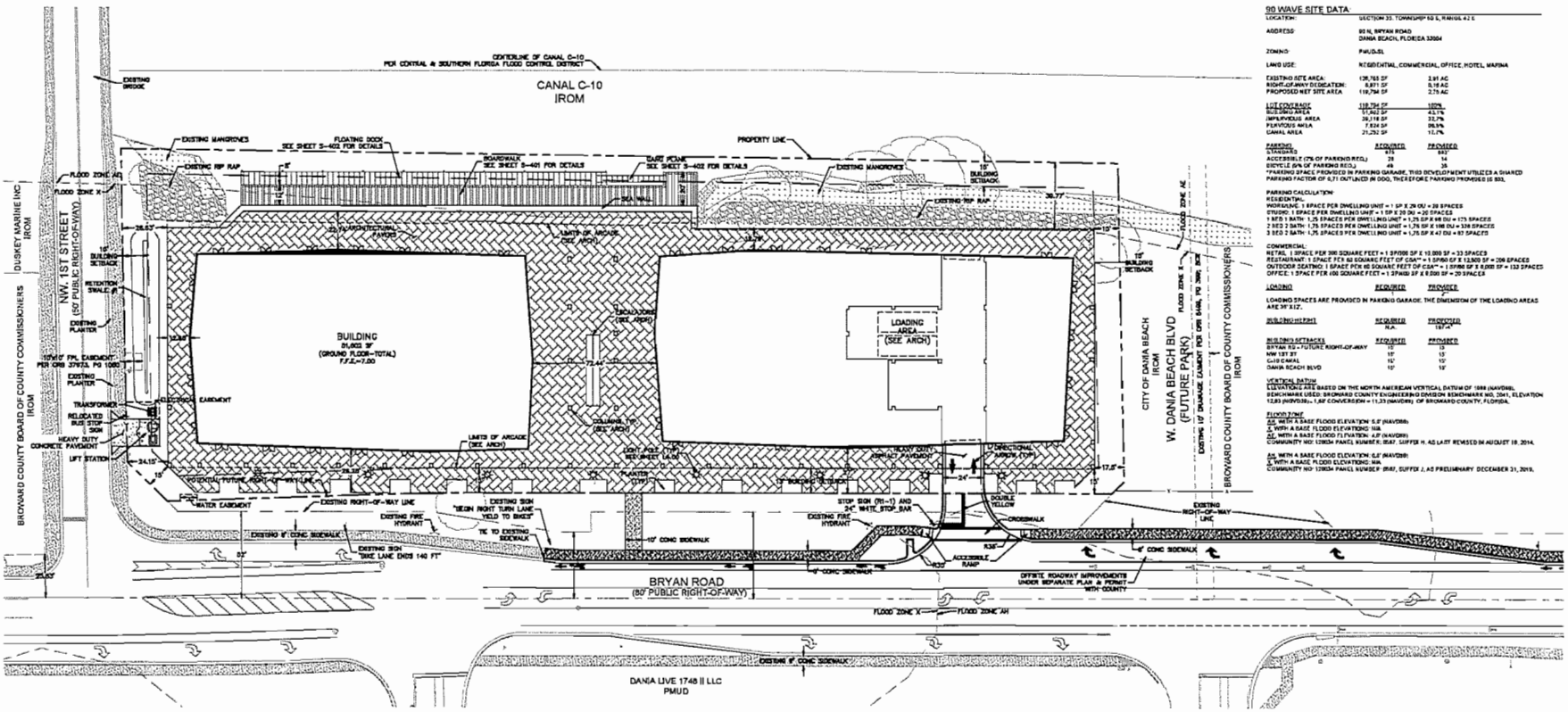
KHA PROJECT 147706000
DATE
DATE
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

SITE PLAN

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-100

Plotted By: Kendall, Jeff Sheet Set: 147706000 - 70 Wave Layout: C-100 SITE PLAN June 24, 2020 09:32:10pm K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-100 SITE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



GRAPHIC SCALE IN FEET
0 15 30 60

90 WAVE SITE DATA

LOCATION: SECTION 33, TOWNSHIP 50 S, RANGE 42 E

ADDRESS: 90 N. BRYAN ROAD
DANIA BEACH, FLORIDA 33004

ZONING: PMUD-SL

LAND USE: RESIDENTIAL, COMMERCIAL, OFFICE, HOTEL, MARINA

EXISTING SITE AREA:	126,765 SF	2.91 AC
RIGHT-OF-WAY DEDICATION:	8,871 SF	0.16 AC
PROPOSED NET SITE AREA	118,794 SF	2.75 AC

LOT COVERAGE	118,794 SF	100%
BUILDING AREA	51,962 SF	43.7%
IMPERVIOUS AREA	38,116 SF	32.1%
PERVIOUS AREA	7,524 SF	06.3%
CANAL AREA	21,252 SF	17.9%

PARKING	REQUIRED	PROVIDED
STANDARD	415	557
ACCESSIBLE (7% OF PARKING REQ.)	29	14
BICYCLE (5% OF PARKING REQ.)	44	35

*PARKING SPACE PROVIDED IN PARKING GARAGE. THIS DEVELOPMENT UTILIZES A SHARED PARKING FACTOR OF 0.71 OUT LIKELY (IN 000), THEREFORE PARKING PROVIDED IS 395.

PARKING CALCULATION
RESIDENTIAL:
WORKAME: 1 SPACE PER DWELLING UNIT = 1 SP X 29 DU = 29 SPACES
STUDIO: 1 SPACE PER DWELLING UNIT = 1 SP X 20 DU = 20 SPACES
1 BED 1 BATH: 1.25 SPACES PER DWELLING UNIT = 1.25 SP X 98 DU = 175 SPACES
2 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 198 DU = 338 SPACES
3 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 47 DU = 82 SPACES

COMMERCIAL:
RETAIL: 1 SPACE PER 300 SQUARE FEET = 1 SP/300 SF X 10,000 SF = 33 SPACES
RESTAURANT: 1 SPACE PER 60 SQUARE FEET OF GSA** = 1 SP/60 SF X 12,500 SF = 208 SPACES
OUTDOOR SEATING: 1 SPACE PER 60 SQUARE FEET OF GSA** = 1 SP/60 SF X 8,000 SF = 133 SPACES
OFFICE: 1 SPACE PER 150 SQUARE FEET = 1 SP/150 SF X 3,000 SF = 20 SPACES

LOADING	REQUIRED	PROVIDED

LOADING SPACES ARE PROVIDED IN PARKING GARAGE. THE DIMENSION OF THE LOADING AREAS ARE 30'X12'.

BUILDING HEIGHT	REQUIRED	PROVIDED
	N.A.	137'-0"

BUILDING SETBACKS	REQUIRED	PROVIDED
BRYAN RD - FUTURE RIGHT-OF-WAY	10'	13'
NW 1ST ST	10'	15'
C-10 CANAL	10'	10'
DANIA BEACH BLVD	10'	10'

VERTICAL DATUM
ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
BENCHMARK USED: BROWARD COUNTY ENGINEERING DIVISION BENCHMARK NO. 2041, ELEVATION 12.83 (NGVD29). 1.87 CONVERSION = 11.33 (NAVD88) OF BROWARD COUNTY, FLORIDA.

FLOOD ZONE
AE: WITH A BASE FLOOD ELEVATION: 6.0' (NAVD88)
X WITH A BASE FLOOD ELEVATION: N/A
AE: WITH A BASE FLOOD ELEVATION: 4.0' (NAVD88)
COMMUNITY NO: 12086H PANEL NUMBER: 0147, SUFFIX H, AS LAST REVISED IN AUGUST 18, 2014.

AH: WITH A BASE FLOOD ELEVATION: 6.0' (NAVD88)
X WITH A BASE FLOOD ELEVATIONS: N/A
COMMUNITY NO: 12086H PANEL NUMBER: 0147, SUFFIX J, AS PRELIMINARY DECEMBER 31, 2019.

LEGAL DESCRIPTION - NORTH BUILDING

ALL OF PARCEL A, BRYAN ROAD WAREHOUSES, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, TOGETHER WITH A 40 FOOT STRIP OF LAND LYING ADJACENT TO AND CONTIGUOUS WITH THE EASTERLY BOUNDARY OF SAID PARCEL A.

NOTES:
1. SIGNAGE BY SEPARATE PERMIT
2. REFER TO DEVELOPMENT GUIDELINES AND PMUD-SL ORDINANCE AND MASTER DEVELOPMENT PLAN.
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CALL 48 HOURS BEFORE YOU DIG
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SUNSHINE STATE ONE CALL OF FLORIDA INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
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PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL
JACOB B. LARSON, P.E.
FLORIDA LICENSE NUMBER 83357
DATE: ____

KHA PROJECT 147706000
DATE
DATE
SCALE AS SHOWN
DESIGNED BY ____
DRAWN BY ____
CHECKED BY ____

SITE PLAN

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-100

Kimley»Horn

APPENDIX B: TURNING MOVEMENT VOLUME DATA

WEEKDAY AM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS							NET NEW EXTERNAL TRIPS		
		Land Use	ITE Edition	ITE Code	Scale	ITE Units	ITE Rate/Forumla	R2	In	Out	Total
GROUP 1	1	General Commercial	10	820	638.287	ksf	269		191	78	269
	2	General Office Building	10	710	506	ksf	442		402	40	442
	3	Mid-Rise Apartment	10	221	600	DU	192		48	144	192
	4	High-Rise Apartment	10	222	400	DU	121		28	93	121
	5	Hotel	10	310	350	Room	138		84	54	138
	6	Drive-In Bank	10	912	7	ksf	35		23	12	35
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
									776	421	1,197

ITE Land Use Code	Rate or Equation
820	Y=0.5*(X)+151.78
710	Y=0.94*(X)+26.49
221	LN(Y) = 0.98*LN(X)+-0.98
222	Y=0.28*(X)+12.86
310	Y=0.5*(X)+-5.34
912	Y=9.5(X)

WEEKDAY PM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS							NET NEW EXTERNAL TRIPS		
		Land Use	ITE Edition	ITE Code	Scale	ITE Units	ITE Rate/Forumla	R2	In	Out	Total
GROUP 2	1	General Commercial	10	820	638.287	ksf	1126		520	606	1,126
	2	General Office Building	10	710	506	ksf	407		23	384	407
	3	Mid-Rise Apartment	10	221	600	DU	123		89	34	123
	4	High-Rise Apartment	10	222	400	DU	73		52	21	73
	5	Hotel	10	310	350	Room	190		97	93	190
	6	Drive-In Bank	10	912	7	ksf	64		32	32	64
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
									813	1,170	1,983

ITE Land Use Code	Rate or Equation
820	LN(Y) = 0.74*LN(X)+2.89
710	LN(Y) = 0.95*LN(X)+0.36
221	LN(Y) = 0.96*LN(X)+-0.63
222	Y=0.34*(X)+8.56
310	Y=0.75*(X)+-26.02
912	Y=20.45(X)

Number	North	South	East	West
1		Bryan Rd	Old Griffin Rd	Old Griffin Rd
2	Bryan Rd	Bryan Rd	NW 1st	
3	Bryan Rd		Stirling Rd	Stirling Rd

Turning Movement Count
60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
		1	133		52						277	33		
		2		63	21		171					23		23
		3				48		161	219	17			39	46

#1

		0	0	0	
	0				0
	0				0
I	0.35				0.04 I
		0.28	0	0.11	
		o		o	

#2

			I		
		0.1	0.22	0	
	0				0.03 I
	0				0
	0				0.03 I
		0	0.15	0.05	
			o	o	

#3

		o		o	
		0.31	0	0.06	
I	0.27				0.05 I
o	0.04				0.05 I
	0				0
		0	0	0	

AM NET NEW EXTERNAL TRIPS		
In	Out	Total
191	78	269
402	40	442
48	144	192
28	93	121
84	54	138
23	12	35
776	421	1,197

Number	North	South	East	West
1		Bryan Rd	Old Griffin Rd	Old Griffin Rd
2	Bryan Rd	Bryan Rd	NW 1st	
3	Bryan Rd		Stirling Rd	Stirling Rd

Turning Movement Count
60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
		1	536		133						299	35		
		2		176	59		179					24		24
		3				64		380	247	47			41	63

#1

		0	0	0
	0			0
	0			0
i	0.35			0.04 i
		0.28	0	0.11
		o		o

#2

			i	
		0.1	0.22	0
	0			0.03 i
	0			0
	0			0.03 i
		0	0.15	0.05
			o	o

#3

		o		o
		0.31	0	0.06
i	0.27			0.05 i
o	0.04			0.05 i
	0			0
		0	0	0

PM NET NEW EXTERNAL TRIPS

In	Out	Total
520	606	1,126
73	384	457
89	34	123
52	21	73
67	33	100
32	32	64
813	1,170	1,983

Traf Tech
ENGINEERING, INC.

NEW PROJECT TRAFFIC ASSIGNMENT
AM & (PM) New Peak Hour Trips

FIGURE 4
150 S. Bryan Road
Dania Beach, Florida

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach
Control: Signalized

Project ID: 19-03588-001
Date: 9/12/2019

Total

NS/EW Streets:	Bryan Rd				Bryan Rd				Stirling Rd				Stirling Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	15	0	29	0	30	174	0	0	0	154	9	0	411
7:15 AM	0	0	0	0	10	0	25	0	23	206	0	3	0	181	8	0	456
7:30 AM	0	0	0	0	17	1	34	0	29	171	0	0	0	201	12	0	465
7:45 AM	0	0	0	0	25	0	34	1	29	234	0	0	0	209	16	0	548
8:00 AM	0	0	0	0	19	0	45	1	32	217	0	3	0	175	16	0	508
8:15 AM	0	0	0	0	10	0	23	0	36	251	0	0	0	201	10	0	531
8:30 AM	0	0	0	0	21	0	29	0	32	240	0	1	0	258	13	0	594
8:45 AM	0	0	0	0	24	0	21	0	31	243	0	1	0	230	12	0	562
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	141	1	240	2	242	1736	0	8	0	1609	96	0	4075
APPROACH %'s :					36.72%	0.26%	62.50%	0.52%	12.19%	87.41%	0.00%	0.40%	0.00%	94.37%	5.63%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	74	0	118	1	131	951	0	5	0	864	51	0	2195
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.771	0.000	0.656	0.250	0.910	0.947	0.000	0.417	0.000	0.837	0.797	0.000	0.924
					0.742				0.947				0.844				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	40	0	26	0	24	225	0	0	0	159	15	0	489
4:15 PM	0	0	0	0	39	0	67	0	23	235	0	0	0	391	19	0	774
4:30 PM	0	0	0	0	40	0	55	1	17	208	0	1	0	311	12	0	645
4:45 PM	0	0	0	0	36	0	43	0	19	248	0	0	0	295	17	0	658
5:00 PM	0	0	0	0	37	0	60	0	36	263	0	0	0	353	19	0	768
5:15 PM	0	0	0	0	42	0	48	2	21	216	0	1	0	301	21	0	652
5:30 PM	0	0	0	0	36	0	51	2	31	239	0	2	0	291	19	0	671
5:45 PM	0	0	0	0	59	0	61	1	17	236	0	3	0	231	13	1	622
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	329	0	411	6	188	1870	0	7	0	2332	135	1	5279
APPROACH %'s :					44.10%	0.00%	55.09%	0.80%	9.10%	90.56%	0.00%	0.34%	0.00%	94.49%	5.47%	0.04%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	0	0	0	152	0	225	1	95	954	0	1	0	1350	67	0	2845
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.950	0.000	0.840	0.250	0.660	0.907	0.000	0.250	0.000	0.863	0.882	0.000	0.919
					0.892				0.878				0.864				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach
Control: Signalized

Project ID: 19-03588-001
Date: 9/12/2019

Cars

NS/EW Streets:	Bryan Rd				Bryan Rd				Stirling Rd				Stirling Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	14	0	27	0	29	170	0	0	0	148	7	0	395
7:15 AM	0	0	0	0	10	0	23	0	23	201	0	3	0	171	8	0	439
7:30 AM	0	0	0	0	17	1	34	0	29	164	0	0	0	195	11	0	451
7:45 AM	0	0	0	0	24	0	33	1	27	228	0	0	0	199	16	0	528
8:00 AM	0	0	0	0	19	0	44	1	31	208	0	3	0	165	16	0	487
8:15 AM	0	0	0	0	8	0	21	0	35	238	0	0	0	194	10	0	506
8:30 AM	0	0	0	0	18	0	25	0	30	226	0	1	0	244	12	0	556
8:45 AM	0	0	0	0	22	0	20	0	31	229	0	1	0	222	11	0	536
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	132	1	227	2	235	1664	0	8	0	1538	91	0	3898
APPROACH %'s :					36.46%	0.28%	62.71%	0.55%	12.32%	87.26%	0.00%	0.42%	0.00%	94.41%	5.59%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	67	0	110	1	127	901	0	5	0	825	49	0	2085
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.761	0.000	0.625	0.250	0.907	0.946	0.000	0.417	0.000	0.845	0.766	0.000	0.938
					0.695				0.946				0.854				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	40	0	24	0	23	218	0	0	0	146	15	0	466
4:15 PM	0	0	0	0	38	0	66	0	21	230	0	0	0	382	18	0	755
4:30 PM	0	0	0	0	38	0	52	1	16	205	0	1	0	300	11	0	624
4:45 PM	0	0	0	0	35	0	40	0	17	245	0	0	0	286	15	0	638
5:00 PM	0	0	0	0	36	0	58	0	35	257	0	0	0	343	18	0	747
5:15 PM	0	0	0	0	42	0	47	2	21	208	0	1	0	293	20	0	634
5:30 PM	0	0	0	0	35	0	49	2	29	237	0	2	0	289	18	0	661
5:45 PM	0	0	0	0	59	0	60	1	17	233	0	3	0	225	13	1	612
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	323	0	396	6	179	1833	0	7	0	2264	128	1	5137
APPROACH %'s :					44.55%	0.00%	54.62%	0.83%	8.87%	90.79%	0.00%	0.35%	0.00%	94.61%	5.35%	0.04%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	0	0	0	147	0	216	1	89	937	0	1	0	1311	62	0	2764
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.967	0.000	0.818	0.250	0.636	0.911	0.000	0.250	0.000	0.858	0.861	0.000	0.915
					0.875				0.879				0.858				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach
Control: Signalized

Project ID: 19-03588-001
Date: 9/12/2019

HT

NS/EW Streets:	Bryan Rd				Bryan Rd				Stirling Rd				Stirling Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	1	0	2	0	1	4	0	0	0	6	2	0	16
7:15 AM	0	0	0	0	0	0	2	0	0	5	0	0	0	10	0	0	17
7:30 AM	0	0	0	0	0	0	0	0	0	7	0	0	0	6	1	0	14
7:45 AM	0	0	0	0	1	0	1	0	2	6	0	0	0	10	0	0	20
8:00 AM	0	0	0	0	0	0	1	0	1	9	0	0	0	10	0	0	21
8:15 AM	0	0	0	0	2	0	2	0	1	13	0	0	0	7	0	0	25
8:30 AM	0	0	0	0	3	0	4	0	2	14	0	0	0	14	1	0	38
8:45 AM	0	0	0	0	2	0	1	0	0	14	0	0	0	8	1	0	26
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	9	0	13	0	7	72	0	0	0	71	5	0	177
APPROACH %'s :					40.91%	0.00%	59.09%	0.00%	8.86%	91.14%	0.00%	0.00%	0.00%	93.42%	6.58%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	7	0	8	0	4	50	0	0	0	39	2	0	110
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.583	0.000	0.500	0.000	0.500	0.893	0.000	0.000	0.000	0.696	0.500	0.000	0.724
					0.536				0.844				0.683				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	2	0	1	7	0	0	0	13	0	0	23
4:15 PM	0	0	0	0	1	0	1	0	2	5	0	0	0	9	1	0	19
4:30 PM	0	0	0	0	2	0	3	0	1	3	0	0	0	11	1	0	21
4:45 PM	0	0	0	0	1	0	3	0	2	3	0	0	0	9	2	0	20
5:00 PM	0	0	0	0	1	0	2	0	1	6	0	0	0	10	1	0	21
5:15 PM	0	0	0	0	0	0	1	0	0	8	0	0	0	8	1	0	18
5:30 PM	0	0	0	0	1	0	2	0	2	2	0	0	0	2	1	0	10
5:45 PM	0	0	0	0	0	0	1	0	0	3	0	0	0	6	0	0	10
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	6	0	15	0	9	37	0	0	0	68	7	0	142
APPROACH %'s :					28.57%	0.00%	71.43%	0.00%	19.57%	80.43%	0.00%	0.00%	0.00%	90.67%	9.33%	0.00%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	0	0	0	5	0	9	0	6	17	0	0	0	39	5	0	81
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.625	0.000	0.750	0.000	0.750	0.708	0.000	0.000	0.000	0.886	0.625	0.000	0.964
					0.700				0.821				0.917				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach
Control: Signalized

Project ID: 19-03588-001
Date: 9/12/2019

Bikes

NS/EW Streets:	Bryan Rd				Bryan Rd				Stirling Rd				Stirling Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
8:00 AM	0	0	0	0	0	0	3	0	0	0	0	0	0	3	2	0	8
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	1	0	0	0	2	0	0	0	0	1	2	0	6
8:45 AM	0	0	0	0	1	0	2	0	0	1	0	0	0	2	1	0	7
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	2	0	5	0	2	5	0	0	0	7	6	0	27
APPROACH %'s :					28.57%	0.00%	71.43%	0.00%	28.57%	71.43%	0.00%	0.00%	0.00%	53.85%	46.15%	0.00%	
PEAK HR :	00:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	2	0	5	0	2	2	0	0	0	6	5	0	22
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.500	0.000	0.417	0.000	0.250	0.500	0.000	0.000	0.000	0.500	0.625	0.000	0.688
					0.583				0.500				0.550				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	3
4:15 PM	0	0	0	0	1	0	0	0	2	0	0	0	0	2	1	0	6
4:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
5:00 PM	0	0	0	0	1	0	0	0	1	1	0	0	0	1	1	0	5
5:15 PM	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	4	0	2	0	6	1	0	0	0	8	5	0	26
APPROACH %'s :					66.67%	0.00%	33.33%	0.00%	85.71%	14.29%	0.00%	0.00%	0.00%	61.54%	38.46%	0.00%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	0	0	0	2	0	0	0	4	1	0	0	0	4	4	0	15
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.500	0.250	0.000	0.000	0.000	0.500	0.500	0.000	0.625
					0.500				0.625				0.667				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach

Project ID: 19-03588-001
Date: 9/12/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Bryan Rd		Bryan Rd		Stirling Rd		Stirling Rd		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	1	4	0	0	0	0	0	0	5
7:30 AM	2	0	0	0	0	0	0	0	2
7:45 AM	1	1	0	0	0	0	0	0	2
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	1	1	0	0	0	0	0	0	2
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	5	6	0	0	0	0	0	0	11
APPROACH %'s :	45.45%	54.55%							
PEAK HR :	**08:00 AM - 09:00 AM**								TOTAL
PEAK HR VOL :	1	1	0	0	0	0	0	0	2
PEAK HR FACTOR :	0.250	0.250							0.250
	0.250								

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	1	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	1	0	0	0	0	0	0	1
APPROACH %'s :	0.00%	100.00%							
PEAK HR :	**04:15 PM - 05:15 PM**								TOTAL
PEAK HR VOL :	0	1	0	0	0	0	0	0	1
PEAK HR FACTOR :		0.250							0.250
	0.250								

Prepared by National Data & Surveying Services

Bryan Rd & Stirling Rd

Peak Hour Turning Movement Count

ID: 19-03588-001
City: Dania Beach

Day: Thursday
Date: 09/12/2019

	PEAK HOURS	COUNT PERIODS
AM	08:00 AM - 09:00 AM	07:00 AM - 09:00 AM
NOON	NONE	NONE
PM	04:15 PM - 05:15 PM	04:00 PM - 06:00 PM

Bryan Rd — SOUTHBOUND

	Right	Through	Left	U-Turn	Departing (⇧)
AM	118	0	74	1	183
NOON	0	0	0	0	0
PM	225	0	152	1	163
	0	0	0	0	

Stirling Rd — EASTBOUND

	AM	NOON	PM	
Departing (⇦)	987	0	1576	
U-Turn	5	0	1	0
Left	131	0	95	0
Through	951	0	954	0
Right	0	0	0	0

Stirling Rd — WESTBOUND

		PM	NOON	AM
Right	0	67	0	51
Through	0	1350	0	864
Left	0	0	0	0
U-Turn	0	0	0	0
Departing (⇨)		1106	0	1025

Bryan Rd — NORTHBOUND

	Departing (⇩)	U-Turn	Left	Through	Right
		0	0	0	0
PM	0	0	0	0	0
NOON	0	0	0	0	0
AM	0	0	0	0	0

CONTROL

Signalized

	AM	NOON	PM
TEV	2195	0	2845
PHF	0.92		0.92

Cars (AM)

	Left	Through	Right
Southbound	67	0	110
Eastbound	127	901	0
Westbound	0	825	49
Northbound	0	0	0

HT (AM)

	Left	Through	Right
Southbound	7	0	8
Eastbound	4	50	0
Westbound	0	39	2
Northbound	0	0	0

Cars (NOON)

	Left	Through	Right
Southbound	N/A	N/A	N/A
Eastbound	N/A	N/A	N/A
Westbound	N/A	N/A	N/A
Northbound	N/A	N/A	N/A

HT (NOON)

	Left	Through	Right
Southbound	N/A	N/A	N/A
Eastbound	N/A	N/A	N/A
Westbound	N/A	N/A	N/A
Northbound	N/A	N/A	N/A

Cars (PM)

	Left	Through	Right
Southbound	147	0	216
Eastbound	89	937	0
Westbound	0	1311	62
Northbound	0	0	0

HT (PM)

	Left	Through	Right
Southbound	5	0	6
Eastbound	6	17	0
Westbound	0	39	5
Northbound	0	0	0

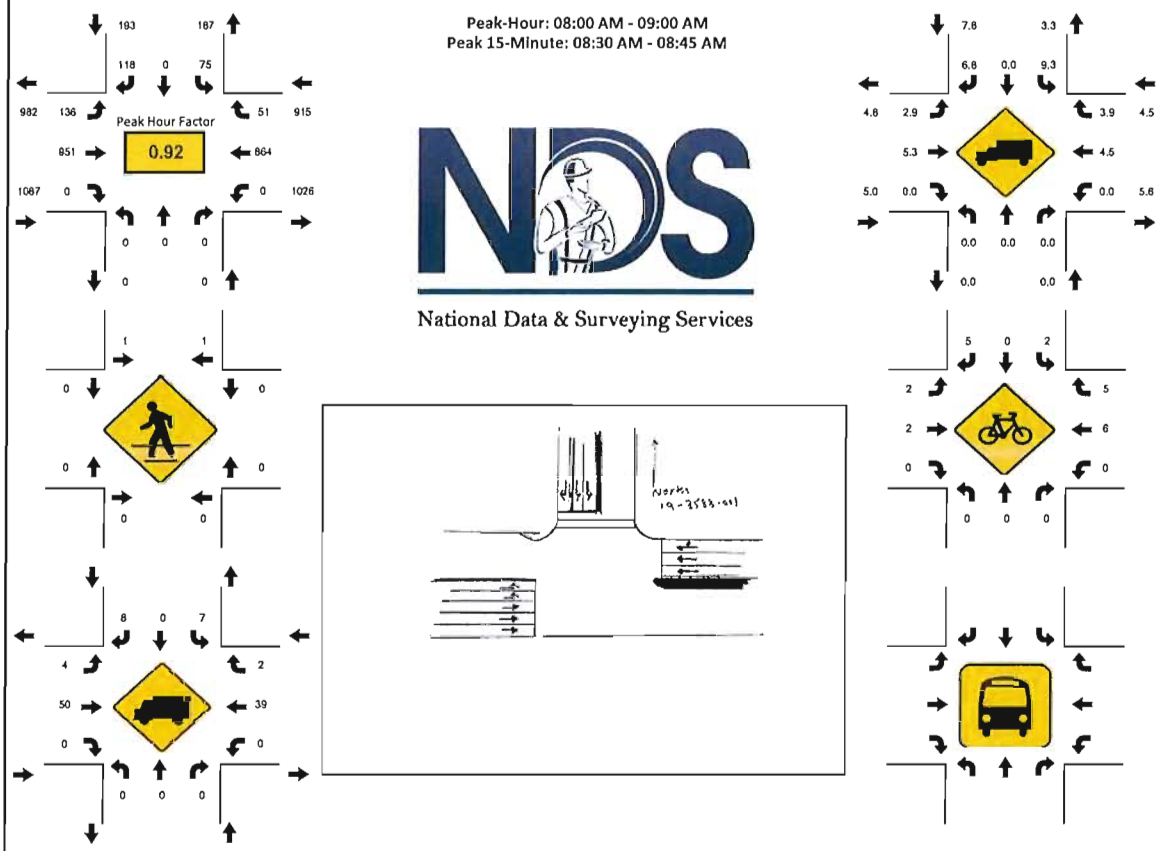
Pedestrians (Crosswalks)

Crosswalk	AM	NOON	PM
North (westbound crossing)	1	0	0
North (eastbound crossing)	1	0	1
South (eastbound crossing)	0	0	0
South (westbound crossing)	0	0	0
West (southbound crossing)	0	0	0
West (northbound crossing)	0	0	0
East (southbound crossing)	0	0	0
East (northbound crossing)	0	0	0
NW corner	0	0	0
NE corner	0	0	0
SW corner	0	0	0
SE corner	0	0	0

LOCATION: Bryan Rd & Stirling Rd
CITY/STATE: Danla Beach, FL

PROJECT ID: 19-03588-001
DATE: 09/12/2019

Peak-Hour: 08:00 AM - 09:00 AM
Peak 15-Minute: 08:30 AM - 08:45 AM

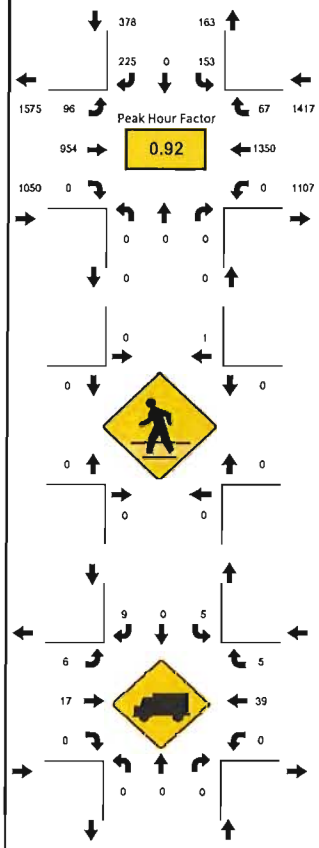


15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					Stirling Rd Eastbound					Stirling Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
07:00 AM	0	0	0	0		15	0	29	0		30	174	0	0		0	154	9	0		411	1880
07:15 AM	0	0	0	0		10	0	25	0		23	206	0	3		0	181	8	0		456	1977
07:30 AM	0	0	0	0		17	1	34	0		29	171	0	0		0	201	12	0		465	2052
07:45 AM	0	0	0	0		25	0	34	1		29	234	0	0		0	209	16	0		548	2181
08:00 AM	0	0	0	0		19	0	45	1		32	217	0	3		0	175	16	0		508	2195
08:15 AM	0	0	0	0		10	0	23	0		36	251	0	0		0	201	10	0		531	1687
08:30 AM	0	0	0	0		21	0	29	0		32	240	0	1		0	258	13	0		594	1156
08:45 AM	0	0	0	0		24	0	21	0		31	243	0	1		0	230	12	0		562	562
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	0	0	0	0		96	0	180	4		144	1004	0	12		0	1032	64	0		2536	
Heavy Trucks	0	0	0			12	0	16			8	56	0			0	56	4			152	
Pedestrians		0					8					0					0				8	
Bicycles	0	0	0			4	0	12			8	4	0			0	12	8			48	
Railroad																						
Stopped Buses																						

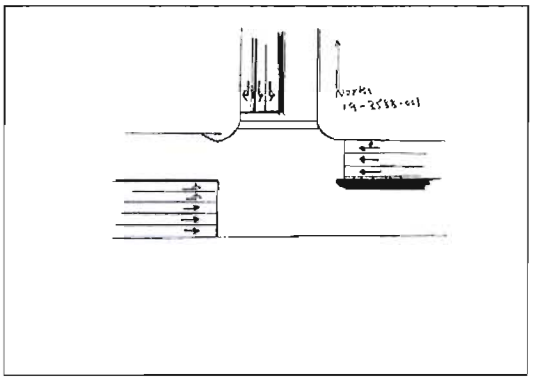
LOCATION: Bryan Rd & Stirling Rd
CITY/STATE: Dania Beach, FL

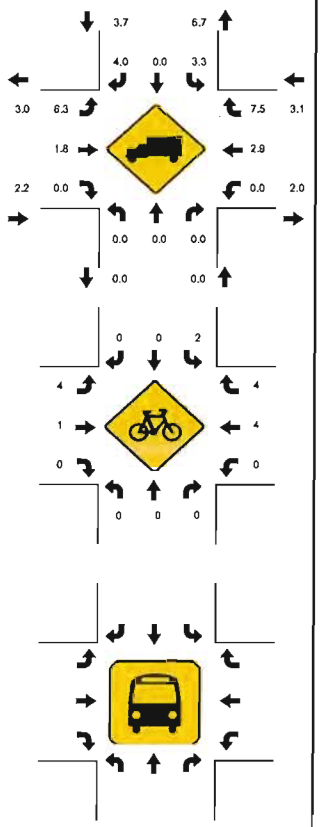
PROJECT ID: 19-03588-001
DATE: 09/12/2019

Peak-Hour: 04:15 PM - 05:15 PM
Peak 15-Minute: 04:15 PM - 04:30 PM



National Data & Surveying Services





15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					Stirling Rd Eastbound					Stirling Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	0	0	0	0		40	0	26	0		24	225	0	0		0	159	15	0		489	2566
04:15 PM	0	0	0	0		39	0	67	0		23	235	0	0		0	391	19	0		774	2845
04:30 PM	0	0	0	0		40	0	55	1		17	208	0	1		0	311	12	0		645	2723
04:45 PM	0	0	0	0		36	0	43	0		19	248	0	0		0	295	17	0		658	2749
05:00 PM	0	0	0	0		37	0	60	0		36	263	0	0		0	353	19	0		768	2713
05:15 PM	0	0	0	0		42	0	48	2		21	216	0	1		0	301	21	0		652	1945
05:30 PM	0	0	0	0		36	0	51	2		31	239	0	2		0	291	19	0		671	1293
05:45 PM	0	0	0	0		59	0	61	1		17	236	0	3		0	231	13	1		622	622

Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	
All Vehicles	0	0	0	0		160	0	268	4		144	1052	0	4		0	1564	76	0		3272
Heavy Trucks	0	0	0			8	0	12			8	24	0			0	44	8			104
Pedestrians		0					4					0					0				4
Bicycles	0	0	0			4	0	0			8	4	0			0	8	8			32
Railroad																					
Stopped Buses																					

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach
Control: 1-Way Stop (EB)

Project ID: 19-03588-002
Date: 9/12/2019

Total

NS/EW Streets:	Bryan Rd				Bryan Rd				NW 1st St				NW 1st St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	31	5	0	12	22	0	0	0	0	0	0	27	0	12	0	109
7:15 AM	0	20	14	0	21	29	0	0	0	0	0	0	22	0	22	0	128
7:30 AM	0	22	14	0	16	30	0	0	0	0	0	0	35	0	18	0	135
7:45 AM	0	42	15	0	17	55	0	0	0	0	0	0	33	0	13	0	175
8:00 AM	0	34	11	0	4	44	0	0	0	0	0	0	18	0	16	0	127
8:15 AM	0	31	20	0	9	36	0	0	0	0	0	0	23	0	16	0	135
8:30 AM	0	30	6	0	14	47	0	0	0	0	0	0	11	0	12	0	120
8:45 AM	0	25	11	0	9	53	0	0	0	0	0	0	22	0	16	0	136
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	235	96	0	102	316	0	0	0	0	0	0	191	0	125	0	1065
APPROACH %'s :	0.00%	71.00%	29.00%	0.00%	24.40%	75.60%	0.00%	0.00%					60.44%	0.00%	39.56%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	129	60	0	46	165	0	0	0	0	0	0	109	0	63	0	572
PEAK HR FACTOR :	0.000	0.768	0.750	0.000	0.676	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.779	0.000	0.875	0.000	0.817
		0.829				0.733								0.811			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	22	14	0	18	64	0	0	0	0	0	0	21	0	13	0	152
4:15 PM	0	19	18	0	20	69	0	0	0	0	0	0	28	0	19	0	173
4:30 PM	0	28	13	0	19	68	0	0	0	0	0	0	27	0	16	0	171
4:45 PM	0	22	13	0	12	88	0	0	0	0	0	0	19	0	8	0	162
5:00 PM	0	31	24	0	17	102	0	0	0	0	0	0	19	0	14	0	207
5:15 PM	0	33	19	0	15	111	0	0	0	0	0	0	22	0	12	0	212
5:30 PM	0	28	19	0	23	96	0	0	0	0	0	0	13	0	12	0	191
5:45 PM	0	26	16	0	19	87	0	0	0	0	0	0	23	0	7	0	178
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	209	136	0	143	685	0	0	0	0	0	0	172	0	101	0	1446
APPROACH %'s :	0.00%	60.58%	39.42%	0.00%	17.27%	82.73%	0.00%	0.00%					63.00%	0.00%	37.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	118	78	0	74	396	0	0	0	0	0	0	77	0	45	0	788
PEAK HR FACTOR :	0.000	0.894	0.813	0.000	0.804	0.892	0.000	0.000	0.000	0.000	0.000	0.000	0.837	0.000	0.804	0.000	0.929
		0.891				0.933								0.897			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach
Control: 1-Way Stop (EB)

Project ID: 19-03588-002
Date: 9/12/2019

Cars

NS/EW Streets:	Bryan Rd				Bryan Rd				NW 1st St				NW 1st St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	28	5	0	11	22	0	0	0	0	0	0	25	0	12	0	103
7:15 AM	0	20	14	0	21	27	0	0	0	0	0	0	22	0	21	0	125
7:30 AM	0	21	14	0	15	29	0	0	0	0	0	0	35	0	18	0	132
7:45 AM	0	39	15	0	15	53	0	0	0	0	0	0	33	0	12	0	167
8:00 AM	0	33	11	0	4	42	0	0	0	0	0	0	18	0	16	0	124
8:15 AM	0	29	20	0	7	33	0	0	0	0	0	0	22	0	15	0	126
8:30 AM	0	28	6	0	14	44	0	0	0	0	0	0	11	0	12	0	115
8:45 AM	0	24	9	0	8	49	0	0	0	0	0	0	21	0	15	0	126
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	222	94	0	95	299	0	0	0	0	0	0	187	0	121	0	1018
APPROACH %'s :	0.00%	70.25%	29.75%	0.00%	24.11%	75.89%	0.00%	0.00%					60.71%	0.00%	39.29%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	122	60	0	41	157	0	0	0	0	0	0	108	0	61	0	549
PEAK HR FACTOR :	0.00	0.782	0.750	0.000	0.683	0.741	0.000	0.000	0.000	0.000	0.000	0.000	0.771	0.000	0.847	0.000	0.822
		0.843				0.728								0.797			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	21	14	0	17	58	0	0	0	0	0	0	21	0	13	0	144
4:15 PM	0	16	16	0	19	67	0	0	0	0	0	0	28	0	18	0	164
4:30 PM	0	27	12	0	17	67	0	0	0	0	0	0	24	0	14	0	161
4:45 PM	0	21	13	0	12	82	0	0	0	0	0	0	18	0	8	0	154
5:00 PM	0	31	24	0	16	101	0	0	0	0	0	0	19	0	13	0	204
5:15 PM	0	32	18	0	15	111	0	0	0	0	0	0	22	0	12	0	210
5:30 PM	0	25	19	0	22	95	0	0	0	0	0	0	12	0	11	0	184
5:45 PM	0	26	16	0	19	87	0	0	0	0	0	0	23	0	7	0	178
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	199	132	0	137	668	0	0	0	0	0	0	167	0	96	0	1399
APPROACH %'s :	0.00%	60.12%	39.88%	0.00%	17.02%	82.98%	0.00%	0.00%					63.50%	0.00%	36.50%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	114	77	0	72	394	0	0	0	0	0	0	76	0	43	0	776
PEAK HR FACTOR :	0.00	0.891	0.802	0.000	0.818	0.887	0.000	0.000	0.000	0.000	0.000	0.000	0.826	0.000	0.827	0.000	0.924
		0.868				0.925								0.875			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach
Control: 1-Way Stop (EB)

Project ID: 19-03588-002
Date: 9/12/2019

HT

NS/EW Streets:	Bryan Rd				Bryan Rd				NW 1st St				NW 1st St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	3	0	0	1	0	0	0	0	0	0	0	2	0	0	0	6
7:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	3
7:30 AM	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3
7:45 AM	0	3	0	0	2	2	0	0	0	0	0	0	0	0	1	0	8
8:00 AM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
8:15 AM	0	2	0	0	2	3	0	0	0	0	0	0	1	0	1	0	9
8:30 AM	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	5
8:45 AM	0	1	2	0	1	4	0	0	0	0	0	0	1	0	1	0	10
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	13	2	0	7	17	0	0	0	0	0	0	4	0	4	0	47
APPROACH %'s :	0.00%	86.67%	13.33%	0.00%	29.17%	70.83%	0.00%	0.00%					50.00%	0.00%	50.00%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	7	0	0	5	8	0	0	0	0	0	0	1	0	2	0	23
PEAK HR FACTOR :	0.000	0.583	0.000	0.000	0.625	0.667	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.500	0.000	0.639
		0.583				0.650								0.375			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	1	0	0	1	6	0	0	0	0	0	0	0	0	0	0	8
4:15 PM	0	3	2	0	1	2	0	0	0	0	0	0	0	0	1	0	9
4:30 PM	0	1	1	0	2	1	0	0	0	0	0	0	3	0	2	0	10
4:45 PM	0	1	0	0	0	6	0	0	0	0	0	0	1	0	0	0	8
5:00 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	3
5:15 PM	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	3	0	0	1	1	0	0	0	0	0	0	1	0	1	0	7
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	10	4	0	6	17	0	0	0	0	0	0	5	0	S	0	47
APPROACH %'s :	0.00%	71.43%	28.57%	0.00%	26.09%	73.91%	0.00%	0.00%					50.00%	0.00%	50.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	4	1	0	2	2	0	0	0	0	0	0	1	0	2	0	12
PEAK HR FACTOR :	0.00	0.333	0.250	0.000	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.500	0.000	0.429
		0.417				0.500								0.375			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach
Control: 1-Way Stop (EB)

Project ID: 19-03588-002
Date: 9/12/2019

Bikes

NS/EW Streets:	Bryan Rd				Bryan Rd				NW 1st St				NW 1st St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2
8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	3	0	0	1	2	0	0	0	0	0	0	1	0	2	0	9
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	33.33%	66.67%	0.00%	0.00%					33.33%	0.00%	66.67%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	2	0	0	0	0	0	0	0	0	0	0	1	0	2	0	5
PEAK HR FACTOR :	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.625
	0.500												0.375				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	3	0	0	4	2	0	0	0	0	0	0	0	0	0	0	9
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%									
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250
					0.250												

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach

Project ID: 19-03588-002
Date: 9/12/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Bryan Rd		Bryan Rd		NW 1st St		NW 1st St		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	1	0	0	0	1
7:45 AM	0	0	0	1	0	2	0	0	3
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	1	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	1	0	1	1	2	0	0	5
APPROACH %'s :	0.00%	100.00%	0.00%	100.00%	33.33%	66.67%			
PEAK HR :	**07:30 AM - 08:30 AM**								TOTAL
PEAK HR VOL :	0	0	0	1	1	2	0	0	4
PEAK HR FACTOR :				0.250	0.250	0.250			0.333
			0.250		0.375				

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	2	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	1	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	2	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	0	0	0	2	2	0	0	5
APPROACH %'s :	100.00%	0.00%			50.00%	50.00%			
PEAK HR :	**05:00 PM - 06:00 PM**								TOTAL
PEAK HR VOL :	1	0	0	0	2	0	0	0	3
PEAK HR FACTOR :	0.250				0.250				0.375
		0.250			0.250				

Prepared by National Data & Surveying Services

Bryan Rd & NW 1st St

Peak Hour Turning Movement Count

ID: 19-03588-002
City: Dania Beach

Day: Thursday
Date: 09/12/2019

PEAK HOURS		COUNT PERIODS
07:30 AM - 08:30 AM		07:00 AM - 09:00 AM
NONE		NONE
05:00 PM - 06:00 PM		04:00 PM - 06:00 PM

Bryan Rd — SOUTHBOUND

AM	0	165	46	0	192	AM
NOON	0	0	0	0	0	NOON
PM	0	396	74	0	163	PM

NW 1st St — EASTBOUND

AM	NOON	PM
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
AM	NOON	PM

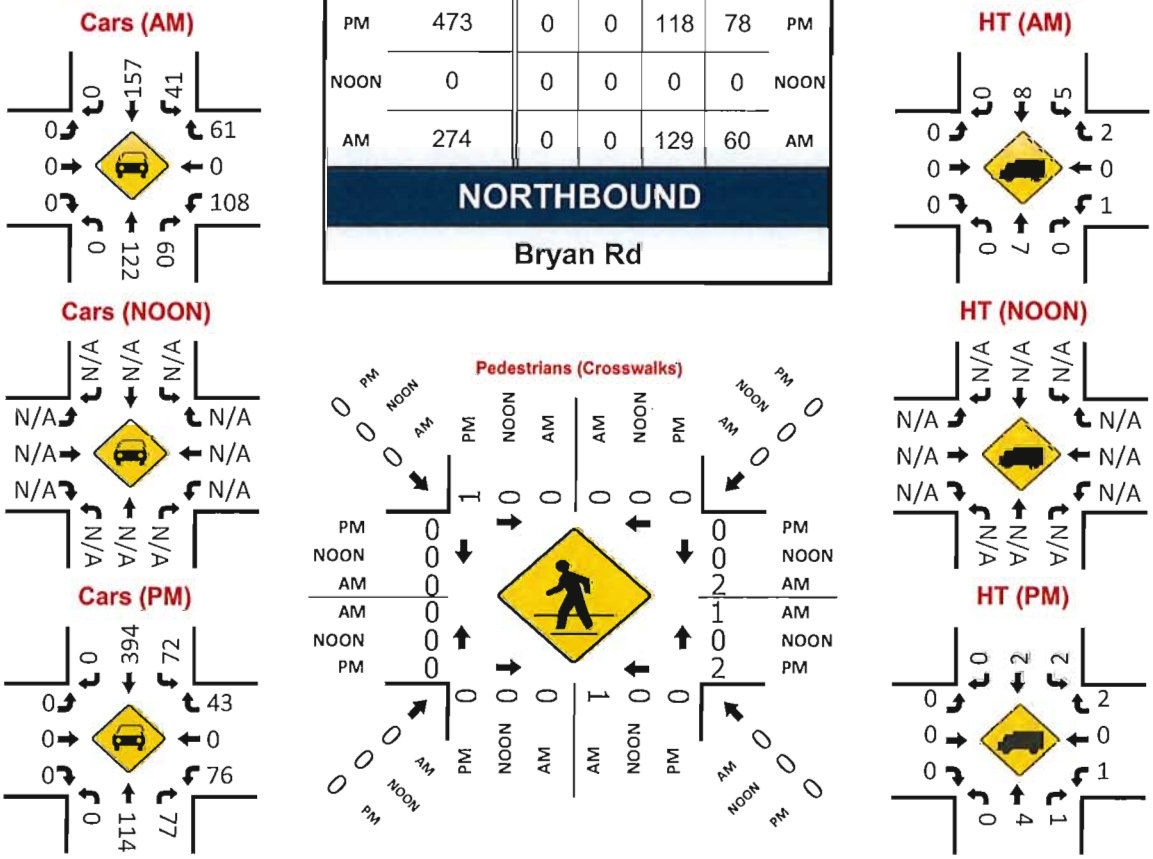
NW 1st St — WESTBOUND

PM	NOON	AM
45	0	63
0	0	0
77	0	109
0	0	0
152	0	106
PM	NOON	AM

Bryan Rd — NORTHBOUND

PM	473	0	0	118	78	PM
NOON	0	0	0	0	0	NOON
AM	274	0	0	129	60	AM

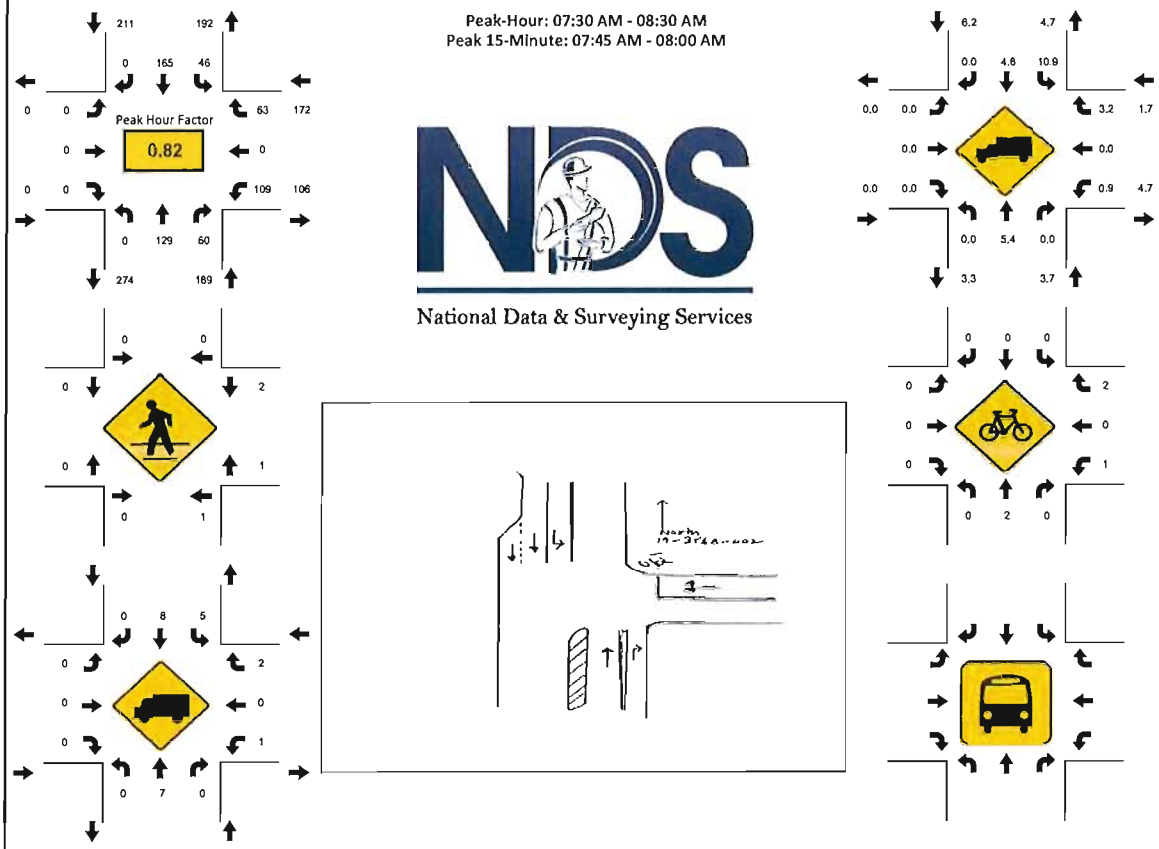
CONTROL			
1-Way Stop (EB)			
TEV	572	0	788
	AM	NOON	PM
PHF	0.82		0.93



LOCATION: Bryan Rd & NW 1st St
CITY/STATE: Dania Beach, FL

PROJECT ID: 19-03588-002
DATE: 09/12/2019

Peak-Hour: 07:30 AM - 08:30 AM
Peak 15-Minute: 07:45 AM - 08:00 AM

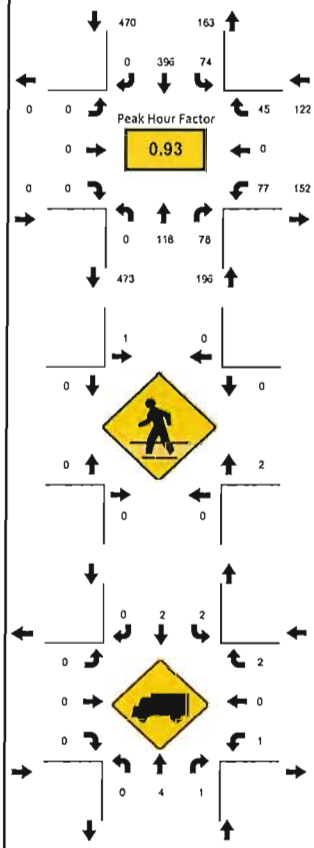


15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					NW 1st St Eastbound					NW 1st St Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
07:00 AM	0	31	5	0		12	22	0	0		0	0	0	0		27	0	12	0		109	547
07:15 AM	0	20	14	0		21	29	0	0		0	0	0	0		22	0	22	0		128	565
07:30 AM	0	22	14	0		16	30	0	0		0	0	0	0		35	0	18	0		135	572
07:45 AM	0	42	15	0		17	55	0	0		0	0	0	0		33	0	13	0		175	557
08:00 AM	0	34	11	0		4	44	0	0		0	0	0	0		18	0	16	0		127	518
08:15 AM	0	31	20	0		9	36	0	0		0	0	0	0		23	0	16	0		135	391
08:30 AM	0	30	6	0		14	47	0	0		0	0	0	0		11	0	12	0		120	256
08:45 AM	0	25	11	0		9	53	0	0		0	0	0	0		22	0	16	0		136	136
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
All Vehicles	0	168	80	0		68	220	0	0		0	0	0	0		140	0	72	0		748	
Heavy Trucks	0	12	0			8	12	0			0	0	0			4	0	4			40	
Pedestrians		4					0					0					6				12	
Bicycles	0	4	0			0	0	0			0	0	0			4	0	8			16	
Railroad																						
Stopped Buses																						

LOCATION: Bryan Rd & NW 1st St
CITY/STATE: Dania Beach, FL

PROJECT ID: 19-03588-002
DATE: 09/12/2019

Peak-Hour: 05:00 PM - 06:00 PM
Peak 15-Minute: 05:15 PM - 05:30 PM



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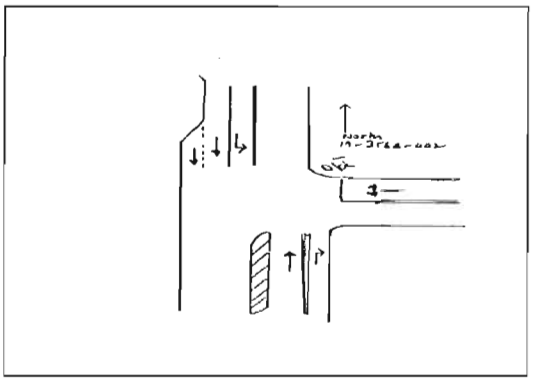
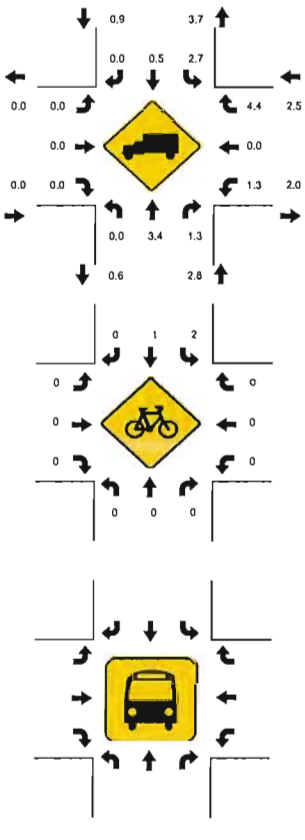




15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					NW 1st St Eastbound					NW 1st St Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	0	22	14	0		18	64	0	0		0	0	0	0		21	0	13	0		152	658
04:15 PM	0	19	18	0		20	69	0	0		0	0	0	0		28	0	19	0		173	713
04:30 PM	0	28	13	0		19	68	0	0		0	0	0	0		27	0	16	0		171	752
04:45 PM	0	22	13	0		12	88	0	0		0	0	0	0		19	0	8	0		162	772
05:00 PM	0	31	24	0		17	102	0	0		0	0	0	0		19	0	14	0		207	788
05:15 PM	0	33	19	0		15	111	0	0		0	0	0	0		22	0	12	0		212	581
05:30 PM	0	28	19	0		23	96	0	0		0	0	0	0		13	0	12	0		191	369
05:45 PM	0	26	16	0		19	87	0	0		0	0	0	0		23	0	7	0		178	178
Peak 15-Min Flowrates	*Northbound*					*Southbound*					*Eastbound*					*Westbound*					Total	
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
All Vehicles	0	132	96	0		92	444	0	0		0	0	0	0		92	0	56	0		912	
Heavy Trucks	0	12	4			4	4	0			0	0	0			4	0	4			32	
Pedestrians		0					4					0					8				12	
Bicycles	0	0	0			8	4	0			0	0	0			0	0	0			12	
Railroad																						
Stopped Buses																						

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Dania Beach
Control: 1-Way Stop (NB)

Project ID: 19-03588-003
Date: 9/12/2019

Total

NS/EW Streets:	Bryan Rd				Bryan Rd				Old Griffin Rd				Old Griffin Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	28	0	3	0	0	0	0	0	0	52	57	0	6	27	0	0	173
7:15 AM	27	0	2	0	0	0	0	0	0	37	47	0	2	34	0	0	149
7:30 AM	29	0	2	0	0	0	0	0	0	50	48	0	7	42	0	0	178
7:45 AM	24	0	12	0	0	0	0	0	0	66	78	0	8	59	0	0	247
8:00 AM	29	0	6	0	0	0	0	0	0	53	38	0	12	53	0	0	191
8:15 AM	22	0	11	0	0	0	0	0	0	36	39	0	12	44	0	0	164
8:30 AM	20	0	8	0	0	0	0	0	0	56	64	0	7	36	0	0	191
8:45 AM	30	0	14	0	0	0	0	0	0	44	51	0	9	46	0	0	194
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	209	0	58	0	0	0	0	0	0	394	422	0	63	341	0	0	1487
APPROACH %'s :	78.28%	0.00%	21.72%	0.00%					0.00%	48.28%	51.72%	0.00%	15.59%	84.41%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	95	0	37	0	0	0	0	0	0	211	219	0	39	192	0	0	793
PEAK HR FACTOR :	0.819	0.000	0.771	0.000	0.000	0.000	0.000	0.000	0.000	0.799	0.702	0.000	0.813	0.814	0.000	0.000	0.803
	0.917								0.747				0.862				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	34	0	7	0	0	0	0	0	0	70	61	0	6	25	0	0	203
4:15 PM	39	0	11	0	0	0	0	0	0	95	66	0	6	32	0	0	249
4:30 PM	51	0	7	0	0	0	0	0	0	56	58	0	15	63	0	0	250
4:45 PM	34	0	5	0	0	0	0	0	0	69	61	0	13	54	0	0	236
5:00 PM	41	0	10	0	0	0	0	0	0	82	75	0	14	61	0	0	283
5:15 PM	40	0	7	0	0	0	0	0	0	70	97	0	17	50	0	0	281
5:30 PM	37	0	10	0	0	0	0	0	0	86	97	1	14	52	0	0	297
5:45 PM	24	0	11	0	0	0	0	0	0	63	88	0	6	43	0	0	235
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	300	0	68	0	0	0	0	0	0	591	603	1	91	380	0	0	2034
APPROACH %'s :	81.52%	0.00%	18.48%	0.00%					0.00%	49.46%	50.46%	0.08%	19.32%	80.68%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	152	0	32	0	0	0	0	0	0	307	330	1	58	217	0	0	1097
PEAK HR FACTOR :	0.927	0.000	0.800	0.000	0.000	0.000	0.000	0.000	0.000	0.892	0.851	0.250	0.853	0.889	0.000	0.000	0.923
	0.902								0.867				0.917				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Danla Beach
Control: 1-Way Stop (NB)

Project ID: 19-03588-003
Date: 9/12/2019

Cars

NS/EW Streets:	Bryan Rd				Bryan Rd				Old Griffin Rd				Old Griffin Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	26	0	1	0	0	0	0	0	0	50	53	0	6	26	0	0	162
7:15 AM	22	0	2	0	0	0	0	0	0	35	44	0	2	33	0	0	138
7:30 AM	27	0	2	0	0	0	0	0	0	50	45	0	7	41	0	0	172
7:45 AM	23	0	12	0	0	0	0	0	0	63	73	0	8	57	0	0	236
8:00 AM	28	0	6	0	0	0	0	0	0	53	36	0	11	53	0	0	187
8:15 AM	21	0	8	0	0	0	0	0	0	36	33	0	12	43	0	0	153
8:30 AM	18	0	7	0	0	0	0	0	0	55	58	0	7	36	0	0	181
8:45 AM	28	0	14	0	0	0	0	0	0	42	50	0	9	46	0	0	189
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	193	0	52	0	0	0	0	0	0	384	392	0	62	335	0	0	1418
APPROACH %'s :	78.78%	0.00%	21.22%	0.00%					0.00%	49.48%	50.52%	0.00%	15.62%	84.38%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	90	0	33	0	0	0	0	0	0	207	200	0	38	189	0	0	757
PEAK HR FACTOR :	0.80	0.000	0.688	0.000	0.000	0.000	0.000	0.000	0.000	0.821	0.685	0.000	0.792	0.829	0.000	0.000	0.802
		0.879								0.748				0.873			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	32	0	7	0	0	0	0	0	0	69	56	0	6	24	0	0	194
4:15 PM	37	0	10	0	0	0	0	0	0	95	65	0	6	30	0	0	243
4:30 PM	44	0	7	0	0	0	0	0	0	56	54	0	14	62	0	0	237
4:45 PM	33	0	5	0	0	0	0	0	0	69	60	0	13	52	0	0	232
5:00 PM	40	0	10	0	0	0	0	0	0	81	74	0	14	60	0	0	279
5:15 PM	39	0	6	0	0	0	0	0	0	70	96	0	17	48	0	0	276
5:30 PM	35	0	10	0	0	0	0	0	0	85	95	1	14	51	0	0	291
5:45 PM	24	0	11	0	0	0	0	0	0	62	88	0	4	43	0	0	232
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	284	0	66	0	0	0	0	0	0	587	588	1	88	370	0	0	1984
APPROACH %'s :	81.14%	0.00%	18.86%	0.00%					0.00%	49.91%	50.00%	0.09%	19.21%	80.79%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	147	0	31	0	0	0	0	0	0	305	325	1	58	211	0	0	1078
PEAK HR FACTOR :	0.92	0.000	0.775	0.000	0.000	0.000	0.000	0.000	0.000	0.897	0.846	0.250	0.853	0.879	0.000	0.000	0.926
		0.890								0.872				0.909			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Dania Beach
Control: 1-Way Stop (NB)

Project ID: 19-03588-003
Date: 9/12/2019

HT

NS/EW Streets:	Bryan Rd				Bryan Rd				Old Griffin Rd				Old Griffin Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	2	0	2	0	0	0	0	0	0	2	4	0	0	1	0	0	11
7:15 AM	5	0	0	0	0	0	0	0	0	2	3	0	0	1	0	0	11
7:30 AM	2	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	6
7:45 AM	1	0	0	0	0	0	0	0	0	3	5	0	0	2	0	0	11
8:00 AM	1	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	4
8:15 AM	1	0	3	0	0	0	0	0	0	0	6	0	0	1	0	0	11
8:30 AM	2	0	1	0	0	0	0	0	0	1	6	0	0	0	0	0	10
8:45 AM	2	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	5
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	16	0	6	0	0	0	0	0	0	10	30	0	1	6	0	0	69
APPROACH %'s :	72.73%	0.00%	27.27%	0.00%					0.00%	25.00%	75.00%	0.00%	14.29%	85.71%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	5	0	4	0	0	0	0	0	0	4	19	0	1	3	0	0	36
PEAK HR FACTOR :	0.625	0.000	0.333	0.000	0.000	0.000	0.000	0.000	0.000	0.333	0.792	0.000	0.250	0.375	0.000	0.000	0.818
	0.563								0.719				0.500				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	2	0	0	0	0	0	0	0	0	1	5	0	0	1	0	0	9
4:15 PM	2	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	6
4:30 PM	7	0	0	0	0	0	0	0	0	0	4	0	1	1	0	0	13
4:45 PM	1	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	4
5:00 PM	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	4
5:15 PM	1	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	5
5:30 PM	2	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	6
5:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	3
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	16	0	2	0	0	0	0	0	0	4	15	0	3	10	0	0	50
APPROACH %'s :	88.89%	0.00%	11.11%	0.00%					0.00%	21.05%	78.95%	0.00%	23.08%	76.92%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	5	0	1	0	0	0	0	0	0	2	5	0	0	6	0	0	19
PEAK HR FACTOR :	0.63	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.625	0.000	0.000	0.750	0.000	0.000	0.792
	0.750								0.583				0.750				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Dania Beach
Control: 1-Way Stop (NB)

Project ID: 19-03588-003
Date: 9/12/2019

Bikes

NS/EW Streets:	Bryan Rd				Bryan Rd				Old Griffin Rd				Old Griffin Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	1	3	0	1	1	0	0	6
APPROACH %'s :									0.00%	25.00%	75.00%	0.00%	50.00%	50.00%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.500
										0.250				0.250			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	3
4:15 PM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	3	0	2	0	0	0	0	0	0	1	0	0	0	2	0	0	8
APPROACH %'s :	60.00%	0.00%	40.00%	0.00%					0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	4
PEAK HR FACTOR :	0.25	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.500
		0.500												0.500			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Dania Beach

Project ID: 19-03588-003
Date: 9/12/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Bryan Rd		Bryan Rd		Old Griffin Rd		Old Griffin Rd		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s :									
PEAK HR :	07:45 AM - 08:45 AM								TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s :									
PEAK HR :	04:45 PM - 05:45 PM								TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

Prepared by National Data & Surveying Services

Bryan Rd & Old Griffin Rd

Peak Hour Turning Movement Count

ID: 19-03588-003
City: Dania Beach

Day: Thursday
Date: 09/12/2019

PEAK HOURS		COUNT PERIODS
07:45 AM - 08:45 AM		07:00 AM - 09:00 AM
NONE		NONE
04:45 PM - 05:45 PM		04:00 PM - 06:00 PM

Bryan Rd — SOUTHBOUND

AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	0	0	0	0	0	PM

Old Griffin Rd — EASTBOUND

AM	NOON	PM	
287	0	370	⇦
0	0	1	↶ 0
0	0	0	↑ 0
211	0	307	→ 0
219	0	330	↷ 0

Old Griffin Rd — WESTBOUND

PM	NOON	AM	
0	0	0	↰ 0
217	0	192	← 0
58	0	39	↶ 0
0	0	0	↷ 0
339	0	248	⇨

CONTROL

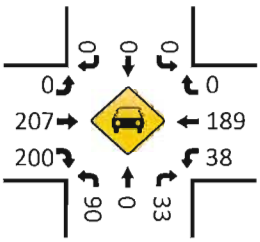
1-Way Stop (NB)

	AM	NOON	PM
TEV	793	0	1097
PHF	0.80		0.92

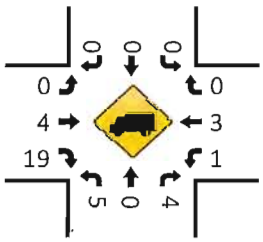
Bryan Rd — NORTHBOUND

PM	388	0	152	0	32	PM
NOON	0	0	0	0	0	NOON
AM	258	0	95	0	37	AM

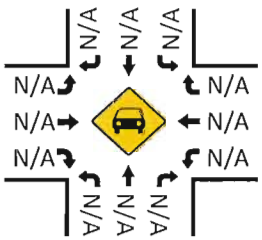
Cars (AM)



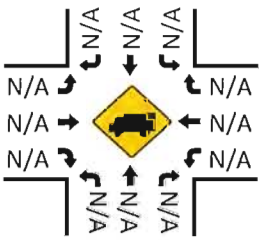
HT (AM)



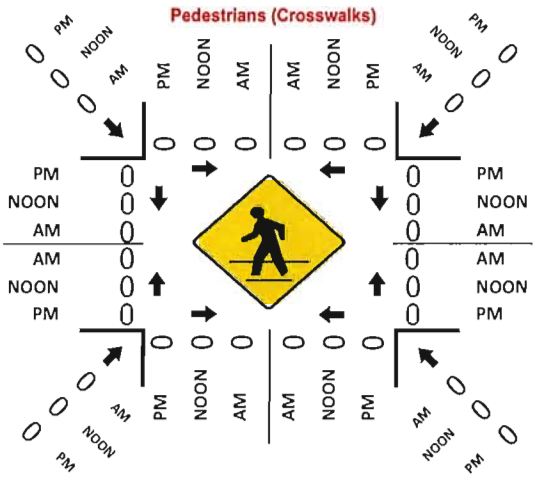
Cars (NOON)



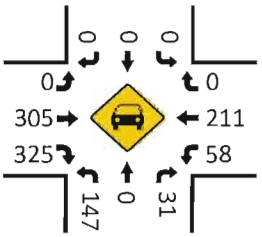
HT (NOON)



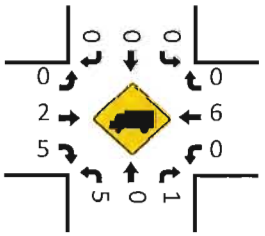
Pedestrians (Crosswalks)



Cars (PM)



HT (PM)

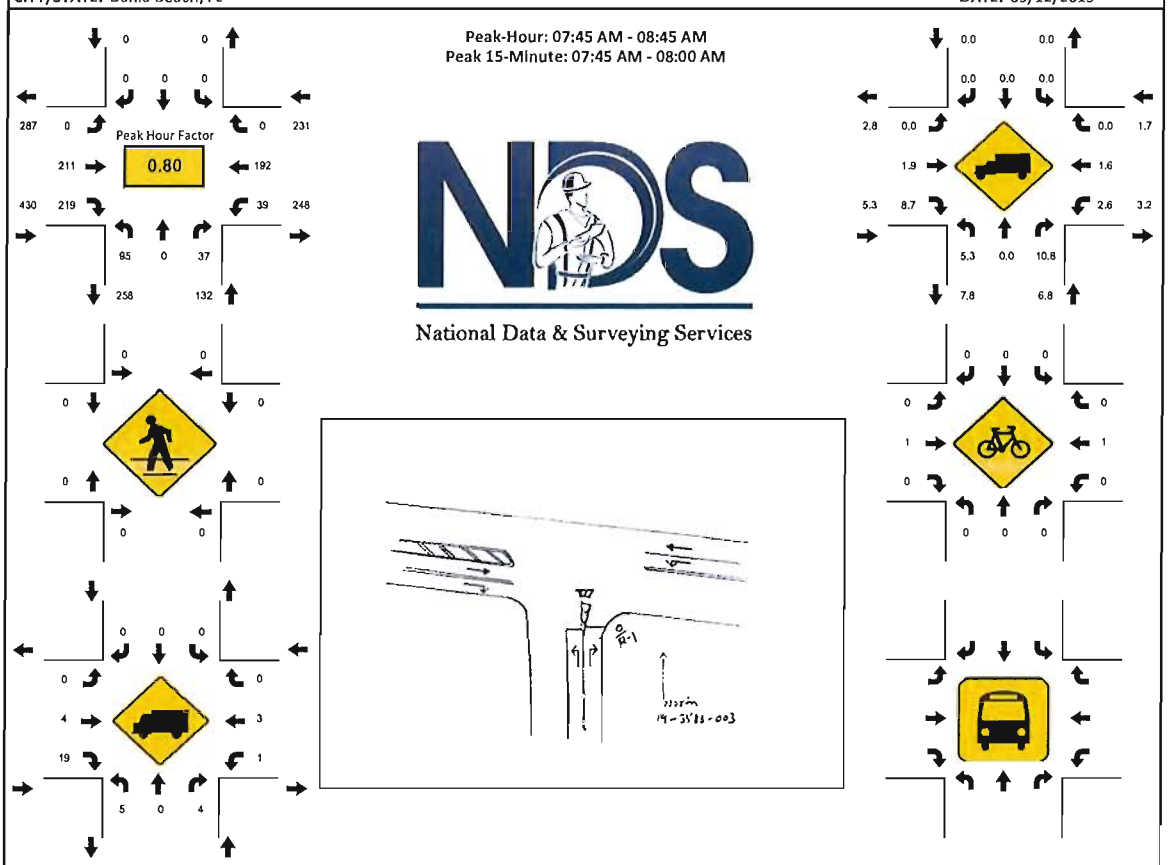


LOCATION: Bryan Rd & Old Griffin Rd
CITY/STATE: Dania Beach, FL

PROJECT ID: 19-03588-003
DATE: 09/12/2019

Peak-Hour: 07:45 AM - 08:45 AM
Peak 15-Minute: 07:45 AM - 08:00 AM

National Data & Surveying Services

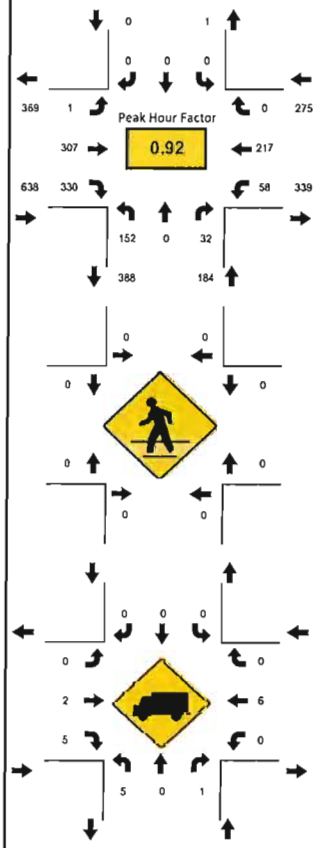


15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					Old Griffin Rd Eastbound					Old Griffin Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
07:00 AM	28	0	3	0		0	0	0	0		0	52	57	0		6	27	0	0		173	747
07:15 AM	27	0	2	0		0	0	0	0		0	37	47	0		2	34	0	0		149	765
07:30 AM	29	0	2	0		0	0	0	0		0	50	48	0		7	42	0	0		178	780
07:45 AM	24	0	12	0		0	0	0	0		0	66	78	0		8	59	0	0		247	793
08:00 AM	29	0	6	0		0	0	0	0		0	53	38	0		12	53	0	0		191	740
08:15 AM	22	0	11	0		0	0	0	0		0	36	39	0		12	44	0	0		164	549
08:30 AM	20	0	8	0		0	0	0	0		0	56	64	0		7	36	0	0		191	385
08:45 AM	30	0	14	0		0	0	0	0		0	44	51	0		9	46	0	0		194	194
Peak 15-Min Flowrates	**Northbound**					**Southbound**					**Eastbound**					**Westbound**					**Total**	
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
All Vehicles	116	0	48	0		0	0	0	0		0	264	312	0		48	236	0	0		1024	
Heavy Trucks	8	0	12			0	0	0			0	12	24			4	8	0			68	
Pedestrians		0					0					0					0				0	
Bicycles	0	0	0			0	0	0			0	4	0			0	4	0			8	
Railroad																						
Stopped Buses																						

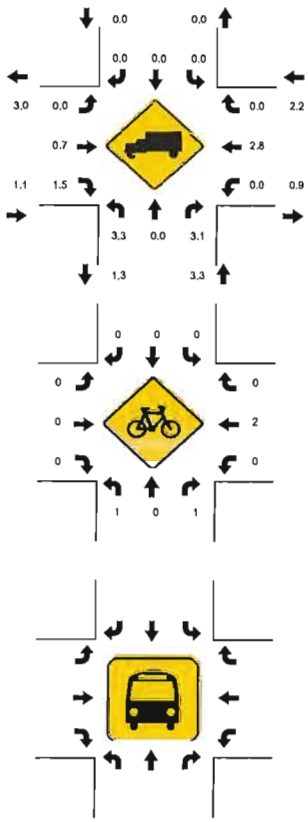
LOCATION: Bryan Rd & Old Griffin Rd
CITY/STATE: Dania Beach, FL

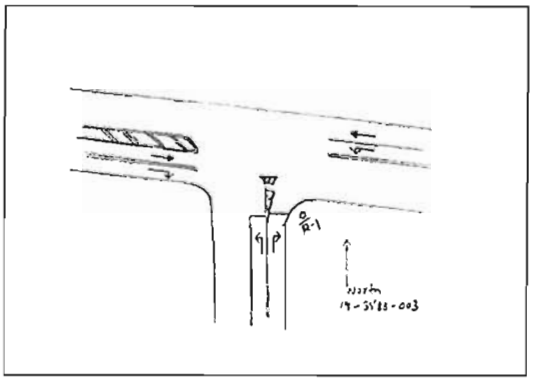
PROJECT ID: 19-03588-003
DATE: 09/12/2019

Peak-Hour: 04:45 PM - 05:45 PM
Peak 15-Minute: 05:30 PM - 05:45 PM



National Data & Surveying Services





15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					Old Griffin Rd Eastbound					Old Griffin Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	34	0	7	0		0	0	0	0		0	70	61	0		6	25	0	0		203	938
04:15 PM	39	0	11	0		0	0	0	0		0	95	66	0		6	32	0	0		249	1018
04:30 PM	51	0	7	0		0	0	0	0		0	56	58	0		15	63	0	0		250	1050
04:45 PM	34	0	5	0		0	0	0	0		0	69	61	0		13	54	0	0		236	1097
05:00 PM	41	0	10	0		0	0	0	0		0	82	75	0		14	61	0	0		283	1096
05:15 PM	40	0	7	0		0	0	0	0		0	70	97	0		17	50	0	0		281	813
05:30 PM	37	0	10	0		0	0	0	0		0	86	97	1		14	52	0	0		297	532
05:45 PM	24	0	11	0		0	0	0	0		0	63	88	0		6	43	0	0		235	235

Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	
All Vehicles	164	0	40	0		0	0	0	0		0	344	388	4		68	244	0	0		1252
Heavy Trucks	8	0	4			0	0	0			0	4	8			0	8	0			32
Pedestrians		0					0					0					0				0
Bicycles	4	0	4			0	0	0			0	0	0			0	4	0			12
Railroad																					
Stopped Buses																					

Kimley»Horn

APPENDIX C: INTERNAL CAPTURE MATRICES AND PASS-BY CAPTURE DATA

Internal Capture Reduction Calculations

Methodology for A.M. Peak Hour and P.M. Peak Hour
based on the *Trip Generation Handbook* , 3rd Edition, published by the Institute of Transportation Engineers

Methodology for Daily
based on the average of the Unconstrained Rates for the A.M. Peak Hour and P.M. Peak Hour

SUMMARY

INPUT

GROSS TRIP GENERATION

Land Use	Daily		A.M. Peak Hour		P.M. Peak Hour	
	Enter	Exit	Enter	Exit	Enter	Exit
Office	78	750	10	9	12	6
Retail	378	378	12	7	36	40
Restaurant	1,048	1,048	9	9	131	64
Cinema/Entertainment						
Residential	1,603	1,603	54	172	163	104
Hotel						
	3,107	3,779	85	197	342	214

OUTPUT

INTERNAL TRIPS

Land Use	Daily		A.M. Peak Hour		P.M. Peak Hour	
	Enter	Exit	Enter	Exit	Enter	Exit
Office	54	218	1	5	7	1
Retail	236	169	6	2	23	23
Restaurant	388	241	5	2	30	32
Cinema/Entertainment	0	0	0	0	0	0
Residential	202	252	1	4	22	26
Hotel	0	0	0	0	0	0
	880	880	13	13	82	82
% Reduction	25.6%		9.2%		29.5%	

OUTPUT

EXTERNAL TRIPS

Land Use	Daily		A.M. Peak Hour		P.M. Peak Hour	
	Enter	Exit	Enter	Exit	Enter	Exit
Office	24	532	9	4	5	5
Retail	142	209	6	5	13	17
Restaurant	660	807	4	7	101	32
Cinema/Entertainment	0	0	0	0	0	0
Residential	1,401	1,351	53	168	141	78
Hotel	0	0	0	0	0	0
	2,227	2,899	72	184	260	132

Table E.28 Pass-By and Non-Pass-By Trips Saturday, Mid-Day Peak Period Land Use Code 912—Drive-in Bank

SIZE (1,000 SQ. FT. GFA)	LOCATION	SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
						PRIMARY	DIVERTED	TOTAL		
3.8	Colonial Park, PA	March 2005	63	11:15 a.m.–12:15 p.m.	33	—	—	67	—	McMahon Associates, Inc.
3.8	Camp Hill Mall, PA	March 2005	103	11:00 a.m.–12:00 p.m.	77	—	—	23	—	McMahon Associates, Inc.
3.8	Exeter Twp, PA	March 2005	34	10:30–11:30 a.m.	37	—	—	63	—	McMahon Associates, Inc.
3.8	York, PA	March 2005	53	10:15–11:15 a.m.	33	—	—	67	—	McMahon Associates, Inc.
3.8	York, PA	March 2005	25	10:45–11:45 a.m.	12	—	—	88	—	McMahon Associates, Inc.

Average Pass-By Trip Percentage: 38
"—" means no data were provided

Table E.29 Pass-By and Non-Pass-By Trips Weekday, PM Peak Period Land Use Code 931—Quality Restaurant

SEATS	SIZE (1,000 SQ. FT. GFA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
240	12	Louisville area, KY	July 1993	38	4:00–6:00 p.m.	26	36	38	74	4,145	Barton-Aschman Assoc.
—	8	Orlando, FL	1992	168	4:00–8:00 p.m.	45	—	—	55	—	TPD Inc.
—	8.8	Orlando, FL	1992	84	2:00–6:00 p.m.	44	40	18	56	—	TPD Inc.
—	6.5	Orlando, FL	1995	173	2:00–6:00 p.m.	62	—	—	38	—	TPD Inc.

Average Pass-By Trip Percentage: 44
"—" means no data were provided

Table E.30 Pass-By and Non-Pass-By Trips Weekday, PM Peak Period Land Use Code 932—High-Turnover (Sit-Down) Restaurant

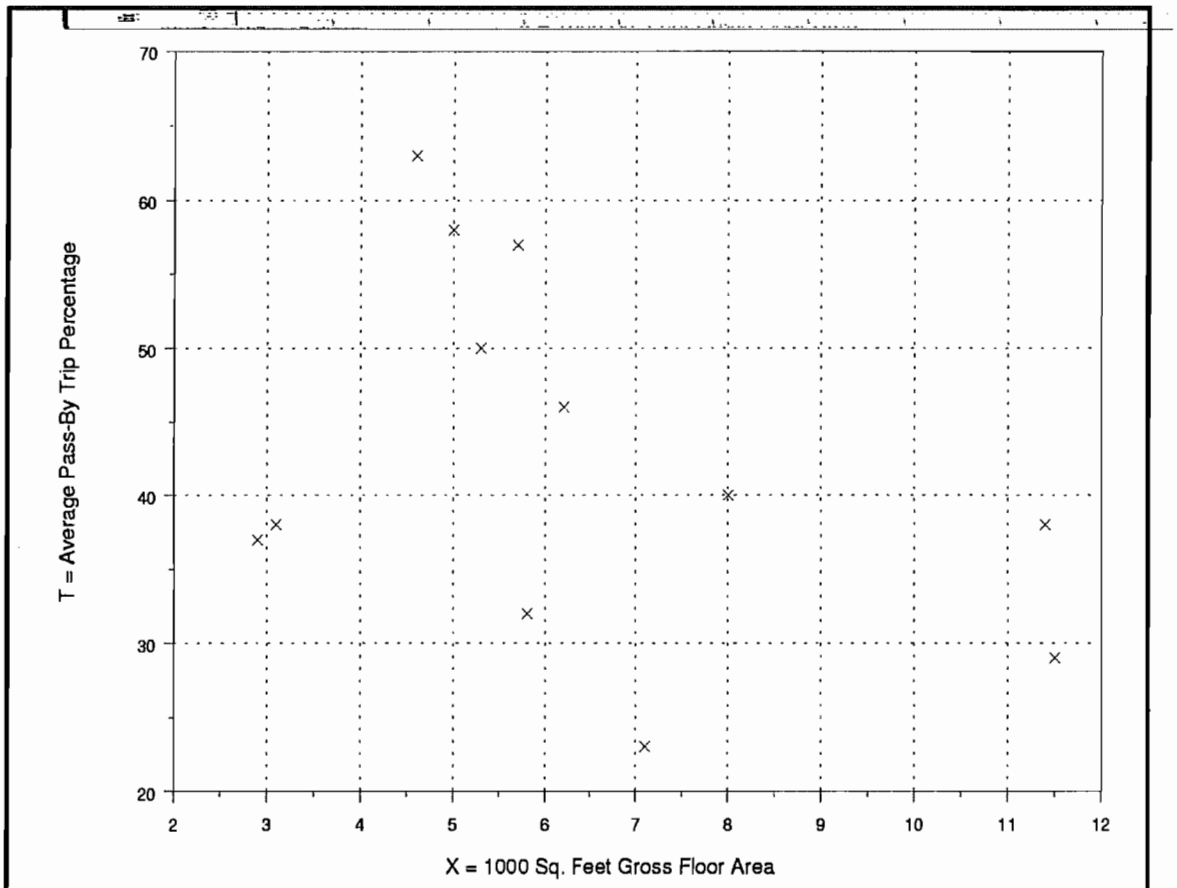
SEATS	SIZE (1,000 SQ. FT. GFA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
—	5.8	Orlando, FL	1992	150	2:00–6:00 p.m.	32	—	—	68	—	TPD Inc.
—	5	Casselberry, FL	1992	65	2:00–6:00 p.m.	58	—	—	42	—	TPD Inc.
168	5.3	Louisville area, KY	1993	24	4:00–6:00 p.m.	50	37	13	50	1,615	Barton-Aschman Assoc.
169	2.9	Louisville area, KY	1993	41	4:00–6:00 p.m.	37	27	36	63	3,935	Barton-Aschman Assoc.
150	3.1	Louisville area, KY	1993	21	4:00–6:00 p.m.	38	29	33	62	2,580	Barton-Aschman Assoc.
250	7.1	New Albany, IN	1993	—	4:00–6:00 p.m.	23	23	54	77	1,565	Barton-Aschman Assoc.
—	8	Kissimmee, FL	1995	664	2:00–6:00 p.m.	40	39	21	60	—	TPD Inc.
—	11	Orlando, FL	1996	267	2:00–6:00 p.m.	38	43	19	62	—	TPD Inc.
—	12	Orlando, FL	1996	317	2:00–6:00 p.m.	29	51	20	71	—	TPD Inc.
—	4.6	Orlando, FL	1992	276	2:00–6:00 p.m.	63	—	—	37	—	TPD Inc.
—	5.7	Orlando, FL	1994	308	2:00–6:00 p.m.	57	—	—	43	—	TPD Inc.
—	6.2	Orlando, FL	1995	521	2:00–6:00 p.m.	46	43	11	54	—	TPD Inc.

Average Pass-By Trip Percentage: 43
"—" means no data were provided

Figure E.16 High-Turnover (Sit-Down) Restaurant (932)

Average Pass-ByTrip Percentage vs:	**1,000 Sq. Ft. Gross Floor Area**
On a:	**Weekday, PM Peak Period**
Number of Studies:	12
Average 1,000 Sq. Ft. GFA:	6.4

Data Plot



Fitted Curve Equation: Not given R^2 = ****

Table E.31 Pass-By and Non-Pass-By Trips Weekday, AM Peak Period Land Use Code 934—Fast-Food Restaurant with Drive-Through Window

SEATS	SIZE (1,000 SQ. FT. GFA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
—	<5	Chicago suburbs, IL	1987	84	7:00–9:00 a.m.	44	—	—	56	—	Kenig, O'Hara, Humes, Flock
88	1.4	Louisville area, KY	1993	—	7:00–9:00 a.m.	62	22	16	38	1,407	Barton-Aschman Assoc.
100	3.6	Louisville, KY	1993	—	7:00–9:00 a.m.	32	47	21	68	437	Barton-Aschman Assoc.
87	4.2	New Albany, IN	1993	—	7:00–9:00 a.m.	46	23	31	54	1,049	Barton-Aschman Assoc.
150	3.0	Louisville area, KY	1993	—	7:00–9:00 a.m.	43	14	43	57	2,903	Barton-Aschman Assoc.
—	3.3	varies	1996	—	6:00–9:00 a.m.	68	—	—	32	—	Oracle Engineering

Average Pass-By Trip Percentage: 49
"—" means no data were provided

Table E.32 Pass-By and Non-Pass-By Trips Weekday, PM Peak Period
Land Use Code 934—Fast-Food Restaurant with Drive-Through Window

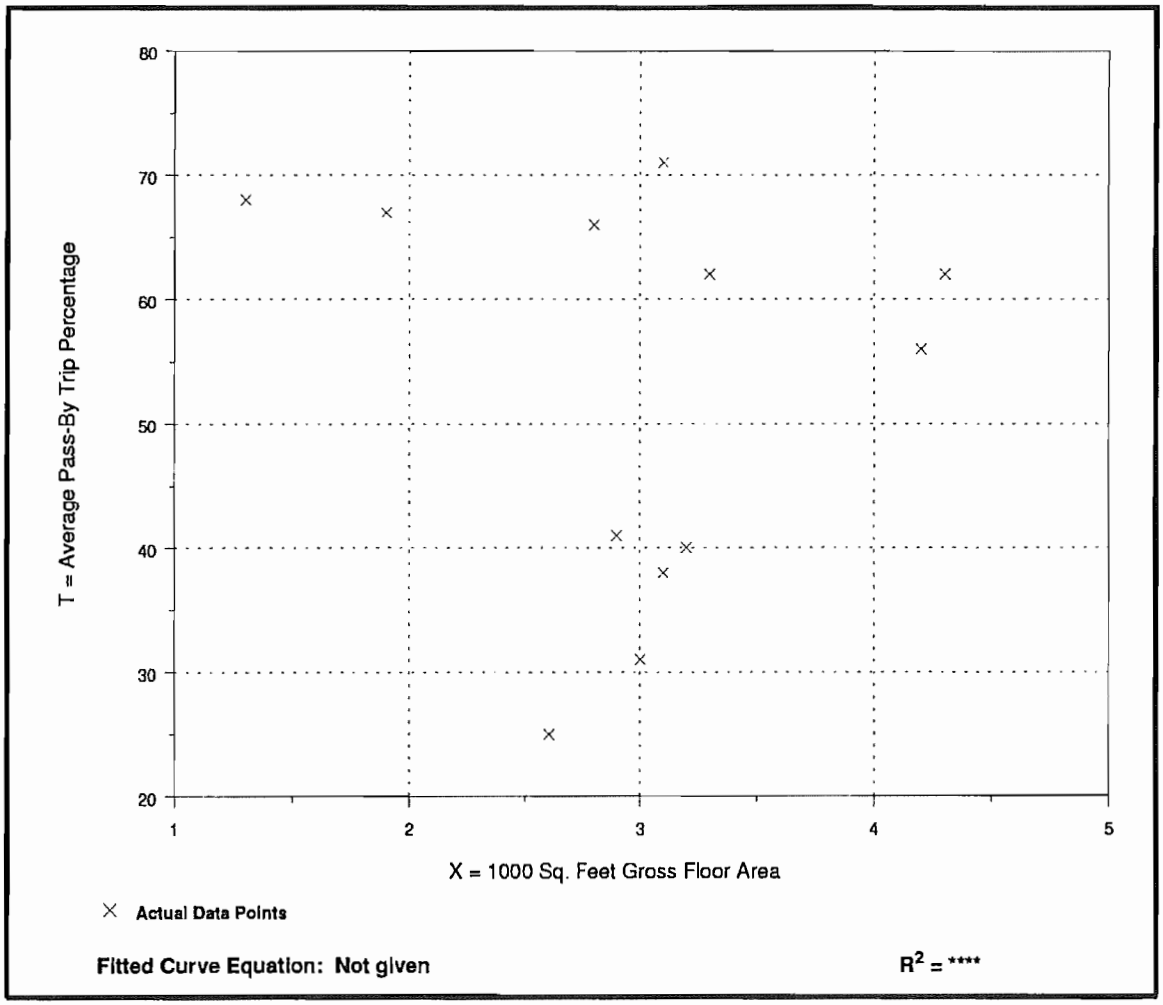
SEATS	SIZE (1,000 SQ. FT. GFA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
—	~2.6	Minn-St. Paul, MN	1987	50	3:00–7:00 p.m.	25	27	48	75	—	—
—	<5.0	Chicago suburbs, IL	1987	80	3:00–6:00 p.m.	38	—	—	62	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	100	3:00–6:00 p.m.	55	—	—	45	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	159	3:00–6:00 p.m.	56	—	—	44	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	225	3:00–6:00 p.m.	48	—	—	52	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	88	3:00–6:00 p.m.	35	—	—	65	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	84	3:00–6:00 p.m.	44	—	—	56	—	Kenig, O'Hara, Humes, Flock
88	1.3	Louisville area, KY	1993	—	4:00–6:00 p.m.	68	22	10	32	2,055	Barton-Aschman Assoc.
120	1.9	Louisville area, KY	1993	33	4:00–6:00 p.m.	67	24	9	33	2,447	Barton-Aschman Assoc.
87	4.2	New Albany, IN	1993	—	4:00–6:00 p.m.	56	25	19	44	1,632	Barton-Aschman Assoc.
150	3.0	Louisville area, KY	1993	—	4:00–6:00 p.m.	31	31	38	69	4,250	Barton-Aschman Assoc.
—	3.1	Kissimmee, FL	1995	28	2:00–6:00 p.m.	71	—	—	29	—	TPD Inc.
—	3.1	Apopka, FL	1996	29	2:00–6:00 p.m.	38	—	—	62	—	TPD Inc.
—	2.8	Winter Springs, FL	1995	47	2:00–6:00 p.m.	66	—	—	34	—	TPD Inc.
—	4.3	Longwood, FL	1994	304	2:00–6:00 p.m.	62	—	—	38	—	TPD Inc.
—	3.2	Altamonte Springs, FL	1996	202	2:00–6:00 p.m.	40	39	21	60	—	TPD Inc.
—	2.9	Winter Park, FL	1996	271	2:00–6:00 p.m.	41	41	18	59	—	TPD Inc.
—	3.3*	several	1996	varies	4:00–6:00 p.m.	62	—	—	38	—	Oracle Engineering

*Average of several combined studies.
Average Pass-By Trip Percentage: 50
"—" means no data were provided

Figure E.17 Fast-Food Restaurant with Drive-Through Window (934)

Average Pass-By Trip Percentage vs:	**1,000 Sq. Ft. Gross Floor Area**
On a:	**Weekday, PM Peak Period**
Number of Studies:	12
Average 1,000 Sq. Ft. GFA:	3.0

Data Plot



Kimley»Horn

APPENDIX D: VOLUME DEVELOPMENT WORKSHEETS AND SIGNAL TIMING

VOLUME DEVELOPMENT SHEET
DANIA MARINA 70 WAVE & 90 WAVE
BRYAN ROAD & STIRLING ROAD
EXISTING GEOMETRY

Growth Rate =	1.60%	
Peak Season =	1.08	1.08
Buildout Year =	2024	2024
Years =	5	5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	0	0	0	74	0	118	131	951	0	0	864	51
Peak Season Volume	0	0	0	80	0	127	141	1,027	0	0	933	55
Traffic Volume Growth	0	0	0	7	0	10	12	85	0	0	77	5
Committed Development (150 S Bryan)	0	0	0	30	0	23	9	0	0	0	0	7
Committed Development (Dania Pointe)	0	0	0	25	0	131	210	17	0	0	39	39
Background Traffic Volumes	0	0	0	142	0	291	372	1,129	0	0	1,049	106
Project Traffic												
Inbound Traffic Assignment							46.0%					13.0%
Inbound Traffic Volumes							61					17
Outbound Traffic Assignment				13.0%		46.0%						
Outbound Traffic Volumes				30		108						
Project Traffic	0	0	0	30	0	108	61	0	0	0	0	17
Total Traffic w/o RTOR	0	0	0	172	0	399	433	1,129	0	0	1,049	123
RTOR Reduction						(60)						(60)
TOTAL TRAFFIC	0	0	0	172	0	339	433	1,129	0	0	1,049	63

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	0	0	0	152	0	225	95	954	0	0	1,350	67
Peak Season Volume	0	0	0	164	0	243	103	1,030	0	0	1,458	72
Traffic Volume Growth	0	0	0	14	0	20	9	85	0	0	120	6
Committed Development (150 S Bryan)	0	0	0	14	0	17	27	0	0	0		22
Committed Development (Dania Pointe)	0	0	0	70	0	363	220	47	0	0	41	41
Background Traffic Volumes	0	0	0	262	0	643	359	1,162	0	0	1,619	141
Project Traffic												
Inbound Traffic Assignment							46.0%					13.0%
Inbound Traffic Volumes							126					35
Outbound Traffic Assignment				13.0%		46.0%						
Outbound Traffic Volumes				18		63						
Project Traffic	0	0	0	18	0	63	126	0	0	0	0	35
Total Traffic w/o RTOR	0	0	0	280	0	706	485	1,162	0	0	1,619	176
RTOR Reduction						(60)						(60)
TOTAL TRAFFIC	0	0	0	280	0	646	485	1,162	0	0	1,619	116

VOLUME DEVELOPMENT SHEET
DANIA MARINA 70 WAVE & 90 WAVE
BRYAN ROAD & NW 1ST STREET
EXISTING GEOMETRY

Growth Rate =	1.60%	
Peak Season =	1.08	1.08
Buildout Year =	2024	2024
Years =	5	5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	0	129	60	46	165	0	0	0	0	109	0	63
Peak Season Volume	0	139	65	50	178	0	0	0	0	118	0	68
Traffic Volume Growth	0	11	5	4	15	0	0	0	0	10	0	6
Committed Development (150 S Bryan)	0	21	0	0	7	0	0	0	0		0	
Committed Development (Dania Pointe)	0	63	21	0	171	0	0	0	0	23	0	23
Background Traffic Volumes	0	234	91	54	371	0	0	0	0	151	#REF!	97
Project Traffic												
Inbound Traffic Assignment					35.0%					6.0%		
Inbound Traffic Volumes					47					8		
Outbound Traffic Assignment		35.0%	6.0%									
Outbound Traffic Volumes		82	14									
Project Traffic	0	82	14	0	47	0	0	0	0	8	0	0
Total Traffic w/o RTOR	0	316	105	54	418	0	0	0	0	159	#REF!	97
RTOR Reduction												
TOTAL TRAFFIC	0	316	105	54	418	0	0	0	0	159	#REF!	97

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	0	118	78	74	396	0	0	0	0	77	0	45
Peak Season Volume	0	127	84	80	428	0	0	0	0	83	0	49
Traffic Volume Growth	0	10	7	7	35	0	0	0	0	7	0	4
Committed Development (150 S Bryan)	0	12	0	0	19	0	0	0	0	0	0	0
Committed Development (Dania Pointe)	0	176	59	0	179	0	0	0	0	24	0	24
Background Traffic Volumes	0	325	150	87	661	0	0	0	0	114	0	77
Project Traffic												
Inbound Traffic Assignment					35.0%					6.0%		
Inbound Traffic Volumes					96					16		
Outbound Traffic Assignment		35.0%	6.0%									
Outbound Traffic Volumes		48	8									
Project Traffic	0	48	8	0	96	0	0	0	0	16	0	0
Total Traffic w/o RTOR	0	373	158	87	757	0	0	0	0	130	0	77
RTOR Reduction												
TOTAL TRAFFIC	0	373	158	87	757	0	0	0	0	130	0	77

VOLUME DEVELOPMENT SHEET
DANIA MARINA 70 WAVE & 90 WAVE
BRYAN ROAD & OLD GRIFFIN ROAD
EXISTING GEOMETRY

Growth Rate =	1.60%	
Peak Season =	1.08	1.08
Buildout Year =	2024	2024
Years =	5	5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	95	0	37	0	0	0	0	211	219	39	192	0
Peak Season Volume	103	0	40	0	0	0	0	228	237	42	207	0
Traffic Volume Growth	9	0	3	0	0	0	0	19	20	3	17	0
Committed Development (150 S Bryan)	15	0	6	0	0	0	0	0	5	2	0	0
Committed Development (Dania Pointe)	118	0	46	0	0	0	0	0	272	31	0	0
Background Traffic Volumes	245	0	95	0	0	0	0	247	534	78	224	0
Project Traffic												
Inbound Traffic Assignment									25.0%	10.0%		
Inbound Traffic Volumes									33	13		
Outbound Traffic Assignment	25.0%		10.0%									
Outbound Traffic Volumes	59		23									
Project Traffic	59	0	23	0	0	0	0	0	33	13	0	0
Total Traffic w/o RTOR	304	0	118	0	0	0	0	247	567	91	224	0
RTOR Reduction			(60)						(60)			(60)
TOTAL TRAFFIC	304	0	58	0	0	0	0	247	507	91	224	0

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	152	0	32	0	0	0	0	307	330	58	217	0
Peak Season Volume	164	0	35	0	0	0	0	332	356	63	234	0
Traffic Volume Growth	14	0	3	0	0	0	0	27	29	5	19	0
Committed Development (150 S Bryan)	8	0	4	0	0	0	0	0	14	5	0	0
Committed Development (Dania Pointe)	328	0	129	0	0	0	0	0	285	33	0	0
Background Traffic Volumes	514	0	171	0	0	0	0	359	684	106	253	0
Project Traffic												
Inbound Traffic Assignment									25.0%	10.0%		
Inbound Traffic Volumes									68	27		
Outbound Traffic Assignment	25.0%		10.0%									
Outbound Traffic Volumes	35		14									
Project Traffic	35	0	14	0	0	0	0	0	68	27	0	0
Total Traffic w/o RTOR	549	0	185	0	0	0	0	359	752	133	253	0
RTOR Reduction			(60)						(60)			(60)
TOTAL TRAFFIC	549	0	125	0	0	0	0	359	692	133	253	0

2019 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL
CATEGORY: 9301 CEN.-W OF US1 TO SR7

MOCF: 0.97

WEEK	DATES	SF	PSCF
1	01/01/2019 - 01/05/2019	1.00	1.03
2	01/06/2019 - 01/12/2019	1.00	1.03
3	01/13/2019 - 01/19/2019	1.00	1.03
4	01/20/2019 - 01/26/2019	0.99	1.02
* 5	01/27/2019 - 02/02/2019	0.98	1.01
* 6	02/03/2019 - 02/09/2019	0.97	1.00
* 7	02/10/2019 - 02/16/2019	0.96	0.99
* 8	02/17/2019 - 02/23/2019	0.96	0.99
* 9	02/24/2019 - 03/02/2019	0.96	0.99
*10	03/03/2019 - 03/09/2019	0.96	0.99
*11	03/10/2019 - 03/16/2019	0.96	0.99
*12	03/17/2019 - 03/23/2019	0.96	0.99
*13	03/24/2019 - 03/30/2019	0.96	0.99
*14	03/31/2019 - 04/06/2019	0.97	1.00
*15	04/07/2019 - 04/13/2019	0.97	1.00
*16	04/14/2019 - 04/20/2019	0.97	1.00
*17	04/21/2019 - 04/27/2019	0.98	1.01
18	04/28/2019 - 05/04/2019	0.99	1.02
19	05/05/2019 - 05/11/2019	0.99	1.02
20	05/12/2019 - 05/18/2019	1.00	1.03
21	05/19/2019 - 05/25/2019	1.01	1.04
22	05/26/2019 - 06/01/2019	1.02	1.05
23	06/02/2019 - 06/08/2019	1.02	1.05
24	06/09/2019 - 06/15/2019	1.03	1.06
25	06/16/2019 - 06/22/2019	1.04	1.07
26	06/23/2019 - 06/29/2019	1.04	1.07
27	06/30/2019 - 07/06/2019	1.05	1.08
28	07/07/2019 - 07/13/2019	1.05	1.08
29	07/14/2019 - 07/20/2019	1.06	1.09
30	07/21/2019 - 07/27/2019	1.05	1.08
31	07/28/2019 - 08/03/2019	1.04	1.07
32	08/04/2019 - 08/10/2019	1.03	1.06
33	08/11/2019 - 08/17/2019	1.03	1.06
34	08/18/2019 - 08/24/2019	1.03	1.06
35	08/25/2019 - 08/31/2019	1.04	1.07
36	09/01/2019 - 09/07/2019	1.05	1.08
37	09/08/2019 - 09/14/2019	1.05	1.08
38	09/15/2019 - 09/21/2019	1.06	1.09
39	09/22/2019 - 09/28/2019	1.05	1.08
40	09/29/2019 - 10/05/2019	1.03	1.06
41	10/06/2019 - 10/12/2019	1.02	1.05
42	10/13/2019 - 10/19/2019	1.00	1.03
43	10/20/2019 - 10/26/2019	1.00	1.03
44	10/27/2019 - 11/02/2019	1.00	1.03
45	11/03/2019 - 11/09/2019	1.00	1.03
46	11/10/2019 - 11/16/2019	1.00	1.03
47	11/17/2019 - 11/23/2019	1.00	1.03
48	11/24/2019 - 11/30/2019	1.00	1.03
49	12/01/2019 - 12/07/2019	1.00	1.03
50	12/08/2019 - 12/14/2019	1.00	1.03
51	12/15/2019 - 12/21/2019	1.00	1.03
52	12/22/2019 - 12/28/2019	1.00	1.03
53	12/29/2019 - 12/31/2019	1.00	1.03

* PEAK SEASON

BROWARD COUNTY TRAFFIC ENGINEERING

ACTUATED TRAFFIC SIGNAL TIMING SHEET

Intersection Number	3307	**Initial Operation Date**	12/14/82
Controller Type	2070 LN	**System Number**	3307
Modification Number	10	**Modification Date**	11/20/2014
Drawing/Project No	411438-1-52-01	**FPL Grid Number**	87574427507
Intersection	STIRLING ROAD (SR 848) and BRYAN ROAD		
Municipality	DANIA BEACH		

Controller Phase	1	2	3	4	5	6	7	8
Face Number	1	2	3			6		8
Direction	EBL	WB				EB		SB
Initial Green(MIN)	4	12				12		6
Vehicle Ext.(GAP)	1.5	3.0				3.0		2.0
Maximum Green I	15	50				50		25
Maximum Green II								
Yellow Clearance	5.0	5.0				5.0		4.0
All Red Clearance	2.0	2.0				2.0		2.0
Phase Recall	OFF	MIN				MIN		OFF
Detector Delay								20-RT
Walk		7						5
Pedestrian Clearance		12						16
Permissive	5-SECT							
Flash Operation		YELLOW				YELLOW		RED

Attachment

NOTES:

1. ANTI-BACKDOWN EASTBOUND: PHASES 2+6 ON--->OMIT PHASE 1.
2. MOD 10 UPDATES YELLOW CLEARANCE VALUES PER FDOT STANDARDS.

Submitted By _____ **Approved By** _____

Broward County Timing Sheet 7/2/2019 11:36:21 AM

Station : 3307 - Stirling Rd & Bryan Rd (Standard File)

Phase	1 (EL)	2 (WT)	3	4	5 (WL)	6 (ET)	7	8 (ST)	9	10	11	12	13	14	15	16
Walk		7				7		5								
Ped Clearance		12						16								
Min Green	4	12				12		6								
Gap Ext	1.5	3				3		2								
Max1	15	50				50		25								
Max2																
Yellow Clr	5	5				5		4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Red Clr	2	2				2		2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Red Revert																
Added Initial																
Max Initial																
Time Before Reduce																
Cars Before Reduce																
Time To Reduce																
Reduce By																
Min Gap																
Dynamic Max Limit																
Dynamic Max Step																
Enable	ON	ON				ON		ON								
Auto Flash Entry								ON								
Auto Flash Exit		ON				ON										
Non-Actuated 1																
Non-Actuated 2																
Lock Call									ON	ON	ON	ON	ON	ON	ON	ON
Min Recall		ON				ON										
Max Recall																
Ped Recall																
Soft Recall																
Dual Entry																
Sim Gap Enable		ON				ON			ON	ON	ON	ON	ON	ON	ON	ON
Guar Passage																
Rest In Walk		ON				ON										
Cond Service																
Add Init Calc																

Preemption

Channel	1	2	3	4	5	6
Lock Input	ON	ON	ON	ON	ON	ON
Override Auto Flash	ON	ON	ON	ON	ON	ON
Override Higher Preempt	ON	ON	ON	ON	ON	ON
Flash in Dwell						
Link to Preempt						
Delay						
Min Duration						
Min Green						
Min Walk						
Ped Clear						
Track Green						
Min Dwell						
Max Presence						
Track Veh 1						
Track Veh 2						
Track Veh 3						
Track Veh 4						
Dwell Cyc Veh 1						
Dwell Cyc Veh 2						
Dwell Cyc Veh 3						
Dwell Cyc Veh 4						
Dwell Cyc Veh 5						
Dwell Cyc Veh 6						
Dwell Cyc Veh 7						
Dwell Cyc Veh 8						
Dwell Cyc Veh 9						
Dwell Cyc Veh 10						
Dwell Cyc Veh 11						
Dwell Cyc Veh 12						
Dwell Cyc Ped1						
Dwell Cyc Ped2						
Dwell Cyc Ped3						
Dwell Cyc Ped4						
Dwell Cyc Ped5						
Dwell Cyc Ped6						
Dwell vPed7						

Preempt LP

Channel	1	2	3	4
Min				
Max				
Enable				
Lock Mode	MAX	MAX	MAX	MAX
Coord in Preempt				
No Skip				
Priority P1				
Priority P2				
Priority P3				
Priority P4				
Lock				
Headway				
Group Lock				
Queue Jump				
Free Mode				
Alt Table				

Station : 3307 - Stirling Rd & Bryan Rd (Standard File)

Coordination

Hour	Minute	Action	Pattern	Cycle	Offset	Split	Seqnc	Short	Long	Dwell	Split 1	Split 2	Split 3	Split 4	Split 5	Split 6	Split 7	Split 8	Split 9	Split 10	Split 11	Split 12	Split 13	Split 14	Split 15	Split 16
Day Plan 1											**Easy**															
		100	254																							
6		2	2	160	65	2	1	10	50		20	108				128		32								
9		3	3	160	9	3	1	10	50		25	105				130		30								
15		4	4	160	86	4	1	10	50		20	108				128		32								
20		3	3	160	9	3	1	10	50		25	105				130		30								
Day Plan 2											**Easy**															
		3	3	160	9	3	1	10	50		25	105				130		30								
1		100	254																							
6	30	3	3	160	9	3	1	10	50		25	105				130		30								
Day Plan 3											**Easy**															
		3	3	160	9	3	1	10	50		25	105				130		30								
1		100	254																							
6	30	3	3	160	9	3	1	10	50		25	105				130		30								
23		100	254																							

Broward County Timing Sheet 7/2/2019 11:36:21 AM

Station : 3307 - Stirling Rd & Bryan Rd (Standard File)

Hour	Minute	Action	Pattern	Cycle	Offset	Split	Seqnc	Short	Long	Dwell	Split 1	Split 2	Split 3	Split 4	Split 5	Split 6	Split 7	Split 8	Split 9	Split 10	Split 11	Split 12	Split 13	Split 14	Split 15	Split 16
Day Plan 4											Easy															

Scheduler

	Month												Day of Week							Day of Month									1									2									3		
Plan	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	Day Plan
1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
3	1	1	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
4	1													1	1	1	1	1		1																																2
5	1													1							1																																2
6					1									1																														1	1	1	1	1	1	1		2
7							1											1				1																														2
8							1							1	1	1	1	1					1																													2
9							1							1										1																													2
10									1					1						1	1	1	1	1	1	1																											2
11											1						1																								1	1	1	1	1	1	1					2
12											1							1																									1	1	1	1	1	1	1				2
13												1		1				1																											1								2
14												1		1	1	1	1	1																												1							2
15												1		1																																	1						2
16												1		1				1																																		1	2
17																																																					1
18																																																					1
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User Comments:

TRAFFIC ENGINEERING DIVISION
SIGNALIZED INTERSECTION

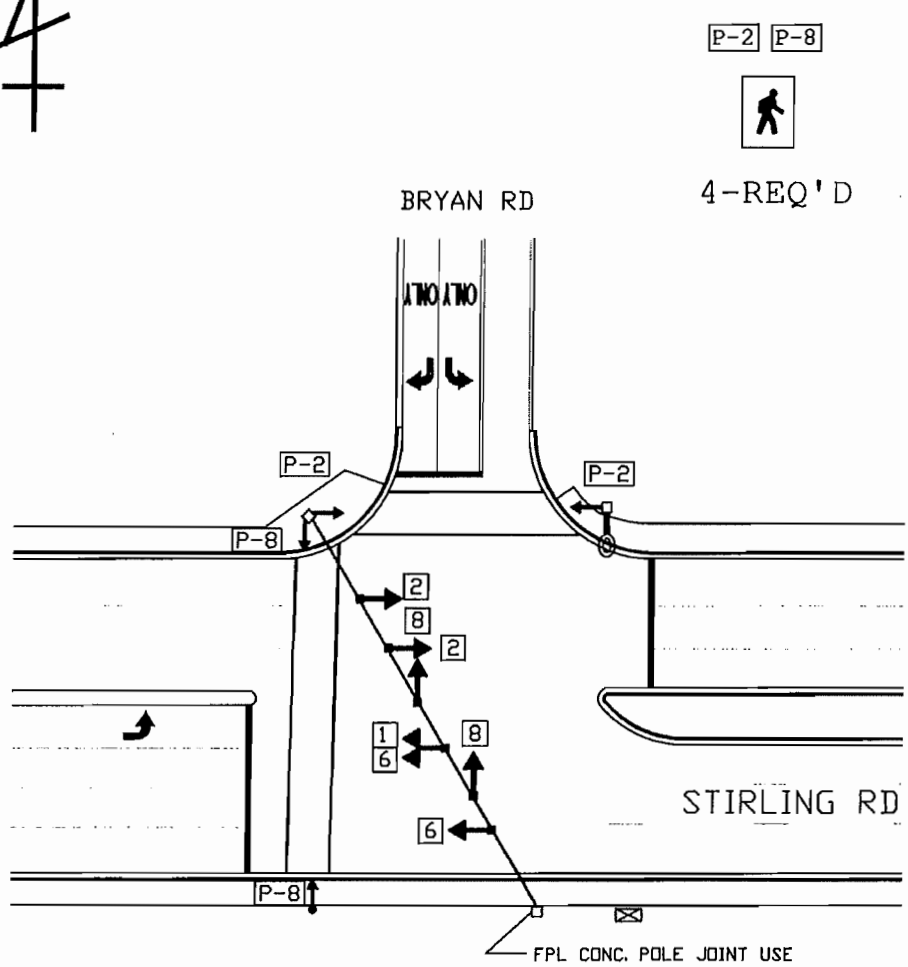
LOCATION **STIRLING ROAD & BRYAN ROAD**

ORDER NO **FDOT** ISSUE DATE ---- REV NO. **3** COMPL DATE **12/13/07**

DWG. NO. **10-01-12-01** FILE NO. **3307** CITY **DANIA** SCALE: 1" = 50'

DWN BY: LARRY

NORTH



P-2 P-8

4-REQ'D

1 6

5-SECT
1-WAY
1-REQ'D

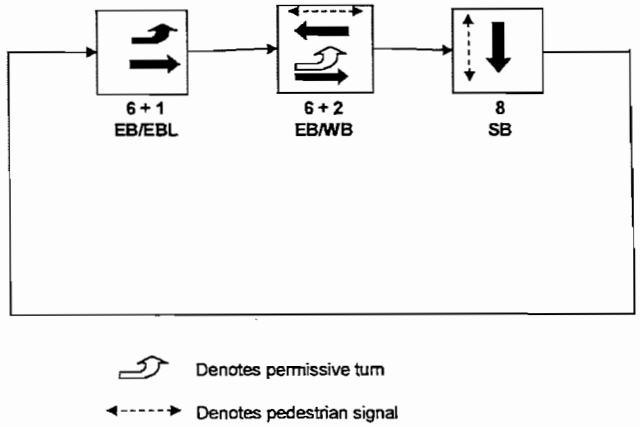
2 6 8

3-SECT
1-WAY
5-REQ'D

1. VIDEO DETECTION INSTALLED, STATE PROJ NO 4114381

Sequence of Operation for (3307) Stirling Road and Bryan Road

Dania



Kimley»Horn

APPENDIX E: SYNCHRO ANALYSIS OUTPUT

Intersection	
Int Delay, s/veh	2.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↱	↰	↑	↰	↱
Traffic Vol, veh/h	228	237	42	207	103	40
Future Vol, veh/h	228	237	42	207	103	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	125	75	-	0	150
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	248	258	46	225	112	43

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	506	0	565	248
Stage 1	-	-	-	-	248	-
Stage 2	-	-	-	-	317	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1059	-	486	791
Stage 1	-	-	-	-	793	-
Stage 2	-	-	-	-	738	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1059	-	465	791
Mov Cap-2 Maneuver	-	-	-	-	465	-
Stage 1	-	-	-	-	793	-
Stage 2	-	-	-	-	706	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.4	13.7
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	465	791	-	-	1059	-
HCM Lane V/C Ratio	0.241	0.055	-	-	0.043	-
HCM Control Delay (s)	15.2	9.8	-	-	8.6	-
HCM Lane LOS	C	A	-	-	A	-
HCM 95th %tile Q(veh)	0.9	0.2	-	-	0.1	-

Intersection	
Int Delay, s/veh	4.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	118	68	139	65	50	178
Future Vol, veh/h	118	68	139	65	50	178
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	128	74	151	71	54	193

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	452	151	0	0	222	0
Stage 1	151	-	-	-	-	-
Stage 2	301	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	565	895	-	-	1347	-
Stage 1	877	-	-	-	-	-
Stage 2	751	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	542	895	-	-	1347	-
Mov Cap-2 Maneuver	601	-	-	-	-	-
Stage 1	877	-	-	-	-	-
Stage 2	721	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.5	0	1.7
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	683	1347	-
HCM Lane V/C Ratio	-	-	0.296	0.04	-
HCM Control Delay (s)	-	-	12.5	7.8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	1.2	0.1	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	141	1027	933	80	127
Future Volume (vph)	141	1027	933	80	127
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	137.5	137.5	123.9	9.5	23.1
Actuated g/C Ratio	0.86	0.86	0.77	0.06	0.14
v/c Ratio	0.18	0.26	0.27	0.43	0.41
Control Delay	2.3	2.3	5.4	78.5	13.9
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	2.3	2.3	5.4	78.5	13.9
LOS	A	A	A	E	B
Approach Delay		2.3	5.4	38.8	
Approach LOS		A	A	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 65 (41%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.43	
Intersection Signal Delay: 6.8	Intersection LOS: A
Intersection Capacity Utilization 44.9%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	153	1116	1074	87	138
v/c Ratio	0.18	0.26	0.27	0.43	0.41
Control Delay	2.3	2.3	5.4	78.5	13.9
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	2.3	2.3	5.4	78.5	13.9
Queue Length 50th (ft)	9	59	102	46	6
Queue Length 95th (ft)	17	81	134	76	71
Internal Link Dist (ft)		568	596	380	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	936	4368	3909	557	398
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.16	0.26	0.27	0.16	0.35

Intersection Summary

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	141	1027	933	55	80	127
Future Volume (veh/h)	141	1027	933	55	80	127
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	153	1116	1014	60	87	138
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	876	4184	3702	219	343	197
Arrive On Green	0.03	0.82	0.75	0.75	0.10	0.10
Sat Flow, veh/h	3456	5274	5099	291	3456	1585
Grp Volume(v), veh/h	153	1116	700	374	87	138
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1818	1728	1585
Q Serve(g_s), s	1.6	8.1	10.3	10.3	3.7	13.4
Cycle Q Clear(g_c), s	1.6	8.1	10.3	10.3	3.7	13.4
Prop In Lane	1.00			0.16	1.00	1.00
Lane Grp Cap(c), veh/h	876	4184	2556	1365	343	197
V/C Ratio(X)	0.17	0.27	0.27	0.27	0.25	0.70
Avail Cap(c_a), veh/h	1070	4184	2556	1365	562	297
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	4.3	3.3	6.3	6.3	66.6	67.2
Incr Delay (d2), s/veh	0.1	0.2	0.3	0.5	0.4	4.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.5	3.7	4.0	1.7	5.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	4.4	3.5	6.5	6.8	67.0	71.7
LnGrp LOS	A	A	A	A	E	E
Approach Vol, veh/h		1269	1074		225	
Approach Delay, s/veh		3.6	6.6		69.9	
Approach LOS		A	A		E	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	11.0	127.1			138.1	21.9
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	3.6	12.3			10.1	15.4
Green Ext Time (p_c), s	0.3	9.6			11.9	0.5

Intersection Summary	
HCM 6th Ctrl Delay	10.7
HCM 6th LOS	B

Intersection	
Int Delay, s/veh	4.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↱	↰	↑	↰	↱
Traffic Vol, veh/h	332	356	63	234	164	35
Future Vol, veh/h	332	356	63	234	164	35
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	125	75	-	0	150
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	361	387	68	254	178	38

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	748	0	751	361
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	390	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	861	-	378	684
Stage 1	-	-	-	-	705	-
Stage 2	-	-	-	-	684	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	861	-	348	684
Mov Cap-2 Maneuver	-	-	-	-	348	-
Stage 1	-	-	-	-	705	-
Stage 2	-	-	-	-	630	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2	23
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	348	684	-	-	861	-
HCM Lane V/C Ratio	0.512	0.056	-	-	0.08	-
HCM Control Delay (s)	25.7	10.6	-	-	9.5	-
HCM Lane LOS	D	B	-	-	A	-
HCM 95th %tile Q(veh)	2.8	0.2	-	-	0.3	-

Intersection	
Int Delay, s/veh	2.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	83	49	127	84	80	428
Future Vol, veh/h	83	49	127	84	80	428
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	90	53	138	91	87	465

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	777	138	0	0	229	0
Stage 1	138	-	-	-	-	-
Stage 2	639	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	365	910	-	-	1339	-
Stage 1	889	-	-	-	-	-
Stage 2	526	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	341	910	-	-	1339	-
Mov Cap-2 Maneuver	419	-	-	-	-	-
Stage 1	889	-	-	-	-	-
Stage 2	492	-	-	-	-	-

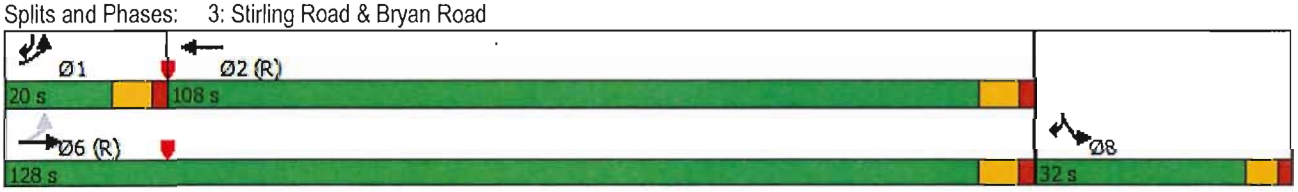
Approach	WB	NB	SB
HCM Control Delay, s	14.4	0	1.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	524	1339	-
HCM Lane V/C Ratio	-	-	0.274	0.065	-
HCM Control Delay (s)	-	-	14.4	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	1.1	0.2	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	103	1030	1458	164	243
Future Volume (vph)	103	1030	1458	164	243
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	122.2	122.2	108.3	24.8	38.7
Actuated g/C Ratio	0.76	0.76	0.68	0.16	0.24
v/c Ratio	0.27	0.29	0.49	0.33	0.64
Control Delay	6.8	6.3	13.6	60.7	53.2
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	6.8	6.3	13.6	60.7	53.2
LOS	A	A	B	E	D
Approach Delay		6.4	13.6	56.2	
Approach LOS		A	B	E	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 86 (54%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.64	
Intersection Signal Delay: 16.6	Intersection LOS: B
Intersection Capacity Utilization 55.7%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	112	1120	1663	178	264
v/c Ratio	0.27	0.29	0.49	0.33	0.64
Control Delay	6.8	6.3	13.6	60.7	53.2
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	6.8	6.3	13.6	60.7	53.2
Queue Length 50th (ft)	13	116	285	86	216
Queue Length 95th (ft)	26	167	382	119	297
Internal Link Dist (ft)		568	596	380	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	537	3940	3433	596	457
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.21	0.28	0.48	0.30	0.58

Intersection Summary

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	103	1030	1458	72	164	243
Future Volume (veh/h)	103	1030	1458	72	164	243
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	112	1120	1585	78	178	264
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	491	3861	3427	169	562	297
Arrive On Green	0.03	0.76	0.69	0.69	0.16	0.16
Sat Flow, veh/h	3456	5274	5153	245	3456	1585
Grp Volume(v), veh/h	112	1120	1082	581	178	264
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1826	1728	1585
Q Serve(g_s), s	1.5	11.0	23.3	23.3	7.3	26.0
Cycle Q Clear(g_c), s	1.5	11.0	23.3	23.3	7.3	26.0
Prop In Lane	1.00			0.13	1.00	1.00
Lane Grp Cap(c), veh/h	491	3861	2340	1256	562	297
V/C Ratio(X)	0.23	0.29	0.46	0.46	0.32	0.89
Avail Cap(c_a), veh/h	685	3861	2340	1256	562	297
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.7	6.1	11.5	11.5	59.2	63.4
Incr Delay (d2), s/veh	0.2	0.2	0.7	1.2	0.3	26.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	3.9	8.9	9.8	3.2	12.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	9.0	6.3	12.1	12.7	59.5	89.5
LnGrp LOS	A	A	B	B	E	F
Approach Vol, veh/h		1232	1663		442	
Approach Delay, s/veh		6.5	12.3		77.4	
Approach LOS		A	B		E	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	11.0	117.0			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	3.5	25.3			13.0	28.0
Green Ext Time (p_c), s	0.2	20.5			12.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	18.8
HCM 6th LOS	B

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	247	534	78	224	245	95
Future Volume (vph)	247	534	78	224	245	95
Turn Type	NA	pm+ov	Prot	NA	Prot	Prot
Protected Phases	2	8	1	6	8	8
Permitted Phases		2				
Detector Phase	2	8	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	33.0	30.0	17.0	50.0	30.0	30.0
Total Split (%)	41.3%	37.5%	21.3%	62.5%	37.5%	37.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Max	None	None	Max	None	None
Act Effct Green (s)	34.7	57.2	8.8	45.7	16.9	16.9
Actuated g/C Ratio	0.48	0.80	0.12	0.64	0.24	0.24
v/c Ratio	0.30	0.42	0.39	0.20	0.64	0.23
Control Delay	15.6	1.4	35.3	7.0	31.7	6.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	15.6	1.4	35.3	7.0	31.7	6.1
LOS	B	A	D	A	C	A
Approach Delay	5.9			14.3	24.5	
Approach LOS	A			B	C	

Intersection Summary	
Cycle Length: 80	
Actuated Cycle Length: 71.7	
Natural Cycle: 55	
Control Type: Semi Act-Uncoord	
Maximum v/c Ratio: 0.64	
Intersection Signal Delay: 12.1	Intersection LOS: B
Intersection Capacity Utilization 44.9%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 1: Bryan Road & Old Griffin

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	268	580	85	243	266	103
v/c Ratio	0.30	0.42	0.39	0.20	0.64	0.23
Control Delay	15.6	1.4	35.3	7.0	31.7	6.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	15.6	1.4	35.3	7.0	31.7	6.1
Queue Length 50th (ft)	71	3	35	38	106	0
Queue Length 95th (ft)	163	27	79	92	175	33
Internal Link Dist (ft)	969			851	206	
Turn Bay Length (ft)		125	75			150
Base Capacity (vph)	902	1448	310	1188	632	632
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.30	0.40	0.27	0.20	0.42	0.16

Intersection Summary

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	247	534	78	224	245	95
Future Volume (veh/h)	247	534	78	224	245	95
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	268	580	85	243	266	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1035	1165	111	1277	324	
Arrive On Green	0.55	0.55	0.06	0.68	0.18	0.00
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	268	580	85	243	266	0
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	5.0	10.2	3.1	3.2	9.6	0.0
Cycle Q Clear(g_c), s	5.0	10.2	3.1	3.2	9.6	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1035	1165	111	1277	324	
V/C Ratio(X)	0.26	0.50	0.77	0.19	0.82	
Avail Cap(c_a), veh/h	1035	1165	334	1277	682	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	7.8	3.7	30.8	3.9	26.2	0.0
Incr Delay (d2), s/veh	0.6	1.5	10.6	0.3	5.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	5.4	1.6	1.0	4.3	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	8.4	5.2	41.3	4.2	31.3	0.0
LnGrp LOS	A	A	D	A	C	
Approach Vol, veh/h	848			328	266	A
Approach Delay, s/veh	6.2			13.8	31.3	
Approach LOS	A			B	C	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	8.6	41.4			50.0	16.6
Change Period (Y+Rc), s	4.5	4.5			4.5	4.5
Max Green Setting (Gmax), s	12.5	28.5			45.5	25.5
Max Q Clear Time (g_c+I1), s	5.1	12.2			5.2	11.6
Green Ext Time (p_c), s	0.1	3.7			1.5	0.7

Intersection Summary	
HCM 6th Ctrl Delay	12.6
HCM 6th LOS	B

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	4.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	151	97	234	91	54	371
Future Vol, veh/h	151	97	234	91	54	371
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	164	105	254	99	59	403

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	775	254	0	0	353	0
Stage 1	254	-	-	-	-	-
Stage 2	521	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	366	785	-	-	1206	-
Stage 1	788	-	-	-	-	-
Stage 2	596	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	348	785	-	-	1206	-
Mov Cap-2 Maneuver	451	-	-	-	-	-
Stage 1	788	-	-	-	-	-
Stage 2	567	-	-	-	-	-

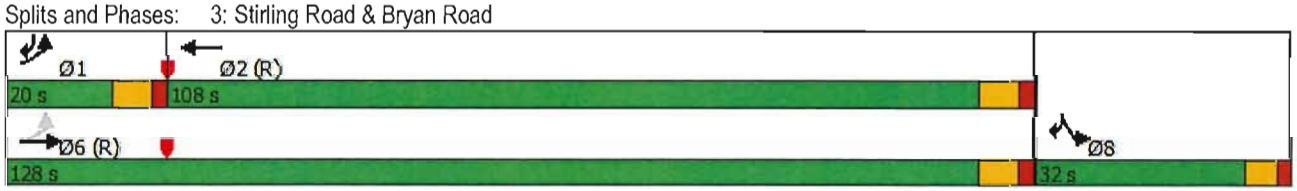
Approach	WB	NB	SB
HCM Control Delay, s	18.1	0	1
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	541	1206	-
HCM Lane V/C Ratio	-	-	0.498	0.049	-
HCM Control Delay (s)	-	-	18.1	8.1	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	2.8	0.2	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	372	1129	1049	142	291
Future Volume (vph)	372	1129	1049	142	291
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	122.0	122.0	103.2	25.0	43.8
Actuated g/C Ratio	0.76	0.76	0.64	0.16	0.27
v/c Ratio	0.59	0.32	0.39	0.29	0.62
Control Delay	9.4	6.6	14.5	59.5	38.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	9.4	6.6	14.5	59.5	38.5
LOS	A	A	B	E	D
Approach Delay		7.3	14.5	45.4	
Approach LOS		A	B	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 65 (41%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.62	
Intersection Signal Delay: 15.3	Intersection LOS: B
Intersection Capacity Utilization 54.9%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	404	1227	1255	154	316
v/c Ratio	0.59	0.32	0.39	0.29	0.62
Control Delay	9.4	6.6	14.5	59.5	38.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	9.4	6.6	14.5	59.5	38.5
Queue Length 50th (ft)	53	133	214	74	200
Queue Length 95th (ft)	86	189	297	104	281
Internal Link Dist (ft)		568	596	380	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	711	3944	3317	602	507
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.57	0.31	0.38	0.26	0.62

Intersection Summary

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	372	1129	1049	106	142	291
Future Volume (veh/h)	372	1129	1049	106	142	291
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	404	1227	1140	115	154	316
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	747	3861	3107	313	562	342
Arrive On Green	0.05	0.76	0.66	0.66	0.16	0.16
Sat Flow, veh/h	3456	5274	4882	475	3456	1585
Grp Volume(v), veh/h	404	1227	823	432	154	316
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1785	1728	1585
Q Serve(g_s), s	5.8	12.3	17.4	17.4	6.3	26.0
Cycle Q Clear(g_c), s	5.8	12.3	17.4	17.4	6.3	26.0
Prop In Lane	1.00			0.27	1.00	1.00
Lane Grp Cap(c), veh/h	747	3861	2244	1176	562	342
V/C Ratio(X)	0.54	0.32	0.37	0.37	0.27	0.92
Avail Cap(c_a), veh/h	843	3861	2244	1176	562	342
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	9.1	6.3	12.3	12.3	58.7	61.4
Incr Delay (d2), s/veh	0.6	0.2	0.5	0.9	0.3	29.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	4.3	6.8	7.3	2.8	15.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	9.7	6.5	12.7	13.1	59.0	91.4
LnGrp LOS	A	A	B	B	E	F
Approach Vol, veh/h		1631	1255		470	
Approach Delay, s/veh		7.3	12.9		80.8	
Approach LOS		A	B		F	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	15.5	112.5			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	7.8	19.4			14.3	28.0
Green Ext Time (p_c), s	0.7	12.4			14.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	19.7
HCM 6th LOS	B

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	359	684	106	253	514	171
Future Volume (vph)	359	684	106	253	514	171
Turn Type	NA	pm+ov	Prot	NA	Prot	Prot
Protected Phases	2	8	1	6	8	8
Permitted Phases		2				
Detector Phase	2	8	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	24.4	24.0	11.4	24.4	24.0	24.0
Total Split (s)	28.0	37.0	15.0	43.0	37.0	37.0
Total Split (%)	35.0%	46.3%	18.8%	53.8%	46.3%	46.3%
Yellow Time (s)	4.4	3.7	4.4	4.4	3.7	3.7
All-Red Time (s)	2.0	2.3	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.0	6.4	6.4	6.0	6.0
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Min	None	None	Min	None	None
Act Effct Green (s)	18.9	55.2	8.5	29.7	27.1	27.1
Actuated g/C Ratio	0.27	0.79	0.12	0.42	0.39	0.39
v/c Ratio	0.78	0.57	0.54	0.35	0.82	0.26
Control Delay	38.5	4.7	44.6	15.1	32.8	4.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	38.5	4.7	44.6	15.1	32.8	4.7
LOS	D	A	D	B	C	A
Approach Delay	16.4			23.8	25.8	
Approach LOS	B			C	C	

Intersection Summary	
Cycle Length: 80	
Actuated Cycle Length: 70.3	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.82	
Intersection Signal Delay: 20.8	Intersection LOS: C
Intersection Capacity Utilization 68.9%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Bryan Road & Old Griffin Road

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	390	743	115	275	559	186
v/c Ratio	0.78	0.57	0.54	0.35	0.82	0.26
Control Delay	38.5	4.7	44.6	15.1	32.8	4.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	38.5	4.7	44.6	15.1	32.8	4.7
Queue Length 50th (ft)	179	72	56	84	244	5
Queue Length 95th (ft)	#312	145	#121	137	#417	43
Internal Link Dist (ft)	969			851	206	
Turn Bay Length (ft)		125	75			150
Base Capacity (vph)	622	1313	235	1054	848	848
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.63	0.57	0.49	0.26	0.66	0.22

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	359	684	106	253	514	171
Future Volume (veh/h)	359	684	106	253	514	171
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	390	743	115	275	559	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	572	1032	147	896	616	
Arrive On Green	0.31	0.31	0.08	0.48	0.35	0.00
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	390	743	115	275	559	0
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	12.9	21.6	4.5	6.3	21.1	0.0
Cycle Q Clear(g_c), s	12.9	21.6	4.5	6.3	21.1	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	572	1032	147	896	616	
V/C Ratio(X)	0.68	0.72	0.78	0.31	0.91	
Avail Cap(c_a), veh/h	572	1032	217	969	781	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	21.5	8.1	31.8	11.3	22.0	0.0
Incr Delay (d2), s/veh	3.3	2.5	10.4	0.2	12.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	13.1	2.3	2.4	10.2	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	24.8	10.5	42.2	11.4	34.3	0.0
LnGrp LOS	C	B	D	B	C	
Approach Vol, veh/h	1133			390	559	A
Approach Delay, s/veh	15.5			20.5	34.3	
Approach LOS	B			C	C	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	12.2	28.0			40.2	30.4
Change Period (Y+Rc), s	6.4	6.4			6.4	6.0
Max Green Setting (Gmax), s	8.6	21.6			36.6	31.0
Max Q Clear Time (g_c+I1), s	6.5	23.6			8.3	23.1
Green Ext Time (p_c), s	0.0	0.0			1.7	1.3

Intersection Summary	
HCM 6th Ctrl Delay	21.5
HCM 6th LOS	C

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	4.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	114	77	325	150	87	661
Future Vol, veh/h	114	77	325	150	87	661
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	124	84	353	163	95	718

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1261	353	0	0	516	0
Stage 1	353	-	-	-	-	-
Stage 2	908	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	188	691	-	-	1050	-
Stage 1	711	-	-	-	-	-
Stage 2	393	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	171	691	-	-	1050	-
Mov Cap-2 Maneuver	283	-	-	-	-	-
Stage 1	711	-	-	-	-	-
Stage 2	358	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	26.3	0	1
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	371	1050	-
HCM Lane V/C Ratio	-	-	0.56	0.09	-
HCM Control Delay (s)	-	-	26.3	8.8	-
HCM Lane LOS	-	-	D	A	-
HCM 95th %tile Q(veh)	-	-	3.3	0.3	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	359	1162	1619	262	643
Future Volume (vph)	359	1162	1619	262	643
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	107.1	107.1	87.1	39.9	59.9
Actuated g/C Ratio	0.67	0.67	0.54	0.25	0.37
v/c Ratio	1.00	0.37	0.70	0.33	1.15
Control Delay	86.1	11.7	27.6	52.5	127.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	86.1	11.7	27.6	52.5	127.7
LOS	F	B	C	D	F
Approach Delay		29.3	27.6	105.9	
Approach LOS		C	C	F	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 86 (54%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.15	
Intersection Signal Delay: 45.2	Intersection LOS: D
Intersection Capacity Utilization 85.1%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	390	1263	1913	285	699
v/c Ratio	1.00	0.37	0.70	0.33	1.15
Control Delay	86.1	11.7	27.6	52.5	127.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	86.1	11.7	27.6	52.5	127.7
Queue Length 50th (ft)	148	197	515	127	~847
Queue Length 95th (ft)	#250	175	481	188	#1211
Internal Link Dist (ft)		568	596	380	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	391	3845	3177	856	608
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	1.00	0.33	0.60	0.33	1.15

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	359	1162	1619	141	262	643
Future Volume (veh/h)	359	1162	1619	141	262	643
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	390	1263	1760	153	285	699
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	480	3861	3161	274	562	340
Arrive On Green	0.05	0.76	0.66	0.66	0.16	0.16
Sat Flow, veh/h	3456	5274	4953	415	3456	1585
Grp Volume(v), veh/h	390	1263	1251	662	285	699
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1796	1728	1585
Q Serve(g_s), s	5.6	12.8	31.5	31.7	12.0	26.0
Cycle Q Clear(g_c), s	5.6	12.8	31.5	31.7	12.0	26.0
Prop In Lane	1.00			0.23	1.00	1.00
Lane Grp Cap(c), veh/h	480	3861	2249	1186	562	340
V/C Ratio(X)	0.81	0.33	0.56	0.56	0.51	2.06
Avail Cap(c_a), veh/h	581	3861	2249	1186	562	340
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.1	6.3	14.6	14.6	61.2	62.8
Incr Delay (d2), s/veh	7.3	0.2	1.0	1.9	0.8	485.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	4.5	12.4	13.4	5.4	59.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	30.4	6.5	15.6	16.5	61.9	548.6
LnGrp LOS	C	A	B	B	E	F
Approach Vol, veh/h		1653	1913		984	
Approach Delay, s/veh		12.2	15.9		407.6	
Approach LOS		B	B		F	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	15.3	112.7			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	7.6	33.7			14.8	28.0
Green Ext Time (p_c), s	0.7	26.5			14.7	0.0

Intersection Summary	
HCM 6th Ctrl Delay	99.3
HCM 6th LOS	F

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	247	567	91	224	304	118
Future Volume (vph)	247	567	91	224	304	118
Turn Type	NA	pm+ov	Prot	NA	Prot	Prot
Protected Phases	2	8	1	6	8	8
Permitted Phases		2				
Detector Phase	2	8	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	24.4	24.0	11.4	24.4	24.0	24.0
Total Split (s)	33.0	30.0	17.0	50.0	30.0	30.0
Total Split (%)	41.3%	37.5%	21.3%	62.5%	37.5%	37.5%
Yellow Time (s)	4.4	3.7	4.4	4.4	3.7	3.7
All-Red Time (s)	2.0	2.3	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.0	6.4	6.4	6.0	6.0
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Min	None	None	Min	None	None
Act Effct Green (s)	14.2	41.0	9.0	25.5	17.1	17.1
Actuated g/C Ratio	0.25	0.72	0.16	0.45	0.30	0.30
v/c Ratio	0.57	0.49	0.35	0.29	0.62	0.23
Control Delay	26.4	3.1	30.2	10.6	24.6	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	26.4	3.1	30.2	10.6	24.6	5.1
LOS	C	A	C	B	C	A
Approach Delay	10.2			16.3	19.2	
Approach LOS	B			B	B	

Intersection Summary	
Cycle Length: 80	
Actuated Cycle Length: 56.6	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.62	
Intersection Signal Delay: 13.9	Intersection LOS: B
Intersection Capacity Utilization 50.6%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 1: Bryan Road & Old Griffin

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	247	567	91	224	304	118
Future Volume (veh/h)	247	567	91	224	304	118
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	268	616	99	243	330	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	669	925	129	1023	403	
Arrive On Green	0.36	0.36	0.07	0.55	0.23	0.00
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	268	616	99	243	330	0
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	5.9	14.5	3.0	3.7	9.6	0.0
Cycle Q Clear(g_c), s	5.9	14.5	3.0	3.7	9.6	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	669	925	129	1023	403	
V/C Ratio(X)	0.40	0.67	0.77	0.24	0.82	
Avail Cap(c_a), veh/h	910	1130	346	1492	782	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	13.2	7.7	24.9	6.4	20.1	0.0
Incr Delay (d2), s/veh	0.4	1.1	9.3	0.1	4.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	7.2	1.5	1.1	4.1	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	13.5	8.8	34.2	6.6	24.3	0.0
LnGrp LOS	B	A	C	A	C	
Approach Vol, veh/h	884			342	330	A
Approach Delay, s/veh	10.3			14.6	24.3	
Approach LOS	B			B	C	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	10.3	26.0			36.3	18.3
Change Period (Y+Rc), s	6.4	6.4			6.4	6.0
Max Green Setting (Gmax), s	10.6	26.6			43.6	24.0
Max Q Clear Time (g_c+I1), s	5.0	16.5			5.7	11.6
Green Ext Time (p_c), s	0.1	3.1			1.5	0.8

Intersection Summary	
HCM 6th Ctrl Delay	14.2
HCM 6th LOS	B

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	5.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	159	97	316	105	54	418
Future Vol, veh/h	159	97	316	105	54	418
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	145	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	173	105	343	114	59	454

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	915	343	0	0	457	0
Stage 1	343	-	-	-	-	-
Stage 2	572	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	303	700	-	-	1104	-
Stage 1	719	-	-	-	-	-
Stage 2	565	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	287	700	-	-	1104	-
Mov Cap-2 Maneuver	406	-	-	-	-	-
Stage 1	719	-	-	-	-	-
Stage 2	535	-	-	-	-	-

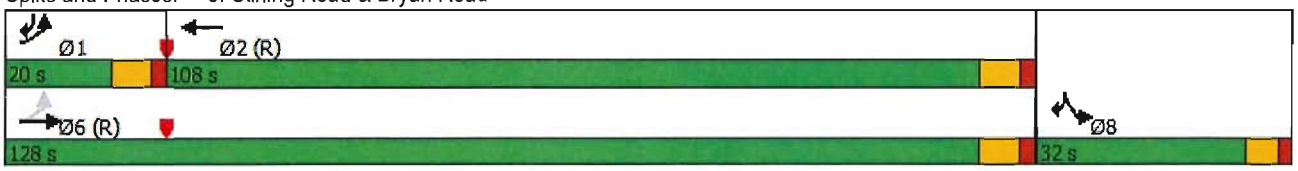
Approach	WB	NB	SB
HCM Control Delay, s	22.1	0	1
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	483	1104	-
HCM Lane V/C Ratio	-	-	0.576	0.053	-
HCM Control Delay (s)	-	-	22.1	8.4	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	3.6	0.2	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	433	1129	1049	172	399
Future Volume (vph)	433	1129	1049	172	399
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	112.7	112.7	90.5	34.3	56.5
Actuated g/C Ratio	0.70	0.70	0.57	0.21	0.35
v/c Ratio	0.71	0.34	0.45	0.25	0.70
Control Delay	16.0	10.0	21.4	51.9	38.9
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	16.0	10.0	21.4	51.9	38.9
LOS	B	A	C	D	D
Approach Delay		11.7	21.4	42.8	
Approach LOS		B	C	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 65 (41%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.71	
Intersection Signal Delay: 20.5	Intersection LOS: C
Intersection Capacity Utilization 58.5%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	433	1129	1049	123	172	399
Future Volume (veh/h)	433	1129	1049	123	172	399
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	471	1227	1140	134	187	434
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	753	3861	3021	355	562	353
Arrive On Green	0.06	0.76	0.65	0.65	0.16	0.16
Sat Flow, veh/h	3456	5274	4801	544	3456	1585
Grp Volume(v), veh/h	471	1227	838	436	187	434
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1772	1728	1585
Q Serve(g_s), s	6.9	12.3	18.2	18.2	7.7	26.0
Cycle Q Clear(g_c), s	6.9	12.3	18.2	18.2	7.7	26.0
Prop In Lane	1.00			0.31	1.00	1.00
Lane Grp Cap(c), veh/h	753	3861	2220	1156	562	353
V/C Ratio(X)	0.63	0.32	0.38	0.38	0.33	1.23
Avail Cap(c_a), veh/h	825	3861	2220	1156	562	353
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	9.9	6.3	12.8	12.8	59.3	62.2
Incr Delay (d2), s/veh	1.3	0.2	0.5	0.9	0.3	125.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	4.3	7.1	7.6	3.4	26.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	11.2	6.5	13.3	13.8	59.7	187.4
LnGrp LOS	B	A	B	B	E	F
Approach Vol, veh/h		1698	1274		621	
Approach Delay, s/veh		7.8	13.5		148.9	
Approach LOS		A	B		F	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	16.7	111.3			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	8.9	20.2			14.3	28.0
Green Ext Time (p_c), s	0.7	12.8			14.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	34.2
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	2.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	86	59	387	61	42	566
Future Vol, veh/h	86	59	387	61	42	566
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	100	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	93	64	421	66	46	615

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1128	421	0	0	487	0
Stage 1	421	-	-	-	-	-
Stage 2	707	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	226	632	-	-	1076	-
Stage 1	662	-	-	-	-	-
Stage 2	489	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	216	632	-	-	1076	-
Mov Cap-2 Maneuver	344	-	-	-	-	-
Stage 1	662	-	-	-	-	-
Stage 2	468	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	18.5	0	0.6
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	422	1076	-
HCM Lane V/C Ratio	-	-	0.373	0.042	-
HCM Control Delay (s)	-	-	18.5	8.5	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	1.7	0.1	-

Intersection	
Int Delay, s/veh	2.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	89	62	386	63	44	608
Future Vol, veh/h	89	62	386	63	44	608
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	100	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	97	67	420	68	48	661

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1177	420	0	0	488	0
Stage 1	420	-	-	-	-	-
Stage 2	757	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	211	633	-	-	1075	-
Stage 1	663	-	-	-	-	-
Stage 2	463	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	202	633	-	-	1075	-
Mov Cap-2 Maneuver	328	-	-	-	-	-
Stage 1	663	-	-	-	-	-
Stage 2	442	-	-	-	-	-

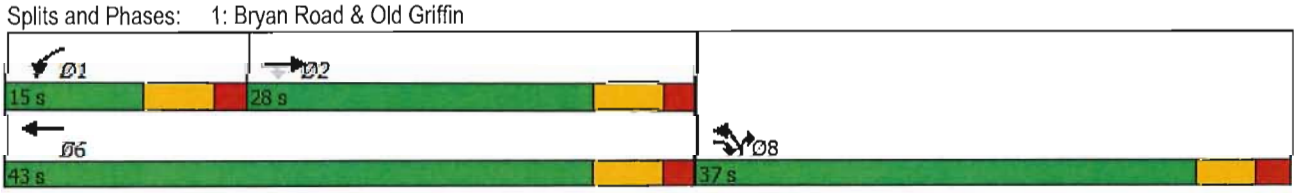
Approach	WB	NB	SB
HCM Control Delay, s	19.6	0	0.6
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	409	1075	-
HCM Lane V/C Ratio	-	-	0.401	0.044	-
HCM Control Delay (s)	-	-	19.6	8.5	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	1.9	0.1	-

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	359	752	133	253	549	185
Future Volume (vph)	359	752	133	253	549	185
Turn Type	NA	pm+ov	Prot	NA	Prot	Prot
Protected Phases	2	8	1	6	8	8
Permitted Phases		2				
Detector Phase	2	8	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	24.4	24.0	11.4	24.4	24.0	24.0
Total Split (s)	28.0	37.0	15.0	43.0	37.0	37.0
Total Split (%)	35.0%	46.3%	18.8%	53.8%	46.3%	46.3%
Yellow Time (s)	4.4	3.7	4.4	4.4	3.7	3.7
All-Red Time (s)	2.0	2.3	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.0	6.4	6.4	6.0	6.0
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Min	None	None	Min	None	None
Act Effct Green (s)	19.2	54.8	8.5	34.2	29.1	29.1
Actuated g/C Ratio	0.25	0.72	0.11	0.45	0.38	0.38
v/c Ratio	0.82	0.68	0.74	0.33	0.88	0.28
Control Delay	43.3	7.6	57.9	15.1	38.8	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	43.3	7.6	57.9	15.1	38.8	5.2
LOS	D	A	E	B	D	A
Approach Delay	19.1			29.9	30.4	
Approach LOS	B			C	C	

Intersection Summary	
Cycle Length: 80	
Actuated Cycle Length: 75.8	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.88	
Intersection Signal Delay: 24.7	Intersection LOS: C
Intersection Capacity Utilization 72.3%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Bryan Road & Old Griffin



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	390	817	145	275	597	201
v/c Ratio	0.82	0.68	0.74	0.33	0.88	0.28
Control Delay	43.3	7.6	57.9	15.1	38.8	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	43.3	7.6	57.9	15.1	38.8	5.2
Queue Length 50th (ft)	179	120	72	84	269	9
Queue Length 95th (ft)	#312	223	#164	137	#462	49
Internal Link Dist (ft)	969			851	206	
Turn Bay Length (ft)		125	75			150
Base Capacity (vph)	536	1237	203	909	731	755
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.73	0.66	0.71	0.30	0.82	0.27

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	359	752	133	253	549	185
Future Volume (veh/h)	359	752	133	253	549	185
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	390	817	145	275	597	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	537	1028	181	885	645	
Arrive On Green	0.29	0.29	0.10	0.47	0.36	0.00
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	390	817	145	275	597	0
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	14.1	21.6	6.0	6.8	24.2	0.0
Cycle Q Clear(g_c), s	14.1	21.6	6.0	6.8	24.2	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	537	1028	181	885	645	
V/C Ratio(X)	0.73	0.79	0.80	0.31	0.93	
Avail Cap(c_a), veh/h	537	1028	204	910	734	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	24.2	8.4	33.1	12.2	23.1	0.0
Incr Delay (d2), s/veh	4.9	4.4	18.5	0.2	16.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.7	16.0	3.4	2.7	12.4	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	29.1	12.8	51.6	12.4	39.6	0.0
LnGrp LOS	C	B	D	B	D	
Approach Vol, veh/h	1207			420	597	A
Approach Delay, s/veh	18.1			25.9	39.6	
Approach LOS	B			C	D	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	14.0	28.0			42.0	33.2
Change Period (Y+Rc), s	6.4	6.4			6.4	6.0
Max Green Setting (Gmax), s	8.6	21.6			36.6	31.0
Max Q Clear Time (g_c+I1), s	8.0	23.6			8.8	26.2
Green Ext Time (p_c), s	0.0	0.0			1.7	1.0

Intersection Summary	
HCM 6th Ctrl Delay	25.3
HCM 6th LOS	C

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	5.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	130	77	373	158	87	757
Future Vol, veh/h	130	77	373	158	87	757
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	145	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	141	84	405	172	95	823

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1418	405	0	0	577	0
Stage 1	405	-	-	-	-	-
Stage 2	1013	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	151	646	-	-	996	-
Stage 1	673	-	-	-	-	-
Stage 2	351	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 137	646	-	-	996	-
Mov Cap-2 Maneuver	249	-	-	-	-	-
Stage 1	673	-	-	-	-	-
Stage 2	318	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	38.2	0	0.9
HCM LOS	E		

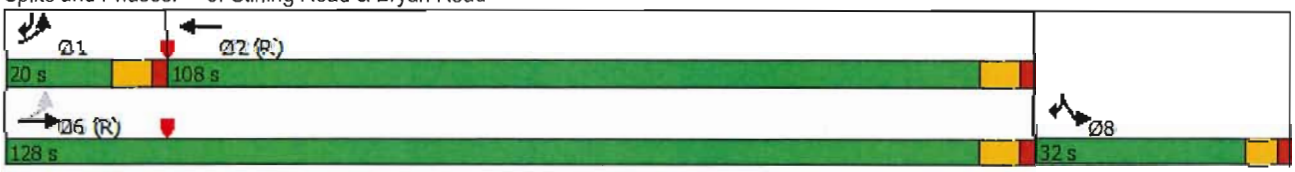
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	323	996	-
HCM Lane V/C Ratio	-	-	0.697	0.095	-
HCM Control Delay (s)	-	-	38.2	9	-
HCM Lane LOS	-	-	E	A	-
HCM 95th %tile Q(veh)	-	-	4.9	0.3	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	485	1162	1619	280	706
Future Volume (vph)	485	1162	1619	280	706
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	108.7	108.7	88.7	38.3	58.3
Actuated g/C Ratio	0.68	0.68	0.55	0.24	0.36
v/c Ratio	1.36	0.37	0.70	0.37	1.29
Control Delay	212.2	11.0	26.8	54.2	183.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	212.2	11.0	26.8	54.2	183.7
LOS	F	B	C	D	F
Approach Delay		70.3	26.8	146.9	
Approach LOS		E	C	F	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 86 (54%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.36	
Intersection Signal Delay: 69.7	Intersection LOS: E
Intersection Capacity Utilization 89.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	527	1263	1951	304	767
v/c Ratio	1.36	0.37	0.70	0.37	1.29
Control Delay	212.2	11.0	26.8	54.2	183.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	212.2	11.0	26.8	54.2	183.7
Queue Length 50th (ft)	~309	190	519	138	~1014
Queue Length 95th (ft)	#418	168	483	202	#1379
Internal Link Dist (ft)		568	596	552	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	388	3845	3170	822	593
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	1.36	0.33	0.62	0.37	1.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	485	1162	1619	176	280	706
Future Volume (veh/h)	485	1162	1619	176	280	706
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	527	1263	1760	191	304	767
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	549	3861	2953	319	562	386
Arrive On Green	0.08	0.76	0.63	0.63	0.16	0.16
Sat Flow, veh/h	3456	5274	4846	506	3456	1585
Grp Volume(v), veh/h	527	1263	1279	672	304	767
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1779	1728	1585
Q Serve(g_s), s	11.8	12.8	35.5	35.8	12.9	26.0
Cycle Q Clear(g_c), s	11.8	12.8	35.5	35.8	12.9	26.0
Prop In Lane	1.00			0.28	1.00	1.00
Lane Grp Cap(c), veh/h	549	3861	2149	1123	562	386
V/C Ratio(X)	0.96	0.33	0.60	0.60	0.54	1.99
Avail Cap(c_a), veh/h	549	3861	2149	1123	562	386
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.5	6.3	17.4	17.5	61.5	60.5
Incr Delay (d2), s/veh	28.4	0.2	1.2	2.4	1.1	452.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.0	4.5	14.2	15.3	5.8	64.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	64.9	6.5	18.6	19.8	62.6	513.0
LnGrp LOS	E	A	B	B	E	F
Approach Vol, veh/h		1790	1951		1071	
Approach Delay, s/veh		23.7	19.1		385.2	
Approach LOS		C	B		F	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	20.0	108.0			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	13.8	37.8			14.8	28.0
Green Ext Time (p_c), s	0.0	27.1			14.7	0.0

Intersection Summary	
HCM 6th Ctrl Delay	102.3
HCM 6th LOS	F

Intersection						
Int Delay, s/veh	2.2					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	65	45	522	119	82	861
Future Vol, veh/h	65	45	522	119	82	861
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	100	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	71	49	567	129	89	936

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1681	567	0	0	696	0
Stage 1	567	-	-	-	-	-
Stage 2	1114	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	104	523	-	-	900	-
Stage 1	568	-	-	-	-	-
Stage 2	314	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	94	523	-	-	900	-
Mov Cap-2 Maneuver	209	-	-	-	-	-
Stage 1	568	-	-	-	-	-
Stage 2	283	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	27.5	0	0.8
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	277	900	-
HCM Lane V/C Ratio	-	-	0.432	0.099	-
HCM Control Delay (s)	-	-	27.5	9.4	-
HCM Lane LOS	-	-	D	A	-
HCM 95th %tile Q(veh)	-	-	2.1	0.3	-

Intersection	
Int Delay, s/veh	3.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	89	47	594	123	86	840
Future Vol, veh/h	89	47	594	123	86	840
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	100	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	97	51	646	134	93	913

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1745	646	0	0	780	0
Stage 1	646	-	-	-	-	-
Stage 2	1099	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	~ 95	472	-	-	837	-
Stage 1	522	-	-	-	-	-
Stage 2	319	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 84	472	-	-	837	-
Mov Cap-2 Maneuver	202	-	-	-	-	-
Stage 1	522	-	-	-	-	-
Stage 2	284	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	37.7	0	0.9
HCM LOS	E		

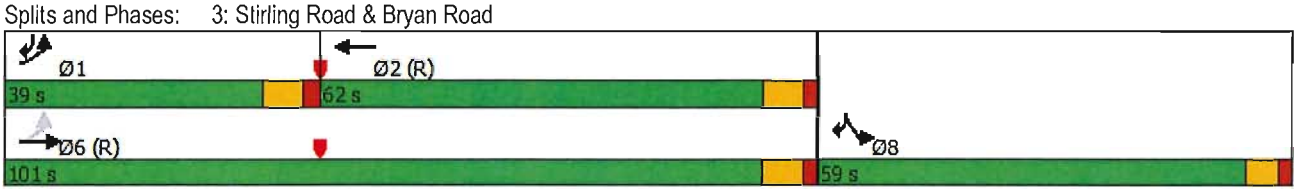
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	252	837	-
HCM Lane V/C Ratio	-	-	0.587	0.112	-
HCM Control Delay (s)	-	-	37.7	9.8	-
HCM Lane LOS	-	-	E	A	-
HCM 95th %tile Q(veh)	-	-	3.4	0.4	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	433	1129	1049	172	399
Future Volume (vph)	433	1129	1049	172	399
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	39.0	101.0	62.0	59.0	
Total Split (%)	24.4%	63.1%	38.8%	36.9%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	107.5	107.5	79.0	39.5	68.0
Actuated g/C Ratio	0.67	0.67	0.49	0.25	0.42
v/c Ratio	0.65	0.36	0.51	0.22	0.64
Control Delay	17.9	12.4	30.0	47.2	38.4
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	17.9	12.4	30.0	47.2	38.4
LOS	B	B	C	D	D
Approach Delay		14.0	30.0	41.1	
Approach LOS		B	C	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 65 (41%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.65	
Intersection Signal Delay: 24.3	Intersection LOS: C
Intersection Capacity Utilization 58.5%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	471	1227	1274	187	434
v/c Ratio	0.65	0.36	0.51	0.22	0.64
Control Delay	17.9	12.4	30.0	47.2	38.4
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	17.9	12.4	30.0	47.2	38.4
Queue Length 50th (ft)	91	193	324	80	344
Queue Length 95th (ft)	165	270	456	106	372
Internal Link Dist (ft)		568	596	552	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	921	3416	2476	1137	775
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.51	0.36	0.51	0.16	0.56

Intersection Summary

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	433	1129	1049	123	172	399
Future Volume (veh/h)	433	1129	1049	123	172	399
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	471	1227	1140	134	187	434
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	687	3319	2424	285	929	558
Arrive On Green	0.08	0.65	0.52	0.52	0.27	0.27
Sat Flow, veh/h	3456	5274	4801	544	3456	1585
Grp Volume(v), veh/h	471	1227	838	436	187	434
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1772	1728	1585
Q Serve(g_s), s	9.6	17.7	24.9	24.9	6.7	39.1
Cycle Q Clear(g_c), s	9.6	17.7	24.9	24.9	6.7	39.1
Prop In Lane	1.00			0.31	1.00	1.00
Lane Grp Cap(c), veh/h	687	3319	1781	927	929	558
V/C Ratio(X)	0.69	0.37	0.47	0.47	0.20	0.78
Avail Cap(c_a), veh/h	1091	3319	1781	927	1145	657
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.6	12.9	24.1	24.1	45.2	46.3
Incr Delay (d2), s/veh	1.2	0.3	0.9	1.7	0.1	5.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	6.9	10.4	11.0	2.9	16.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	19.8	13.2	25.0	25.8	45.3	51.3
LnGrp LOS	B	B	C	C	D	D
Approach Vol, veh/h		1698	1274		621	
Approach Delay, s/veh		15.0	25.3		49.5	
Approach LOS		B	C		D	

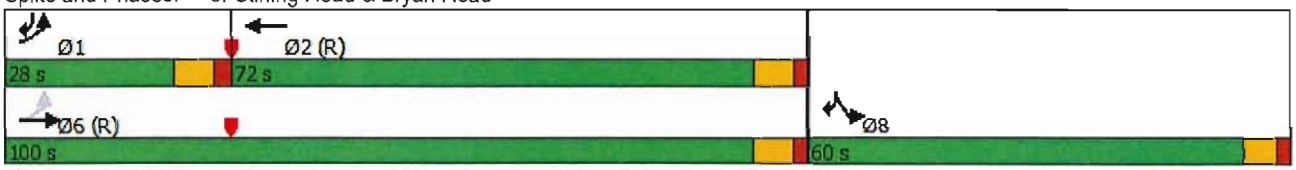
Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	20.3	90.7			111.0	49.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	32.0	55.0			94.0	53.0
Max Q Clear Time (g_c+I1), s	11.6	26.9			19.7	41.1
Green Ext Time (p_c), s	1.7	10.5			13.8	1.9

Intersection Summary	
HCM 6th Ctrl Delay	24.6
HCM 6th LOS	C

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	485	1162	1619	280	706
Future Volume (vph)	485	1162	1619	280	706
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	28.0	100.0	72.0	60.0	
Total Split (%)	17.5%	62.5%	45.0%	37.5%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	93.0	93.0	65.0	54.0	82.0
Actuated g/C Ratio	0.58	0.58	0.41	0.34	0.51
v/c Ratio	0.97	0.43	0.95	0.26	0.94
Control Delay	81.4	19.2	57.5	39.3	57.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	81.4	19.2	57.5	39.3	57.6
LOS	F	B	E	D	E
Approach Delay		37.5	57.5	52.4	
Approach LOS		D	E	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 86 (54%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 48.9	Intersection LOS: D
Intersection Capacity Utilization 89.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	527	1263	1951	304	767
v/c Ratio	0.97	0.43	0.95	0.26	0.94
Control Delay	81.4	19.2	57.5	39.3	57.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	81.4	19.2	57.5	39.3	57.6
Queue Length 50th (ft)	235	260	717	119	741
Queue Length 95th (ft)	#356	295	#806	160	#1038
Internal Link Dist (ft)		568	596	552	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	541	2955	2043	1158	812
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.97	0.43	0.95	0.26	0.94

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	485	1162	1619	176	280	706
Future Volume (veh/h)	485	1162	1619	176	280	706
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	527	1263	1760	191	304	767
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	564	2968	1900	205	1166	743
Arrive On Green	0.13	0.58	0.41	0.41	0.34	0.34
Sat Flow, veh/h	3456	5274	4846	506	3456	1585
Grp Volume(v), veh/h	527	1263	1279	672	304	767
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1779	1728	1585
Q Serve(g_s), s	19.0	22.0	57.2	57.7	10.2	54.0
Cycle Q Clear(g_c), s	19.0	22.0	57.2	57.7	10.2	54.0
Prop In Lane	1.00			0.28	1.00	1.00
Lane Grp Cap(c), veh/h	564	2968	1383	723	1166	743
V/C Ratio(X)	0.94	0.43	0.92	0.93	0.26	1.03
Avail Cap(c_a), veh/h	564	2968	1383	723	1166	743
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.5	18.6	45.2	45.3	38.5	42.5
Incr Delay (d2), s/veh	23.1	0.4	11.8	20.2	0.1	41.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.5	8.9	26.3	29.4	4.4	37.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	74.5	19.1	57.0	65.5	38.6	84.1
LnGrp LOS	E	B	E	E	D	F
Approach Vol, veh/h		1790	1951		1071	
Approach Delay, s/veh		35.4	59.9		71.2	
Approach LOS		D	E		E	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	28.0	72.0			100.0	60.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	21.0	65.0			93.0	54.0
Max Q Clear Time (g_c+I1), s	21.0	59.7			24.0	56.0
Green Ext Time (p_c), s	0.0	4.6			14.4	0.0

Intersection Summary	
HCM 6th Ctrl Delay	53.3
HCM 6th LOS	D

Arborist Report

Dania Beach Marina Redevelopment
Dania Beach, Florida

Prepared for:
Dania Beach Marina Corporation
90 North Bryan Road
Dania Beach, FL 33004

148823009
June 2020
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Arborist Report

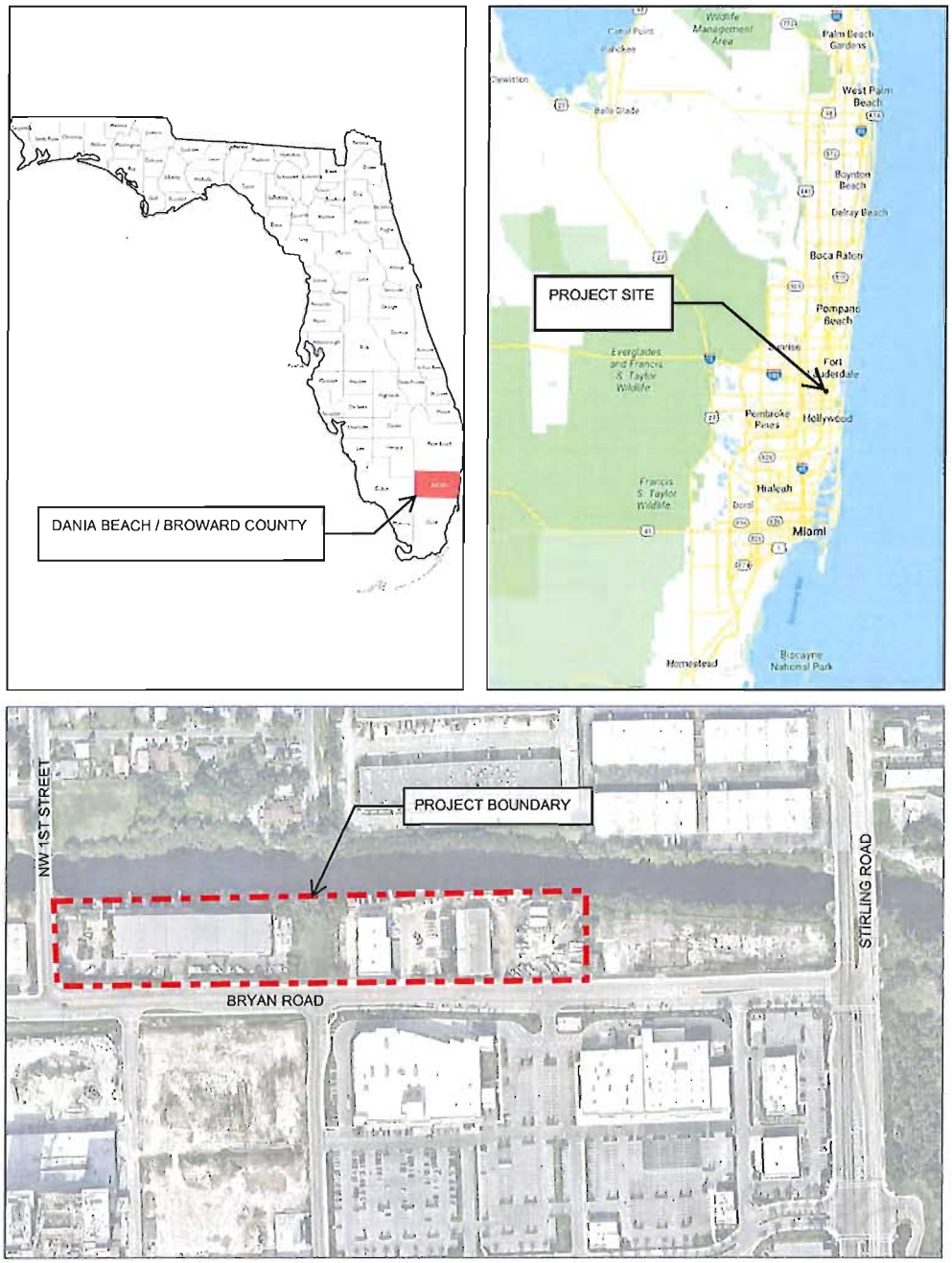
Dania Beach Marina Redevelopment
Dania Beach, Florida

1.0 INTRODUCTION

Kimley-Horn and Associates, Inc. has performed an observation of existing trees on the approximate 6± acre property located at 90 North Bryan Road, 70 and 50 South Bryan Road in the city of Dania Beach, Florida. A location map is attached as ***Figure 1.*** A certified arborist performed a field visit on June 16th and June 17th 2020 to observe and document the condition of existing trees and palms on the subject property. The observation data was performed and recorded per the Guide for Plant Appraisal, 10th Edition, as established by the Council of Tree and Landscape Appraisers (CTLA). Kimley-Hom used a "Tree Condition Evaluation Form" to determine the specific condition points for each physical attribute described below. Evaluations were based upon visual observations from the ground surface only. Based on these attributes a "Tree Condition Ranking" (Excellent, Good, Fair, Poor) was determined from the sum of the condition points, which consists of:

- Root structure and health (above ground visual observation)
- Trunk structure and health
- Scaffold branches structure and health
- Small branch and twig health
- Foliage and bud health

FIGURE 1: LOCATION MAP



2.0 GENERAL OBSERVATIONS

The subject property consists of mostly Sabal palm (*Sabal palmetto*), Live oak (*Quercus virginiana*), and Mahogany (*Swietenia mahagnoni*), with Green buttonwood (*Conocarpus erectus*), Gumbo-limbo (*Bursera simaruba*), Royal palm (*Roystonea regia*), Coconut palm (*Cocos* nucifera), Beautyleaf (*Calophyllum inophyllum*), Silver buttonwood (*Conocarpus erectus 'Sericeus'*), Bald cypress (*Taxodium distitchum*), Mexican fan palm (*Washingtonia robusta*) and Royal poinciana (*Delonix regia*) dispersed throughout the remainder of the site. In addition to the protected trees listed above, Red mangrove (*Rhizophora* mangle) buffers a large portion of the canal. Invasive species such as Brazilian pepper (*Schinus* terebinthifolia), Earleaf acacia (*Acacia auriculiformis*) and Tropical almond tree (*Terminalia catappa*) were observed along the North property line (adjacent to NW 1st Street) and the East property line (adjacent to the existing canal). Site photos are attached as ***Figure 3.***

The subject property is currently used for boat storage and maintenance, as well as a restaurant and bar along the canal. Most of the trees located within the parking and storage areas are distressed from compacted soils and observed nutrient deficiencies due to almost all the parking areas being compacted gravel. The property shows no signs of recent maintenance, with several trees exhibiting poor branching structure, broken limbs, and a few younger trees being uprooted or leaning. Several trees located along the canal or directly adjacent to impervious areas have exposed root systems or girdling roots. A few palms and trees growing adjacent to storage/parking areas were observed to have mechanical or vehicular damage to the trunks. Overall, the majority of existing palms on-site are in EXCELLENT or GOOD condition, whereas most of the existing trees on-site are in GOOD or FAIR condition. A Tree Condition Assessment is attached as ***Figure 2.***

FIGURE 2: TREE CONDITION ASSESSMENT

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1066	Sabal palm	18' CT	91%	Excellent	
1067	Sabal palm	7' CT	94%	Excellent	
1068	Tropical almond tree	4	91%	Excellent	Invasive 2
1076	Pigeon plum	12	69%	Fair	
1077	Silver buttonwood	8,4,4,3	66%	Fair	
1078	Silver buttonwood	4,4,4	66%	Fair	
1079	Pigeon plum	12	88%	Excellent	
1080	Silver buttonwood	4,4,4,3	63%	Fair	
1081	Sabal palm	20' CT	94%	Excellent	
1082	Sabal palm	20' CT	94%	Excellent	
1083	Sabal palm	20' CT	91%	Excellent	
1084	Sabal palm	26' CT	94%	Excellent	
1085	Sabal palm	20' CT	91%	Excellent	
1086	Sabal palm	20' CT	91%	Excellent	
1087	Live oak	10	75%	Good	
1088	Live oak	10	69%	Fair	
1089	Live oak	11	72%	Good	
1090	Silver buttonwood	3,3,3,3,3	66%	Fair	
1091	Sabal palm	30' CT	88%	Excellent	
1092	Sabal palm	22' CT	88%	Excellent	
1093	Sabal palm	14' CT	91%	Excellent	
1094	Live oak	10	75%	Good	
1095	Live oak	23	75%	Good	
1096	Live oak	20	66%	Fair	
1097	Sabal palm	20' CT	88%	Excellent	
1098	Sabal palm	18' CT	91%	Excellent	
1099	Sabal palm	16' CT	88%	Excellent	
1100	Live oak	8	66%	Fair	
1201	Live oak	10	63%	Fair	
1202	Live oak	8	78%	Good	
1203	Sabal palm	20' CT	91%	Excellent	
1204	Sabal palm	18' CT	91%	Excellent	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1205	Sabal palm	16' CT	91%	Excellent	
1206	Live oak	10	81%	Good	
1207	Live oak	13	84%	Good	
1208	Washingtonia palm	55' CT	97%	Excellent	Invasive 2
1209	Washingtonia palm	55' CT	97%	Excellent	Invasive 2
1210	Sabal palm	30' CT	81%	Good	
1211	Sabal palm	22' CT	88%	Excellent	
1212	Sabal palm	18' CT	84%	Good	
1213	Sabal palm	25' CT	91%	Excellent	
1214	Sabal palm	22' CT	91%	Excellent	
1215	Sabal palm	38' CT	91%	Excellent	
1216	Sabal palm	30' CT	91%	Excellent	
1217	Sabal palm	22' CT	91%	Excellent	
1218	Sabal palm	20' CT	91%	Excellent	
1219	Washingtonia palm	55' CT	100%	Excellent	Invasive 2
1220	Washingtonia palm	55' CT	100%	Excellent	Invasive 2
1221	Washingtonia palm	55' CT	75%	Good	Invasive 2
1222	Live oak	8	72%	Good	
1223	Live oak	8	69%	Fair	
1224	Sabal palm	12' CT	88%	Excellent	
1225	Sabal palm	14' CT	88%	Excellent	
1226	Sabal palm	16' CT	84%	Good	
1227	Sabal palm	18' CT	91%	Excellent	
1228	Sabal palm	20' CT	91%	Excellent	
1229	Sabal palm	24' CT	91%	Excellent	
1230	Sabal palm	30' CT	91%	Excellent	
1231	Sabal palm	20' CT	91%	Excellent	
1232	Sabal palm	18' CT	91%	Excellent	
1233	Live oak	10	72%	Good	
1234	Live oak	8	66%	Fair	
1235	Live oak	10	72%	Good	
1236	Sabal palm	16' CT	88%	Excellent	
1237	Sabal palm	16' CT	88%	Excellent	
1238	Sabal palm	22' CT	81%	Good	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1239	Sabal palm	16' CT	94%	Excellent	
1240	Sabal palm	20' CT	94%	Excellent	
1241	Sabal palm	28' CT	94%	Excellent	
1242	Gumbo-limbo	11	75%	Good	
1243	Gumbo-limbo	13	91%	Excellent	
1244	Gumbo-limbo	8	88%	Excellent	
1245	Gumbo-limbo	12	88%	Excellent	
1246	Gumbo-limbo	12	94%	Excellent	
1247	Gumbo-limbo	10	63%	Fair	
1248	Gumbo-limbo	13	81%	Good	
1249	Gumbo-limbo	8	75%	Good	
1250	Green buttonwood	7	66%	Fair	
1251	Royal poinciana	13	56%	Fair	Ganoderma fungus on trunk and lower limbs
1252	Green buttonwood	20	59%	Fair	
1253	Seagrape	6,6,4	63%	Fair	
1254	Live oak	6	81%	Good	
1255	Live oak	4	81%	Good	
1256	Live oak	3	81%	Good	
1257	Live oak	12	69%	Fair	
1258	Live oak	16	69%	Fair	
1259	Green buttonwood	8	66%	Fair	
1260	Green buttonwood	8	66%	Fair	
1261	Coconut palm	25' CT	97%	Excellent	Invasive 2
1262	Coconut palm	30' CT	97%	Excellent	Invasive 2
1263	Coconut palm	30' CT	97%	Excellent	Invasive 2
1264	Live oak	12	75%	Good	
1265	Live oak	5	75%	Good	
1266	Live oak	11	75%	Good	
1267	Sabal palm	6' CT	100%	Excellent	
1268	Gumbo-limbo	3	88%	Excellent	
1269	Gumbo-limbo	11	66%	Fair	
1270	Sabal palm	12' CT	91%	Excellent	
1271	Sabal palm	12' CT	91%	Excellent	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1272	Sabal palm	12' CT	91%	Excellent	
1273	Gumbo-limbo	10	56%	Fair	
1274	Beautyleaf	10	75%	Good	
1275	Green buttonwood	9	78%	Good	
1276	Green buttonwood	13	59%	Fair	
1277	Green buttonwood	18	72%	Good	
1278	Coconut palm	16' CT	91%	Excellent	Invasive 2
1279	Coconut palm	30' CT	94%	Excellent	Invasive 2
1280	Coconut palm	26' CT	94%	Excellent	Invasive 2
1281	Coconut palm	26' CT	94%	Excellent	Invasive 2
1282	Coconut palm	26' CT	97%	Excellent	Invasive 2
1283	Live oak	6	78%	Good	
1284	Live oak	5	69%	Fair	
1285	Live oak	4	75%	Good	
1286	Live oak	4	72%	Good	
1287	Sabal palm	6' CT	94%	Excellent	
1288	Live oak	4	72%	Good	
1289	Live oak	4	81%	Good	
1290	Live oak	4	81%	Good	
1291	Live oak	4	81%	Good	
1292	Live oak	4	81%	Good	
1293	Live oak	4	81%	Good	
1294	Silver buttonwood	5	66%	Fair	
1295	Silver buttonwood	3	66%	Fair	
1296	Sabal palm	18' CT	94%	Excellent	
1297	Sabal palm	18' CT	94%	Excellent	
1298	Sabal palm	18' CT	94%	Excellent	
1299	Earleaf acacia	9,3,7	72%	Good	Invasive 1
1300	Live oak	5	94%	Excellent	
1301	Sabal palm	16' CT	100%	Excellent	
1302	Piccabean palm	20' CT	100%	Excellent	
1303	Piccabean palm	20' CT	100%	Excellent	
1304	Sabal palm	10' CT	100%	Excellent	
1305	Sabal palm	10' CT	100%	Excellent	
1306	Sabal palm	10' CT	100%	Excellent	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1307	Sabal palm	10' CT	100%	Excellent	
1308	Mahogany	6	88%	Excellent	
1309	Mahogany	5	91%	Excellent	
1310	Mahogany	5	84%	Good	
1311	Mahogany	6	72%	Good	
1312	Mahogany	6	81%	Good	
1313	Mahogany	8	78%	Good	
1314	Sabal palm	14' CT	100%	Excellent	
1315	Sabal palm	14' CT	100%	Excellent	
1316	Sabal palm	14' CT	100%	Excellent	
1317	Mahogany	11	66%	Fair	
1318	Green buttonwood	13	72%	Good	
1319	Green buttonwood	9	72%	Good	
1320	Green buttonwood	9	72%	Good	
1321	Green buttonwood	11	69%	Fair	
1322	Green buttonwood	10	69%	Fair	
1323	Green buttonwood	8	66%	Fair	
1324	Green buttonwood	7	59%	Fair	
1325	Live oak	9	72%	Good	
1326	Sabal palm	16' CT	94%	Excellent	
1327	Bald cypress	3	72%	Good	
1328	Bald cypress	5	88%	Excellent	
1329	Bald cypress	3	88%	Excellent	
1330	Mahogany	8	84%	Good	
1331	Mahogany	8	72%	Good	
1332	Mahogany	8	75%	Good	
1333	Sabal palm	18' CT	100%	Excellent	
1334	Sabal palm	18' CT	100%	Excellent	
1335	Sabal palm	18' CT	100%	Excellent	
1336	Royal palm	24' GW	94%	Excellent	
1337	Royal palm	24' GW	94%	Excellent	
1338	Royal palm	24' GW	94%	Excellent	
1339	Royal palm	20' GW	94%	Excellent	
1340	Royal palm	24' GW	94%	Excellent	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1341	Royal palm	14' GW	94%	Excellent	
1342	Royal palm	14' GW	72%	Good	
1343	Mahogany	4	84%	Good	
1344	Mahogany	4	91%	Excellent	
1345	Mahogany	4	88%	Excellent	
1346	Mahogany	4	59%	Fair	
1347	Mahogany	4	97%	Excellent	
1348	Mahogany	4	88%	Excellent	
1349	Mahogany	4	75%	Good	
1350	Sabal palm	26' CT	91%	Excellent	
1351	Sabal palm	20' CT	94%	Excellent	
1352	Mahogany	4	81%	Good	
1353	Mahogany	3	59%	Fair	
1354	Mahogany	4	100%	Excellent	
1355	Sabal palm	12' CT	84%	Good	
1356	Mahogany	4	100%	Excellent	
1357	Sabal palm	14' CT	94%	Excellent	
1358	Mahogany	4	84%	Good	
1359	Sabal palm	14' CT	94%	Excellent	
1360	Mahogany	3	72%	Good	
1361	Live oak	12	66%	Fair	
1362	Sabal palm	14' CT	94%	Excellent	
1363	Live oak	13	69%	Fair	
1364	Mahogany	3	97%	Excellent	
1365	Sabal palm	10' CT	94%	Excellent	
1366	Live oak	11	59%	Fair	
1367	Live oak	12	59%	Fair	

TREE #1066, #1067

TREE #1068

TREE #1076

TREE #1077, #1078

TREE #1079

Kimley»Horn

TREE #1080

TREE #1081, #1082, #1083

TREE #1084, #1085, #1086

TREE #1087

TREE #1088, #1089

TREE #1090

TREE #1091, #1092, #1093, #1094

TREE #1095, #1096

TREE #1097, #1098, #1099, #1100

TREE #1201

TREE #1202

TREE #1203, #1204, #1205

TREE #1206

TREE #1207

TREE #1208, #1209

TREE #1210, #1211, #1212

TREE #1213, #1214, #1215, #1216, #1217, #1218

TREE #1219, #1220, #1221

TREE #1222

TREE #1223

TREE #1224, #1225, #1226

TREE #1227, #1228, #1229, #1230, #1231, #1232

TREE #1233

TREE #1234, #1235

TREE #1236, #1237, #1238

TREE #1239, #1240, #1241

TREE #1242

Kimley»Horn

TREE #1243, #1244, #1245, #1246, #1247

TREE #1248

TREE #1249

TREE #1250

TREE #1251

Kimley»Horn

TREE #1252

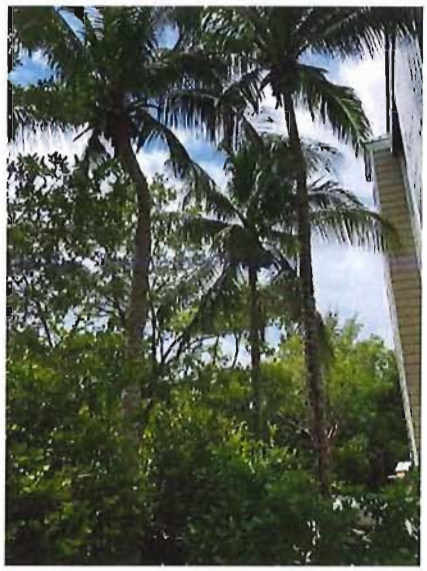
TREE #1253

TREE #1254, #1255, #1256, #1257

TREE #1258, #1259

TREE #1260

TREE #1261, #1262, #1263



TREE #1264, #1265, #1266, #1267

TREE #1268, #1269

Kimley»Horn

TREE #1270, #1271, #1272

TREE #1273, #1274

TREE #1275, #1276, #1277

TREE #1278, #1279, #1280, #1281, #1282

TREE #1283

TREE #1284, #1285

TREE #1286, #1287

TREE #1288, #1289

TREE #1290, #1291, #1292, #1293

TREE #1294, #1295, #1296, #1299

TREE #1297, #1298

Kimley»Horn

TREE #1300

TREE #1301

TREE #1302

TREE #1303

TREE #1304

TREE #1305, #1306, #1307

Kimley»Horn

TREE #1308

TREE #1309

TREE #1310, #1311, #1312, #1313

TREE #1314, #1315, #1316

TREE #1317

TREE #1318, #1319

TREE #1320, #1321

TREE #1322

TREE #1323

TREE #1324

Kimley»Horn

TREE #1325

TREE #1326

TREE #1327, #1328, #1329

TREE #1330

Kimley»Horn

TREE #1331

TREE #1332, #1333, #1334, #1335

TREE #1336, #1337, #1338, #1339, #1340, #1341, #1342

TREE #1343

TREE #1344

Kimley»Horn

TREE #1345

TREE #1346

TREE #1347

TREE #1348

TREE #1349, #1350, #1351

TREE #1352

TREE #1353

TREE #1354, #1355, #1356, #1357

TREE #1358, #1359

TREE #1360

TREE #1362

TREE #1361, #1362, #1363

TREE #1365

TREE #1366, #1367

4.0 TREE OBSERVATION DISCLAIMER

The only trees which were analyzed, observed, or considered are those trees specifically listed in this report. Unless specifically contracted to do so, this observation does not include a tree risk assessment. The field observations performed from the ground by Kimley-Horn for trees included within this report were considered only for signs and symptoms which were or are highly visible, as indicators of a stressed, declining, or risk trees. Defects which may exist underground, internally in the tree(s), or only visible from an aerial assessment could not and were not considered in this analysis. Trees subject to this report were analyzed from the ground and no aerial inspections were made. This report and analysis have been made using generally accepted arboriculture techniques which include a visual examination only. Reasonable efforts have been made to ensure that the trees recommended for retention are healthy; however, no guarantees are offered, or implied, that these trees, including branches, etc. will remain standing. It is professionally impossible to predict with absolute certainty the behavior of any tree or groups of trees in all given circumstances. The conclusions and analysis included within this report are valid as to the date of inspection only. Degradation and other risk factors affecting trees can and do occur at any time. Kimley-Horn affirms that the opinions have been made in total good faith, based on the facts presented during the field inspection. Problems not apparent upon visual inspection cannot be and were not noted. All trees of concern should be monitored on an annual basis or after a significant or adverse weather event for new or deteriorating conditions. All tree work shall be performed by a Certified Arborist with the International Society of Arboriculture.

Please do not hesitate to contact us with any questions or comments on this evaluation.

Sincerely,

Matthew Dunn, ISA CA

Florida Registration Numbers: FL-9326A

CA 00000696

K:\SAR_URG\147706000 - Dania Beach Marina\ARBORICULTURE\Arborist Report

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Resolution

Continued from: October 13, 2020

Requested Action (Identify appropriate Action or Motion)
ADOPT RESOLUTION APPROVING THE PLAT NOTE AMENDMENT DELEGATION REQUEST APPLICATION (DR-072-20) SUBMITTED BY KIMLEY-HORN AND ASSOCIATES, INC. ON BEHALF OF DANIA BEACH MARINA CORP. FOR PROPERTY PLATTED UNDER THE BRYAN ROAD WAREHOUSES PLAT LOCATED AT 90 N. BRYAN ROAD IN THE CITY OF DANIA BEACH, FLORIDA, AS SUCH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT "A", A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
CM DR-072-20 Wave 90 Plat, SR DR-072-20 Wave 90, R-2020- Dania Beach Marina Corp. Plat Note Amendment Delegation Request (DR-072-20), Wave 90 (Location Map), DR-072-20 Application and Backup OPT

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, Director
Corinne Lajoie, AICP, Assistant Director

Eleanor Norena
Digitally signed by Eleanor Norena
DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US
Date: 2020.11.19 10:55:00 -05'00'

Corinne Lajoie
Digitally signed by Corinne Lajoie
DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development, email=clajoie@daniabeachfl.gov, c=US
Date: 2020.11.16 15:22:43 -05'00'

SUBJECT: **DR-072-20:** The applicant, Kimley-Horn and Associates, Inc., on behalf of the property owner Dania Beach Marina Corp., is requesting a plat note delegation approval for the property located at 90 North Bryan Road.

Request

To amend the note on the plat to allow 380 high-rise dwelling units and 19,700 square feet of commercial use.

Background

This application has been reviewed by the Development Review Committee on September 24, 2020. Additionally, a Site Plan application has also been submitted for this property which is being processed separately.

On October 13, 2020 the City Commission continued this item to allow the applicant time to resolve the adjacent North West Byrd Point residents' concerns.

Budgetary Impact

Approval of the plat will allow the opportunity for the redevelopment of the site.

Recommendation

Approve the plat application.

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT

DATE: December 8, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistance Director

Eleanor Norena

Corinne Lajoie

Digitally signed by Corinne Lajoie
DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development, email=clajoie@daniabeachfl.gov, c=US
Date: 2020.11.16 15:25:29 -05'00'

SUBJECT: **DR-072-20:** The applicant, Kimley-Horn and Associates, Inc., on behalf of the property owner Dania Beach Marina Corp., is requesting a plat note delegation approval for the property located at 90 North Bryan Road.

Request

To amend the note on the plat to allow 380 high-rise dwelling units and 19700 square feet of commercial use.

PROPERTY INFORMATION

EXISTING ZONING:	Planned Small Lot Mixed Use Development District (PMUD-SL)
LAND USE DESIGNATION:	Regional Activity Center (RAC)
SITE ACREAGE:	4.69 gross acres/3.04 net acres
EXISTING USE:	Marine sales
VIOLATIONS ON PROPERTY:	None

PUBLIC HEARING NOTICE
This item was duly advertised, posted, and noticed pursuant to Article 610 of the Land Development Code.

Background

PLAT NOTE AMENDMENT
The applicant is requesting to plat the subject properties in preparation for a site plan development. The applicant is requesting to allow 380 high-rise dwelling units and 19,700 square feet of commercial space.

FROM: This plat is restricted to 40,000 square feet of industrial use and 1,298 square feet of commercial use.

TO: This plat is restricted to 380 high rise units and 48,000 square feet of commercial use.

DEVELOPMENT REVIEW COMMITTEE (DRC)
This application has been reviewed by the Development Review Committee on September 24, 2020. Additionally, a Site Plan application has also been submitted for this property, which is being processed separately.

CITY COMMISSION PREVIOUS ACTION
On October 28, 2019 the City Commission changed the zoning on the property from Industrial, Research, Office, Marine (IROM) to Planned Small Lot Mixed-Use Development District (PMUD-SL).

On October 13, 2020 the City Commission continued this item to allow the applicant time to resolve the adjacent North West Byrd Point residents' concerns.

Recommendation
Approve the resolution.

RESOLUTION NO. 2020-126

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE PLAT NOTE AMENDMENT DELEGATION REQUEST APPLICATION (DR-072-20) SUBMITTED BY KIMLEY-HORN AND ASSOCIATES, INC. ON BEHALF OF DANIA BEACH MARINA CORP. FOR PROPERTY PLATTED UNDER THE BRYAN ROAD WAREHOUSES PLAT LOCATED AT 90 N. BRYAN ROAD IN THE CITY OF DANIA BEACH, FLORIDA, AS SUCH PROPERTY IS LEGALLY DESCRIBED IN EXHIBIT "A", A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Kimley-Horn and Associates, Inc. on behalf of DANIA BEACH MARINA CORP. ("Applicant"), is requesting approval of a plat note delegation request for the property located at 90 N. Bryan Road in the City of Dania Beach, Florida, as such property is legally described in Exhibit "A"; and

WHEREAS, the City Code of Ordinances, Chapter 28 "Land Development Code" (the "LDC"), Part 6 "Development Review Procedures and Requirements", Article 640 "Plats", Section 640-70 "Amendment of plat" states that subsequent to City Commission approval of a plat, the plat may be amended by the City Commission; and

WHEREAS, the Applicant is requesting approval of a plat note amendment delegation request to amend the Bryan Road Warehouses Plat ("Plat"), recorded in Plat Book 170, Page 112 of the Public Records of Broward County, Florida to allow the construction of up to 380 high rise units and 48,000 square feet of commercial use on Parcel "A" of the Plat ("Plat Note Amendment"); and

WHEREAS, staff recommended approval of the requested application in the staff report dated October 13, 2020; and

WHEREAS, the City Commission conducted a duly noticed public hearing in accordance with Article 610 of the LDC; and

WHEREAS, the City Commission finds that the approval of the Plat Note Amendment Delegation Request (DR-072-20) will protect the health, safety, and welfare of the residents of the City, and furthers the purpose, goals, objectives and policies of the Comprehensive Plan;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the foregoing "WHEREAS" clauses are ratified and confirmed as being true and correct and they are made a specific part of this Resolution.

Section 2. That pursuant to Chapter 28, "Land Development Code," Part 6 "Development Review Procedures and Requirements," Section 640-70 "Amendment of plat", the City approves Plat Note Amendment Delegation Request (DR-072-20) to modify the plat note restriction as follows:

> FROM: This plat is restricted to 40,000 square feet of industrial use and 1,298 square feet of commercial use.
>
> TO: This plat is restricted to 380 high rise units and 48,000 square feet of commercial use.

Section 3. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 4. That this Resolution shall be in force and take effect immediately upon its passage and adoption.

PASSED AND ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

EXHIBIT "A"

LEGAL DESCRIPTION

ALL OF PARCEL A, BRYAN ROAD WAREHOUSES, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

56-20
72-20

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PROPERTY

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Feet
510 680

DANIA BEACH
SEA IT LIVE IT LOVE IT

City of Dania Beach, Florida
Department of Community Development
Planning and Zoning Division
(954) 924-6805 X3643
(954) 922-2687 Fax

Standard Development Application

- ☐ **Administrative Variance**
- ☐ **Land Use Amendment**
- ☐ **Plat**
- ☐ **Rezoning**
- ☐ **Site Plan**
- ☐ **Special Exception**
- ☐ **Variance**
- ☒ **Other:** Plat Note Amendment and NVAL *(SEE APPLICATION TYPE SCHEDULE ON PAGES 3 & 4)*

Date Rec'd: _____

Petition No.: DR-072-20

THIS APPLICATION WILL NOT BE ACCEPTED UNTIL IT IS COMPLETE AND SUBMITTED WITH ALL NECESARY DOCUMENTS. Refer to the application type at the top of this form and **"Required Documentation"** checklist to determine the supplemental documents required with each application.
For after the fact applications, the responsible contractor of record shall be present at the board hearing. Their failure to attend may impact upon the disposition of your application. As always, the applicant or their authorized legal agent must be present at all meetings. All projects must also obtain a building permit from the City Building Division. For more information please reference the **Dania Beach Land Development Code Part 6, Development Review Procedures and Requirements.**

Location Address: 90 N Bryan Road, Dania Beach, FL 33004

Lot(s): _____ Block: _____ Subdivision: _____

Recorded Plat Name: Bryan Road Warehouses

Folio Number(s): 504233510010 Legal Description: BRYAN ROAD WAREHOUSES 170-112 B PARCEL A TOG WITH 40 FT STRIP OF LAND LYING ADJ TO & CONTIGUOUS WITH ELY BDY OF PAR A

Applicant/Consultant/Legal Representative **(circle one)** Kimley-Horn and Associates, Inc. - Jacob B. Lawson

Address of Applicant: 445 24th Street, Suite 200, Vero Beach, FL 32960

Business Telephone: 772-794-4100 Home: _____ Fax: _____

E-mail address: jacob.lawson@kimley-horn.com

Name of Property Owner: Please see attached

Address of Property Owner: Please see attached

Business Telephone: _____ Home: _____ Fax: _____

Explanation of Request: _____
*For **Plats** please provide proposed **Plat Name** for **Variances** please attach **Criteria Statement** as per **Section 625.40 of the Land Development Code.***

Prop. Net Acreage: 2.75 Gross Acreage: 2.91 Prop. Square Footage: _____

Existing Use: Industrial Proposed Use: Residential and Commercial

Is property owned individually, by a corporation, association, or a joint venture?
Corporation

AUTHORIZED REPRESENTATIVE

I/we are fully aware of the request being made to the City of Dania Beach. If I/We are unable to be present, I/we hereby authorize Kimley-Horn and Associates, Inc **(individual/firm) to represent me/us in all matters related to this application. I/we hereby acknowledge that the applicable fee was established to offset administrative costs and is not refundable.**

I/we are fully aware that all approvals automatically expire within 12 months of City of Dania Beach Planning and Zoning Board or City Commission approval, or pursuant to the expiration timeframe listed in Part 6 of the Dania Beach Land Development Code.

STATE OF FLORIDA
COUNTY OF BROWARD
The foregoing instrument was acknowledged

By: _____
(Owner / Agent signature*)

BEFORE ME THIS 19 **DAY OF** June, **20** 20

By:

Michael Lilly
(Print name of person acknowledging)

_____
(Joint owner signature if applicable)

Notary _____

(Signature of Notary Public – State of Florida**)**

RENEE MARIE SMITH
MY COMMISSION # GG066359
EXPIRES January 25, 2021

Personally known X **or Produced Identification** _____

Type of identification produced: _____ **or Drivers License** _____

***If joint ownership, both parties must sign. If partnership, corporation or association, an authorized officer must sign on behalf of the group. A notarized letter of authorization from the owner of record must accompany the application if an authorized agent signs for the owner(s).**

NO APPLICATION WILL BE AUTOMATICALLY SCHEDULED FOR A MEETING.

ALL APPLICATIONS MUST BE DETERMINED COMPLETE BY STAFF BEFORE PROCESSING OCCURS.

Kimley»Horn

Attachment to Development Application – Dania Beach Marina Redevelopment Site Plan

Dania Beach Marina Corp.	
Location Address	90 N. Bryan Road, Dania Beach, FL 33004
Recorded Plat Name	Bryan Road Warehouses Plat (PB 170/112)
Folio Number	5042-33-00-0610
Legal Description	Please see the attached legal description.
Name of Property Owner	Dania Beach Marina Corp.
Address of Property Owner	90 N. Bryan Road, Dania Beach, FL 33004
Business Telephone	786-344-6032

Kimley»Horn

September 2, 2020

Plat Note Amendment Narrative

Bryan Road Warehouses
(PB 170, PG 112)

The most recent plat note amendment was approved on August 27, 2019 by the Broward County Commission. The current note reads as follow:

> This plat is restricted to 40,000 square feet of industrial use and 1,298 square feet of commercial use.

The proposed note will read as follow:

> This plat is restricted to 380 high rise units and 48,000 square feet of commercial use.

Kimley»Horn

September 2, 2020

Non-Vehicular Access Line (NVAL) Amendment

Bryan Road Warehouses
(PB 170, PG 112)

Dania Beach Marina Corp ("Developer") is the developer of the property included on the BRYAN ROAD WAREHOUSES Plat, recorded in Plat Book 170, Page 112 of the Public Records of Broward County, Florida ("Plat"). The Plat is located on the southeast corner of NW 1st Street and Bryan Road, in the City of Dania Beach.

The Developer is proposing to amend the existing Non-Vehicular Access Line to correspond with the driveway connection on the site plan, which is currently under review by the City.

Specifically, the Developer is proposing to close the existing 50-foot access opening approximately 293-feet north of the southern plat limit, revise the existing non-vehicular access line along the western plat limit to be generally parallel to Bryan Road at an average distance of 63-feet, and create a new 50-foot access opening centered approximately 95-feet north of the southern plat limit.

Exhibit "A" provides the legal description and a sketch and legal description of the existing NVAL is attached as Exhibit "B". A sketch and legal description of the proposed NVAL is attached as Exhibit "C".

EXHIBIT "A"

LEGAL DESCRIPTION

ALL OF PARCEL A, BRYAN ROAD WAREHOUSES, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SKETCH AND LEGAL DESCRIPTION
BY
PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
TELEPHONE: (954) 572-1777 • E-MAIL: surveys@pulicelandsurveyors.com
CERTIFICATE OF AUTHORIZATION LB#3870

EXHIBIT "B"

DESCRIPTION OF EXISTING NON-VEHICULAR ACCESS LINE AT "BRYAN ROAD WAREHOUSES"

LEGAL DESCRIPTION:

A NON–VEHICULAR ACCESS LINE ALONG THE BOUNDARY OF PARCEL "A", "BRYAN ROAD WAREHOUSES", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID PARCEL "A"; THENCE ALONG THE BOUNDARY OF SAID PARCEL "A" THE FOLLOWING FOUR COURSES AND DISTANCES: 1) SOUTH 87°30'33" WEST 150.20 FEET; 2) NORTH 46°59'41" WEST 41.91 FEET; 3) NORTH 07°35'30" EAST 71.99 FEET; 4) NORTH 01°29'55" WEST 167.00 FEET TO A POINT OF TERMINATION; THENCE CONTINUE NORTH 01°29'55" WEST ALONG SAID BOUNDARY 50.00 FEET; THENCE SOUTH 88°30'05" WEST ALONG SAID BOUNDARY 12.00 FEET TO A POINT OF BEGINNING; THENCE ALONG SAID BOUNDARY OF PARCEL "A" THE FOLLOWING FIVE COURSES AND DISTANCES: 1) NORTH 01°29'55" WEST 20.35 FEET; 2) NORTH 07°35'30" EAST 75.95 FEET; 3) NORTH 01°29'55" WEST 150.00 FEET; 4) NORTH 42°59'20" EAST 42.05 FEET; 5) NORTH 87°28'35" EAST 147.43 FEET TO THE POINT OF TERMINATION.

SAID LANDS LYING AND BEING IN THE CITY OF DANIA BEACH, BROWARD COUNTY, FLORIDA,.

NOTES:

1. BEARINGS ARE BASED ON AN ASSUMED MERIDIAN WITH THE SOUTH LINE OF PARCEL "A" BEING S87°30'33"W.
2. THIS IS NOT A SKETCH OF SURVEY AND DOES NOT REPRESENT A FIELD SURVEY.
3. THIS SKETCH IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

FILE: DANIA BEACH MARINA CORP.	
SCALE: N/A	DRAWN: DCW
ORDER NO.: 67591	
DATE: 9/1/20	
EXISTING NON-VEHICULAR ACCESS LINE	
DANIA BEACH, BROWARD COUNTY, FL	
FOR: DANIA BEACH MARINA	

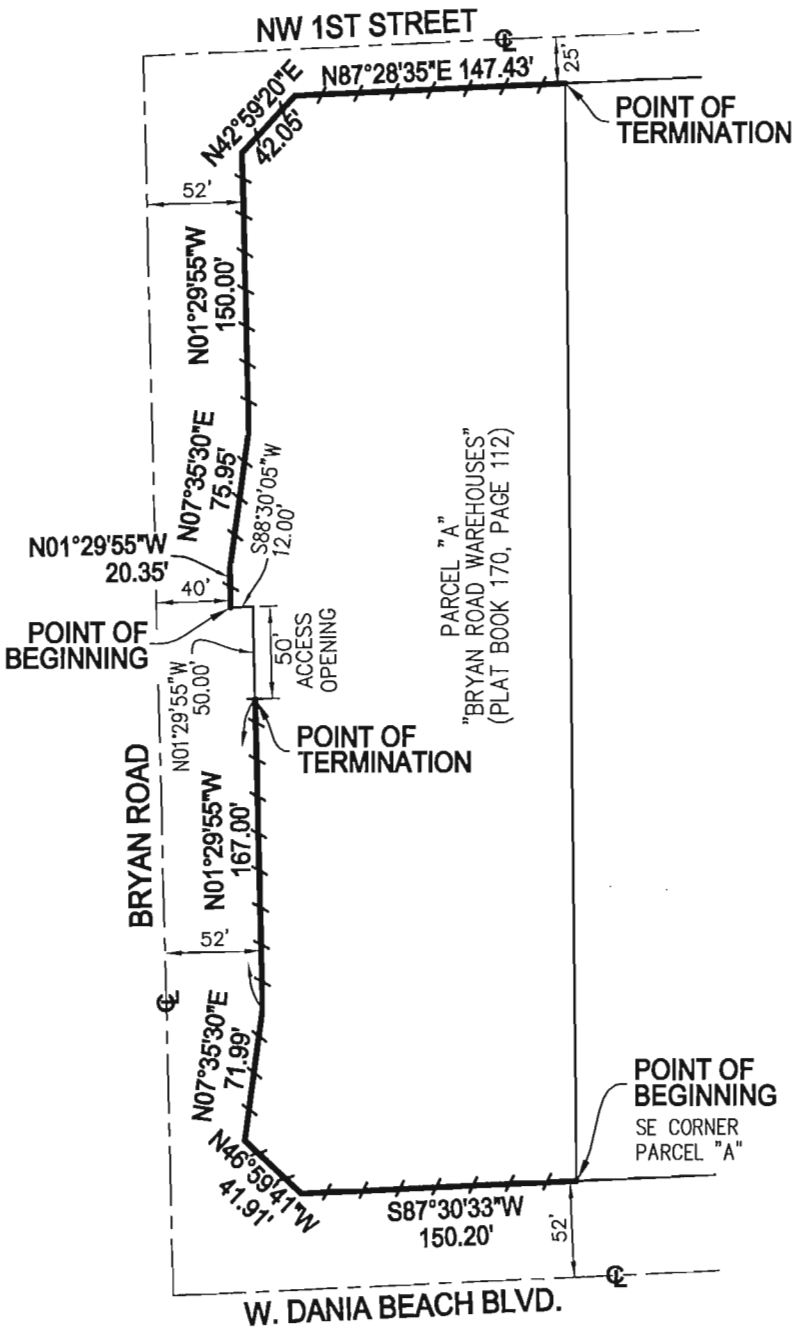
THIS DOCUMENT IS NEITHER FULL NOR COMPLETE WITHOUT SHEETS 1 AND 2

☐ JOHN F. PULICE, PROFESSIONAL SURVEYOR AND MAPPER LS2691
☐ BETH BURNS, PROFESSIONAL SURVEYOR AND MAPPER LS6136
☐ VICTOR R. GILBERT, PROFESSIONAL SURVEYOR AND MAPPER LS6274
☐ DONNA C. WEST, PROFESSIONAL SURVEYOR AND MAPPER LS4290
STATE OF FLORIDA

SKETCH AND LEGAL DESCRIPTION
BY

PULICE LAND SURVEYORS, INC.

5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
TELEPHONE: (954) 572-1777 • E-MAIL: surveys@pulicelandsurveyors.com
CERTIFICATE OF AUTHORIZATION LB#3870



FILE: DANIA BEACH MARINA CORP.	
SCALE: 1"=100'	DRAWN: DCW
ORDER NO.: 67591	
DATE: 9/1/20	
EXISTING NON-VEHICULAR ACCESS LINE	
DANIA BEACH, BROWARD COUNTY, FL	
FOR: DANIA BEACH MARINA	

SHEET 2 OF 2

THIS DOCUMENT IS NEITHER FULL NOR COMPLETE WITHOUT SHEETS 1 AND 2

LEGEND:
℄ = CENTERLINE
—/—/— = NON-VEHICULAR ACCESS LINE

SKETCH AND LEGAL DESCRIPTION
BY
PULICE LAND SURVEYORS, INC.
5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
TELEPHONE: (954) 572-1777 • E-MAIL: surveys@pulicelandsurveyors.com
CERTIFICATE OF AUTHORIZATION LB#3870

EXHIBIT "C"

DESCRIPTION OF PROPOSED NON-VEHICULAR ACCESS LINE AT "BRYAN ROAD WAREHOUSES"

LEGAL DESCRIPTION:

A NON–VEHICULAR ACCESS LINE ALONG AND WITHIN THE BOUNDARY OF PARCEL "A", "BRYAN ROAD WAREHOUSES", ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID PARCEL "A"; THENCE SOUTH 87°30'33" WEST ALONG THE SOUTH LINE OF SAID PARCEL "A" 150.20 FEET; THENCE NORTH 46°59'41" WEST ALONG THE BOUNDARY OF SAID PARCEL "A" 10.29 FEET; THENCE NORTH 01°29'29" WEST 63.00 FEET TO A POINT OF TERMINATION; THENCE CONTINUE NORTH 01°29'29" WEST 50.00 FEET TO A POINT OF BEGINNING; THENCE CONTINUE NORTH 01°29'29" WEST 292.23 FEET; THENCE NORTH 03°24'41" WEST 156.57 FEET; THENCE NORTH 42°59'20" EAST ALONG SAID BOUNDARY OF PARCEL "A" 33.48 FEET; THENCE NORTH 87°28'35" EAST ALONG THE NORTH LINE OF SAID PARCEL "A" 147.43 FEET TO THE POINT OF TERMINATION.

SAID LANDS LYING AND BEING IN THE CITY OF DANIA BEACH, BROWARD COUNTY, FLORIDA,.

NOTES:

1. BEARINGS ARE BASED ON AN ASSUMED MERIDIAN WITH THE SOUTH LINE OF PARCEL "A" BEING S87°30'33"W.
2. THIS IS NOT A SKETCH OF SURVEY AND DOES NOT REPRESENT A FIELD SURVEY.
3. THIS SKETCH IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

FILE: DANIA BEACH MARINA CORP.	
SCALE: N/A	DRAWN: DCW
ORDER NO.: 67591	
DATE: 9/1/20	
PROPOSED NON-VEHICULAR ACCESS LINE	
DANIA BEACH, BROWARD COUNTY, FL	
FOR: DANIA BEACH MARINA	

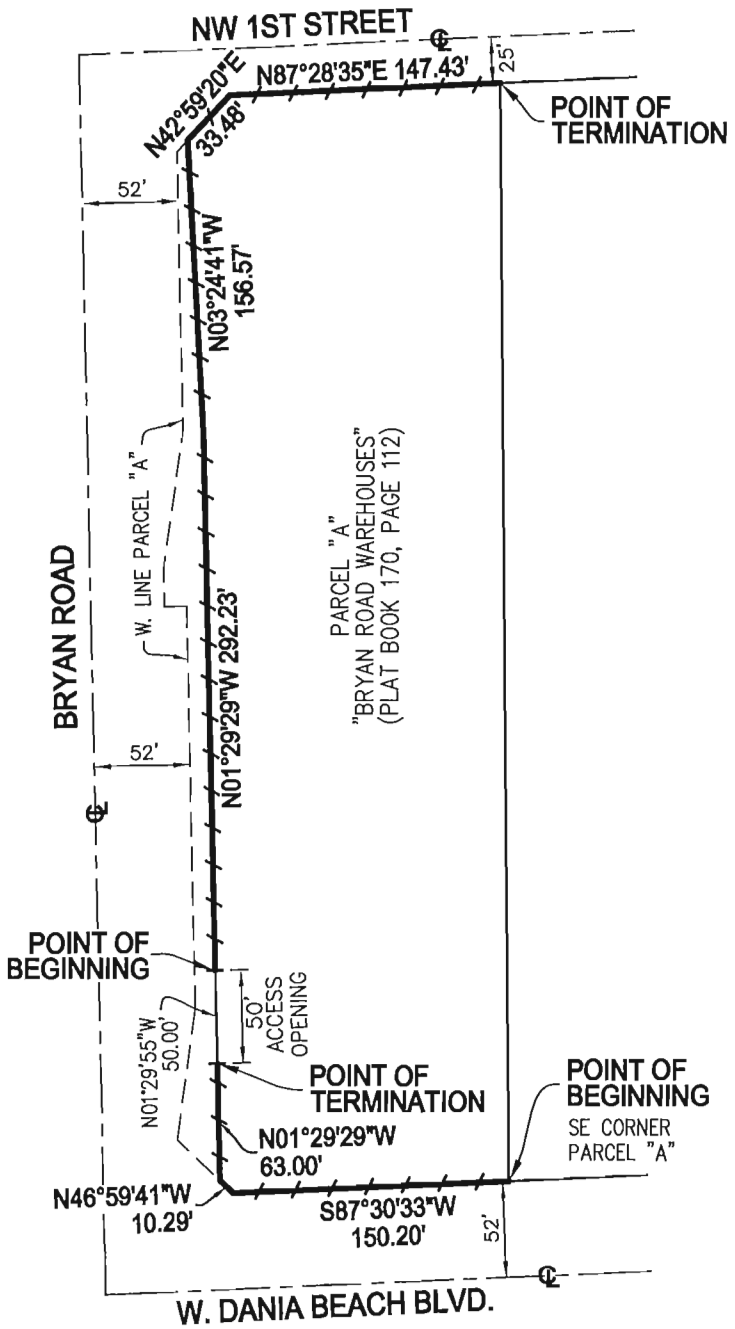
THIS DOCUMENT IS NEITHER FULL NOR COMPLETE WITHOUT SHEETS 1 AND 2

☐ JOHN F. PULICE, PROFESSIONAL SURVEYOR AND MAPPER LS2691
☐ BETH BURNS, PROFESSIONAL SURVEYOR AND MAPPER LS6136
☐ VICTOR R. GILBERT, PROFESSIONAL SURVEYOR AND MAPPER LS6274
☐ DONNA C. WEST, PROFESSIONAL SURVEYOR AND MAPPER LS4290
STATE OF FLORIDA

SKETCH AND LEGAL DESCRIPTION
BY

PULICE LAND SURVEYORS, INC.

5381 NOB HILL ROAD
SUNRISE, FLORIDA 33351
TELEPHONE: (954) 572-1777 • E-MAIL: surveys@pulicelandsurveyors.com
CERTIFICATE OF AUTHORIZATION LB#3870



FILE: DANIA BEACH MARINA CORP.	
SCALE: 1"=100'	DRAWN: DCW
ORDER NO.: 67591	
DATE: 9/1/20	
PROPOSED NON-VEHICULAR ACCESS LINE	
DANIA BEACH, BROWARD COUNTY, FL	
FOR: DANIA BEACH MARINA	

SHEET 2 OF 2

THIS DOCUMENT IS NEITHER FULL NOR COMPLETE WITHOUT SHEETS 1 AND 2

LEGEND:
℄ = CENTERLINE
—/—/— = NON-VEHICULAR ACCESS LINE

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Resolution

Continued from: October 13, 2020

Requested Action (Identify appropriate Action or Motion)
ADOPT RESOLUTION APPROVING THE DEVELOPMENT DESIGN GUIDELINES (DDG) AND SITE PLAN (SP-024-20) SUBMITTED BY KIMLEY-HORN AND ASSOCIATES, ON BEHALF OF NV MARINA HOLDINGS LLC AND RJ MARINA HOLDINGS LLC, FOR PROPERTY GENERALLY LOCATED AT 50 AND 70 S. BRYAN ROAD WITHIN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
CM SP-024-20 Wave 70 Plat, SR SP-024-20 Wave 70, R-2020- 70 Wave NV Marina Holdings and RJ Marina Holdings Development Design Guidelines (DDG) and Site Plan (SP-024-20), WAVE DDG - AKA Dania Beach Marina, Wave 70 Revised Site Plan OPT, Wave 70 (Location Map), Wave 90 & 70 Traffic Impact Analysis, Wave 70 App & Backup, Wave 90 & 70 Arborist Report

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistant Director

Eleanor Norena Digitally signed by Eleanor Norena DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US Date: 2020.11.17 12:09:11 -05'00'

Corinne Lajoie Digitally signed by Corinne Lajoie DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development, email=clajoie@daniabeachfl.gov, c=US Date: 2020.11.16 12:23:34 -05'00'

SUBJECT: **SP-024-20:** The applicant, Kimley-Horn and Associates, Inc. – Jacob B. Lawson, on behalf of the property owner RJ Holdings LLC & NV Marina Holdings LLC, is requesting a site plan approval for a fifteen (15) story mixed-use building located at 50 and 70 Bryan Road.

Request

SITE PLAN

To allow the construction of a mixed use, high-rise building containing 380 dwelling units and 19,700 square feet of commercial use.

Background

The Development Review Committee has reviewed this application on July 30, 2020 and August 27, 2020. Additionally, a Plat application has also been submitted for this property, which is being processed separately.

On October 13, 2020 the City Commission continued this item to allow the applicant time to resolve the adjacent North West Byrd Point residents concerns.

Budgetary Impact

Approval of the site plan will allow the opportunity for the redevelopment of the site, which will increase the taxable value of the property.

Recommendation

Approve the site plan with conditions identified in the resolution.

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT

DATE: December 8, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistance Director

SUBJECT: **SP-024-20:** The applicant, Kimley-Horn and Associates, Inc. – Jacob B. Lawson, on behalf of the property owner RJ Holdings LLC and NV Marina Holdings LLC, is requesting a site plan approval for a fifteen (15) story, mixed-use building located at 50 and 70 Bryan Road.

Request

SITE PLAN

To allow the construction of a mixed use, high-rise building containing 380 dwelling units and 19,700 square feet of commercial use.

PROPERTY INFORMATION

EXISTING ZONING:	Planned Small Lot Mixed Use Development District (PMUD-SL)
LAND USE DESIGNATION:	Regional Activity Center (RAC)
SITE ACREAGE:	4.69 gross acres/3.04 net acres
EXISTING USE:	Marine sales
VIOLATIONS ON PROPERTY:	None

PUBLIC HEARING NOTICE

This item was duly advertised, posted, and noticed pursuant to Article 610 of the Land Development Code.

Background

On October 13, 2020 the City Commission continued this item to allow the applicant time to resolve the North West Byrd Point residents' concerns.

This property is one of two sites proposed for identical redevelopment project, both located on the east side of Bryan Road. The applicant is proposing the construction of a fifteen (15) story, mixed-use

building with commercial and work-live units on the ground level, two (2) levels of parking decks, and twelve (12) levels of multi-family units above. The project shows a pedestrian connection on the east side of the property, along the canal, which will continue south to the previously approved mixed use project located at the corner of Bryan Road and Stirling Road.

DEVELOPMENT DESIGN GUIDELINES (DDG)

The Planned Small Lot Unit Development (PMUD-SL) regulations require the applicant to submit a Development Design Guidelines (DDG) at the time of Site Plan submittal, establishing the development regulations for the project. This is a similar process as the Planned Mixed Use Development (PMUD) zoning regulations, which Dania Pointe is zoned.

In the proposed DDG, the applicant identifies development regulations for the project, which includes permitted uses, lot coverage, building placement/setbacks, height, parking, lighting, minimum unit size, landscaping, signage, and architectural standards. Where the DDG are silent, the City's Land Development Code (LDC) shall apply.

Staff has asked the applicant to address how noise emitted from the site will be mitigated to reduce disturbing the residents of the NW Byrd Point neighborhood. The DDG now prohibits outdoor music, signing and entertainment between the hours of 10:00PM - 10:00AM on weekdays and between the hours of 11:00PM and 10:00AM on weekends.

SITE PLAN

At staff's request, the applicant has met with the North West Byrd Point Civic Association on August 20, 2020. The applicant indicated that conversations with the Association and residents are ongoing.

Since the October 13, 2020 City Commission meeting the applicant has reduced the height of the structure from 210' to 188' by reducing the commercial space from 48,000 square feet to 19,700 square feet and relocating the work-live units to the ground floor.

The City's Transportation Engineer has accepted the traffic study provided.

As part of this development and in accordance with the City's Code of Ordinances, the applicant is required to pay several fees, including the following:

- Payment in Lieu of Public Art, which will be paid at time of building permit issuance.
- Recreation and Open Space Impact Fee of $1,364.00 per Multifamily Dwelling must be paid. Therefore, the applicant will have to pay $433,200 (380 units X $1, 3640.00) prior to issuance of a building permit.
- CRA Traffic Mitigation Fee of $21.26 per p.m. peak hour trip. The Kimley-Horn Traffic Impact Analysis signed and dated 9/11/20 identifies 396.66 adjusted PM Peak Hour Trips for the Wave 70 site plan. Therefore, $8,432.99 (396.66 trips X $21.26) is due prior to issuance of a building permit.

As identified on the Master Development Plan, which is provided as Exhibit 3 in the proposed Development Design Guidelines, there is a pedestrian cross access easement that runs along the east side of the property. The pedestrian cross access easement runs continuously south across the next two (2) properties as well, providing for a continuous public pedestrian path that can be used by the public allowing people to walk along the waterway to access the retail and restaurant. The pedestrian cross

access easement will be located on each of the three (3) properties, including this site, the Wave 70 to the south and the Bryan Mixed-Use Multifamily project south of that.

The applicant has proposed to enter into a Developer's Agreement with the City to develop an unused Right-of-Way into a public park. A portion of the area is owned by Broward County, the other portion is owned by the City of Dania Beach. The applicant has indicated that the proposed park will be accessible via the boardwalk, which is identified in the Master Development Plan for the zoning district, which runs along the canal, or by the sidewalk located along Bryan Road. The amenities of the park have not yet been finalized, but will be identified in the Developers Agreement, which will be recorded prior to issuance of the building permit.

DEVELOPMENT REVIEW COMMITTEE (DRC)
The Development Review Committee has reviewed this application on July 30, 2020 and again in August 27, 2020. There are several outstanding comments that remain, which are identified below.

1. Page 15 of the study includes mitigation of the signal timing at the intersection of Bryan Road and Stirling Road. The future total condition with signal optimization brings the intersection LOS from an F to a D in the pm peak hour. As a condition of approval, we would recommend the applicant to coordinate with Broward County the optimization of this signal. It may have to wait for the appropriate time for the traffic conditions to develop in order for Broward County to proceed with the signal optimization as suggested (Traffic Engineering).

2. According to page 28 of the updated traffic study, the applicant will construct right turn deceleration lanes at the two proposed site driveways. The study also indicates that the exact parameters related to these lanes will be determined during the platting process. We recommend having a condition of approval indicating that right turn deceleration lanes will be provided at the two driveways for the 70 Wave and 90 Wave sites, subject to Broward County's conditions of approval process (Traffic Engineering).

3. Table 8 of page 21 of the study points to future deficiencies in the year 2024 for the intersection of Bryan Road and Old Griffin Road. Since this intersection is not currently signalized but will be at a future date, we would recommend including a condition of approval indicating that the capacity of the storage lanes and geometry of this intersection will be reviewed and approved by Broward County as part of the traffic signal approval process (Traffic Engineering).

4. Provide R/W (width/dimensions), NVAL, R/W dedication, and all Easements information on all engineering plans and Site Plan (Engineering).

5. Provide offsite roadway improvements plans with sufficient details. City R/W permit shall be required for offsite improvements. Proposed removal of muck within R/W may impact the existing underground utilities. Existing utilities shall be protected or reconstructed including WM, gas main and drainage pipes (Engineering).

6. Provide site cross sections with sufficient details in engineering plans. Indicate muck removal, new cut & fill etc. as applicable. The offsite plans cross sections refer to onsite cross sections. The sections shall be provided along all sides of the site (Engineering).

7. Perimeter berm or Type D curb (6" high min.) shall be required to prevent offsite sheet flow.

8. Provide a letter from solid waste management service company accepting the location of dumpster or loading zone (Engineering).

9. The applicant will be responsible for Force Main modeling and upgrading of Lift Station #8 if required. The applicant shall coordinate with Public Services Department (Engineering).

10. Please provide drainage report and calculations indicating storm water retention in project site. Min. Perimeter grade shall be at or above 25-year 72-hour design storm stage. The submitted conceptual calculations are not satisfactory. Hydraulic Conductivity for exfiltration trench shall be based on existing site test results. Provide documentation or tests for drainage well capacity. Well discharge shall only start at elevation 3.50 feet NAVD or 2 feet above water table elevation. Exfiltration trench length shall be twice than required when used for quantity purpose. Provide revised drainage calculations and drainage plans satisfying 25-year storm stage and perimeter berm requirement. The drainage well casing pipe top elevation shall be set at 3.50 feet NAVD to prevent backflow. Revise the drainage well structure detail accordingly. Provide detail for retention area drainage wells (Engineering).

11. All parking spaces shall be clearly delineated by a single four-inch wide, white, painted striping wherever a hard-paved parking surface is required. If double line to be utilized then DDG shall specify the requirement (Engineering).

12. Provide Maintenance of Traffic (MOT) Plan by a licensed General Contractor/Professional Engineer in the State of Florida (If applicable) (Engineering).

13. In accordance with City Code of Ordinances in Article 415. SIDEWALKS AND SWALES, Owner is responsible for the construction of sidewalks / swales within the road ROW when buildings are constructed or substantially improved (Engineering).

14. Detail and complete engineering plans will be required prior to Building and R/W permit approval (Engineering).

15. Provide utility piping conflict details plan, along with documentation to demonstrate acceptability of the separation between water, sanitary, storm-water service lines, etc. (Engineering).

16. Show also all existing and proposed utilities on the landscaping plans for potential conflicts (Engineering).

17. Provide BC standard details for pavement marking and signage. All traffic control signs shall conform to Broward County Traffic Engineering (BCTED) and MUTCD standards. BCTED signs specifications consist of Type XI retroreflective sheeting materials except for school zone and pedestrian signs which shall be comprised of retroreflective fluorescent yellow-green sheeting certified type IV (Engineering).

18. All pavement markings shall be alkyd based thermoplastic and fully retroreflectorized, per BCTED specifications with the exception of parking stall striping (Engineering)

19. Provide ADA parking, access / driveway, and sidewalks /ramps including dimensions in accordance with Chapter 553 of the Florida Statutes. "Accessibility of Handicapped Persons" and latest edition of "Accessibility Requirements Manual" by Department of Community Affairs, Florida Board Building Codes and Standards, and 'in accordance with Americans with Disability Act (ADA) (Engineering).

20. Provide drawing file (dwg or dgn) disk of the approved site plan in Florida State Plane Coordinate (NAD 83). This should be addressed as part of the final submittal (Engineering).

21. Provide regulatory agencies' approval documentation and Permits/Licenses (as applicable) as part of the final submittal, prior to issuance of the Building Permit (Broward County Surface Water License, Broward County Wastewater Permit, Florida Department of Environmental Protection, FDOT, BC Environmental, BC Aviation, BCTED, SFWMD, etc.). Also, include Utility / Right of Way Permits from City, Broward County, and State Roads as applicable (Engineering).

22. The proximity to the airport will require FAA review and approval. 2X requested (Planning).

23. PARK IMPACT FEES: Per Resolution No. 2015-071, $1,825.00 per Single Family/Townhouse dwelling, $1,364.00 per Multifamily Dwelling, $1,140.00 per Mobile Home must be paid for Recreation and Open Space Impact Fee at time of building permit issuance. Therefore, $433,200 (380X 1140) is due for each building at issuance of a building permit (Planning).

24. RAC TRAFFIC IMPACT MITIGATION: Provide an analysis, signed and sealed by a certified engineer, identifying the amount of CRA mitigation for traffic impact due based on resolution No. 2014-049, which established a rate of $21.26 per p.m. peak hour trip. Kimley-Horn Traffic Impact Analysis signed and dated 9/11/20 identifies 396.66 adjusted PM Peak Hour Trips for the Wave 70 site plan. Therefore, $8,432.99 (396.66 trips X $21.26) is due prior to issuance of a building permit (Planning).

25. For all projects resulting in buildout of the site, such that construction staging cannot occur on site, must obtain Staging Plan approval by the Community Development Director prior to issuance of a building permit. The Staging Plan must include, but is not limited to, location of equipment and material during construction (Planning).

26. For all projects resulting in buildout of the site, such that construction staging cannot occur on site, the applicant must obtain Maintenance of Traffic Plan approval by the City Engineer for period of construction prior to issuance of a building permit (Planning).

27. Per O-2017-027 & O-2018-019, commercial properties under construction are required to provide security to fencing with screening showing project rendering covering at least 75% of the length of the fence along an arterial or state right-of-way & 25% for local roads and must include name and intended use of the project, project rendering, project website address, and owner or agent, the telephone number for the owner or agent, and the name and an emergency contact telephone number of the general contractor. Provide screen detail with next submittal (Planning).

28. **PUBLIC ART PROGRAM:** Per O-2019-025, new development and redevelopment in non-residential, mixed-use and multi-family zoning districts shall provide fee for the creation, acquisition and installation of public art in the city (Planning).

29. The Master Development Plan on page 9 of the DDG shows a pedestrian cross access easement. Prepare easement language for the City Attorney's Office to review before recording it in Broward County Public Record. Must be reviewed and recorded prior to issuance of a building permit (Planning).

30. Show location of pedestrian cross access easement running across the entire length of the property on the site plan (Planning).

31. Enter into a Developers Agreement for park improvements, for separate review and approval by the City Commission (Planning).

32. Identify location of pedestrian cross access easement along east side of the property. 2nd time requested (from Plat comments) (Planning).

Additionally, a Plat Note Amendment application has been submitted for the property that is being processed separately.

CITY COMMISSION PREVIOUS ACTION
On October 28, 2019, the City Commission changed the zoning on the property from Industrial, Research, Office, Marine (IROM) to Planned Small Lot Mixed-Use Development District (PMUD-SL).

On October 13, 2020 the City Commission continued this item to allow the applicant time to resolve the adjacent North West Byrd Point residents' concerns.

Recommendation
Approve the Site Plan and DDG with remaining DRC comments as conditions of approval.

RESOLUTION NO. 2020-127

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE DEVELOPMENT DESIGN GUIDELINES (DDG) AND SITE PLAN (SP-024-20) SUBMITTED BY KIMLEY-HORN AND ASSOCIATES, ON BEHALF OF NV MARINA HOLDINGS LLC AND RJ MARINA HOLDINGS LLC, FOR PROPERTY GENERALLY LOCATED AT 50 AND 70 S. BRYAN ROAD WITHIN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; PROVIDING FOR CONFLICTS; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, pursuant to Chapter 28 of the "Land Development Code" (the "LDC"), Part 6 "Development Review Procedures and Requirements," Article 635 "Site Plans," and Part 3 "Special Zoning Districts," Subpart 5 "Planned Small Lot Mixed-Use Development District (PMUD-SL)," Article 350 "Planned Small Lot Mixed-Use Development District (PMUD-SL)," Section 350-30(R) "Site Plan Approval," site development shall comply with the established PMUD-SL regulations and the approved Development Design Guidelines; and

WHEREAS, LDC Article 350 "Planned Small Lot Mixed-Use Development District (PMUD-SL)," Section 350-40 "Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Requirements," provides that no building permit for a structure or building shall be issued by the City and no development shall commence unless in conformity with the approved Development Design Guidelines (DDG) and an approved final site plan; and

WHEREAS, pursuant to LDC Section 350-40, Kimley-Horn and Associates, on behalf of NV MARINA HOLDINGS LLC and RJ MARINA HOLDINGS LLC (collectively, the "Applicant") has submitted the Bryan Road PMUD-SL District 1 (70 Wave) Development Design Guidelines (DDG), attached as Exhibit "C," which provide for the standards and regulations of the future development of that certain portion of the PMUD-SL (District 1), as legally described in Exhibit "A;" and

WHEREAS, the Applicant has requested Site Plan (SP-024-20) approval to permit the development of a mixed use project with 380 dwelling units and 48,000 sf of commercial uses (integrated with a parking garage) with ground level retail, attached as Exhibit "D," consistent with the DDG, to be located on the property as legally described in Exhibit "A;" and

WHEREAS, the Site Plan (SP-024-20) has been reviewed for compliance with the Bryan Road PMUD-SL District 1 Development Design Guidelines (DDG) in accordance with Article 635 and Article 350 of the LDC; and

WHEREAS, the City Commission conducted a duly noticed public hearing in accordance with Article 610 of the Land Development Code; and

WHEREAS, the City Commission finds that the approval of the proposed DDG and Site Plan (SP-024-20) will protect the public health, safety, and welfare of the residents of the City, and furthers the purpose, goals, objectives and policies of the Comprehensive Plan; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the foregoing "WHEREAS" clauses are ratified and confirmed as being true and correct, and they are made a part of and incorporated into this Resolution by reference.

Section 2. That pursuant to Chapter 28, "Land Development Code," Part 6 "Development Review Procedures and Requirements," Article 635 "Site Plan," and Part 3 "Special Zoning Districts," Article 350 "Planned Small Lot Mixed-Use Development District (PMUD-SL)," Section 350-40 "Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Requirements," the following Site Plan (SP-024-20) attached as Exhibit "D," which is made a part of and incorporated into this Resolution by reference, is approved subject to the conditions contained in Exhibit "B".

Section 3. That pursuant to LDC Section 635-100 "Expiration of Site Plans," the Site Plan (SP-024-20) approval shall automatically expire and become null and void eighteen (18) months from the effective date of this Resolution unless the Applicant files a complete building permit application and secures approval of building permits for the improvements shown on the Site Plan within the eighteen (18) month time frame, unless an extension is granted by the City Commission.

Section 4. That the issuance of a development permit by a municipality does not in any way create any right on the part of an Applicant to obtain a permit from a state or federal agency, and does not create any liability on the part of the municipality for issuance of the permit if the Applicant fails to obtain requisite approvals or does not fulfill the obligations imposed by a state or federal agency, or undertakes actions that result in a violation of state or federal law.

Section 5. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 6. That this Resolution shall be in force and take effect immediately upon its passage and adoption.

PASSED AND ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

Exhibit "A"
Legal Description

The South one-half of the Southwest one-quarter (SW ¼) of the Northwest one-quarter (NW ¼) of the Southeast one-quarter (SE ¼) of the Southeast one-quarter (SE ¼) of Section 33, Township 50 South, Range 42 East, Broward County, Florida, LESS all that portion lying Easterly lying Easterly of the following specifically described line:

Commencing at the NE corner of the SE ¼ of Section 33, Township 50 South, Range 42 East, bear South 87 degrees 26 minutes 41 seconds West, along the North line of said SE ¼ (centerline of NW 2nd Street) a distance of 1111.05 feet; thence South 0 degrees 42 minutes 30 seconds East, a distance of 1674.9 feet, more or less, to the intersection thereof with the North line of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ of said Section; thence North 87 degrees 31 minutes 28 seconds East, along said North line, a distance of 35.02 feet; thence South 0 degrees 42 minutes 30 seconds East, a distance of 150.0 feet; thence South 89 degrees 17 minutes 30 seconds West, a distance of 14.50 feet; thence South 2 degrees 54 minutes 17 seconds West to an intersection thereof with the North line of the S ½ of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ and the POINT OF BEGINNING; thence continue South 2 degrees 54 minutes 17 seconds West, a distance of 118 feet from the last point of deflection; thence North 87 degrees 05 minutes 43 seconds West, a distance of 20.0 feet; thence South 2 degrees 54 minutes 17 seconds West, a distance of 70 feet, more or less, to the intersection thereof with the South line of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ of said Section and the end of the specifically described line.

Also less the West 30.0 feet of the South Half (S ½) of the Southwest Quarter (SW ¼) of the Northwest Quarter (NW ¼) of the Southeast Quarter (SE ¼) of the Southeast Quarter (SE ¼) of Section 33, Township 50 South, Range 42 East.

Also LESS all that portion of the South 10.0 feet of the South Half (S ½) of the Southwest Quarter (SW ¼) of the Northwest Quarter (NW ¼) of the Southeast Quarter (SE ¼) of the Southeast Quarter (SE ¼) of Section 33, Township 50 South, Range 42 East, lying West of Central and Southern Florida Flood Control District Canal C-10 right of way.

AND

The North one-half (N ½) of the Southwest one-quarter (SW ¼) of the Northwest one-quarter (NW ¼) of the Southeast one-quarter (SE ¼) of the Southeast one-quarter (SE ¼) of Section 33, Township 50 South, Range 42 East, Broward County, Florida, LESS all that portion lying Easterly of the following specifically described line:

Commencing at the NE corner of the SE ¼ of Section 33, Township 50 South, Range 42 East, bear South 87 degrees 26 minutes 41 seconds West, along the North line of said SE ¼ (centerline of NW 2nd Street) a distance of 1111.05 feet; thence South 0 degrees 42 minutes 30 seconds East, a distance of 1674.9 feet, more or less, to the intersection thereof with the North line of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ of said Section; thence North 87 degrees 31 minutes 28 seconds East, along said North line, a distance of 35.02 feet; thence South 0 degrees 42 minutes

30 seconds East, a distance of 150.0 feet; thence South 89 degrees 17 minutes 30 seconds West, a distance of 14.50 feet; thence South 2 degrees
54 minutes 17 seconds West to the intersection thereof with the South line of the North ½ of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ of said Section and the end the specifically described line.

Also less the West 30.0 feet of the North Half (N ½) of the Southwest Quarter (SW ¼) of the Northwest Quarter (NW ¼) of the Southeast Quarter (SE ¼) of the Southeast Quarter (SE ¼) of Section 33, Township 50 South, Range 42 East.

AND

All that portion of the South 10.0 feet of the South Half (S ½) of the Southwest Quarter (SW ¼) of the Northwest Quarter (NW ¼) of the Southeast Quarter (SE ¼) of the Southeast Quarter (SE ¼) of Section 33, Township 50 South, Range 42 East, lying West of Central and Southern Florida Flood Control District Canal C-10 right of way.

TOGETHER WITH

A portion of the Southeast one-quarter (SE ¼)_ of Section 33, Township 50 South, Range 42 East, Broward County, Florida, being more particularly described as follows:

Commencing at the NE corner of the SE ¼ of Section 33, Township 50 South, Range 42 East; thence South 87^26'41" West (basis of bearings) along the North line of said SE ¼ (centerline of NW 2nd Street) a distance of 1111.05 feet; thence South 00^50'21" East, a distance of 1677.24 feet to the intersection thereof, with the North line of the Southwest ¼ of the Northwest ¼ of the Southeast ¼ of the Southeast ¼ of said Section; thence North 87^23'42" East, along said North line, a distance of 35.02 feet to the
POINT OF BEGINNING; thence continue North 87^23'42" East, a distance of 28.82 feet; thence South 01^58'30" East, a distance of 201.92 feet; thence South 15^11'27" West, a distance of 92.10 feet; thence South 04^24'06" West, a distance of 35.50 feet; thence South 87^25'33" West, a distance of 49.86 feet to a point on the existing Westerly right of way line of the Central and Southern Florida Flood Canal C-10 Canal right of way; thence North 02^46'39" East along the aforementioned Westerly right of way line, a distance of 59.99 feet; thence South 87^13'21" East along the aforementioned right of way line, a distance of 20.00 feet; thence North 02^46'39" East along the aforementioned right of way line, a distance of 118.00 feet; thence North 89^09'52" East along the aforementioned right of way line, a distance of 14.50 feet; thence North 00^50'08" West along the aforementioned right of way line, a distance of 150.00 feet to the POINT OF BEGINNING.

Exhibit "B"

Conditions of Approval

1. Page 15 of the study includes mitigation of the signal timing at the intersection of Bryan Road and Stirling Road. The future total condition with signal optimization brings the intersection LOS from an F to a D in the pm peak hour. As a condition of approval, we would recommend the applicant to coordinate with Broward County the optimization of this signal. It may have to wait for the appropriate time for the traffic conditions to develop in order for Broward County to proceed with the signal optimization as suggested (Traffic Engineering).

2. According to page 28 of the updated traffic study, the applicant will construct right turn deceleration lanes at the two proposed site driveways. The study also indicates that the exact parameters related to these lanes will be determined during the platting process. We recommend having a condition of approval indicating that right turn deceleration lanes will be provided at the two driveways for the 70 Wave and 90 Wave sites, subject to Broward County's conditions of approval process (Traffic Engineering).

3. Table 8 of page 21 of the study points to future deficiencies in the year 2024 for the intersection of Bryan Road and Old Griffin Road. Since this intersection is not currently signalized but will be at a future date, we would recommend including a condition of approval indicating that the capacity of the storage lanes and geometry of this intersection will be reviewed and approved by Broward County as part of the traffic signal approval process (Traffic Engineering).

4. Provide R/W (width/dimensions), NVAL, R/W dedication, and all Easements information on all engineering plans and Site Plan (Engineering).

5. Provide offsite roadway improvements plans with sufficient details. City R/W permit shall be required for offsite improvements. Proposed removal of muck within R/W may impact the existing underground utilities. Existing utilities shall be protected or reconstructed including WM, gas main and drainage pipes (Engineering).

6. Provide site cross sections with sufficient details in engineering plans. Indicate muck removal, new cut & fill etc. as applicable. The offsite plans cross sections refer to onsite cross sections. The sections shall be provided along all sides of the site (Engineering).

7. Perimeter berm or Type D curb (6" high min.) shall be required to prevent offsite sheet flow.

8. Provide a letter from solid waste management service company accepting the location of dumpster or loading zone (Engineering).

9. The applicant will be responsible for Force Main modeling and upgrading of Lift Station #8 if required. The applicant shall coordinate with Public Services Department (Engineering).

10. Please provide drainage report and calculations indicating storm water retention in project site. Min. Perimeter grade shall be at or above 25-year 72-hour design storm stage. The submitted conceptual calculations are not satisfactory. Hydraulic Conductivity for exfiltration trench shall be based on existing site test results. Provide documentation or tests for drainage well capacity. Well discharge shall only start at elevation 3.50 feet NAVD or 2 feet above water table elevation. Exfiltration trench length shall be twice than required when used for quantity purpose. Provide revised drainage calculations and drainage plans satisfying 25-year storm stage and perimeter berm requirement. The drainage well casing pipe top elevation shall be set at 3.50 feet NAVD to prevent backflow. Revise the drainage well structure detail accordingly. Provide detail for retention area drainage wells (Engineering).

11. All parking spaces shall be clearly delineated by a single four-inch wide, white, painted striping wherever a hard-paved parking surface is required. If double line to be utilized then DDG shall specify the requirement (Engineering).

12. Provide Maintenance of Traffic (MOT) Plan by a licensed General Contractor/Professional Engineer in the State of Florida (If applicable) (Engineering).

13. In accordance with City Code of Ordinances in Article 415. SIDEWALKS AND SWALES, Owner is responsible for the construction of sidewalks / swales within the road ROW when buildings are constructed or substantially improved (Engineering).

14. Detail and complete engineering plans will be required prior to Building and R/W permit approval (Engineering).

15. Provide utility piping conflict details plan, along with documentation to demonstrate acceptability of the separation between water, sanitary, storm-water service lines, etc. (Engineering).

16. Show also all existing and proposed utilities on the landscaping plans for potential conflicts (Engineering).

17. Provide BC standard details for pavement marking and signage. All traffic control signs shall conform to Broward County Traffic Engineering (BCTED) and MUTCD standards. BCTED signs specifications consist of Type XI retroreflective sheeting materials except for school zone and pedestrian signs which shall be comprised of retroreflective fluorescent yellow-green sheeting certified type IV (Engineering).

18. All pavement markings shall be alkyd based thermoplastic and fully retroreflectorized, per BCTED specifications with the exception of parking stall striping (Engineering)

19. Provide ADA parking, access / driveway, and sidewalks /ramps including dimensions in accordance with Chapter 553 of the Florida Statutes. "Accessibility of Handicapped Persons" and latest edition of "Accessibility Requirements Manual" by Department of Community Affairs, Florida Board Building Codes and Standards, and 'in accordance with Americans with Disability Act (ADA) (Engineering).

20. Provide drawing file (dwg or dgn) disk of the approved site plan in Florida State Plane Coordinate (NAD 83). This should be addressed as part of the final submittal (Engineering).

21. Provide regulatory agencies' approval documentation and Permits/Licenses (as applicable) as part of the final submittal, prior to issuance of the Building Permit (Broward County Surface Water License, Broward County Wastewater Permit, Florida Department of Environmental Protection, FDOT, BC Environmental, BC Aviation, BCTED, SFWMD, etc.). Also, include Utility / Right of Way Permits from City, Broward County, and State Roads as applicable (Engineering).

22. The proximity to the airport will require FAA review and approval. 2X requested (Planning).

23. PARK IMPACT FEES: Per Resolution No. 2015-071, $1,825.00 per Single Family/Townhouse dwelling, $1,364.00 per Multifamily Dwelling, $1,140.00 per Mobile Home must be paid for Recreation and Open Space Impact Fee at time of building permit issuance. Therefore, $433,200 (380X 1140) is due for each building at issuance of a building permit (Planning).

24. RAC TRAFFIC IMPACT MITIGATION: Provide an analysis, signed and sealed by a certified engineer, identifying the amount of CRA mitigation for traffic impact due based on resolution No. 2014-049 which established a rate of $21.26 per p.m. peak hour trip. Kimley-Horn Traffic Impact Analysis signed and dated 9/11/20 identifies 396.66 adjusted PM Peak Hour Trips for the Wave 70 site plan. Therefore, $8,432.99 (396.66 trips X $21.26) is due prior to issuance of a building permit (Planning).

25. For all projects resulting in buildout of the site, such that construction staging cannot occur on site, must obtain Staging Plan approval by the Community Development Director prior to issuance of a building permit. The Staging Plan must include, but is not limited to, location of equipment and material during construction (Planning).

26. For all projects resulting in buildout of the site, such that construction staging cannot occur on site, the applicant must obtain Maintenance of Traffic Plan approval by the City Engineer for period of construction prior to issuance of a building permit (Planning).

27. Per O-2017-027 & O-2018-019, commercial properties under construction are required to provide security to fencing with screening showing project rendering covering at least 75% of the length of the fence along an arterial or state right-of-way & 25% for local roads and must include name and intended use of the project, project rendering, project website address, and owner or agent, the telephone number for the owner or agent, and the name and an emergency contact telephone number of the general contractor. Provide screen detail with next submittal (Planning).

28. **PUBLIC ART PROGRAM:** Per O-2019-025, New development and redevelopment in non-residential, mixed-use and multi-family zoning districts shall provide fee for the creation, acquisition and installation of public art in the city (Planning).

29. The Master Development Plan on page 9 of the DDG shows a pedestrian cross access easement. Prepare easement language for the City Attorney's Office to review before recording it in Broward County Public Record. Must be reviewed and recorded prior to issuance of a building permit (Planning).

30. Show location of pedestrian cross access easement running across the entire length of the property on the site plan (Planning).

31. Enter into a Developers Agreement for park improvements, for separate review and approval by the City Commission (Planning).

32. Identify location of pedestrian cross access easement along east side of the property. 2nd time requested (from Plat comments) (Planning).

Exhibit "C"

Bryan Road PMUD-SL District 1 Development Design Guidelines (DDG)

Exhibit "D"
Site Plan

DESIGN GUIDELINES:
90 WAVE AND 70 WAVE

Prepared for:

DANIA BEACH MARINA CORPORATION

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

Prepared by:

Kimley»Horn

September 2020

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SECTION 1 INTRODUCTION AND INTENT

(1) INTRODUCTION

Dania Beach Marina Corp, the Applicant for 90 North Bryan Road, 70 and 50 South Bryan Road in the City of Dania Beach is proposing to redevelop the 5.79-acre total site area with a mixed-use development known as "90 and 70 Wave" ("Project"). The project consists of predominately residential and commercial along with office use, the density of which is included later in this document.

The proposed development is designed as an integral part of an emerging mixed-use lifestyle corridor along Bryan Road spurred by the development of Dania Pointe, a large-scale Planned Mixed-Use Development (PMUD) on the west side of Bryan Road.

The development activity within this corridor has resulted in the opportunity for property owners along Bryan Road to redevelop their properties into an innovative and compatible mixed-use development. As such, these properties have been rezoned to a newly created Planned Mixed-Use Development-Small Lot (PMUD-SL) zoning district, known as the Bryan Road Corridor PMUD-SL (see Figure 2).

The Dania Beach Marina PMUD-SL (District 1) zoning application included a Master Development Plan ("MDP") (Figure 3) illustrating two (2) districts. This MDP conceptually illustrates the Bryan Road street section, building envelopes and setbacks in order to provide consistency and continuity within the Bryan Road Corridor PMUD-SL. The design guidelines in this document shall apply only to District 1, located at 90 North Bryan Road, 70 South Bryan Rd and 50 South Bryan Road (see Figure 4).

The District 1 PMUD area is 5.92 acres which contributes to the minimum 10-acre requirement set forth in the PMUD-SL for both District 1 and District 2. PMUD area is measured from the centerline of the immediately adjacent roadways and the eastern property boundaries as applicable, thus the reason it is larger than the total site area for District 1 previously mentioned. The property is currently zoned PMUD-SL with an underlying land use of Regional Activity Center (RAC) within the City's Community Redevelopment Area ("CRA") (see Figure 2).

The nearby properties are zoned:

Direction of Nearby Properties	Zoning
South (District 2)	PMUD-SL
East (adjacent canal)	NBHD-RES, IROM and IG
West	PMUD/IROM
North	IROM

The properties to the east of the canal are zoned Neighborhood Residential (NBHD-RES) and General Industrial (IG). Two parcels without an assigned zoning district, are owned by the South Florida Water Management District and separate the District 1 property from the NHBD-RES property. The property to the west, commonly known as Dania Pointe, is zoned Planned Mixed-Use Development (PMUD).

Figure 1: Location Map

The conceptual master plans and design guidelines of this report collectively called “development design guidelines” are designed to best achieve the common goals of the Bryan Road Corridor PMUD-SL and the City of Dania Beach to continue to provide world class destinations and services to the residents of Dania Beach and east Broward County. As proposed, the Master Development Plan (MDP) is broken down into two (2) districts; District 1 (Commercial-Office-Residential-Hotel-Marina) and District 2. District 1 represents approximately 2/3 of the MDP spanning from NW 1st Street on the north to just south of Arrow Place on the south. The properties seek to take advantage of the waterfront at the rear of their properties to provide private amenities, including docking facilities and walkways along the waterfront. Where feasible, that no public ROW impedes, and that both property owners agree, pedestrian cross access is allowed between the districts. This cross-access easement is intended to be a designed amenity such as a continuous boardwalk, sidewalk or

waterfront feature as allowed by the City of Dania Beach, SFWMD and USACE. Each District would be responsible for their respective portion of the cross-access with each respective site plan submittal.

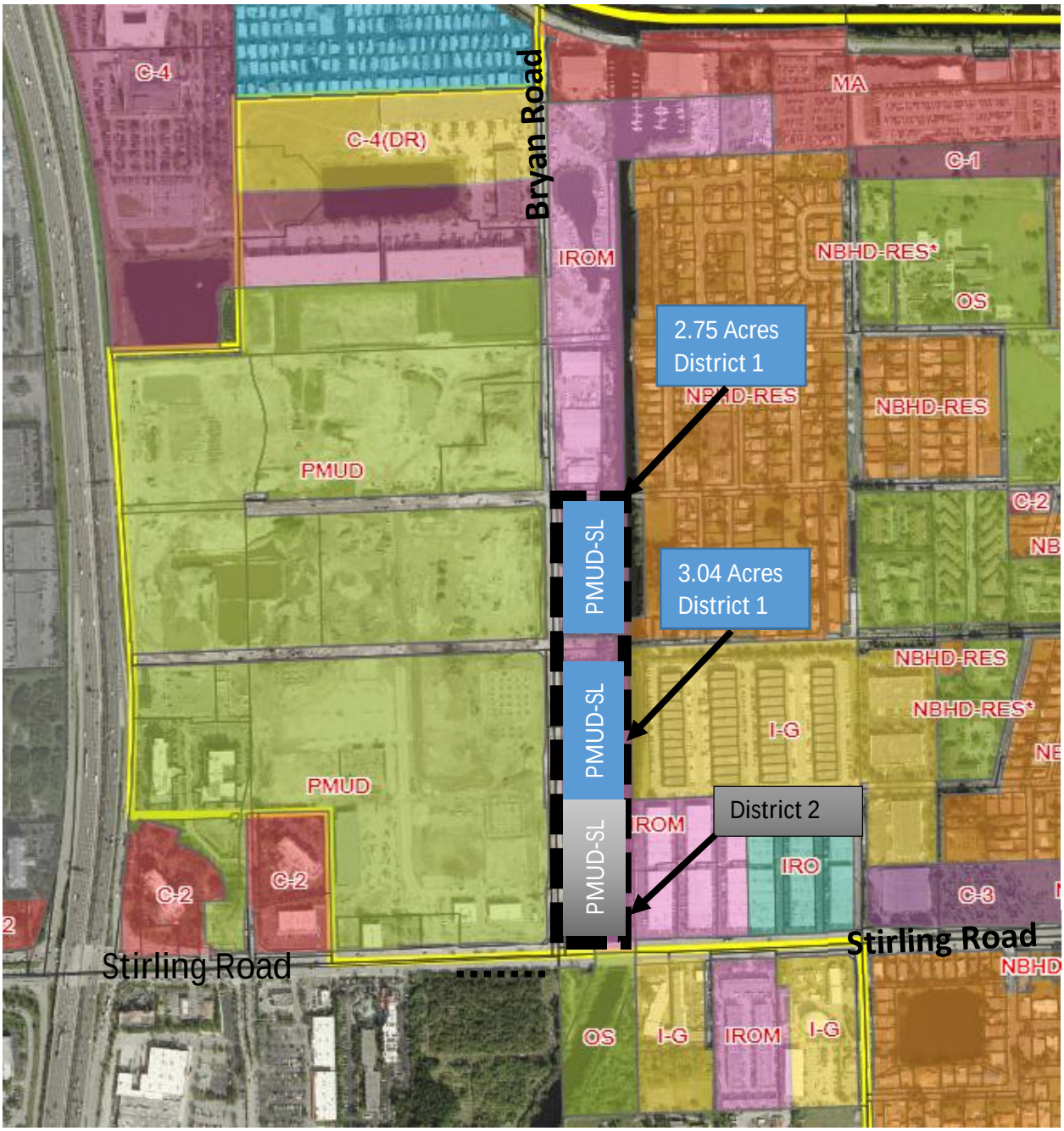
(2) INTENT

The Dania Beach RAC land use designation is intended to provide the needed flexibility to permit increased development intensity on certain sites without the need to process site specific land use plan amendments. The PMUD zoning district adjacent to the property furthers the intent of the City's redevelopment plans by supporting large-scale mixed-use development with direct access to an arterial roadway within the RAC. The City's Land Development Code reserves the PMUD zoning designation for properties that have a minimum size of fifty (50) acres of contiguous land. Thus, a new PMUD-SL district was created for properties that do not meet the minimum 50-acre requirement.

The intent of these design guidelines is to create parameters for District 1 based on the documentation of existing conditions as well as planning for future expansion. The Master Development Plan was required for District 1 to rezone from C-3 and IROM to PMUD-SL which occurred in 2019, (ORD #2019-018, see appendix). The District 1 design guidelines control specific development standards or bulk regulations for District 1. The design guidelines further require architectural, landscaping and design features that would be consistent within District 1 and compatible with elements of the Bryan Road PMUD-SL Master Development Plan, particularly landscaping, pedestrian lighting and hardscape within the Bryan Road Corridor as illustrated in the Bryan Road PMUD-SL Plan and Street Sections.

ZONING MAP

Figure 2: Zoning Map



SECTION 2 DEFINITIONS

Refer to the City of Dania Beach Code of Ordinance Section 725-30 for applicable definitions unless otherwise noted and defined herein.

SECTION 3 PERMITTED USES

The PMUD-SL may only be utilized within the Dania Beach Regional Activity Center (RAC). Generalized permitted uses are those set forth in the Dania Beach RAC which include residential, hotel, commercial, recreation, office and employment center. A functional mix of uses should be provided and may be horizontally and vertically mixed within a building(s) as well as within the PMUD-SL as regulated in these design guidelines. All permitted, conditional, special exception, restricted or prohibited uses within the PMUD-SL shall be identified and established below (see Exhibit 1: Permitted Uses; Exhibit 2: Conditional Uses; Exhibit 3: Prohibited Uses).

Exhibit 1: Permitted Uses

Permitted Uses
(1) Residential (Live/Work)
(2) Commercial
(3) Office
(4) Hotel
(5) Marina

Specific uses include the following:

(1) Community meeting rooms, recreational facilities, private clubs and other places of public assembly accessory to the residential or hotel use.
(2) Retail and service establishments including grocery stores, restaurants, bars or taverns for on-premises consumption of alcoholic beverages, spas, salons, beauty shops, barbershops, athletic clubs or gymnasiums, group instruction, art gallery, daycare center, pet shop, deli, baked goods/bakery including those within a retail/grocery store and other similar uses, watercraft rentals and marine uses.
(3) Art studios and retail shops.
(4) Open-air cafes and restaurants.
(5) Residential including multifamily.
(6) Hotels.
(7) Business, medical, dental and other professional offices.

Exhibit 2: Conditional Uses, Special Exceptions or Restricted Uses

Conditional Uses, Special Exceptions or Restricted Uses
None

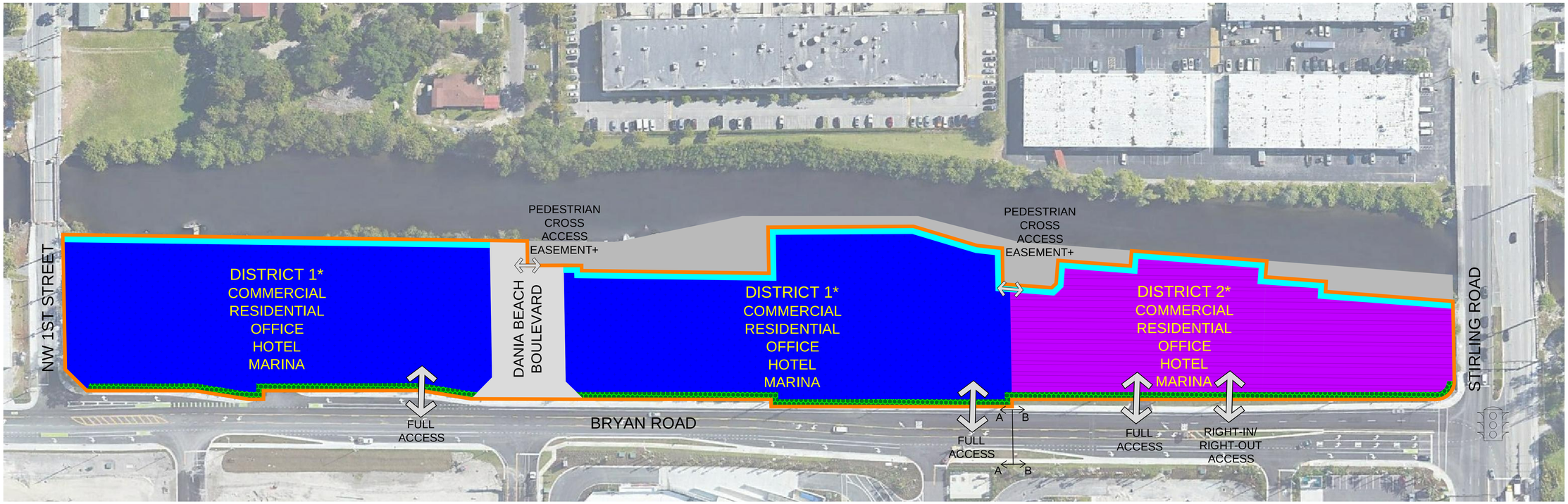
Exhibit 3: Prohibited Uses – Any use not specifically identified as permitted, will be considered prohibited.

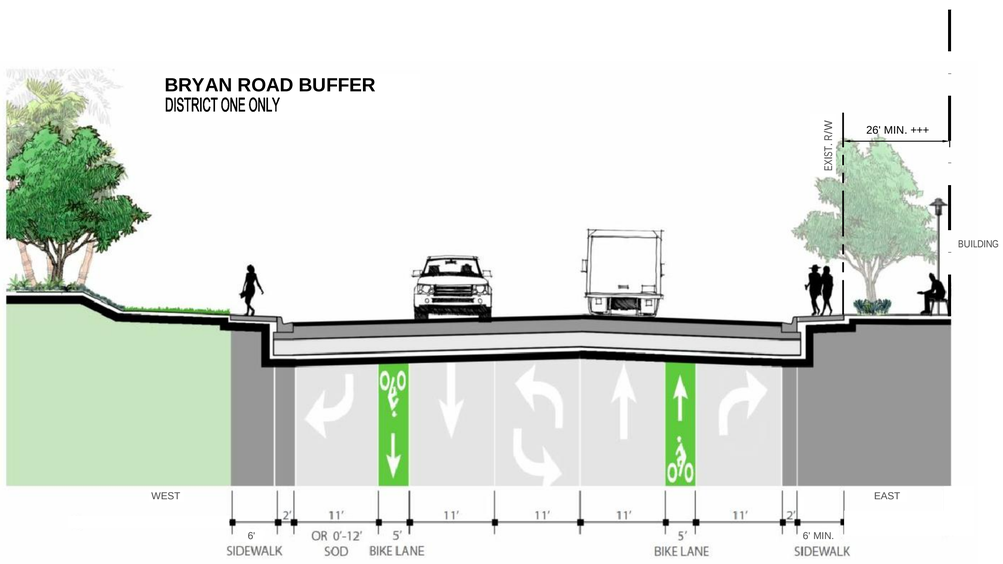
Prohibited Uses
(1) Any use not specifically identified as a permitted use will be considered a prohibited use unless otherwise approved by the City of Dania Beach.

SECTION 4 DISTRICT 1 MASTER DEVELOPMENT PLAN

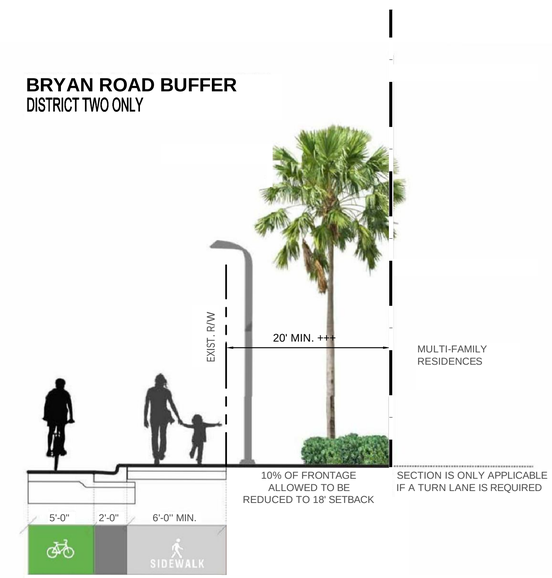
MASTER DEVELOPMENT PLAN

The Master Development Plan ("MDP") is the guide for establishing certain development regulations and criteria for the ultimate build-out of the Bryan Road Corridor PMUD-SL along the frontage of District 1. The MDP provides conceptual graphics to designate elements of the proposed development including building setbacks, site access, and streetscape design. As proposed, Section 5 includes Development Standards, Architectural Standards, Landscape and Irrigation Standards, and Sign Standards. Section 6 includes Utility Provider and Service Standards.





EXISTING BRYAN ROAD - SECTION A



EXISTING BRYAN ROAD - SECTION B

LEGEND

- PROJECT BOUNDARY
- ACCESS POINT
- SIGNALIZED INTERSECTION
- DISTRICT 1
- DISTRICT 2
- INTEGRATED PEDESTRIAN WALKWAY AND/OR LANDSCAPE BUFFER++
- PEDESTRIAN CROSS ACCESS
- FUTURE PROPERTY
- PUBLIC RIGHT OF WAY

* NUMERICAL DESIGNATION OF DISTRICTS IS TO SIGNIFY SEPARATION OF SITE PLANS AND DEVELOPMENT DESIGN GUIDELINES

+ PEDESTRIAN CROSS ACCESS EASEMENT TO BE ESTABLISHED AT NOTED LOCATIONS

++ INTEGRATED PEDESTRIAN WALKWAY AND LANDSCAPE TO INCLUDE STREET CANOPY AND ORNAMENTAL TREES CONSISTENT WITH BEST LANDSCAPING PRACTICES AND AS CONSISTENT WITH THE BRYAN ROAD CROSS SECTIONS. AREA TO ALSO INCLUDE A MINIMUM 6 FOOT WIDE SIDEWALK WITH ORNATE TRASH RECEPTACLES, BENCHES, PEDESTRIAN LIGHTING AND BUS SHELTER WHERE DEEMED NECESSARY. 35 FT TREE SPACING ALONG BRYAN ROAD

+++ REQUIRED MINIMUM BUILDING SETBACK INCLUDES AREA FOR FUTURE EXPANSION OF BRYAN ROAD.

Kimley»Horn
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WWW.KIMLEY-HORN.COM CA 00000696

DANIA BEACH MARINA

FIGURE 3: MASTER DEVELOPMENT PLAN - PMUD-SL

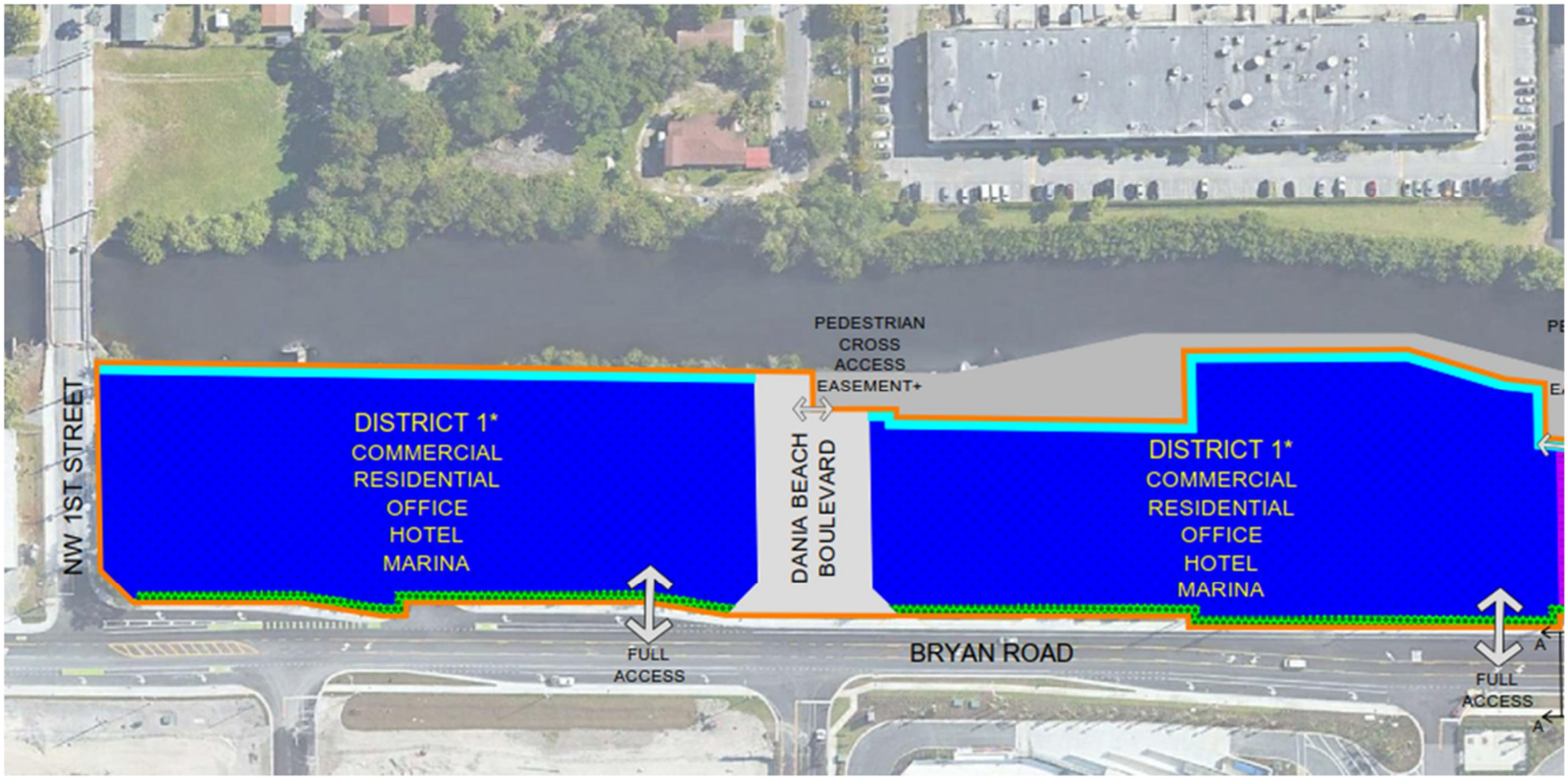
MASTER DEVELOPMENT PLAN
UPDATED 10/28/2019

SHEET NUMBER

MDP

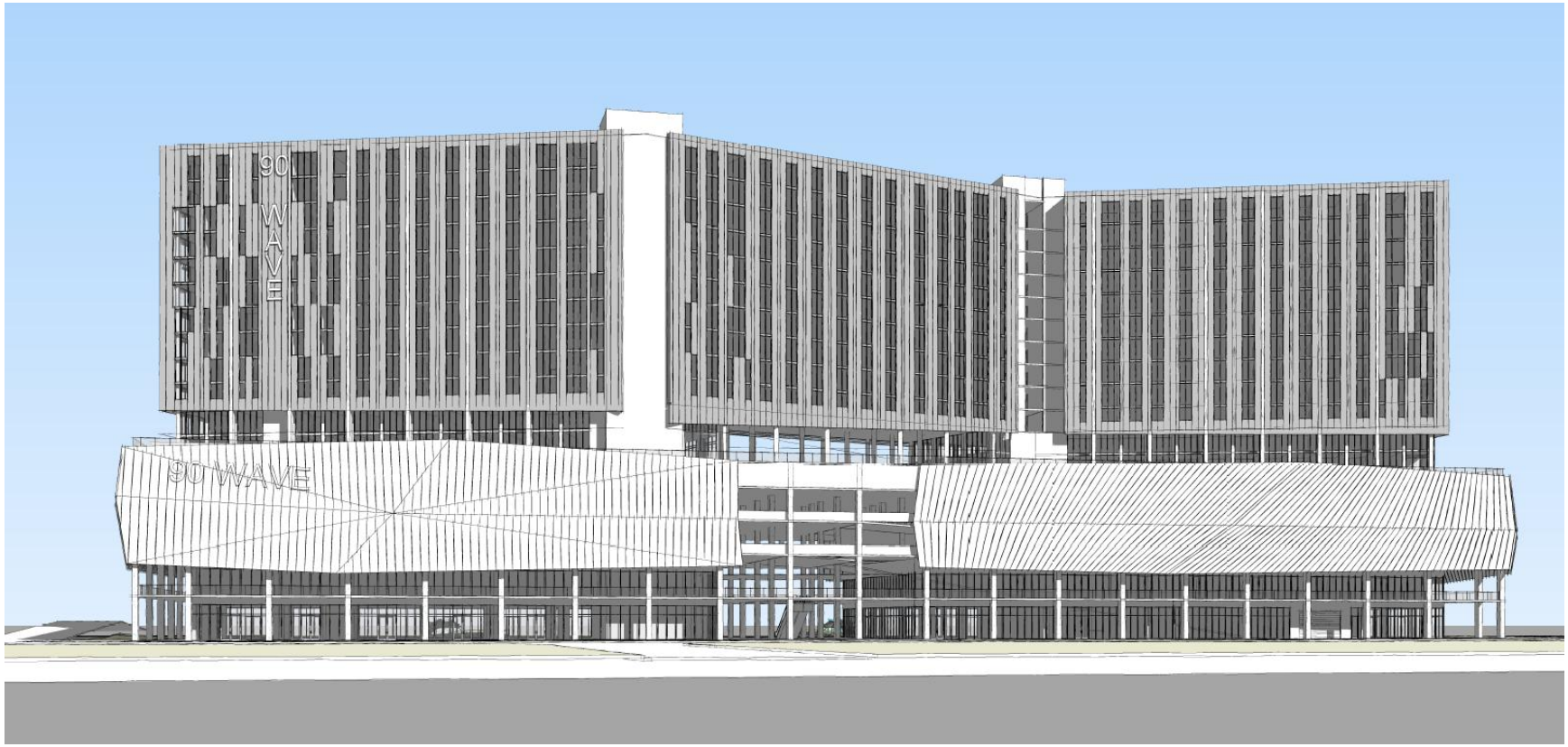
Plotted By:Lawson, Jacob Sheet Set:Kmz Layout:Master Development Plan October 28, 2019 07:36:08am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\Exhibits\MASTER DEVELOPMENT PLAN\Master Development Plan.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

Figure 4: *District 1 Master Development Plan*



ILLUSTRATIVE GRAPHICS OF BUILDING TYPOLOGIES

Figure 5: *West View*



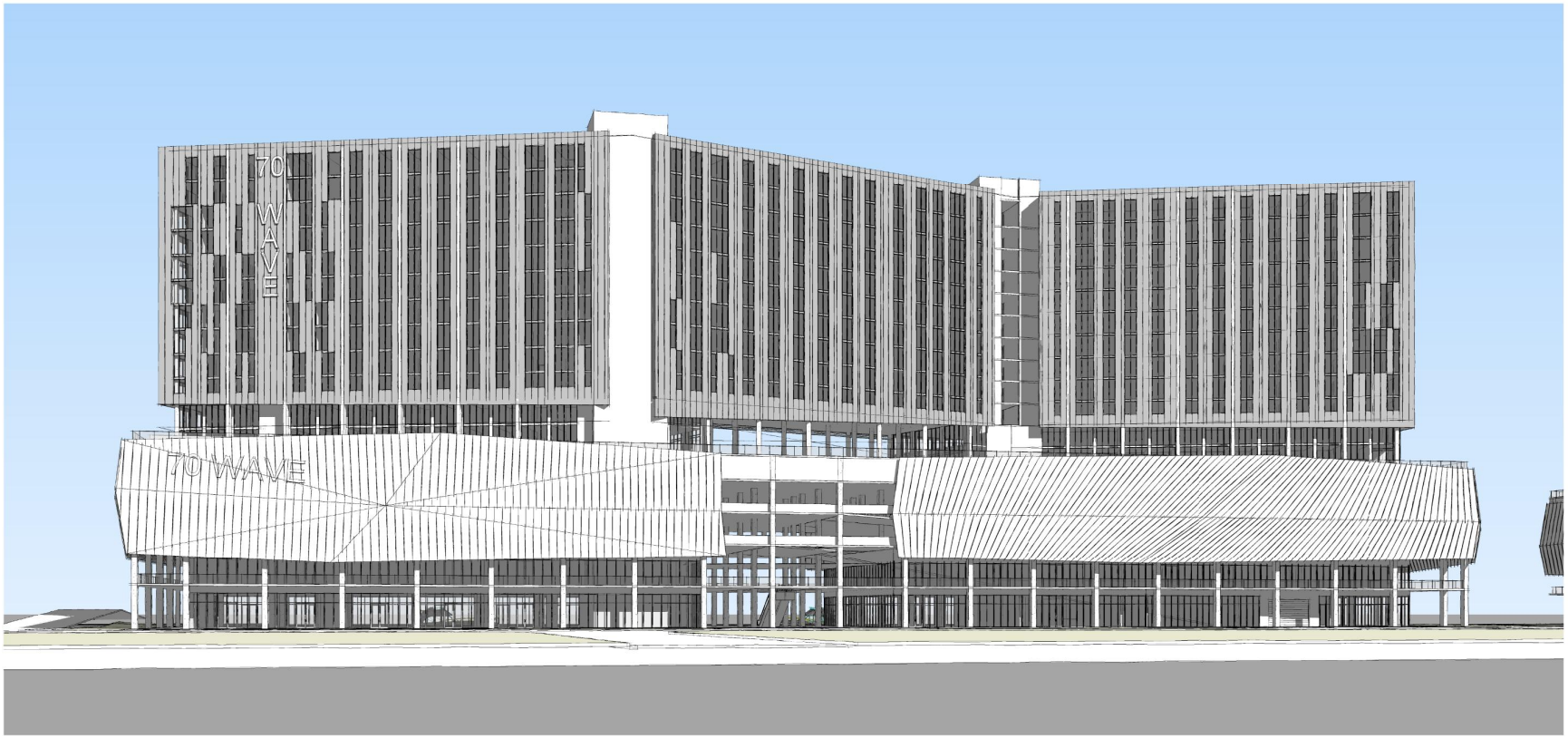

70
WAVE
70 WAVE

Figure 6: *Perspective View*

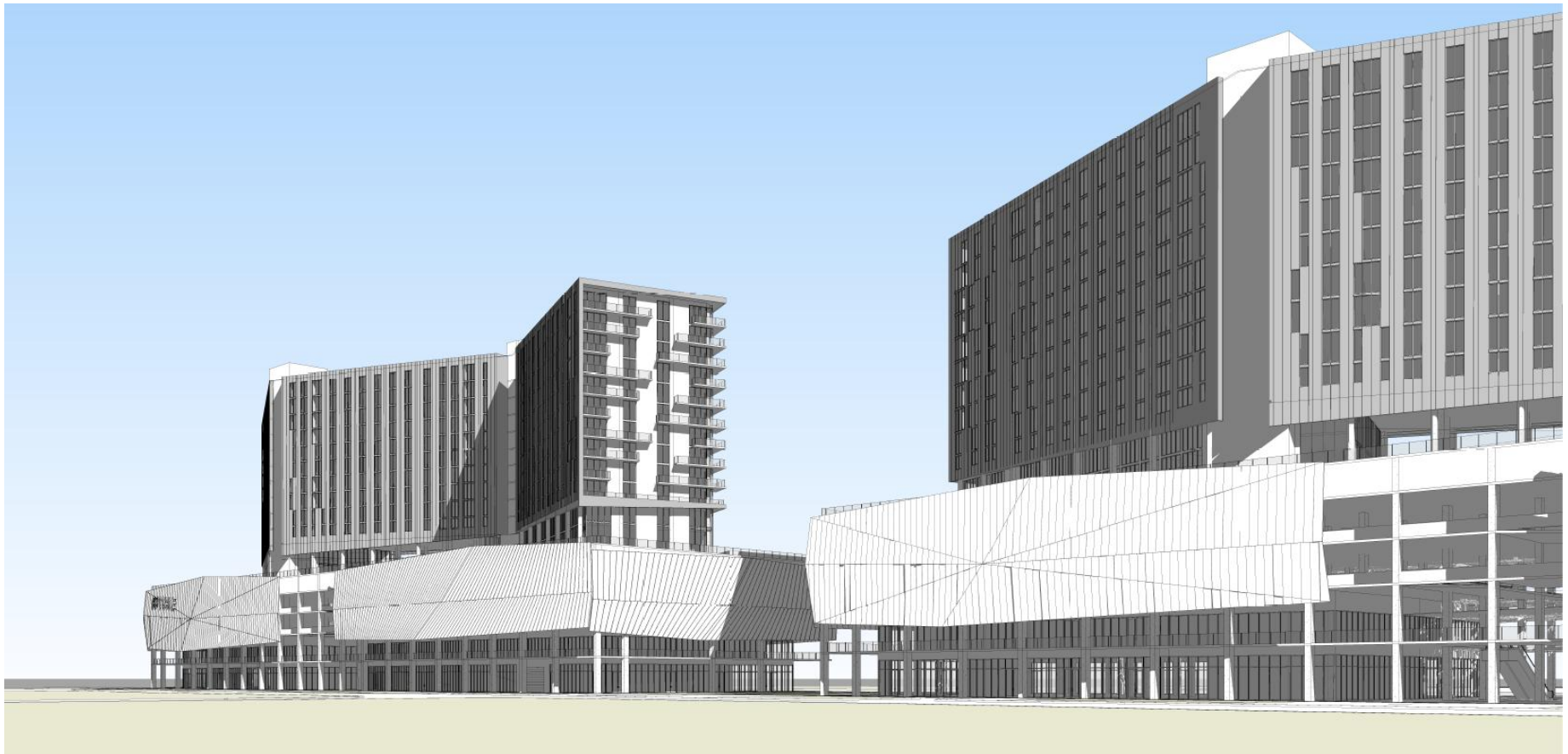


Figure 7: *Perspective Rendering*

SECTION 5 DEVELOPMENT STANDARDS

(1) INTENT

Development standards includes those items generally pertaining to the height, perimeter setbacks, orientation, design standards, landscaping, parking, development themes, visual appearance and others as included herein.

(2) COMPATIBILITY

The District 1 design guidelines have been developed based on existing site features, available infrastructure, and the adjacent properties. The Project provides a sustainable mix of compatible land uses both internally and externally with adjacent properties (such as Dania Pointe and those found within the MDP) and, more importantly, provides flexibility to best respond to current and future land uses, changes in building and development patterns and changes to community demographics. Additionally, it provides external compatibility with surrounding properties similarly located within the City's RAC and encouraging compatible land uses to those permitted under the PMUD-SL zoning. In encouraging residential compatibility, PMUD-SL zoning is an effective land use control promoting high quality, compact mixed-use development complemented by commercial and recreation uses with a high level of access to surrounding developments and amenities. These elements form the basis for an attractive community and contribute to improved health, safety, and welfare for residents.

(3) DENSITY AND INTENSITY

The density and intensity of land uses within a PMUD-SL shall be consistent with the Dania Beach RAC provisions set forth in the Future Land Use Element of the City's Comprehensive Plan. As proposed, Bryan Road PMUD-SL District 1 is proposing the following maximum entitlement:

Residential Units		Non-Residential	
Maximum number of units	760	Maximum SF	86,000

(4) LOT COVERAGE, PERVIOUS AREA, AND OPEN SPACE

Lot coverage and pervious area minimums for any lot within, or combination of lots as may be separated by a public ROW, or as the whole of District 1 may be described in accordance with those enumerations in Exhibit 4. *Pervious area* is defined as land surface that presents an opportunity for precipitation to infiltrate directly into the ground. *Open space* is defined as an area that is unencumbered by principal buildings, structures, private streets, driveways, and vehicular use areas. Any space that consists of sidewalk, water, docks, hardscape, pedestrian area, and utility areas may be considered open space. *FAR* is defined in Sec. 725 of the Code and Open-air amenities or floor space not enclosed is not to be counted therein. There is not proposed to be any minimum lot area within the development and if special tax parcels or other parcels are created, it is not the intent to impose these standards or any section of the City code on the individual parcels. The standards shall apply to the entire District 1.

Exhibit 4: Lot Coverage, Pervious Area, & Open Space

Principle Building Coverage	60% Maximum
Pervious Area	5% Minimum
Open Space	35% Minimum
FAR	4.75 Maximum

(5) MINIMUM SETBACKS AND ROADWAY EASEMENT

The following District 1 criteria is established for principal building setback purposes based on the abutting existing right of way lines.

Exhibit 5: Setbacks and Roadway Easement

	Minimum	Location Description
NW 1st Street	15'	Side
Interior	10'	Side
Bryan Rd Existing ROW	26'	Front
Bryan Rd ~~Future~~ Proposed ROW	15'	Front
Dania Beach Blvd	14'	Side
C-10 Canal*	0'	Rear

*measured from property line

Docks, floating docks, seawalls or pavilion structures are allowed to encroach into the area beyond the seawall as long as they are located within property lines. A minimum ten (10') foot wide pedestrian cross-access easement shall be dedicated within the rear property as permitted and allowed by the City of Dania Beach, South Florida Water Management District, USACE and adjacent property owners.

The appurtenances such as balconies, screening or signage are allowed to overhang into any setback up to a maximum of 7.5'. The building setback is allowed to be reduced in the event a right-of-way dedication is required by an agency in the future and authorized by the City of Dania Beach.

(6) BUILDING SEPARATION

Dania Beach Marina represents a mixed-use integrated site design where principal and accessory buildings/structures are interconnected into one (1) unified building structure per lot or combinations thereof. Due to the nature of the development, no building separation standard is proposed. The District 1 buildings will be separated by the public right of way in Dania Beach Boulevard or potential future pedestrian area and setbacks identified in Section 5 above. In the event that this right of way is added into the development and a building is added, the minimum building separation may still be zero feet as approved by the Fire Marshal.

(7) BUILDING HEIGHT

As proposed, the Project is proposing a maximum building height of 210' above finished floor elevation, which height will include appurtenances, architectural features, front facades or similar design features that may be attached to a building.

(8) PUBLIC ACCESS & CIRCULATION

Each building use shall have access to a public street either directly or indirectly via an approach, private road, or other area dedicated to the public or private use or common easement areas. Such paved access at the ultimate right of way line shall be a minimum of 24 feet wide at the existing property line for two-way traffic. The City shall be allowed access on privately owned roadways, easements and common open space to ensure the police and fire protection of the area, to meet emergency needs, to conduct City services, and to generally ensure the health and safety of the residents. A minimum ten (10') foot wide pedestrian cross-access easement shall be dedicated within the rear property as permitted and allowed by the City of Dania Beach, South Florida Water Management District, USACE and the adjacent property owners.

District 1 will be allowed to have a continuous and connected pedestrian circulation system throughout District 1 for all buildings and uses, parking, transit and other common areas by way of the public ROW along Bryan Rd. District 1 shall have the ability to interconnect via any public function that is situated between any non-consecutive or noncontiguous lots of District 1. The property will be interconnected with District 2 of the PMUD-SL for all buildings and uses, parking, transit and common areas by way of the public ROW along Bryan Rd. Furthermore, the PMUD-SL shall be allowed to foster the use of alternative modes of transportation, which will include pedestrian, bicycle, transit, and potentially non-motorized or motorized marine vessels through measures which can include the mix and intensity of uses, building placement, utilization of green practices, transit amenities, and posting of transit route information, as applicable.

(9) OFF-STREET PARKING, STRUCTURED PARKING & LOADING

The proposed mixed-use development within District 1 has the ability to share parking facilities, surface, structured and on-street parking as needed. In addition, parking facilities shall be subject to the following;

(1) No parking space may encroach, hinder or otherwise block a public roadway.
(2) Off-Street Parking, Tandem Parking and Lift Parking may be provided as angled or 90-degree parking stalls with a minimum dimension of eight and one-half (8.5) feet wide by eighteen (18) feet deep measured along the angle of space.
(3) Off-Street Parallel parking may be provided with a minimum dimension of nine (9) feet wide by twenty-two (22) feet deep.
(4) Lift Parking and Tandem Parking may be used to satisfy minimum parking requirements.
(5) Parking Drive-Aisles may be reduced to 22 ft as only necessary.
(6) Parking Garage Columns shall be located within 2' of the entrance of a parking space.
(7) Parking Structure - Speed Ramp not to exceed 17%.
(8) Parking Structure - Park on Ramp not to exceed 6.68%
~~(9)~~ The clearance between a parking space and a wall (excluding columns) other solid obstruction shall be a minimum of 1 foot only. The application thereof is at the discretion of the Land Development Director.
(10) Wheel stops may be a maximum of 6 inches in height.

Parking ratios are based on the purpose and intent of alternate parking standards described in Sec. 265-60 and the intent of the parking reductions for mixed use developments methodology described in Sec. 265-90 of the Dania Beach Land Development Code. Warranted parking ratios are also based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All required parking for this establishment is met by the required ratios listed herein.

The development intends to implement and contribute to the Dania Beach Regional Activity Center purpose of "creating a compact work, live, shop and leisure environment that reduces transportation needs by combing uses and providing an attractive destination for tourists and local citizens", which is reflected in the parking ratios provided within the Development Design Guidelines (DDGs). The development is supportive of and promotes a "car-free" or "car-optional" lifestyle through a mixture of proximity to uses that fulfill daily needs (i.e. grocery, fitness, pharmacy, employment), increased supply of bicycle parking spaces, access to transit and ridesharing services, and a robust parking & mobility demand management plan. Through the management of parking, the development will provide the following off-street parking ratios:

Exhibit 6:Off-Street Parking

Required Parking Calculation	1.3 spaces per unit, 1 space per 250 SF of General Commercial
Bicycle Parking	Minimum 5% of Vehicle Parking for Residential Minimum 10% of Vehicle Parking for Nonresidential

Service areas including loading/unloading spaces shall be designed to include screen walls, landscaping, or other treatments to limit the visibility of the service area to the adjacent public street. Service areas shall be located outside of a public roadway and where practical, off of private drives, and identified through signage or other similar means. Accessible parking is to be provided based on the premise of the available self-park spaces.

Loading/unloading areas shall be convenient to the building(s) in which it serves. Due to the compact nature of the site, loading and unloading shall reside in the designated loading and unloading areas which may be within the parking garage. In no circumstance should loading or unloading occur in the public right-of-way unless for emergency purposes only. The sharing of such spaces (areas) between individual tenants, uses and buildings within District 1 shall be permitted. As proposed, Dania Beach Marina Redevelopment is providing the following off-street loading spaces:

Exhibit 7: Off-Street Loading

Off Street Loading Areas (minimum of 1 space)	(1) 12'x35' Berth per Building

(10) VALET PARKING & RESERVED PARKING

Up to one-hundred (100) percent of the required number of parking spaces for a use may be provided as valet parking by which attendants receive, park and deliver the automobile of occupants, tenants, customers and visitors, with or without charge. The intent of the development is for the ability of the valet to be an amenity use of the facility.

The operator must possess a valid city issued Certificate of Use, BRT and local business tax receipt for a valet service and prior to its operation. Each valet must be an employee of the operator and each must possess a valid State of Florida driver license. The operator shall have sufficient valets working at all times to avoid excessive stacking in the valet drop-off area. No excessive stacking shall exist when vehicles stacked for valet drop-off or pick-up extend into any drive aisle and impede the flow of routine traffic.

ARCHITECTURAL STANDARDS

(1) INTENT

Buildings, their overall massing and their facades should be designed to communicate a high quality, signature character with a wide appeal to a wide audience. The design should be capable of communicating the type of use being housed within the edifice.

(2) DESIGN ELEMENTS

The use of asymmetry may be utilized strategically to impart interest and relief in the design of the façade.

The design should modulate abutting wall planes and provide articulations through juxtaposed and recessed stacks and where possible. Additionally, the framing or boxing of overall façade elements and the use of double-height elements may be encouraged to provide a sense of scale and legibility to the façade. These may be further enhanced by articulating the boundaries of windows or distinguishing entire stacks of façade elements in a contrasting trim color.

The symmetry and clean lines could be further enhanced by the aluminum railings designed in a horizontal fashion. The color of the railings should be complimentary to the building color. Exterior windows and sliding doors should make use of transparency, while attempting to mediate heat gain, if feasible.

The color schemes should be made-up of a palette of contrasting and complimentary colors in light hues that are responsive to the local identity of the South Florida climate and experience.

(3) ARCHITECTURAL STYLES

The architectural style employed is a sub-tropical modern, contemporary design with design features responsive the international appeal of the South Florida region. It should accentuate sleek, clean geometric lines, overall symmetry and a balanced composition.

(4) BUILDING MATERIALS

Building materials shall be as approved by the Florida Building Code and the City. CBS construction, metal frame and or tilt-up methods may be employed. Finished walls may be finished in stucco, sealed and painted. Where desired, the use of a cladding material may be employed, provided it is consistent with the identity of the overall design and character of the building. Materials should be true and they should prove to be long-lasting. Parapets or flat roofs are allowed.

Sliding Glass Doors and windows may use “Impact” glass, as approved by the Florida Building Code. Glass exterior doors from the lobby, amenity facilities, and retail areas may use impact, clear glass as approved by the Florida Building Code. Solid exterior doors may be hurricane-rated steel doors under the Florida Building Code.

Varying window heights and sizes can be provided to breakdown the overall scale of the façade. Corner glazing can be floor to ceiling to emphasize building edges.

(5) DECORATIVE BALCONIES

Residential unit balconies should provide relief to the façade such that they protrude or recess from the main building plane. Balcony railings shall be decorative in nature to be complementary to the architectural style of the building.

(6) SITE LIGHTING

District 1 is permitted to allow site lighting consistent with the table below:

Exhibit 8: Lighting Standards

Fixture Height	Lighting fixtures shall be a maximum of 25 feet in height.
Light Source	Both LED and Metal Halide fixtures are permitted.
Light Levels	Minimum average light levels of one (1) light foot-candle in pedestrian areas. Maximum light spillage of 0.5 foot candles along areas that front residentially zoned or used land.

In addition, District 1 lighting standards shall be consistent with the MDP per the PMUD-SL. Any right-of-way photometrics are to be supplied by the agency having jurisdiction at the jurisdiction’s expense. District 1 is permitted to have decorative/enhanced lighting to accentuate landscaping or architectural elements i.e. up lighting.

(7) NOISE MITIGATION

Hours for music and entertainment. Music, singing and other forms of entertainment whether amplified or not, shall be permitted indoors at any time during business hours of any facility or business enterprise within the District, and in addition music, singing and entertainment shall be permitted outdoors within the district, however, such outdoor music, singing and entertainment shall not be permitted between the hours of 10:00 p.m. and 10:00 a.m. during weekdays and 11:00 p.m. and 10:00 a.m. on Friday, Saturday, Sunday and legal holidays. Businesses which intend to have outdoor music and entertainment will incorporate noise mitigation measures which may include materials to the extent needed, which mitigate the noise pollution. The logia areas will incorporate sound baffles and/or noise canceling technology in areas where outdoor music is incorporated.

Notwithstanding the foregoing, outdoor music and entertainment whether amplified or not, shall not be permitted in a manner which is plainly audible from a residential property for a period of one (1) continuous minute or longer. Residential property is defined as a property which is zoned Neighborhood Residential (NBHD) and occupied by a residential structure. For purposes of this section, compliance with this section shall be determined by standing on or within the real property line of the complainant's residential property.

LANDSCAPE DESIGN STANDARDS

(1) INTENT

The landscape subsection is intended to establish design standards for the planting and irrigation surrounding the site which shall be integrally designed to enhance the high-quality signature character and visual interest of District 1 while implementing Florida Friendly principles. Landscaping shall be used and located throughout the development to provide a pedestrian friendly environment for visitors and residents alike. The purpose of these provisions is to establish buffering and landscaping guidelines. The project has been designed to require buffering based upon the proximity and style of the building near the public right of way. Additionally, the project's location on a canal allows for a unique opportunity to provide environmental features and benefits where possible.

(2) DEFINITIONS

Refer to Code Section 825-50 for landscape/tree preservation related definitions unless otherwise noted herein.

(3) GREEN DESIGN PRACTICES

The Green Design Practices subsection is intended to encourage the use of recycled materials, energy efficient design, water conservation, and green building standards. Charging stations may be provided for 1 % of parking spaces within the garage. Recycling bins shall be provided to the residents. The units will be designed with energy efficient air conditioners and toilets. Showers may be water conserving and other appliances can include energy efficient standards. The irrigation system shall be designed to conserve water as well as provide a rain sensor.

(4) GENERAL LANDSCAPE & IRRIGATION STANDARDS

The General Landscape Standards subsection is intended to encourage landscaping as a tool to enhance the pedestrian experience, provide beautification, provide a delineation of access, enhance features and architecture and provide environmental enhancement and preserve the natural edge along the east property line where possible. Pedestrian areas along Bryan Road shall include canopy trees which provide shade and aesthetic enhancements without conflicting with vehicles or pedestrian movement. Florida-friendly plants and landscaping principles shall be implemented in this mixed-use landscaping project. Florida-friendly principles will be followed so that a large percentage of native species are specified to conserve water and preserve natural resources.

1. Plant Material:
    a. The plant palette used for District 1 shall be composed of a minimum of 50 percent native species for trees, shrubs and groundcovers.

2. Due to the narrow nature of the property along Bryan Road, in District 1, tree cutouts within sidewalks or paver areas and other publicly accessible plaza areas shall be provided where possible to enhance the pedestrian experience. Palms or canopy trees can be provided to enhance the building façade.
3. Root barriers:
    a. Canopy trees installed within ten (10) feet of utilities or a sidewalk shall provide a root barrier.
4. Schematic Irrigation plan submittals will be provided per City Code for the construction permit submittals.
5. Pervious area and open space minimums are to be consistent with that which is required by these development design guidelines.

(5) BUFFERS & SCREENING

The Buffers and Screening subsection is intended to protect the views of the residents and adjacent property owners while establishing defined edges for the resident's safety and security.

(A) Buffer Dimension and Design: The following establishes the minimum buffer design requirements and minimum widths:

1. C-10 Canal Buffer: Per code section 275-90(b)(1), when multi-family is adjacent to public right of way, there is no specific buffer requirement, especially as there is a canal right of way; however, existing native Mangrove trees exist in the SFWMD right of way and shall be preserved unless modified by permit from SFWMD or USACE. Potted trees/palms can be utilized to meet any buffer requirements along the canal as long as they are semi-permanent structures. This, or a mixture of potted plants along with the utilization of the green screen if desired, can be considered sufficient to meet any requirements. <u>C-10 Canal Buffer to read that the trademarked Greenscreen® (Greenscreen.com) will be utilized in situations where the potted trees/palms cannot be provided.</u>
2. NW 1st St. Buffer: The North Buffer shall include a minimum 5' wide landscape buffer which contains one canopy tree per 40 lineal feet and a continuous hedgerow. If overhead utilities limit tree height, 1 palm or understory tree per 40 LF.
3. Interior (Adjacent to District 2): The South Buffer shall include a minimum 5' wide landscape buffer which contains one canopy tree per 40 lineal feet and a continuous hedgerow.
4. Bryan Rd Buffer: The West Buffer shall include a minimum of 1 canopy per 35 lineal feet. Where conflicts with Architectural elements occur, palms may be utilized in lieu of a canopy. Additionally, tree cut outs may have shrub and/or other ground cover plant material. Pedestrian amenity areas with outdoor seating and plaza areas shall be provided where feasible and consistent with the overall architecture and site design. Within the area of future right-of-way dedication, it shall be permitted to install native grasses or sod.
5. Dania Beach Blvd Buffer: See Exhibit below.
6. Within landscape buffers, the required trees and shrubs may be clustered to provide view corridors to signage and allow for clearance for utilities, drainage and visibility at intersections. The distance between landscape cluster areas shall not exceed 50 feet subject to the location of roadways, driveways, signage and/or infrastructure.

7. Any property screening may include vinyl coated fencing in combination with identified hedging materials at the sole discretion of the developer. Screen walls or buffer walls are not permitted in any scenario.

Exhibit 9: Buffer Summary Table

Buffer	Minimum Width*	Planting Requirements
NW 1st Street	5'	1 canopy/ 40 LF + hedge (unless overhead utilities)
Interior	5'	1 canopy/ 40 LF + hedge (unless overhead utilities)
Bryan Rd Existing ROW	8'	1 canopy/ 35 LF (Where conflicts with Architectural elements occur, palms may be utilized in lieu of a canopy).
Bryan Rd Proposed ROW	8'	1 canopy/ 35 LF (Where conflicts with Architectural elements occur, palms may be utilized in lieu of a canopy).
Dania Beach Blvd	5'	3 understory/palm / 40 LF**
C-10 Canal*	Not Applicable**	1 tree and 10 shrubs / 80 LF

*measured from property line
**No width provided; buffer is provided as approved by City staff
** 3 understory may equate to a canopy tree

SIGN DESIGN STANDARDS

(1) INTENT

The sign subsection is intended to establish graphics that provide for establishment identification and directional communication, while allowing the creation of unique and informative signs. The objective of quality signage and graphics is to present a clear hierarchy of information, direction and organization. Conformity in style, materials and location of signage will be a major element in establishing the design theme continuity with the Dania Beach Marina Redevelopment design guidelines. All vehicular signs shall conform with the FDOT Index 546 sight triangle requirements.

(2) GENERAL SIGN REGULATIONS

All signs to follow the requirements of the Land Development Code Article 505 sections 505-10, 505-20, 505-30, 505-40, 505-50 and 505-90, unless otherwise noted herein.

Exhibit 10: Signage Summary Table

	Maximum
Building Identification	10% of Building Façade
	Consistent with overall design and color

Tenant Identification	One (1) sign per column bay, as needed
	Two (2) feet tall by twenty-five (26) feet in width
	Consistent with overall design, color and tenant requirements

UTILITY PROVIDER AND SERVICE

Water and wastewater service is presently available to the property and provisions have been made for the connection to these systems; connection points will be coordinated with the City of Dania Beach. Utilities are intended to be designed and developed as private infrastructure connecting to public systems. Lift Stations are to be constructed as private stations. All utilities beyond the point of service are private facilities. Utility designs will meet Broward County and Florida Department of Health and Environmental Protection Standards. Easements necessary to serve the development (internal) shall be provided as follows:

- 10' where similar utility lines are installed separately and horizontally separated by the FDEP minimum of 3 ft; or
- 20' where differing utility lines are co-located

Easements will be dedicated to the City via a separate instrument; a plat shall not be required. Development will comply with Florida State Statutes 633, Florida Administrative Code 69A, currently adopted NFPA codes, the currently adopted edition of The Florida Fire Prevention Code and the currently adopted edition of the Broward County Amendments to The Florida Fire Prevention Code.

CITY OF DANIA BEACH REVIEW PROCESS

In accordance with the purpose and intent of the Planned Mixed-Use Development District, and to encourage and facilitate quality development and redevelopment within the Regional Activity Center, the following changes, modifications, or amendments to the approved DDG, including the Master Development Plan (MDP), or site plan shall be considered Minor deviations and subject to the administrative review process described in Section 340-40(D)(6).

APPENDIX

ORDINANCE NO. 2019–018

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE REQUEST, MADE BY STEPHANIE J. TOOTHAKER, ESQ. P.A. (TOOTHAKER.ORG) AND GREENSPOON MARDER, ON BEHALF OF DANIA BEACH MARINA CORP, NV MARINA HOLDINGS LLC, RJ MARINA HOLDINGS LLC, AND PROJECT USA LLC, TO REZONE (RZ-104-19) THE PROPERTIES GENERALLY LOCATED AT 90 NORTH BRYAN ROAD, 50 SOUTH BRYAN ROAD, 70 SOUTH BRYAN ROAD, AND 150 SOUTH BRYAN ROAD IN THE CITY OF DANIA BEACH, FLORIDA, AS LEGALLY DESCRIBED IN EXHIBIT "A," A COPY OF WHICH IS ATTACHED TO THIS ORDINANCE, FROM INDUSTRIAL RESEARCH OFFICE MARINE (IROM) AND GENERAL BUSINESS (C-3) TO PLANNED SMALL LOT MIXED-USE DEVELOPMENT (PMUD-SL), SUBJECT TO CERTAIN RESTRICTIONS, PROVIDING FOR CONFLICTS; PROVIDING FOR SEVERABILITY; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, pursuant to Chapter 28, entitled "Land Development Code," (LDC) of Part 6, entitled "Development Review Procedures and Requirements," Article 645 "Rezoning" (the "City Code"), Dania Beach Marina Corp, NV Marina Holdings LLC, RJ Marina Holdings LLC, and Project USA LLC (the "Applicants") have applied to the City of Dania Beach (the "City") for approval of a Rezoning (RZ-104-19) from IROM and C-3 to PMUD-SL for property generally located at 90 North Bryan Road, 50 South Bryan Road, 70 South Bryan Road, and 150 South Bryan, as legally described in Exhibit "A;" and

WHEREAS, the City Planning and Zoning Board, sitting as the Local Planning Agency (the "LPA"), held a duly advertised public hearing on September 18, 2019 and recommended approval of the Rezoning (RZ-104-19) request; and

WHEREAS, the City Commission conducted two (2) duly noticed public hearings in accordance with law; and

WHEREAS, the City Commission finds that the approval of the proposed Rezoning (RZ-104-19) will protect the public health, safety, and welfare of the residents of the City, and further the purpose, goals, objectives and policies of the Comprehensive Plan.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the foregoing "WHEREAS" clauses are ratified and confirmed as being true and correct, and they are made a part of a specific part of this Ordinance.

Section 2. That pursuant to Chapter 28 "Land Development Code," Part 6 "Development Review Procedures and Requirements," Article 645 "Rezoning," the Rezoning request (RZ-104-19) from IROM and C-3 to PMUD-SL, for the property generally located at 90 North Bryan Road, 50 South Bryan Road, 70 South Bryan Road, and 150 South Bryan, as legally described in Exhibit "A," is approved.

Section 3. That issuance of a development permit by a municipality does not in any way create any right on the part of an applicant to obtain a permit from a state or deferral agency and does not create any liability on the part of the municipality for issuance of the permit if the applicant fails to first obtain requisite approvals or fulfill the obligations imposed by a state or federal agency or undertakes actions that result in a violation of state or federal law.

Section 4. That if any section, clause, sentence or phrase of this Ordinance is for any reason held invalid or unconstitutional by a court of competent jurisdiction, the holding shall not affect the validity of the remaining portions of this Ordinance.

Section 5. That all ordinances or parts of ordinances in conflict with the provisions of this Ordinance are repealed to the extent of such conflict.

Section 6. That this Ordinance shall be effective immediately upon its passage and adoption on second reading.

PASSED on first reading on October 7, 2019.

PASSED AND ADOPTED on second reading on October 28, 2019.

ATTEST:

Thomas Schneider

THOMAS SCHNEIDER, CMC
CITY CLERK

DANIA BEACH ESTABLISHED 1904

LORI LEWELLEN
MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

EXHIBIT "A"

LEGAL DESCRIPTION

THE SOUTH ONE-HALF OF THE SOUTHWEST ONE-QUARTER (SW 1/4) OF THE NORTHWEST ONE-QUARTER (NW 1/4) OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, LESS ALL OF THAT PORTION LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:

COMMENCING AT THE NE CORNER OF THE SE 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 26 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE 1/4 (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1111.05 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1674.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SW 1/4 OF THE NW 1/4 OF THE SE 1/4 OF THE SE 1/4 OF SAID SECTION; THENCE, NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET; THENCE, SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 150.0 FEET; THENCE , SOUTH 89 DEGREES, 17 MINUTES 30 SECONDS WEST, A DISTANCE OF 14.50 FEET; THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE S 1/2 OF THE SW 1/4 OF THE NW 1/4 OF THE SE 1/4 AND THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 118 FEET FROM THE LAST POINT OF DEFLECTION; THENCE, NORTH 87 DEGREES 05 MINUTES 43 SECONDS WEST, A DISTANCE OF 20.0 FEET; THENCE, SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 70 FEET; MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE SW 1/4 OF THE NW 1/4 OF THE SE 1/4 OF THE SE 1/4 OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.

ALSO LESS THE WEST 30.0 FEET OF THE SOUTH HALF (5 1/2) OF THE SOUTHWEST QUARTER (SW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

ALSO LESS ALL THAT PORTION OF THE SOUTH 10.0 FEET OF THE SOUTH HALF (3 1/2) OF THE SOUTHWEST QUARTER (SW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4)

OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, LYING WEST OF CENTRAL & SOUTHERN FLORIDA FLOOD CONTROL DISTRICT CANAL C-10 RIGHT OF WAY.

AND

THE NORTH ONE-HALF (N 1/2) OF THE SOUTHWEST ONE-QUARTER (SW 1/4) OF THE NORTHWEST ONE-QUARTER (NW 1/4) OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST. LESS ALL OF THAT PORTION LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:

COMMENCING AT THE NE CORNER OF THE SE 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 26 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE 1/4 (CENTERLINE OF N.W. 2ND STREET), A DISTANCE OF 1111.05 FEET; THENCE, SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1674.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF SW 1/4 OF NW 1/4 OF SE 1/4 OF SE 1/4 OF SAID SECTION; THENCE, NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET TO THE POINT OF BEGINNING; THENCE, SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 150.0 FEET; THENCE, SOUTH 89 DEGREES 17 MINUTES 30 SECONDS WEST, A DISTANCE OF 14.50 FEET; THENCE, SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE NORTH 1/2 OF SW 1/4 OF NW 1/4 OF SE 1/4 OF SE 1/4 OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.

ALSO LESS THE WEST 30.0 FEET OF THE NORTH HALF (N1/2) OF THE SOUTHWEST QUARTER (SW 1/4) OF THE NORTHWEST QUARTER (NW 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

TOGETHER WITH (CANAL PORTION)

A PORTION OF THE SOUTHEAST ONE-QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NE CORNER OF THE SE 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, THENCE SOUTH 8726'41" WEST (BASIS OF BEARING), ALONG THE NORTH LINE OF SAID SOUTHEAST 1/4 (CENTERLINE OF NORTHWEST 2ND STREET) A DISTANCE OF 1111.05 FEET; THENCE SOUTH 00'50'21" EAST, A DISTANCE OF 1677.24 FEET, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SAID SECTION; THENCE, NORTH 87°23'42" EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 87'23'42" EAST, A DISTANCE OF 28.82 FEET; THENCE SOUTH 01'58'30" EAST, A DISTANCE OF 201.92 FEET; THENCE SOUTH 15'11'27" WEST, A DISTANCE OF 92.10 FEET; THENCE SOUTH 04'24'06" WEST, A DISTANCE OF 35.50 FEET; THENCE SOUTH 87'25'33" WEST, A DISTANCE OF 49.86 FEET TO A POINT ON THE EXISTING WESTERLY RIGHT OF WAY LINE OF THE CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT C-10 CANAL RIGHT OF WAY; THENCE NORTH 02'46'39" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 59.99 FEET; THENCE SOUTH 8713'21" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 20.00 FEET; THENCE NORTH 02'4699" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 118.00 FEET; THENCE NORTH 89'09'52" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 14.50 FEET; THENCE NORTH 00°50'08" WEST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY UNE, A DISTANCE OF 150.00 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH:

PARCEL A OF "CLARKE SUBDIVISION", ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 101, PAGE 32 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

TOGETHER WITH:

A PARCEL OF LAND BEING LOCATED IN THE SOUTHEAST ONE-QUARTER (SE 1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST (SE) CORNER OF SAID SECTION 33; THENCE NORTH 01°17'46" WEST ALONG THE EAST LINE OF SAID

SECTION 33 FOR A DISTANCE OF 1,340.78 FEET; THENCE SOUTH 8730'33" WEST FOR A DISTANCE OF 1,118.51 FEET TO THE NORTHEAST (NE) CORNER OF A PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 8775, PAGE 400 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; THENCE SOUTH 01'26'53" EAST ALONG THE EAST LINE OF SAID PARCEL FOR A DISTANCE OF 50.01 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG AFORESAID LINE FOR A DISTANCE OF 25.00 FEET TO THE SOUTHEAST (SE) CORNER OF SAID PARCEL, (SAID POINT ALSO BEING THE NORTHEAST CORNER OF PARCEL A OF "CLARKE SUBDIVISION" AS RECORDED IN PLAT BOOK 101, PAGE 32 OF THE PUBLIC RECORDS OF BROWARD COUNTY,FLORIDA); THENCE SOUTH 87°30'33" WEST ALONG THE SOUTH LINE OF AFOREMENTIONED PARCEL (SAID LINE ALSO BEING THE NORTH LINE OF SAID "CLARKE SUBDIVISION" PLAT) FOR A DISTANCE OF 186.10 FEET TO THE NORTHWEST (NW) CORNER OF PARCEL A OF SAID PLAT; THENCE NORTH 4290'48" EAST, A DISTANCE OF 35.36 FEET; THENCE NORTH 873093" EAST ALONG A LINE 25 FEET NORTH OF AND PARALLEL WITH THE NORTH LINE OF SAID "CLARKE SUBDIVISION" A DISTANCE OF 161.55 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH:

A 10.00 FOOT WIDE STRIP OF LAND BEING A PORTION OF THE SOUTH 1/2 OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE NORTHEAST CORNER OF TRACT "A", "SYMONS PLAT", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 82, PAGE 49, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, A POINT ON THE SOUTH LINE OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF THE AFOREMENTIONED SOUTHEAST 1/4 OF SECTION 33; THENCE NORTH 02°54'17" EAST ON THE NORTHERLY EXTENSION OF THE EAST LINE OF SAID TRACT "A" 10.04 FEET TO A POINT ON A LINE 10.00 FEET NORTH OF AND PARALLEL TO THE AFOREMENTIONED SOUTH LINE; THENCE SOUTH 87°32'09" WEST ON SAID PARALLEL LINE 170.23 FEET TO A POINT ON THE EAST RIGHT-OF-WAY LINE OF NORTH BRYAN ROAD; THENCE SOUTH 01°29'32" EAST ON SAID RIGHT-OF--WAY LINE 10.00 FEET TO A POINT ON THE AFOREMENTIONED SOUTH LINE,

ALSO BEING THE WESTERLY EXTENSION OF THE NORTH LINE OF SAID TRACT "A"; THENCE NORTH 87°32'09" EAST ON SAID SOUTH LINE, SAID WESTERLY EXTENSION AND SAID NORTH LINE 169.46 FEET TO THE POINT OF BEGINNING.

AND

A PARCEL OF LAND IN THE S.W. 1/4 OF THE S.E. 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTH EAST CORNER OF THE S.E.1/4 OF SAID SECTION 33; THENCE RUN SOUTH 87°34'20" WEST (ON AN ASSUMED BEARING) 1183 FEET ALONG THE SOUTH LINE OF SAID S.E. 1/4 TO A POINT OF INTERSECTION WITH THE WESTERLY RIGHT OF WAY LINE OF THE CENTRAL AND SOUTH FLORIDA FLOOD CONTROL DISTRICT CANAL C-10, AND THE POINT OF BEGINNING; THENCE RUN NORTH 2°25'40" WEST 94.19 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE TO A POINT OF INTERSECTION; THENCE RUN NORTH 2°54'17" EAST 577.86 FEET ALONG SAID WESTERLY RIGHT OF WAY LINE TO AN INTERSECTION WITH THE NORTH LINE OF SAID S.W. 1/4 OF THE S.E. 1/4 OF THE S.E. 1/4: THENCE RUN SOUTH 87°32'21" WEST 169.49 FEET ALONG SAID NORTH LINE, TO AN INTERSECTION WITH A LINE 30 FEET EAST OF, AS MEASURED AT RIGHT ANGLES, AND PARALLEL TO THE WEST LINE OF SAID S.W. 1/4 OF THE S.E. 1/4 OF THE S.E. 1/4; THENCE RUN SOUTH 1°29'38" EAST 669.54 FEET ALONG SAID PARALLEL LINE, ALSO FORMING THE EASTERLY RIGHT OF WAY LINE OF BRYAN ROAD, TO AN INTERSECTION WITH SAID SOUTH LINE OF THE S.E. 1/4 OF SECTION 33; THENCE RUN NORTH 87°34'20" EAST 126.70 FEET ALONG SAID SOUTH LINE, TO THE POINT OF BEGINNING. SAID LANDS SITUATE IN BROWARD COUNTY. FLORIDA.

TRACT "A", OF "SYMONS PLAT" ACCORDING TO THE PLAT THEREOF. AS RECORDED IN PLAT BOOK 82, PAGE 49. OF THE PUBLIC RECORDS OF BROWARD COUNTY.FLORIDA, LESS AND EXCEPT THE FOLLOWING DESCRIBED PARCEL:

BEGINNING AT THE SOUTHEAST CORNER OF SAID TRACT 'A", THENCE SOUTH 87°55'33" WEST ON AN ASSUMED BEARING ALONG THE SOUTH LINE OF SAID TRACT "A" A DISTANCE OF 14.00 FEET; THENCE NORTH 21°13'56" EAST A DISTANCE OF 35.39 FEET TO THE EAST LINE OF SAID TRACT "A"; THENCE SOUTH 02°44'22" EAST

ALONG SAID EAST LINE A DISTANCE OF 32.50 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH:

A PARCEL LYING IN SOUTH FLORIDA WATER MANAGEMENT DISTRICTS C=10 CANAL RIGHT-OF-WAY, SAID RIHGT-OF-WAY AS DESCRIBED IN OFFICIAL RECORDS BOOK 1917,PAGE 535. OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; SAID PARCEL BEING IN THE SOUTHEAST QUARTER OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA; BEING MORE PARTICULARLY DESCRIBED AS:

COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHEAST QUARTER OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST;

THENCE SOUTH 87°34'20" WEST ALONG THE SOUTH LINE OF SAID SOUTHEAST QUARTER OF SECTION 33, A DISTANCE OF 1182.94 FEET TO A POINT, SAID POINT AND THE FOLLOWING 3 COURSES AND DISTANCES BEING ON THE WESTERLY LINE OF THE AFOREMENTIONED SOUTH FLORIDA WATER MANAGEMENT DISTRICT'S C-10 CANAL: (1)THENCE NORTH 02°25'40" WEST, A DISTANCE OF 55.00 FEET TO THE POINT OF BEGINNING, SAID POINT BEING ON THE NORTH RIGHT-OF-WAY LINE OF STIRLING ROAD AND THE SOUTHEAST CORNER OF TRACT A" OF SYMONS PLAT", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 82, PAGE 49. OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA;

(2) THENCE CONTINUE NORTH 02°25'40" WEST, ALONG THE EAST LINE OF SAID TRACT "A", A DISTANCE OF 39.19 FEET;

(3) THENCE NORTH 02°54'17" EAST ALONG THE EAST LNE OF SAID TRACT "A", A

DISTANCE OF 520.19 FEET;

THENCE SOUTH 44°17'40" EAST A DISTANCE OF 8.83 FEET;

THENCE SOUTH 87°0543" EAST, A DISTANCE OF 32.02 FEET;

THENCE SOUTH 02°54'17" WEST, A DISTANCE OF 101.00 FEET;

THENCE SOUTH 87°05'43" EAST, A DISTANCE OF 21.00 FEET;

THENCE SOUTH 02°54'17" WEST, A DISTANCE OF 188.33 FEET;

THENCE NORTH 87°05'43" WEST. A DISTANCE OF 22.00 FEET,

THENCE SOUTH 02°54'17" WEST, A DISTANCE OF 84.67 FEET;

THENCE NORTH 87°05'43" WEST. A DISTANCE OF 14.00 FEET;

THENCE SOUTH 02°54'17" WEST, A DISTANCE OF 177.35 FEET TO A POINT, SAID POINT

BEING ON THE NORTH RIGHT-OF-WAY LINE OF STIRLING ROAD.

THENCE SOUTH 87°34'20" WEST ALONG SAID RIGHT-OF-WAY OF STIRLING ROAD, A

DISTANCE OF 19.94 FEET TO THE POINT OF BEGINNING.

SAID LANDS LYING AND SITUATE IN THE CITY OF DANIA, BROWARD COUNTY, FLORIDA.

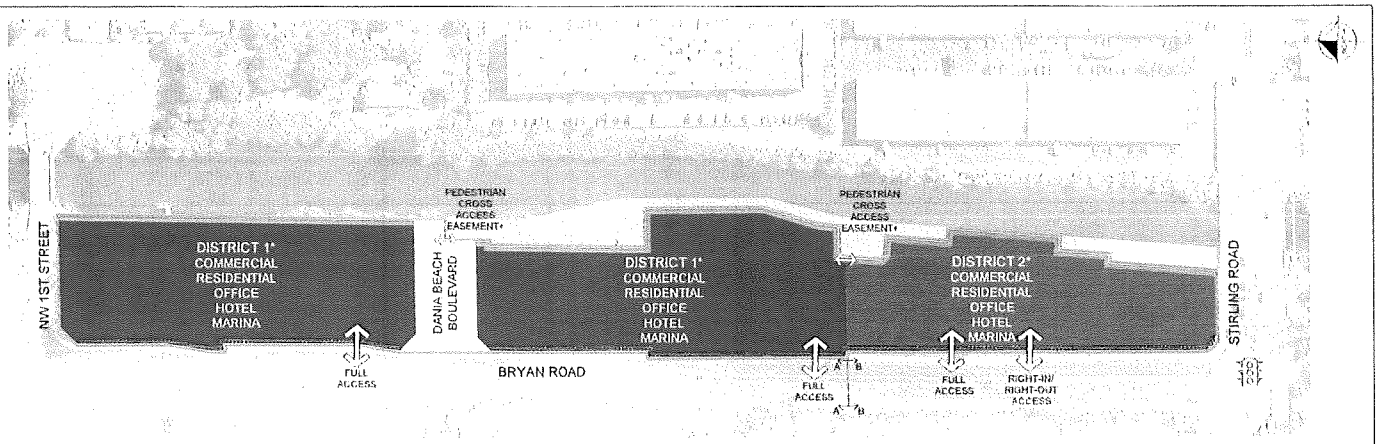
TOGETHER WITH:

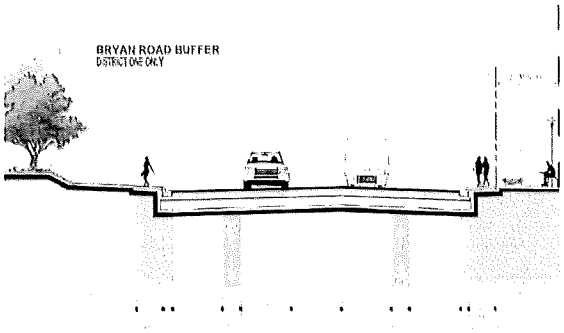
ALL OF PARCEL "A", OF "BRYAN ROAD WAREHOUSES", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN THE PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; TOGETHER WITH A 40 FOOT STRIP OF LAND LYING ADJACENT TO AND CONTIGUOUS WITH THE EASTERLY BOUNDARY OF SAID PARCEL "A".

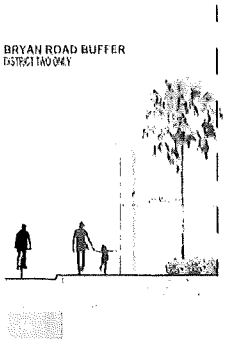
PARCEL "A" ALSO DESCRIBED AS:

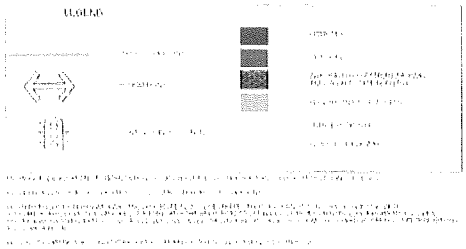
THE WEST (W.1/2) OF THE SOUTHWEST QUARTER (SW.1/4) OF THE NORTHEAST QUARTER (NE.1/4) OF THE SOUTHEAST QUARTER (SE.1/4) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, SAID LANDS SITUATED, LYING AND BEING IN BROWARD COUNTY, FLORIDA; LESS THOSE PORTIONS CONVEYED BY WARRANTY DEEDS RECORDED IN OFFICIAL RECORDS BOOK 2161, PAGE 802; OFFICIAL RECORDS BOOK 3559, PAGE 291 AND OFFICIAL RECORDS BOOK 5499, PAGE 397, ALL IN THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. SUBJECT TO EXISTING EASEMENTS, RIGHTS OF WAY, COVENANTS, RESERVATIONS AND RESTRICTIONS OF RECORDS, IF ANY.

SAID LANDS BEING IN THE CITY OF DANIA BEACH, BROWARD COUNTY, FLORIDA AND CONTAINING 102954.01 SQUARE FEET OR 2.36 ACRES MORE OR LESS.









Kimley»Horn

DANIA BEACH MARINA

MASTER DEVELOPMENT PLAN
UPDATED 10/28/2019

MDP

ORDINANCE NO. 2019-015

AN ORDINANCE OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, TO AMEND CHAPTER 28, THE "LAND DEVELOPMENT CODE," OF THE CITY'S CODE OF ORDINANCES BY AMENDING ARTICLE 100 "GENERAL USE REGULATIONS APPLYING TO ALL ZONING DISTRICTS," ARTICLE 110 "USE REGULATIONS FOR COMMERCIAL AND MIXED-USE DISTRICTS," ARTICLE 200 "USER GUIDE FOR PART 2 OF THE CODE," PART 3 "SPECIAL ZONING DISTRICTS," CREATING SUBPART 5, "PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT (PMUD-SL)," ARTICLE 350 "PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT (PMUD-SL), ARTICLE 300 "HOW TO USE," ARTICLE 405 "UTILITIES IN NEW SUBDIVISIONS," ARTICLE 410 "DRAINAGE FACILITIES," ARTICLE 420 "APPROVAL, GUARANTEE AND CONSTRUCTION OF OFF-SITE IMPROVEMENTS," ARTICLE 500 "GENERAL PROVISIONS; HOW TO USE," ARTICLE 505 "SIGN REGULATIONS," ARTICLE 510 "PRINCIPAL ARTERIAL COMMERCIAL DESIGN STANDARDS," ARTICLE 515 "GASOLINE SERVICE STATIONS," ARTICLE 520 "LARGE RETAIL ESTABLISHMENT STANDARDS," ARTICLE 530 "PARKING STRUCTURE DESIGN," ARTICLE 600 "GENERAL PROVISIONS AND APPLICATION REQUIREMENTS," AND ARTICLE 635 "SITE PLANS" TO PROVIDE FOR PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT (PMUD-SL) REGULATIONS, DEVELOPMENT REVIEW PROCEDURES, AND REQUIREMENTS; PROVIDING FOR SEVERABILITY; PROVIDING FOR CONFLICTS; PROVIDING FOR INCLUSION IN THE CODE; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Article VIII, Section 2 of the Florida Constitution, and Chapter 166, Florida Statutes, provide municipalities the authority to exercise any power for municipal purposes, except where prohibited by law, and to adopt ordinances in furtherance of such authority; and

WHEREAS, Objective V of the Future Land Use Element of the City of Dania Beach Comprehensive Plan provides that the City of Dania Beach will maintain land development regulations and zoning regulations to implement the City's Comprehensive Plan; and

WHEREAS, the City Commission of the City of Dania Beach ("City Commission") finds it periodically necessary to amend its Code of Ordinances and Land Development Code ("Code") in order to update regulations and procedures to implement municipal goals and objectives; and

WHEREAS, City staff recommends approval of the proposed changes; and

WHEREAS, the Planning and Zoning Board, sitting as the City's Local Planning Agency, has reviewed this Ordinance, and has determined that it is consistent with the City's Comprehensive Plan; and

WHEREAS, pursuant to Section 166.041 (c)(2), Florida Statutes, notice has been given by publication in a paper of general circulation in the City, notifying the public of this proposed Ordinance and of the time and dates of the public hearings; and

WHEREAS, two (2) public hearings were held before the City Commission pursuant to the published notice described above; and

WHEREAS, the City Commission finds that adoption of this Ordinance through its police powers will protect the public health, safety, and welfare of the residents of the City, and furthers the purpose, goals, objectives, and policies of the City's Comprehensive Plan.

NOW THEREFORE, BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the preceding "Whereas" clauses are ratified and incorporated as a record of the legislative intent of this Ordinance.

Section 2. That Part 1 "Use Regulations," Article 100 "General Use Regulations Applying to All Zoning Districts" of the City of Dania Beach Land Development Code is amended to read as follows:

ARTICLE 100. – GENERAL USE REGULATIONS APPLYING TO ALL ZONING DISTRICTS

Sec. 100-20. – How to use Part I of this code.

(B) *Commercial and mixed-use districts*

(3) The permitted uses within the Planned Mixed-Use District (PMUD) and Planned Small Lot Mixed-Use District (PMUD-SL) are subject to density and intensity limitations established by the city's comprehensive plan for the Dania Beach Regional Activity Center (RAC). All permitted, conditional, special exception, restricted or prohibited uses within the PMUD and PMUD-SL shall be identified and established pursuant to the approved PMUD or PMUD-SL Development Design Guidelines (DDG) consistent with the Dania Beach Regional Activity Center (RAC) and articles 340 and 350 of this chapter. The general use regulations of part I shall

apply to the PMUD and PMUD-SL only as specified in article 340 or 350, respectively, and in the approved PMUD or PMUD-SL DDG.

****

Sec. 100-60. Establishment of zoning districts.

The restrictions and controls intended to regulate development in each district are uniform for each class or kind of categorical delineation or distinction. For the purposes of protecting, promoting and improving the public health, safety and the general welfare of the citizens and residents, the city is divided into the following districts:

District map designation	Full district title	Intent and purpose of district
(B) Mixed-use zoning districts		
PMUD-SL	PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT	Encourages an integrated approach to redevelopment within the Dania Beach Regional Activity Center (RAC) encompassing a mix of uses at an intensity and density consistent with the proximity to regional roadways, the airport and seaport. This district is intended for small-scale mixed-use development in close proximity to other mixed-use development, mobility hubs, and arterial roadways.

****

Section 3. That Part 1 "Use Regulations," Article 110 "Use Regulations For Commercial And Mixed-Use Districts" of the City of Dania Beach Land Development Code is amended to read as follows:

ARTICLE 110. USE REGULATIONS FOR COMMERCIAL AND MIXED-USE DISTRICTS

Sec.110-10. - Applicability.

The detailed use regulations of this article do not apply within the CRA form-based districts, Planned Small Lot Mixed-Use Development District (PMUD-SL), or Planned Mixed Use Development District (PMUD) of part 3 of this code unless otherwise provided.

Sec. 110-20. - List of permitted, special exception and prohibited uses.

Included in the table below are permitted, special exception and prohibited uses within commercial districts, the Residential Office (RO) District, the Marine District, and generalized permitted and special exception uses within the mixed-use CRA form-based districts. Permitted and special exception uses shown in this table for the CRA form-based districts are not allowed in all areas of a district; therefore, the more detailed regulations of article 302 must be consulted to determine whether a particular use is permitted in any given location. Article 302 shall take precedence over this table. Unless otherwise provided, this table shall not apply to uses in the Planned Mixed Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL). All permitted, conditional, special exception, restricted or prohibited uses within the PMUD or PMUD-SL shall be identified and established pursuant to the approved PMUD or PMUD-SL Development Design Guidelines (DDG) consistent with the Dania Beach Regional Activity Center (RAC) and Articles 340 and 350 of this chapter.

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Sec. 110-50. Proximity of alcoholic beverage establishments to other establishments and uses.

(A) [Applicability.] The distance separation requirements of this section shall not apply to:

(1) The sale of beer or wine or both for consumption off-premises; and

(2) Restaurants and cafes (including outdoor or open-air cafes specifically approved by the city commission) serving beer, wine, and liquor, for consumption on the premises only,

that are located within the Community Redevelopment Area form-based code districts; and

(3) Vendors operating in compliance with Design Development Guidelines (DDG) approved for property zoned Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL).

****

Section 4. That Part 2 "Site Development Regulations," Article 200 "User Guide for Part 2 of the Code" of the City of Dania Beach Land Development Code is amended to read as follows:

ARTICLE 200. USER GUIDE FOR PART 2 OF THE CODE

Sec. 200-40. - How part 2 of this code relates to the CRA form-based and PMUD regulations.

(B) Unless otherwise provided, site development regulations for the Planned Mixed Use Development District (PMUD) are specified within Article 340 of this chapter and within the approved Development Design Guidelines (DDG). Similarly, site development regulation for the Planned Small Lot Mixed-Use Development District (PMUD-SL) are specific within Article 350 of this chapter and within the approved Development Design Guidelines (DDG). However, the sections of part 2 that specifically govern airport safety, wildlife and environmentally sensitive lands shall apply to the PMUD and PMUD-SL Districts.

****

Section 5. That Part 3 "Special Zoning Districts," Subpart 6, Article 350 "Planned Small Lot Mixed-Use Development District (PMUD-SL)" of the City of Dania Beach Land Development Code is established and created to read as follows:

PART 3. – SPECIAL ZONING DISTRICTS

Part 3 addresses the special zoning districts created by the city. Each of the subparts is devoted to a separate special zoning district, as follows:

Subpart 1: Community Redevelopment Area (CRA) Form-Based Zoning Districts

Subpart 2: Hotel Overlay District

Subpart 3: Design District Overlay

Subpart 4: Port Everglades Development District (PEDD)

Subpart 5: Planned Mixed-Use Development District (PMUD)

Subpart 6: Planned Small Lot Mixed-Use Development District (PMUD-SL)

****

ARTICLE 350. – PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT (PMUD-SL)

Sec. 350-10. - Purpose.

(A) The Planned Small Lot Mixed-Use Development zoning district (PMUD-SL) is intended to encourage and facilitate quality development and redevelopment within the Dania Beach Regional Activity Center (RAC) by providing flexibility for development accommodating a functional mix of uses in a complementary and integrated manner. The increased density and mix of uses is desirable to create a compact work, live, shop and leisure environment that reduces transportation needs by combining uses and provides an attractive destination for tourists and local citizens. Increased density and intensity of use is appropriate for certain small parcels of land with access to major roads and within close proximity to airports and cruise ship facilities.

(B) The adopted PMUD-SL Development Design Guidelines (DDG) is intended to regulate development within the PMUD-SL in much the same manner as the city's Land Development Code controls development in other zoning districts.

(C) Where this article 350 and an approved PMUD-SL DDG fail to address any matter regulated by this chapter, development within a PMUD-SL shall be governed by those regulations of this chapter.

Sec. 350-20. - Uses permitted.

The PMUD-SL may only be utilized within the Dania Beach Regional Activity Center (RAC). Generalized permitted uses are those set forth in the Dania Beach RAC which include residential, hotel, commercial, recreation, office and employment center. All permitted, conditional, special exception, restricted or prohibited uses within the PMUD-SL shall be identified and established pursuant to the approved PMUD-SL Development Design Guidelines (DDG) consistent with the Dania Beach Regional Activity Center (RAC) and article 350 of this chapter. A functional mix of uses should be provided and may be horizontally and vertically mixed within a building(s) as well as within the PMUD-SL as regulated by the DDG.

Sec. 350-30. - General development standards.

(A) *Minimum size.* The minimum size for a PMUD-SL shall be ten (10) acres of contiguous or adjacent land. For the purposes of this section, contiguous is defined as directly abutting or separated only by street right-of-way.

(B) *Density and intensity.* The density and intensity of land uses within a PMUD-SL shall be consistent with the Dania Beach Regional Activity Center (RAC) provisions set forth in the Future Land Use Element of the city's Comprehensive Plan. The maximum permissible

residential densities and square footages of non-residential uses within a PMUD-SL shall be established in the PMUD-SL DDG approved by the city commission. No building permit may be issued for development of property within a PMUD-SL except in compliance with the density and intensity limits of the PMUD-SL DDG.

(C) *Public access.* Each permitted use shall have access to a public street either directly or indirectly via an approach, private road, or other area dedicated to the public or private use or common easement guaranteeing access. The city shall be allowed access on privately owned roadways, easements and common open space to ensure the police and fire protection of the area, to meet emergency needs, to conduct city services, and to generally ensure the health and safety of the residents.

(D) *Maximum height.* The maximum height for a building shall be established in the PMUD-SL DDG approved by the city commission. The other requirements of article 220, "Supplemental Building and Structure Height Regulations (Including Lowest Finished Floor); Rooftop Regulations", shall apply unless otherwise specified in the Development Design Guidelines (DDG).

(E) *Minimum lot size or width.* No minimum lot size or width applies within a PMUD-SL, except as specified by the approved Development Design Guidelines (DDG).

(F) *Minimum setbacks.* All required setbacks within a PMUD-SL shall be as specified by the approved Development Design Guidelines (DDG). Where the rear façade of a building is oriented toward the adjacent public road, a deeper setback which includes a landscape buffer shall be provided, as specified in the approved Development Design Guidelines (DDG).

(G) *Minimum distance between structures.* Minimum distance between structures within a PMUD-SL shall be as specified in the approved Development Design Guidelines (DDG).

(H) *Minimum Floor Areas for dwelling and lodging units..* The standards and requirements of article 230 "Special Floor Area, Building Dimension and Building Size," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(I) *Offstreet loading.* The requirements of article 270 "Off-street Loading Requirements," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(J) *Outdoor lighting.* The requirements of article 280 "Outdoor Lighting Standards," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(K) *Landscaping.* The requirements of article 275 "Landscaping Requirements," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(L) *Walls, fences and hedges.* The requirements of article 235 "Walls, Fences and Hedges," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(M) *Signage.* The requirements of article 505 "Sign Regulations," shall apply unless otherwise specified in the approved Development Design Guidelines (DDG).

(N) *Roadways.* Internal private roads with access to public roads are permitted provided they are constructed to the same generally accepted engineering standards as public roads and provisions for maintenance are stipulated in the Development Design Guidelines.

(O) *Pedestrian circulation and connectivity.* The Design Development Guidelines (DDG) shall provide a continuous and connected pedestrian circulation system throughout the PMUD-SL for all buildings and uses, parking, transit, if applicable, and common areas with safe convenient connection to off-site public pedestrian ways and sidewalks. Vehicular and pedestrian cross-access will be identified within the approved DDG.

(P) *Multi-modal transportation.* The PMUD-SL shall foster the use of alternative modes of transportation, which will include pedestrian, bicycle, and transit, through measures which may include the mix and intensity of uses, building placement, utilization of green practices, transit amenities, inclusion of bus bays or transit hub, bike lanes and posting of transit route information. All applicable aspects of multi-modal transportation and mass transit will be identified within the approved DDG.

(Q) *Common areas.* The PMUD-SL should provide open space areas if applicable, such as public plazas, passive pocket parks, public art or recreational amenities that are appropriate for the proposed uses and are accessible to residents, tenants and patrons of the PMUD-SL and the general public. A contribution shall be made to the City in the amount of 0.5% of the value of construction up to a maximum contribution of $150,000, or as superseded by City Ordinance, for the funding, selection, creation, and maintenance of public art for the City.

(R) *Site plan approval.* Unless otherwise provided, site development shall comply with PMUD-SL regulations established pursuant to article 350 of this chapter and in accordance with the approved Development Design Guidelines (DDG). Where this article 350 and an approved PMUD-SL DDG fail to address any matter regulated by this chapter, a site plan within a PMUD-SL shall be governed by those regulations of Chapter 28, Part 6.

Sec. 350-40. - Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Requirements.

(A) *Master Development Plan (MDP) required for Planned Small Lot Mixed-Use Development District (PMUD-SL) zoning.* In addition to the standard rezoning application requirements, any proposed rezoning to the PMUD-SL district shall include a Master Development Plan (MDP) graphically depicting, at a minimum, the general location of land uses in building areas, building types, landscaped areas, vehicular use areas, access points from roads and waterways, street network and street types, and pedestrian and multimodal systems as applicable.

(B) *Development Design Guidelines (DDG) required for Planned Small Lot Mixed-Use Development District (PMUD-SL) zoning.* The City Commission shall review and approve DDG in connection with the review and approval of a final site plan. No building permit for a structure or building may be issued pursuant to PMUD-SL zoning except in conformance with City Commission approval of Development Design Guidelines (DDG).

(C) *Required information.* Any proposed DDG shall include the following:

(1) Permitted uses, which may include accessory uses, prohibited uses, use restrictions, conditional uses, special exception uses, and a permitted use trade-off matrix;

(2) Maximum (and minimum, if any) nonresidential square footage permitted;

(3) Maximum (and minimum, if any) number of dwelling units permitted;

(4) Illustrative graphics identifying circulation elements, which will include transit, vehicular, pedestrian and bicycle components, as applicable;

(5) Maximum height of all proposed structures;

(6) Standards specific to the PMUD-SL which differ from those in the city Land Development Code (LDC), which shall include:

(a) Minimum building setback standards;

(b) Building separation requirements;

(c) Guidelines for all structures which address design elements, architectural styles, acceptable and prohibited materials, and massing;

(d) Guidelines for residential units, including minimum habitable floor area, building design standards, and massing;

(e) Guidelines to ensure compatibility between residential and non-residential uses;

(f) Landscape standards for perimeter/common landscape areas;

(g) Guidelines for common open and public space areas and provisions for public art, as applicable;

(h) Applicable green design practices; and

(i) Other standards, guidelines or criteria applying to the PMUD-SL.

(7) Utility provider and conceptual discussion of utility service;

(8) Additional relevant information as reasonably requested by the Director of Community Development.

(C) *Conformance with Development Design Guidelines (DDG).* After rezoning to the Planned Small Lot Mixed Use Development District (PMUD-SL), no building permit for a structure or building shall be issued by the city and no development shall commence unless in conformity with the approved Development Design Guidelines (DDG) and an approved final site plan, unless a change or deviation is approved by the City of Dania Beach as provided in section 350-40(D).

(1) No building permit for a building or structure shall be issued for a portion of a PMUD-SL until a final site plan for that portion of the PMUD-SL has been approved. Subsequent to the approval of the DDG and any subsequent final site plan, all development within a PMUD-SL shall be controlled by the applicable final approved site plan. Multiple site plans may exist within a PMUD-SL. The lack of a final approved site plan for a portion of the PMUD-SL shall not prohibit the issuance of building permits or the commencement of development on portions of the PMUD-SL with a final approved site plan.

(D) *Modifications and Deviations to Development Design Guidelines (DDG) and site plans.* Any proposed change, modification or amendment to the approved DDG or site plan shall

be reviewed pursuant to the criteria and standards established within section 635-80 "Site plan modifications or deviations" of this code.

(1) *PMUD-SL Boundary Changes.* Any proposed amendment of the approved PMUD-SL which constitutes a change in the boundary of the approved PMUD-SL shall be reviewed utilizing the same procedures and approved in the same manner as the approved PMUD-SL.

(E) *Vesting of RAC land use allocations.* The approved DDG and site plan will determine the quantity and timing of RAC land use allocations. The DDG shall also establish a date after which unused square footage or residential units allocated from the RAC shall be returned unless said unused allocations have already been voluntarily returned to the city by virtue of affidavit from the officially designated agent for the PMUD-SL, or a deadline extension is granted by amendment to the PMUD-SL by the city commission.

****

Section 6. That Part 3 "Special Zoning Districts," Subpart 1 "Community Redevelopment Area (CRA) Form-Based Zoning Districts" of the City of Dania Beach Land Development Code is amended to read as follows:

SUBPART 1. – COMMUNITY REDEVELOPMENT AREA (CRA) FORM-BASED ZONING DISTRICTS

ARTICLE 300. - HOW TO USE

Sec. 300-10. - The CRA includes six form-based districts.

The Community Redevelopment Area (CRA) is divided into several zoning districts. Six (6) of those districts are form-based districts that are unique to the CRA. Article 300 shall not apply to the Planned Mixed-Use Development District (PMUD) established pursuant to Article 340, subpart 5 of part 3 of this chapter or the Planned Small Lot Mixed-Use Development District (PMUD-SL) establish pursuant to Article 350, subpart 6 of part 3 of this chapter. Each form-based zoning district has a set of regulations that apply to it, called "district development standards" in article 303. The district standards include:

****

Section 7. That Part 4 "Subdivisions and Off-Site Regulations," of the City of Dania Beach Land Development Code is amended to read as follows:

ARTICLE 400. – STREET DEDICATIONS AND DESIGN STANDARDS

Sec. 400-30. – Geometric street design standards.

Streets and sidewalks shall be designed in compliance with the standards of A Policy on Geometric Design of Highways and Streets, most recent edition, by the American Association of State Highway and Transportation Officials, unless otherwise specified in the approved planned mixed-use development district (PMUD) or planned small lot mixed-use development district (PMUD-SL) Development Design Guidelines (DDG).

****

Sec. 400-50. – Access standards for development.

Driveway spacing, width, number, and geometric standards shall be designed and constructed in compliance with the standards of A Policy on Geometric Design of Highways and Streets, most recent edition, by the American Association of State Highway and Transportation Officials, unless otherwise specified in the approved planned mixed-use development district (PMUD) or planned small lot mixed-use development district (PMUD-SL) Development Design Guidelines (DDG).

Sec. 400-60. – Street Drainage.

Drainage facilities shall be designed and constructed in compliance with the standards of A Policy on Geometric Design of Highways and Streets, most recent edition, by the American Association of State Highway and Transportation Officials, unless otherwise specified in the approved planned mixed-use development district (PMUD) or planned small lot mixed-use development district (PMUD-SL) Development Design Guidelines (DDG).

****

ARTICLE 405. – UTILITIES IN NEW SUBDIVISIONS

Sec. 405-10. – Water and sewer infrastructure.

(B) Easements shall be provided for the installation of underground utilities or relocating existing facilities in conformance with such size and location of easements as may be determined by the director of public services to be compatible with the requirements of all utility companies involved with respect to a particular utility service, unless otherwise specified in the approved

Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Design Guidelines (DDG).

****

ARTICLE 410. – DRAINAGE FACILITIES

(B) All subdivisions and development of land shall provide on-site and street drainage facilities constructed to comply with public services department standards, unless otherwise specified in the approved Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Design Guidelines (DDG).

****

ARTICLE 420. – APPROVAL, GUARANTEE AND CONSTRUCTION OF OFF-SITE IMPROVEMENTS

Sec. 420-20. – Construction drawings.

(A) ***Profiles to be submitted.*** Every person proposing to subdivide property shall furnish, along with each subdivision plat, a plan showing profiles of all streets and grade line of paving to be constructed, together with all culverts or other existing or proposed drainage structures, unless an alternative timeframe for submittal is approved as part of the Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) Development Design Guidelines (DDG). All elevations shown must be referred to United States Coast and Geodetic Survey mean sea level.

(B) ***Paved streets.*** Every person proposing to subdivide property shall pave all streets contained in the subdivision or shown on the subdivision plat and all such paving shall strictly conform to the specifications of the city, unless otherwise specified in the approved PMUD or PMUD-SL Development Design Guidelines (DDG). Due notice of intention to begin construction shall be filed with the public services director in order that arrangements for inspections may be made. The public services director shall furnish paving specifications upon request.

****

Section 8. That Part 5 "Signage and Design Regulations," of the City of Dania Beach Land Development Code is amended to read as follows:

PART 5 SIGNAGE AND DESIGN GUIDELINES

ARTICLE 500. – General Provisions; How To Use

Sec. 500-20. – Applicability

(A) The signage regulations of article 505 apply city-wide, except that signage within the Port Everglades Development District (PEDD) is regulated within article 320. Signage for PEDD is regulated separately from other areas of the city because the PEDD is the subject of an interlocal agreement between Hollywood, Dania Beach and Broward County that contains special signage provisions. Any alternative signage regulations established in the approved Development Design Guidelines (DDG) for properties zoned Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) supersede the signage regulations in article 505 of this chapter, Sign Regulations, except that signs prohibited by article 505 shall remain prohibited.

(B) The design standards in part 5 of this chapter apply to different areas and uses within the city, as indicated by the title of each article. All design regulations are found within part 5. Any alternative design standards established in the approved Development Design Guidelines (DDG) for properties zoned PMUD or PMUD-SL supersede the design standards in part 5 of this chapter, "Signage and Design Regulations".

****

ARTICLE 505. – SIGN REGULATIONS

****

Sec. 505-130. – Special signage regulations for certain locations and uses.

(A) *Applicability.* This section specifies signage regulations by type of use or location and supersedes all conflicting requirements of this article.

****

(I) *PMUD-SL.* Any specific signage regulations established by the approved Development Design Guidelines (DDG) for properties zoned PMUD-SL supersede all conflicting requirements of article 505, Sign Regulations, except that signs prohibited by article 505 shall remain prohibited.

****

ARTICLE 510. – PRINCIPAL ARTERIAL COMMERCIAL DESIGN STANDARDS

****

Sec. 510-20. – Applicability.

(A) This article shall apply to all commercially zoned properties that have frontage on any of the following roadways within the City of Dania Beach:

****

(E) Any design standards established pursuant to the approved Development Design Guidelines (DDG) for properties zoned planned mixed-use development district (PMUD) <u>or Planned Small Lot Mixed-Use Development District (PMUD-SL)</u> shall supersede the standards of article 510 Principal Arterial Commercial Design Standards.

****

ARTICLE 515. – GASOLINE SERVICE STATIONS

****

Sec. 515-20. – Applicability.

(B) Modifications from the requirements of this article can be approved by the city commission as a variance pursuant to article 625 or as a component of the approved Development Design Guidelines (DDG) for a PMUD <u>or PMUD-SL</u>.

****

ARTICLE 520. – LARGE RETAIL ESTABLISHMENT STANDARDS

Sec. 520-10. – Applicability.

This article applies to the new construction of large retail establishments, as defined in section 725-30, within Dania Beach, which may include both "big box" stores and shopping centers, with the exception of such establishments located on property zoned planned mixed-use development district (PMUD) <u>or Planned Small Lot Mixed-Use Development District (PMUD-SL)</u> with approved Development Design Guidelines (DDG) containing alternative standards. These requirements shall be in addition to requirements of articles 510 and 525.

****

ARTICLE 530. – PARKING STRUCTURE DESIGN

As referenced in section 500-20(B), design standards established in the approved Development Design Guidelines (DDG) for properties zoned planned mixed-use development district (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) supersede the design standards of article 530, Parking Structure Design.

****

Section 9. That Part 6 "Development Review Procedures And Requirements," of the City of Dania Beach Land Development Code is amended to read as follows:

PART 6 DEVELOPMENT REVIEW PROCEDURES AND REQUIREMENTS

ARTICLE 600. – GENERAL PROVISIONS AND APPLICATION REQUIREMENTS

****

Sec. 600-20. – Applicability.

The development review procedures and requirements set forth in this part shall apply to all applications for development orders required or authorized in this code for land within the City of Dania Beach with the exception of those located within an approved planned mixed-use development district (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) for which any alternative procedures and requirements established in section 340-40 or in the approved Development Design Guidelines (DDG) shall apply.

****

ARTICLE 635. – SITE PLANS

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Sec. 635-40. – Supplemental application requirements.

In addition to the general application requirements, the applicant shall provide the following materials in the quantity specified on the application form with the exception of site plans within an approved Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL), for which any alternative requirements established in the approved Development Design Guidelines (DDG) shall govern:

****

Sec. 635-50. – Site plan data requirements.

All site plans shall contain the following and any other information necessary to demonstrate compliance with all requirements of the code. Any alternative requirements established in the approved Development Design Guidelines (DDG) shall apply for site plans within a Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL). The community development director may waive particular submittal items upon a determination that such items are not applicable or not essential to a specific project.

****

Sec. 635-70. – Site plan processing.

****

(E) *Planned Mixed-Use Development District (PMUD) and Planned Small Lot Mixed-Use Development District (PMUD-SL) site plans.* Site plans submitted for property zoned PMUD or PMUD-SL, whether for the entire site, individual portion(s), or in phases shall be reviewed for consistency with the approved Development Design Guidelines (DDG), including the master development plan.

(F) *Approval.* The director, planning and zoning board or city commission, as applicable, shall approve, approve with conditions or deny the proposed site plan based upon the standards for review contained in this code, with the exception of site plans within a Planned Mixed-Use Development District (PMUD) or Planned Small Lot Mixed-Use Development District (PMUD-SL) for which any alternative procedures and standards for review established in section 340-40(D), 350-40(D), or the approved Development Design Guidelines (DDG) shall govern. All decisions of the planning and zoning board and city commission shall be made following a public hearing that is noticed pursuant to article 610, and after considering public input and the staff findings.

****

****

Section 10. That if any section, clause, sentence or phrase of this Ordinance is for any reason held invalid or unconstitutional by a court of competent jurisdiction, the holding shall not affect the validity of the remaining portions of this Ordinance.

Section 11. That all ordinances or parts of ordinances in conflict with the provisions of this Ordinance are repealed to such extent of the conflict.

Section 12. That this Ordinance shall be codified in accordance with the foregoing. It is the intention of the City Commission that the provisions of this Ordinance shall become and be made a part of the City of Dania Beach Code of Ordinances; and that the sections of this Ordinance may be renumbered or re-lettered and the word "ordinance" may be changed to "section", "article" or such other appropriate word or phrase in order to accomplish such intentions.

Section 13. That this Ordinance shall take full effect immediately upon its passage and adoption.

PASSED on first reading on September 23, 2019.

PASSED AND ADOPTED on second reading on October 7, 2019.

ATTEST:

Thomas Schneider

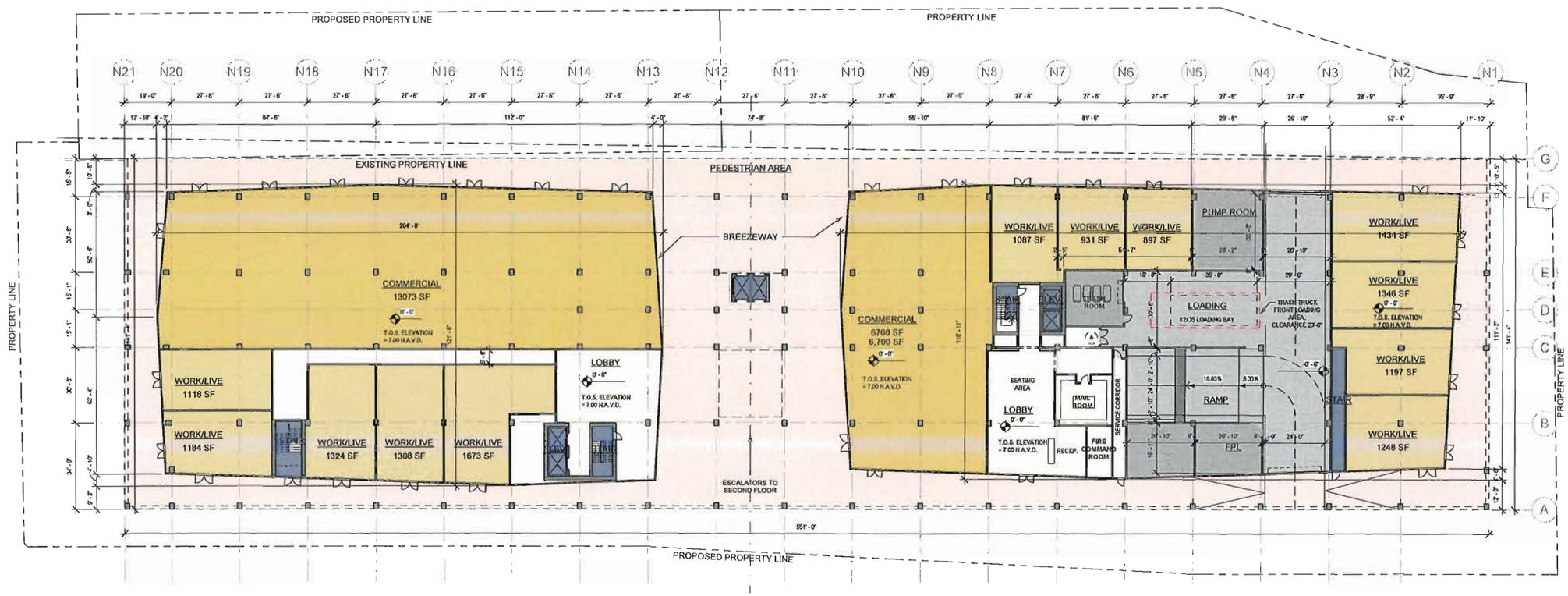
THOMAS SCHNEIDER, CMC
CITY CLERK

DANIA BEACH ESTABLISHED 1904

LORI LEWELLEN
MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY



COLOR LEGEND

- BOH
- LOBBY
- PARKING
- PEDESTRIAN AREA
- RETAIL
- VERTICAL CIRCULATION
- WORK/LIVE

GROUND FLOOR AREA SCHEDULE	PROVIDED
RETAIL AREA	10,000 SF
RESTAURANT AREA	25,000 SF
LOBBY AREA	9,094 SF
TOTAL GROSS SF	51,601 SF

PARKING SCHEDULE	REQUIRED	PROVIDED
LOADING AREA	1	1

2 / A-3.00 0100 LEVEL - COMMERCIAL & W/L UNITS
1" = 20'-0"

0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

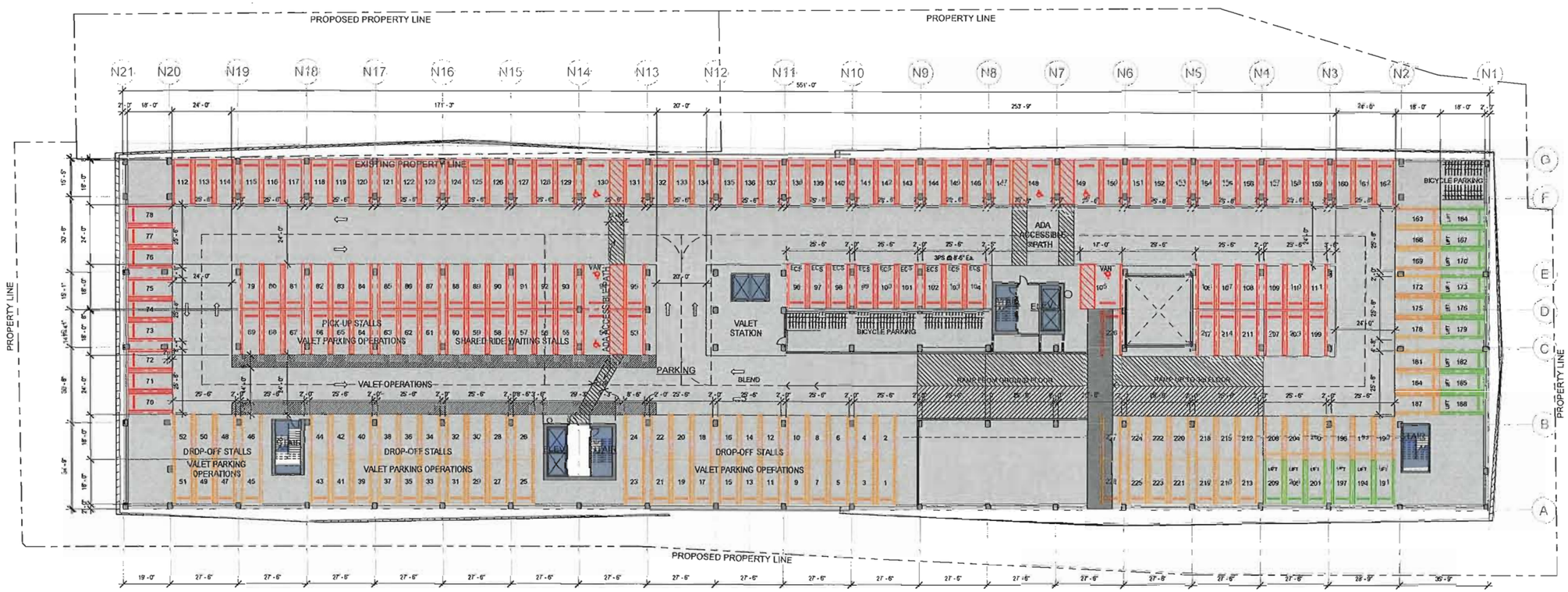
PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE

DANIA BEACH, FL

A-3.00

11-09-20



COLOR LEGEND

- PARKING
- VERTICAL CIRCULATION

0200 LEVEL AREA SCHEDULE	
	PROVIDED
PARKING AREA	76,281 SF
TOTAL GROSS SF	78,609 SF

PARKING SCHEDULE		
	REQUIRED	PROVIDED
RESIDENTIAL (380 UNITS X 1.30)	494	
NON-RESIDENTIAL 19700 SF OF RETAIL AREA (1 P.S. / 250SF)	79	
TOTAL	573	699
PARKING TYPE		
REGULAR PARKING		141
TANDEM PARKING		126
LIFT PARKING		432
TOTAL		699
BICYCLE STORAGE	REQUIRED	PROVIDED
5% OF REQ.RESIDENTIAL PARKING	24.70	50
10% OF REQ. COMMERCIAL PARKING	19.20	42
TOTAL	43.90	132

2 / A-3.01 0200 LEVEL - PARKING GARAGE
1" = 20'-0"

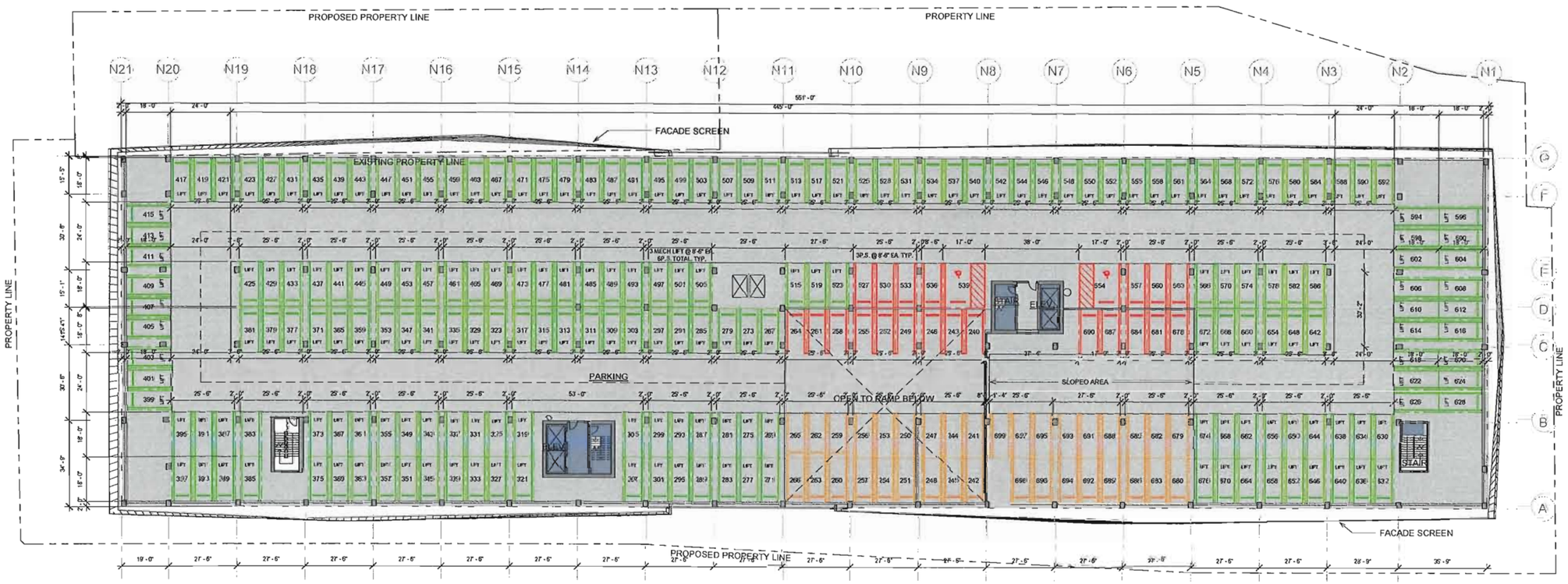
0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

A-3.01
11-09-20



COLOR LEGEND

- PARKING
- VERTICAL CIRCULATION

0300 LEVEL AREA SCHEDULE	
	PROVIDED
PARKING AREA	76,752 SF
TOTAL GROSS SF	78,609 SF

PARKING SCHEDULE		
	REQUIRED	PROVIDED
RESIDENTIAL (380 UNITS X 1.30)	494	
NON-RESIDENTIAL 19700 SF OF RETAIL AREA (1 P.S./ 250SF)	79	
TOTAL	573	699
PARKING TYPE		
REGULAR PARKING		141
TANDEM PARKING		126
LIFT PARKING		432
TOTAL		699
BICYCLE STORAGE	REQUIRED	PROVIDED
5% OF REQ.RESIDENTIAL PARKING	24.70	90
10% OF REQ. COMMERCIAL PARKING	19.20	42
TOTAL	43.90	132

2 / A-3.02 **0300 LEVEL - PARKING GARAGE**
1" = 20'-0"

0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

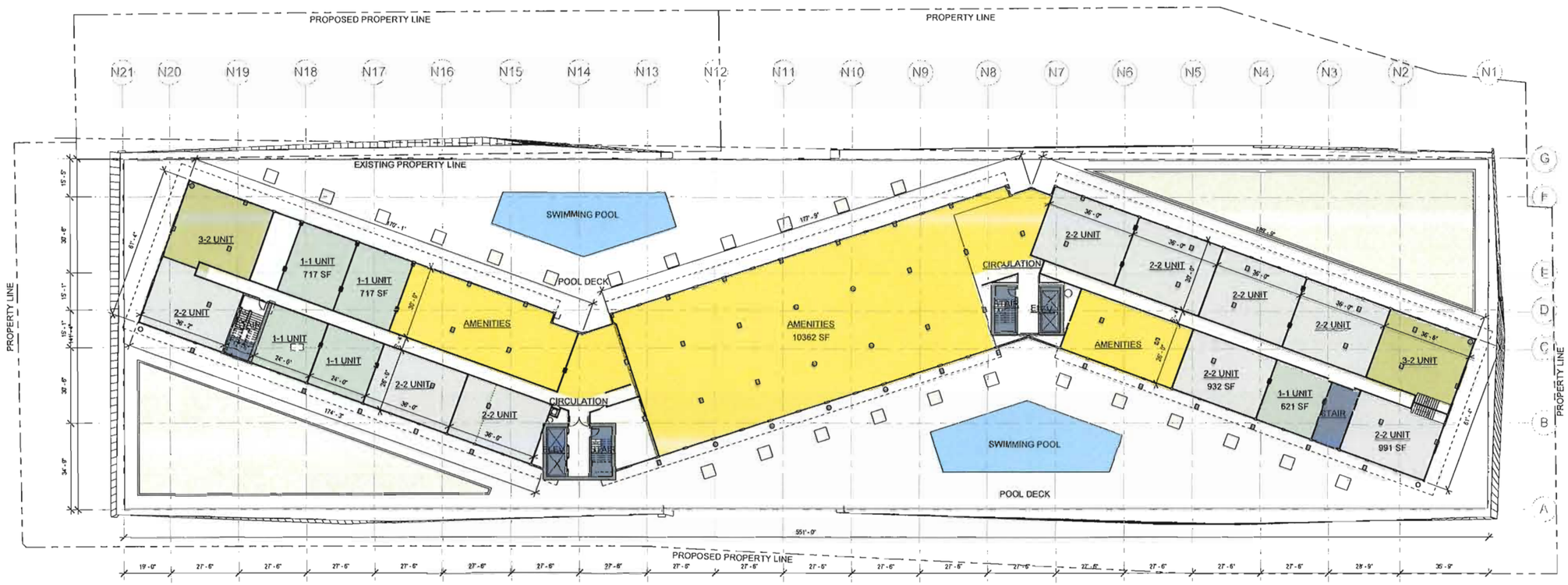
PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE

DANIA BEACH, FL

A-3.02

11-09-20



COLOR LEGEND

- 1-1 UNIT
- 2-2 UNIT
- 3-2 UNIT
- AMENITIES
- COMMON SPACE
- VERTICAL CIRCULATION

0-UNIT DISTRIBUTION SCHEDULE (0300 Series)

Count	Name
114	1-1 UNIT
186	2-2 UNIT
46	3-2 UNIT
22	STUDIO
12	WORK/LIVE
380	

UNIT DISTRIBUTION SCHEDULE - 500 LEVEL...

Count	Name
5	1-1 UNIT
9	2-2 UNIT
2	3-2 UNIT
16	

0500 LEVEL AREA SCHEDULE

	PROVIDED
RESIDENTIAL AREA	10,426 SF
AMENITIES AREA (INDOOR)	7,749 SF
TOTAL GROSS SF	25,454 SF

2 / A-3.03 0400 LEVEL - RECREATIONAL LEVEL

1" = 20'-0"

0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

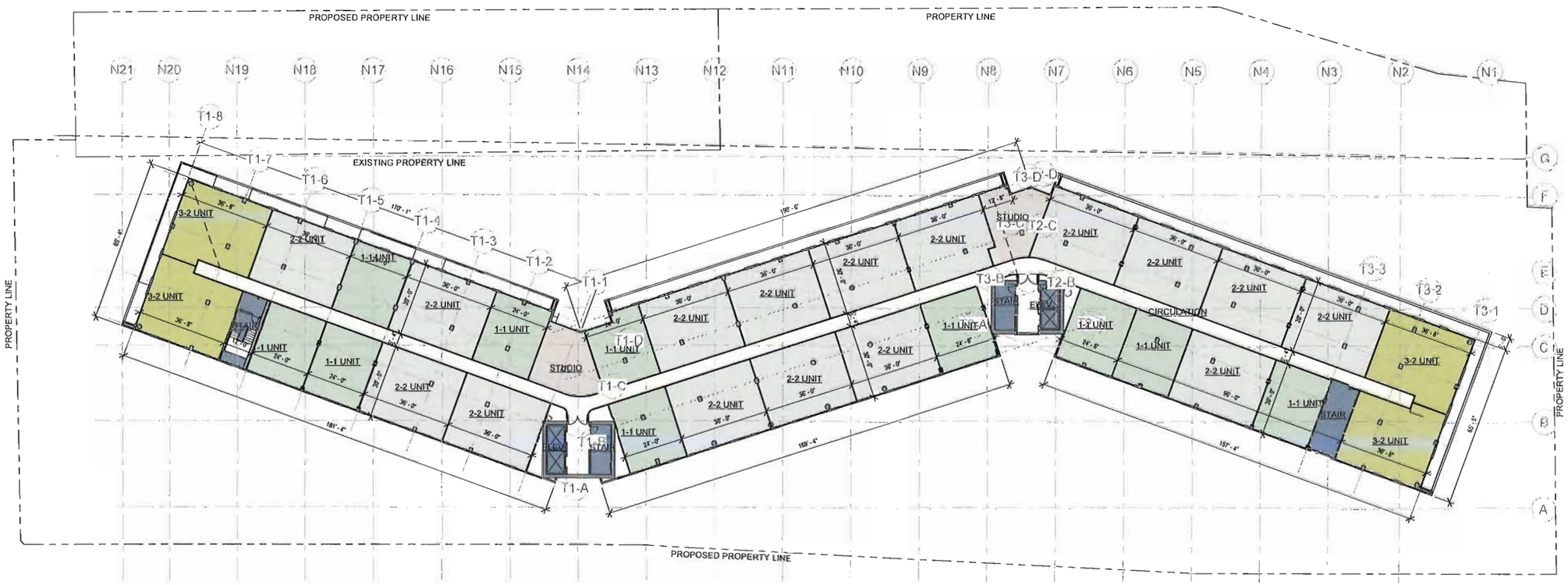
PATRICK BUSTEED
ARCHITECT
AR02081

70 WAVE

DANIA BEACH, FL

A-3.03

11-09-20



COLOR LEGEND

- 1-1 UNIT
- 2-2 UNIT
- 3-2 UNIT
- COMMON SPACE
- STUDIO
- VERTICAL CIRCULATION

0-UNIT DISTRIBUTION SCHEDULE (0300 Series)	
Count	Name
114	1-1 UNIT
186	2-2 UNIT
46	3-2 UNIT
22	STUDIO
12	WORK/LIVE
380	

UNIT DISTRIBUTION SCHEDULE - TYP. LEVEL...	
Count	Name
10	1-1 UNIT
16	2-2 UNIT
4	3-2 UNIT
2	STUDIO
32	

TYPICAL LEVEL AREA SCHEDULE	
	PROVIDED
RESIDENTIAL AREA	30,308 SF
TOTAL GROSS SF	35,537 SF

2 / A-3.04 TYP LEVEL (5th-15th) - RESIDENTIAL UNITS
1" = 20'-0"

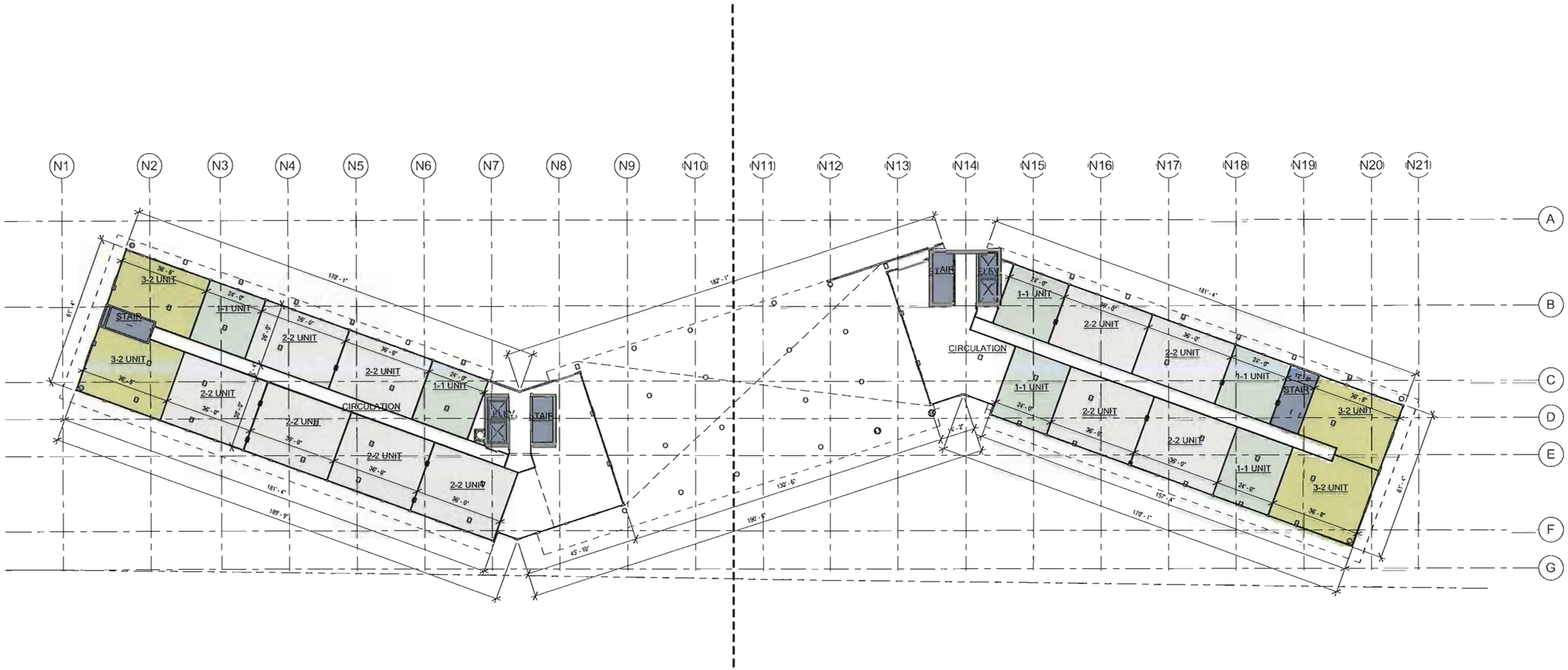
0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

A-3.04
11-09-20



COLOR LEGEND

- 1-1 UNIT
- 2-2 UNIT
- 3-2 UNIT
- COMMON SPACE
- VERTICAL CIRCULATION

0-UNIT DISTRIBUTION SCHEDULE (0300 Series)	
Count	Name
98	1-1 UNIT
186	2-2 UNIT
47	3-2 UNIT
20	STUDIO
29	WORK/LIVE
380	

UNIT DISTRIBUTION SCHEDULE - 600 LEVEL...	
Count	Name
6	1-1 UNIT
10	2-2 UNIT
4	3-2 UNIT
20	

0600 LEVEL AREA SCHEDULE	
	PROVIDED
RESIDENTIAL AREA	18,175 SF
TOTAL GROSS SF	25,739 SF

2 / A-3.05 0600 LEVEL
1" = 20'-0"

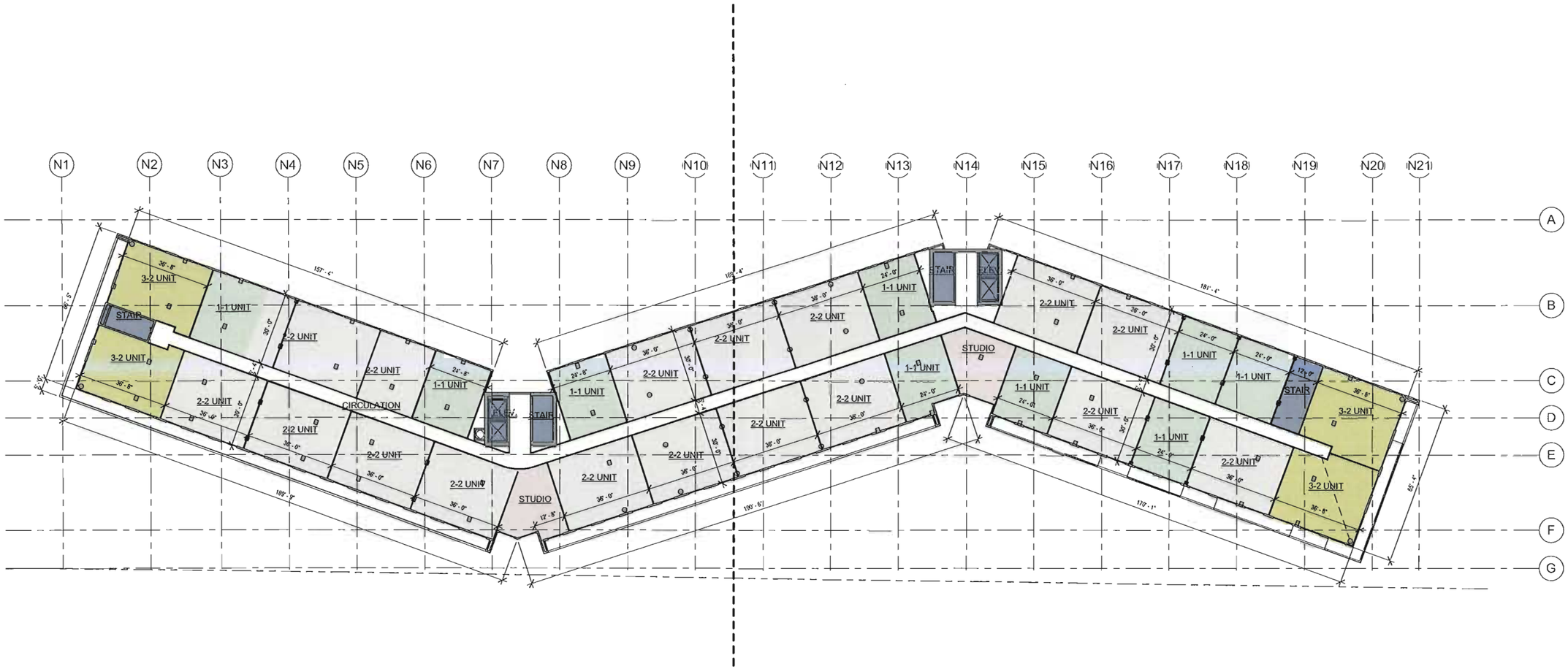
0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

A-3.05
08-06-20



COLOR LEGEND

- 1-1 UNIT
- 2-2 UNIT
- 3-2 UNIT
- COMMON SPACE
- STUDIO
- VERTICAL CIRCULATION

0-UNIT DISTRIBUTION SCHEDULE (0300 Series)	
Count	Name
98	1-1 UNIT
186	2-2 UNIT
47	3-2 UNIT
20	STUDIO
29	WORK/LIVE
380	

UNIT DISTRIBUTION SCHEDULE - TYP. LEVEL...	
Count	Name
9	1-1 UNIT
17	2-2 UNIT
4	3-2 UNIT
2	STUDIO
32	

TYPICAL LEVEL AREA SCHEDULE	
	PROVIDED
RESIDENTIAL AREA	30,308 SF
TOTAL GROSS SF	35,607 SF

2 / A-3.06 TYP LEVEL (7th-16th) - RESIDENTIAL UNITS

1" = 20'-0"

0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

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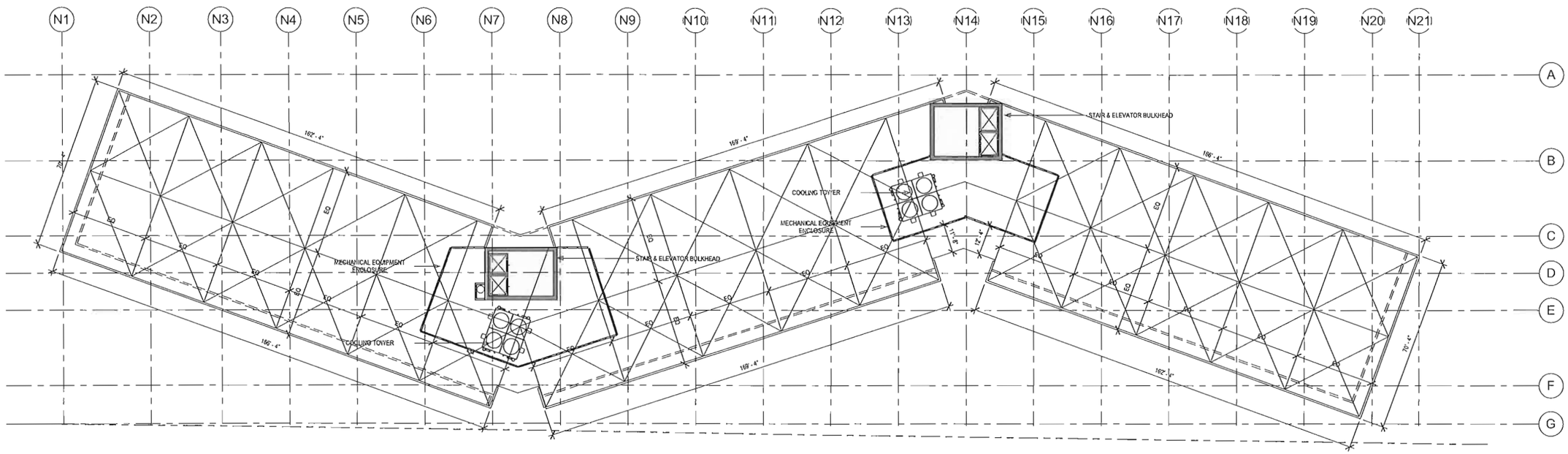
ARCHITECT
AR92081

70 WAVE

DANIA BEACH, FL

A-3.06

08-06-20



1 A-3.07 ROOF - NORTH PROPERTY

1" = 20'-0"

0 20' 40' 80'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

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ARCHITECT
AR92081

70 WAVE

DANIA BEACH, FL

A-3.07

08-06-20

1 / A-4.00 WEST ELEVATION
1" = 20'-0"

KEYNOTE LEGEND	
#	DESCRIPTION
01A	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #1.
01B	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #2.

KEYNOTE LEGEND	
#	DESCRIPTION
02	ALUMINUM WINDOW WALL ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
02C	ALUMINUM STOREFRONT ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
03	ALUMINUM GLASS DOOR/WINDOW ASSEMBLY W/KYNAR FIN. TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
04	ALUMINUM COMPOSITE MATERIAL BUILDING PANEL W/ KYNAR FINISH.

KEYNOTE LEGEND	
#	DESCRIPTION
05	TENSILE FACADE CLADDING. STICK BUILD ALUMINUM STRUCTURE WITH PREASSEMBLED & STRETCHED FABRIC PANELS.
11	ALUMINUM AND GLASS RAILING @ 42" A.F.F. W/ KYNAR FINISH.
12	SLIDING DOOR W/ KYNAR FINISH; TO MEET WIND LOAD REQUIREMENTS. FINISH COLOR TO BE SELECTED BY ARCHITECT.
15	ALUMINUM LOUVERS W/ KYNAR FINISH. SILVER ALUMINUM COLOR.
20	OVERHEAD COILING DOOR W/ HIGH PERFORMANCE COATING.
21	WEATHERPROOF MECHANICAL LOUVER ASSEMBLY IN EXTRUDED ALUMINUM FRAME W/KYNAR FINISH.
22	BUILDING IDENTIFICATION SIGN.SIZE AS PRESCRIBED BY THE DEVELOPMENT DESIGN GUIDELINES.

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

A-4.00
11-09-20

KEYNOTE LEGEND	
#	DESCRIPTION
01A	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #1.
01B	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #2.

KEYNOTE LEGEND	
#	DESCRIPTION
02C	ALUMINUM STOREFRONT ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
03	ALUMINUM GLASS DOOR/WINDOW ASSEMBLY W/KYNAR FIN. TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
04	ALUMINUM COMPOSITE MATERIAL BUILDING PANEL W/ KYNAR FINISH.
05	TENSILE FACADE CLADDING. STICK BUILD ALUMINUM STRUCTURE WITH PREASSEMBLED & STRETCHED FABRIC PANELS.

KEYNOTE LEGEND	
#	DESCRIPTION
11	ALUMINUM AND GLASS RAILING @ 42" A.F.F. W/ KYNAR FINISH
15	ALUMINUM LOUVERS W/ KYNAR FINISH. SILVER ALUMINUM COLOR.
20	OVERHEAD COILING DOOR W/ HIGH PERFPRMANCE COATING.
21	WEATHERPROOF MECHANICAL LOUVER ASSEMBLY IN EXTRUDED ALUMINUM FRAME W/KYNAR FINISH.

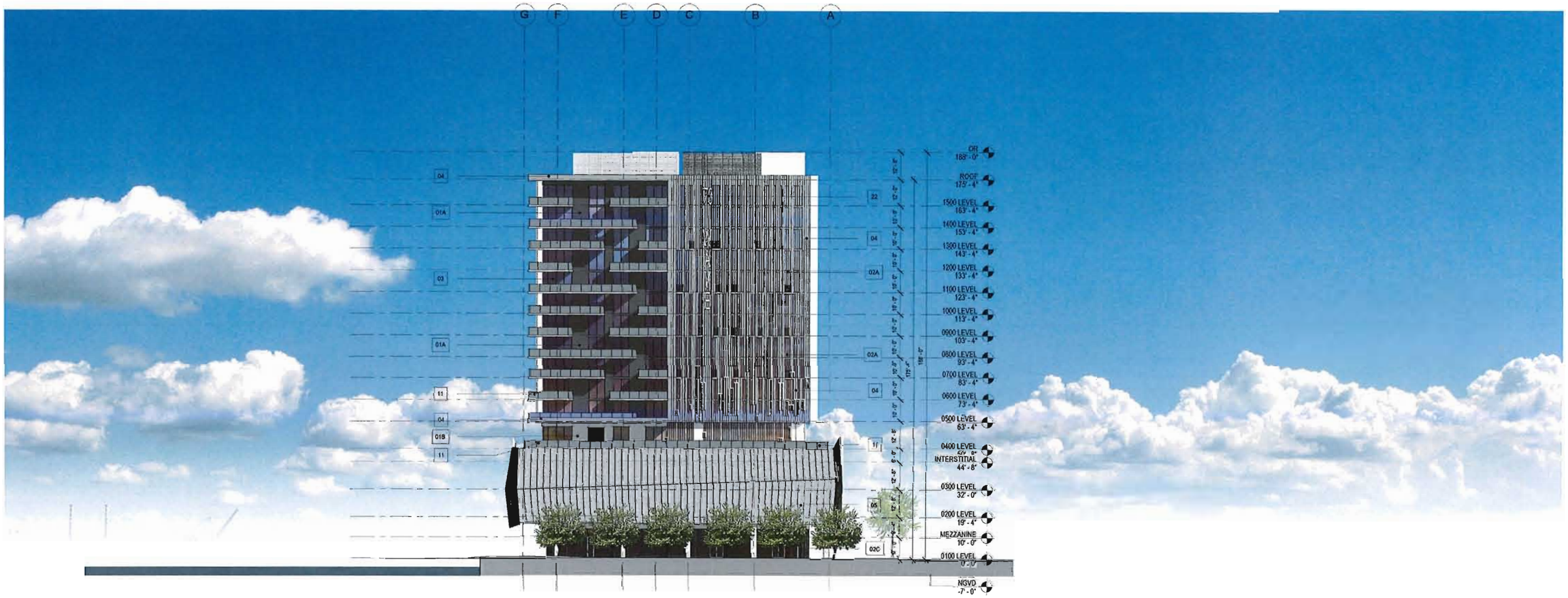
1 / A-4.01 EAST ELEVATION
1" = 20'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

A-4.01
11-09-20



KEYNOTE LEGEND	
#	DESCRIPTION
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01B	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #2.

KEYNOTE LEGEND	
#	DESCRIPTION
02A	ALUMINUM WINDOW WALL ASSEMBLY WITH INTEGRAL SLAB EDGE COVER;W/KYNAR FINISH. TO MEET WIND LOAD REQUIREMENTS.
02C	ALUMINUM STOREFRONT ASSEMBLY W/KYNAR FIN. W/LAMINATED TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
03	ALUMINUM GLASS DOOR/WINDOW ASSEMBLY W/KYNAR FIN. TINTED GLASS W/ A HIGH PERFORMANCE COATING; TO MEET WIND LOAD REQUIREMENTS.
04	ALUMINUM COMPOSITE MATERIAL BUILDING PANEL W/ KYNAR FINISH.

KEYNOTE LEGEND	
#	DESCRIPTION
05	TENSILE FACADE CLADDING. STICK BUILD ALUMINUM STRUCTURE WITH PREASSEMBLED & STRETCHED FABRIC PANELS.
11	ALUMINUM AND GLASS RAILING @ 42" A.F.F. W/ KYNAR FINISH.
22	BUILDING IDENTIFICATION SIGN.SIZE AS PRESCRIBED BY THE DEVELOPMENT DESIGN GUIDELINES.

1 / A-4.02 NORTH ELEVATION
1" = 20'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

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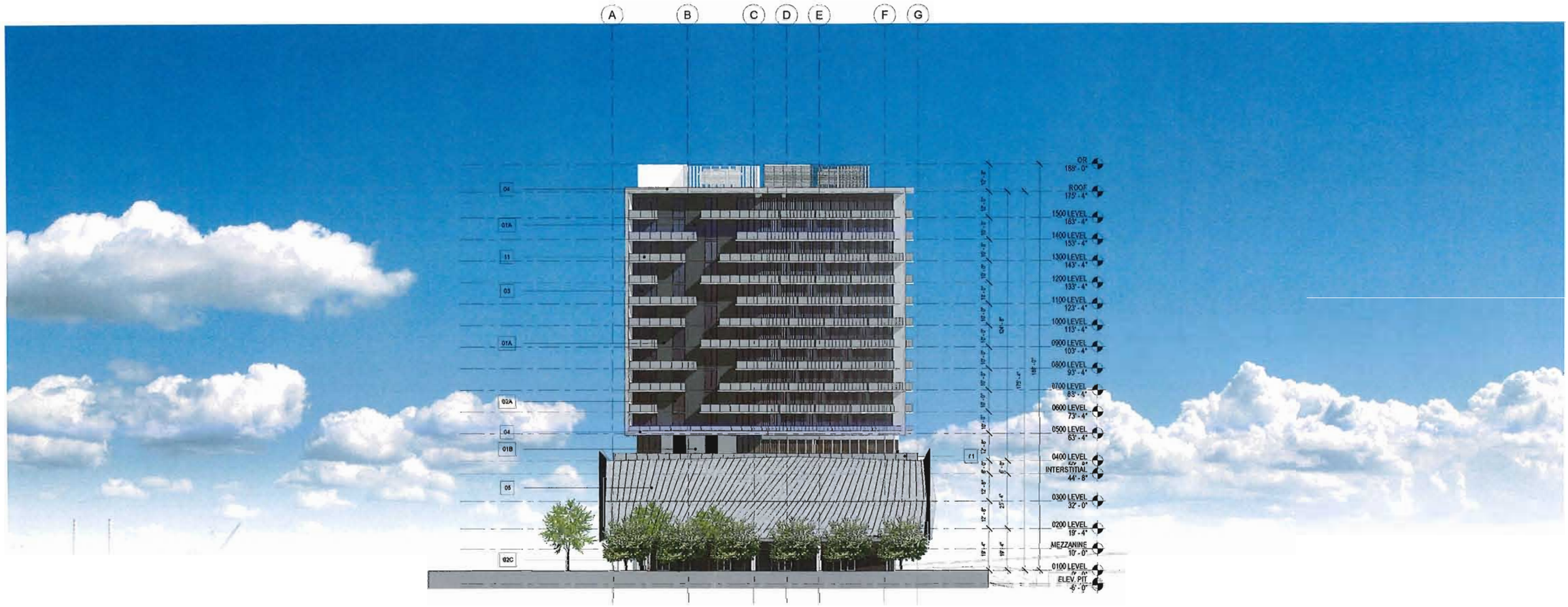
DANIA BEACH, FL

A-4.02
11-09-20



KEYNOTE LEGEND	
#	DESCRIPTION
01A	CMU/CONCRETE SUBSTRATE W/SMOOTH STUCCO FINISH, W/ HIGH BUILD 2-COAT ACRYLIC WATERPROOFING COATING (MASTERPROTECT BY BASF BUILDING SYSTEMS, OR ACCEPTABLE EQUIVALENT). PROVIDE CONCAVE TOOLED STUCCO REVEAL CONTROL JOINTS WITH A MAXIMUM AREA OF 144 SF BETWEEN JOINTS. ACCENT COLOR #1.
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04	ALUMINUM COMPOSITE MATERIAL BUILDING PANEL W/ KYNAR FINISH.

KEYNOTE LEGEND	
#	DESCRIPTION
05	TENSILE FACADE CLADDING. STICK BUILD ALUMINUM STRUCTURE WITH PREASSEMBLED & STRETCHED FABRIC PANELS.
11	ALUMINUM AND GLASS RAILING @ 42" A.F.F. W/ KYNAR FINISH.

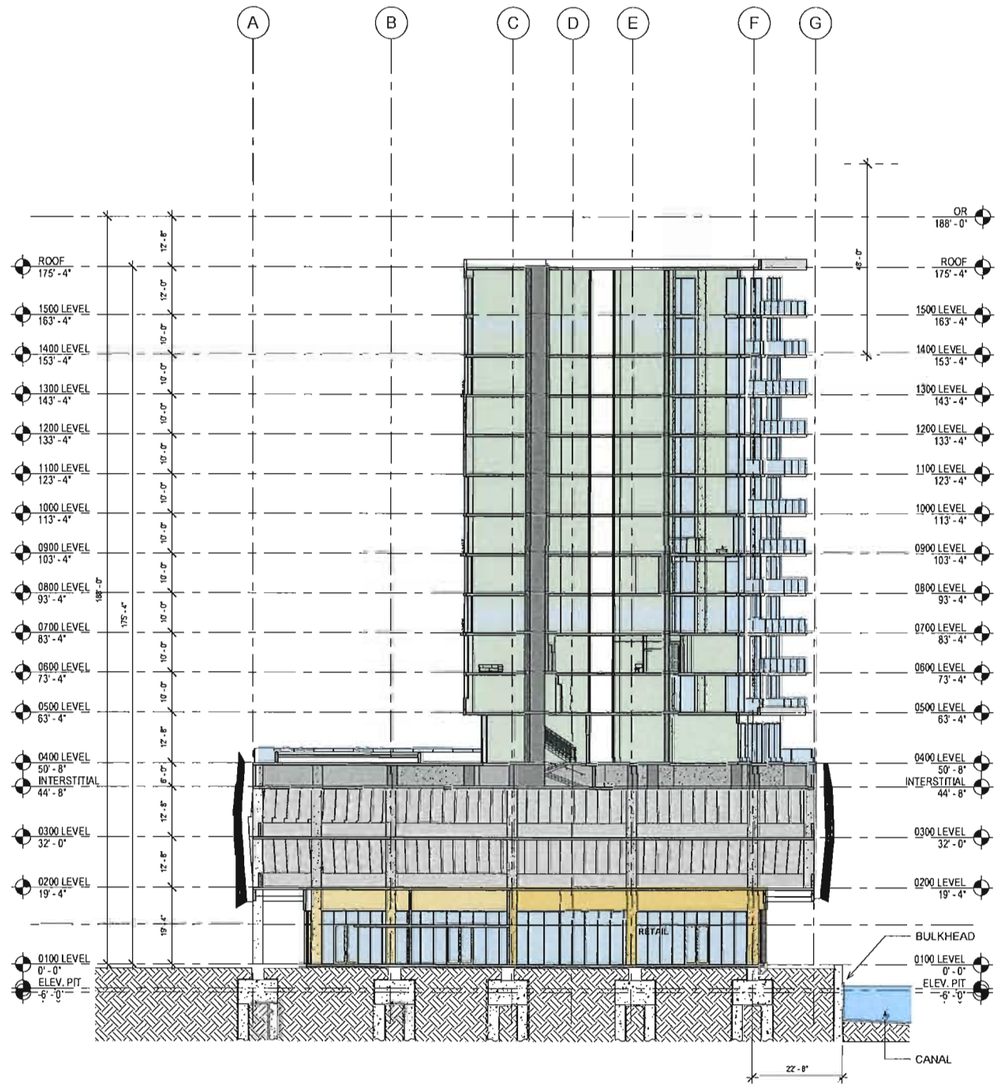
1 / A-4.03 SOUTH ELEVATION
1" = 20'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

A-4.03
11-09-20



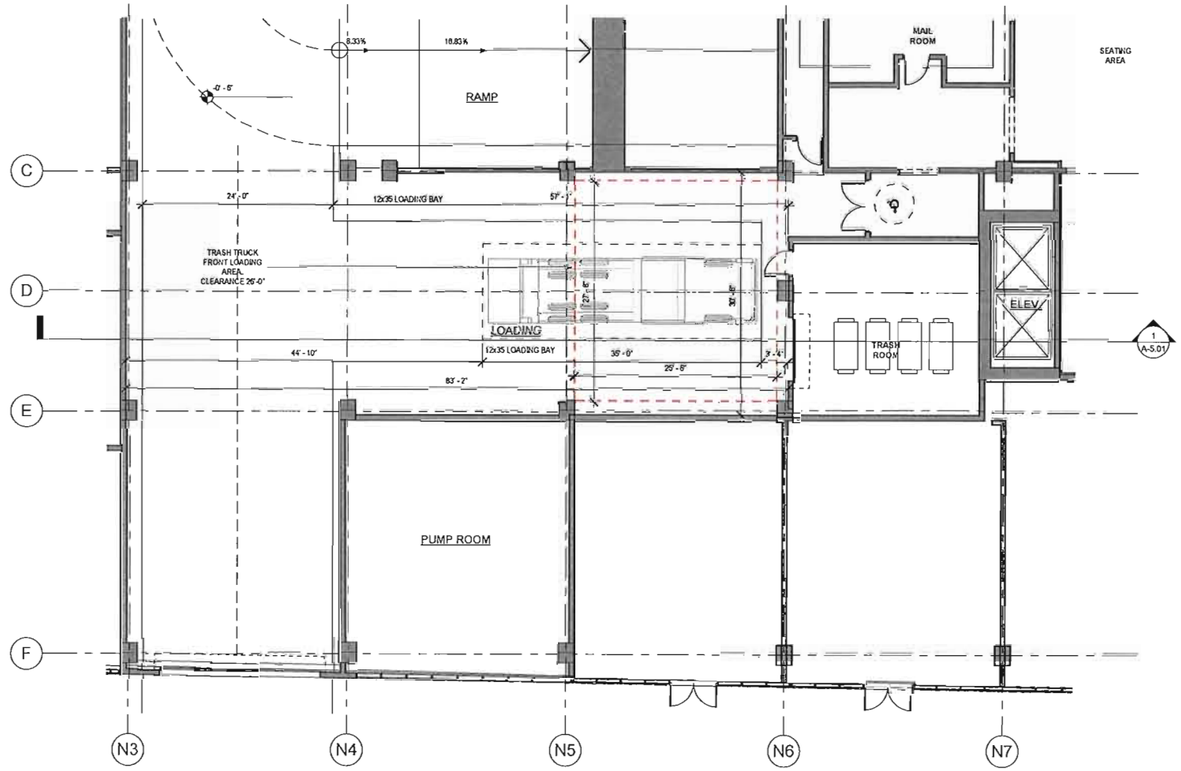
1 / A-5.00 BUILDING CROSS SECTION
1/16" = 1'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

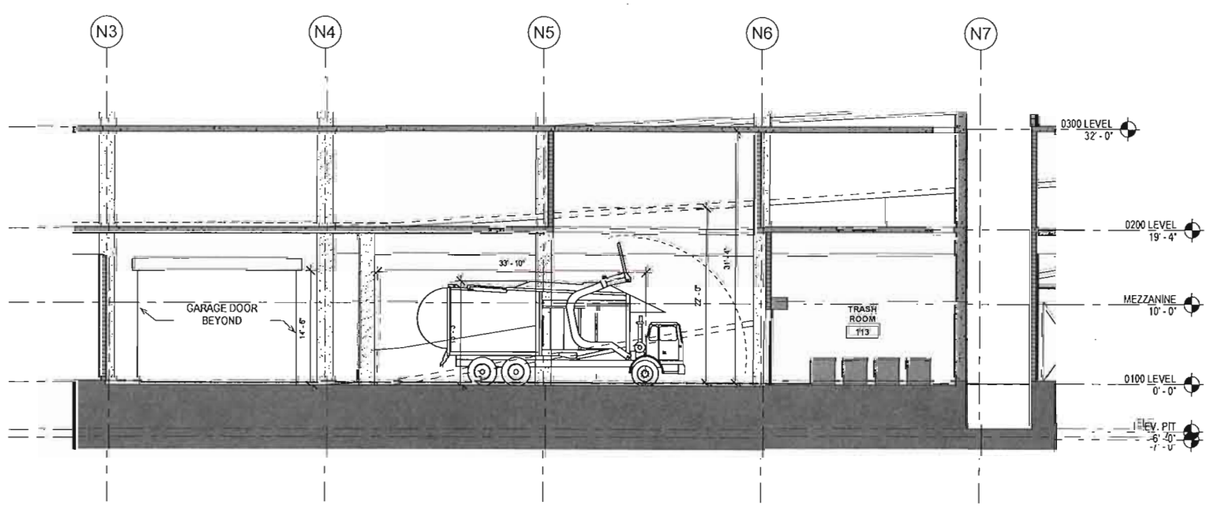
PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

A-5.00
11-09-20



2 A-5.01 LOADING AREA FLOOR PLAN
1/8" = 1'-0"



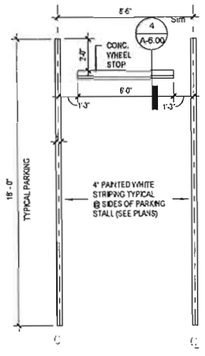
1 A-5.01 LOADING AREA SECTION
1/8" = 1'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

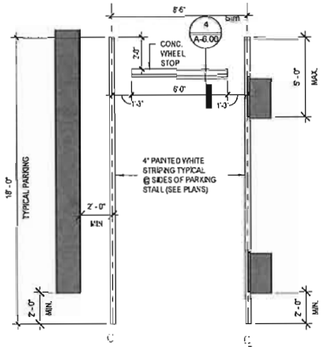
PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

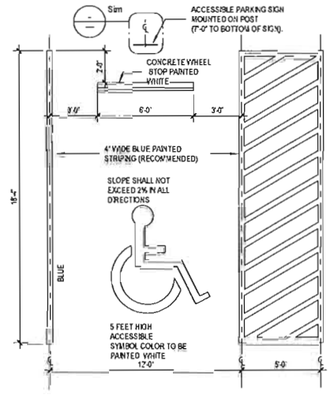
A-5.01
11-09-20



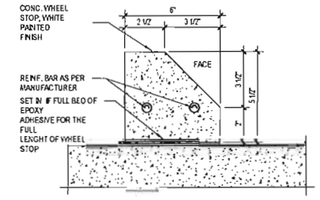
1 A-6.00 TYP. VALET PARKING STALL
1/4" = 1'-0"



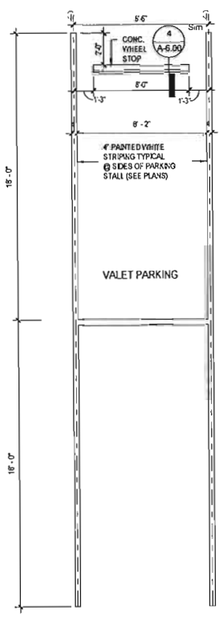
2 A-6.00 TYP. VALET PARKING STALL
1/4" = 1'-0"



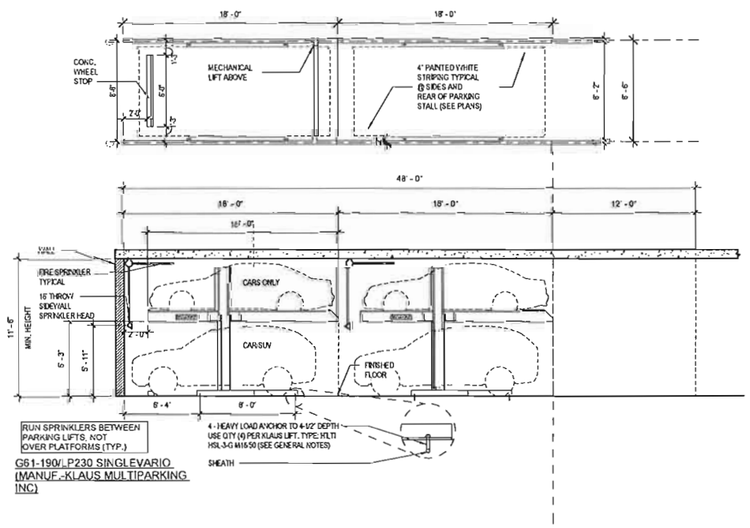
3 A-6.00 TYP. HANDICAPPED PARKING STALL
1/4" = 1'-0"



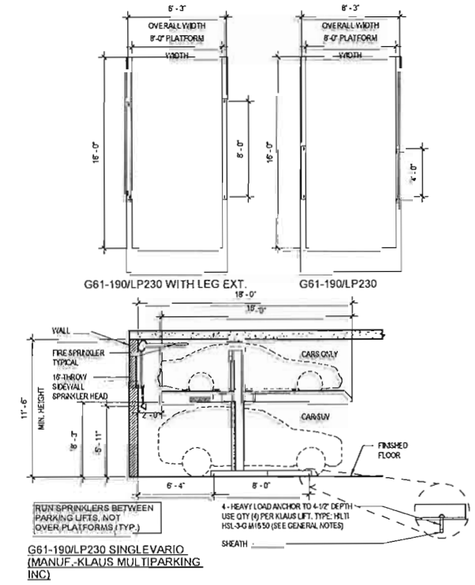
4 A-6.00 WHEEL STOP
3" = 1'-0"



5 A-6.00 TYP. VALET TANDEM STALL
1/4" = 1'-0"



6 A-6.00 PARKING STALL TANDEM LIFT
3/16" = 1'-0"



7 A-6.00 PARKING STALL SINGLE LIFT
3/16" = 1'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

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ARCHITECT
AR92081

70 WAVE
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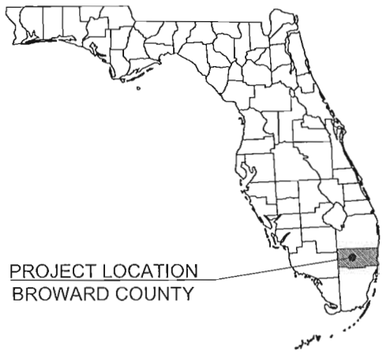
A-6.00
11-09-20



CONSTRUCTION PLANS

FOR

70 WAVE

LOCATED IN

CITY OF DANIA BEACH, FLORIDA

SECTION 33, TOWNSHIP 50S, RANGE 42E

PROJECT TEAM

OWNER/DEVELOPER
MICHAEL LALLY
DANIA BEACH OFFSHORE
90 N. BRYAN ROAD
DANIA BEACH, FL 33004
(954) 920-5595

ARCHITECT
PATRICK BUSTEED, AIA, NCARB
NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.
161 ALMERIA AVENUE
CORAL GABLES, FL 33134
(305) 443-5206

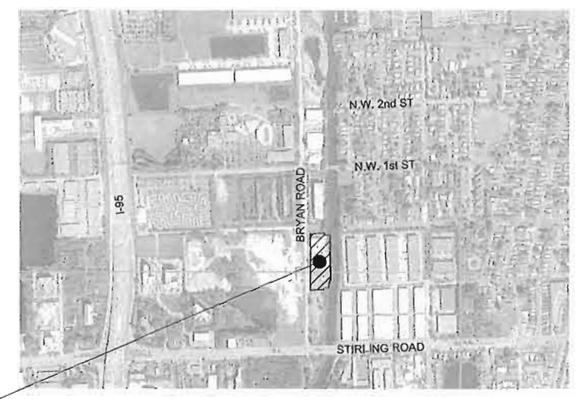
SURVEYOR
GARY B CASTEL, PLS
25465 S.W. 134th PLACE
HOMESTEAD, FL 33032
(786) 486-6786

CIVIL ENGINEER
JACOB B LAWSON, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200
VERO BEACH, FLORIDA 32960
(772) 794-4100

LANDSCAPE ARCHITECT
MATTHEW FRANKO
KIMLEY-HORN AND ASSOCIATES, INC.
189 SOUTH ORANGE AVE, SUITE 1000
ORLANDO, FL 32801
(407) 698-1511

ENVIRONMENTAL CONSULTANT
TOM FUCIGNA
KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200
VERO BEACH, FLORIDA 32960
(772) 794-4100

GEOTECHNICAL CONSULTANT
PETER READ, P.E.
UNIVERSAL ENGINEERING SERVICES
1818 7TH AVENUE NORTH, UNIT 1
LAKE WORTH, FL 33461
(561) 540-6200



VICINITY
N.T.S.

LIST OF CONTACTS

STORMWATER
BROWARD COUNTY SURFACE WATER MANAGEMENT
1 NORTH UNIVERSITY DRIVE, 201A
PLANTATION, FL 33324
(954) 519-1473
CONTACT: ASHLEY RESTA

WATER
CITY OF DANIA BEACH
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-3615

SANITARY SEWER
CITY OF DANIA BEACH
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-3615

FIRE PREVENTION
BROWARD COUNTY FIRE MARSHAL
DANIA BEACH DISTRICT
100 W DANIA BEACH BOULEVARD
DANIA BEACH, FL 33004
(954)342-4262

PLANNING AND ZONING
CITY OF DANIA BEACH
100 WEST DANIA BEACH BOULEVARD
DANIA BEACH, FL 33004
(954) 924-6805
CONTACT: CORINNE LAJOIE

ENGINEERING
CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-6805

BUILDING DIVISION
CITY OF DANIA BEACH
100 WEST DANIA BEACH BOULEVARD
DANIA BEACH, FL 33004
(954) 924-6805 EXT. 3645
CONTACT: ELEANOR NORENA

LANDSCAPING AND TREE PRESERVATION
METRIC ENGINEERING
13940 SW 136TH STREET
MIAMI, FL 33186
(305) 235-5096 EXT. 173
CONTACT: DANIEL PAROBOK

ELECTRIC PROVIDER
FLORIDA POWER AND LIGHT
4000 DAVIE ROAD EXTENSION
HOLLYWOOD, FL 33024
(954) 442-6361
CONTACT: DAVID GILL

TELEPHONE PROVIDER
AT&T
8601 W. SUNRISE BLVD.
PLANTATION, FL 33322
(954) 476-2734
CONTACT: EDUARDO IBARRA

NATURAL GAS PROVIDER
TECO PEOPLES GAS
5101 NW 21ST AVENUE, SUITE 460
(954) 453-0794
CONTACT: DAVID RIVERA

PREPARED BY:

Kimley»Horn

Sheet List Table

Sheet Number	Sheet Title
C-000	COVER SHEET
C-001	GENERAL NOTES
V-1	50 SOUTH BRYAN SURVEY
V-2	50 SOUTH BRYAN SURVEY
V-1	70 SOUTH BRYAN SURVEY
V-2	70 SOUTH BRYAN SURVEY
C-002	EROSION CONTROL PLAN
C-003	EROSION CONTROL DETAILS
C-100	SITE PLAN
C-200	PAVING GRADING AND DRAINAGE PLAN
C-300	UTILITY PLAN
C-400	GENERAL DETAILS
S-401	TYPICAL BOARDWALK SECTIONS
S-402	TYPICAL FLOATING DOCK AND GANGWAY DETAILS
C-403	UTILITY DETAILS
C-404	UTILITY DETAILS
L0.50	TREE MITIGATION PLAN - 70 WAVE
L0.51	TREE MITIGATION SPECIFICATIONS
L1.00	LANDSCAPE PLAN - 70 WAVE
L1.50	LANDSCAPE DETAILS
L1.51	LANDSCAPE SPECIFICATIONS
L2.00	SCHEMATIC IRRIGATION PLAN - 70 WAVE
L2.50	IRRIGATION DETAILS
L2.51	IRRIGATION SPECIFICATIONS
L4.00	LIGHTING PLAN - 70 WAVE
A-0.07	OVERALL FLOOR PLAN
A-3.00	0100 LEVEL FLOOR PLAN
A-3.01	0200 LEVEL FLOOR PLAN
A-3.02	0300 LEVEL FLOOR PLAN
A-3.03	0400 LEVEL FLOOR PLAN
A-3.04	0500 LEVEL FLOOR PLAN
A-3.05	0600 LEVEL FLOOR PLAN
A-3.06	0700-1600 LEVELS TYPICAL FLOOR PLAN
A-3.07	ROOF PLAN
A-4.00	WEST ELEVATION
A-4.01	EAST ELEVATION
A-4.02	NORTH ELEVATION
A-4.03	SOUTH ELEVATION
A-5.00	BUILDING CROSS SECTION

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

JACOB BRINTON LAWSON, LICENSED PROFESSIONAL ENGINEER, STATE OF FLORIDA
Jacob Lawson
DATE:

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

COVER SHEET

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-000

Plotted By:Kendall, Jeff Sheet Set:147706000 - 70 Wave Layout:C-000 COVER SHEET August 06, 2020 09:04:07am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\Plan Sheets\70 Wave\C-000 COVER SHEET.dwg
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Plotted By:Kendall, Jeff Sheet Set:147706000 - 70 Wave Layout:C-001 GENERAL NOTES August 06, 2020 09:04:17am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-001 GENERAL NOTES.dwg
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GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK, AND, UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM AS APPLICABLE TO THESE STANDARDS AND SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.

3. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. A LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.

7. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.

8. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.

11. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.

12. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.

14. OWNER IS RESPONSIBLE FOR SIDEWALKS AND SWALE IMPROVEMENTS WITHIN THE ROAD ROW.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.

2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.

3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO ANY DEMOLITION.

4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, PADS AND OTHER SITE IMPROVEMENTS, EXCEPT FOR ITEMS TO REMAIN, BE SALVAGED, REUSED, OR REINSTALLED, TO A DEPTH AGREED UPON BY COSTCO WHOLESALE; UNLESS OTHERWISE NOTED, ALL DEMOLISHED MATERIALS NO IDENTIFIED FOR RE-USE OR TO BE SALVAGED SHALL BE REMOVED FROM THE SITE AND SHALL BECOME THE PROPERTY OF THE DEMOLITION CONTRACTOR

5. DEMOLITION WORK SHALL BE IDENTIFIED ON A PLAN THAT INDICATES THE LOCATION, EXTENT OF REMOVALS AND PROPOSED PROTECTIVE MEASURES EMPLOYED DURING REMOVALS; THE PLAN SHALL IDENTIFY REQUIRED PROTECTION MEASURES FOR ENVIRONMENTAL, DUST AND NOISE REMOVAL

PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN SITE DEVELOPMENT AND COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY AND SITE DEVELOPMENT DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND SODDED.

3. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.

5. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.

6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.

7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.

8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.

9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.

10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.

11. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.

12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY OR TO FDOT STANDARDS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE SODDED OR SEEDED AS SPECIFIED IN THE PLANS, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE SODDED OR SEEDED AND MULCHED AS SHOWN ON THE LANDSCAPING PLAN.

14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

16. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTER 17-302, FLORIDA ADMINISTRATIVE CODE.

17. SOD, WHERE CALLED FOR, MUST BE INSTALLED AND MAINTAINED ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.

18. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.

19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.

20. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

WATER AND SEWER UTILITY NOTES

1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET.

3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.

4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.

5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.

7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF FLORIDA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.

9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER, CIVIL ENGINEER, AND JURISDICTIONAL AGENCY AS REQUIRED.

EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.

5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

EROSION CONTROL NOTES (CONT.)

13. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.

14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS. REFER TO SECTION 981 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR SEEDING AND MAINTENANCE REQUIREMENTS.

15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

18. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

20. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.

21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

MAINTENANCE

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEEDED AS NEEDED. FOR MAINTENANCE REQUIREMENTS REFER TO SECTION 981 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION).

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED TO 55 CUBIC YARDS / ACRE.

7. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN 2 CALENDAR DAYS FOLLOWING THE INSPECTION.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
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WWW.KIMLEY-HORN.COM CA 00000696

JACOB BRINTON LAWSON LICENSE No. 83057 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jacob Lawson
DATE:

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

GENERAL NOTES

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-001

Plotted By:Kendall, Jeff Sheet Set:147706000 - 70 Wave Layout:C-002 EROSION CONTROL PLAN August 06, 2020 09:04:27am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-002 EROSION CONTROL PLAN.dwg
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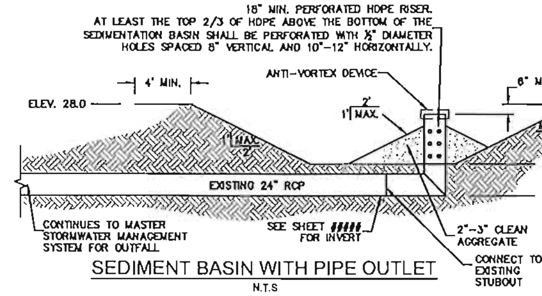


SEDIMENT BASIN WITH PIPE OUTLET

N.T.S

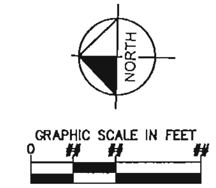
SEDIMENT BASIN SIZING CALCULATION

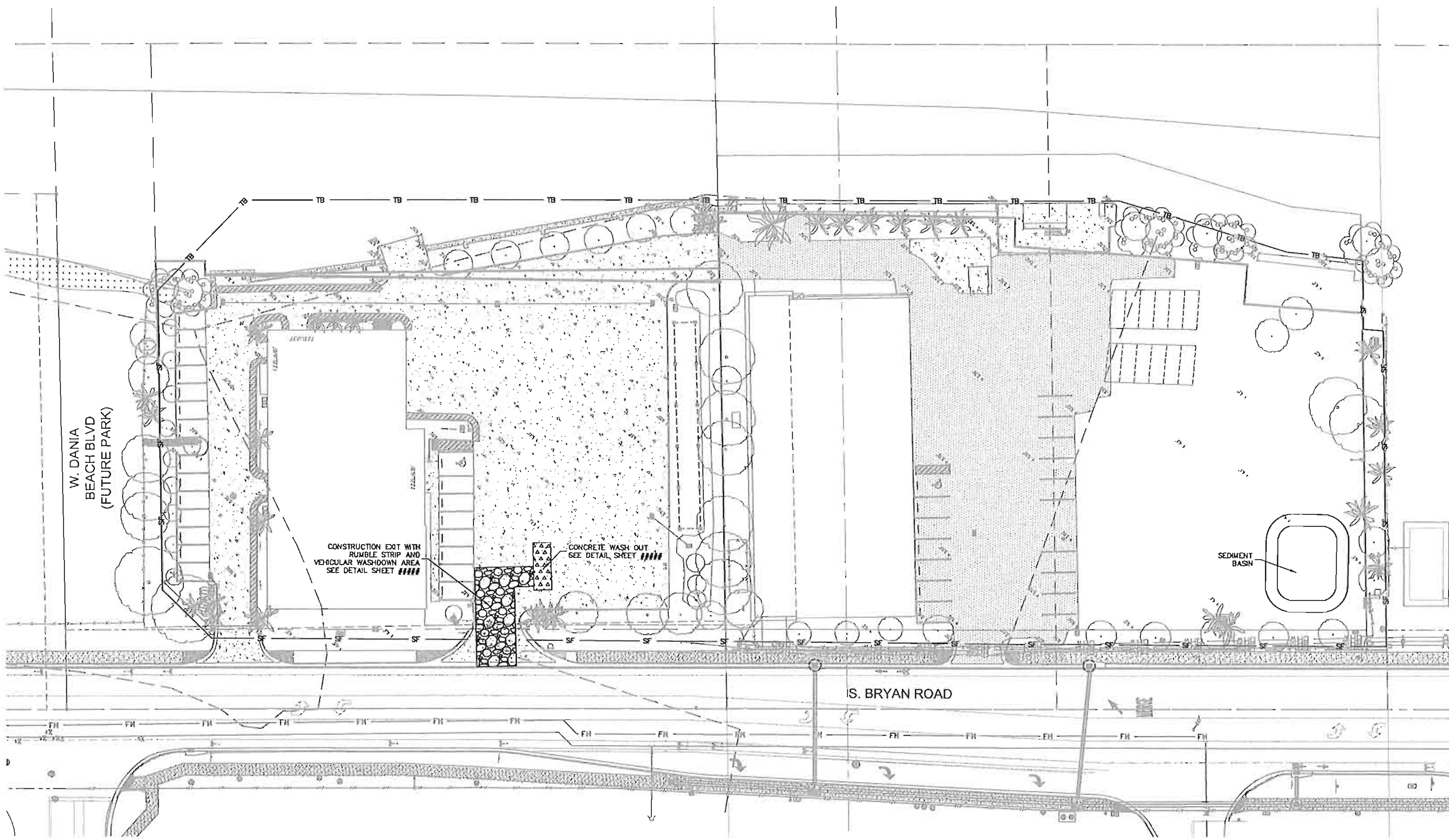
REQUIRED: 3.37 AC X 43,560 SF/1 AC X 1 INCH X 1 FT/12 IN = 12,233 FT³

PROVIDED: 0.28 AC-FT = 12,233FT³

LEGEND

- INLET PROTECTION
- CONSTRUCTION EXIT
- CONCRETE WASHOUT
- SILT FENCE
- TURBIDITY BARRIER





NOTES:

1. INSTALL SILT DIKES AND SILT FENCE AT ALL CURRENT CONSTRUCTION PHASE BOUNDARIES AS EACH CONSTRUCTION PHASE IS BEING DISTURBED.
2. SPILL KIT MUST BE PROVIDED ONSITE DURING ENTIRE DURATION OF THE PROJECT OR UNTIL REMOVAL IS APPROVED BY THE CITY. SPILL KIT MUST BE APPROPRIATE FOR SCOPE OF WORK AND EQUIPMENT ONSITE.

NOTES

1. CONTRACTOR TO CONSIDER POTENTIAL DEWATERING ACTIVITIES WHEN PREPARING BID DOCUMENTS FOR THIS PROJECT.
2. CONTRACTOR TO BE RESPONSIBLE FOR COMPLYING WITH DEWATERING PERMIT CONDITIONS OR MODIFYING PERMIT AS NECESSARY TO ACCOMMODATE UNFORSEEN SITE CONDITIONS.
3. CONTRACTOR TO USE B.M.P.'S TO ENSURE COMPLIANCE WITH NPDES AND WATER MANAGEMENT DISTRICT REGULATIONS FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND DEWATERING OPERATIONS.
4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR, OR CONCURRENT WITH LAND DISTURBING ACTIVITES.
5. CONCRETE WASHOUT AREAS, SHALL BE CONSTRUCTED SIMILAR TO TEMPORARY GRAVEL CONSTRUCTION ENTRANCES WITH A WIDTH OF 15 TO 20 FEET (CONTRACTOR'S DISCRETION, HE/SHE MAY NEED TO FIT MORE THAN ONE TRUCK AT A TIME) AND A DEPTH OF 20-FEET. SIX INCHES OF AGGREGATE OVER FILTER FABRIC IS REQUIRED ON THE BOTTOM OF THE WASHOUT AREA. THIS AREA SHALL BE SURROUNDED ON THREE SIDES BY A SILT FENCE OR EARTHEN DAM WITH A BACK END A MINIMUM OF 12-INCHES LOWER TO ALLOW FOR WATER TO POOL AT THE BACK AREA. A SIGN STATING "CONCRETE WASHOUT AREA" SHALL BE PLACED AT THE SITE.

DEWATERING (IF NECESSARY)

1. DURING THE EXCAVATION OF THE SANITARY SEWER SYSTEM, THE CONTRACTOR MUST CONSTRUCT A SEDIMENT BASIN TO PROVIDE A DISCHARGE POINT FOR DEWATERING. THE SEDIMENT BASIN CAN BE IN THE PROPOSED EXCAVATION AREA FOR EXFILTRATION OR IT CAN BE A BERMED AREA ABOVE GROUND. ALL DEWATERING MUST BE HELD IN THE SEDIMENT BASIN.
2. UNDER NO CIRCUMSTANCES WILL THE DISCHARGE FROM THE DEWATERING BE DISCHARGED OFF SITE.
3. IF THE CONTRACTOR ENCOUNTERS SILTY/SLAY SAND, WHICH CAUSE THE WATER TO BECOME TURBID, HE/SHE SHALL TREAT THE SEDIMENT BASIN WITH CHEMICAL ADDITIVE SUCH AS ALLUM IN ORDER TO PROMOTE THE COAGULATION OF THE PARTICLES WHICH ALLOW THE PARTICLES TO SETTLE AND THE WATER TO BECOME LESS TURBID.
4. THE CONTRACTOR SHALL SEQUENCE THE EXCAVATION OF THE SANITARY SEWER SYSTEM SUCH THAT A SEDIMENT BASIN WILL BE AVAILABLE AT ALL TIMES. THE SEDIMENT BASIN BEING NO-TURBID AND ACCEPTABLE FOR DISCHARGE OFF-SITE.
5. SILT ACCUMULATION FROM DEWATERING ACTIVITIES SHALL BE REMOVED TO THE IN-SITU SOIL LAYER IN ALL SEDIMENT BASINS LOCATED IN THE FOOTPRINT AREA OF PROPOSED EXFILTRATION TRENCH.

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY CONSTRUCTION EXITS												
TEMPORARY CONTROL MEASURES												
SEDIMENT CONTROL BASINS												
STRIP & STOCKPILE TOPSOIL												
ROUGH GRADE												
STORM FACILITIES												
SITE CONSTRUCTION												
PERMANENT CONTROL STRUCTURES												
FOUNDATION / BUILDING CONSTRUCTION												
FINISH GRADING												
LANDSCAPING/SEED/FINAL STABILIZATION												

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

BEFORE AND DURING GRADING

1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S), INSTALL SILT FENCE AND INLET PROTECTION ON STRUCTURES TO REMAIN.
2. DEMOLISH EXISTING STRUCTURES, IF APPLICABLE .
3. CONSTRUCT AND STABILIZE ANY NECESSARY SEDIMENT BASIN AND DRAINAGE SWALES WITH APPROPRIATE OUTFALL STRUCTURES (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL CONTROL DEVICES LISTED ABOVE)
4. INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES, CHECK DAMS, OUTLET TRAPS, ETC.)
5. PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.

HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMPS. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

AFTER GRADING AND DURING CONSTRUCTION

1. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
2. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
3. TEMPORARILY SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.
4. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, AND CURBS.
5. INSTALL RIP RAP AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
6. INSTALL INLET PROTECTION AT ALL STORM DRAIN INLETS AS EACH INLET IS INSTALLED. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
7. PREPARE SITE FOR PAVING AND PAVE SITE.
8. INSTALL APPROPRIATE INLET PROTECTION DEVICES FOR PAVED AREAS AS WORK PROGRESSES.
9. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
10. CONTACT CIVIL ENGINEER ONCE THE SITE APPEARS TO BE FULLY STABILIZED.
11. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER INSPECTION AND APPROVAL OF THE ENGINEER AND STABILIZE ANY AREA DISTURBED BY THE REMOVAL OF BMPS.
12. CONTINUE REQUIRED INSPECTION REPORTS UNTIL THE FINAL INSPECTION IS SIGNED OFF BY THE JOB SUPERINTENDENT THAT THE SITE IS FULLY STABILIZED AND THE PERMIT MAY BE TERMINATED.

MAINTENANCE (ALL PHASES)

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR/PRIMARY PERMITEE. THESE MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley-Horn
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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

JACOB BRINTON LAWSON LICENSED PROFESSIONAL ENGINEER No. 83357 — Jacob Lawson — DATE:

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

EROSION CONTROL PLAN

70 WAVE

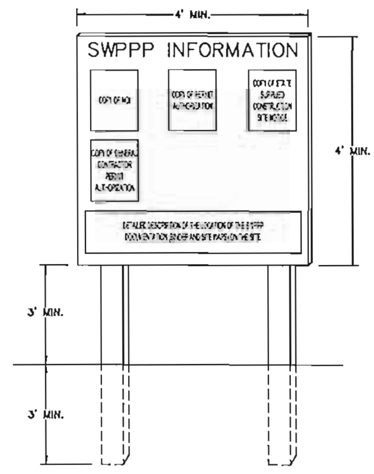
PREPARED FOR DANIA BEACH MARINE CORP.

CITY OF DANIA BEACH FLORIDA

SHEET NUMBER C-002

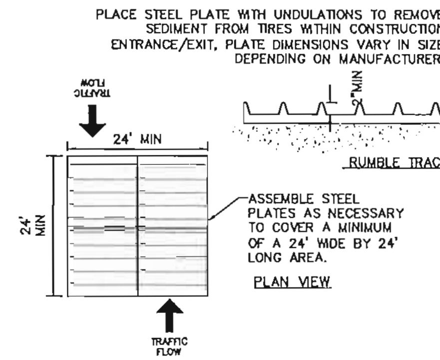
EROSION CONTROL NOTES

1. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.
6. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
7. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, SLOPE DRAIN STRUCTURE OR APPROVED CONTROL.
8. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORM WATER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
10. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROLS. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
11. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.
12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
13. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION AT ALL TIMES DURING CONSTRUCTION.
14. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN THE "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL" AND COUNTY PERMITS.
15. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN OFF OR DEWATERING ACTIVITIES.
16. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY AND SWPPP REQUIREMENTS.
17. THE POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTOR'S EXPENSE.
18. NOI TO BE POSTED ON SITE.



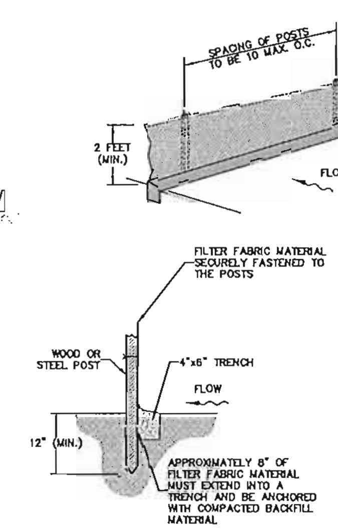
NOTES:
1. "SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.
2. SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.).
3. THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE/EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE/VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
4. ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
5. CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE LOCAL AGENCY.
6. SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
7. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THIS SWPPP INFORMATION SIGN.

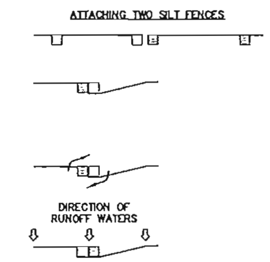
SWPPP INFORMATION SIGN
N.T.S



NOTES
1. CONTRACTOR TO USE RUMBLE TRACK™ OR EQUIVALENT PRODUCT APPROVED BY CEC.
2. DIMENSIONS OF THE COMBINED STEEL PLATES SHOULD BE A MINIMUM OF 24' WIDE BY 24' LONG AND PLACED WITHIN THE LIMITS OF THE CONSTRUCTION ENTRANCE/EXIT.
3. CONTRACTOR TO FASTEN THE PLATES TO THE EXISTING ASPHALT AS NECESSARY.

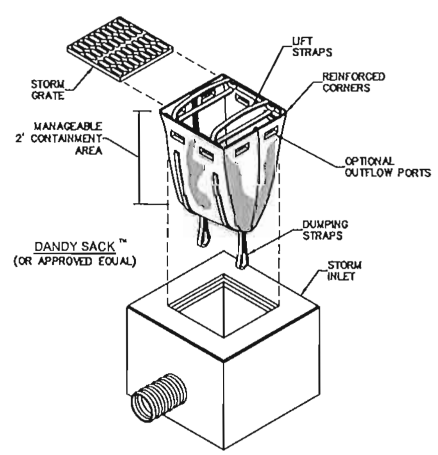
(CE) CONSTRUCTION ENTRANCE/EXIT
N.T.S.





NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE INSTALLATION
N.T.S

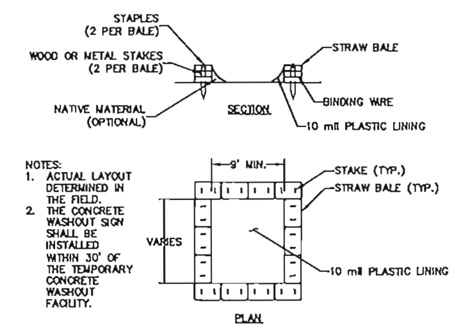


INLET INSERT
N.T.S

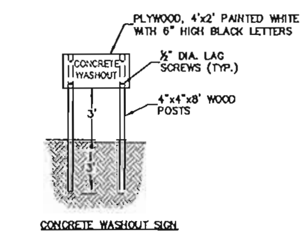
LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

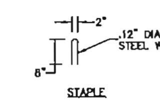
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

NOTES:
1. FOR TEMPORARY USE TO CAPTURE LARGER DIAMETER SEDIMENTS. NOT TO BE UTILIZED AS THE ONLY SEDIMENT CONTAINMENT SYSTEM
2. GEOTEXTILE WILL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEED REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. AN OIL ADSORBENT PAD OR PILLOW CAN BE PURCHASED WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY REQUIREMENTS.



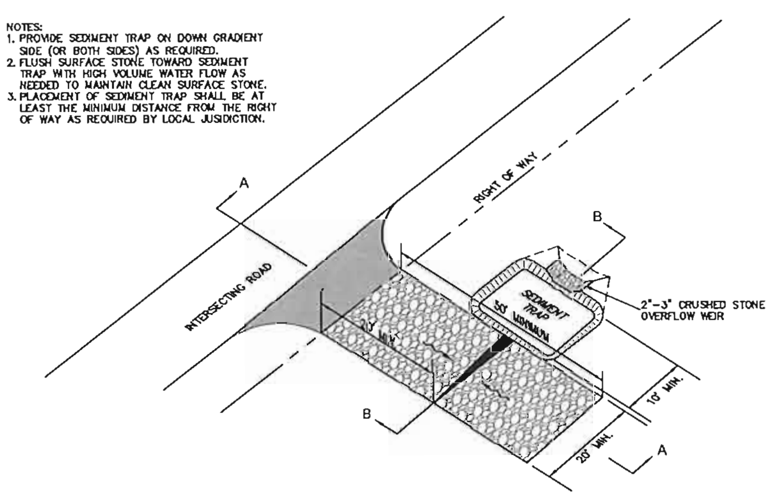
NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

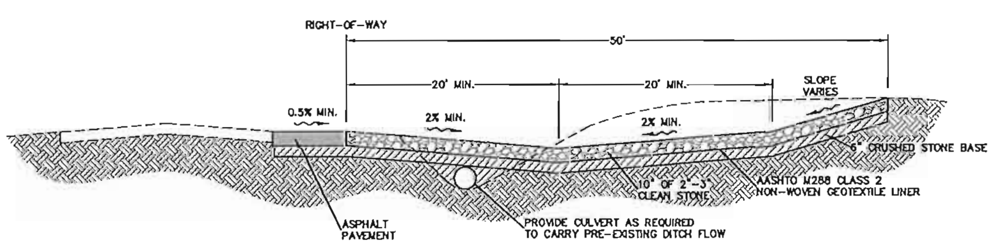


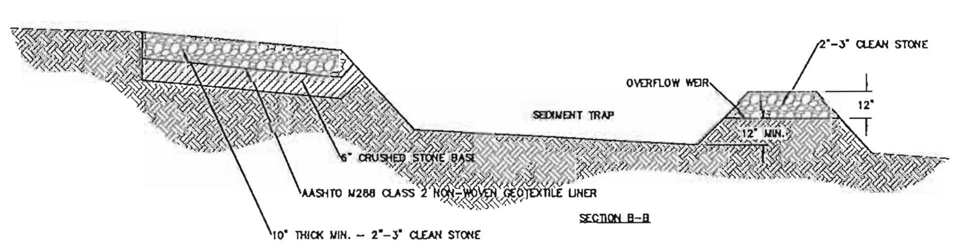


CONCRETE & STUCCO WASTE MANAGEMENT
N.T.S

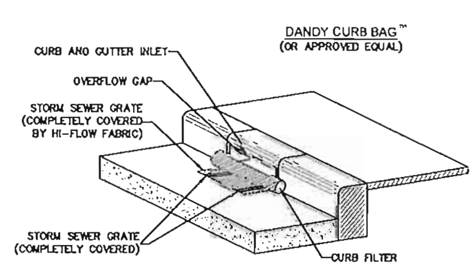
NOTES:
1. PROVIDE SEDIMENT TRAP ON DOWN GRADIENT SIDE (OR BOTH SIDES) AS REQUIRED.
2. FLUSH SURFACE STONE TOWARD SEDIMENT TRAP WITH HIGH VOLUME WATER FLOW AS NEEDED TO MAINTAIN CLEAN SURFACE STONE.
3. PLACEMENT OF SEDIMENT TRAP SHALL BE AT LEAST THE MINIMUM DISTANCE FROM THE RIGHT OF WAY AS REQUIRED BY LOCAL JUSIDICTION.

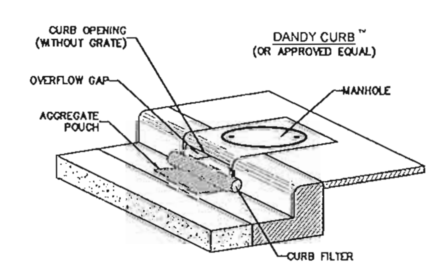






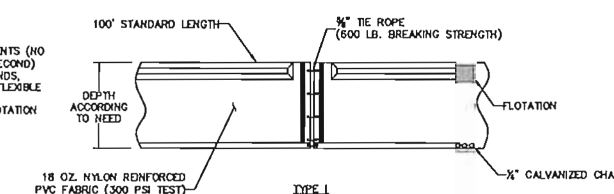
CONSTRUCTION EXIT
N.T.S



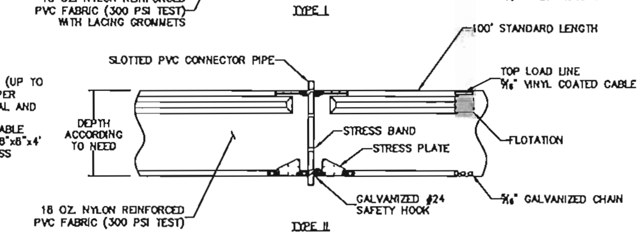


CURB INLET SEDIMENT CONTROL
N.T.S

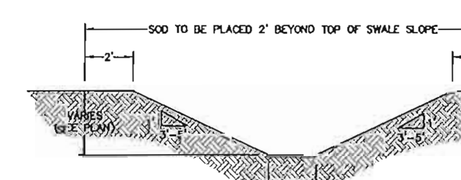
TYPE I DOT
FOR WATERS WITH LOW CURRENTS (NO MORE THAN ONE FOOT PER SECOND) AND LIGHT WINDS: LAKES, PONDS, SMALL STREAMS, MARSHES. FLEXIBLE TOP FLOTATION SECTION WITH ENCAPSULATED EPS FOAM FLOTATION LOGS (6"x6"x4')



TYPE II DOT
FOR HIGHER CURRENT WATERS (UP TO FIVE FEET PER SECOND): DEEPER LAKES, STREAMS, INTERCOASTAL AND TIDAL AREAS. INCLUDES AN ENCAPSULATED STEEL LOAD CABLE ALONG TOP OF BARRIER AND 8"x8"x4' FLOTATION LOGS. WEAR STRESS POINTS ARE REINFORCED WITH SHIELDS.



FLOATING TURBIDITY BARRIERS
N.T.S



TYPICAL SWALE SECTION
N.T.S

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
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SUNSHINE STATE ONE CALL OF FLORIDA, INC.

REVISIONS			
No.	REVISIONS	DATE	BY

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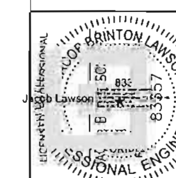

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

EROSION CONTROL DETAILS

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-003

Plotted By:Kandall, Jeff Sheet Set:147706000 – 70 Wave Layout:C-003 EROSION CONTROL DETAILS August 05, 2020 09:04:35am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-003 EROSION CONTROL DETAILS.dwg
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Plotted By:Lawson, Jacob Sheet Set:147706000 - 70 Wave Layout:C-100 SITE PLAN August 06, 2020 09:12:18am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-100 SITE PLAN.dwg
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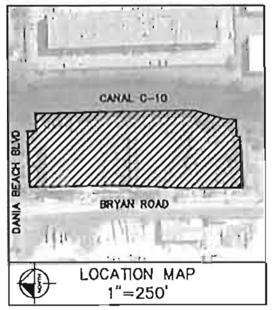


LOCATION MAP
1"=250'

VERTICAL DATUM
ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BENCHMARK USED: BROWARD COUNTY ENGINEERING DIVISION BENCHMARK NO. 2041, ELEVATION 12.83 (NGVD29) - 1.60' CONVERSION = 11.23 (NAVD88), OF BROWARD COUNTY, FLORIDA.

FLOOD ZONE
AH, WITH A BASE FLOOD ELEVATION: 5.0' (NAVD88)
X, WITH A BASE FLOOD ELEVATIONS: N/A
AE, WITH A BASE FLOOD ELEVATION: 4.0' (NAVD88)
COMMUNITY NO: 120034 PANEL NUMBER: 0567, SUFFIX H, AS LAST REVISED IN AUGUST 18, 2014.

AH, WITH A BASE FLOOD ELEVATION: 6.0' (NAVD88)
X, WITH A BASE FLOOD ELEVATIONS: N/A
COMMUNITY NO: 120034 PANEL NUMBER: 0567, SUFFIX J, AS PRELIMINARY DECEMBER 31, 2019.

LEGEND:
- PAVERS
- STANDARD DUTY CONCRETE
- HEAVY DUTY CONCRETE
- EXISTING CONCRETE
- HEAVY DUTY ASPHALT
- FUTURE RIGHT-OF-WAY DEDICATION

TOTAL BUILDING LEVEL BREAKDOWN:

LEVEL	TOTAL GROSS SQUARE FOOTAGE	# OF RESIDENTIAL UNITS
0100	51,602	N/A
0200	51,602	29
0300	78,609*	N/A
0400	78,609*	N/A
0500	35,538	11
0600	25,454	20
0700	35,538	32
0800	35,538	32
0900	35,538	32
1000	35,538	32
1100	35,538	32
1200	35,538	32
1300	35,538	32
1400	35,538	32
1500	35,538	32
1600	35,538	32
TOTAL	676,788	380

*INCLUDES 77,665 SF OF VEHICULAR USE AREA

GRAPHIC SCALE IN FEET
0 15 30 60

70 WAVE SITE DATA:

LOCATION: SECTION 33, TOWNSHIP 50 S, RANGE 42 E

ADDRESS: 50 S. BRYAN ROAD AND 70 S. BRYAN ROAD DANIA BEACH, FLORIDA 33004

ADJACENT ZONING: SEE PLAN
ZONING: PMUD-SL

LAND USE: RESIDENTIAL, COMMERCIAL, OFFICE, HOTEL, MARINA

SITE AREA:	146,862 SF	3.37 AC
RIGHT-OF-WAY DEDICATION:	14,395 SF	0.33 AC
NET SITE AREA:	132,467 SF	3.04 AC

INTENSITY: 380 RESIDENTIAL UNITS, 35,000 SF GENERAL COMMERCIAL, AND 8,000 SF OFFICE

FAR:	REQUIRED	PROPOSED
	4.75 (MAX)	4.52

EXISTING BUILDING: ±10,790 SF RETAIL AND ±12,921 WAREHOUSE (TO BE DEMOLISHED)

LOT COVERAGE	132,467 SF	3.04 AC	100%
BUILDING AREA	51,602 SF	1.19 AC	39.0%
IMPERVIOUS AREA	43,328 SF	0.99 AC	32.7%
PERVIOUS AREA	16,318 SF	0.37 AC	12.3%
CANAL AREA	20,184 SF	0.46 AC	15.2%
GROUND VEHICULAR USE AREA	1,035 SF	0.03 AC	00.8%
OPEN SPACE*	63,512 SF	1.48 AC	47.9%

*OPEN SPACE IS THE SUM ON IMPERVIOUS AREA AND CANAL AREA. SEE DDG FOR THE DEFINITION OF OPEN SPACE

PARKING	GROSS DEMAND	NET DEMAND (PER DDG)	PROVIDED
STANDARD	925	696**	699
ACCESSIBLE (2% OF PARKING REQ.)	19	2	8
BICYCLE	64	64***	132

**PARKING SPACES PROVIDED IN PARKING GARAGE. SEE ARCHITECTURAL PLANS FOR VARIOUS TYPES OF PARKING SPACES PROVIDED. THIS DEVELOPMENT UTILIZES A SHARED PARKING REDUCTION OF 0.75 OUTLINED IN DDG. THEREFORE PARKING REQUIRED IS REDUCED TO 696.
***REQUIRED BICYCLE SPACES ARE 5% OF THE GROSS DEMAND RESIDENTIAL PARKING SPACES PLUS 10% OF THE GROSS DEMAND COMMERCIAL PARKING SPACES OUTLINED IN DDG.

GROSS PARKING DEMAND CALCULATION:
RESIDENTIAL:
WORK/LIVE: 1 SPACE PER DWELLING UNIT = 1 SP X 29 DU = 29.0 SPACES
STUDIO: 1 SPACE PER DWELLING UNIT = 1 SP X 20 DU = 20.0 SPACES
1 BED 1 BATH: 1.25 SPACES PER DWELLING UNIT = 1.25 SP X 98 DU = 122.5 SPACES
2 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 186 DU = 325.5 SPACES
3 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 47 DU = 82.3 SPACES

COMMERCIAL:
RETAIL: 1 SPACE PER 300 SQUARE FEET = 1 SP/300 SF X 10,000 SF = 33.3 SPACES
RESTAURANT: 1 SPACE PER 60 SQUARE FEET OF CSA** = 1 SP/60 SF X 12,500 SF = 208.3 SPACES
OUTDOOR SEATING: 1 SPACE PER 60 SQUARE FEET OF CSA** = 1 SP/60 SF X 5,000 SF = 83.3 SPACES
OFFICE: 1 SPACE PER 400 SQUARE FEET = 1 SP/400 SF X 8,000 SF = 20.0 SPACES
TOTAL: 925 SPACES

SHARED PARKING SCHEDULE PER SEC. 265-60 AND 265-90

		12AM-6AM	9AM-6PM	6PM-12AM	9AM-6PM	6PM-12AM
	BASELINE PROVISION	5%	100%	5%	5%	5%
OFFICE	20.0	1	20	1	1	1
		5%	70%	70%	100%	70%
RETAIL	33.3	1.67	23.33	23.33	33.30	23.33
		10%	70%	100%	70%	100%
RESTAURANT	291.7	29.17	204.17	291.67	204.17	291.67
		100%	100%	100%	100%	100%
OTHER (1 SPACE/RESIDENTIAL UNIT)	380.0	380.0	380.0	380.0	380.0	380.0
		412	628	696	619	696
MINIMUM REQUIRED		696				
SHARED PARKING FACTOR	0.75					

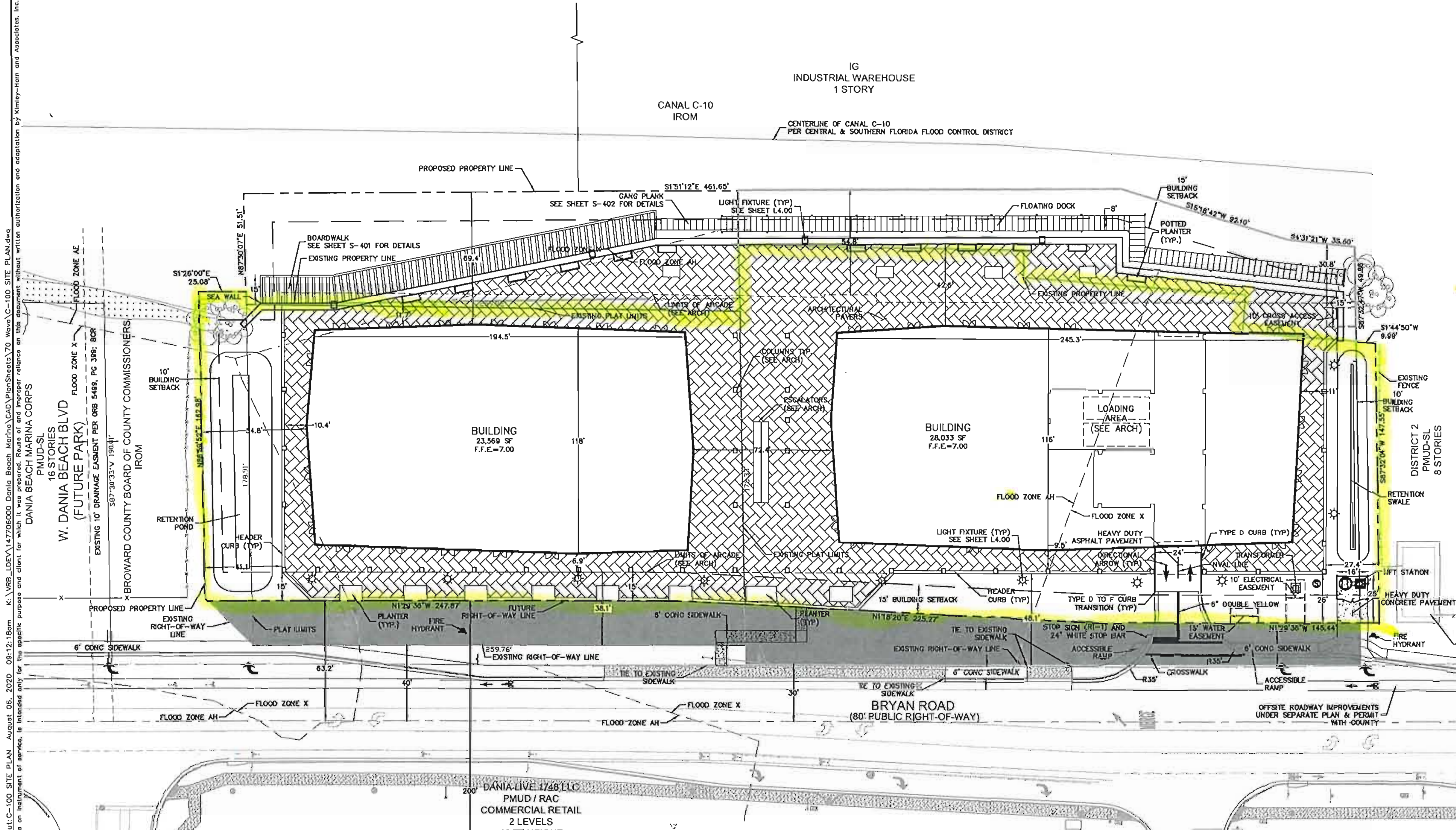
LOADING	REQUIRED	PROVIDED
	1	2****

****LOADING SPACES ARE PROVIDED IN PARKING GARAGE ON GROUND FLOOR. THE DIMENSION OF THE LOADING AREAS ARE 35' X12'.

BUILDING HEIGHT	REQUIRED	PROPOSED
	N.A	210'

BUILDING SETBACKS	REQUIRED	PROVIDED
BRYAN RD - FUTURE RIGHT-OF-WAY	15'	15.0'
INTERIOR	10'	15.0'
C-10 CANAL	0'	54.8'
DANIA BEACH BLVD	10'	41.1'

LANDSCAPE SETBACKS	REQUIRED	PROVIDED
BRYAN RD - FUTURE RIGHT-OF-WAY	8'	8'
INTERIOR	5'	5'
C-10 CANAL	N.A	N.A
DANIA BEACH BLVD	5'	5'



LEGAL DESCRIPTION - SOUTH BUILDING

PARCEL 1
THE SOUTH ONE-HALF OF THE SOUTHWEST ONE-QUARTER (SW ¼) OF THE NORTHWEST ONE-QUARTER (NW ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, LESS ALL OF THE PORTIONS LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:
COMMENCING AT THE NE CORNER OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 26 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE ¼ (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1,111.05 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1,674.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SAID SECTION; THENCE NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 150.0 FEET; THENCE SOUTH 89 DEGREES 17 MINUTES 30 SECONDS WEST, A DISTANCE 14.50 FEET; THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE S ½ OF THE SW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 118 FEET FROM THE LAST POINT OF DEFLECTION; THENCE NORTH 87 DEGREES 05 MINUTES 43 SECONDS WEST, A DISTANCE OF 20.0 FEET, THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 70 FEET; MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE SW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.
ALSO LESS THE WEST 30.0 FEET OF THE SOUTH HALF (S ½) OF THE SOUTHWEST QUARTER (SW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.
ALSO LESS ALL THAT PORTION OF THE SOUTH 10.0 FEET OF THE SOUTH HALF (S ½) OF THE SOUTHWEST QUARTER (SW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, LYING WEST OF CENTRAL & SOUTHERN FLORIDA FLOOD CONTROL DISTRICT CANAL C-10 RIGHT OF WAY.
AND
THE NORTH ONE-HALF (N ½) OF THE SOUTHWEST ONE-QUARTER (SW ¼) OF THE NORTHWEST ONE-QUARTER (NW ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, LESS ALL OF THAT PORTION LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:
COMMENCING AT THE NE CORNER OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 26 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE ¼ (CENTERLINE OF NW 2ND STREET), A DISTANCE OF 1,111.05 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1,674.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SW ¼ OF NW ¼ OF SE ¼ OF SE ¼ OF SAID SECTION; THENCE NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST, ALONG SAID NORTH LINE. A DISTANCE OF 35.02 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 150.0 FEET ; THENCE SOUTH 89 DEGREES 17 MINUTES 30 SECONDS WEST, A DISTANCE OF 14.50 FEET; THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE NORTH ½ OF SW ¼ OF SE ¼ OF SE ¼ OF SAID 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE NORTH ½ OF SW ¼ OF NW ¼ OF SE ¼ OF SE ¼ OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.
ALSO LESS THE WEST 30.0 FEET OF THE NORTH HAL (N ½) OF THE SOUTH WEST QUARTER (SW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

PARCEL 2
A PORTION OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT THE NE CORNER OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, THENCE SOUTH 87°26'41" WEST (BASIS OF BEARING), ALONG THE NORTH LINE OF SAID SOUTHEAST ¼ (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1,111.05 FEET; THENCE SOUTH 00°50'21" EAST, A DISTANCE OF 1,677.24 FEET, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SOUTHWEST ¼ OF THE NORTHWEST ¼ OF THE SOUTHEAST ¼ OF THE SOUTHEAST ¼ OF SAID SECTION; THENCE NORTH 87°23'42" EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 87°23'42" EAST, A DISTANCE OF 28.82 FEET; THENCE SOUTH 01°58'30" EAST, A DISTANCE OF 201.92 FEET; THENCE SOUTH 15°11'27" WEST, A DISTANCE OF 92.10 FEET; THENCE SOUTH 04°24'06" WEST, A DISTANCE OF 35.50 FEET; THENCE SOUTH 87°25'33" WEST, A DISTANCE OF 49.86 FEET TO A POINT ON THE EXISTING WESTERLY RIGHT OF WAY LINE OF CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT C-10 CANAL RIGHT OF WAY; THENCE NORTH 02°46'39" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 59.99 FEET; THENCE SOUTH 87°13'21" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 20.00 FEET; THENCE NORTH 02°46'39" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 118.00 FEET; THENCE NORTH 89°09'52" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 14.50 FEET; THENCE NORTH 00°50'08" WEST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 150.00 FEET TO THE POINT OF BEGINNING.

PARCEL A
PARCEL A OF CLARKE SUBDIVISION, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 101, PAGE 32 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; WHICH IS A PORTION OF THE NW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

PARCEL B
A PARCEL OF LAND BEING LOCATED IN THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, 42 RANGE EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCE AT THE SOUTHEAST (SE) CORNER OF SAID SECTION33; THENCE NORTH 01°17'45" WEST ALONG THE EAST LINE OF SAID SECTION 33 FOR A DISTANCE OF 1,340.78 FEET; THENCE SOUTH 87° 30'33" WEST FOR A DISTANCE OF 1,118.51 FEET TO THE NORTHEAST (NE) CORNER OF A PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 8775, PAGE 400 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; THENCE SOUTH 01°26'53" EAST ALONG THE EAST LINE OF SAID PARCEL FOR A DISTANCE OF 50.01 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG AFORESAID LINE FOR A DISTANCE OF 25.00 FEET TO THE SOUTHEAST (SE) CORNER OF SAID PARCEL, (SAID POINT ALSO BEING THE NORTHEAST CORNER OF PARCEL A OF CLARKE SUBDIVISION PLAT) FOR A DISTANCE OF 186.10 FEET TO THE NORTHWEST (NW) CORNER OF PARCEL A OF SAID PLAT; THENCE NORTH 42°30'48" EAST, A DISTANCE OF 35.36 FEET; THENCE NORTH 87°30'33" EAST ALONG A LINE 25 FEET NORTH OF AND PARALLEL WITH THE NORTH LINE OF SAID CLARKE SUBDIVISION A DISTANCE OF 161.55 FEET TO THE POINT OF BEGINNING.
SAID LANDS LYING AND SITUATED IN THE CITY OF DANIA, BROWARD COUNTY, FLORIDA.

NOTES:
1. SIGNAGE BY SEPARATE PERMIT
2. REFER TO DEVELOPMENT GUIDELINES AND PMUD-SL ORDINANCE AND MASTER DEVELOPMENT PLAN.
3. ALL VEHICULAR MARKINGS TO BE THERMOPLASTIC

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG
IT'S THE LAW! DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

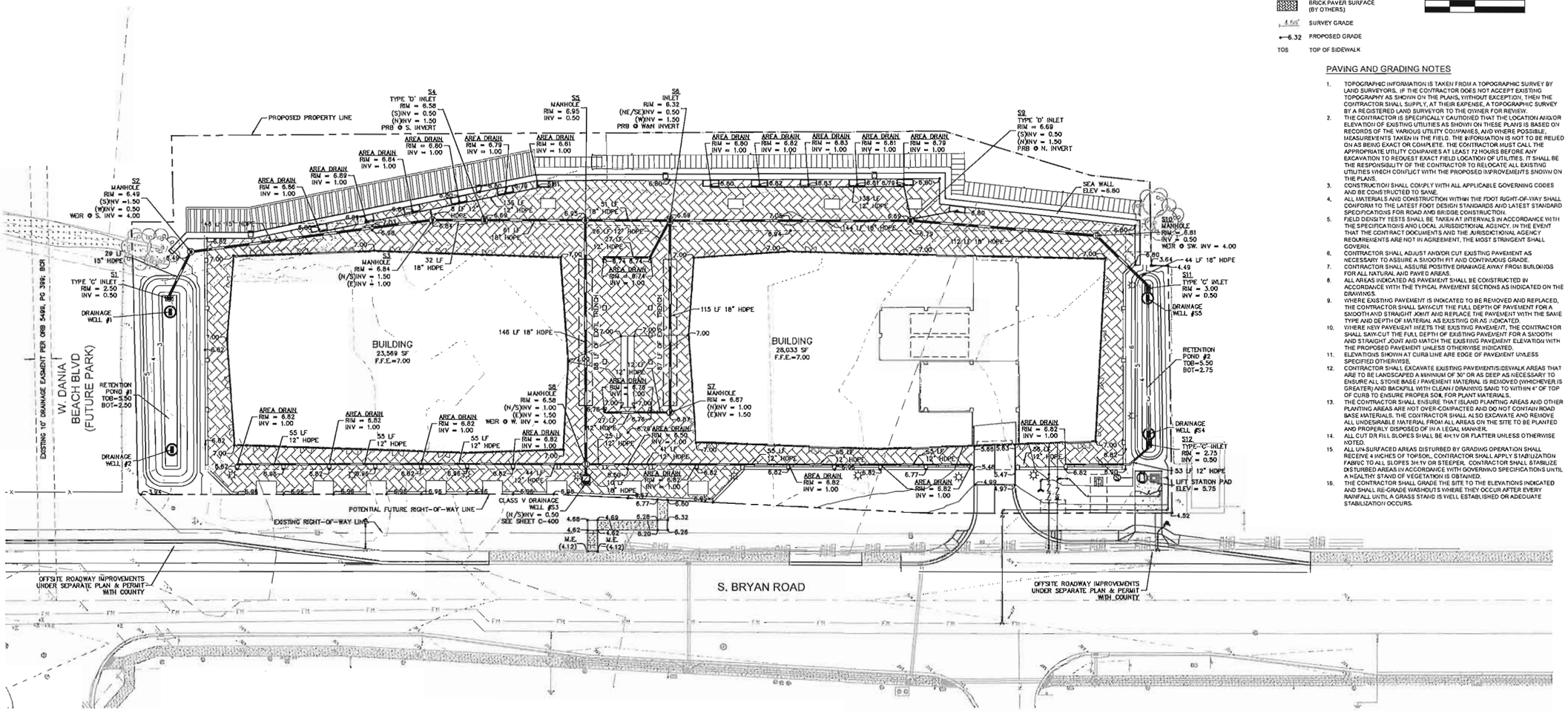
JACOB BRINTON LAWSON
No. 83357
STATE OF
PROFESSIONAL ENGINEER
LICENSED
Jacob Lawson
DATE:

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

SITE PLAN

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-100



PAVING LEGEND

- TYPE "F" CURB AND GUTTER
- HEAVY DUTY ASPHALT PAVEMENT
- STANDARD DUTY ASPHALT PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- STANDARD DUTY CONCRETE PAVEMENT (SIDEWALK)
- BRICK PAVER SURFACE (BY OTHERS)
- 4.5(5) SURVEY GRADE
- 6.32 PROPOSED GRADE
- TOS TOP OF SIDEWALK

NORTH

GRAPHIC SCALE IN FEET 0 15 30 60

PAVING AND GRADING NOTES

1. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
3. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
4. ALL MATERIALS AND CONSTRUCTION WITHIN THE FDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST FDOT DESIGN STANDARDS AND LATEST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE SPECIFICATIONS AND LOCAL JURISDICTIONAL AGENCY. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
6. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
7. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
8. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
9. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW-CUT THE FULL DEPTH OF PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
10. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW-CUT THE FULL DEPTH OF EXISTING PAVEMENT FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
11. ELEVATIONS SHOWN AT CURB LINE ARE EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
12. CONTRACTOR SHALL EXCAVATE EXISTING PAVEMENT/SIDEWALK AREAS THAT ARE TO BE LANDSCAPED A MINIMUM OF 30" OR AS DEEP AS NECESSARY TO ENSURE ALL STONE BASE / PAVEMENT MATERIAL IS REMOVED (WHICHEVER IS GREATER) AND BACKFILL WITH CLEAN / DRAINING SAND TO WITHIN 4" OF TOP OF CURB TO ENSURE PROPER SOIL FOR PLANT MATERIALS.
13. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT OVER-COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
14. ALL CUT OR FILL SLOPES SHALL BE 4H:1V OR FLATTER UNLESS OTHERWISE NOTED.
15. ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
16. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL RE-GRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL A GRASS STAND IS WELL ESTABLISHED OR ADEQUATE STABILIZATION OCCURS.

DRAINAGE NOTES

1. CONTRACTOR TO CONSTRUCT DRAINAGE STRUCTURES WITH USF GRATES, RIMS AND COVERS AS CALLED OUT OR APPROVED EQUAL. SHOP DRAWINGS ARE TO BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
2. CONTRACTOR TO REFER TO FDOT DESIGN STANDARD (AND NOT LIMITED TO) INDEX'S 425-001, 425-010, 425-020, 425-021, 425-024, 425-052, AND 425-053 FOR MANHOLE, INLET AND GRATE SPECIFICATIONS.
3. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED WITH (4) SIDED BEARING HEAVY DUTY H-20 RATED TRAFFIC RIMS AND GRATES.
4. CONTRACTOR TO VERIFY ALL EXISTING UTILITY RINGS AND COVERS ON SITE ARE HEAVY DUTY TRAFFIC RATED. CONTRACTOR TO REPLACE DEFICIENT RINGS AND COVERS WITH HEAVY DUTY TRAFFIC RATED RINGS AND COVERS. CONTRACTOR TO ADJUST RIM ELEVATIONS OF ANY UTILITIES THAT CHANGE IN ELEVATION DURING CONSTRUCTION.
5. ALL CLEAN-OUT COVERS SHOULD BE RATED FOR HEAVY DUTY TRAFFIC.
6. SIDEWALKS AND CROSSWALKS SHALL NOT EXCEED 2% CROSS SLOPE NOR 5% LONGITUDINALLY. GRADES IN ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. IN CASES OF SIDEWALK LANDINGS AT BUILDING ENTRANCES, GRADES SHALL NOT EXCEED 2% IN ANY DIRECTION. ACCESSIBLE CURB RAMPS SHALL NOT EXCEED 8' IN LENGTH AND 1:12 SLOPE. LANDINGS AT CHANGES IN DIRECTION SHALL BE MINIMUM 60"x60" AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
7. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
   - A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER.
   - B. FOR RCP DRAINAGE PIPE MAKE CONNECTION PER FDOT INDEX 280.CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL
   - C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
8. ALL DRAINAGE PIPE JOINTS SHALL BE FILTER FABRIC WRAPPED PER FDOT INDEX #280. ALL DRAINAGE PIPE JOINTS NEED TO BE FILTER FABRIC WRAPPED REGARDLESS OF MATERIAL.
9. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
10. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE.
11. EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
12. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
13. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
14. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
15. ALL CATCH BASINS WITHIN PROPOSED TRAFFIC AREAS SHALL HAVE BICYCLE PROOF GRATES.
16. CONTRACTOR TO FLUSH AND VACUUM ENTIRE ON-SITE STORM WATER SYSTEM UPON COMPLETION OF PROPOSED WORK.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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No.	REVISIONS	DATE	BY

Kimley»Horn

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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PH: 561-845-0665 FAX: 561-845-1062
WWW.KIMLEY-HORN.COM CA: 00000696

JACOB BRINTON LANGSTON LICENSE NO. 83357 STATE OF FLORIDA PROFESSIONAL ENGINEER

Jacob Langston

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

PAVING GRADING AND DRAINAGE PLAN

70 WAVE

PREPARED FOR
DANIA BEACH MARINE CORP.

CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-200

Plotted By:Kendall, Jeff Sheet Set:147706000 - 70 Wave Layout C-200 PAVING GRADING AND DRAINAGE PLAN August 06, 2020 09:05:04am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-200 PAVING GRADING AND DRAINAGE PLAN.dwg
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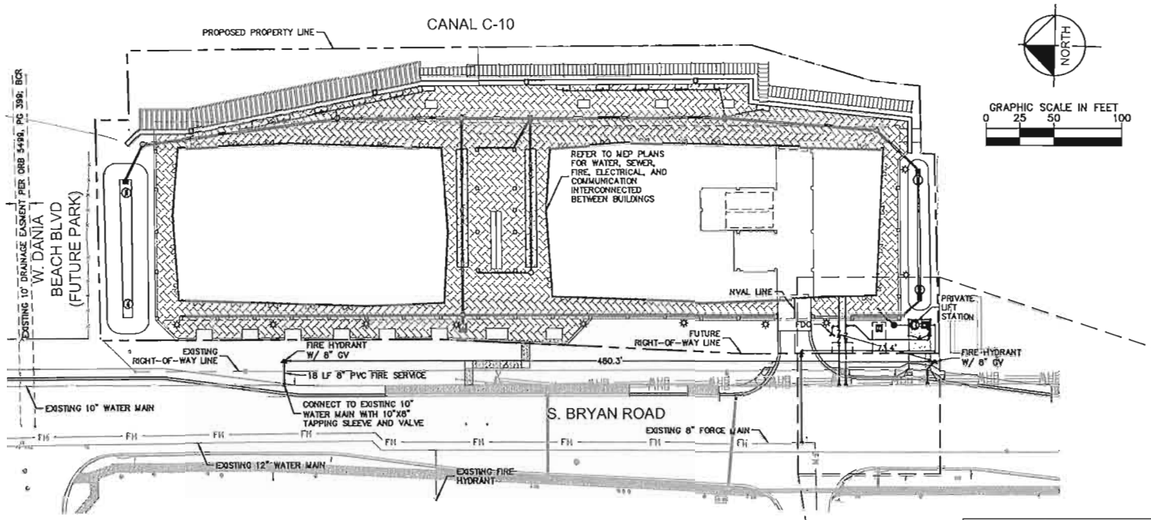

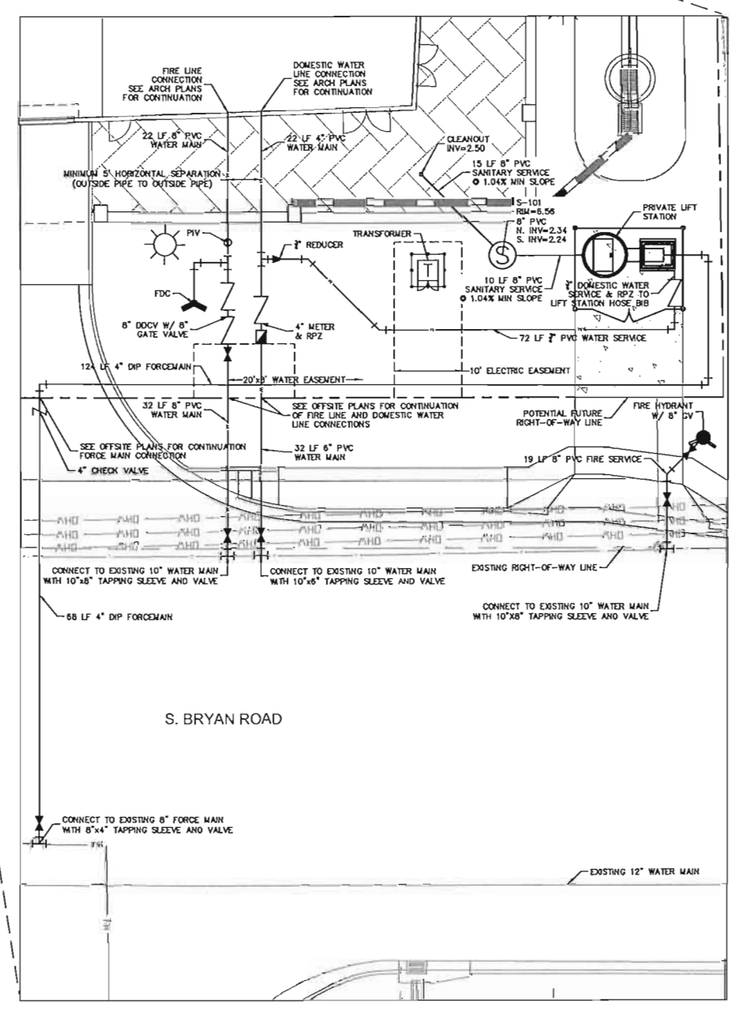

GRAPHIC SCALE IN FEET
0 25 50 100

GRAPHIC SCALE IN FEET
0 5 10 20

UTILITY NOTES

1. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
   - 8" PVC SDR35 PER ASTM D 3034, FOR PIPES LESS THAT 12' DEEP
   - 8" PVC SDR26 PER ASTM D 3034, FOR PIPES MORE THAN 12' DEEP
   - 6" PVC SCHEDULE 40
   - DUCTILE IRON PIPE PER AWWA C150
4. WATER LINES SHALL BE AS FOLLOWS:
   - 6" AND LARGER, PVC C-900 PER ASTM D 2241 CLASS 200 UNDER COUNTY ROADS, OTHERWISE CLASS 150
   - 6" AND LARGER DUCTILE IRON PIPE PER AWWA C150
   - SMALLER THAN 6" EITHER COPPER TUBE TYPE "L" (SOFT) PER ANSI B16.22 OR PVC, 200 P.S.I., PER ASTM D1784 AND D2241.
5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
6. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
7. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
8. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4'-0" COVER ON ALL WATERLINES.
9. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
10. UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
11. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS WITHIN PAVED AREAS, AND TO BE ONE FOOT ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS WITHIN LANDSCAPED AREAS.
12. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
13. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
14. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
15. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES (ANY CITY) WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
16. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
17. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
18. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
19. REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
20. UNDERGROUND UTILITY LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
21. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING WATER MAINS, FORCE MAINS, SANITARY SEWER AND STORM MAINS AND MAINTAIN MINIMUM CLEARANCES BETWEEN WATER MAINS AND OTHER UTILITIES AT ALL POINTS ALONG THEIR LENGTH AS REQUIRED IN THE PLANS, DETAILS AND SPECIFICATIONS.
23. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
24. THE ENTIRE FIRE SERVICE FROM BUILDING TO CONNECTION POINT IS TO BE INSTALLED BY A LICENSED UTILITY CONTRACTOR HOLDING A "CONTRACTOR V" LICENSE IN ACCORDANCE WITH CH. 489 OF THE FLORIDA STATUTES.
25. ALL UTILITY MAIN LENGTHS SHOWN ARE APPROXIMATE.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL ENGINEER JACOB BRINTON LAWSON STATE OF FLORIDA No. 81251

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

UTILITY PLAN

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-300

Plotted By:Kendall, Jeff Sheet Set:147706000 - 70 Wave Layout:C-300 UTILITY PLAN August 06, 2020 09:05:14am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\Plans\Sheets\70 Wave\C-300 UTILITY PLAN.dwg
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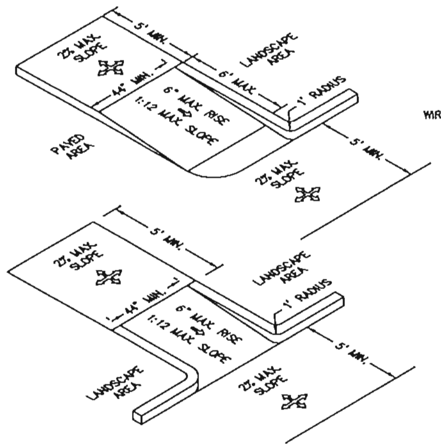
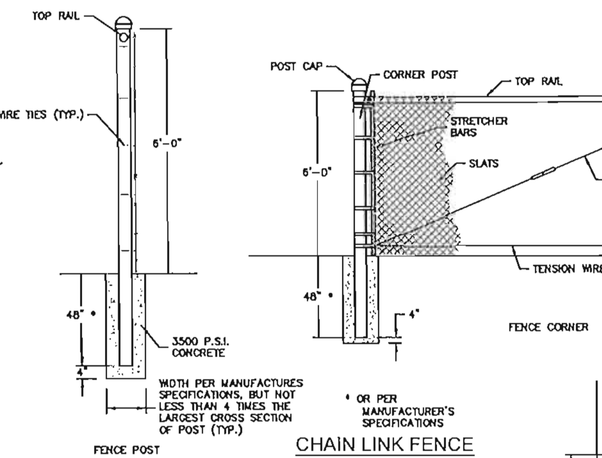


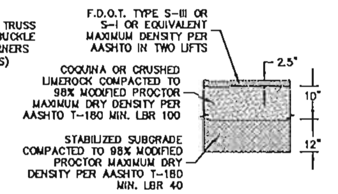
ON-SITE ACCESSIBLE RAMPS
N.T.S

NOTES:

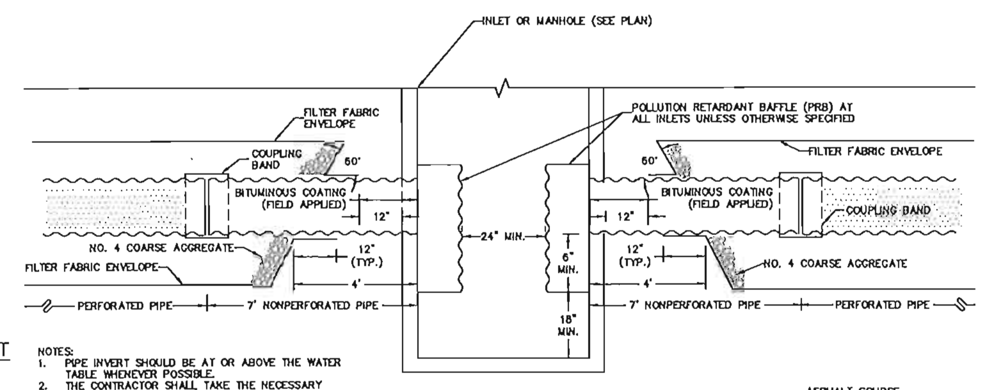
1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH CHAPTER 11 OF THE FLORIDA BUILDING CODE.
2. ACCESSIBLE ROUTE TO ACCESSIBLE SPACES, BUILDING ENTRANCES, AND PUBLIC STREETS SHALL NOT EXCEED 5% RUNNING SLOPE AND 2% CROSS SLOPE.
3. UNLESS OTHERWISE SHOWN ON THE PLANS, THE MINIMUM CLEAR ROUTE SHALL BE 36" WIDE WITH A 60" X 60" PASSING SPACE EVERY 200 FEET.
4. ACCESSIBLE ROUTES THROUGH PLANTERS SHALL BE LEVEL WITH THE SURROUNDING PAVEMENT OR PROVIDE CURB RAMPS AT EACH END WITH A MINIMUM 48" LEVEL LANDING IN BETWEEN.
5. THE ACCESSIBLE ROUTE IN FRONT OF PULL-IN PARKING SHALL BE A MINIMUM OF 44" WIDE AND NOT REDUCED BY VEHICLE OVERHANGS, CURBING, SIGN POSTS, OR OTHER OBSTRUCTIONS.
6. SPECIAL RAMP RULES APPLY FOR ANY RISE GREATER THAN 6" INCLUDING, BUT NOT LIMITED TO RESTRICTION ON SLOPE, TOTAL RISE BETWEEN LANDINGS AND USE OF HANDRAILS, PER F.B.C. 11-4.8.
7. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT-OF-WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET THE REQUIREMENTS OF F.D.O.T. INDEX 304.
8. CHANGE IN LEVEL ALONG ACCESSIBLE ROUTE IS NOT TO EXCEED ½" WITHOUT A RAMP PER SECTION 11-4.3.8.



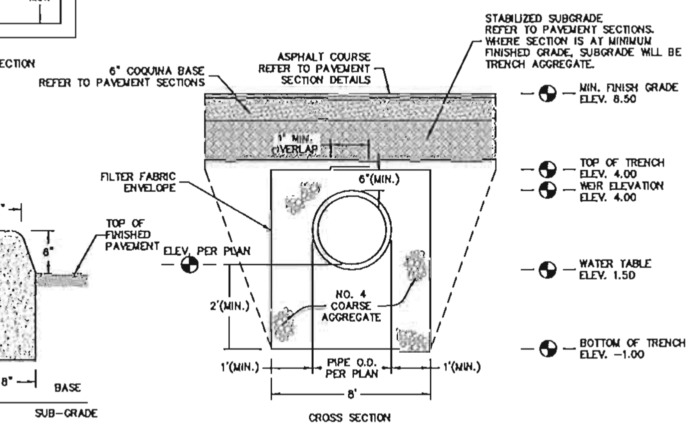
CHAIN LINK FENCE
N.T.S



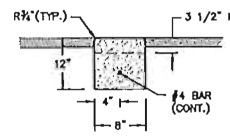
HEAVY DUTY ASPHALT
N.T.S



NOTES:
1. PIPE INVERT SHOULD BE AT OR ABOVE THE WATER TABLE WHENEVER POSSIBLE.
2. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE TRENCH WITH SAND, SILT AND FOREIGN MATERIALS.

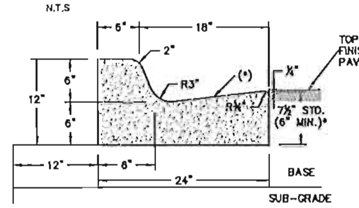


EXFILTRATION TRENCH
N.T.S



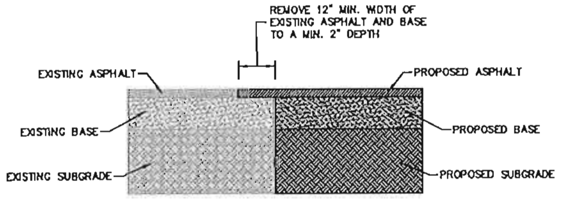
NOTE: #4 BAR MAY BE OMITTED IN ALL SECTIONS OF HEADER CURB THAT DOES NOT CROSS A VEHICULAR TRAVEL LANE

8" HEADER CURB
N.T.S

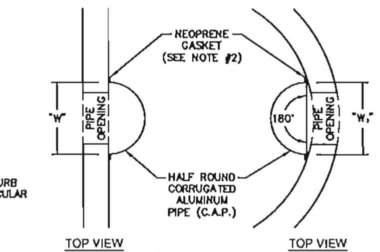


* WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON THE PLANS. ASPHALT SURFACE ON HIGH SIDE TO BE FLUSH WITH LIP OF CURB OR CURB & GUTTER.

TYPE "F" CURB AND GUTTER
N.T.S



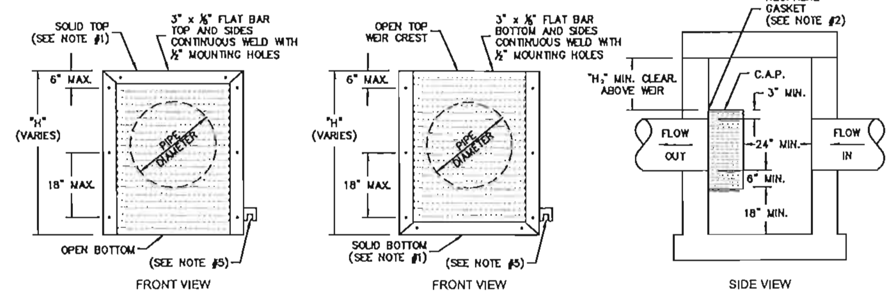
SAW-CUT
N.T.S



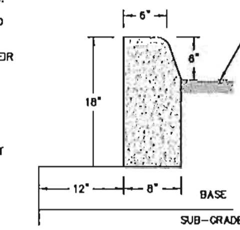
PIPE DIAM.	W (IN)	W₁ (IN)	T (GAUGE)
15"	24"	24"	16
18"	24"	24"	16
21"	30"	30"	16
24"	30"	36"	16
30"	36"	42"	14
36"	42"	48"	14
42"	48"	54"	14
48"	54"	60"	14
54"	60"	66"	14

"W" RECTANGULAR STRUCTURE
"W₁" ROUND STRUCTURE
"H₁" MINIMUM CLEARANCE ABOVE WEIR EQUAL TO 6"

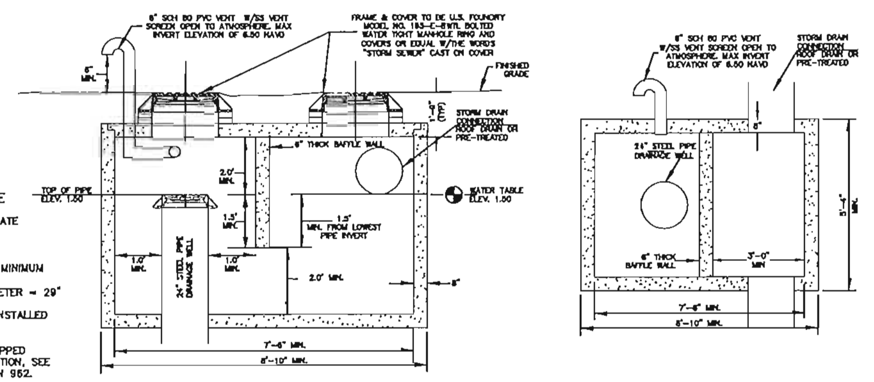
NOTES:
1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP FOR THE BAFFLE OR BOTTOM FOR WEIR.
2. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES OR BOTTOM OF WEIRS.
3. POLLUTION RETARDANT BAFFLE OR HALF PIPE WEIR TO BE FASTENED IN PLACE WITH ⅜" x 4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
4. FIBERGLASS BAFFLES AND WEIRS ARE NOT PERMITTED.
5. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.



POLLUTION RETARDANT BAFFLE (PRB) AND WEIR DETAILS
N.T.S



TYPE "D" CURB
N.T.S



24" STEEL WELL GRATE

HEAVY DUTY "BEE HIVE" GRATE

OPENINGS: 1-½" MAXIMUM

TOTAL OPENING: 1.7 SQ FT MINIMUM

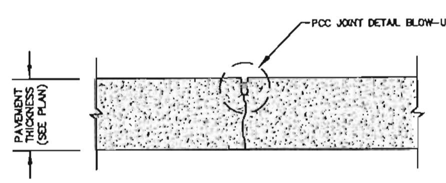
FOR 24" WELL, OUTER DIAMETER = 29"

STEEL WELL GRATE TO BE INSTALLED OVER 24" DEEP WELL.

STEEL GRATE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION, SEE FDOT SPECIFICATION SECTION 962.

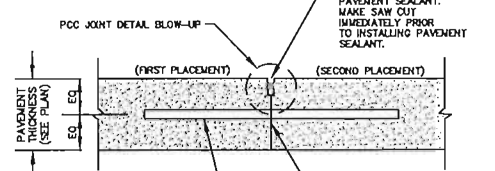
NOTE:
1. THE DRAINAGE WELLS SHALL BE INSTALLED TO A DEPTH SUFFICIENT TO ACHIEVE A DISCHARGE CAPACITY EQUAL TO OR GREATER THAN 300 GPM/FT OF HEAD.
2. THE DEPTH OF THE DRAINAGE WELLS WILL VARY. THE DRAINAGE WELL REASONABLE ASSURANCE REPORT PROVIDES A GUIDE FOR HOW THE MINIMUM WELL CASING DEPTH WILL VARY ACROSS THE SITE BASED UPON UNDERLYING GEOLOGICAL CONDITIONS.
3. ACTUAL SIZE OF THE CHAMBERS WILL BE DETERMINED BY THE SIZE OF THE PIPES.
4. STEEL WELL MESH GRATE SHALL BE SECURED IN A MANNER THAT IS TAMPER PROOF BUT REMOVABLE FOR WELL MAINTENANCE.
5. DRAINAGE WELLS TO BE INSTALLED FOLLOWING FDEP AND CITY APPROVAL.

CLASS V DRAINAGE WELL DETAIL
NTS

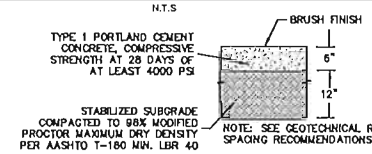


NOTE:
1. SEE PLAN FOR JOINT SPACING.

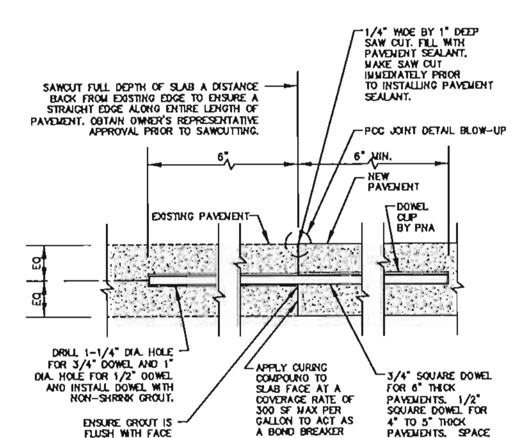
CONTRACTION JOINT



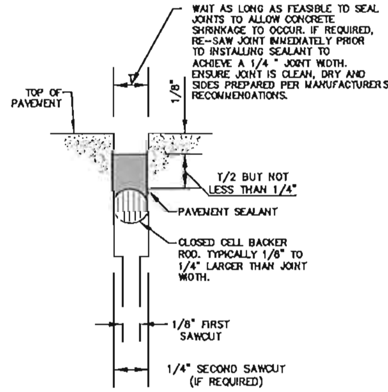
CONSTRUCTION JOINT



HEAVY DUTY CONCRETE
N.T.S



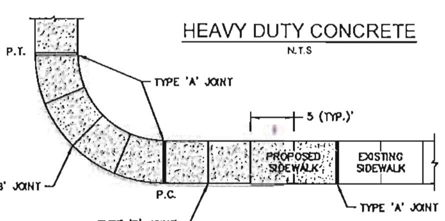
CONSTRUCTION JOINT TO EXISTING PAVEMENT



NOTES:
1. ENSURE JOINTS ARE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE JOINT SEALANT.
2. INSTALL CLOSED CELL BACKER ROD AFTER JOINTS HAVE BEEN CLEANED AND DRIED IN ACCORDANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.
3. INSTALL BACKER ROD AT CONSISTENT AND UNIFORM DEPTH.
4. JOINT SEALANT APPLICATION SHALL BE IN STRICT COMPLIANCE WITH SEALANT MANUFACTURER'S REQUIREMENTS.

PCC JOINT DETAIL BLOW-UP (TYP.)

CONCRETE JOINT DETAILS
N.T.S



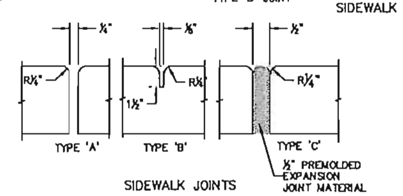


TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
'A'	100' MAX. SPACING, P.C./P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS.
'B'	5'-0" CENTER TO CENTER
'C'	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES.

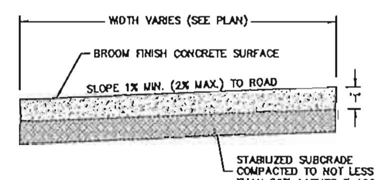
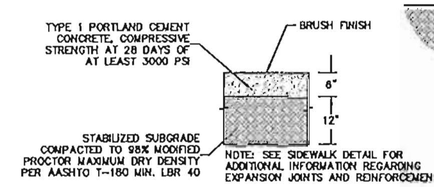


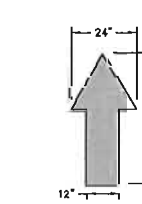
TABLE OF SIDEWALK THICKNESS	
LOCATION	'T'
PEDESTRIAN ONLY AREAS	6"
DRIVEWAYS AND OTHER TRAFFIC AREAS	7"

NOTE:
ALL SIDEWALK STREET CROSSINGS MUST MEET THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT (ADA) COMPLIANCE GUIDE. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.

CONCRETE SIDEWALK
N.T.S

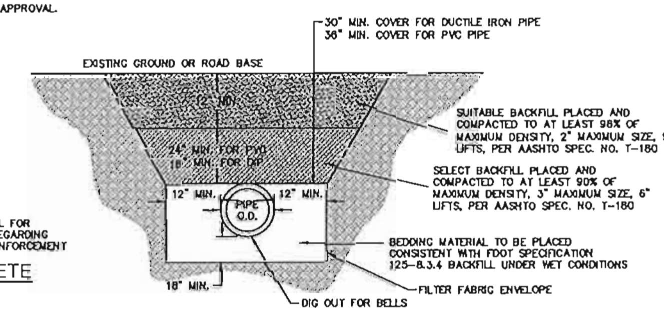


STANDARD DUTY CONCRETE
N.T.S



NOTE: ALL TRAFFIC FLOW ARROWS TO BE THERMOPLASTIC

ON-SITE TRAFFIC FLOW ARROW
N.T.S



NOTES:
1. BEDDING MATERIAL TO BE PLACED CONSISTENT WITH FDOT SPECIFICATION 125-8.3.4 BACKFILL UNDER WET CONDITIONS.
2. THE PIPE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGER ROCK, MUCK AND DEBRIS.
4. ALL WORK SHALL CONFORM TO STATE OF FLORIDA TRENCH SAFETY ACT.
5. ALL WORK SHALL CONFORM TO FDEP STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION 125-8.3.4 BACKFILL UNDER WET CONDITIONS.
6. ALL WORK SHALL CONFORM TO BROWARD COUNTY WATER & WASTEWATER ENGINEERING DIVISION MINIMUM INSTALLATION AND TESTING REQUIREMENTS. MINIMUM COVER FOR DUCTILE IRON PIPE IS 30 INCHES. THE MINIMUM COVER FOR PVC PIPE IS 36 INCHES.

BACKFILL UNDER WET CONDITIONS
N.T.S

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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JACOB BRINTON LAWSON, LICENSED PROFESSIONAL ENGINEER, STATE OF FLORIDA
Jacob Lawson

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

GENERAL DETAILS

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-400

Plotted By: Kendall, Jeff Sheet Set: 147706000 - 70 Wave Layout: C-400 GENERAL DETAILS August 06, 2020 09:05:25am K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-400 DETAILS.dwg
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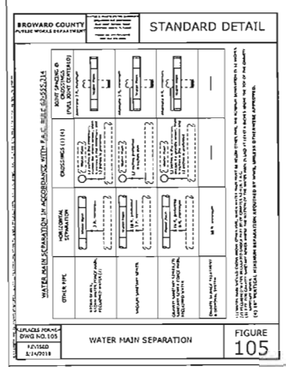
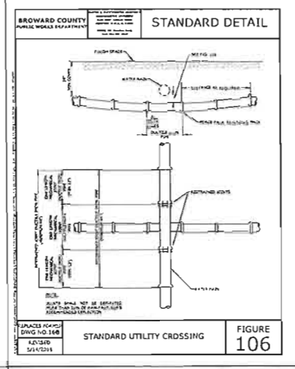
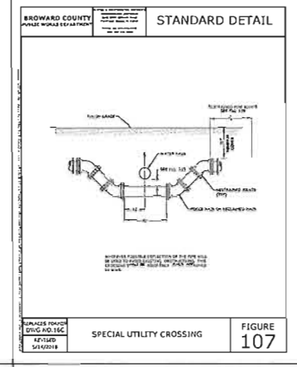
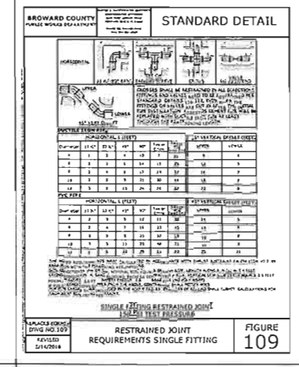
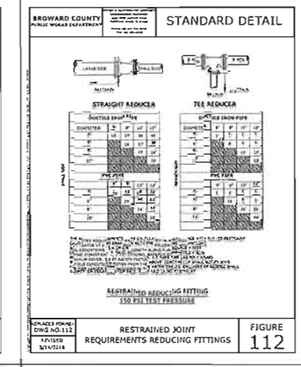
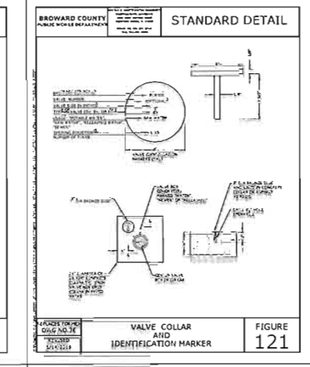


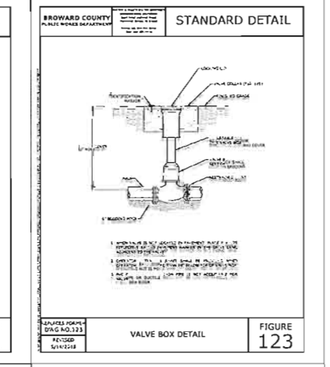


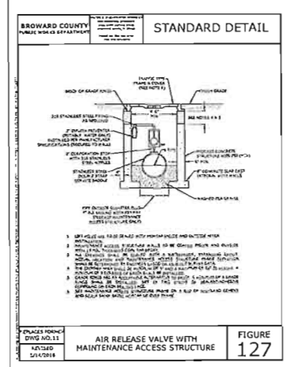


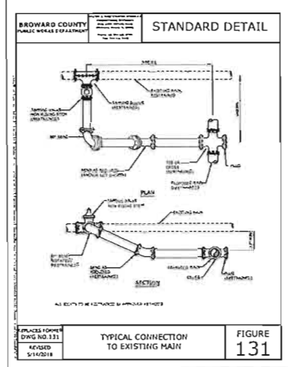


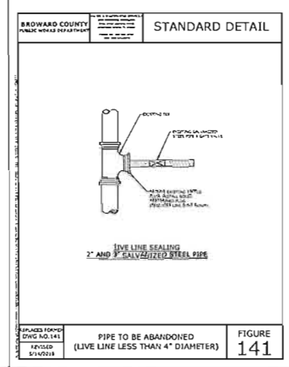


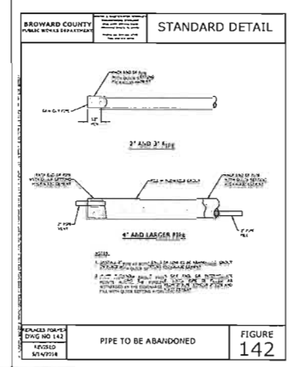


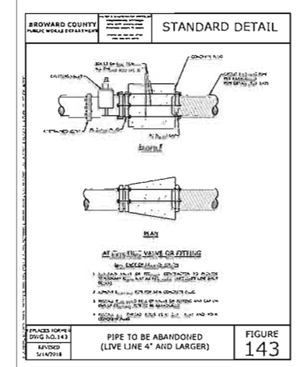


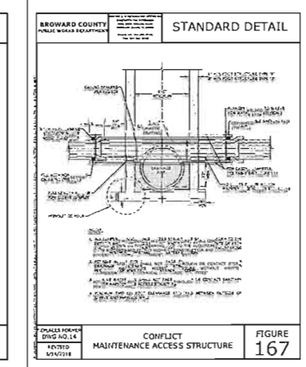


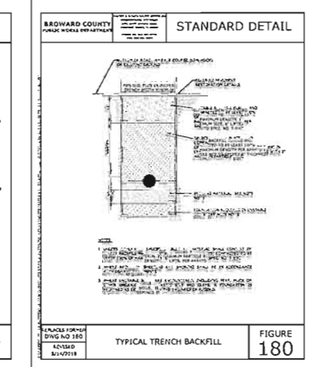


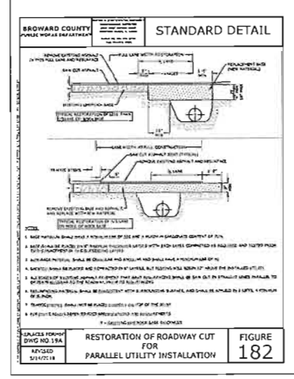


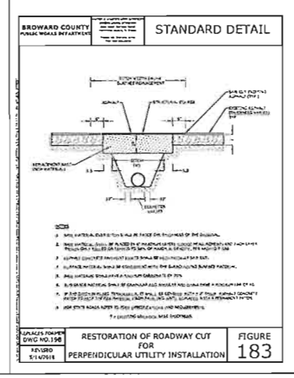


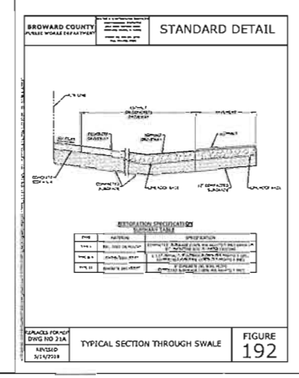


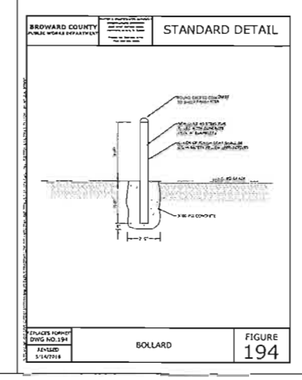


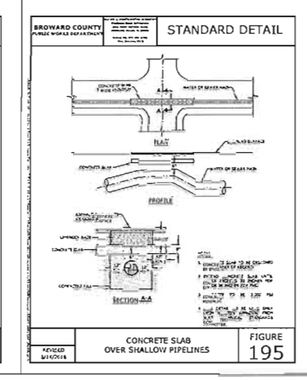


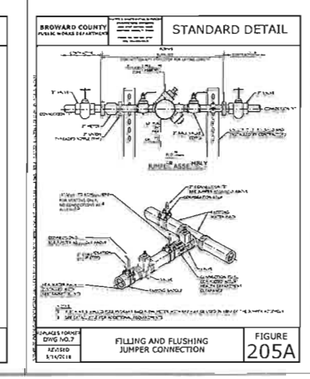


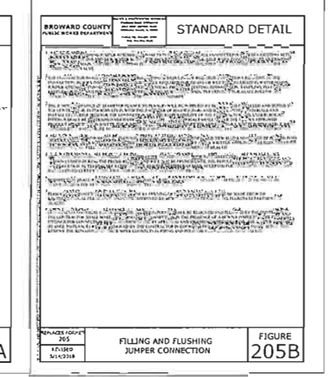












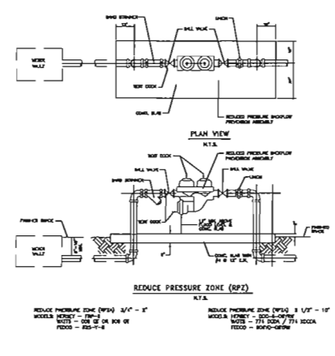
TESTING AND DISINFECTION

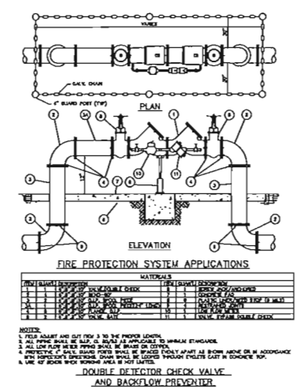
1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL THE PRESSURE AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED ON THE PROPOSED WATER MAINS AND THE SYSTEM IS ACCEPTABLE TO THE CITY OF HOLLYWOOD AND BROWARD COUNTY PUBLIC HEALTH UNIT (BCPHU).
2. THE PRESSURE TEST SHALL BE FOR 2 HOURS AT 150 PSI AND IN ACCORDANCE WITH ANSI/AWWA STANDARD C600-05 OR LATEST REVISION. PRESSURE TEST SHALL BE WITNESSED BY THE CITY OF HOLLYWOOD. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:

$$L = \frac{S\,D\,\sqrt{P}}{148{,}000}$$

L = THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
S = THE LENGTH OF PIPE BEING TESTED.
D = THE NOMINAL DIAMETER OF THE PIPE BEING TESTED.
P = THE AVERAGE TEST PRESSURE IN POUNDS PER SQUARE INCH.

3. THE COMPLETE LENGTH OF THE PROPOSED WATER MAIN SHALL BE TESTED, IN LENGTHS NOT TO EXCEED 1,200 FEET PER TEST.
4. PROPOSED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH ANSI/AWWA STANDARD C651-05 OR LATEST REVISION AND BACTERIOLOGICALLY TESTED FOR TWO CONSECUTIVE DAYS. THE





THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

CALL 48 HOURS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

811 Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

BRINTON, JACOB LAWSON, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NUMBER 75831

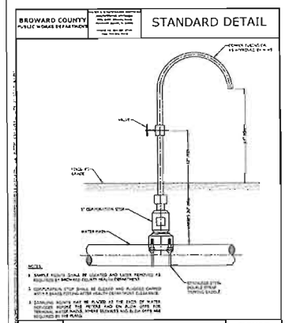
KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

UTILITY DETAILS

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

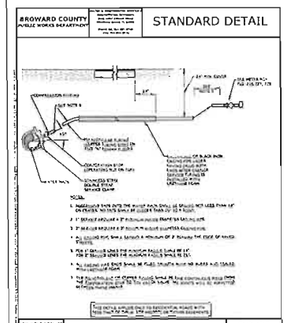
SHEET NUMBER
C-403

Plotted By:Kendall, Jeff Sheet Set:147706000 - 70 Wave Layout:C-403 UTILITY DETAILS August 06, 2020 09:05:36am K:\PRB_LOR\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-400 DETAILS.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



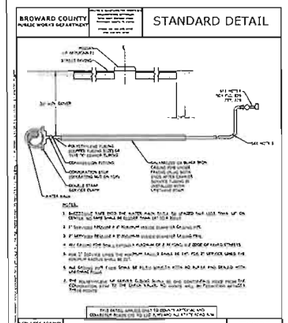
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

SAMPLING POINT — FIGURE 206



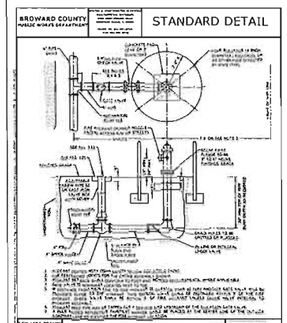
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

TYPE 1 WATER SERVICE CONNECTION — FIGURE 221



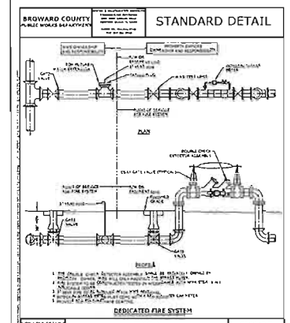
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

TYPE 2 WATER SERVICE CONNECTION — FIGURE 222



BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

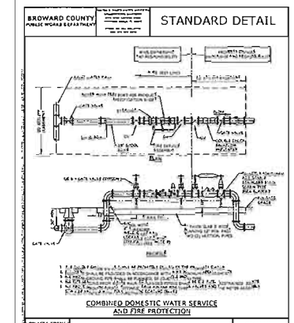
FIRE HYDRANT INSTALLATION — FIGURE 231



BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

DEDICATED FIRE SYSTEM

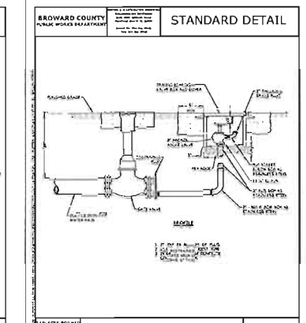
TYPE 1 PRIVATE FIRE PROTECTION 4", 6" AND 8" DIAMETER CONNECTION — FIGURE 235



BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

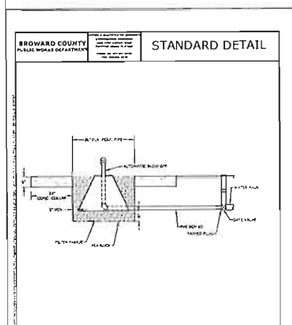
COMBINED DOMESTIC WATER SERVICE AND FIRE PROTECTION

TYPE 2 PRIVATE FIRE PROTECTION 4", 6" AND 8" DIAMETER CONNECTION — FIGURE 236



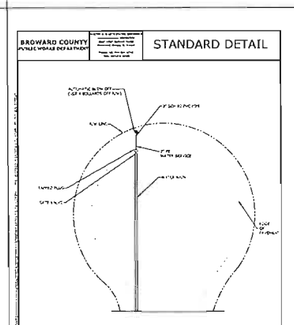
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

MANUAL BLOW OFF — FIGURE 252



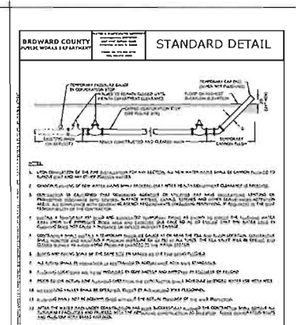
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

AUTOMATIC BLOW OFF PROFILE — FIGURE 253



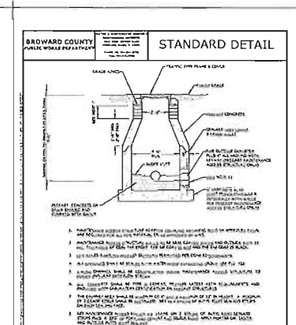
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

AUTOMATIC BLOW OFF PLAN — FIGURE 254



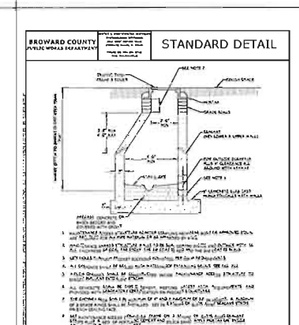
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

CANNON FLUSHING FOR NEWLY CONSTRUCTED WATER MAINS — FIGURE 255



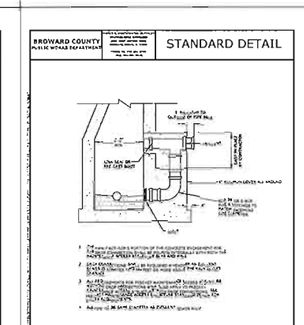
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

SHALLOW MAINTENANCE ACCESS STRUCTURE — FIGURE 311



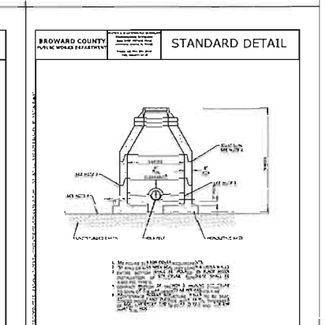
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

PRECAST MAINTENANCE ACCESS STRUCTURE — 312



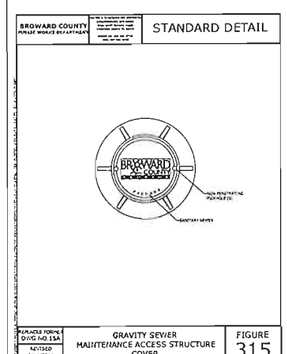
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

PRECAST MAINTENANCE ACCESS STRUCTURE DROP CONNECTION — FIGURE 313



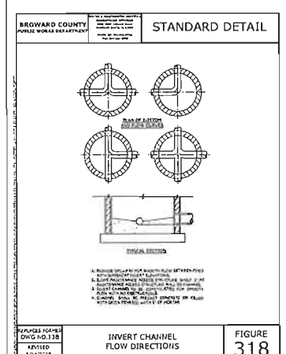
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

DOGHOUSE MAINTENANCE ACCESS STRUCTURE DETAIL — FIGURE 314



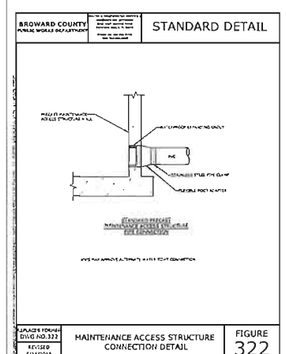
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

GRAVITY SEWER MAINTENANCE ACCESS STRUCTURE COVER — FIGURE 315



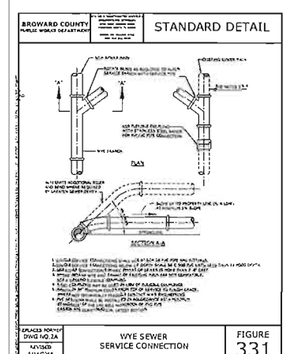
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

INVERT CHANNEL FLOW DIRECTIONS — FIGURE 318



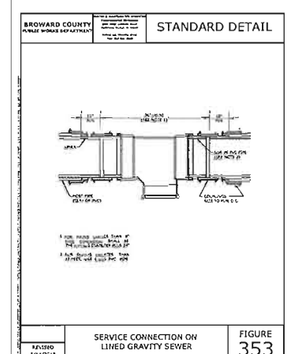
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

MAINTENANCE ACCESS STRUCTURE CONNECTION DETAIL — FIGURE 322



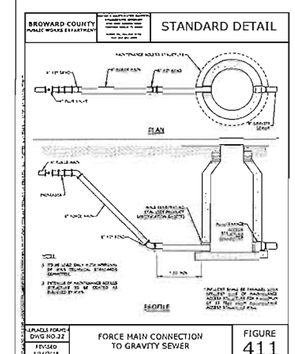
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

WYE SEWER SERVICE CONNECTION — FIGURE 331



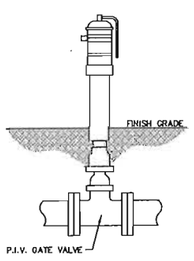
BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

SERVICE CONNECTION ON LINED GRAVITY SEWER — 353

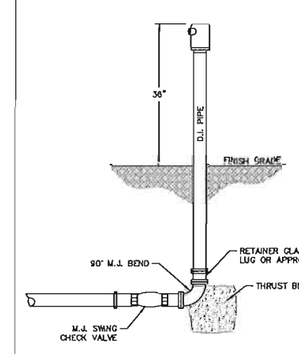


BROWARD COUNTY PUBLIC WORKS DEPARTMENT — STANDARD DETAIL

FORCE MAIN CONNECTION TO GRAVITY SEWER — FIGURE 411



POST INDICATOR VALVE (PIV)
N.T.S



FIRE DEPT. CONNECTION (FDC)
N.T.S

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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No.	REVISIONS	DATE	BY

Kimley»Horn

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JACOB BRINTON LAWSON — LICENSE NUMBER — STATE OF FLORIDA — PROFESSIONAL ENGINEER — DATE

KHA PROJECT 147706000
DATE 07/02/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

UTILITY DETAILS

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-404

Plotted By:Kendall Jeff Sheet Set:147706000 - 70 Wave Layout:C-404 UTILITY DETAILS August 06, 2020 09:05:41am K:\VRB_DEV\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-400 DETAILS.dwg
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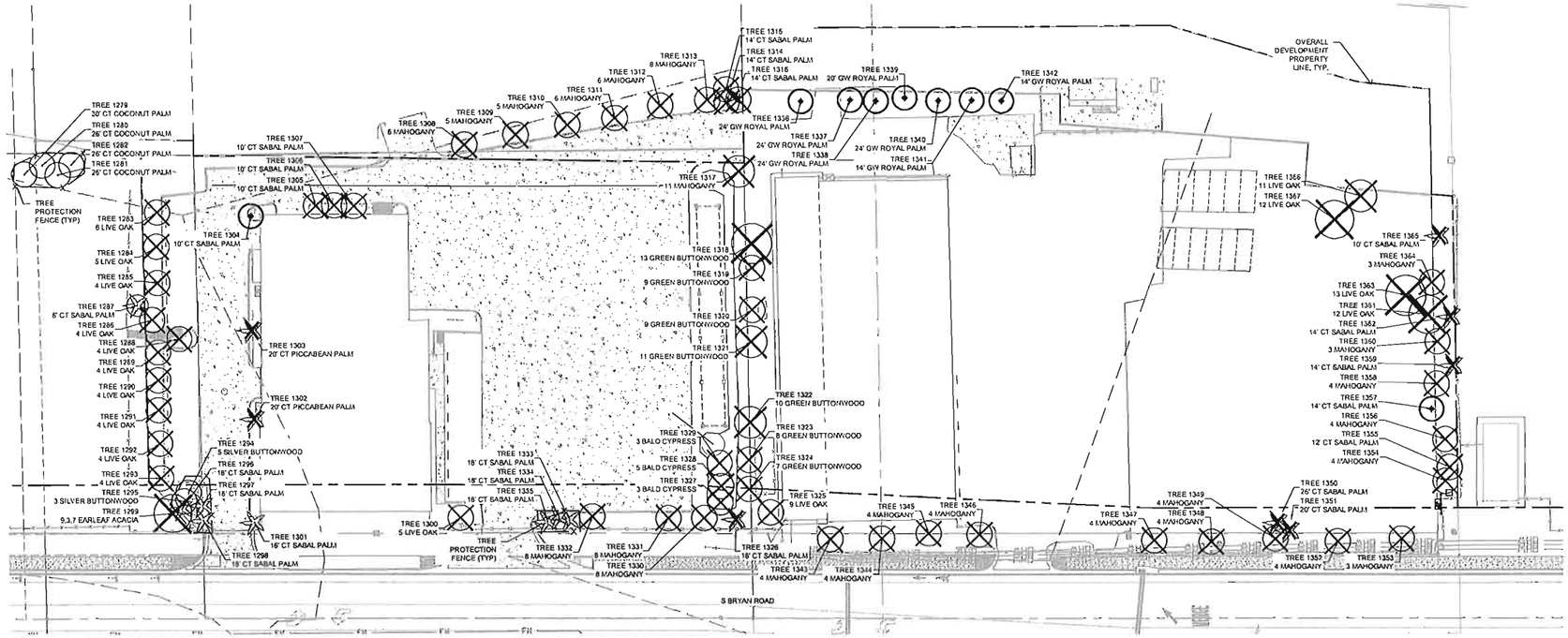

LEGEND:
- TREE TO REMAIN
- TREE TO REMOVE
- TREE TO BE RELOCATED
- PALM TO REMOVE
- PALM TO REMAIN

Tree #	Species	Size (DBH)	CTLA Condition Assessment	Notes	Specimen Status	Specimen Appraised Tree Value	Canopy SF	Action
1278	Coconut palm	16' CT (9" DBH)	Excellent				115	REMOVE
1279	Coconut palm	30' CT (9" DBH)	Excellent				115	REMOVE
1280	Coconut palm	26' CT (9" DBH)	Excellent				115	REMAIN
1281	Coconut palm	26' CT (9" DBH)	Excellent				115	REMAIN
1282	Coconut palm	26' CT (9" DBH)	Excellent				115	REMAIN
1283	Live oak	6	Good				115	REMOVE
1284	Live oak	5	Fair				115	REMOVE
1285	Live oak	4	Good				110	REMOVE
1286	Live oak	4	Good				110	REMOVE
1287	Sabal palm	6' CT (13" DBH)	Excellent		X	$455.63	115	REMAIN
1288	Live oak	4	Good				100	REMOVE
1289	Live oak	4	Good				100	REMOVE
1290	Live oak	4	Good				115	REMOVE
1291	Live oak	4	Good				115	REMOVE
1292	Live oak	4	Good				115	REMOVE
1293	Live oak	4	Good				115	REMOVE
1294	Silver buttonwood	5	Fair				100	REMAIN
1295	Silver buttonwood	3	Fair				100	REMAIN
1296	Sabal palm	18' CT (10" DBH)	Excellent				50	REMAIN
1297	Sabal palm	18' CT (10" DBH)	Excellent				50	REMAIN
1298	Sabal palm	18' CT (10" DBH)	Excellent				50	REMAIN
1299	Earleaf acacia	9,3,7	Good	Invasive			250	REMOVE
1300	Live oak	5	Excellent				105	REMOVE
1301	Sabal palm	16' CT (10" DBH)	Excellent				50	REMAIN
1302	Alexander palm	20' CT (6" DBH)	Excellent				50	REMOVE
1303	Alexander palm	20' CT (6" DBH)	Excellent				50	REMOVE
1304	Sabal palm	10' CT (14" DBH)	Excellent		X	$455.63	100	RELOCATE
1305	Sabal palm	10' CT (10" DBH)	Excellent				100	REMOVE
1306	Sabal palm	10' CT (10" DBH)	Excellent				100	REMOVE
1307	Sabal palm	10' CT (10" DBH)	Excellent				100	REMOVE
1308	Mahogany	6	Excellent				100	REMOVE
1309	Mahogany	5	Excellent				110	REMOVE
1310	Mahogany	5	Good				105	REMOVE
1311	Mahogany	6	Good				100	REMOVE
1312	Mahogany	6	Good				105	REMOVE
1313	Mahogany	8	Good				105	REMOVE
1314	Sabal palm	14' CT (11" DBH)	Excellent				100	REMOVE
1315	Sabal palm	14' CT (9" DBH)	Excellent				100	REMOVE
1316	Sabal palm	14' CT (10" DBH)	Excellent				100	REMOVE
1317	Mahogany	11	Fair				150	REMOVE
1318	Green buttonwood	13	Good				250	REMOVE
1319	Green buttonwood	9	Good				105	REMOVE
1320	Green buttonwood	9	Good				105	REMOVE
1321	Green buttonwood	11	Fair				175	REMOVE
1322	Green buttonwood	10	Fair				150	REMOVE
1323	Green buttonwood	8	Fair				105	REMOVE
1324	Green buttonwood	7	Fair				105	REMOVE
1325	Live oak	9	Good				105	REMOVE
1326	Sabal palm	16' CT (10" DBH)	Excellent				50	REMOVE
1327	Bald cypress	3	Good				100	REMOVE
1328	Bald cypress	5	Excellent				105	REMOVE
1329	Bald cypress	3	Excellent				105	REMOVE
1330	Mahogany	8	Good				105	REMOVE
1331	Mahogany	8	Good				105	REMOVE
1332	Mahogany	8	Good				100	REMOVE
1333	Sabal palm	18' CT (10" DBH)	Excellent				50	REMAIN
1334	Sabal palm	18' CT (10" DBH)	Excellent				50	REMAIN
1335	Sabal palm	18' CT (10" DBH)	Excellent				50	REMAIN
1336	Royal palm	24' GW (11" DBH)	Excellent				100	REMOVE
1337	Royal palm	24' GW (11" DBH)	Excellent				100	REMOVE
1338	Royal palm	24' GW (11" DBH)	Excellent				100	REMOVE
1339	Royal palm	20' GW (11" DBH)	Excellent				100	REMOVE
1340	Royal palm	24' GW (11" DBH)	Excellent				100	REMOVE
1341	Royal palm	14' GW (11" DBH)	Excellent				100	REMOVE
1342	Royal palm	14' GW (11" DBH)	Good				100	REMOVE
1343	Mahogany	4	Good				105	REMOVE
1344	Mahogany	4	Excellent				105	REMOVE
1345	Mahogany	4	Excellent				105	REMOVE
1346	Mahogany	4	Fair				105	REMOVE
1347	Mahogany	4	Excellent				105	REMOVE
1348	Mahogany	4	Excellent				105	REMOVE
1349	Mahogany	4	Good				110	REMOVE
1350	Sabal palm	26' CT (11" DBH)	Excellent				50	REMOVE
1351	Sabal palm	20' CT (11" DBH)	Excellent				50	REMOVE
1352	Mahogany	4	Good				105	REMOVE
1353	Mahogany	3	Fair				105	REMOVE
1354	Mahogany	4	Excellent				100	REMOVE
1355	Sabal palm	12' CT (12" DBH)	Good		X	$455.63	100	REMOVE
1356	Mahogany	4	Excellent				100	REMOVE
1357	Sabal palm	14' CT (14" DBH)	Excellent		X	$911.25	105	RELOCATE
1358	Mahogany	4	Good				105	REMOVE
1359	Sabal palm	14' CT (14" DBH)	Excellent		X	$911.25	100	REMOVE
1360	Mahogany	3	Good				105	REMOVE
1361	Live oak	12	Fair				250	REMOVE
1362	Sabal palm	14' CT (13" DBH)	Excellent		X	$911.25	50	REMOVE
1363	Live oak	13	Fair				250	REMOVE
1364	Mahogany	3	Excellent				100	REMOVE
1365	Sabal palm	10' CT (12" DBH)	Excellent		X	$455.63	100	REMOVE
1366	Live oak	11	Fair				180	REMOVE
1367	Live oak	12	Fair					REMOVE

Total Trees Removed:	74
Total Canopy SF Removed (Canopy Trees)	4855
Total Native Specimen Trees Removed:	4
Specimen Apraisal Value to be Paid:	$ 1,586.27
Replacement Trees Required (1 per 300 SF)	16
Tree Required with addition 50% coverage	24
Proposed Trees	4
Tree Trust Fund Payment (20 deficecnt trees @ $1,500 each)	$ 30,000.00

* REPLACEMENT TREES BASED ON CATEGORY 1B TREE
** TREE TRUST FUND PAYMENT BASED ON COST OF STOCK CATEGORY 1B TREE MULTIPLIED BY 2.7

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

No.	REVISIONS	DATE	BY

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Digitally signed by Weston M Rogers
Dn: CN=Weston M Rogers, O=KIMLEY-HORN AND ASSOCIATES, C=US
Date: 2020.08.04 18:57:39-04'00'

REGISTERED LANDSCAPE ARCHITECT WESTON MICHAEL ROGERS LA6667442 STATE OF FLORIDA

DATE: 8/4/2020

KHA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY BLN
DRAWN BY BLN
CHECKED BY MTF

TREE MITIGATION PLAN - 70 WAVE

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L0.50

Plotted By:Hall, Zack Sheet Set:Dania Beach Marina Layout:L0.51 August 04, 2020 05:59:28pm K:\ORL_LA\VERO BEACH\147706000 - Dania Marina\CAD\CONST\PlanSheets\L0.50 TREE MITIGATION PLAN.dwg
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Plotted By: Hall, Zack Sheet Set: Dania Beach Marina Layout: L0.52 August 04, 2020 05:59:34pm K:\ORL_LA\VERO BEACH\147706000 — Dania Marina\CAD\CONST\PlanSheets\L0.50 TREE MITIGATION PLAN.dwg
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TREE MITIGATION SPECIFICATIONS

A. GENERAL

1. CONTRACTOR SHALL ADHERE TO ALL TREE PROTECTION REQUIREMENTS LISTED IN THESE SPECIFICATIONS AND/OR THOSE LISTED IN THE CITY OR COUNTY ZONING CODE, TREE PROTECTION (LATEST EDITION), WHICHEVER IS MORE STRINGENT SHALL APPLY.
2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PROCEDURES WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
3. ANY AREAS SUBJECT TO EROSION MUST BE ADEQUATELY STABILIZED WITH VEGETATION MATERIAL THAT WILL, WITHIN A REASONABLE TIME FRAME, DETER SOIL DISTURBANCE.
4. NO SIGNS, BUILDING PERMITS, WIRES OR OTHER ATTACHMENTS OF ANY KIND SHALL BE ATTACHED TO ANY TREE OR PALM. GUY WIRES DESIGNED TO PROTECT TREES ARE EXCLUDED FROM THIS PROHIBITION.
5. EXISTING TREE LOCATIONS AND SIZES ARE ESTIMATES AND ARE BASED ON A SURVEY PROVIDED BY THE OWNER SELECTED SURVEYOR.
6. CONTRACTOR SHALL COORDINATE TREE REMOVAL WITH PERMITTING AGENCY AND PROJECT ARBORIST PRIOR TO CONSTRUCTION. NO PERSON MAY REMOVE OR CAUSE TO BE REMOVED ANY PROTECTED TREE OR PALM WITHOUT FIRST HAVING PROCURED A PERMIT AS PROVIDED BY THE APPROPRIATE PERMITTING AGENCY.
7. FOR PROTECTED TREES OR PALMS BEING REMOVED, THE CONTRACTOR MUST GIVE THE PERMITTING AGENCY REASONABLE OPPORTUNITY TO RELOCATE TREES DESIGNATED FOR REMOVAL TO ANOTHER SITE AT THE PERMITTING AGENCY'S EXPENSE.
8. CONTRACTOR IS RESPONSIBLE FOR POSSESSING ALL REQUIRED APPLICATOR LICENSES, BUSINESS REGISTRATIONS AND INSURANCE, PESTICIDE LABELS, AND MATERIAL DATA SAFETY SHEETS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR HAVING ALL SPILL CONTAINMENT MATERIALS AND REQUIRED PERSONAL PROTECTIVE EQUIPMENT FOR PESTICIDE APPLICATIONS AND ACCIDENTAL SPILLS ON SITE AT ALL TIMES. THE OWNER RESERVES THE RIGHT TO INSPECT EACH APPLICATOR AND HAVE THESE MATERIALS PRESENTED BEFORE AND DURING ANY PESTICIDE TREATMENT.
9. WHERE TRAFFIC AREAS ARE PROPOSED WITHIN THE DRIP LINE OF PROTECTED TREES AND LESS THAN FOUR (4) INCHES OF GRADE CHANGE ARE PROPOSED, PERMEABLE SURFACES THAT ALLOW AIR AND WATER INTO THE SOIL SHOULD BE USED IN LIEU OF ASPHALT OR OTHER SUCH IMPERVIOUS SURFACES.
10. TREE WELLS OF AN APPROVED DESIGN SHALL BE CONSTRUCTED AROUND ALL TREES TO BE PRESERVED WHEN MORE THAN FOUR INCHES OF FILL IS TO BE DEPOSITED WITHIN THE DRIP LINE AREA OF THOSE TREES. COORDINATE WITH PROJECT ARBORIST.
11. THE SEQUENCE OF TREE MITIGATION AND PRESERVATION MEASURES IS IMPERATIVE TO THE HEALTH AND SURVIVABILITY OF THE SUBJECT TREES AND SHALL BE COORDINATED WITH THE OWNER SELECTED PROJECT ARBORIST. THE DESIRED SEQUENCE IS OUTLINED BELOW:
   a. TREE PROTECTION FENCING.
   b. ROOT PRUNING AND ROOT BARRIERS.
   c. CLEARING.
   d. TREE CANOPY PRUNING.
   e. FERTILIZATION.
   f. INSECTICIDE.
   g. IRRIGATION.

B. TREE PROTECTION FENCING

1. PRIOR TO THE ERECTION OF ANY TREE PROTECTION FENCING, ALL FOREIGN SURFACE MATERIAL, TRASH OR DEBRIS SHALL BE REMOVED FROM THE AREA TO BE ENCLOSED BY THE FENCING. AFTER ERECTION OF THE FENCING NO SUCH MATERIAL OR LITTER SHALL BE PERMITTED TO REMAIN WITHIN THE PROTECTED AREA.
2. TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL PROTECTED TREES TO CREATE A PROTECTIVE ROOT ZONE AND SHALL REMAIN IN PLACE UNTIL SITE CLEARING, LAND ALTERATION, AND CONSTRUCTION ACTIVITIES ARE COMPLETE.
3. NATIVE GROUND COVER AND UNDERSTORY VEGETATION EXISTING WITHIN THE PROTECTED AREA SHALL REMAIN THROUGHOUT CONSTRUCTION. OTHER DESIGNATED VEGETATION AND INVASIVE PLANT SPECIES SHALL BE REMOVED ONLY BY MANUAL LABOR UTILIZING HAND TOOLS, OR BY OTHER METHODS APPROVED BY THE PROJECT ARBORIST.
4. TREE PROTECTION FENCING TYPES AND LOCATIONS SHALL BE ERECTED AS SHOWN ON THE TREE MITIGATION PLANS AND DETAILS, OR AS REQUESTED BY LOCAL AGENCY.
5. FINAL LOCATIONS SHALL BE COORDINATED WITH AND APPROVED BY THE PROJECT ARBORIST.
6. NO MATERIALS, EQUIPMENT, SPOIL, WASTE OR WASHOUT WATER MAY BE DEPOSITED, STORED, OR PARKED WITHIN 20 FEET OF THE TREE PROTECTION ZONE.
7. EROSION CONTROL DEVICES SUCH AS SILT FENCING, DEBRIS BASINS, AND WATER DIVERSION STRUCTURES SHALL BE INSTALLED TO PREVENT SILTATION AND/OR EROSION WITHIN THE TREE PROTECTION ZONE.
8. CONSTRUCTION ACTIVITY SHALL NOT DESTROY OR IRREVERSIBLY HARM THE ROOT SYSTEM OF PROTECTED TREES. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.
9. DO NOT INSTALL CONDUIT, DRAIN OR IRRIGATION LINES, OR ANY UTILITY LINE WITHIN THE TREE PROTECTION ZONE WITHOUT THE APPROVAL OF THE PROJECT ARBORIST. IF LINES MUST TRAVERSE THE PROTECTION AREA, THEY SHALL BE TUNNELED OR BORED UNDER THE TREE.
10. CONTRACTORS ACCESS TO FENCED TREE PROTECTION AREAS WILL BE PERMITTED ONLY WITH APPROVAL OF THE PROJECT ARBORIST.
11. EXCAVATION OR GRADING REQUIRED WITHIN THE PROTECTED AREA SHALL BE LIMITED TO THREE (3) INCHES OF CUT OR FILL. COORDINATE WITH PROJECT ARBORIST.
12. STRUCTURES AND UNDERGROUND FEATURES TO BE REMOVED WITHIN THE TREE PROTECTION ZONE SHALL BE COORDINATED WITH THE PROJECT ARBORIST.
13. TREE PROTECTION FENCING AROUND TREES TO BE RELOCATED SHALL BE ERECTED UNTIL THE TREE IS READY TO BE RELOCATED AND NEW FENCING SHALL BE ERECTED AT THE TREES NEW LOCATION AND WILL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE.
14. IF ANY DAMAGE TO TREE PROTECTION FENCING SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE REPAIRS.
15. IF TEMPORARY HAUL OR ACCESS ROADS MUST PASS OVER THE PROTECTED AREA OF TREES TO BE PRESERVED, A ROAD BED OF SIX (6) INCHES OF MULCH OR GRAVEL SHALL BE CREATED TO PROTECT THE SOIL. THE ROAD BED MATERIAL SHALL BE REPLENISHED AS NECESSARY TO MAINTAIN A SIX (6) INCH ROAD BED AT ALL TIMES. CONTRACTOR SHALL REMOVE ALL SUCH MATERIALS FROM THE SITE AS SOON AS TEMPORARY ACCESS IS NO LONGER NECESSARY.
16. CONTRACTOR SHALL COORDINATE WITH THE PROJECT ARBORIST PRIOR TO THE REMOVAL OF ALL TREE PROTECTION FENCING.

C. ROOT PRUNING/TRENCHING

1. TRENCHING LOCATIONS SHALL BE APPROVED IN THE FIELD BY THE PROJECT ARBORIST.
2. TRENCHING EQUIPMENT THAT WILL TURN AT HIGH RPM'S IS PREFERRED, AND SHALL BE APPROVED BY THE PROJECT ARBORIST. APPROVED EQUIPMENT WILL BE USED TO PERFORM ALL ROOT PRUNING OPERATIONS. A MINIMUM DEPTH OF THREE FEET IS REQUIRED.
3. INSTALL ROOT BARRIER WHERE DESIGNATED. SEE TREE MITIGATION PLAN AND DETAIL SHEETS.
4. THE TRENCH SHALL BE BACKFILLED WITH PREVIOUSLY EXCAVATED SOIL AND COMPACTED IMMEDIATELY.
5. TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF TWELVE (12) WEEKS PRIOR TO TREE RELOCATION.
6. WHEN THE TREE ROOT ZONE WILL BE DISTURBED, AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS AT THE POINT WHERE CONSTRUCTION IMPACTS THE ROOTS.

D. CLEARING

1. ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION ZONE SHALL BE ACCOMPLISHED WITH HAND-OPERATED EQUIPMENT.
2. CONTRACTOR SHALL CLEAR ALL TREE PROTECTION AREAS OF VINES, SHRUBS, GROUND COVERS, WEEDS, SAPLINGS, AND INVASIVES LISTED ON THE LATEST EDITION OF THE FLORIDA EXOTIC PEST PLANT COUNCIL'S LIST OF INVASIVE SPECIES.
3. PROJECT ARBORIST MUST APPROVE METHODS OTHER THAN HAND CLEARING.
4. A TWO (2) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS OF PROTECTED TREES DURING THE SITE CLEARING PHASE.

E. TREE CANOPY PRUNING

1. TREE PRUNING SPECIFICATIONS SHALL BE DEFINED BASED ON SPECIFIC RECOMMENDATIONS OF THE PROJECT ARBORIST. INFORMATION PRESENTED BELOW SHOULD BE USED AS A GUIDELINE.
2. CONTRACTOR SHALL VISIT THE SITE WITH THE PROJECT ARBORIST TO VERIFY THE EXTENT OF REQUIRED PRUNING.
3. ALL PRUNING SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST OR AN AMERICAN SOCIETY OF CONSULTING ARBORISTS (ASCA) REGISTERED CONSULTING ARBORIST (RCA).
4. AT LEAST ONE MEMBER OF THE PRUNING CREW SHALL BE AN ISA CERTIFIED ARBORIST.
5. WHILE IN THE TREE, THE ARBORIST SHALL PERFORM AN AERIAL INSPECTION TO IDENTIFY DEFECTS THAT REQUIRE TREATMENT. ANY ADDITIONAL WORK NEEDED SHALL BE REPORTED TO THE OWNER.
6. PRUNING CUTS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI A300 PRUNING STANDARD (AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS) AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI Z133.1 SAFETY STANDARD. PRUNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ISA'S "BEST MANAGEMENT PRACTICES: TREE PRUNING".
7. WHERE TEMPORARY CLEARANCE IS NEEDED FOR ACCESS, BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE.
8. NO MORE THAN 20 PERCENT OF LIVE FOLIAGE SHALL BE REMOVED WITHIN ANY TREE.
9. ALL TREES WITHIN THE PROJECT AREA SHALL BE PRUNED AS FOLLOWS:
   a. LIVE BRANCH PRUNING SHOULD BE PERFORMED ONLY WHEN THE DANGER OF INSECT OR DISEASE INFESTATION IS NOT PRESENT.
   b. REMOVE STUBS, CUTTING OUTSIDE THE WOUND WOOD TISSUE THAT HAS FORMED AROUND THE BRANCH.
   c. CLEANING, FOR THE SELECTIVE REMOVAL OF DEAD, DISEASED, BROKEN, OR CROSSING BRANCHES DOWN TO ONE INCH IN DIAMETER OR AS DIRECTED BY THE PROJECT ARBORIST.
   d. PRUNING CUTS LARGER THAN 4 INCHES IN DIAMETER, EXCEPT FOR DEAD WOOD, SHALL BE AVOIDED.
   e. PRUNING CUTS THAT EXPOSE HEARTWOOD SHALL BE AVOIDED WHENEVER POSSIBLE.
   f. ALL TREES WITH CROWNS THAT PROJECT INTO PARKING LOT/ROADWAY AREAS SHALL BE RAISED TO 14 FEET ABOVE FINISHED GRADE.
   g. ALL TREES WITH CROWNS THAT PROJECT INTO SIDEWALK AREAS SHALL BE RAISED TO A HEIGHT OF 8 FEET ABOVE FINISHED GRADE.
9. TREES, WHO'S ROOT SYSTEMS WILL BE IMPACTED SHALL RECEIVE THE FOLLOWING PRUNING TO COMPENSATE FOR ROOT LOSS:
   a. THE LOCATION AND SIZE OF BRANCHES FOR REDUCTION SHALL BE DEFINED BY THE PROJECT ARBORIST.
   b. REDUCTION, OR THE SELECTIVE PRUNING TO REDUCE TREE HEIGHT OR SPREAD.
   c. REDUCE END WEIGHT ON HEAVY, HORIZONTAL BRANCHES BY SELECTIVELY REMOVING SMALL DIAMETER BRANCHES, NO GREATER THAN 2 TO 3 INCHES, NEAR THE ENDS OF SCAFFOLD BRANCHES.
   d. RAISING SHALL CONSIST OF SELECTIVE PRUNING TO PROVIDE VERTICAL CLEARANCE.
10. PROPOSED/REPLACEMENT TREES
   a. PRUNING SHALL BE LIMITED TO CLEANING.
11. BRUSH SHALL BE CHIPPED AND SPREAD (ONLY WHEN DISEASE OR INSECT INFESTATION IS NOT PRESENT) UNDERNEATH TREES WITHIN THE TREE PROTECTION ZONE TO A MAXIMUM DEPTH OF THREE (3) INCHES, LEAVING THE TRUNK CLEAR OF MULCH.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EXCESS DEBRIS ON A DAILY BASIS.

F. FERTILIZATION

1. CONTRACTOR SHALL COORDINATE FERTILIZATION PLAN, FOLLOWING BEST MANAGEMENT PRACTICES WITH THE PROJECT ARBORIST PRIOR TO COMMENCEMENT OF WORK.
2. EVERY EFFORT SHALL BE MADE TO UTILIZE CHEMICALS OF AN ORGANIC OR BIODEGRADABLE NATURE IN ORDER TO OFFER THE LEAST IMPACT TO THE NATURAL ENVIRONMENT. CONTRACTOR IS RESPONSIBLE FOR MIXING, APPLYING, AND DISPOSAL OF ALL CHEMICALS IN ACCORDANCE WITH STRICT ADHERENCE TO MANUFACTURER'S SPECIFICATIONS. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.
3. ONLY TREES AFFECTED BY CONSTRUCTION OR AS SHOWN ON THE TREE MITIGATION PLAN AND TREE INVENTORY SCHEDULE SHALL BE TREATED.
4. TREES SPECIFIED TO RECEIVE FERTILIZER SHALL BE TREATED AS FOLLOWS.
   a. MIX FERTILIZER ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO A TANK WITH AGITATION CAPABILITY.
   b. MIX WETTING AGENT ACCORDING TO MANUFACTURER'S SPECIFICATIONS INTO SAME TANK WITH FERTILIZER. AGITATE MIX.
   c. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AT EACH INJECTION SITE.
   d. THE CRITICAL ROOT ZONE AREA PLUS 2' BEYOND THE CRITICAL ROOT ZONE SHALL BE INJECTED, BUT NOT BEYOND ROOT PRUNING LOCATIONS.
   e. FERTILIZER SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ANY AERATION SYSTEMS.
   f. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY THE PROJECT ARBORIST PRIOR TO DISPOSAL.
5. TRANSPLANT INOCULANT & BIOSTIMULANT.
   a. CONTRACTOR SHALL PROVIDE MYCORRHIZAL TRANSPLANT INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. MIX INOCULANT IN 10" WIDE TOPSOIL RING AROUND THE ROOT BALL.
   b. CONTRACTOR SHALL PROVIDE INJECTABLE MYCORRHIZAL INOCULANT ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND AS RECOMMENDED BY THE PROJECT ARBORIST. AGITATE FOR 10 MINUTES.
   c. INJECT THE MIXTURE WITH A HYDRAULIC INJECTION SYSTEM INTO THE UPPER 6-12 INCHES OF SOIL WITH A SOIL PROBE. INJECT AT THE RATE OF ONE THIRD (1/3) GALLON AY EACH INJECTION SITE.
   d. EMPTY PRODUCT CONTAINERS SHALL BE STOCKPILED FOR INSPECTION BY PROJECT ARBORIST PRIOR TO DISPOSAL.
6. TRANSPLANT MAINTENANCE
   a. APPROXIMATELY ONE YEAR AFTER PLANTING, THE CONTRACTOR SHALL RE-FERTILIZE ALL TRANSPLANTS UTILIZING THE SAME PROCEDURES ABOVE.

G. INSECTICIDE

7. NOTIFY PROJECT ARBORIST IF ANY INFESTATION IS NOTICED.
8. FOLLOW PROJECT ARBORIST'S RECOMMENDED PROCEDURES.
9. FOLLOW ALL MANUFACTURERS' RECOMMENDATIONS CONCERNING APPLICATION. READ ALL WARNING LABELS.
10. ANY PETS, AS WELL AS, THE PETS FOOD AND WATER BOWLS SHOULD BE REMOVED FROM THE AREA AND ANY SWIMMING POOLS SHOULD BE COVERED. COORDINATE WITH PROJECT ARBORIST FOR FURTHER INSTRUCTION.
11. ENSURE COMPLETE COVERAGE AND REAPPLY 2-3 MONTHS AFTER INITIAL APPLICATION UTILIZING SAME PROCEDURE.

H. IRRIGATION

1. EVERY EFFORT SHALL BE MADE TO WATER THE PRESERVED TREES AND TRANSPLANTS. CONTRACTOR SHALL IRRIGATE BY HAND OR BY TEMPORARY IRRIGATION.
2. IRRIGATE AS REQUIRED BY PROJECT ARBORIST UNTIL PERMANENT IRRIGATION IS INSTALLED AND OPERATING.
3. UNDERGROUND IRRIGATION SHALL NOT BE INSTALLED WITHIN THE DRIP LINES OF EXISTING TREES UNLESS ROOT PROTECTION MEASURES ARE PROVIDED AND APPROVED BY PROJECT ARBORIST.

I. TREE REMOVALS

1. PRIOR TO AND DURING LAND CLEARING, INCLUDING GRUBBING, ALL TREES TO BE REMOVED SHALL BE CLEARLY MARKED BY PROJECT ARBORIST WITH RED SURVEY RIBBONS AT 36 INCHES MINIMUM ABOVE GRADE.
2. CONTRACTOR SHALL REMOVE ALL TREES AS SHOWN ON THE TREE MITIGATION PLANS AFTER THE TREE PROTECTION FENCING IS INSTALLED.
3. ALL TREES SHOWN TO BE REMOVED SHALL BE FELLED WITH A CHAIN SAW AND STUMP GROUND 6" BELOW SURFACE. ANY TREE SHOWN TO BE REMOVED THAT IS IN AN AREA WHERE COMPACTION IS CRITICAL SHALL BE FELLED WITH A CHAIN SAW AND STUMP REMOVED BY CONTRACTOR.
4. ALL WOOD AND STUMPS FROM REMOVALS SHALL BE HAULED FROM THE SITE THE SAME DAY, EXCEPT FOR TOPS. ALL TOPS ARE TO BE MULCHED AND STOCKPILED OR HAULED DIRECTLY TO MULCHED AREAS FOR RELOCATED TREES IF SCHEDULING PERMITS. TOPS SHALL BE CHIPPED AND PLACED IN THE TREE PROTECTION ZONE TO A DEPTH OF THREE (3) INCHES. ALL EXCESS WOOD CHIPS SHOULD BE HAULED OFF SITE AFTER TRANSPLANTING IS COMPLETE.
5. ALL BURN PITS IF APPLICABLE MUST BE APPROVED BY THE PROJECT ARBORIST AND OWNER.
6. TREES TO BE REMOVED THAT HAVE BRANCHES EXTENDING INTO THE CANOPY OF TREES TO REMAIN MUST BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST AND NOT BY DEMOLITION OR CONSTRUCTION CONTRACTORS. THE QUALIFIED ARBORIST SHALL REMOVE THE TREE IN A MANNER THAT CAUSES NO DAMAGE TO THE TREES AND UNDERSTORY VEGETATION TO REMAIN.
7. TREES TO BE REMOVED LOCATED WITHIN THE TREE PROTECTION ZONE SHALL BE REMOVED BY A QUALIFIED ISA CERTIFIED ARBORIST. THE TREES SHALL BE CUT NEAR GROUND LEVEL AND THE STUMP GROUND OUT.

J. MACHINE DUG TRANSPLANTING

1. DIG TRANSPLANT-RECEIVING HOLE.
2. SET SPADE DUG ROOT BALL INTO RECEIVING HOLE 4"-6" ABOVE EXISTING GRADE.
3. WASH SAND OR TOPSOIL INTO AIR POCKETS BETWEEN ROOT BALL AND RECEIVING HOLE.
4. INSTALL TOPSOIL RING, 4" HIGH, 10" WIDE, AROUND PERIMETER OF ROOT BALL. MIX MYCORRHIZAL TRANSPLANT INOCULANT INTO TOPSOIL RING PER MANUFACTURERS SPECIFICATIONS.
5. INSTALL THREE INCHES OF MULCH FROM PERIMETER OF ROOT BALL TO WITHIN 6" OF TREE TRUNK.
6. COVER TOPSOIL RING WITH 1" OF MULCH AND EXTEND MULCH 4"-6" DEEP, AWAY FROM PERIMETER OF ROOT RALL.
7. WATER TRANSPLANT.

K. HOLDING AREA FOR TRANSPLANTS

1. HOLDING AREAS SHOULD NOT BE NECESSARY. CONSTRUCTION PHASING SHOULD BE IMPLEMENTED SO THAT TREES ARE IMMEDIATELY RELOCATED TO THEIR PERMANENT LOCATION. COORDINATE WITH PROJECT ARBORIST AS NEEDED.
2. SHOULD A HOLDING AREA BE NECESSARY, TREE PROTECTION FENCING SHALL BE INSTALLED AT THE PERIMETER OF THE ENTIRE AREA.
3. CONTRACTOR SHALL COORDINATE LOCATION AND SPECIFICATIONS OF THE HOLDING AREA WITH PROJECT ARBORIST.
4. CONTRACTOR SHALL SUPPLY TEMPORARY IRRIGATION TO THE HOLDING AREA CONSISTING OF ABOVE GROUND PVC OR POLYETHYLENE PIPE. SPRAY OR ROTOR HEADS (WITH HEAD TO HEAD COVERAGE) AND A CONTROLLER. COORDINATE WITH PROJECT ARBORIST FOR CONTROLLER SETTINGS AND ALTERNATIVE WATERING METHODS.

L. TOPSOIL

1. CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATIONS WITHIN TREE PROTECTION AREAS WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.
2. ALL TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH.
3. TOPSOIL, PH RANGE OF 5.5 TO 7.0, 3-5 PERCENT ORGANIC MATERIAL MINIMUM, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STONES LARGER THAN ONE (1) INCH IN DIAMETER, STUMPS, ROOTS, TRASH, TOXIC SUBSTANCES, OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH.
4. VERIFY AMOUNT STOCKPILED IF ANY, AND SUPPLY ADDITIONAL AS NEEDED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST FOUR (4) INCHES DEEP. DO NOT OBTAIN TOPSOIL FROM BOGS OR MARSHES.
5. PROJECT ARBORIST SHALL APPROVE ALL TOPSOIL PRIOR TO PLACEMENT.

M. REPAIR OF DAMAGED TREES

1. IF DAMAGE TO ANY TREE SHOULD OCCUR BY ACCIDENT OR NEGLIGENCE DURING THE CONSTRUCTION PERIOD, THE PROJECT ARBORIST SHALL APPRAISE THE DAMAGE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPAIR BY THE CONTRACTOR.
2. IF ANY TREE DESIGNATED TO BE SAVED IS REMOVED FROM THE SITE WITHOUT PERMISSION OF THE OWNER'S REPRESENTATIVE, THE PROJECT ARBORIST SHALL APPRAISE THE TREE AND MAKE RECOMMENDATIONS TO THE OWNER FOR REPLACEMENT BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF THE TREE AND ANY FEES THAT MAY BE ASSESSED TO THE OWNER BY THE GOVERNING AGENCY.

1 / L0.52 TYPICAL TREE MITIGATION NOTES

No.	REVISIONS	DATE	BY

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REGISTERED LANDSCAPE ARCHITECT
WESTON MICHAEL ROGERS
LA6667442
STATE OF FLORIDA

Digitally signed by Weston M Rogers
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Date: 2020.08.04 16:57:41-04'00'

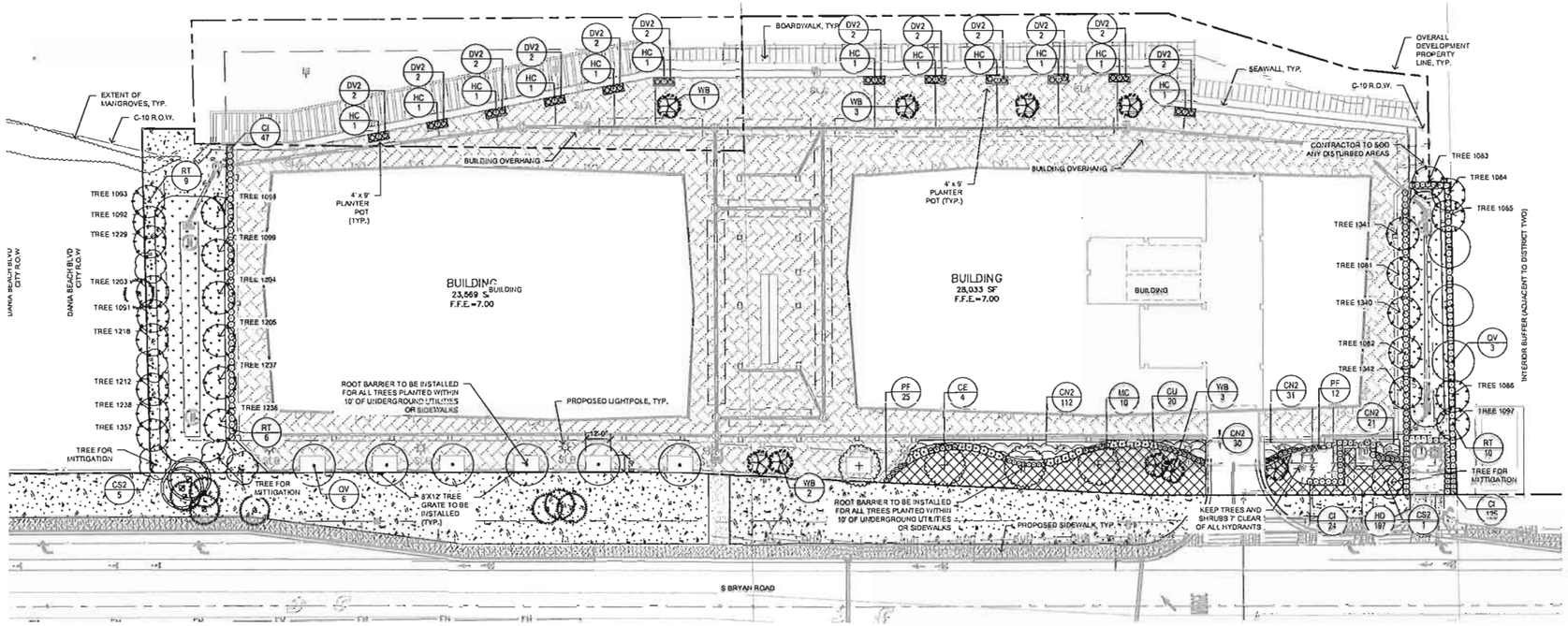
DATE: 8/4/2020

KHA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY BLN
DRAWN BY BLN
CHECKED BY MTF

TREE MITIGATION SPECIFICATIONS

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L0.51



CITY OF DANIA BEACH LANDSCAPE NOTES:

1. A PRE-CONSTRUCTION MEETING WITH THE DANIA BEACH CITY ARBORIST IS REQUIRED PRIOR TO LANDSCAPING ACTIVITIES INCLUDING REMOVAL OF TREES AND/OR INSTALLATION OF PLANT MATERIAL. CALL 954-924-0423 A MINIMUM OF 5 DAYS PRIOR TO DESIRED START DATE TO SCHEDULE PRE-CONSTRUCTION MEETING.
2. ALL EXISTING TREES PROPOSED TO REMAIN ARE TO BE SEPARATED FROM THE LIMITS OF DISTURBANCE OF THE CONSTRUCTION AREA BY TREE PROTECTION FENCING AND SIGNAGE. THE TREE PROTECTION FENCING SHALL BE LOCATED AT THE EDGE OF THE TREE PROTECTION ZONE AS DEPICTED ON THE PLAN OR AT THE EDGE OF THE DRIP-LINE(S) IF A TREE PROTECTION ZONE IS NOT DESIGNATED. NO MATERIAL STORAGE OR CONSTRUCTION ACCESS IS PERMITTED WITHIN THE TREE PROTECTION ZONE.
3. ALL EXISTING TREES SHALL BE PRUNED TO ANSI A-300 STANDARDS TO CORRECT POTENTIAL HAZARDS.
4. A TREE REMOVAL PERMIT IS REQUIRED PRIOR TO REMOVAL OR RELOCATION OF ANY TREE OR PALM. CONTACT THE DANIA BEACH CITY ARBORIST AT 954-924-6805 TO OBTAIN PERMIT INFORMATION.
5. LANDSCAPE CONTRACTOR SHALL NOTIFY SUNSHINE ONE CALL OF FLORIDA, INC. AT 1-800-432-4770 A MINIMUM OF 2 FULL BUSINESS DAYS PRIOR TO DIGGING. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR AVOIDING DAMAGE TO UTILITIES FROM PLANT INSTALLATION.
6. TREE RELOCATIONS:
   A. EXISTING TREES TO BE RELOCATED SHALL BE ROOT PRUNED A MINIMUM OF 120 DAYS PRIOR TO RELOCATION
   B. MINIMUM ROOT BALL SIZES SHALL BE IN ACCORDANCE WITH ANSI STANDARDS AS FOLLOWS:

CALIPER MINIMUM	ROOT BALL DIAMETER
1	16
2	24
3	32
4	42
5	54
6	60
7	70
8	80
> 8	12 INCHES PER INCH OF TRUNK DIAMETER

   TRANSPLANTED TREES WITH UNDERSIZED ROOT BALLS MAY BE REJECTED BY THE CITY ARBORIST AND REPLACEMENT TREES MAY BE REQUIRED.
   C. A TEMPORARY IRRIGATION SYSTEM SHALL BE PROVIDED DURING AND FOR THE FIRST 40 DAYS AFTER ROOT PRUNING.
7. ALL PLANTING MUST FOLLOW PLANTING SPECIFICATIONS AND DETAILS SHOWN ON THE PLAN.
8. SUBSTITUTIONS OF PLANT SPECIES OR SPECIFICATIONS MUST BE APPROVED IN WRITING BY THE DANIA BEACH CITY ARBORIST PRIOR TO USE.
9. ALL PLANT MATERIAL PLANTED PER THIS LANDSCAPE PLAN SHALL BE FLORIDA GRADE #1 OR BETTER AS SPECIFIED IN THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF AGRICULTURE'S GRADES AND STANDARDS FOR NURSERY PLANTS. DAMAGED PLANT MATERIAL SHALL BE REJECTED AND REPLACED PRIOR TO INSTALLATION.
10. ALL SIZES SHOWN FOR PLANT MATERIAL ARE TO BE CONSIDERED MINIMUMS.
11. WHERE QUANTITIES AND/OR SPECIES DIFFER BETWEEN THE PLANTING PLANS AND PLANT LISTS, THE PLANS SHALL TAKE PRECEDENCE
12. ALL NEW PLANT MATERIAL SHALL BE WARRANTED BY THE LANDSCAPE CONTRACTOR FOR A MINIMUM PERIOD OF ONE YEAR. THE WARRANTEE PERIOD SHALL BEGIN AFTER ACCEPTANCE OF THE PLANTS BY THE CITY ARBORIST.
13. ALL PLANT BEDS TO BE TREATED WITH PRE-EMERGENT HERBICIDE PRIOR TO PLANTING.
14. ALL TREE AND PALM STAKING AND SUPPORT SHALL BE REMOVED ONE YEAR AFTER INSTALLATION.
15. NO FERTILIZER SHALL BE APPLIED TO NEWLY PLANTED TREES AND PALMS.
16. ALL LANDSCAPE MATERIAL SHALL BE THOROUGHLY WATERED AT THE TIME OF PLANTING, NO DRY PLANTING PERMITTED.
17. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY WATER PROVISIONS UNTIL SUCH TIME AS THE IRRIGATION SYSTEM IS OPERATIONAL.
18. ALL WIRE GUYS AND/OR FABRIC STRAPS SHALL BE FLAGGED WITH FLORESCENT COLORED TAPE.
19. MULCHING:
   A. ALL LANDSCAPE AREAS NOT COVERED BY SOD SHALL BE COVERED BY A MINIMUM 3-INCH LAYER OF MULCH.
   B. A MULCH RING WITH A MINIMUM RADIUS OF 24 INCHES (48 INCH DIAMETER) IS REQUIRED AROUND ALL NEWLY INSTALLED TREES AND PALMS.
   C. CYPRESS MULCH SHALL NOT BE USED.
20. ALL NEW LANDSCAPED AREAS SHALL BE EXCAVATED DOWN TO A DEPTH OF 24 INCHES BELOW FINAL GRADE AND BACK FILLED WITH CLEAN DEBRIS-FREE SOIL. CONSTRUCTION ACCESS SHALL BE RESTRICTED FROM THE LANDSCAPE AREA AFTER EXCAVATION AND BACKFILL IS COMPLETE.
21. ALL LANDSCAPE AREAS SHALL BE FINISH GRADED SUCH THAT THEY ARE A MINIMUM OF 3.5 INCHES BELOW SURROUNDING PAVED SURFACES SO AS NOT TO IMPEDE THE FLOW OF DRAINAGE INTO LANDSCAPED AREAS AND TO ALLOW FOR A 3-INCH MULCH LAYER.

LANDSCAPE NOTES:

1. ALL LANDSCAPE MATERIAL TO BE FLORIDA GRADE #1 OR BETTER QUALITY
2. ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL.
3. ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
4. ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
5. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
6. ALL PLANTING AREAS SHALL BE COMPLETELY MULCHED AS SPECIFIED.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT CONDITIONS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR THE WARRANTY PERIOD.
11. ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
12. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR THE WARRANTY PERIOD. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS DURING THE NORMAL PLANTING SEASON.
13. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
14. ALL LANDSCAPING SHALL BE INSTALLED ACCORDING TO SOUND NURSERY PRACTICES, AND SHALL BE FLORIDA NO. 1 OR BETTER AS GIVEN IN "GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II," STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
15. ALL INVASIVE / EXOTIC SPECIES AND PROHIBITED TREE SPECIES SHALL BE REMOVED FROM SITE, INCLUDING ROOT BALLS TO THE EXTENT POSSIBLE WITH NO DAMAGE TO ADJACENT EXISTING TREES.
16. ALL LANDSCAPE AREAS WILL BE PROVIDED WITH PERMANENT AUTOMATIC IRRIGATION SYSTEM.
17. TREE SUPPORT MATERIALS ARE TO BE REMOVED FROM EACH TREE ONCE IT IS "ESTABLISHED" (AS APPROVED BY THE LANDSCAPE ARCHITECT).
18. ALL PLANT SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL PROCURE PLANT MATERIALS AND UPSIZE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION.

LANDSCAPE REQUIREMENTS		
CODE	REQUIRED	PROPOSED
DEVELOPMENT DESIGN GUIDELINES, LANDSCAPE DESIGN STANDARDS SECTION 5: INTERIOR BUFFER LANDSCAPE 5' WIDE LANDSCAPE BUFFER 1 TREE / 40 LF CONTINUOUS HEDGE ROW	INTERIOR (ADJACENT TO DISTRICT 2): 195 LF 5' WIDE 5 TREES	INTERIOR (ADJACENT TO DISTRICT 2): 195 LF 10' WIDE 3 TREES & 6 RELOCATED PALMS
DEVELOPMENT DESIGN GUIDELINES, LANDSCAPE DESIGN STANDARDS SECTION 5: DANIA BEACH BLVD 5' WIDE LANDSCAPE BUFFER 3 UNDERSTORY/ PALM TREES / 40 LF	DANIA BEACH R.O.W: 141 LF 5' WIDE 11 UNDERSTORY/ PALMS	DANIA BEACH R.O.W. 5' WIDE 9 RELOCATED PALMS 2 UNDERSTORY TREES
STREETSCAPE PER MASTER DEVELOPMENT PLAN 6' WIDE SIDEWALK 1 CANOPY TREE / 35 LF	BRYAN ROAD FUTURE R.O.W. 536 LF OF SIDEWALK = 15 TREES	10 TREES 5 PALMS
BUFFER ALONG CANAL ACROSS FROM RESIDENTIAL PROPERTY 10' WIDTH, 1 TREE AND 10 SHRUBS PER 200 LF	C-10 CANAL - 587 LF 3 TREES AND 30 SHRUBS	4 PALMS AND 36 SHRUBS
TREE MITIGATION: 1 TREE / 300 SF OF CANOPY REMOVED 4855 SF REMOVED	24 CATEGORY 1B TREES	4 CATEGORY 1B TREES (20 TREES DEFICIENT @ $1,500 PER TREE = $30,000 TREE FUND PAYMENT)
DEVELOPMENT DESIGN GUIDELINES, LANDSCAPE DESIGN STANDARDS SECTION 4: 50% MATERIAL TO BE NATIVE	50% NATIVES	TREES: 100% NATIVE (19 / 19 PROPOSED) SHRUBS: 83% NATIVE (269 / 325) GROUND COVER: 81% NATIVE (806 / 1000)

PLANT SCHEDULE SOUTH

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	CE	4	CONOCARPUS ERECTUS STRAIGHT, SINGLE LEADER, 4.5' CT, FL #1, NATIVE	GREEN BUTTONWOOD	FG	3" CAL MIN	12' HT., 6' SPR.
	CS2	6	CONOCARPUS ERECTUS 'SERICEUS' MULTI-TRUNK, 5-TRUNK MIN, FULL, FL #1, NATIVE	SILVER BUTTONWOOD	FG	5" CAL. TOT.	12' HT., 6' SPR.
	PR	8	EXISTING PALM TO REMAIN PROTECT AND PRESERVE; CONTRACTOR LIABLE FOR DAMAGE	EXISTING PALM TO REMAIN	EXISTING	-	-
	QV	9	QUERCUS VIRGINIANA STRAIGHT, FULL, SINGLE LEADER, 4.5' CT, FL #1, NATIVE	LIVE OAK	FG	5" CAL MIN	12' HT MIN
	RT	25	RELOCATED TREE FINAL LOCATION	RELOCATED TREE	EXISTING	-	-
	TR	2	EXISTING TREE TO REMAIN PROTECT AND PRESERVE; CONTRACTOR LIABLE FOR DAMAGE	EXISTING TREE TO REMAIN	EXISTING	-	-
PALM	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	WB	9	WODYETIA BIFURCATA FULL, FL #1, CLOSELY MATCHING	FOXTAIL PALM	FG	-	12' CT
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE
	CI	196	CHRYSOBALANUS ICACO 'RED TIP' FULL, NATIVE	COCO PLUM	7 GAL	36" OC	24" FULL
	CU	20	COCCOLOBA UVIFERA FULL, NATIVE	SEA GRAPE	7 GAL	48" OC	30" FULL
	DV2	24	DIANELLA TASMANICA 'VARIEGATA' FULL	VARIEGATED FLAX LILY	3 GAL	-	20" FULL
	HC	12	HELICONIA ANDROMEDA 'CHALCIANA' FULL	DWARF HELICONIA	3 GAL	-	24" FULL
	MC	10	MUHLENBERGIA CAPILLARIS FULL, NATIVE	PINK MUHLY	3 GAL	36" OC	20" FULL
	PF	43	PASPALUM FLORIDANUM FULL, NATIVE	FLORIDA PASPALUM	3 GAL	30" OC	18" FULL
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING
	CN2	194	CARISSA MACROCARPA 'NANA' FULL	DWARF NATAL PLUM	3 GAL	12" FULL	24" OC
	HO	806	HELIANTHUS DEBILIS FULL, NATIVE	DUNE SUNFLOWER	1 GAL	18" FULL	24" OC
	PA	5,636 SF	PASPALUM NOTATUM 'ARGENTINE' 100% WEED/DISEASE/DEBRIS FREE	BAHIA GRASS	SOD	-	-
	SOD	20,636 SF	STENOTAPHRUM SECUNDATUM 'FLORITAM' LAID TIGHT, ROLLED, 100% INSECT / WEED / DISEASE / DEBRIS FREE	FLORITAM ST. AUGUSTINE SOD	SOD	-	-
MISC.		QTY	BOTANICAL/COMMON NAME	SPECIFICATIONS			
MULCH		TBD	EUCALYPTUS MULCH	3" DEPTH MINIMUM, SHREDDED, FREE OF WEEDS/INVASIVE PLANT MATERIAL			

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

No.	REVISIONS	DATE	BY

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Date: 2020.08.04 16:37:43-04'00'

REGISTERED LANDSCAPE ARCHITECT WESTON MICHAEL ROGERS LA6667442 STATE OF FLORIDA

DATE: 8/4/2020

KHA PROJECT	147706000
DATE	01/24/2020
SCALE	AS SHOWN
DESIGNED BY	BLN
DRAWN BY	BLN
CHECKED BY	MTF

LANDSCAPE PLAN - 70 WAVE

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L1.00

Plotted By: Hall, Zack Sheet Set: Dania Beach Marina Layout: L1.01 August 04, 2020 05:00:24pm K:\ORL_LA\VERO BEACH\147706000 - Dania Marina\CAD\CONST\PlanSheets\L1.00 LANDSCAPE PLAN.dwg
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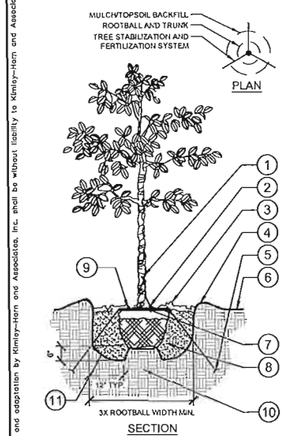
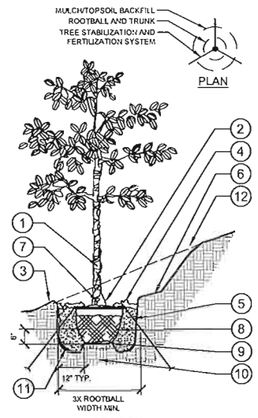


1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.
3. 3" MINIMUM MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 6' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. 4" HIGH BERM, FIRMLY COMPACTED.
5. TREE FROG ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. FINISHED GRADE. (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. TOP OF ROOTBALL SHALL BE 1" ABOVE FINISHED GRADE. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

1 L1.50 TREE PLANTING
SECTION / PLAN NTS

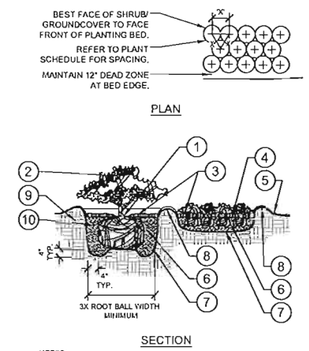


1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.
3. 3. 4" HIGH BERM, FIRMLY COMPACTED.
4. 3" MINIMUM OF HARDWOOD BARK MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 6' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. TREE FROG ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE. (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.
12. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.
C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

2 L1.50 TREE PLANTING ON A SLOPE
SECTION / PLAN NTS

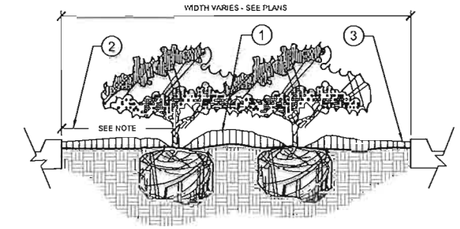


1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASSING/HT.
3. 3" MULCH LAYER AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES) NOTE: WHEN GROUND-COVERS AND SHRUBS USED IN MASSES, ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED.
7. SCARIFY OF PLANTING PIT SIDES AND BOTTOM.
8. 4" HIGH BERM FIRMLY COMPACTED.
9. UNDISTURBED NATIVE SOIL.
10. FERTILIZER TABLETS (MAX 3" DEEP)

NOTES:

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT.
C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

3 L1.50 SHRUB/GROUNDCOVER PLANTING
SECTION / PLAN NTS

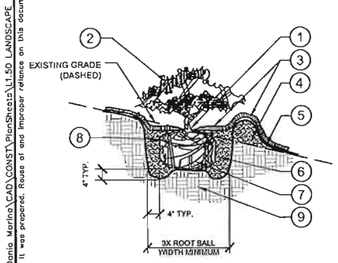


1. CROWN ISLANDS @ 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS).
2. CLEAR ZONE: 36" MIN. FROM BACK OF CURB TO CENTER OF NEAREST SHRUB. CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF, SEE PLANS.
3. 2" MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

NOTES:

A. EXCAVATE A CONTINUOUS 24" DEEP PIT (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.
B. PROTECT AND RETAIN ALL CURBS AND BASE. COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).
C. ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

4 L1.50 PLANTED PARKING LOT ISLANDS/MEDIANS
SECTION NTS

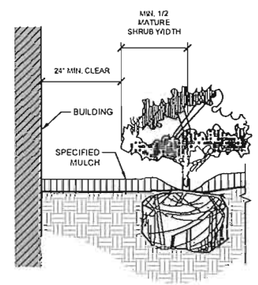


1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. PRUNE SHRUBS AS DIRECTED BY OWNER'S REPRESENTATIVE.
3. 3" MINIMUM OF MULCH AS SPECIFIED. WHERE SHRUBS ARE PLACED IN MASSES, MULCH SHALL BE SPREAD IN A CONTINUOUS BED.
4. SOIL BERM TO HOLD WATER. TOP OF PLANTING PIT 'BERM' TO BE LEVEL ACROSS PIT. SLOPE DOWNHILL PORTION OF BERM AS REQUIRED TO MEET EXISTING GRADE. MULCH OVER EXPOSED TOPSOIL.
5. FINISHED GRADE (SEE GRADING PLAN)
6. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES).
7. SCARIFY SIDES AND BOTTOM OF PLANTING PIT.
8. FERTILIZER TABLETS (MAX 3" DEEP).
9. UNDISTURBED NATIVE SOIL

NOTES:

A. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT.
C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

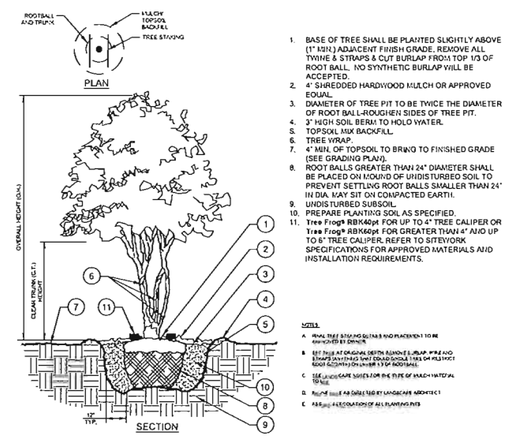
5 L1.50 SHRUB/GROUNDCOVER PLANTING ON A SLOPE
SECTION NTS



NOTES:

1. CLEAR ZONE: 36" MIN. FROM BUILDING TO CENTER OF NEAREST SHRUB.
2. INSTALL SPECIFIED MULCH: 24" MIN. FROM BUILDING. SPECIFIED MULCH TO BE INSTALLED AT A DEPTH OF 3" (MAX.)

6 L1.50 PLANTINGS ADJACENT TO BUILDINGS
SECTION NTS

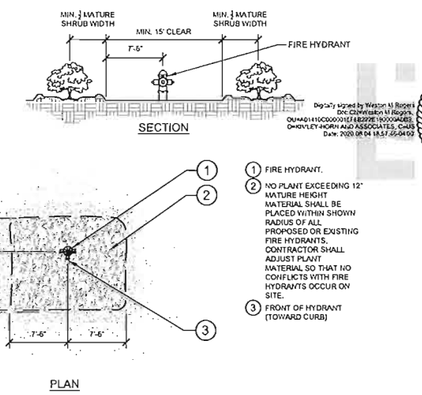


1. BASE OF TREE SHALL BE PLANTED SLIGHTLY ABOVE (1" MIN.) ADJACENT FINISH GRADE. REMOVE ALL TWINE & STRAPS & CUT BURLAP FROM TOP 1/3 OF ROOT BALL. NO SYNTHETIC BURLAP WILL BE ACCEPTED.
2. 4" SHREDDED HARDWOOD MULCH OR APPROVED EQUAL.
3. DIAMETER OF TREE PIT TO BE TWICE THE DIAMETER OF ROOT BALL-ROUGHEN SIDES OF TREE PIT.
4. 3" HIGH SOIL BERM TO HOLD WATER.
5. TOPSOIL MIX BACKFILL.
6. TREE WRAP.
7. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
8. ROOT BALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING ROOT BALLS SMALLER THAN 24" IN DIA. MAY SIT ON COMPACTED EARTH.
9. UNDISTURBED SUBSOIL.
10. PREPARE PLANTING SOIL AS SPECIFIED.
11. Tree Frog® RBK40pt FOR UP TO 4" TREE CALIPER OR Tree Frog® RBK60pt FOR GREATER THAN 4" AND UP TO 6" TREE CALIPER. REFER TO SITEWORK SPECIFICATIONS FOR APPROVED MATERIALS AND INSTALLATION REQUIREMENTS.

NOTES:

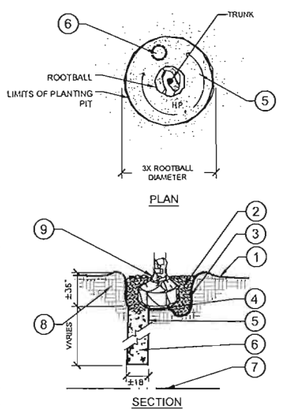
A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. REMOVE BURLAP AT ORIGINAL DEPTH (REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL).
C. SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.
D. REUSE SOIL AS DIRECTED BY LANDSCAPE ARCHITECT.
E. ASSURE PERCOLATION OF ALL PLANTING PITS

7 L1.50 MULTI-TRUNK TREE PLANTING
SECTION/PLAN NTS



1. FIRE HYDRANT.
2. NO PLANT EXCEEDING 12" MATURE HEIGHT MATERIAL SHALL BE PLACED WITHIN SHOWN RADIUS OF ALL PROPOSED OR EXISTING FIRE HYDRANTS. CONTRACTOR SHALL ADJUST PLANT MATERIAL SO THAT NO CONFLICTS WITH FIRE HYDRANTS OCCUR ON SITE.
3. FRONT OF HYDRANT (TOWARD CURB)

8 L1.50 SHRUB PLANTING AT FIRE HYDRANT
SECTION / PLAN NTS

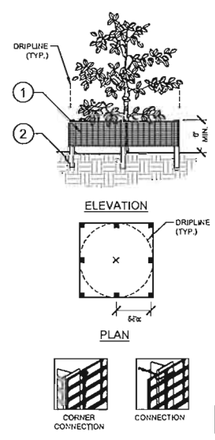


1. FINISH GRADE (SEE GRADING PLANS).
2. BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.
3. FILTER CLOTH, MIRAFI 500X OR BETTER.
4. SLOPE BOTTOM TO DRAIN.
5. AUGURED HOLE Ø ≥18" PENETRATE THROUGH OCCLUDING LAYER TO WATER TABLE OR TO A DEPTH OF 7' TO ASSURE PROPER PERCOLATION.
6. BACKFILL WITH 1/2" - 3/4" GRAVEL TO REQUIRED DEPTH THROUGH OCCLUDING LAYER TO ASSURE PROPER PERCOLATION.
7. WATER TABLE. (DEPTH VARIES)
8. UNDISTURBED NATIVE SOIL.
9. SET ROOTBALL ON UNDISTURBED STABLE SUBSOIL SO THAT TOP OF ROOT BALL IS 1" ABOVE FINISHED GRADE.

NOTES:

A. THIS DETAIL SHALL BE IMPLEMENTED WHERE PERCOLATION RATES ARE 2" PER HOUR OR LESS.
B. CONTRACTOR TO PERFORM PERCOLATION TEST AS REQUIRED, AND NOTIFY OWNER/LANDSCAPE ARCHITECT.
C. SEE TYPICAL TREE PLANTING DETAIL THIS SHEET FOR PLANT STAKING.

9 L1.50 POOR DRAINAGE CONDITION
SECTION / PLAN NTS



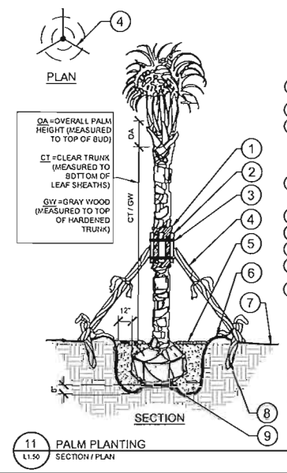
1. 5/4 "PERIMETER PLUS" CONSTRUCTION FENCE BY CONVEED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
2. 8' TALL METAL "T" POSTS OR 2" x 2" X 8' PRESSURE TREATED WOOD POSTS WITH 24" BURIAL BELOW GRADE.

INSTALLATION NOTES:

A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE WILL BE IN PLACE. FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS. METAL "T" POSTS OR TREATED WOOD POSTS ARE TYPICALLY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.
B. POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST. FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.
C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).
D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONVEED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETWEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

10 L1.50 TREE PROTECTION FENCING
ELEVATION / PLAN NTS

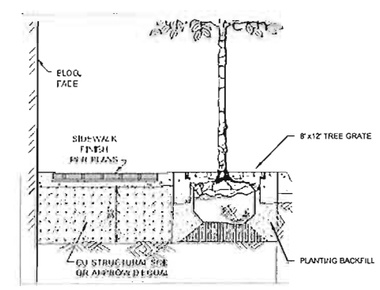


1. 5 LAYERS OF BURLAP TO PROTECT TRUNK.
2. FIVE 2" X 4" X 18" WOOD BATTENS.
3. SECURE BATTENS WITH 2- 3/4" CARBON STEEL BANDS TO HOLD BATTENS IN PLACE. NO NAILS SHALL BE DRIVEN INTO PALM. HEIGHT OF BATTENS SHALL BE LOCATED IN RELATION TO THE HEIGHT OF THE PALM FOR ADEQUATE BRACING.
4. (3) 2"X4"X8' SUPPORTS. NAIL (DRILL AN NAIL IF NECESSARY) TO BATTENS AND 2" 4" STAKES. STAIN DARK BROWN.
5. 3" SPECIFIED MULCH
6. BERM SOIL TO HOLD WATER.
7. FINISH GRADE
8. 2X4X24" (MIN) P.T. WOOD STAKES (TYP.) NAIL TO SUPPORT POLES.
9. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES).

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.
B. ALL TREE STAKING IS TO BE WITHIN MULCH BED AREA OUTSIDE TREE PIT.
C. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION - REFER TO POOR DRAINAGE CONDITION DETAIL.

11 L1.50 PALM PLANTING
SECTION / PLAN NTS



12 L1.50 MULTI-TRUNK TREE PLANTING
SECTION/PLAN NTS

No.	REVISIONS	DATE	BY

Kimley»Horn
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REGISTERED LANDSCAPE ARCHITECT WESTON MICHAEL ROGERS LA667442 STATE OF FLORIDA
Digitally signed by Weston M Rogers
Date: 2020.08.04 18:57:20-04'00'
DATE: 8/4/2020

KHA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

LANDSCAPE DETAILS

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L1.50

Plotted By:Hall, Zack Sheet Set:Dania Beach Marina Layout:L1.50 LANDSCAPE DETAILS.dwg
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GENERAL LANDSCAPE SPECIFICATIONS AND NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED HEREIN.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES ACCORDING TO ALL REGULATORY AGENCY'S STANDARDS THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES.

3. THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF FDOT DESIGN STANDARDS, INDEX 600. IF A DIRECT APPLICATION OF INDEX 600 IS PROPOSED, THE CONTRACTOR SHALL SUBMIT IN WRITING A STATEMENT INDICATING THE STANDARD INDEX AND PAGE NUMBER NO LESS THAN 10 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION. WHEN A DIRECT APPLICATION OF FDOT STANDARD INDEX 600 IS NOT ACCEPTABLE A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A FLORIDA PROFESSIONAL ENGINEER WHO HAS SUCCESSFULLY COMPLETED ADVANCED TRAINING IN MAINTENANCE OF TRAFFIC, AS DEFINED BY FDOT FOR APPROVAL BY THE COUNTY ENGINEER'S REPRESENTATIVE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR: REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UNDERGROUND FACILITIES DURING CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

C. PROTECTION OF EXISTING PLANT MATERIALS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC... THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED ON SITE. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF THREE HUNDRED DOLLARS ($300) PER CALIPER INCH ON AN ESCALATING SCALE WHICH ADDS AN ADDITIONAL TWENTY (20) PERCENT PER INCH OVER FOUR (4) INCHES CALIPER AS FIXED AND AGREED LIQUIDATED DAMAGES. CALIPER SHALL BE MEASURED SIX (6) INCHES ABOVE GROUND LEVEL FOR TREES UP TO AND INCLUDING FOUR (4) INCHES IN CALIPER AND TWELVE (12) INCHES ABOVE GROUND LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIPER.

2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.

D. MATERIALS

1. GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SAMPLE SIZE
MULCH	ONE (1) CUBIC FOOT
TOPSOIL MIX	ONE (1) CUBIC FOOT
PLANTS	ONE (1) OF EACH VARIETY (OR TAGGED IN NURSERY)

2. PLANT MATERIALS

a. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE FLORIDA GRADE NO. 1 OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.

b. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER, IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

c. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW:

2. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

a. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER: FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 5.5 AND 7.0.

b. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.

2. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

F. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC... IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

* WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

* FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

1. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (3) INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). MULCH SHALL BE "FLORIMULCH," EUCALYPTUS MULCH, OR SIMILAR SUSTAINABLY HARVESTED MULCH UNLESS SPECIFIED OTHERWISE.

2. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT (6' MINIMUM) PLANTED UNDER THIS CONTRACT.

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED (B&B), AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS: ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.

5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.

4. RPG= "ROOTS PLUS GROWER" CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMUM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

L. NATIVE STOCK

PLANTS COLLECTED FROM WILD OR NATIVE STANDS SHALL BE CONSIDERED NURSERY GROWN WHEN THEY HAVE BEEN SUCCESSFULLY RE-ESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NURSERY ROW.

M. MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

N. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

2. VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER, SANITARY SEWER, STORMWATER SYSTEMS, CABLE, AND TELEPHONE. PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

3. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION PLANTING DETAIL.

4. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

5. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

6. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.

7. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACK FILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

8. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES.

9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS.

10. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE. EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY WATER (AFTER TAMPING).

11. AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION. PROVIDE PRODUCT INFORMATION SUBMITTAL PRIOR TO INOCULATION.

12. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES. STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

13. TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY CERTIFIED ARBORIST, IN ACCORDANCE WITH ANSI A-300.

14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST. MATERIALS INSTALLED SHALL MEET MINIMUM SPECIMEN REQUIREMENTS OR QUANTITIES SHOW ON PLANS, WHICHEVER IS GREATER. CULTIVATE ALL PLANTING AREAS TO A MINIMUM DEPTH OF 6", REMOVE AND DISPOSE ALL DEBRIS. MIX TOP 4" THE PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. THOROUGHLY WATER ALL PLANTS AFTER INSTALLATION.

15. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.

16. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK. IF DIRECTED BY THE OWNER, "ROUND-UP" SHALL BE APPLIED FOR WEED CONTROL BY QUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANUFACTURER'S PRECAUTIONS AND SPECIFICATIONS. PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER. (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

P. LAWN SODDING

1. THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.

2. ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, WEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (3) INCHES, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHING NOT MORE THAN ONE-HUNDRED (100) POUNDS PER FOOT OF WIDTH DURING THE ROLLING. ALL DEPRESSIONS CAUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGRADED AND ROLLED UNTIL PRESENTING A SMOOTH AND EVEN FINISH TO THE REQUIRED GRADE.

3. PREPARE LOOSE BED FOUR (4) INCHES DEEP. HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED. WET PREPARED AREA THOROUGHLY.

4. SODDING

a. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.

b. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM WEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.

c. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAWN AREA. SOD SHALL BE LAID UNIFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAVED AND PLANTED AREAS. ADJACENT TO BUILDINGS, A 24 INCH STONE MULCH STRIP SHALL BE PROVIDED. IMMEDIATELY FOLLOWING SOD LAYING, THE LAWN AREAS SHALL BE ROLLED WITH A LAWN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED. IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS NECESSARY AFTER ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVED BY THE OWNER'S REPRESENTATIVE, SHALL BE UNIFORMLY SPREAD OVER THE ENTIRE SURFACE OF THE SOD AND THOROUGHLY WATERED IN. FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JURISDICTIONAL AUTHORITY.

5. DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYING AND UNNECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SWEATING OR EXCESSIVE HEAT AND MOISTURE.

6. LAWN MAINTENANCE

a. WITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12"X12") UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).

b. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SOD/LAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/IRRIGATION SCHEDULE TO OWNER. OBSERVE ALL APPLICABLE WATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

Q. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

R. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) NECESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

S. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

T. WARRANTY

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

2. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER.

3. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

1 / L1.51 TYPICAL LANDSCAPE SPECIFICATIONS (FLORIDA)

No.	REVISIONS	DATE	BY

Kimley»Horn

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REGISTERED LANDSCAPE ARCHITECT
WESTON MICHAEL ROGERS
LA6667442
STATE OF FLORIDA

Digitally signed by Weston M Rogers
DN: CN=Weston M Rogers, OU=A01410C0000015F1B2225190000A009, O=KIMLEY-HORN AND ASSOCIATES, C=US
Date: 2020.08.04 18:57:48-04'00'

DATE: 8/4/2020

KHA PROJECT 147706000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY ___
DRAWN BY ___
CHECKED BY ___

LANDSCAPE SPECIFICATIONS

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L1.51

Plotted By:Hall, Zack Sheet Set:Dania Beach Marina Layout:L1.51 August 04, 2020 06:00:49pm K:\ORL_LA\VERO BEACH\147706000 - Dania Marina\CAD\CONST\PlanSheets\L1.50 LANDSCAPE DETAILS.dwg
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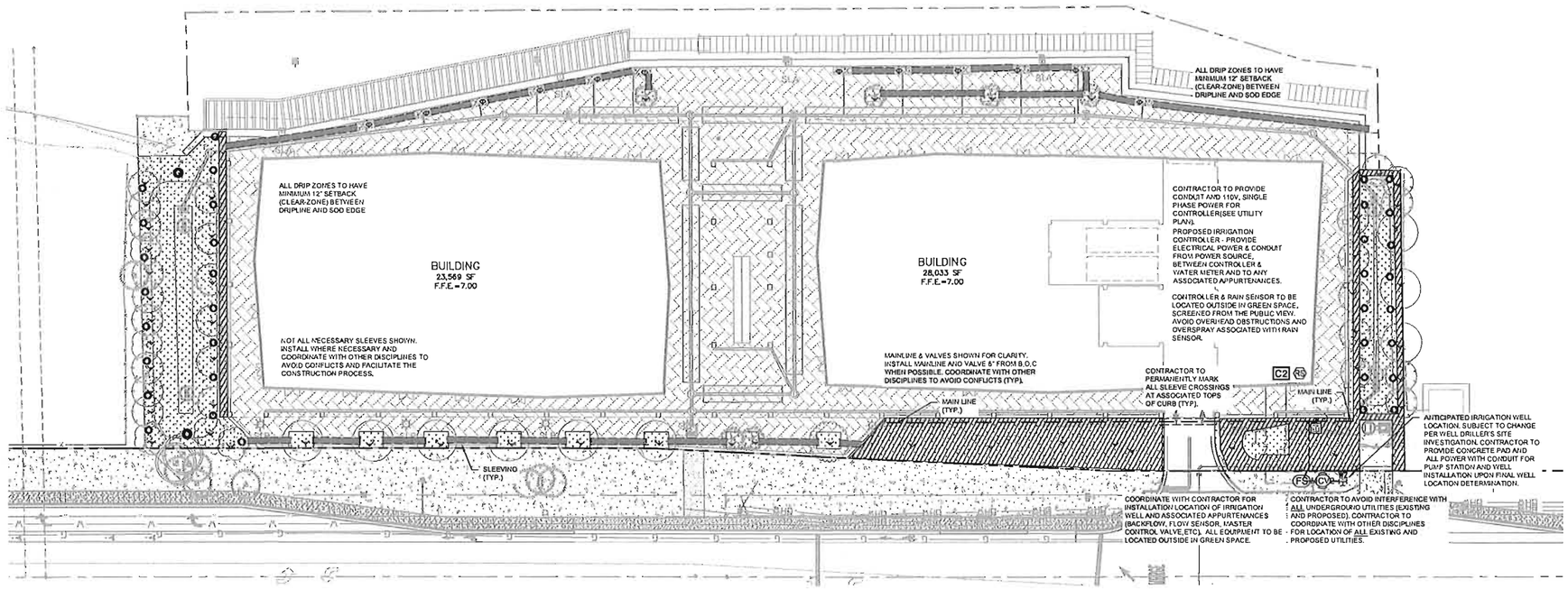

IRRIGATION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, ETC. PRIOR TO BEGINNING WORK.
2. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
3. THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
4. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
5. THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
6. CONTRACTOR TO VERIFY ACTUAL AVAILABLE WATER PRESSURE BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE WILL NOT ALLOW SYSTEM MODIFICATION TO BE POSSIBLE.
7. IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
8. WHERE APPLICABLE IRRIGATION HEADS ARE TO BE ADJUSTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAY BEYOND LANDSCAPE AREAS.
9. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
10. ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES.
11. IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNER'S REPRESENTATIVE.
12. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
13. CONTRACTOR TO PROVIDE PERMANENT BENCH-MARKS ON ALL CURB LINES AT RELATED SLEEVE LOCATIONS (TYP).
14. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED TO MINIMIZE ROOT DISTURBANCE IN EXISTING TREES.
15. IRRIGATION SPRAYS AND ROTORS ARE NOT COMBINED ON THE SAME CONTROL VALVE CIRCUIT - LANDSCAPE BEDS AND TURF ON SEPARATE CIRCUITS.
16. MATCH PRECIPITATION RATES WITH ANY HEADS THAT ARE REPLACED.

IRRIGATION WELL AND PUMP STATION PERFORMANCE SPECIFICATION

IRRIGATION WATER SUPPLY WELL

1.01 PERFORMANCE REQUIREMENTS

A. MINIMUM TESTED IRRIGATION WATER SUPPLY WELL PERFORMANCE CAPACITY:

THE WELL SHALL BE CAPABLE OF A MINIMUM OF 80 GPM AT 65 PSI AT THE WELL HEAD. THE SUBMERSIBLE PUMP AND MOTOR SHALL BE DESIGNED FOR CONTINUOUS SUBMERGED OPERATION. THE PUMP SHALL BE DRIVEN BY A MOTOR ATTACHED BELOW THE PUMP SECTION. ELECTRICAL POWER SHALL BE 480 VOLT, 3 PHASE, 60 HERTZ. THE OWNER SHALL PROVIDE ALL PRIMARY AND SECONDARY ELECTRICAL FOR THE PUMP STATION. THE WELL PUMP SHALL BE CONTROLLED WITH A VARIABLE FREQUENCY DRIVE. THE VFD PANEL SHALL BE MOUNTED AT LEAST 12" FROM FINISHED GRADE INSIDE A PROTECTIVE COVER. THIS DATA SHALL BE THE BASIS FOR DETERMINING ALL VARIABLES SUCH AS THE PUMP, MOTOR, VFD, AND WIRE SIZE. THE DEPTH OF THE WELL SHALL BE DETERMINED AS NEEDED FOR PERFORMANCE REQUIREMENTS.

1.02 QUALITY ASSURANCE

A. WELL DRILLER QUALIFICATIONS: AN EXPERIENCED WATER SUPPLY WELL DRILLER LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.

B. TESTING AGENCY QUALIFICATIONS: AN INDEPENDENT TESTING AGENCY, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, WITH THE EXPERIENCE AND CAPABILITY TO CONDUCT THE TESTING INDICATED, AS DOCUMENTED ACCORDING TO ASTM E 548.

C. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

D. AWWA COMPLIANCE: COMPLY WITH AWWA A100 FOR WATER SUPPLY WELLS.

CONTRACTOR SHALL TEST IRRIGATION WATER AFTER WELLS ARE CONSTRUCTED TO INSURE IT IS SUITABLE FOR LANDSCAPE IRRIGATION. IF THE IRON CONTENT EXCEEDS 1.2 PARTS PER MILLION, THE CONTRACTOR SHALL PROVIDE A COST PROPOSAL TO THE ENGINEER FOR PROVIDING A RUST INHIBITOR SYSTEM TO INSURE THAT ROADWAY PAVEMENT AND OTHER STRUCTURES ARE NOT STAINED. THIS WORK, IF NEEDED, WILL BE IN ADDITION TO THE CONTRACT.

CONTRACTOR RESPONSIBLE FOR COORDINATING WELL SIZE, DEPTH, AND LOCATION WITH WELL DRILLER. UPON WELL DRILLER INVESTIGATION, WELL SIZE, LOCATION, AND DEPTH SUBJECT TO CHANGE.

IRRIGATION SCHEDULE SOUTH

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
R-VAN15 R-VAN18-360	RAIN BIRD R-VAN18 1806 SAM-P45 TURF ROTARY, 13'-18' 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI W/-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	36	45
1401 1402 1404 1408	RAIN BIRD 1806-1400 FLOOD 1401 FLOOD BUBBLER 6.0" POPUP	53	20

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
0.5 1.0 2.0	RAIN BIRD XBT-6 SIX MULTI-OUTLET DRIP EMITTER/BUBBLER SIX-OUTLET, PRESSURE COMPENSATING, DRIP EMITTER. FLOW RATES OF 0.5GPH=BLUE, 1.0GPH=BLACK, AND 2.0GPH=RED, AT EACH EMITTER OUTLET. COMES WITH 1/2" FPT INLET X BARB OUTLET.	24
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-09-18 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.9 GPH EMITTERS AT 18" O.C. LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. SPECIFY XF INSERT FITTINGS.	4,214 L.F.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
NCV2	RAIN BIRD PEB-PRS-D 1-1/2" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.	1
C2	RAIN BIRD ESP8LXME WITH (01) ESPLXMSM12 20 STATION COMMERCIAL CONTROLLER. MOUNTED ON A PLASTIC WALL MOUNT. WITHOUT FLOW SENSING.	1
RS	RAIN BIRD WR2-RC WIRELESS RAIN SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN SENSOR TRANSMITTER.	1
FS	RAIN BIRD FS-150-P 1-1/2" FLOW SENSOR FOR USE WITH RAIN BIRD MAXICOM, SITECONTROL, AND ESP-LXD CENTRAL CONTROL SYSTEMS. PLASTIC (PVC) MODEL. SUGGESTED OPERATING RANGE OF 5.0 GPM TO 100.0 GPM. SENSORS SHOULD BE SIZED FOR FLOW RATHER THAN PIPE SIZE.	1
W2 1"	IRRIGATION WELL 2 SIZE PER WELL DRILLER	1
	IRRIGATION MAINLINE: PVC SCHEDULE 40	280.3 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 MAINLINE SLEEVING	28.1 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 LATERAL SLEEVING	689.8 L.F.

GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

Digitally signed by Weston M Rogers
DN: C=United States, O=KIMLEY-HORN AND ASSOCIATES, INC., CN=Weston M Rogers
Date: 2020.08.04 16:57:50-04'00'

FLOW TOTALS

Area for Drip/Inc:	52.4
Bubbler:	49.8
Drip Emitter:	5.3
Turf Rotary:	54.3
Total:	161.4 GPM

REGISTERED LANDSCAPE ARCHITECT
WESTON MICHAEL ROGERS
LA6667442
STATE OF FLORIDA
DATE: 8/4/2020

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT	147706000
DATE	01/24/2020
SCALE	AS SHOWN
DESIGNED BY	BLN
DRAWN BY	BLN
CHECKED BY	MTF

SCHEMATIC IRRIGATION PLAN - 70 WAVE

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L2.00

Plotted By:Hall, Zack Sheet Set:Dania Beach Marina Layout:L2.01 August 04, 2020 06:01:30pm K:\ORL_LA\VERO BEACH\147706000 - Dania Marina\CAD\CONST\PlanSheets\L2.00 IRRIGATION PLAN.dwg
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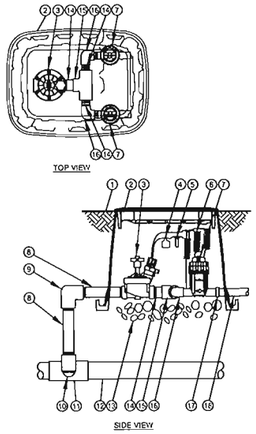
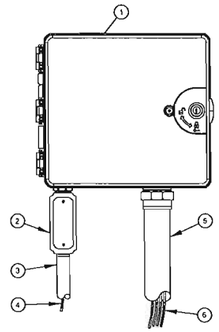


1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER:
3. REMOTE CONTROL VALVE:
4. ID TAG
5. WATERPROOF CONNECTION:
6. 30-INCH LINEAR LENGTH OF WIRE, COILED
7. PRESSURE REGULATING QUICK CHECK BASKET FILTER:
8. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
9. PVC SCH 40 ELL
10. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
11. PVC SCH 40 TEE OR ELL
12. MAINLINE PIPE
13. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL PVC SCH 80 NIPPLE, CLOSE
14. PVC SCH 40 TEE
15. PVC SCH 40 ELL
16. PVC SCH 40 FEMALE ADAPTOR
17. LATERAL PIPE
18.

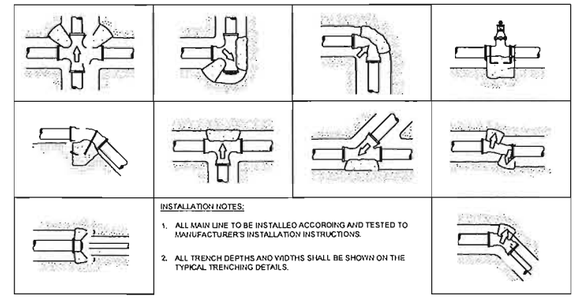
1 / L2.50 COMMERCIAL CONTROL DRIP ZONE VALVE KIT
SECTION / PLAN — NTS



1. IRRIGATION CONTROLLER: CONTROLLER (OWNER TO SPECIFY WALL MOUNT OR STAINLESS STEEL PEDESTAL MOUNT). INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX
3. 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
4. POWER SUPPLY WIRE
5. 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
6. WIRES TO REMOTE CONTROL VALVES

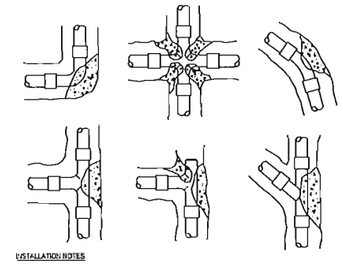
NOTES:
1. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

2 / L2.50 TYPICAL CONTROLLER
ELEVATION — NTS



INSTALLATION NOTES:
1. ALL MAIN LINE TO BE INSTALLED ACCORDING AND TESTED TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ALL TRENCH DEPTHS AND WIDTHS SHALL BE SHOWN ON THE TYPICAL TRENCHING DETAILS.

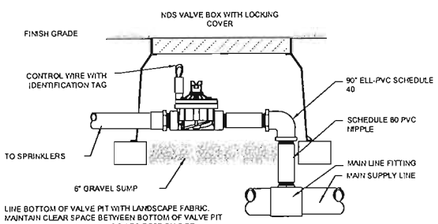
3 / L2.50 TYPICAL THRUST BLOCK
SECTION — NTS



INSTALLATION NOTES:
1. 3000 PSI CONCRETE OR BETTER IS TO BE USED FOR THRUST BLOCKS.
2. FOR 45/90° FITTINGS, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED.
3. FOR 22-1/2° FITTINGS, MINIMUM OF 0.5 CUBIC FEET OF CONCRETE TO BE USED.
4. FOR TEES, MINIMUM OF 3 CUBIC FEET OF CONCRETE TO BE USED. THRUST

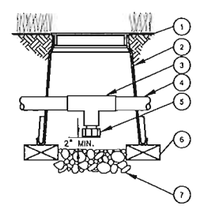
BLOCKS REQUIRED FOR IRRIGATION MAINLINE 2 1/2" AND LARGER.

4 / L2.50 THRUST BLOCK REINFORCEMENT
SECTION — NTS



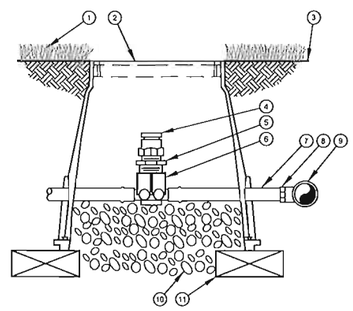
LINE BOTTOM OF VALVE PIT WITH LANDSCAPE FABRIC. MAINTAIN CLEAR SPACE BETWEEN BOTTOM OF VALVE PIT AND VALVE. DO NOT ALLOW BOX TO REST ON PIPE.

5 / L2.50 TYPICAL CONTROL VALVE
SECTION — NTS



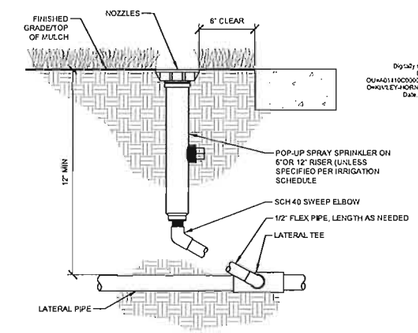
1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER:
3. PVC SCH 40 TEE
4. PVC LATERAL PIPE
5. FILTERED DRAIN VALVE:
6. BRICK (1 OF 2)
7. 6-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

6 / L2.50 DRAIN VALVE
SECTION — NTS

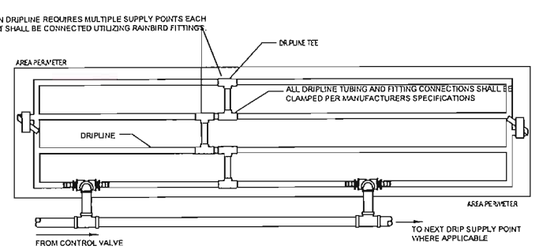


1. TURF GRASS
2. VALVE BOX LID
3. FINISH GRADE
4. 1/2" AIR RELIEF VALVE: TO BE INSTALLED AT HIGH POINTS IN DRIP ZONE
5. 1/2" X 3/4" PVC REDUCER BUSHING
6. BARB X FEMALE THREAD CONNECTOR:
7. 1/2" BLANK DRIPLINE TUBING:
8. BARB X MALE THREAD CONNECTOR:
9. PVC TEE CONNECTED TO PVC HEADER PIPE
10. 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
11. BRICK (1 OF 2)

7 / L2.50 AIR RELIEF VALVE IN XFS DRIP LINE
SECTION — NTS



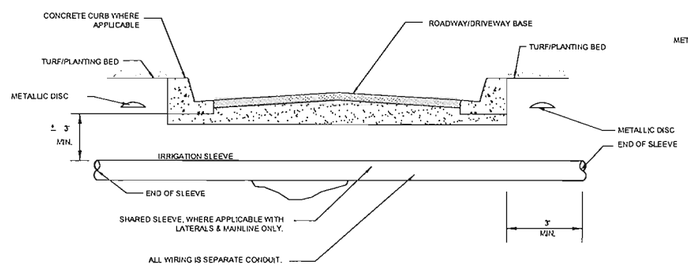
8 / L2.50 TYPICAL SPRAY / ROTAR HEAD
SECTION — NTS



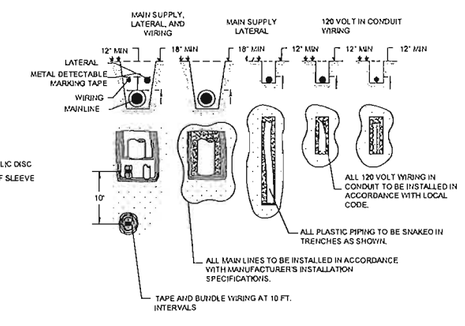
CONTRACTOR TO REFER TO IRRIGATION PLAN FOR LOCATION OF CONTROL VALVES THAT UTILIZE MULTIPLE DRIPLINE SUPPLY CONNECTIONS. IF NOT SHOWN, INSTALL WITHIN ADJACENT GREEN AREA NOT IN A HIGHLY VISIBLE AREA.

NOTE:
1. DRIP TUBING TO BE ROUTED IN THE PLANT MATERIAL BED WITH AT MAXIMUM LATERAL SPACING OF 16 INCHES.
2. DRIP TUBING TO BE INSTALLED IN A GRID PATTERN. DRIP TUBING SHALL NOT BE INSTALLED IN A LONG CONTINUOUS RUN.
3. CONTRACTOR TO REFER TO IRRIGATION PLAN FOR LOCATION OF CONTROL VALVES THAT UTILIZE MULTIPLE DRIPLINE SUPPLY CONNECTIONS (IF SHOWN).

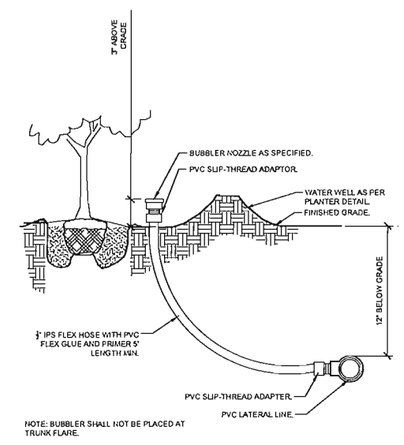
9 / L2.50 TYPICAL DRIP LINE
PLAN — NTS



10 / L2.50 TYPICAL SLEEVING
SECTION — NTS



11 / L2.50 TYPICAL TRENCHING
SECTION / PLAN — NTS



NOTE: BUBBLER SHALL NOT BE PLACED AT TRUNK FLARE.

12 / L2.50 TYPICAL BUBBLER
SECTION — NTS

No.	REVISIONS	DATE	BY

Kimley»Horn
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REGISTERED LANDSCAPE ARCHITECT WESTON MICHAEL ROGERS LA6667442 STATE OF FLORIDA

Digitally signed by Weston M Rogers
DN: C=US, E=weston.rogers@kimley-horn.com, O=KIMLEY-HORN AND ASSOCIATES, INC., CN=Weston M Rogers
Date: 2020.08.04 18:57:53-04'00'

DATE: 8/4/2020

KHA PROJECT	147706000
DATE	01/24/2020
SCALE	AS SHOWN
DESIGNED BY	ELN
DRAWN BY	ELN
CHECKED BY	MTF

IRRIGATION DETAILS

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L2.50

Plotted By:Hall, Zack Sheet Set:Dania Beach Marina Layout:L2.50 August 04, 2020 05:01:57pm K:\ORL_LA\VERO BEACH\147706000 - Dania Marina\CAD\CONST\PlanSheets\L2.50 IRRIGATION DETAILS.dwg
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IRRIGATION SYSTEM NOTES:

1. THE IRRIGATION MAINLINE LAYOUT IS DIAGRAMMATIC. ANY CHANGES MADE IN THE IRRIGATION MAINLINE DUE TO FIELD CONDITIONS OR CONTRACTOR'S SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
2. SET SPRAY HEADS 6" AND ROTORS 12" IN FROM BACK OF CURB OR 24" IF PAVEMENT HAS NO CURB.
3. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS PRIOR TO SUBMITTING PROPOSAL. THESE PLANS OUTLINE THE OVERALL LAYOUT THE SYSTEM AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ZONE THE SYSTEM ACCORDINGLY BASED ON FLOW AND PRESSURE AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING BUT NOT LIMITED TO AVAILABLE FLOW, AVAILABLE PRESSURE, CONNECTION ASSEMBLY, CAPACITY OF THE SYSTEM.
4. CONTRACTOR TO PROVIDE NEW AUTOMATIC CONTROLLER FOR PROPOSED SYSTEM (NO BATTERY OPERATED CONTROLLERS ALLOWED). COORDINATE LOCATION WITH OWNER.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AUTOMATIC RAIN SENSOR. COORDINATE LOCATION W/ OWNER.
6. IRRIGATION SHALL NOT BE COMBINED ON A SINGLE ZONE AND SHALL BE ZONED ACCORDING TO IRRIGATION TYPE, PRECIPITATION RATE, AND THE SYSTEM'S AVAILABLE WATER / PRESSURE. CONTRACTOR TO SUBMIT SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO INSTALLATION.
7. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS-CONTRACTOR SHALL FIELD VERIFY.
8. CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSI AND GPM PRIOR TO CONSTRUCTION.
9. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON-SITE.
10. CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS TO ENSURE ALL PLANT MATERIAL IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.
11. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT.
12. PRODUCTS SHALL BE AS SPECIFIED OR APPROVED EQUAL.

PRE-APPROVED MANUFACTURERS:
1. TORO
2. HUNTER
3. RAINBIRD

13. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JURISDICTION.
14. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE. ALL LINES UNDER PAVEMENT MUST BE SLEEVED WITHIN SCH. 40 PVC 2x SIZE OF PIPE AND FREE OF STONES/DEBRIS. ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS.
15. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
16. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES.
17. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN THE PIPE IT CARRIES.
18. ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SCH. 40 PVC SLEEVES.-WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
19. NUMBER THE TOP OF ALL VALVE BOX LIDS WITH MINIMUM 1" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS. ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB". LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.
20. THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES: "CAUTION: IRRIGATION LINE BURIED BELOW." THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.
21. ELECTRIC SERVICE TO THE CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
22. ALL 24 VAC WIRING FROM DECODER TO VALVE SHALL BE OF DIRECT BURIAL COPPER WIRE. MAXIMUM LENGTH OF WIRE FROM DECODER TO VALVE SHALL NOT EXCEED 400 FEET. AS FOLLOWS:
    CONTROL WIRES - #14
    COMMON WIRES - #14
23. ALL VALVES, SPLICES WITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED WITHIN NDS VALVE BOXES AS FOLLOWS:
    -RECTANGULAR 12"X17" HEAVY DUTY BOX. (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE).
24. ALL IRRIGATION HEADS/DRIP TUBING SHALL BE LOCATED ONE (1) FOOT FROM BACK OF CURB WHEN NEXT TO A ROADWAY. (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES).
25. HEADS, LATERALS, EMITTERS, AND VALVES ARE NOT SHOWN, BUT ARE NECESSARY FOR A FULLY FUNCTIONING IRRIGATION SYSTEM.
26. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3'-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (1) PIPE SIZE LARGER THAN VALVE SIZE. WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 2'-0" FROM THE EDGE OF PAVEMENT OR CURB.
27. IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW WATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES. BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES. AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE.
28. ALL DRIP ZONES SHALL BE INSTALLED WITH A FLUSH VALVE AND AIR RELIEF VALVE. IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE. DRIPLINE SHALL PROVIDE 0.9 GPH EMITTERS, 12" O.C. WITH 12" LINE SPACING AT A MINIMUM.
29. ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURERS SPECIFICATIONS. IF REQUIRED, ALL WIRING FOR A TWO WIRE PATH SHALL BE WITH RED/BLUE TWISTED PAIR 14 AWG. ELECTRIC CONTROL LINES FROM THE DECODER TO THE SOLENOID VALVES SHALL BE TWISTED PAIR 18 AWG. ALL DECODERS SHALL BE GROUNDED EVERY 1,000 L.F. OR EVERY 10 DEVICES. ALL WIRE SHALL BE FURNISHED IN MINIMUM 2,500' REELS AND SPLICING SHALL BE MINIMIZED. BURY SPLICE KIT. ALL 24 VOLT WIRING SHALL BE DONE IN ACCORDANCE WITH EXISTING CODES. SPLICING SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. IRRIGATION SYSTEM CONTROL SHALL BE TWO WIRE PATH. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S REQUIREMENTS FOR THIS INSTALLATION. TWO WIRE SYSTEM SHALL HAVE 2-WAY COMMUNICATIONS FIELD PROGRAMMABILITY, STATION SPECIFICATIONS AND INTEGRATED SURGE PROTECTION.
30. ALL CONTROL WIRE SHALL BE INSTALLED IN A 1 $\frac{1}{2}$" ELECTRICAL CONDUIT.
31. SMALLEST DIAMETER LATERAL PIPE SHALL BE 3/4".
32. IRRIGATION SYSTEM SHALL BE CAPABLE OF SUPPLYING AN AVERAGE OF 1.05" OF WATER PER WEEK WITHIN WATERING RESTRICTIONS AS APPLICABLE.
33. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH EXISTING, OR PRESERVED PLANT COMMUNITIES. DO NOT TRENCH THROUGH EXISTING ROOT SYSTEMS OF ANY VEGETATION INTENDED TO BE PRESERVED.
34. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.
35. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THE CONDITION DEPICTED ON THE LANDSCAPE PLAN.
36. IRRIGATION PIPING INSTALLED UNDER ROADS AND SIDEWALKS SHALL BE IN SCHEDULE 40 PVC SLEEVING AT 2X THE PIPE SIZE. ALL SLEEVING SHALL BE FREE OF STONES AND DEBRIS.
37. IRRIGATION SOURCE TO BE EITHER WELL, POTABLE, OR NON-POTABLE WATER. IRRIGATION CONTRACTOR TO VERIFY SOURCE PRIOR TO DESIGN.
38. POINT OF CONNECTION TO BE DETERMINED BY OWNER. IRRIGATION SYSTEM CONNECTIONS TO THE LOCAL JURISDICTION SERVICE SHALL COMPLY WITH ALL APPLICABLE CODES.
39. IRRIGATION CONNECTION MAY REQUIRE BACKFLOW PREVENTION. VERIFY WITH LOCAL JURISDICTION.
40. IRRIGATION SYSTEM SHALL COMPLY WITH THE LOCAL JURISDICTION LAND DEVELOPMENT CODE.

1 / L2.51 TYPICAL SCHEMATIC IRRIGATION NOTES

No.	REVISIONS	DATE	BY

Kimley»Horn
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PHONE: 772-794-4100
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Date: 2020.08.06 16:57:55-04'00'

REGISTERED LANDSCAPE ARCHITECT 6931 WESTON MICHAEL HAGEN LA6667442 STATE OF FLORIDA

DATE: 8/4/2020

KHA PROJECT 147700000
DATE 01/24/2020
SCALE AS SHOWN
DESIGNED BY BLN
DRAWN BY BLN
CHECKED BY MTF

IRRIGATION SPECIFICATIONS

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L2.51

Plotted By:Hall, Zack Sheet Set:Dania Beach Marina Layout:L2.51 August 04, 2020 06:02:14pm K:\ORL_LA\VERO BEACH\147706000 — Dania Marina\CAD\CONST\PlanSheets\L2.50 IRRIGATION DETAILS.dwg
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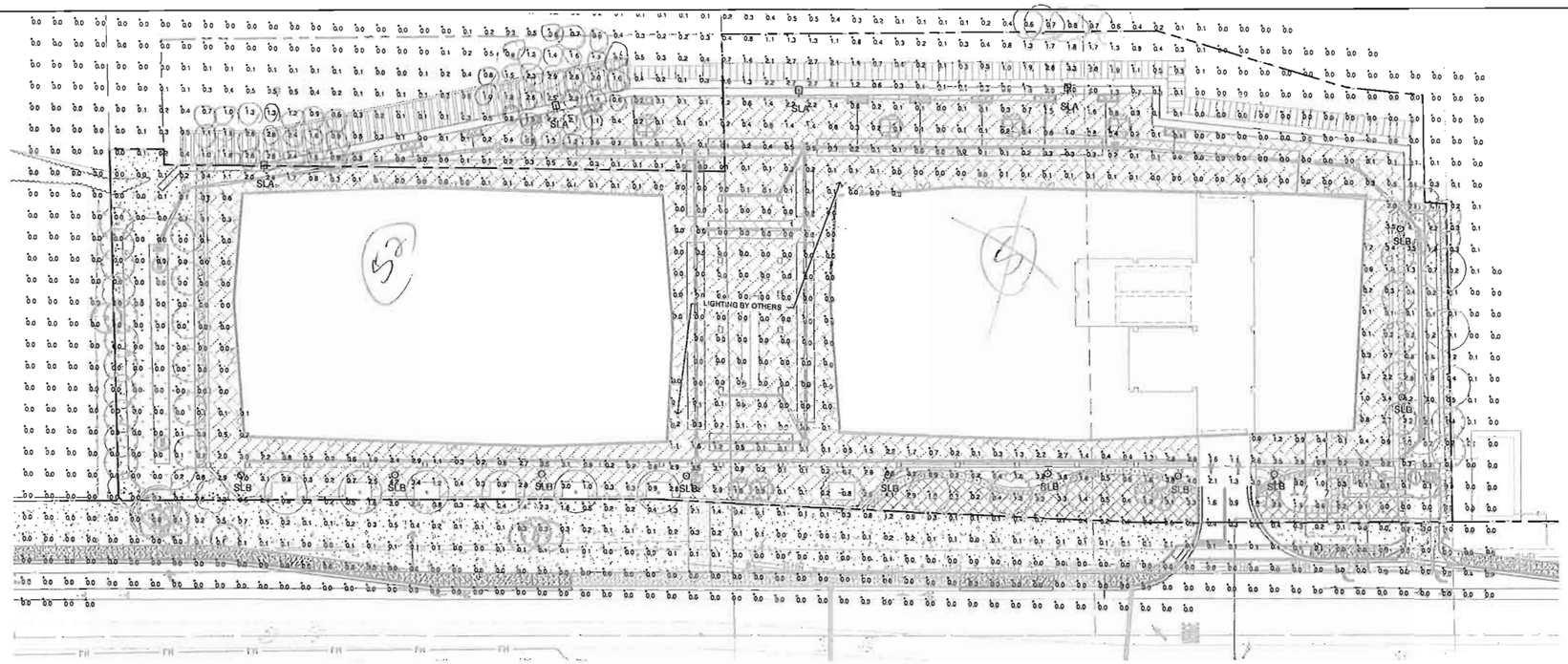

Lanzini Lighting Luminaire Schedule

Symbol	Manufac	Qty	Label	Arrangement	Description	LLF	Lum Watts	Total Lumens	BUG Rating
	Selux Corporation	4	SLA	SINGLE	UH-R3-XX-XX-U0740-30-XX-UNV; POLE MOUNTED @ 30' AFG	1.000	79	8177	B3-U0-G1
	Selux Corporation	10	SLB	SINGLE	MST-R2H-1-50350-30-12-RN-SH-UNV; MOUNTED ON A ROUND TAPERED DIRECT BURY ALUMINUM POLE AT 12' AFG	1.000	30	3031	B2-U0-G1

Date: _____ Customer: _____
Project: _____
Type: _____ Qty: _____

selux

Ouray
400

Order Code: U4 _____ _____ _____ _____ _____ _____

Pole Order Code: Series Height Finish Options

U4 — Series: U4 Ouray 400

Optics: R1 Type I, R2 Type II, R3 Type III, R2W Type II Wide, R4 Type IV, R3R Type III Round, R3S Type III Square, R3Q Type III Rectangular NS, FP Flame Projector

Fixed Mounting: S Stem Mounted Post, SA Single Post Adapter, S1 Single Post Arm, S2 Double Post Adapter, L1 Single Long Arm, L2 Double Long Arm, W Wall Mount, WD Decorative Wall Box

Adjustable Mounting: AT Adjustable Tilt, AS Adjustable Swivel, XX None

Light Engine: 50350 Nominal 50W, 50350 Nominal 50W, 50700 Nominal 70W, 50105 Nominal 105W, 50140 Nominal 140W

CCT: 27 2700K, 30 3000K, 40 4000K

Power Cord Length: 8 8', 10 10', 12 12', 14 14', 16 16', 18 18', XX XX'

Finish: WH White, BK Black, BL Sand Matte Black, BZ Bronze, SV Silver, SP Specify Premium Color

Voltage: UNV 120-277V, 120 120V, 240 240V, 277 277V, 347 347V, 480 480V

Options: DAP Downlight Aperture, HS House Side Shield (360°), HL30 Hole Level Shield (30°), HL50 Hole Level Shield (50°), CCF Confirm Fixture Color Prior to Shipment, OL Orthogonal Louvers, TLR Total Light Reduction Shroud, RAS Remote Photocell Sensor, PMS Pole Motion Sensor

Pole Motion Sensor
See current product specification for order info

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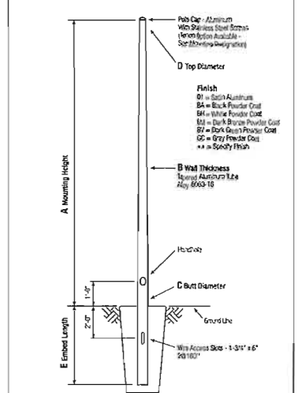
ID14_UA_01

RTA Round Tapered Aluminum Pole No Arm — Direct Buried



WARNING:
Do not install light poles without luminaire.

6061 Aluminum or Powder Coated Finish per Customer Specification

A Min. Height	B Max. Lumens	C Min. Length	Free Line Length	Moment Of A 90	100	110	120	130	Dx Cat. Number	Catalog Number
12	0.125"	5	100	12.6	10.0	8.2	7.4	6.0	07907-0312X	RTA12B5AE-**

C Base Dia.	D Top Dia.	E Embed
5	3	5
		5 Only if specified in order

Customer Name:
Project: Location:
Notes: Quantity:

RTA12B5AE - _____
CATALOG NUMBER FINISH

Pole
The pole shall be constructed of aluminum extruded tube of 6063 Aluminum Alloy per the requirements of ASTM B241. The shaft assembly shall be 12 feet in length from bottom to a 7 ft length.

Handhole
2-1/2" x 5" Handhole with raised Lip Style Aluminum Door and two (2) 5/8" Self Tapping Mounting Screws. A Grounding Provision is provided as part of the Handhole.

Embed Detail
Wire access will be provided 24" below ground line. Soil conditions may alter the foundation requirements. It shall be determined by a qualified (PE) civil engineer on a case by case basis. Provide 10" of Matrix AB foundation.

Wire Access Damper
Must be installed in accordance with Napco's Installation Manual and the factory supplied FOAM. For pole shaft diameters specifications see the number & dimensions.

Mounting Designations
Side Step Mount - For Side Grit Mount applications specify luminaire type, quantity of luminaires. Adjustable drilling template must be supplied at time of order.

Person Mount - Welded or Bolt For Small Mast Applications specify type, length, diameter (3.25", 4.25", 5.25", etc.), and length (3', 4', etc.). Select side or back, option. Welded Tenon comes bolted.

EPA Notes: Effective Projected Area (EPA) is square feet (ft²) calculated using all wind-by-load indicated in accordance with 2009 AASHTO LTS-5 using a 60 psi wind. Aluminum EPA is based on the maximum weight shown. Intermediate weight may reduce the maximum EPA if weight is a concern or if wind-by-load is only required at a lower wind-by-load.

napco
7600 Wood Hollow Dr.
Austin, TX 78731
512.328.2311
www.napco.com

Date: _____ Customer: _____
Project: _____
Type: _____ Qty: _____

selux

Mistella™ LED

Order Code: MST _____ _____ _____ _____ _____ _____

Pole Order Code: Series Height Finish Options

MST — Series: MST Mistella LED

Optics: R1 Type I, R2 Type II, R3 Type III, R2W Type II Wide (Wide), R4 Type IV, R3R Type III Round, R3S Type III Square, R3Q Type III Rectangular, DG Diffuse Glass Downlight Nominal, DB1 Diffuse Black Downlight Nominal, DB2 Diffuse Black Downlight Nominal

Mounting: 1 Single, 2 Double, W Wall

Light Engine: 50350 Nominal 50W Equivalent, 50500 Nominal 70W Equivalent, 50700 Nominal 105W Equivalent, 50950 Nominal 140W Equivalent, 56105 Nominal 150W Equivalent, 56140 Nominal 150W Equivalent

CCT: 27 2700K, 30 3000K, 40 4000K

Power Cord Length: 10 10', 12 12', 14 14', 16 16', 18 18', 20 20', XX' XX'

Finish: WH White, BK Black, BL Sand Matte Black, BZ Bronze, SV Silver, SP Specify Premium Color

Voltage: UNV 120-277V, 120 120V, 240 240V, 277 277V, 347 347V, 480 480V

Options: DAP Downlight Aperture, HS Hole Level Shield (360°), HL30 Hole Level Shield (30°), HL50 Hole Level Shield (50°), TLR Total Light Reduction Shroud, TLRPP Total Light Reduction Shroud Pole Pattern, GL Glare Lens, TOL Tamper Resistant Screws, RGR Remote Photocell Sensing Cap

Pole Motion Sensor
See current product specification for order info

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GRAPHIC SCALE IN FEET
0 15 30 60

NORTH

Kimley»Horn
© 2019 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

No.	REVISIONS	DATE	BY

LICENSED PROFESSIONAL

KHA PROJECT 147706000	
DATE 01/24/2020	
SCALE AS SHOWN	
DESIGNED BY BLN	
DRAWN BY BLN	
CHECKED BY MTF	DATE: 8/4/2020

LIGHTING PLAN - 70 WAVE

DANIA BEACH MARINA
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
L4.00

Plotted By:Hall, Zack Sheet Set:Dania Beach Marina Layout:L4.01 August 04, 2020 06:07:46am K:\ORL_LA\VERO BEACH\147706000 - Dania Marina\CAD\CONST\Plan Sheets\L4.00 LIGHTING PLAN.dwg
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ALTA/ NSPS LAND TITLE SURVEY and SKETCH of BOUNDARY SURVEY

PROPERTY ADDRESS

50 S BRYAN ROAD, DANIA BEACH FL 33004 FOLIO No.: 5042 33 32 0010

LEGAL DESCRIPTION

PARCEL A

PARCEL A OF CLARKE SUBDIVISION, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 101, PAGE 32 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; WHICH IS A PORTION OF THE NW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

PARCEL B

A PARCEL OF LAND BEING LOCATED IN THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST (SE) CORNER OF SAID SECTION 33; THENCE NORTH 01°17'46" WEST ALONG THE EAST LINE OF SAID SECTION 33 FOR A DISTANCE OF 1,340.78 FEET; THENCE SOUTH 87°30'33" WEST FOR A DISTANCE OF 1,118.51 FEET TO THE NORTHEAST (NE) CORNER OF A PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 8775, PAGE 400 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; THENCE SOUTH 01°26'53" EAST ALONG THE EAST LINE OF SAID PARCEL FOR A DISTANCE OF 50.01 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG AFORESAID LINE FOR A DISTANCE OF 25.00 FEET TO THE SOUTHEAST (SE) CORNER OF SAID PARCEL, (SAID POINT ALSO BEING THE NORTHEAST CORNER OF PARCEL A OF CLARKE SUBDIVISION AS RECORDED IN PLAT BOOK 101, PAGE 32 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA); THENCE SOUTH 87°30'33" WEST ALONG THE SOUTH LINE OF THE AFOREMENTIONED PARCEL (SAID LINE ALSO BEING THE NORTH LINE OF SAID CLARKE SUBDIVISION PLAT) FOR A DISTANCE OF 186.10 FEET TO THE NORTHWEST (NW) CORNER OF PARCEL A OF SAID PLAT; THENCE NORTH 42°30'48" EAST, A DISTANCE OF 35.36 FEET; THENCE NORTH 87°30'33" EAST ALONG A LINE 25 FEET NORTH OF AND PARALLEL WITH THE NORTH LINE OF SAID CLARKE SUBDIVISION A DISTANCE OF 161.55 FEET TO THE POINT OF BEGINNING.

SAID LANDS LYING AND SITUATE IN THE CITY OF DANIA, BROWARD COUNTY, FLORIDA.

ITEMS CORRESPONDING TO SCHEDULE B-II

SURVEYOR REPORT ON OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY COMMITMENT, FILE No.: 19104126 CJ3, COMMITMENT EFFECTIVE DATE SEPTEMBER 09, 2019 AT 11:00 PM.

ITEM NO.	SCHEDULE B – SECTION 2
1 through 9	CONTAIN GENERAL CONDITIONS THAT HAVE BEEN ADDRESSED ON THIS SURVEY MAP OR FALLS OUTSIDE THE PURVIEW OF THE LAND SURVEYING PROFESSION. AFFECTS THE SUBJECT PROPERTY BUT CONTAINS NOT PLOTTABLE SURVEY MATTER.
10	ALL MATTERS CONTAINED ON THE PLAT OF CLARKE SUBDIVISION, AS RECORDED IN PLAT BOOK 101, PAGE 32. AFFECTS SUBJECT PROPERTY; AND IF APPLICABLE, AS SHOWN ON THE MAP OF SURVEY.
11	SUBJECT TO AUTOMATIC PHOSPHATE, METALS, MINERALS AND PETROLEUM RESERVATIONS BY VIRTUE OF SEC. 270.11(1), F.S. (AS TO PARCEL B). AFFECTS SUBJECT PROPERTY; PLOTTED; AS SHOWN ON THE MAP OF SURVEY.
12 through 13	AFFECTS THE SUBJECT PROPERTY BUT CONTAINS NOT PLOTTABLE SURVEY MATTER.
14	THE RIGHTS, IF ANY, OF THE PUBLIC TO USE AS A PUBLIC BEACH OR RECREATION AREA ANY PART OF THE LAND LYING BETWEEN THE BODY OF WATER ABUTTING THE SUBJECT PROPERTY AND THE NATURAL LINE OF VEGETATION, BLUFF, EXTREME HIGH WATER LINE, OR OTHER APPARENT BOUNDARY LINES SEPARATING THE PUBLICLY USED AREA FROM THE UPLAND PRIVATE AREA. DOES NOT AFFECT THE SUBJECT PROPERTY.
15	AFFECTS THE SUBJECT PROPERTY BUT CONTAINS NOT PLOTTABLE SURVEY MATTER.

THE ABOVE NAMED DOCUMENTS ARE RECORDED IN THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SIGNIFICANT OBSERVATIONS

** OBSERVATIONS LISTED (IF ANY) ARE NOT INTENDED TO DEPICT OR IMPLY POSSESSION OR OWNERSHIP.

- A CONCRETE SEAWALL SEGMENT, CROSSES 2.1' NORTH AND 3.0' SOUTH, OVER EASTERLY BOUNDARY LINE, AS SHOWN ON SURVEY.
- B CONCRETE SEAWALL, CROSSES 9.3', OVER EASTERLY BOUNDARY LINE, AS SHOWN ON SURVEY.
- C CONCRETE DECK, CROSSES 16.0' NORTH AND 22.1' SOUTH, OVER EASTERLY BOUNDARY LINE, AS SHOWN ON SURVEY.
- D CONCRETE SEAWALL, CROSSES 16.1', OVER EASTERLY BOUNDARY LINE; TOGETHER WITH A PORTION OF CONCRETE PAVEMENT, CONCRETE CURB, GRASS AREA AND EXISTING TREES, BETWEEN EAST BOUNDARY LINE AND EXISTING CONCRETE SEAWALL, AS SHOWN ON SURVEY.
- E CONCRETE SEAWALL, CROSSES 41.9', OVER EASTERLY BOUNDARY LINE, AS SHOWN ON SURVEY.

SURVEYOR'S CERTIFICATION

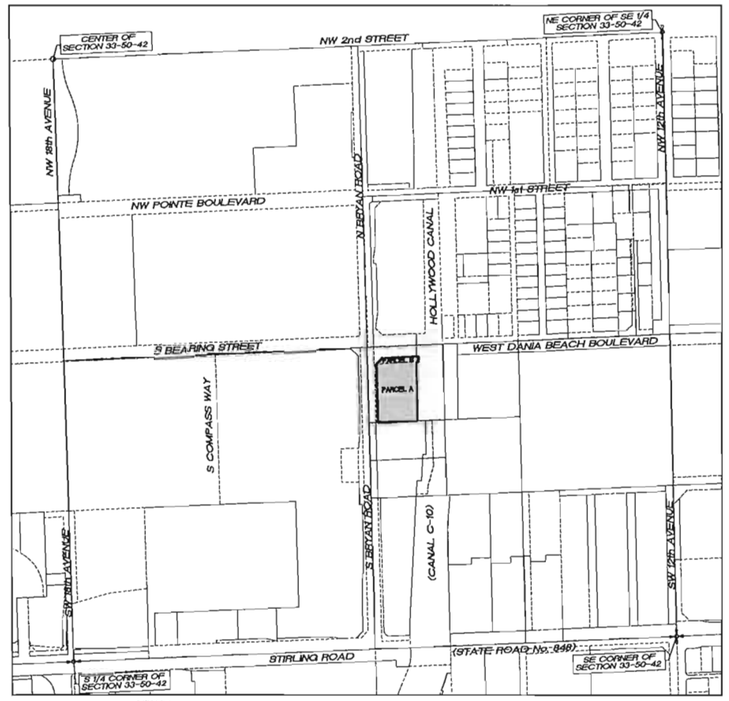
THIS SURVEY IS MADE FOR THE BENEFIT OF:

- DANIA BEACH MARINA CORP.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 7(a), 8, 9, 10(a), 11, 13, 14, 16, 17, 18, AND 19 OF TABLE A THEREOF.

THE FIELD WORK WAS COMPLETED ON JANUARY 25, 2020.
DATE OF MAP: JANUARY 29, 2020.

Gary B. Castel
REGISTERED LAND SURVEYOR NO. 4129
STATE OF FLORIDA
Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper.



LOCATION SKETCH
SCALE: 1 Inch = 300 feet
A PORTION OF SE 1/4 OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST
CITY OF DANIA BEACH, BROWARD COUNTY, FLORIDA

ZONING INFORMATION

THE ZONING INFORMATION SHOWN ABOVE WAS PROVIDED TO THE SURVEYOR BY THE CLIENT AND IS ACCORDING TO ORDINANCE No. 2019-015, CITY OF DANIA BEACH, FLORIDA, DATED OCTOBER 30, 2019.

PROPERTY ADDRESS: 50 SOUTH BRYAN ROAD, DANIA BEACH, FL 33004

ZONING: PLANNED SMALL LOT MIXED-USE DEVELOPMENT DISTRICT (PMUD-SL), ACCORDING TO ARTICLE 350 OF THE LAND DEVELOPMENT CODE, ORDINANCE No. 2019-015, OF CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA).
** BUILDING SETBACKS HAS NOT BEEN DETERMINED YET BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA).

TOTAL GROSS SITE AREA: 73,356.3 SQUARE FEET

TOTAL NET LOT AREA: 50,352 SQUARE FEET

CONTINUATION OF SURVEYOR REPORT AND NOTES

27. AT THE TIME OF THIS ALTA SURVEY THERE WERE NOT CHANGES IN STREET RIGHT-OF-WAY LINES AND THERE WERE NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.

28. AT THE TIME OF THIS ALTA SURVEY THERE WAS NOT OBSERVABLE EVIDENCE OF THE SITE USE AS A SOLID WASTE DUMP, SUMP, OR SANITARY LANDFILL.

29. AT THE TIME OF THIS ALTA SURVEY THERE IS NOT EVIDENCE OF WETLANDS IN THE SUBJECT PROPERTY.

30. THIS "ALTA/NSPS LAND TITLE SURVEY AND BOUNDARY SURVEY" CONSISTS OF MULTIPLE (2) SHEETS AND SHALL NOT BE CONSIDERED FULL, VALID, AND COMPLETE UNLESS EACH SHEET IS ATTACHED TO THE OTHER.

SURVEYOR REPORT and NOTES

1. THIS "ALTA/NSPS LAND TITLE SURVEY AND BOUNDARY SURVEY", AND THE SURVEY MAP AND REPORT RESULTING THEREFROM WAS PREPARED FOR THE SPECIFIC PURPOSE OF DEPICTING THE MEASUREMENT OF HORIZONTAL DATA FOR THE SUBJECT PROPERTY AS DESCRIBED THEREON. THE COMPARATIVE VALUES BETWEEN FIELD, RECORD AND CALCULATED MEASUREMENTS AS MAY APPLY, ARE AS MORE FULLY SHOWN ON THE SURVEY MAP.

2. LEGAL DESCRIPTION FURNISHED BY THE CLIENT, AND WAS REVISED TO MATCH LEGAL DESCRIPTION AS SHOWN ON OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY COMMITMENT, FILE No.: 19104126 CJ3, COMMITMENT EFFECTIVE DATE SEPTEMBER 09, 2019 AT 11:00 PM.

3. THESE MEASUREMENTS AND EXAMINATIONS WERE PERFORMED UNDER MY DIRECT SUPERVISION AND IN MY PROFESSIONAL JUDGEMENT, EVERY ATTEMPT WAS MADE TO LOCATE THE DATA IN QUESTION USING THE STANDARD OF CARE FOR SURVEYING AND MAPPING IN THESE MATTERS, SUBJECT TO THE LIMITATIONS AS SET FORTH IN THIS SURVEY MAP AND REPORT.

4. THE SURVEY MAP IS INTENDED TO BE DISPLAYED AT THE STATED GRAPHIC SCALES IN US SURVEY FOOT OF MEASUREMENT AS DEPICTED ON THE SURVEY MAP. ATTENTION IS DIRECTED TO THE FACT THAT SAID SURVEY MAP MAY BE ALTERED IN SCALE BY REPRODUCTION AND MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

5. THE ACCURACY OBTAINED FOR ALL HORIZONTAL CONTROL MEASUREMENTS AND OFFICE CALCULATIONS OF CLOSED GEOMETRIC FIGURES, MEETS OR EXCEEDS THE CURRENT STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, AS CONTAINED IN CHAPTER 5J-17.051 (3) (b), 15.b.ii, OF 1 FOOT IN 10,000 FEET FOR COMMERCIAL AREAS.

6. SINCE NO OTHER INFORMATION OTHER THAN WHAT IS CITED IN THE SOURCES OF DATA WERE FURNISHED, THE CLIENT IS HEREBY ADVISED THAT THERE MAY BE LEGAL RESTRICTIONS ON THE SUBJECT PROPERTY THAT ARE NOT SHOWN ON THE SURVEY MAP OR CONTAINED WITHIN THIS REPORT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY, OR THE RECORDS OF ANY OTHER PUBLIC AND PRIVATE ENTITIES AS THEIR JURISDICTIONS MAY APPEAR. THE SURVEYOR MAKES NO REPRESENTATION AS TO OWNERSHIP OR POSSESSION OR OCCUPATION OF THE SUBJECT PROPERTY BY ANY ENTITY OR INDIVIDUAL.

7. THE SURFACE INDICATIONS OF UTILITIES HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO EXPRESS OR IMPLIED GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE SUBJECT PROPERTY, EITHER IN SERVICE OR ABANDONED, AS THE CASE MAY BE. THE SURVEYOR MAKES NO FURTHER EXPRESS OR IMPLIED GUARANTEE THAT THE UTILITIES AS DELINEATED ON THE SURVEY MAP ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES STATE THAT SAID DATA WAS PRESENTED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AS MAY BE AVAILABLE.

8. NOTICE: NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS AND REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

9. THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE, THE LIABILITY OF THIS SURVEY IS LIMITED TO THE COST OF THE SURVEY.

10. NO INFORMATION WAS PROVIDED AS TO THE EXISTENCE OF ANY EASEMENTS OTHER THAN THE ONES INDICATED ON THE UNDERLYING PLAT OR THE COMMITMENT FOR TITLE INSURANCE. AS PART OF THE SURVEY, THE RECORDED DOCUMENTS CITED IN THE ABOVE CAPTIONED COMMITMENT, OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY COMMITMENT, SCHEDULE B, SECTION 2 WERE REVIEWED.

11. THE RECORD DESCRIPTION OF THE SUBJECT PROPERTY FORMS A MATHEMATICALLY CLOSED FIGURE.

12. STREET R/W, BUILDING SETBACK, ZONING REQUIREMENTS AND ABSTRACT OF TITLE MUST BE CHECKED BY OWNER BEFORE ANY CONSTRUCTION BEGINS ON THIS PROPERTY.

13. THE LEGAL OWNERSHIP OF THE FENCES AND/OR WALLS (IF ANY) WAS NOT DETERMINED UNDER THE SCOPE OF THIS SURVEY, AND THE LOCATIONS SHOWN HEREON ARE BASED, ON THE RECOVERED BOUNDARY MONUMENTATION.

14. THE PREMISES HAS DIRECT PHYSICAL ACCESS TO S BRYAN ROAD, WHICH IS PUBLICALLY DEDICATED RIGHT OF WAY, AS SHOWN ON SURVEY.

15. BASIS OF BEARING: BEARINGS SHOWN HEREON ARE RELATIVE TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (901), NORTH AMERICAN DATUM (N.A.D.) OF 1983, ADJUSTMENT OF 2011 (N.A.D. 83/2011) EPOCH 2010.0000; WITH A BEARING OF N 87°34'06" E, BEING ESTABLISHED FOR THE CENTERLINE OF STIRLING ROAD (STATE ROAD No.848) (SOUTH LINE OF SE ¼, OF SECTION 33-50-42).

16. COORDINATES SHOWN HEREON (GEODETIC AND STATE PLANE) ARE BASED ON GLOBAL POSITIONING SYSTEM (G.P.S.) OBSERVATION USING THE FLORIDA PERMANENT REFERENCE NETWORK (F.P.R.N.), (www.dot.state.fl.us/surveyingand mapping/fprn.shtm).
HORIZONTAL CONTROL STATIONS:

NAME	NORTH DADE	NAME	DAVIE
CODE	FLND	CODE	FTLD
GEOGRAPHIC COORDINATES	LAT. -- 25°57'56.76791" N LON. -- 80°10'02.22323" W	GEOGRAPHIC COORDINATES	LAT. -- 26°07'14.23386" N LON. -- 80°20'24.79307" W
STATE PLANE COORDINATES	N -- 594,119.589 US FEET E -- 929,757.537 US FEET	STATE PLANE COORDINATES	N -- 650,079.887 US FEET E -- 872,652.618 US FEET
CREATION DATE	JANUARY 06, 2020	CREATION DATE	JANUARY 06, 2020
RECEIVER TYPE	LEICA GR30	RECEIVER TYPE	LEICA GR30
SATELLITE SYSTEM	G/R/E	SATELLITE SYSTEM	G/R/E

ACCURACY WITHIN TOLERANCE AS SET FORTH BY THE F.A.A. REFERENCED TO NORTH AMERICAN DATUM 1983, 1990 ADJUSTMENT.

17. THE SUBJECT PROPERTY LIES WITHIN A FLOOD HAZARD HAVING A FLOOD DESIGNATION OF:
AH, WITH A BASE FLOOD ELEVATION: 5.0' (NAVD88) ------- (± 77 % OF THE PROPERTY)
X, WITH A BASE FLOOD ELEVATION: N.A. ---------- (± 19 % OF THE PROPERTY)
AE, WITH A BASE FLOOD ELEVATION: 4.0' (NAVD88) ------- (± 4 % OF THE PROPERTY)
PURSUANT TO THE FLOOD INSURANCE RATE MAPS PUBLISHED BY THE UNITED STATES FEDERAL EMERGENCY MANAGEMENT AGENCY UNDER COMMUNITY No: 120034 (CITY OF DANIA BEACH) AND PANEL NUMBER: 0567, SUFFIX: H, AS LAST REVISED IN AUGUST 18, 2014, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH THE PREMISES IS SITUATED.

18. THE SUBJECT PROPERTY CONTAINING:
GROSS LAND AREA ---------- 73,356.3 SQUARE FEET OR 1.684 ACRES MORE OR LESS
NET LAND AREA ---------- 50,352 SQUARE FEET OR 1.156 ACRES MORE OR LESS.
NET LAND AREA PARCEL A (as per legal description) ------- 46,006.8 SQUARE FEET OR 1.056 ACRES MORE OR LESS.
NET LAND AREA PARCEL B (as per legal description) ------- 4,345.2 SQUARE FEET OR 0.100 ACRES MORE OR LESS.

19. ALL ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88), AND A BENCHMARK SUPPLIED BY ENGINEERING DIVISION OF BROWARD COUNTY, FLORIDA.
BENCH MARK NUMBER: 2041
SECTION-TOWNSHIP-RANGE: 33-50-42
DESCRIPTION: BROWARD COUNTY ENGINEERING DIVISION BRASS DISC IN CONCRETE SIDEWALK, IN THE SOUTHEAST CORNER OF BRIDGE OVER C-10 CANAL AT OLD GRIFFIN ROAD.
ELEVATION (N.G.V.D.29): 12.83 (In Feet) CONVERTED TO ELEVATION (NAVD88): 11.23 (In Feet).
FOR TBM INFORMATION SEE SKETCH OF SURVEY.

20. THIS SKETCH OF BOUNDARY SURVEY IS BASED ON:
- CLARKE SUBDIVISION, PLAT BOOK 124 PAGE 64,
- DANIA POINTE, PLAT BOOK 183 PAGE 98,
- DANIA DISTRIBUTION CENTRE, PLAT BOOK 173 PAGE 85,
- FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CERTIFIED CORNER RECORD, DOC. No. D92103 (STIRLING ROAD AND SW 12th AVENUE, SE CORNER OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST),
- FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP FOR STATE ROAD No. 848 (STIRLING ROAD), SEGMENT No. 411438-1, PROJECT No. B8016-2500, DATED 10/30/2007.
- FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP FOR STATE ROAD No. 818 (GRIFFIN ROAD), ITEM No. 413832-1, PROJECT No. B8015-2525, DATED 07/10/2008.

ALL ABOVE MENTIONED DOCUMENTS RECORDED ON THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

21. AT THE TIME OF THIS ALTA SURVEY, THE NUMBER OF STRIPED REGULAR PARKING SPACES WHICH ARE MARKED IS 21, THE NUMBER OF PARKING SPACES WHICH ARE MARKED FOR USE BY THE DISABLED IS 1. TOTAL NUMBERS OF PARKING SPACES IS 22.

22. AT TIME OF SURVEY, THERE NOT OBSERVABLE PARTY WALLS RESPECT TO ADJOINING PROPERTIES.

23. THE SURVEY CORRECTLY SHOWS THE LOCATION OF ALL STRUCTURES AND OTHER IMPROVEMENTS SITUATED ON THE PREMISES.

24. THE LOCATION OF THE UTILITIES SHOWN HEREON ARE FROM OBSERVED VISIBLE EVIDENCE OF ABOVE GROUND.

25. INFORMATION OF ADJACENT OWNERS OBTAINED FROM THE COUNTY'S PROPERTY APPRAISER WEB SITE, AT TIME OF THE SURVEY.

26. AT THE TIME OF THIS ALTA SURVEY THERE ARE NOT OBSERVABLE EVIDENCE OF EARTH WORK AND DRAINAGE SYSTEM CONSTRUCTION.

GARY B. CASTEL
PROFESSIONAL LAND SURVEYOR
25465 SW 134th PLACE, HOMESTEAD, FLORIDA 33032
Mobile Phone: (786) 486-6786
E-Mail: esplandsinc@gmail.com

RECORD OF REVISION

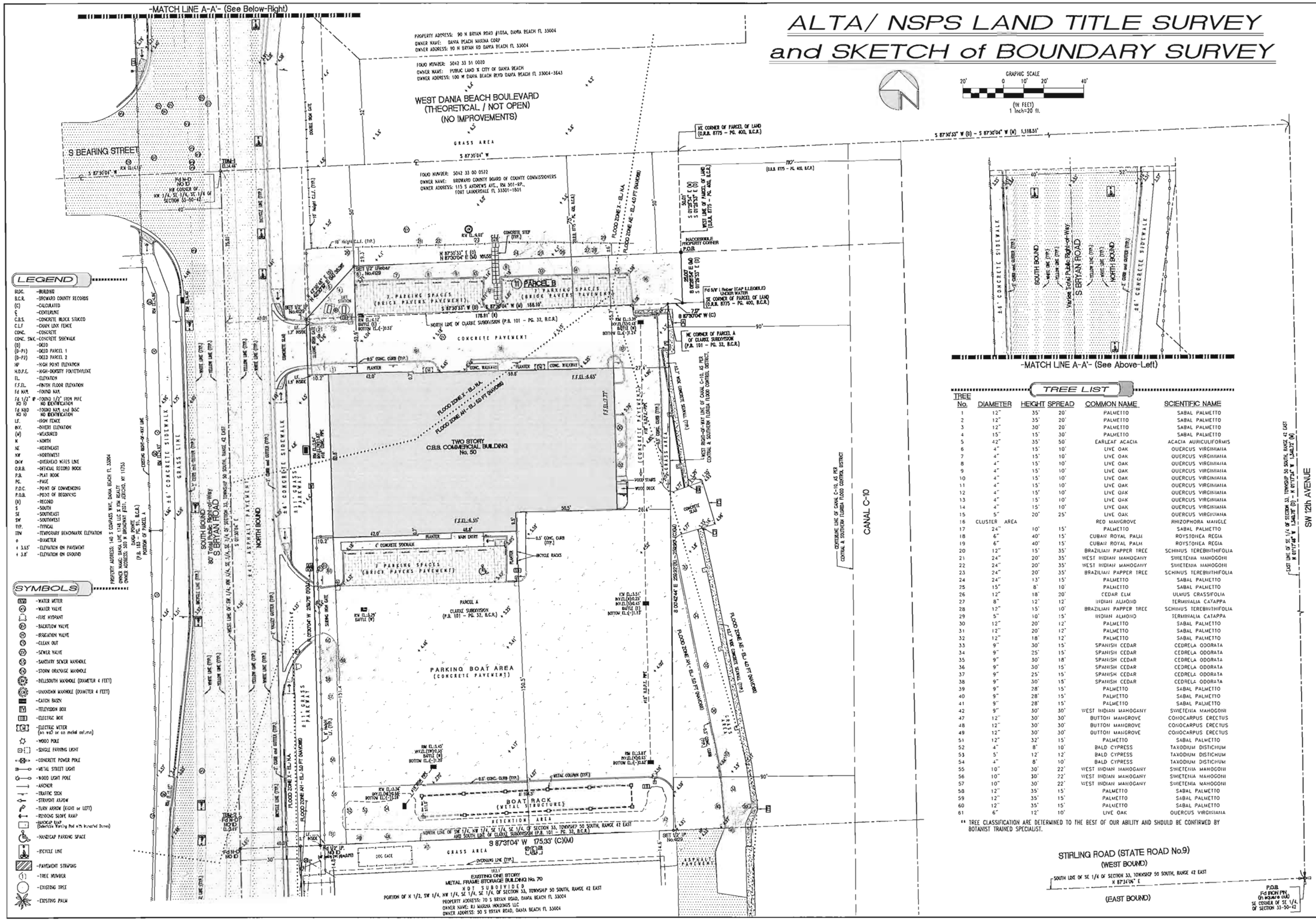
No.	DATE	DESCRIPTION	JOB No.	F.B./PG.

Project Name: ALTA-NSPS LAND TITLE SURVEY BOUNDARY SURVEY
Type of Project:
Project Address: 50 S BRYAN ROAD, DANIA BEACH, FL 33004
Folio No.(s): 5042 33 32 0010

Prepared for:
NV MARINA HOLDINGS LLC

Job No.:	01-2020-015
Field Crew:	RAC-RMB
Drawn By:	BM
Checked By:	G.C.
Field Date: January 16-18, 2020	
Date:	January 28, 2020
Sheet:	1 of 2

ALTA/ NSPS LAND TITLE SURVEY and SKETCH of BOUNDARY SURVEY



LEGEND

BLDG. -BUILDING
B.C.R. -BROWARD COUNTY RECORDS
(C) -CALCULATED
℄ -CENTERLINE
C.B.S. -CONCRETE BLOCK STUCCO
C.L.F. -CHAIN LINK FENCE
CONC. -CONCRETE
CONC. SWK. -CONCRETE SIDEWALK
(D) -DEED
(D-P1) -DEED PARCEL 1
(D-P2) -DEED PARCEL 2
HP -HIGH POINT ELEVATION
H.D.P.E. -HIGH-DENSITY POLYETHYLENE
EL. -ELEVATION
F.F.EL. -FINISH FLOOR ELEVATION
Fd N&R -FOUND NAIL
Fd 1/2" IP NO ID -FOUND 1/2" IRON PIPE NO IDENTIFICATION
Fd N&D NO ID -FOUND NAIL and DISC NO IDENTIFICATION
I.F. -IRON FENCE
INV. -INVERT ELEVATION
(M) -MEASURED
N -NORTH
NE -NORTHEAST
NW -NORTHWEST
OHW -OVERHEAD WIRES LINE
O.R.B. -OFFICIAL RECORD BOOK
P.B. -PLAT BOOK
PG. -PAGE
P.O.C. -POINT OF COMMENCING
P.O.B. -POINT OF BEGINNING
(R) -RECORD
S -SOUTH
SE -SOUTHEAST
SW -SOUTHWEST
TYP. -TYPICAL
TBM -TEMPORARY BENCHMARK ELEVATION
ø -DIAMETER
+ 3.55' -ELEVATION ON PAVEMENT
+ 3.8' -ELEVATION ON GROUND

PROPERTY ADDRESS: 140 S COMPASS WAY, DANIA BEACH FL 33004
OWNER NAME: DANIA LAW SUITES LLC
OWNER ADDRESS: 300 JERICHO QUADRANGLE, STE 270, JERICHO, NY 11753
DANA POINTE (P.B. 163 - PG. 91, B.C.R.) PORTION OF PARCEL A

SYMBOLS

-WATER METER
-WATER VALVE
-FIRE HYDRANT
-BACKFLOW VALVE
-IRRIGATION VALVE
-CLEAN OUT
-SEWER VALVE
-SANITARY SEWER MANHOLE
-STORM DRAINAGE MANHOLE
-BELLSOUTH MANHOLE (DIAMETER 4 FEET)
-UNKNOWN MANHOLE (DIAMETER 4 FEET)
-CATCH BASIN
-TELEVISION BOX
-ELECTRIC BOX
-ELECTRIC METER (on wall or on metal column)
-WOOD POLE
-SINGLE PARKING LIGHT
-CONCRETE POWER POLE
-METAL STREET LIGHT
-WOOD LIGHT POLE
-ANCHOR
-TRAFFIC SIGN
-STRAIGHT ARROW
-TURN ARROW (RIGHT or LEFT)
-RUNNING SLOPE RAMP
-WHEELCHAIR RAMP (Detectable Warning Pad with Truncated Domes)
-HANDICAP PARKING SPACE
-BICYCLE LINE
-PAVEMENT STRIPING
-TREE NUMBER
-EXISTING TREE
-EXISTING PALM

TREE LIST

TREE No.	DIAMETER	HEIGHT	SPREAD	COMMON NAME	SCIENTIFIC NAME
1	12"	35'	20'	PALMETTO	SABAL PALMETTO
2	12"	35'	20'	PALMETTO	SABAL PALMETTO
3	12"	30'	20'	PALMETTO	SABAL PALMETTO
4	15"	15'	30'	PALMETTO	SABAL PALMETTO
5	42"	35'	50'	EARLEAF ACACIA	ACACIA AURICULIFORMIS
6	4"	15'	10'	LIVE OAK	QUERCUS VIRGINIANIA
7	4"	15'	10'	LIVE OAK	QUERCUS VIRGINIANIA
8	4"	15'	10'	LIVE OAK	QUERCUS VIRGINIANIA
9	4"	15'	10'	LIVE OAK	QUERCUS VIRGINIANIA
10	4"	15'	10'	LIVE OAK	QUERCUS VIRGINIANIA
11	4"	15'	10'	LIVE OAK	QUERCUS VIRGINIANIA
12	4"	15'	10'	LIVE OAK	QUERCUS VIRGINIANIA
13	4"	15'	10'	LIVE OAK	QUERCUS VIRGINIANIA
14	4"	15'	10'	LIVE OAK	QUERCUS VIRGINIANIA
15	5"	20'	25'	LIVE OAK	QUERCUS VIRGINIANIA
16	CLUSTER AREA			RED MANGROVE	RHIZOPHORA MANGLE
17	24"	10'	15'	PALMETTO	SABAL PALMETTO
18	6"	40'	15'	CUBAN ROYAL PALM	ROYSTONEA REGIA
19	6"	40'	15'	CUBAN ROYAL PALM	ROYSTONEA REGIA
20	12"	15'	35'	BRAZILIAN PAPPER TREE	SCHINUS TEREBINTHIFOLIA
21	24"	20'	35'	WEST INDIAN MAHOGANY	SWIETENIA MAHOGONI
22	24"	20'	35'	WEST INDIAN MAHOGANY	SWIETENIA MAHOGONI
23	24"	20'	35'	BRAZILIAN PAPPER TREE	SCHINUS TEREBINTHIFOLIA
24	24"	13'	15'	PALMETTO	SABAL PALMETTO
25	15"	8'	10'	PALMETTO	SABAL PALMETTO
26	12"	18'	20'	CEDAR ELM	ULMUS CRASSIFOLIA
27	8"	12'	12'	INDIAN ALMOND	TERMINALIA CATAPPA
28	12"	15'	10'	BRAZILIAN PAPPER TREE	SCHINUS TEREBINTHIFOLIA
29	5"	10'	15'	INDIAN ALMOND	TERMINALIA CATAPPA
30	12"	20'	12'	PALMETTO	SABAL PALMETTO
31	12"	20'	12'	PALMETTO	SABAL PALMETTO
32	12"	18'	12'	PALMETTO	SABAL PALMETTO
33	9"	30'	15'	SPANISH CEDAR	CEDRELA ODORATA
34	9"	25'	15'	SPANISH CEDAR	CEDRELA ODORATA
35	9"	30'	18'	SPANISH CEDAR	CEDRELA ODORATA
36	9"	30'	15'	SPANISH CEDAR	CEDRELA ODORATA
37	9"	25'	15'	SPANISH CEDAR	CEDRELA ODORATA
38	9"	30'	15'	SPANISH CEDAR	CEDRELA ODORATA
39	9"	28'	15'	PALMETTO	SABAL PALMETTO
40	9"	28'	15'	PALMETTO	SABAL PALMETTO
41	9"	28'	15'	PALMETTO	SABAL PALMETTO
42	9"	30'	30'	WEST INDIAN MAHOGANY	SWIETENIA MAHOGONI
47	12"	30'	30'	BUTTON MANGROVE	CONOCARPUS ERECTUS
48	12"	30'	30'	BUTTON MANGROVE	CONOCARPUS ERECTUS
49	12"	30'	30'	BUTTON MANGROVE	CONOCARPUS ERECTUS
51	12"	32'	15'	PALMETTO	SABAL PALMETTO
52	4"	8'	10'	BALD CYPRESS	TAXODIUM DISTICHUM
53	5'	12'	12'	BALD CYPRESS	TAXODIUM DISTICHUM
54	4"	8'	10'	BALD CYPRESS	TAXODIUM DISTICHUM
55	10"	30'	22'	WEST INDIAN MAHOGANY	SWIETENIA MAHOGONI
56	10"	30'	22'	WEST INDIAN MAHOGANY	SWIETENIA MAHOGONI
57	10"	30'	22'	WEST INDIAN MAHOGANY	SWIETENIA MAHOGONI
58	12"	35'	15'	PALMETTO	SABAL PALMETTO
59	12"	35'	15'	PALMETTO	SABAL PALMETTO
60	12"	35'	15'	PALMETTO	SABAL PALMETTO
61	6"	12'	10'	LIVE OAK	QUERCUS VIRGINIANA

** TREE CLASSIFICATION ARE DETERMINED TO THE BEST OF OUR ABILITY AND SHOULD BE CONFIRMED BY BOTANIST TRAINED SPECIALIST.

GARY B. CASTEL
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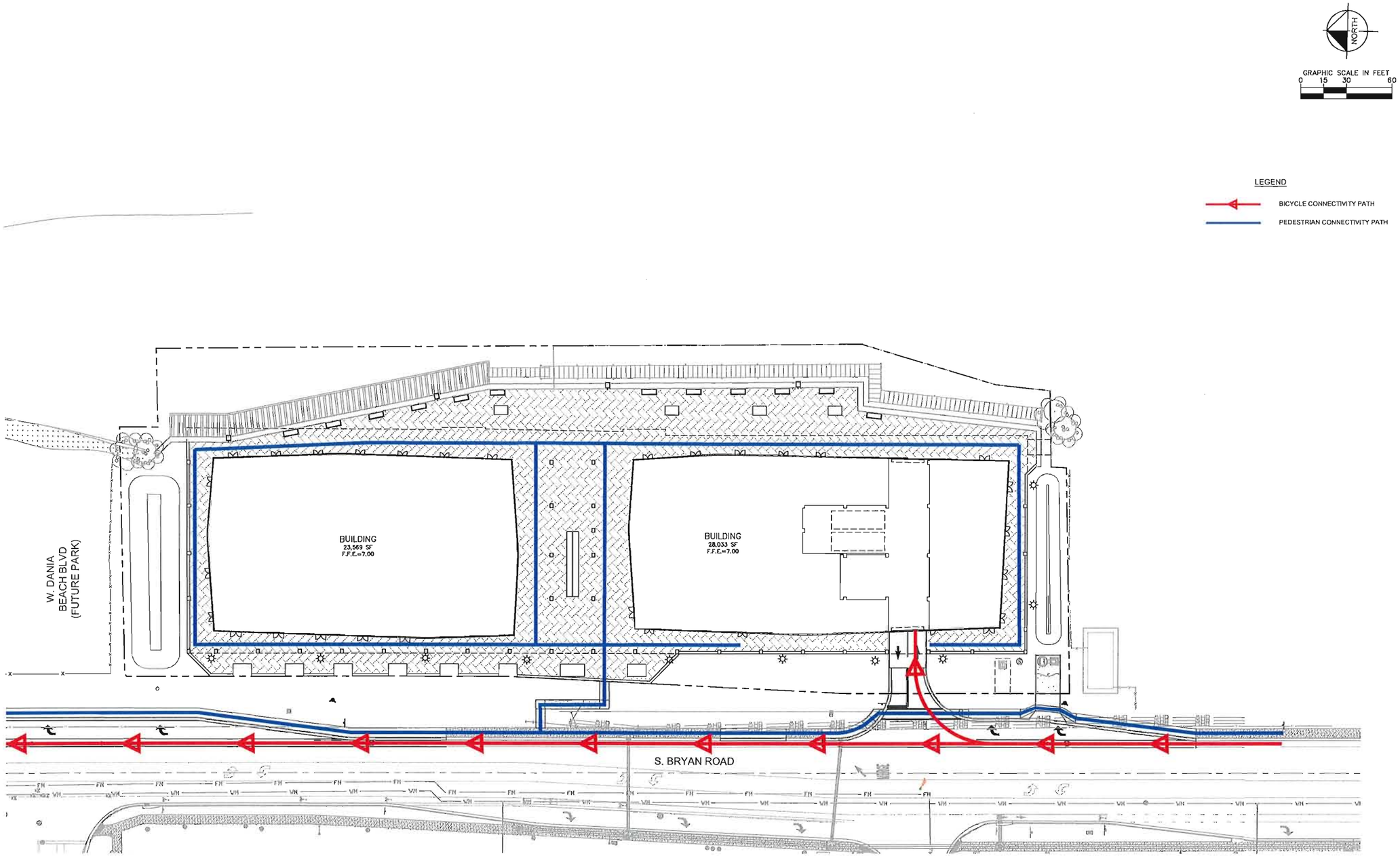
Sheet:	2 of 2



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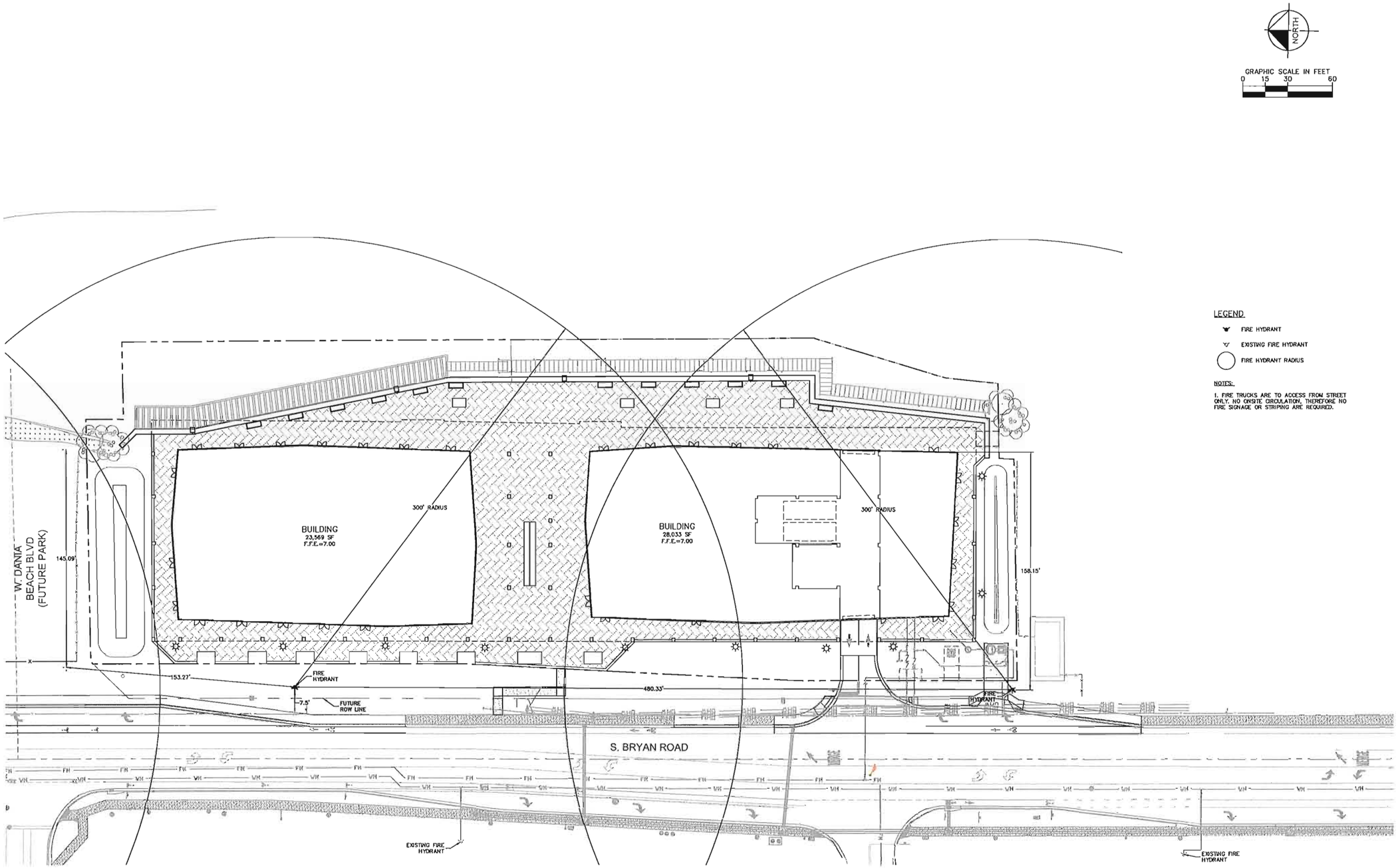
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

70 WAVE

BICYCLE, PEDESTRIAN, AND TRANSIT CONNECTIVITY EXHIBIT

SHEET NUMBER

CE-1



LEGEND

- FIRE HYDRANT
- EXISTING FIRE HYDRANT
- FIRE HYDRANT RADIUS

NOTES:

1. FIRE TRUCKS ARE TO ACCESS FROM STREET ONLY. NO ONSITE CIRCULATION, THEREFORE NO FIRE SIGNAGE OR STRIPING ARE REQUIRED.

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70 WAVE

FIRE HYDRANT EXHIBIT

SHEET NUMBER

FH-1

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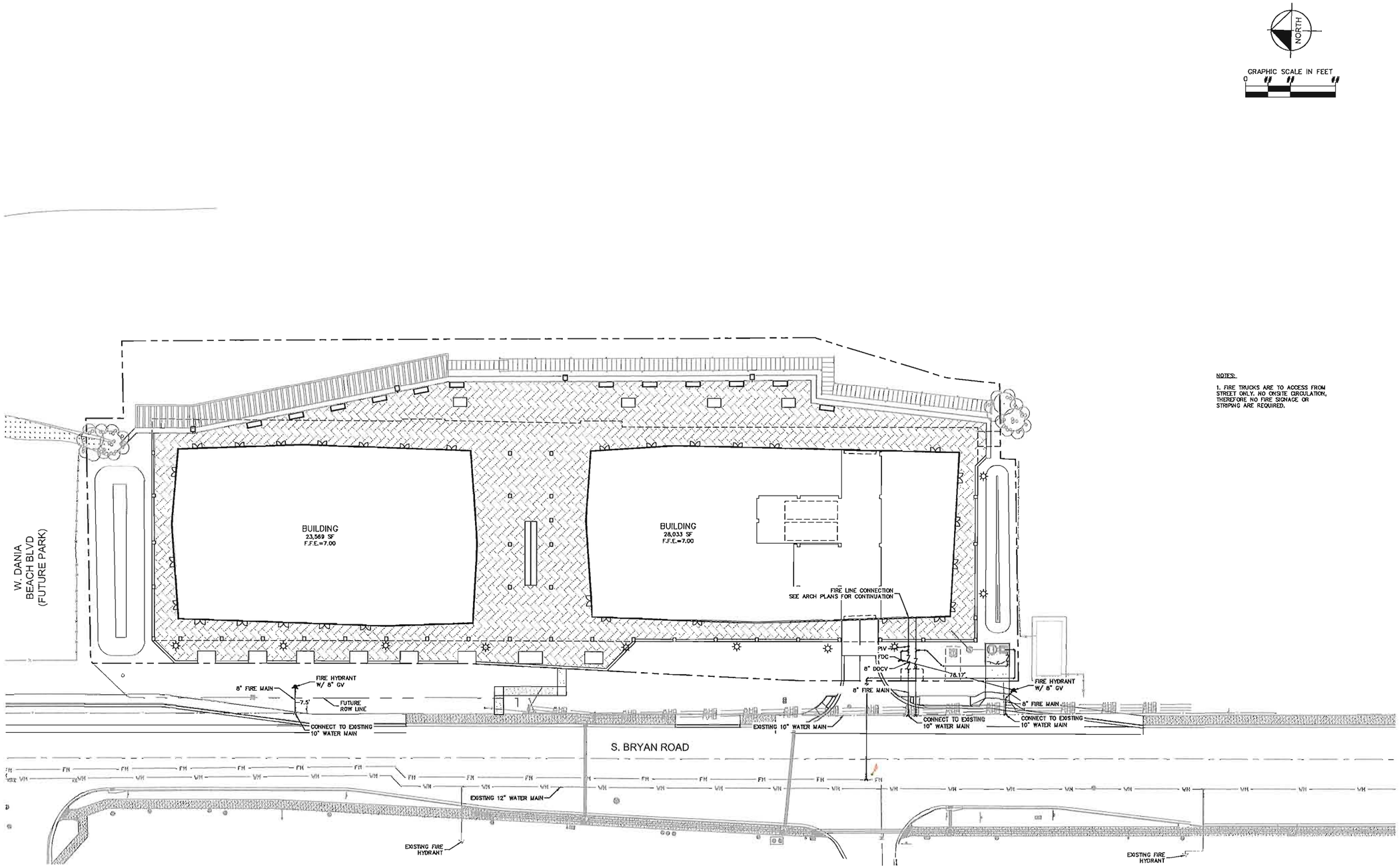

NOTES:

1. FIRE TRUCKS ARE TO ACCESS FROM STREET ONLY. NO ONSITE CIRCULATION, THEREFORE NO FIRE SIGNAGE OR STRIPING ARE REQUIRED.

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70-WAVE

FIRE PROTECTION EXHIBIT

SHEET NUMBER

FP-1

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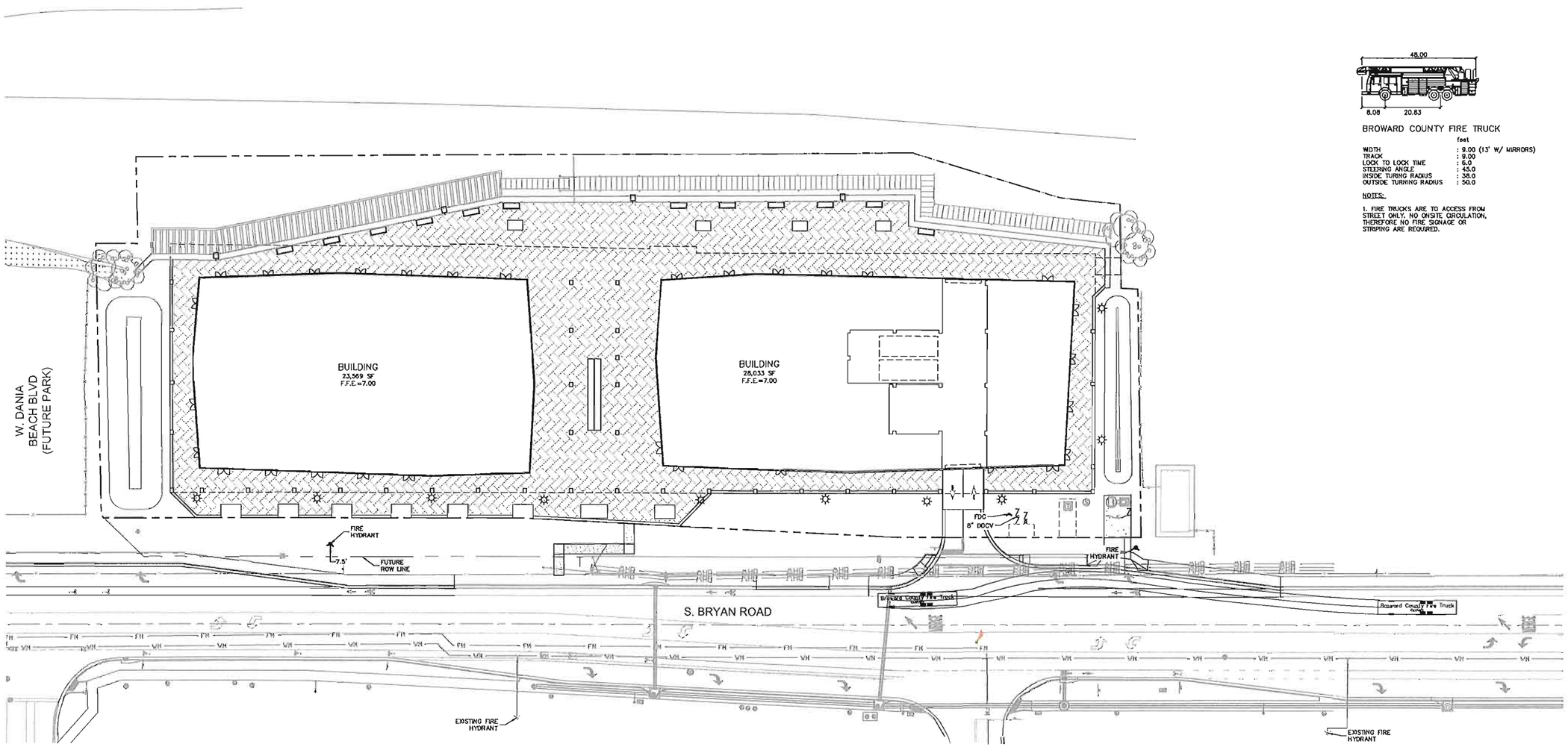

BROWARD COUNTY FIRE TRUCK

	feet
WIDTH	: 9.00 (13' W/ MIRRORS)
TRACK	: 9.00
LOCK TO LOCK TIME	: 6.0
STEERING ANGLE	: 45.0
INSIDE TURNING RADIUS	: 38.0
OUTSIDE TURNING RADIUS	: 50.0

NOTES:

1. FIRE TRUCKS ARE TO ACCESS FROM STREET ONLY. NO ONSITE CIRCULATION, THEREFORE NO FIRE SIGNAGE OR STRIPING ARE REQUIRED.

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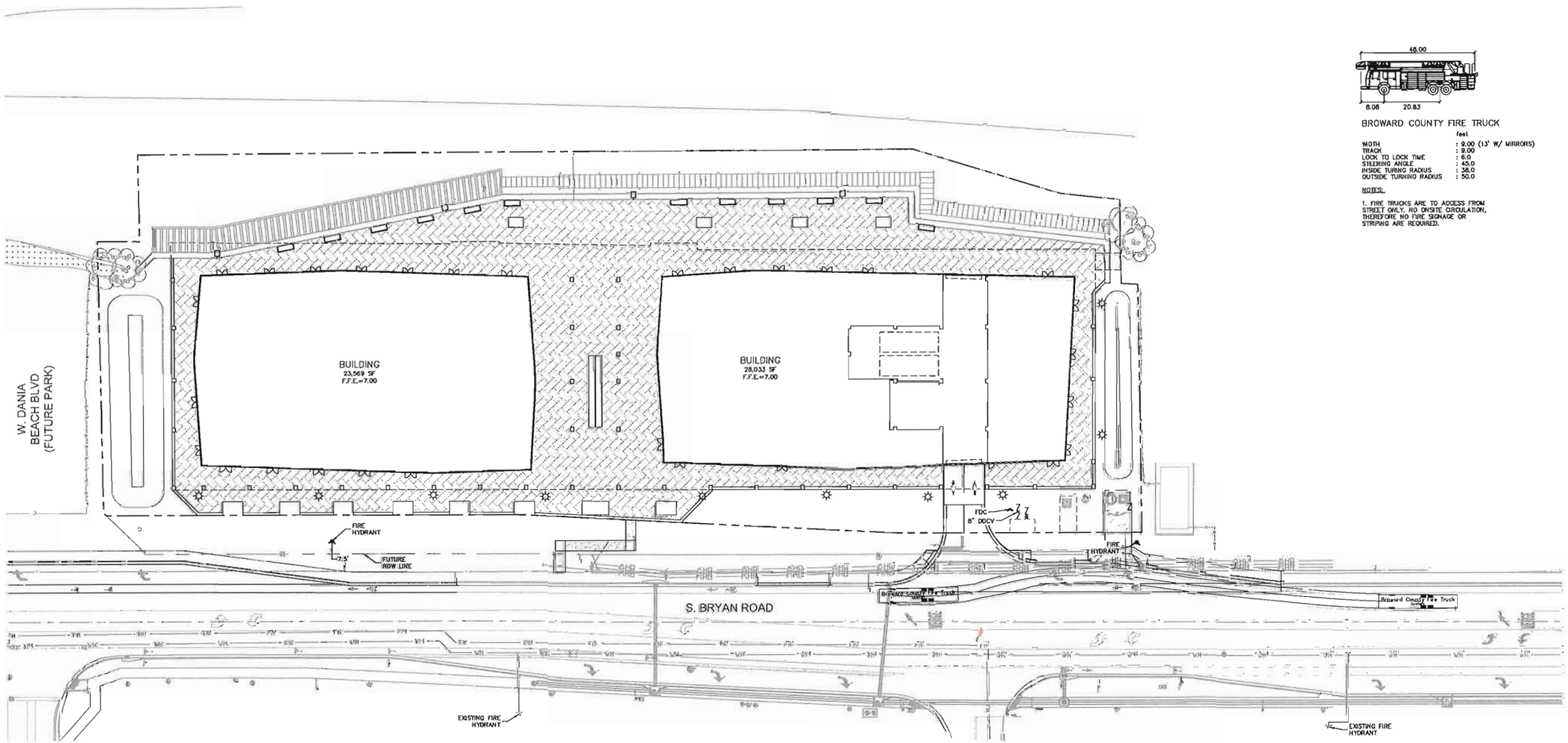
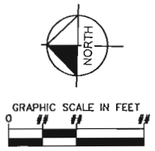
70 WAVE

FIRE TRUCK EXHIBIT

SHEET NUMBER

FT-1





BROWARD COUNTY FIRE TRUCK

	feet
WIDTH	: 9.00 (13' W/ MIRRORS)
TRACK	: 8.00
LOCK TO LOCK TIME	: 6.0
STEERING ANGLE	: 45.0
INSIDE TURNING RADIUS	: 36.0
OUTSIDE TURNING RADIUS	: 50.0

NOTES:

1. FIRE TRUCKS ARE TO ACCESS FROM STREET ONLY. NO ONSITE CIRCULATION, THEREFORE NO FIRE SIGNAGE OR STRIPING ARE REQUIRED.

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FIRE TRUCK EXHIBIT

SHEET NUMBER

FT-1

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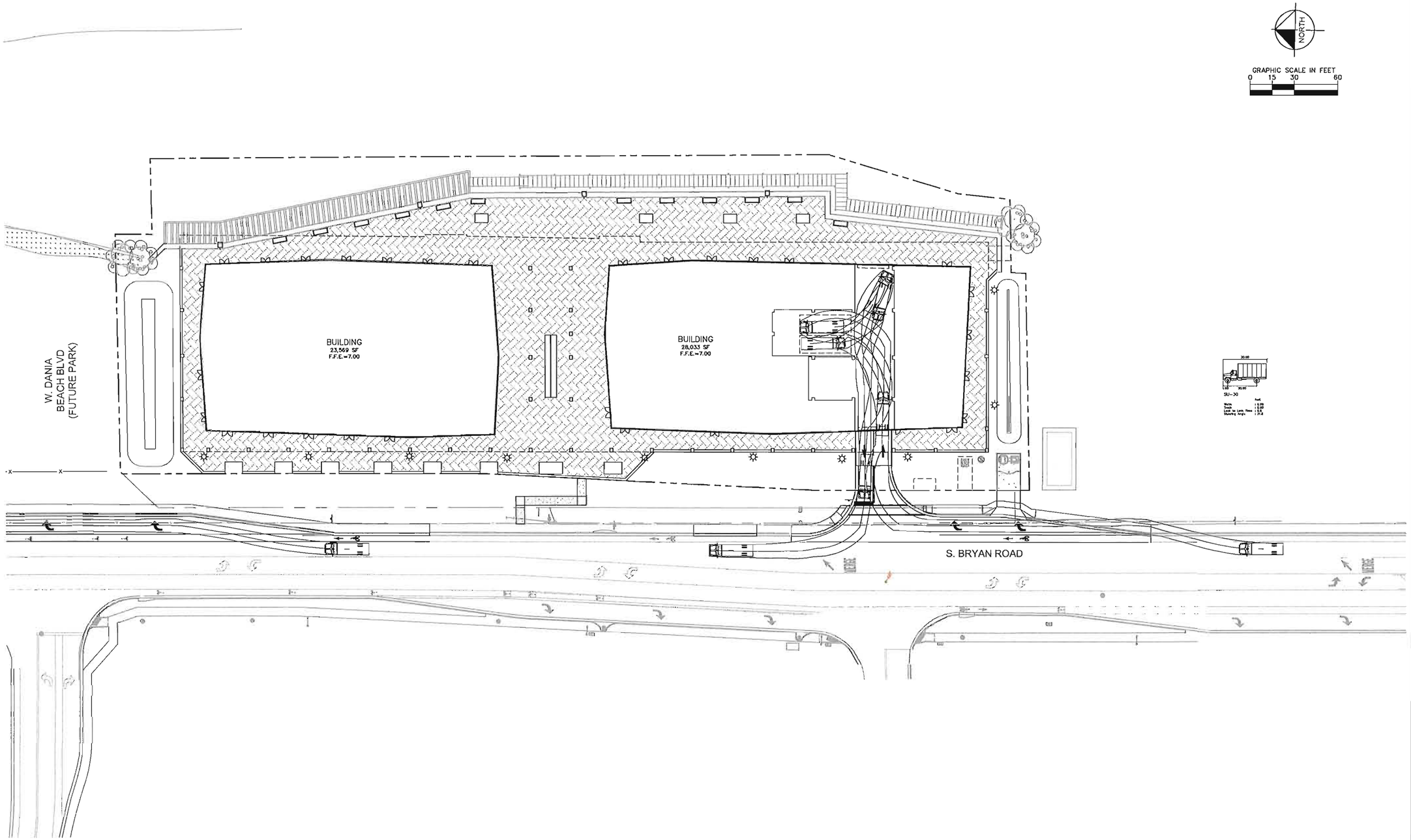

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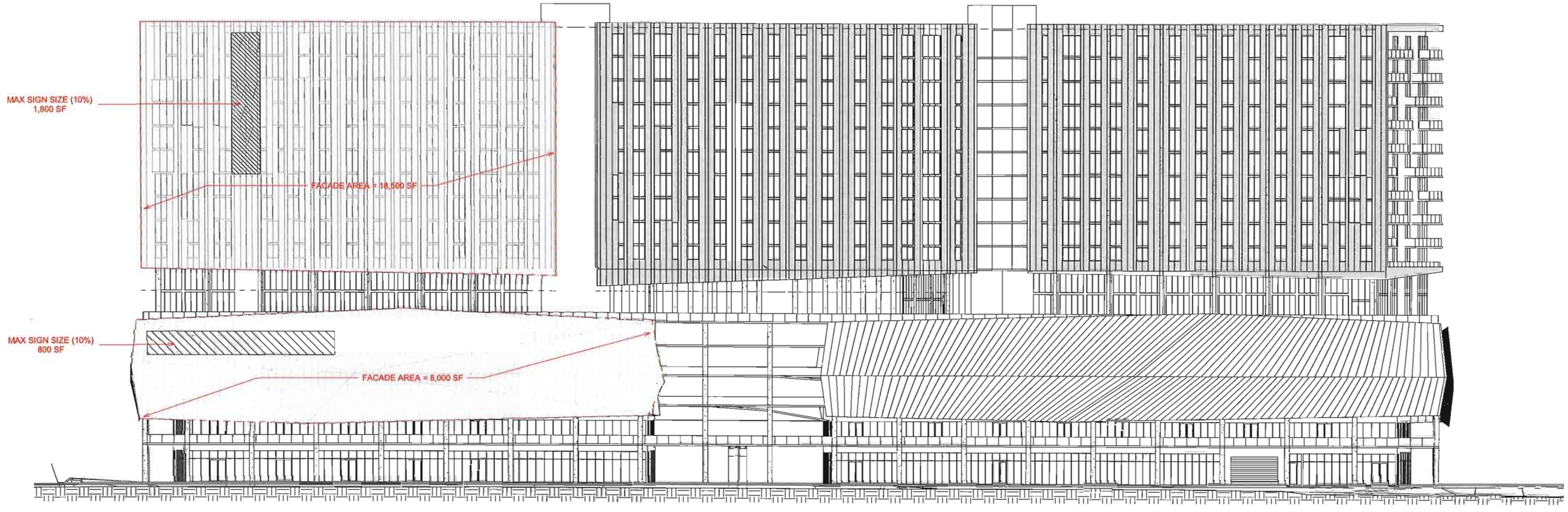
70 WAVE

TRUCK ROUTING EXHIBIT

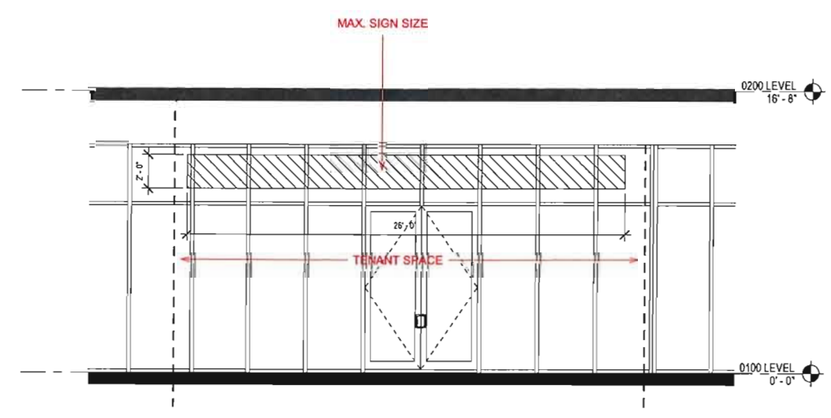
SHEET NUMBER

TR-1



1 SIGN BUILDING IDENTIFICATION
1" = 20'-0"

BUILDING SIGNAGE:
ALUMINUM AND ACRYLIC BACKLIT CHANNEL LETTERS TO COMPLY WITH MAX SQUARED FOOTAGE ALLOWED. SURFACE MOUNTED WITH BRACKETS RETURN DEEP SIZE MAX 6".



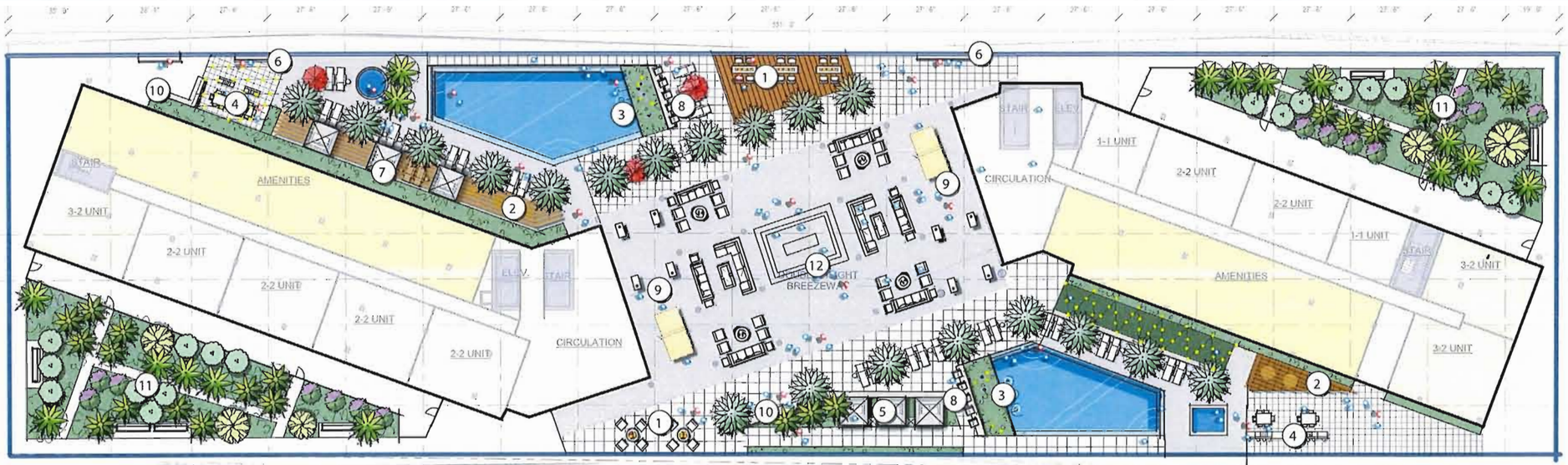
3 SIGN RETAIL SIGNAGE
1/4" = 1'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

SIGN
07-03-20



LEGEND

1. FIRE PIT
2. EGG HAMMOCKS - SUSPENDED FROM TRELLIS
3. WATER SPITTERS + LANDSCAPE
4. CONCRETE GRILLS
5. DAYBEDS + PLANTERS
6. DRINK RAILS
7. TUCCI CABANA
8. BARSTOOL SEATING
9. GAMES CENTRAL
10. SEAT WALLS (24" HEIGHT)
11. GARDEN WITH SEATING
12. BAR AREA

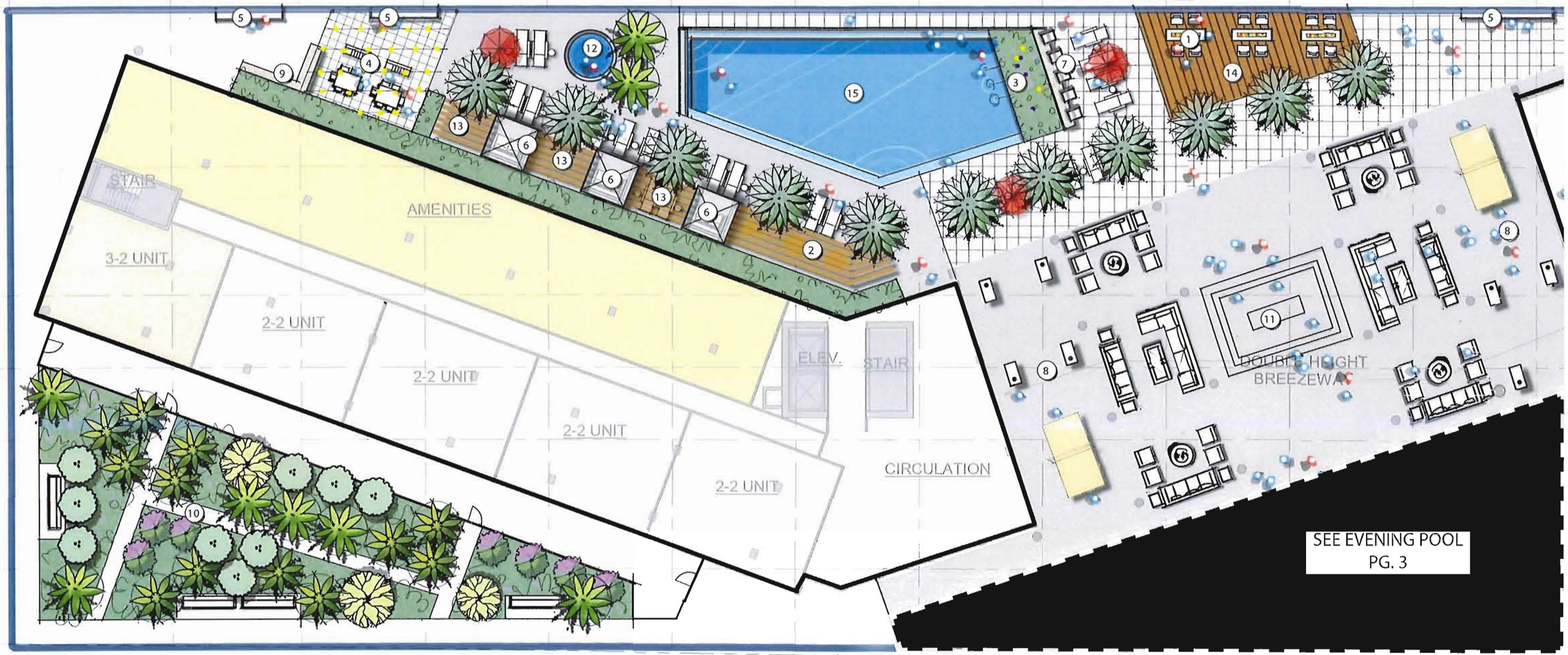
PLAN RENDERING

AMENTITY DECK CONCEPT

DANIA BEACH, FL

Kimley»Horn

JUNE, 2020



PLAN RENDERING - MORNING POOL

SCALE: 1"=20'-0"

0 5' 10' 20' 40'

LEGEND

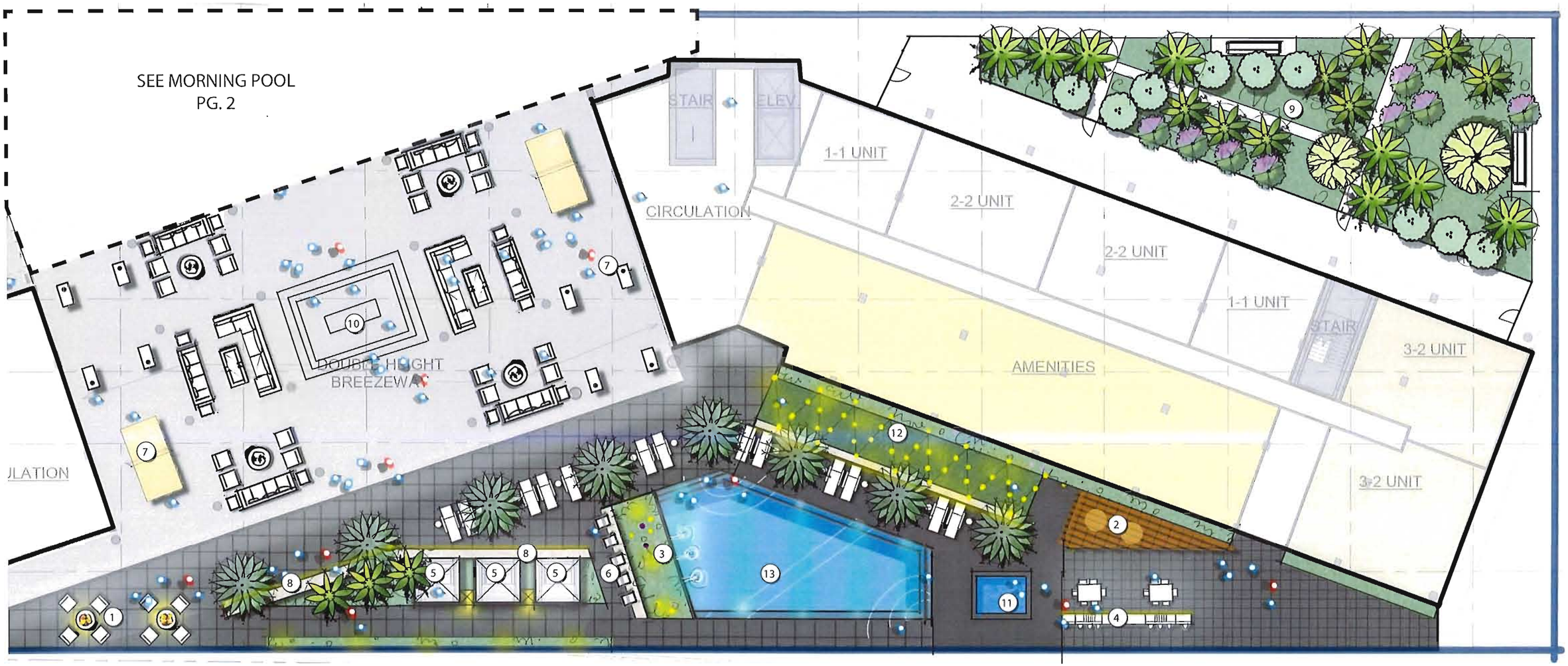
1. FIRE PIT WITH MOVEABLE SEATING
2. EGG HAMMOCKS - SUSPENDED FROM TRELLIS
3. WATER SPITTERS + LANDSCAPE
4. CONCRETE GRILLS
5. DRINK RAILS
6. TUCCI CABANA
7. BARSTOOL SEATING
8. GAMES CENTRAL
9. SEAT WALLS (24" HEIGHT), TRANSITION AREA
10. GARDEN WITH SEATING
11. BAR AREA
12. RAISED COLD PLUNGE
13. TRELLIS + SEATING AREA
14. PERFORMANCE STAGE
15. MORNING POOL (+/-2,050 SF)

AMENTITY DECK CONCEPT

DANIA BEACH, FL

Kimley»Horn

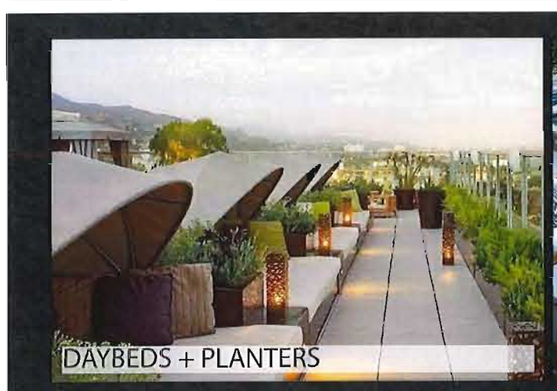
JUNE, 2020



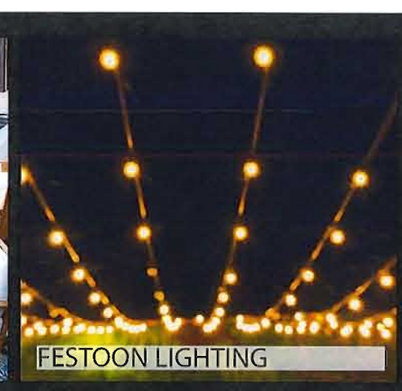
PLAN RENDERING - EVENING POOL (NIGHT)

SCALE: 1"=20'-0"

0 5' 10' 20' 40'


DAYBEDS + PLANTERS

FIRE PIT AREA


FESTOON LIGHTING

JACUZZI

LEGEND

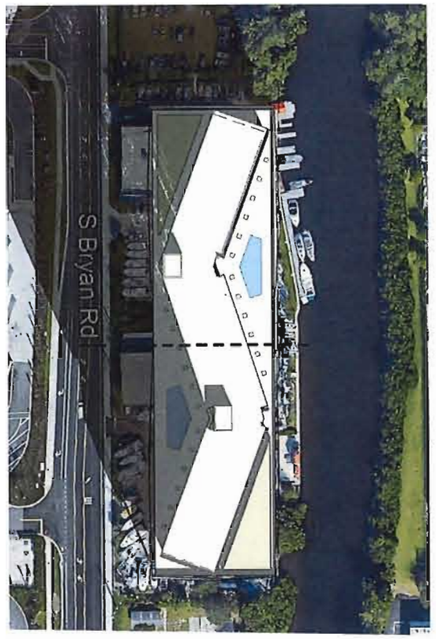
1. FIRE PIT WITH MOVEABLE SEATING
2. EGG HAMMOCKS - SUSPENDED FROM TRELLIS
3. WATER SPITTERS + LANDSCAPE
4. CONCRETE GRILLS
5. DAYBEDS + PLANTERS
6. BARSTOOL SEATING
7. GAMES CENTRAL
8. SEAT WALLS (24" HEIGHT), TRANSITION AREA
9. GARDEN WITH SEATING
10. BAR AREA
11. JACUZZI
12. BOCCE COURT
13. EVENING POOL (+/-1,450 SF)

AMENTITY DECK CONCEPT

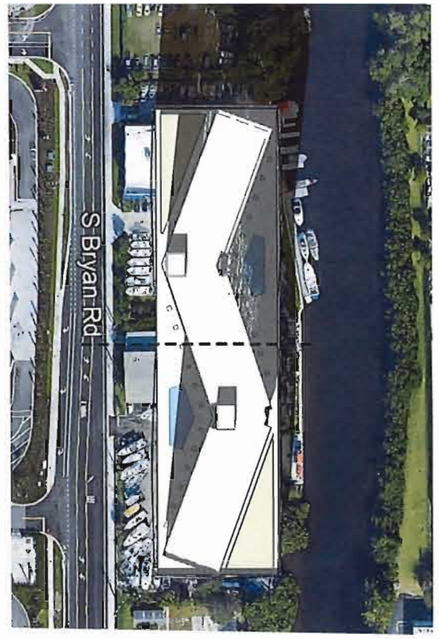
DANIA BEACH, FL

Kimley»Horn

JUNE, 2020



1 SS-1.00 SB - DEC 21 10 AM SOUTH
1" = 80'-0"



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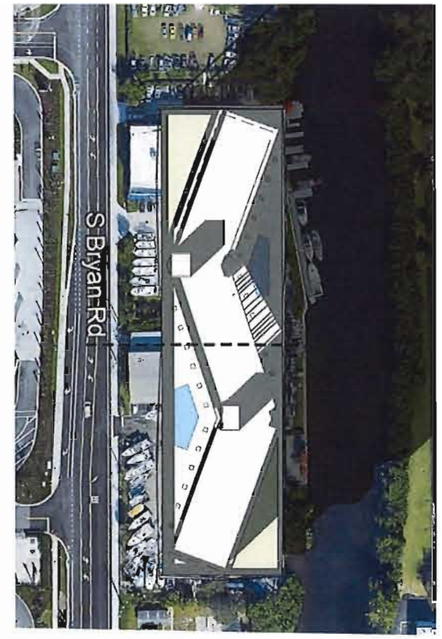
1" = 80'-0"



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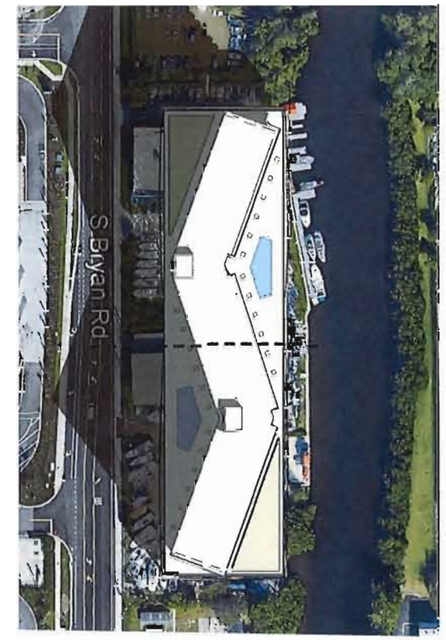

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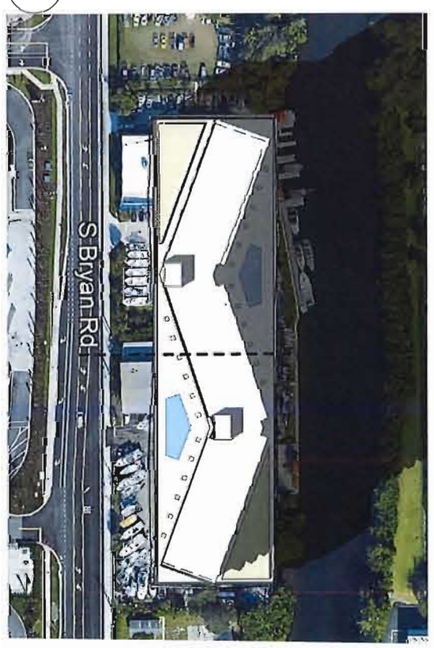
1" = 80'-0"

5 SS-1.00 SB - MAR 21 12 PM SOUTH
1" = 80'-0"



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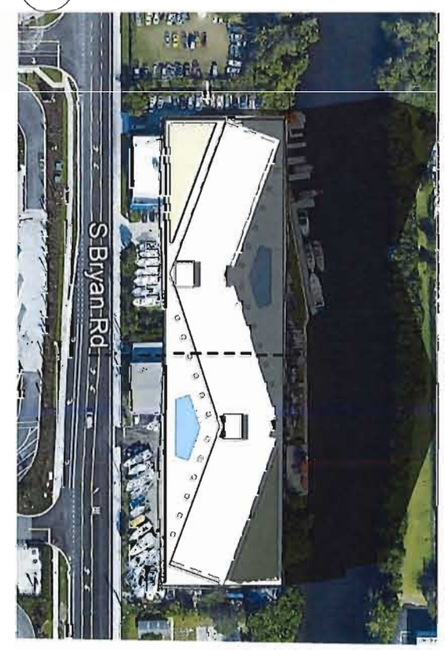
1" = 80'-0"

7 SS-1.00 SB - JUN 21 10 AM SOUTH
1" = 80'-0"

8 SS-1.00 SB - JUN 21 12 PM SOUTH
1" = 80'-0"



9 SS-1.00 SB - JUN 21 3 PM SOUTH
1" = 80'-0"

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

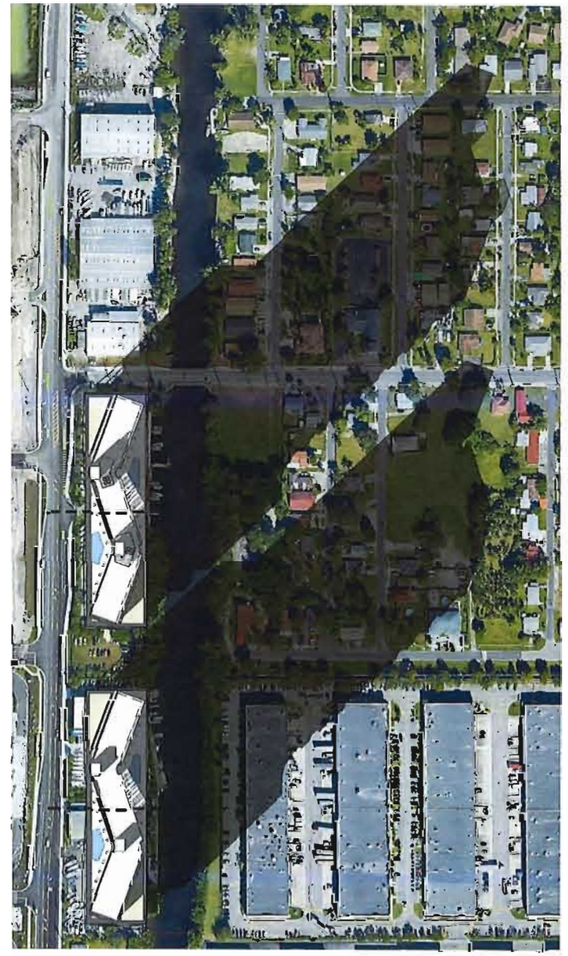
PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE
DANIA BEACH, FL

SS-1.00
08-06-20

1 SS-1.01 SB - DEC 21 10 AM
1" = 160'-0"

0 160' 320' 640'



2 SS-1.01 SB - DEC 21 3 PM
1" = 160'-0"

0 160' 320' 640'

3 SS-1.01 SB - MAR 21 10 AM
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0 160' 320' 640'

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE

DANIA BEACH, FL

SS-1.01

08-06-20

NICHOLS BROSCH WURST WOLFE & ASSOCIATES, INC.

PATRICK BUSTEED
ARCHITECT
AR92081

70 WAVE

DANIA BEACH, FL

R-1.02

08-06-20

BCHCED REF NO. XXXXXXXXXX

CONSTRUCTION PLANS
FOR
DANIA BEACH MARINA
LOCATED IN
CITY OF DANIA BEACH, FLORIDA

DANIA BEACH MARINA CORPORATION
90 N BRYAN ROAD
DANIA BEACH, FL 33004

OFF-SITE ROADWAY CONTRACT PLANS

BRIAN ROAD ROADWAY IMPROVEMENT PROJECT

INDEX OF REVIEW PLANS

SHEET NO.	SHEET DESCRIPTION
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3	GENERAL NOTES
4	TYPICAL SECTION
5	PROJECT LAYOUT
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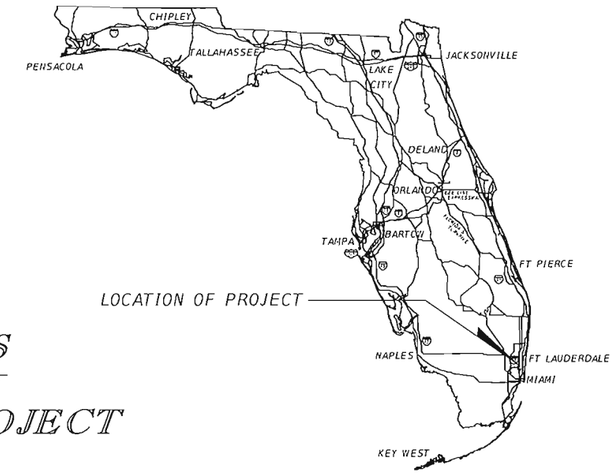
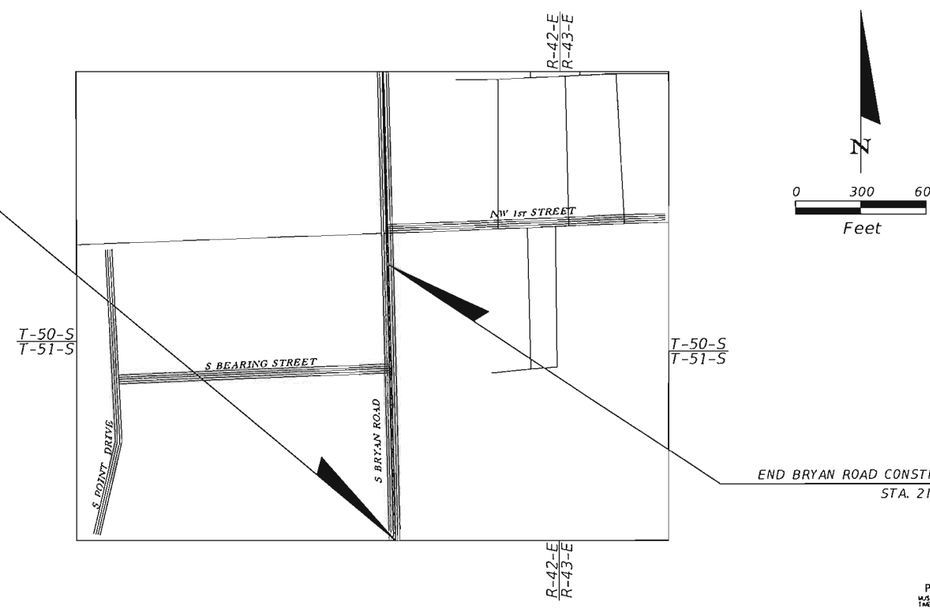
29-30	SOUTH BRYAN ROAD SIGNING AND MARKING
31	SIGNING AND MARKING DETAILS
32	EROSION CONTROL GENERAL NOTES
33-34	SOUTH BRYAN ROAD EROSION CONTROL
35	TRAFFIC CONTROL GENERAL NOTES





LIST OF CONTACTS

ELECTRIC
FLORIDA POWER & LIGHT
CINDY RODREGIEZ
4000 DAVIE ROAD EXTENSTION
HOLLYWOOD, FL 33024
(954) 442-6361

NATURAL GAS
TECO PEOPLES GAS
DAVID RIVERA
5101 NW 21ST AVE SUITE 460
FT. LAUDERDALE, FL 33309
(954) 453-0794

WATER
CITY OF DANIA BEACH
RONNIE NAVARRO
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-3615

CABLE
COMCAST CABLE
LEONARD MAXWELL-NEWBOLD
2601 S.W. 145TH AVE
MIRAMAR, FL 33027
(954) 447-8405

BUILDING DIVISION
CITY OF DANIA BEACH
ELEANOR NORENA
100 WEST DANIA BEACH BOULEVARD
DANIA BEACH, FL 33004
(954) 924-6805 EXT. 3645

TELEPHONE
AT&T
EDUARDO IBARRA
8601 W. SUNRISE BLVD.
PLANTATION, FL 33322
(954) 476-2734

SANITARY SEWER
CITY OF DANIA BEACH
RONNIE NAVARRO
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-3615

STORMWATER
BROWARD COUNTY
SURFACE WATER MANAGEMENT
1 N. UNVIERSITY DRIVE, 201A
PLANTATION, FL 33324
(954) 519-1473

FDOT
DISTRICT 4 PERMITTING
ROGER LEMIEUX
REFERENCE PROJECT NO. 227774-1-52-01
3400 WEST COMMERCIAL BLVD.
FORT LAUDERDALE, FL 33309
(954) 777-4372

ENGINEERING
CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT
RONNIE NAVARRO
1201 STIRLING ROAD
DANIA BEACH, FL 33004
(954) 924-6805

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
ERIC J. KLEIER, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100

PLANS PREPARED BY:
Kimley»Horn
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
PROJECT NUMBER: 147706000
CERTIFICATE OF AUTHORIZATION: 00000696

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:
FY 2020-21 DESIGN STANDARDS
AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2020
AS AMENDED BY CONTRACT DOCUMENTS.
BROWARD COUNTY MINIMUM STANDARDS
DATED OCTOBER 25, 2005.

THE PUBLIC ROADWAYS INDICATED IN THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH FDOT "DESIGN STANDARDS."

SITE PLAN SUBMITTAL

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit for Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction in The Public Right of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
NOTE: THIS PERMIT EXPIRES 90 DAYS FROM ISSUANCE IF PAVEMENT NOT PLACED

ROADWAY PLANS
ENGINEER OF RECORD: ERIC J. KLEIER

P.E. NO.: 64076

ERIC JOSEPH KLEIER
LICENSE No. 64076
STATE OF Florida
PROFESSIONAL ENGINEER

Digitally signed by Eric J Kleier
DN: cn=Eric J Kleier, c=US, o=KIMLEY-HORN AND ASSOCIATES, ou=A01410C00000171745F5B6D000005B3, email=eric.kleier@kimley-horn.com
Date: 2020.08.04 17:12:34 -04'00'

FISCAL YEAR	SHEET NO.
	1

c:\pwworking\tha\pwprod\matt.terette\dms68917\KEYSRD01.DGN

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ERIC JOSEPH KLEIER
LICENSE
No. 64076
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by Eric J Kleier
DN: cn=Eric J Kleier, c=US, o=KIMLEY-HORN AND ASSOCIATES, ou=A01410C000000171745F5B6D000005B3, email=eric.kleier@kimley-horn.com
Date: 2020.08.04 17:11:12 -04'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH 61G15-23.004. F.A.C.

SW 52ND AND WASHINGTON STREET
INTERSECTION IMPROVEMENTS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES
4	TYPICAL SECTION
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6-8	SOUTH BRYAN ROAD PLAN SHEETS
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35	TRAFFIC CONTROL GENERAL NOTES

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SIGNATURE SHEET

SHEET NO. 2

GENERAL NOTES

1. GOVERNING SPECIFICATIONS: STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 AND BROWARD COUNTY MINIMUM STANDARDS DATED OCTOBER 25, 2005.
2. CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST REVISION.
3. ALL STATIONS AND OFFSETS ARE REFERENCED TO BASELINE OF CONSTRUCTION.
4. THE FINISHED ROADWAY SECTION SHALL BE SMOOTH AND SET TO DRAIN
5. EXISTING SECTION CORNERS AND 1/4 SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE REFERENCED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION USING A REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA.
6. ANY MAILBOX WITHIN THE LIMITS OF CONSTRUCTION IS TO BE TAKEN DOWN AND RESET IN ACCORDANCE WITH POSTAL REQUIREMENTS BY THE CONTRACTOR
7. B.M. DATA SHOWN IS NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88.
8. ANY NAVD 1988 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, NOTIFY:

   GEODETIC INFORMATION CENTER
   ATTN: MARK MAINTENANCE SECTION N/CG-162
   6001 EXECUTIVE BLVD.
   ROCKVILLE, MARYLAND 20852
   TELEPHONE NO. (301) 443-8319

9. THE EXACT LOCATIONS OF PROPOSED SWALES, BACK SLOPE LINES AND LIMITS OF CONSTRUCTION WILL BE IN ACCORDANCE WITH THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
10. CONTRACTOR SHALL ADJUST ALL UTILITY LIDS AND COVERS TO FINISHED GRADE AS REQUIRED.
11. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL SHALL BE REMOVED UNLESS OTHERWISE CALLED OUT TO REMAIN. STRUCTURES TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
12. ALL AREAS REQUIRING SOD AND ALL DISTURBED R/W SHALL BE SODDED WITH BAHIA SOD. SODDING SHALL BE IN ACCORDANCE WITH SECTION 575
13. THE CONTRACTOR WILL RESTORE ALL AREAS DISTURBED BY THIS CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN, THAT NOW EXISTING.
14. ITEMS IN CONFLICT WITH DESIGN SUCH AS EXISTING CURBS AND GUTTERS, SIDEWALKS, DRAINAGE STRUCTURES, PAVEMENT AND BASE AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT THE CONTRACTORS EXPENSE UNLESS THE ITEMS ARE TO BE REUSED ON THE PROJECT.
15. THE MAINTENANCE OF TRAFFIC FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE APPLICABLE FDOT INDEX NUMBERS (600 SERIES) AND THESE DOCUMENTS. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. DEPARTMENT OF TRANSPORTATION, FHWA), SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS. PEDESTRIAN AND VEHICULAR TRAFFIC SHALL BE MAINTAINED AND PROTECTED AT ALL TIMES
16. IF THE PERMITTED WORK IS ON A ROADWAY THAT HAS BEEN SELECTED AS A HURRICANE OR DISASTER EVACUATION ROUTE, THE APPLICANT, AT THE PRE-CONSTRUCTION CONFERENCE IS REQUIRED TO PRESENT, AS PART OF THE WORK PLAN, AN EMERGENCY FUNCTIONAL RESTORATION PLAN TO ADDRESS EVENTUALITIES SUCH AS HURRICANES.
17. FLAGGERS MUST BE PRESENT DURING THE INGRESS AND EGRESS OF CONSTRUCTION VEHICLES TO AND FROM THE PROJECT SITE. WARNING SIGNS MUST BE ERECTED ADVISING MOTORIST OF TRUCKS ENTERING THE HIGHWAY
18. CONTRACTOR SHALL CONTACT THE LOCAL MEDIA A WEEK PRIOR TO ANY LANE CLOSURES ON THE COUNTY ROAD SYSTEM AS IT WILL OCCUR DURING PEAK HOURS OR OVER THE SPAN OF MORE THAN ONE DAY.

   CONTACT. BROWARD COUNTY
   TRAFFIC ENGINEERING DEPARTMENT

19. ALL NOT LANE CLOSURES SIGNS SHALL BE COVERED WHEN LANES ARE NOT CLOSED. NO LANES ARE TO BE CLOSED BEFORE 9:00 AM AND ALL LANES ARE TO BE OPENED BY 4:00 PM.
20. AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY OF THE COUNTY ROAD SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER WALL AT THE CONTRACTORS EXPENSE.
21. THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY; THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFTER IDENTIFICATION OF CONFLICT BY CONTRACTOR. CONTRACTOR SHALL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION
22. THE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR 2 BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT COMPANY REPRESENTATIVES CAN BE PRESENT.
23. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES, UNDERGROUND UTILITIES, OR NEAR CANAL BANKS.
24. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES
25. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
26. THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) FOR FIELD LOCATIONS 2 BUSINESS DAYS BEFORE DIGGING NEAR UNDERGROUND UTILITIES.
27. CONTRACTOR TO ENSURE THAT ALL PROPOSED UTILITY CONSTRUCTION IS IN FULL COMPLIANCE WITH THE MOST CURRENT CITY OF DANIA BEACH UTILITY DETAILS.
28. DRIVEWAYS THAT ARE DISTURBED ARE TO BE RECONSTRUCTED TO THEIR ORIGINAL OR BETTER CONDITIONS, UNLESS OTHERWISE STATED ON PLANS.
29. STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY WITHOUT APPROVAL FROM THE OWNER.
30. TURNOUTS (DRIVEWAYS) TO BE CONSTRUCTED AS PER FDOT INDEX 515.
31. ALL SIDEWALKS SHALL HAVE BROOM FINISH AND ALL SIDEWALK JOINTS TO BE INSTALLED PER DETAILS ON FDOT INDEX 310 FOR ALL SIDEWALKS. ALL JOINTS SHALL BE SAWCUT AS PER FDOT STANDARDS.
32. NO EXISTING BASE MATERIAL REMOVED IN EXCAVATION SHALL BE REUSED AS PROPOSED BASE MATERIAL.
33. REMOVE ALL MUCK, OVERBURDEN, AND ROOT MATERIAL WITH IN THE LIMITS OF CLEARING AND GRUBBING. BACKFILL TO THE REQUIRED SUBGRADE WITH CLEAN, GRANULAR MATERIAL IN MAXIMUM 6" LIFTS COMPACTED TO 100% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T99-C SPECIFICATIONS, AND EACH LIFT TESTED BEFORE PLACING NEXT LIFT. COST OF MUCK REMOVAL TO INCLUDE REPLACEMENT.
34. PER BCMS, LATEST EDITION, *EMBANKMENTS*: ALL MATERIAL SHALL BE GRANULAR, AND WELL-GRADED, AND SHALL HAVE A MINIMUM LOAD BEARING RATING (LBR) OF 40. ALL STRIPPED ASPHALT AND VEGETATION SHALL BE REMOVED FROM BACKFILL MATERIAL. WITH THE APPROVAL OF THE HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION, ROCKS THAT ARE REMOVED MAY BE CRUSHED AND USED AS BACKFILL. MATERIAL OF FDOT CLASS A-5, A-7, OR A-8 SHALL NOT BE ALLOWED.
    BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED EIGHT (8) INCHES IN THICKNESS, WITH EACH LAYER CAREFULLY COMPACTED TO 100% OF MAXIMUM DENSITY, PER AASHTO T-99-C, AND TESTED BY THE PERMITTEE, UNDER THE SUPERVISION OF THE HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION, BEFORE PLACING SUCCEEDING LAYERS. SWALE AREAS NEED ONLY BE COMPACTED TO 95% OF MAXIMUM DENSITY, PER AASHTO T-99-C. DENSITY TESTS SHALL BE TAKEN BY THE PERMITTEE, IN EACH LANE AND SHOULDERS AT INTERVALS OF FIVE-HUNDRED (500) FEET OR LESS, AS DIRECTED BY THE HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION REPRESENTATIVE.
35. EROSION CONTROL MEASURES SHALL BE TAKEN BY CONTRACTOR DURING CONSTRUCTION AS PER THE ON-SITE SET OF PLANS.
    A. SILT FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF THE PROJECT ADJACENT TO ANY SOIL DISTURBING ACTIVITIES, THAT SLOPE AWAY FROM THE RIGHT OF WAY.
    B. STAKED TURBIDITY BARRIER SHALL BE INSTALLED UPSTREAM OF ANY MINOR CROSS DRAIN IMPROVEMENTS.
    C. ALL DRAINAGE STRUCTURES ARE TO BE PROTECTED DURING CONSTRUCTION.
    D. ALL FENCING, GRADING, SIGNING AND SODDING SHALL BE MAINTAINED DURING THE CONTRACT LIFE. ALL DAMAGED WORK SHALL BE RESTORED AT NO COST
    E. FOR ADDITIONAL PLACEMENT OF SEDIMENT CONTROL EROSION CONTROL SEE ON-SITE DETAIL SHEETS.
36. AT LOCATIONS WHERE PIPE AND DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED OR REMOVED UNDER THE EXISTING PAVEMENT, THE REPLACEMENT OF EMBANKMENT, BASE, ASPHALT, ETC NECESSARY FOR EXCAVATION IS TO BE INCLUDED IN THE COST OF PIPE.
37. ALL SIDEWALK RAMPS SHALL MEET THE REQUIREMENTS OF FDOT STANDARD INDEX 522-001 AND FACE IN THE DIRECTION OF PEDESTRIAN TRAVEL. (LATEST VERSION) AND SHALL COMPLY WITH ALL ADA REQUIREMENTS.
38. THE HIGHEST PRIORITY SHALL BE GIVEN TO ENSURE PEDESTRIAN SAFETY DURING CONSTRUCTION. IF PERMISSION IS GRANTED TO TEMPORARILY CLOSE A SIDEWALK, IT SHALL BE DONE WITH THE EXPRESS CONDITION THAT AN ALTERNATE ROUTE WILL BE PROVIDED, CLEARLY IDENTIFIED, AND REOPENED AS QUICKLY AS POSSIBLE.
39. THE FOLLOWING GENERAL NOTES ARE REQUIRED BY THE SOUTH BROWARD DRAINAGE DISTRICT (SBDD). THEY ARE NOT MEANT TO BE ALL INCLUSIVE. IT IS THE ENGINEER'S RESPONSIBILITY TO ADD ANY NOTES WHICH WILL INFORM THE OWNER AND THE CONTRACTOR OF ANY ADDITIONAL REQUIREMENTS OF SBDD.

    THE CONTRACTOR SHALL CONTACT SBDD 48 HOURS OR TWO (2) WORKING DAYS PRIOR TO ANY REQUIRED INSPECTION. TO SCHEDULE INSPECTIONS, PLEASE CALL SBDD AT (954)680-3337. SBDD'S WORKING HOURS ARE FROM 8:00 AM TO 4:30 PM. MONDAY THROUGH FRIDAY EXCEPT HOLIDAYS.
40. ANY REVISIONS TO PLANS PERMITTED BY SBDD MUST BE APPROVED BY SBDD PRIOR TO CONSTRUCTION.
41. A PRECONSTRUCTION MEETING SHALL BE SCHEDULED AND HELD AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING CONSTRUCTION.
42. A SET OF SHOP DRAWINGS SHALL BE SUBMITTED TO SBDD AFTER APPROVAL BY THE ENGINEER OF RECORD.
43. DURING CONSTRUCTION, SBDD PERSONNEL WILL INSPECT THE FOLLOWING:
    .. INSTALLATION OF ALL UNDERGROUND DRAINAGE FACILITIES BEFORE BACKFILLING.
    .. BACKFILLING OF DRAINAGE TRENCHES.
    .. SHAPING OF CANAL AND LAKE BANKS FROM THE DEEP CUT TO THE UPLAND EASEMENT LINE OR AS REQUIRED BY SBDD,
    AND ANY OTHER DRAINAGE RELATED CONSTRUCTION WORK.
    RE-INSPECTIONS OR EXTRAORDINARY INSPECTIONS WILL BE SUBJECT TO ADDITIONAL FEE CHARGES BY SBDD.
44. THE CONTRACTOR CONSTRUCTING OR EXCAVATING LAKES OR OTHER WATER BODIES SHALL EXCERCISE EXTREME CAUTION TO ENSURE THAT THE SIDE SLOPES AND DEEP CUT LINES ARE CONSTRUCTO IN ACCORDANCE WITH THE APPROVED PLANS FOR THE DEVELOPMENT. THE CONTRACTOR OR OWNER SHALL PERIODICALLY, OR AS REQUIRED BY SBDD, OBTAIN A SURVEY, FROM A FLORIDA REGISTERED SURVEYOR OF THE LOCATION OF THE DEEP CUT LINES PRIOR TO FORMING THE SIDE SLOPES. THIS SURVEY SHALL BE PERFORMED PRIOR TO THE OWNER/CONTRACTOR BEGINNING CONSTRUCTION OF ANY BUILDING PADS ADJACENT TO THE WATER BODY. IN THE EVENT THAT THE CONTRACTOR OVER DIGS THE WATER BODY, THE OWNER/CONTRACTOR SHALL SUBMIT TO SBDD ITS SOLUTION TO CORRECT THE OVER DIGGING. ANY SUGGESTED REMEDY OR CORRECTION MUST BE APPROVED BY SBDD BEFORE THE CONTRACTOR BEGINS THE PROPOSED CORRECTION/REMEDY.
45. PAVING AND DRAINAGE "AS-BUILT" PLANS CERTIFIED BY THE ENGINEER OF RECORD AND APPROVED BY SBDD'S ENGINEER AND DIRECTOR WILL BE REQUIRED BEFORE THE RELEASE OF THE BOND OR LETTER OF CREDIT. AS-BUILTS SHALL BE PROVIDED AS AN OVERLAY OF THE APPROVED CONSTRUCTION DRAWINGS AND AT THE SAME SCALE AS ORIGINALLY SUBMITTED. AS-BUILT SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF SECTION SIX (6) OF SBDD'S CRITERIA MANUAL. AS-BUILTS MUST ALSO BE PROVIDED ON AN AUTOCAD DISC.
46. AS-BUILT DRAWINGS OF WATER BODIES SHALL INCLUDE THE DATA ADDRESSED IN THE "AS-BUILT LAKE SECTION" IN EXHIBIT 26 OF SBDD'S CRITERIA MANUAL. THE AS-BUILT CROSS SECTIONS SHALL BE PROVIDED AT NOT MORE THAN 100 FOOT INTERVALS AND AT ALL OUTFALL PIPES CONSTRUCTED WITHOUT HEADWALLS
47. SBDD WILL NOT COMPLETE THE FINAL INSPECTION UNTIL THE AS-BUILT PACKAGE WHICH MUST INCLUDE THE ENGINEERS CERTIFICATION AND TEST RESULTS FOR STABILIZATION OF LAKE/CANAL MAINTENANCE EASEMENTS, ARE RECEIVED.
48. PLEASE NOTE THAT ALL EXISTING DRAINAGE SYSTEMS AFFECTED BY THE CONSTRUCTION WITHIN THE RIGHT OR WAY UPON COMPLETION OF THE PROJECT SHALL BE CLEANED.
49. ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS BCTED IS NOTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.

Broward County Traffic Engineering Division Communications Notes

To be placed within plan set

(Revised: 10/13/2015)

"Communications Notes"

The agency responsible for maintenance of the traffic signals and related equipment is Broward County Traffic Engineering Division (BCTED). All system communications equipment, cabling and related material shall comply with Broward County's latest edition of the minimum standards as expressed in the "Standards and Specifications - Communication Infrastructure" document. Please refer to (BCTED's) Communications Policies and Procedures for additional information. Broward County Traffic Engineering Division will not accept any projects that do not meet these standards and specifications. If fiber optic pull boxes already exist at an intersection, no additional fiber optic pull boxes will need to be installed. For a copy of these standards refer to the Broward County web site at www.BROWARD.ORG/TRAFFIC under publications.

If there are Copper Interconnect Cable/s within your project limits or within 1500 feet of your project limits, contact the Communications Manager at tecommunications@broward.org or 954-847-2745.

If there are Fiber Optic Cable/s within your project limits or within 1500 feet of your project limits contact the Communications Manager at tecommunications@broward.org or 954-847-2745.

If there are cellular communications within your project limits, contact the Communications Manager at tecommunications@broward.org or 954-847-2745

All BCTED communications cables/conduit shall be located a minimum of 48 hours in advance.

Broward County Traffic Engineering Division
Procedure for Notification of Communication Disrupting

Copper Interconnect Cable Notification Contact Person
When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor shall provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification shall be conveyed via electronic mail (email) to the Traffic Signal Technician III at tecommunications@broward.org. Notification shall include contact person, telephone number, purpose, location and duration. The disruption shall last for no more than 3 consecutive business days. Where possible, the disruption shall be during off peak hours beginning at 9:00am and ending at 3:00pm.

Fiber Optic Cable Notification Contact Person
When communications to an intersection must be disrupted by a Contractor to perform work, the Contractor shall provide two day advance notice in writing to the Broward County Traffic Engineering Division. This notification shall be conveyed via electronic mail (email) to the Communications Manager at tecommunications@broward.org. Notification shall include contact person, telephone number, purpose, location and duration. The disruption shall last for no more than 3 consecutive business days. Where possible, the disruption shall be during off peak hours beginning at 9:00am and ending at 3:00pm.

Include the following in any notice of utility ownership or within a "Utility Owners/Contact Person" table:

Interconnect Communications Cables - (Robert Blount) Broward County Traffic Engineering Division (BCTED) 954-847-2745

BROWARD COUNTY FLORIDA

Our Best Broward County Nothing Less.

PUBLIC WORKS DEPARTMENT
TRAFFIC ENGINEERING DIVISION
2300 W. Commercial Boulevard • Fort Lauderdale, Florida 33309 • 954-847-2600 • FAX 954-847-2700

MAINTENANCE OF TRAFFIC - SCHOOL/PEDESTRIAN

The Maintenance of Traffic plan, provided by the Contractor, shall include provisions for pedestrian and/or school student traffic as well as vehicular traffic. The following are minimum requirements:

1. The safe walk route for all school students within the vicinity of the construction zone shall be maintained during student arrival and dismissal times. If the current walking surface cannot be maintained, then a temporary walkable surface shall be created. The safe walk route shall be separated from the construction activity during the entire length of the project encompassing the entire walk route with proper pedestrian openings at designated crossings in compliance with FDOT Design Standards Index No. 600 as well as meeting all ADA requirements.
2. All construction equipment activity around any designated crosswalk shall cease to operate during the student arrival and dismissal times. All construction equipment activity adjacent to a designated walk route shall cease operating unless satisfactorily barricaded from the walk route.
3. In the case that a designated crossing or any portion of the designated walk route cannot be maintained, the Contractor shall notify the Special Projects Coordinator at Broward County Traffic Engineering Division, (954) 847-2600, a minimum of ten (10) working days prior to closing that route in order to establish an alternate crossing/route.
4. It shall be the Contractor's responsibility to install any necessary pavement, road rock, pavement markings and signage and/or any pedestrian signalization and/or signal modification to accommodate an existing or alternate walk route throughout the entire length of the project.
5. It shall be the Contractor's responsibility to provide State Certified School Crossing Guards or Off Duty Police Officers to cross students at all locations other than those previously designated. The Contractor may use Flagmen, but ONLY if they are State Certified as a School Crossing Guard.
6. Thirty (30) days prior to the beginning of construction the Contractor shall notify the Special Projects Coordinator at Broward County Traffic Engineering Division, (954) 847-2600 or at browardtraffic.org to discuss all necessary safety measures.
7. It shall be the Contractor's responsibility to notify the following Broward County School Board Pupil Transportation Department personnel if construction will impact any bus routes:

   • Ruth Masters — Routing — (754) 321-4400 Ext. # 2309 — [illegible]
   • Vincent Harrell — Student Transportation & Fleet Service — (754) 321-4472 — [illegible]
   • Mary Tochtermann — Student Transportation & Fleet Service — (754) 321-4400 Ext. # 2009 — [illegible]

   Upon coordination with the aforementioned personnel, and if deemed necessary, a pre-construction meeting will be held to determine all bus routes and to make any necessary arrangements for rerouting. The Special Projects Coordinator from the Broward County Traffic Engineering Division, (954) 847-2600, will be notified and may attend the pre-construction meeting.
8. The Contractor shall be responsible for obtaining an approved Maintenance of Traffic Plan (MOT), specifying the above school/pedestrian conditions, through the Broward County Traffic Engineering Division or the Local Municipality, depending on the roadway jurisdiction. The conditions outlined in the MOT are fully effective as part of the proposed improvements. The Contractor shall be responsible for ensuring that all work associated with the project is in compliance with all the requirements of the approved MOT.
9. The Contractor shall ensure that there are NO speed limit signs installed within the designated reduced speed school zone at any time throughout the project.

Revised: 1/24/14

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED
24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION
☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS
☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE
BY: ______ DATE: ______
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

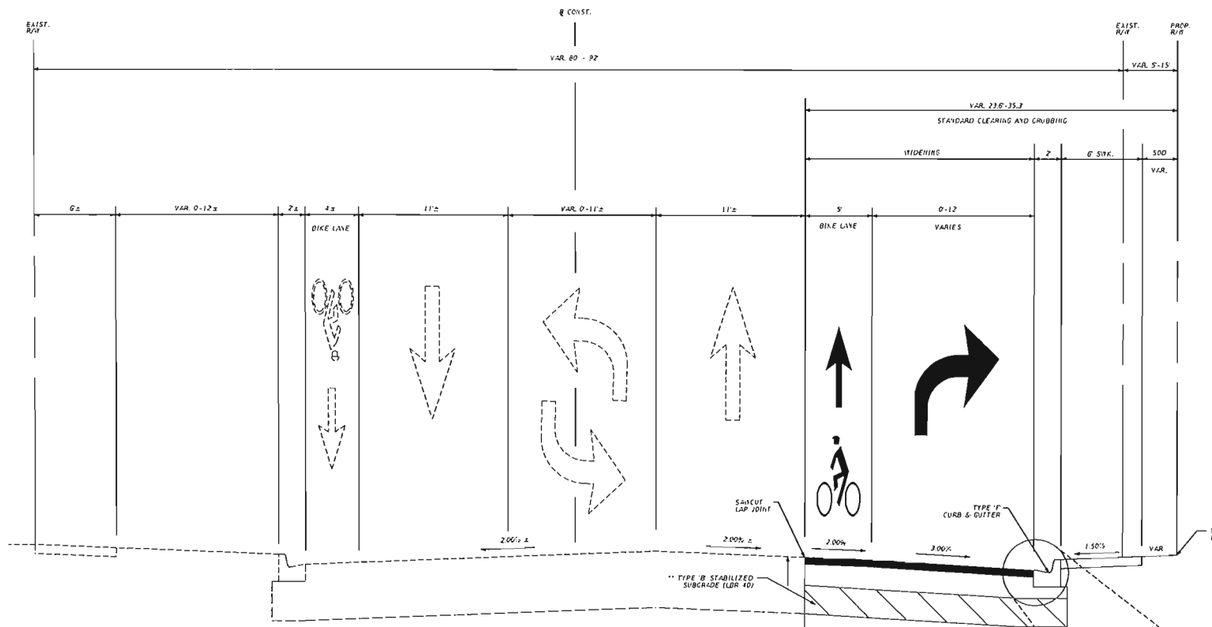
Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

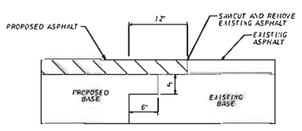
DANIA BEACH MARINA CORPORATION

GENERAL NOTES

SHEET NO. 3



POSTED SPEED = 30 MPH
DESIGN SPEED = 35 MPH

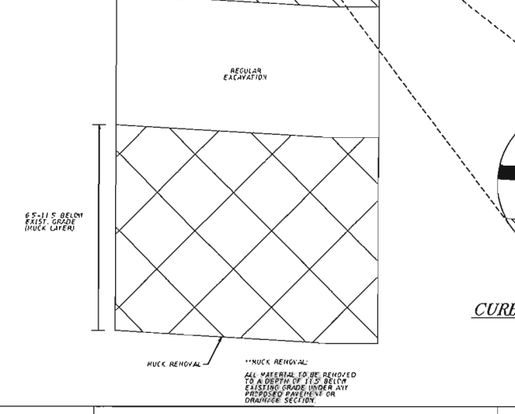


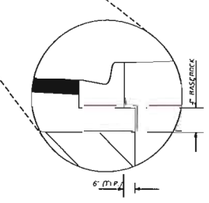
LAP JOINT DETAIL

N.T.S.

BRYAN ROAD

STA. 205+32.19 TO STA. 217+37.77





CURB PAD DETAIL (TYP.)

N.T.S.

PAVEMENT WIDENING
1" FC-9.5 FRICTION COURSE WITH TACK COAT 0.05 GAL/SY
1 1/2" SP-STRUCTURAL COURSE TRC WITH RC-70 PRIME COAT @ 0.10 GAL/SY
12" LIMEROCK BASE LBR (100)
12" TYPE 'B' STABILIZED SUBGRADE LBR (40) OR
18" TYPE 'B' STABILIZED SUBGRADE LBR (40)*

PAVEMENT MILLING & RESURFACING
1" MILLING EXISTING ASPHALT PAVEMENT
1" FC-9.5 FRICTION COURSE WITH TACK COAT 0.05 GAL/SY

NOTES:
1. LIMEROCK BASE SHALL BE A MIX OF 12" AND CONSTRUCTED IN LIFTS NOT TO EXCEED 6" IN ACCORDANCE WITH BROWARD COUNTY MINIMUM STANDARDS SECTION 6-1.3. BASE MATERIAL SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T-180.

2. STABILIZED SUBGRADE SHALL BE A MIN. OF 12" THICK AND COMPACTED TO 98% MAX. DENSITY ACCORDING TO AASHTO T-180. MATERIAL TO HAVE MIN. LBR OF 40 AND CONFORM TO BROWARD COUNTY MINIMUM STANDARDS SECTION 6-1.6. THE TOP 12" OF UNDISTURBED SOIL SHALL BE COMPACTED TO 100% OF MAX. DRY DENSITY AS PER AASHTO T-99-C.

3. SWALES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER AASHTO T-99-C, AND SEEDED, MULCHED AND FERTILIZED, OR SODDED.

4. CURB PAD (4") LIMEROCK PAD SHALL HAVE CARBONATES CONTENT MINIMUM 70% PER DCWS

5. WEARING COURSES SHALL NOT BE PLACED UNTIL ALL CONDITIONS OF BCHS SECTION 6-1.8.3 HAVE BEEN ACHIEVED

6. PRIME COAT SHALL BE USED ON THE FINISHED ROCK BASE.

7. TACK COAT SHALL BE USED BETWEEN PAVING COURSES

8. THE FILL SHOULD CONSIST OF SAND WITH LESS THAN 10 PERCENT SOIL FINES. PLACE FILL IN UNIFORM 10- TO 12-INCH LOOSE LIFTS AND COMPACT EACH LIFT TO A MINIMUM DENSITY OF AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). THE LAST 6 INCHES OF FILL BENEATH PAVEMENT AREAS SHOULD BE COMPACTED TO 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. STABILIZE THIS ZONE WITH SHELL OR LIMEROCK AS REQUIRED TO MEET THE SUBGRADE RECOMMENDATIONS CONTAINED IN THE PAVEMENTS SECTION OF THIS REPORT.

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit for Construction Must Be Obtained from The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

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BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____
DOES NOT INCLUDE APPROVAL OF PAVEMENT WARRANTY & BOND

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC I. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

BRYAN ROAD
TYPICAL SECTION

SHEET NO.
4

BCHCED REF. NO: XXXXXXXXX

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

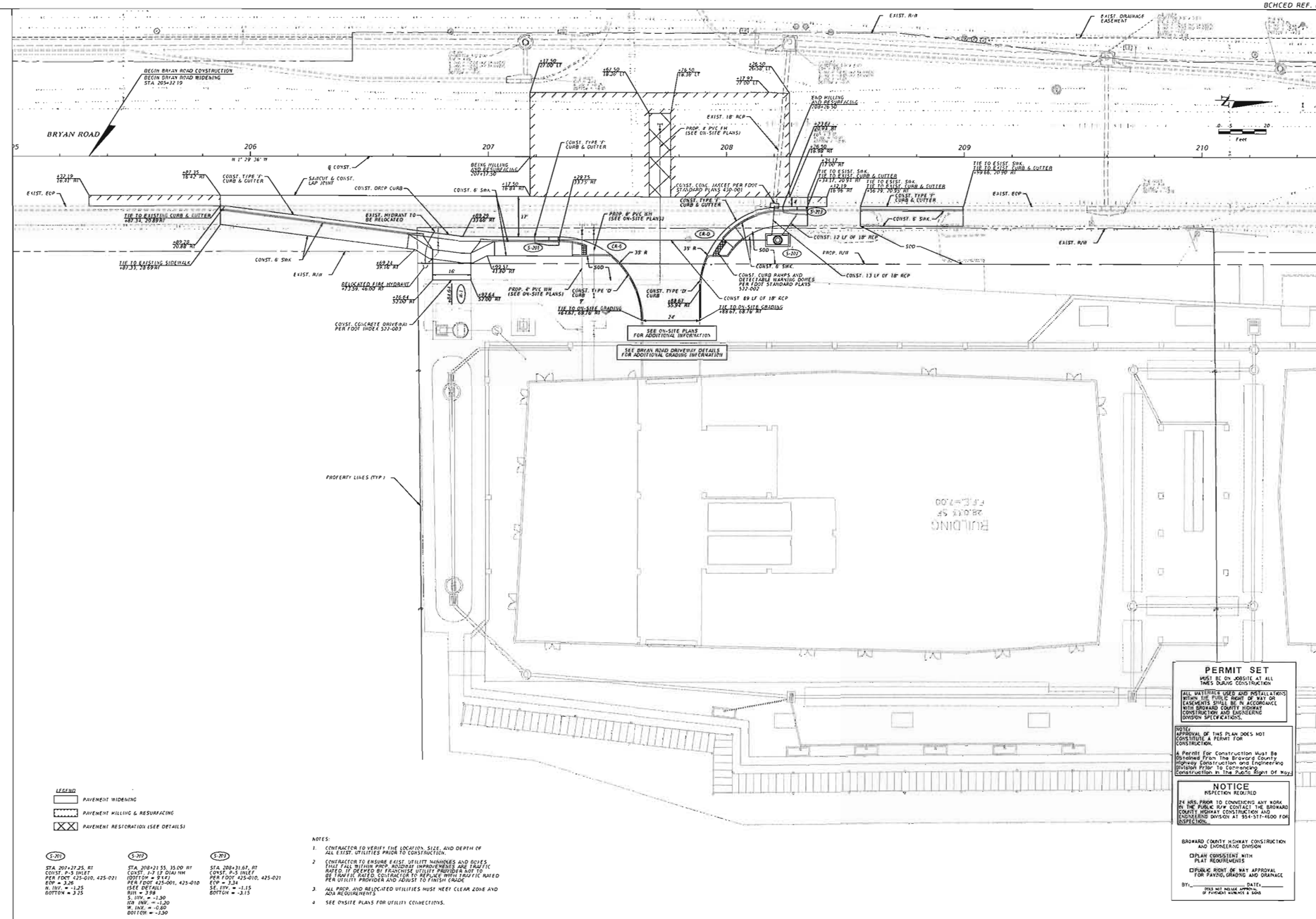
Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

PROJECT LAYOUT

SHEET NO. 5



LEGEND

- PAVEMENT WIDENING
- PAVEMENT MILLING & RESURFACING
- XX PAVEMENT RESTORATION (SEE DETAILS)

S-201
STA. 207+27.25, RT
CONST. P-5 INLET
PER FDOT 425-010, 425-021
EOP = 3.26
N. INV. = -1.25
BOTTOM = 3.25

S-202
STA. 208+21.55, 35.00, RT
CONST. 1-7 LF DIA) MH
(BOTTOM = 9.47)
PER FDOT 425-001, 425-010
(SEE DETAIL)
RIM = 3.98
S. INV. = -1.30
SW INV. = -1.20
W. INV. = -0.80
BOTTOM = -3.30

S-203
STA. 208+31.67, RT
CONST. P-5 INLET
PER FDOT 425-010, 425-021
EOP = 3.34
SE. INV. = -1.15
BOTTOM = -3.15

NOTES:

1. CONTRACTOR TO VERIFY THE LOCATION, SIZE, AND DEPTH OF ALL EXIST. UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO ENSURE EXIST. UTILITY MANHOLES AND BOXES THAT FALL WITHIN PROP. ROADWAY IMPROVEMENTS ARE TRAFFIC RATED. IF DEEMED BY FRANCHISE UTILITY PROVIDER NOT TO BE TRAFFIC RATED, CONTRACTOR TO REPLACE WITH TRAFFIC RATED PER UTILITY PROVIDER AND ADJUST TO FINISH GRADE
3. ALL PROP. AND RELOCATED UTILITIES MUST MEET CLEAR ZONE AND ADA REQUIREMENTS
4. SEE ON-SITE PLANS FOR UTILITY CONNECTIONS.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

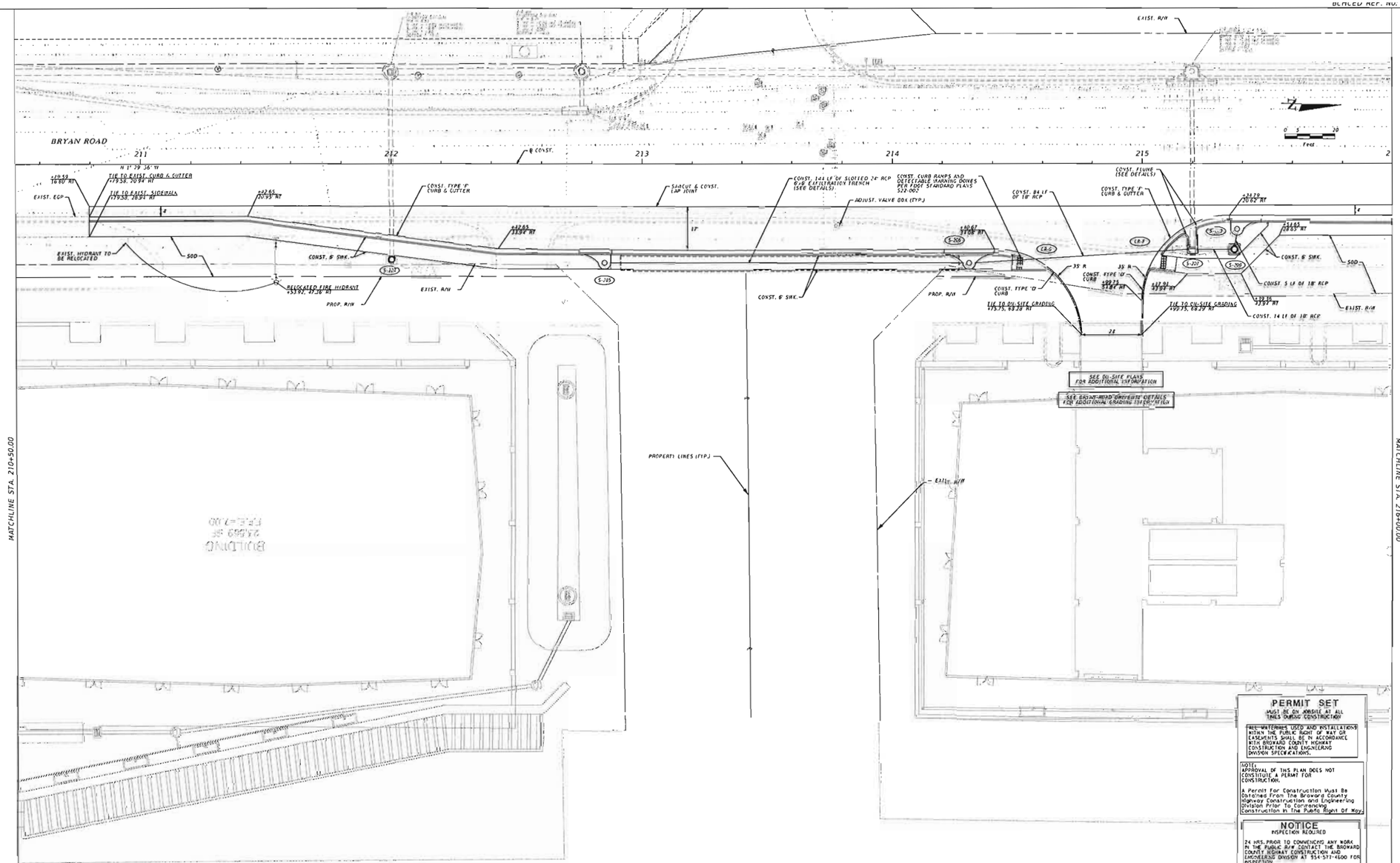
Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD PLAN SHEET

SHEET NO. 6



MATCHLINE STA. 210+50.00

MATCHLINE STA. 216+00.00

LEGEND

PAVEMENT WIDENING

S-201 — STA. 212+00.00, 37.84' RT
CONST. R/W (TOP ONLY)
PER FDOT 425-001
RIM = 4.95
W. INV. = 1.30±
BOTTOM = -0.20±

S-202 — STA. 212+84.93, RT
CONST. P-1 INLET
PER FDOT 425-010, 425-020
EOP = 4.20
N. INV. = -1.50 (W/ SKIMMER)
BOTTOM = -5.30

S-203 — STA. 214+32.66, RT
CONST. P-1 INLET
PER FDOT 425-010, 425-020
EOP = 3.23
S. INV. = -1.80 (W/ SKIMMER)
N. INV. = -1.80
BOTTOM = -5.30

S-204 — STA. 215+19.95, 34.29' RT
CONST. TYPE 'C' DBI TOP ONLY
PER FDOT 425-052
GRADE = 2.96
N. INV. = -1.30
S. INV. = -1.80
W. INV. = -1.40±(EX.)
BOTTOM = -3.40±(EX.)

S-205 — STA. 215+36.78, 34.29' RT
CONST. 1-48" (2' DIA) MH
(BOTTOM = 4.14')
PER FDOT 425-001, 425-010
RIM = 3.98
S. INV. = -1.20
W. INV. = -1.20
BOTTOM = -3.20

S-207 — STA. 215+37.79, RT
CONST. P-1 INLET
PER FDOT 425-010, 425-020
EOP = 3.36
E. INV. = -1.15
BOTTOM = -3.15

NOTES:

1. CONTRACTOR TO VERIFY THE LOCATION, SIZE, AND DEPTH OF ALL EXIST. UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO ENSURE EXIST. UTILITY MANHOLES AND BOXES THAT FALL WITHIN PROP. ROADWAY IMPROVEMENTS ARE TRAFFIC RATED. IF DEEMED BY FRANCHISE UTILITY PROVIDER NOT TO BE TRAFFIC RATED, CONTRACTOR TO REPLACE WITH TRAFFIC RATED PER UTILITY PROVIDER AND ADJUST TO FINISH GRADE.
3. ALL PROP. AND RELOCATED UTILITIES MUST MEET CLEAR ZONE AND ADA REQUIREMENTS
4. SEE ONSITE PLANS FOR UTILITY CONNECTIONS

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL WATERWORK USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
(FOR-NOT PRIOR APPROVAL OF PAVING, GRADING & DRAIN)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

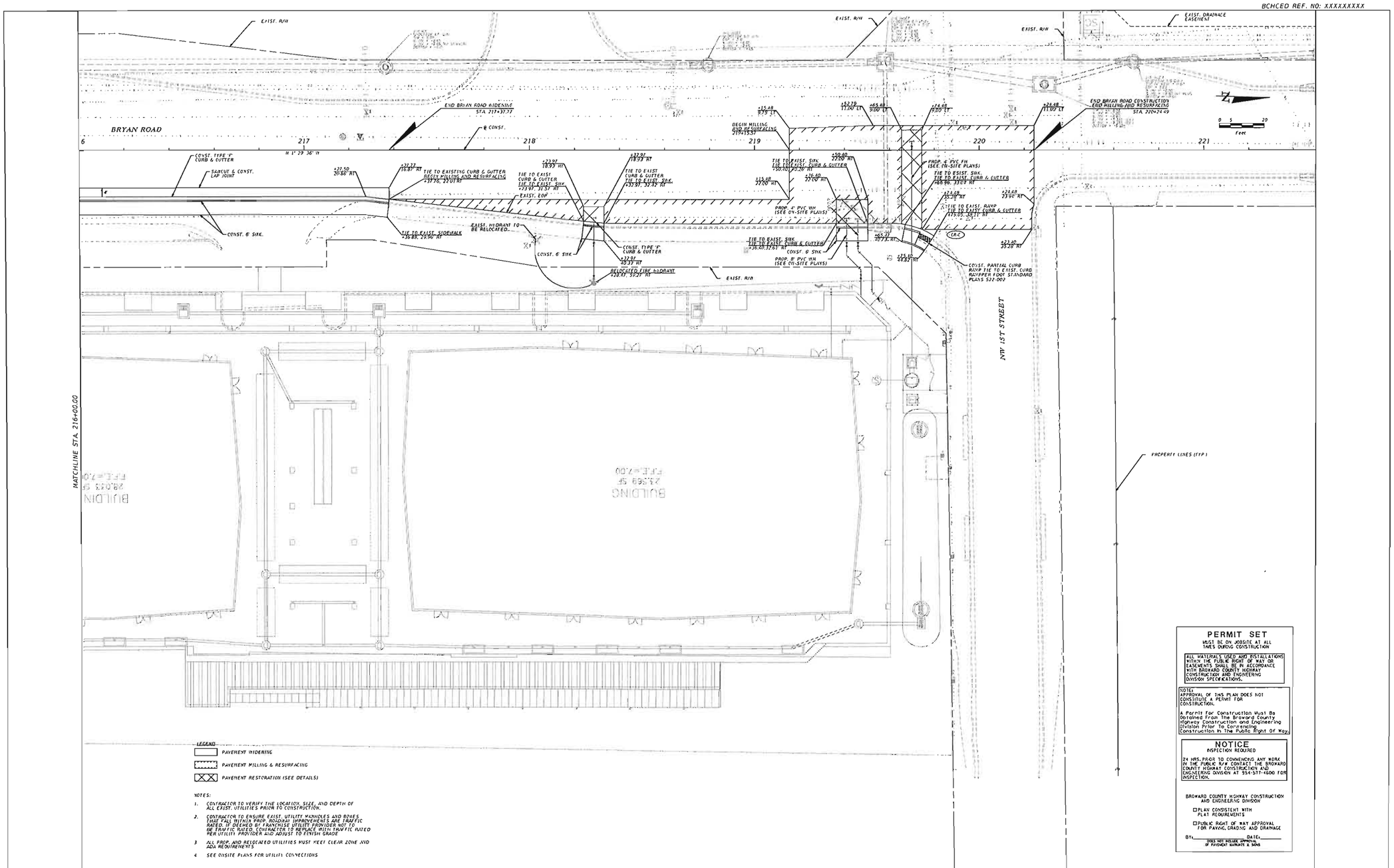
Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64016
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD
PLAN SHEET

SHEET NO. 7



LEGEND:

- PAVEMENT WIDENING
- PAVEMENT MILLING & RESURFACING
- PAVEMENT RESTORATION (SEE DETAILS)

NOTES:

1. CONTRACTOR TO VERIFY THE LOCATION, SIZE, AND DEPTH OF ALL EXIST. UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO ENSURE EXIST. UTILITY MANHOLES AND BOXES THAT FALL WITHIN PROP. ROADWAY IMPROVEMENTS ARE TRAFFIC RATED. IF DEEMED BY FRANCHISE UTILITY PROVIDER NOT TO BE TRAFFIC RATED, CONTRACTOR TO REPLACE WITH TRAFFIC RATED PER UTILITY PROVIDER AND ADJUST TO FINISH GRADE
3. ALL PROP. AND RELOCATED UTILITIES MUST MEET CLEAR ZONE AND ADA REQUIREMENTS
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PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

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INSPECTION REQUIRED

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BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

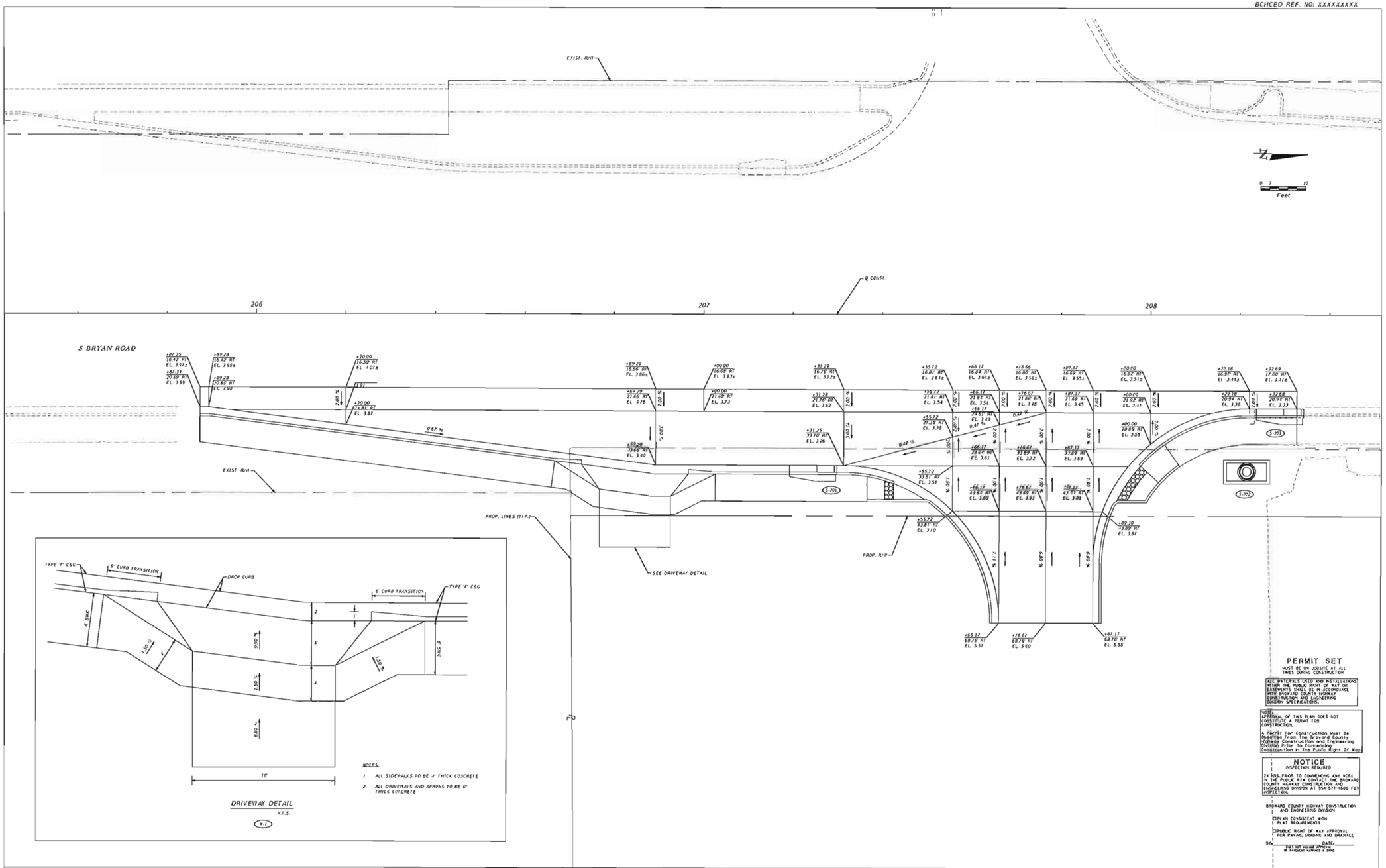
DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD PLAN SHEET

SHEET NO. 8

BCHCED REF. NO: XXXXXXXXX



PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A PERMIT FOR CONSTRUCTION MUST BE OBTAINED FROM THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION PRIOR TO COMMENCING CONSTRUCTION IN THE PUBLIC RIGHT OF WAY.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____
DOES NOT INCLUDE SIGNATURE OF HIGHWAY MANAGER & SEAL

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

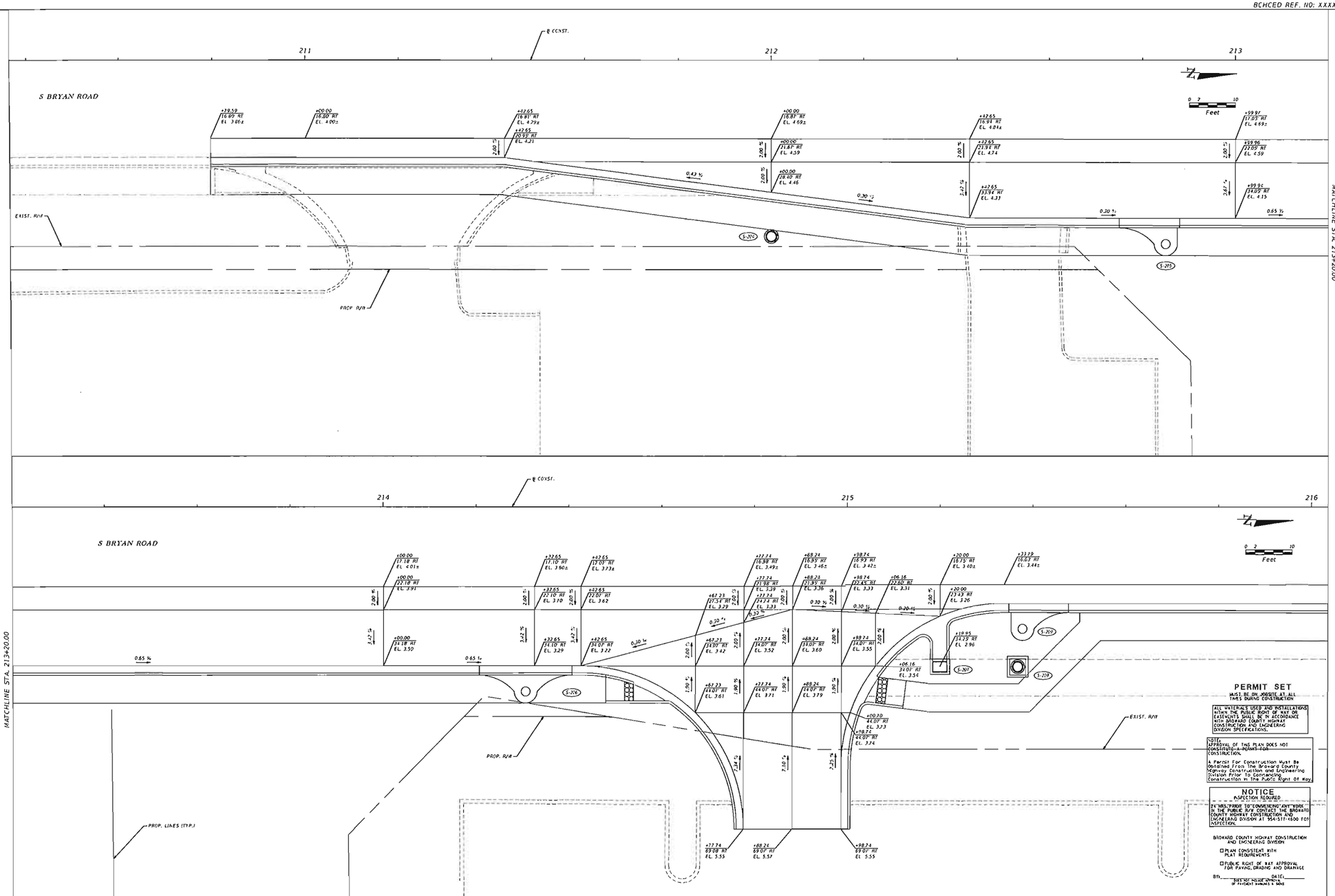
Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

MISCELLANEOUS DETAILS

SHEET NO.
9



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

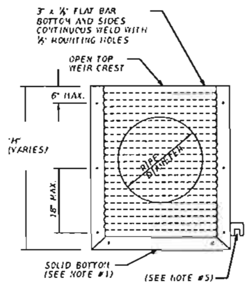
Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

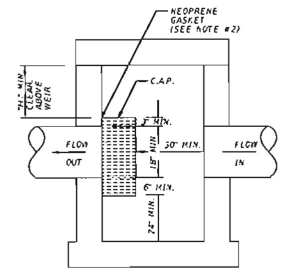
MISCELLANEOUS DETAILS

SHEET NO. 10



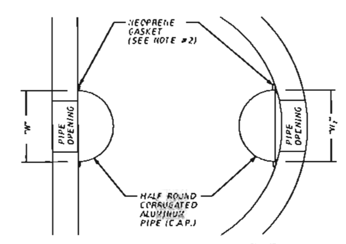
FRONT VIEW

WEIR DETAIL



SIDE VIEW

WEIR ELEVATION PER PLAN



TOP VIEW RECTANGULAR STRUCTURE

TOP VIEW ROUND STRUCTURE

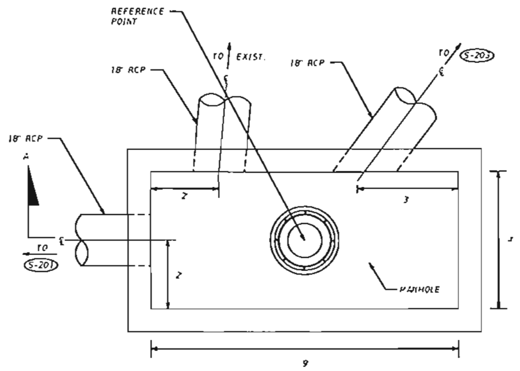
PIPE DIAM.	W (IN)	W_1 (IN)	T (GAUGE)	H_1 (IN)
15"	21"	21"	16	6
18"	24"	24"	16	7
21"	30"	33"	16	8
24"	30"	36"	16	10
30"	36"	42"	14	13
36"	42"	48"	14	16
42"	48"	54"	14	20
48"	54"	60"	14	23
54"	60"	66"	14	26

"W" RECTANGULAR STRUCTURE
"W₁" ROUND STRUCTURE

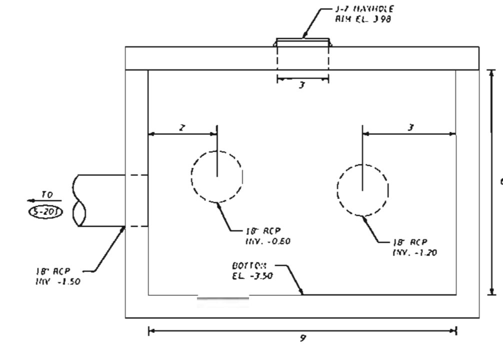
NOTES:

1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE BOTTOM FOR THE WEIR.
2. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES OR BOTTOM OF WEIRS.
3. HALF PIPE WEIR TO BE FASTENED IN PLACE WITH ⅜" 4" STAINLESS STEEL 'RED HEADS', OR APPROVED EQUAL.
4. FIBERGLASS BAFFLES AND WEIRS ARE NOT PERMITTED.
5. MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS

WEIR DETAILS
N.T.S



PLAN VIEW DETAIL
N.T.S.

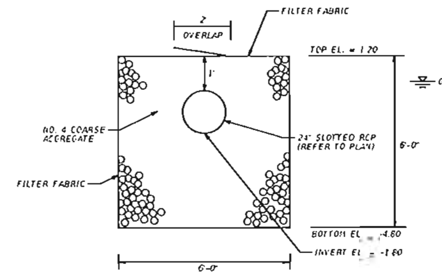


SECTION A-A DETAIL
N.T.S.

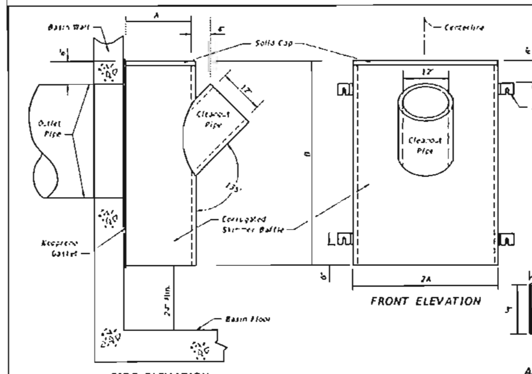
S-202 CUSTOM DRAINAGE STRUCTURE
N.T.S.

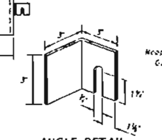
NOTES:

1. ALL STRUCTURE WALLS TO BE 8" IN THICKNESS

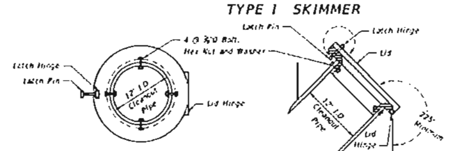


EXFILTRATION TRENCH DETAIL
N.T.S.



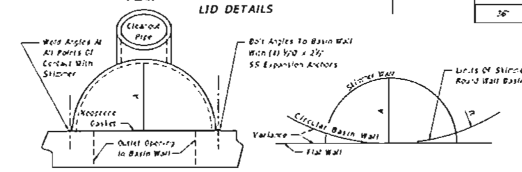


TYPE I SKIMMER

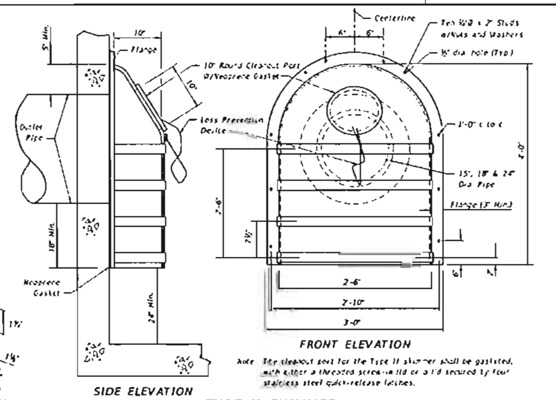


LID DETAILS

TYPE I SKIMMER DIMENSION TABLE		
OUTLET PIPE	A	B
18"	12"	42"
24"	15"	48"
30"	18"	54"
36"	21"	60"



The backs of skimmers must conform to the shape of the basin walls on which they are mounted. Show, in the plans, the radii required for curved-back skimmers. Applies to both skimmer types.



Note: The cleanout port for the Type II skimmer shall be gasketed, with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches.

TYPE II SKIMMER

GENERAL NOTES

1. The Frenchdrain Skimmer is a hooded cover, mounted over an outlet in a catchbasin, that prevents oil and floating debris from exiting the basin. Use this skimmer in Frenchdrain Catchbasins and in other locations where there is a need to prevent oil, debris or other floating contaminants from exiting Catchbasins through outlet pipes.
2. Place neoprene gasket material between the skimmer and the catchbasin at all points of contact. Trim the gasket neatly to extend ½ inch beyond the joint on all sides.
3. Skimmer baffle, cleanout pipe and angles shall be primarily constructed of either galvanized steel, aluminum, polyvinyl chloride, polyethylene, fiberglass or acrylonitrile butadiene styrene. All steel components, other than stainless, shall be hot-dip galvanized.
4. Mounting hardware, hinges and latches shall all be stainless steel. Loss prevention device shall be either stainless steel chain or riveted nylon strap.
5. Material used in construction of skimmer bodies (baffles) and cleanout pipe shall comply with Standard Specification 943 for steel, 945 for aluminum, or 948 for plastics.
6. All costs for furnishing and installing a frenchdrain skimmer shall be included in the cost of the basin in which it is installed. Retrofit skimmers shall be paid for as modify existing structure.
7. Plastic Skimmers shall contain a minimum of 1.5% by weight of carbon black for UV protection.

DESIGN NOTES

1. The contractor may submit an alternative design prefabricated Frenchdrain Skimmer for approval by the Engineer.
2. Show, in the plans, the location of the basin and indicate the interior side(s) of the basin on which a skimmer will be installed.
3. Type I Skimmer dimensions shall be based on the outlet pipe diameter as shown in the dimension table.
4. Type II Skimmers are to be used only with outlet pipe diameters of 15", 18", and 24".

LAST REVISION 07/01/04	REVISION	DESCRIPTION:	FDOT 2016 DESIGN STANDARDS	SKIMMERS FOR FRENCHDAIN OUTLETS	INDEX NO. 241	SHEET NO. 1 of 1

DESIGN CACULATIONS

EXAMPLE:
REQUIREMENTS: DESIGN FOR ONE INCH OF RUNOFF FOR EACH SQUARE FOOT OF DRAINAGE AREA. PROVIDE STORAGE FOR 100% OF THE RUNOFF.

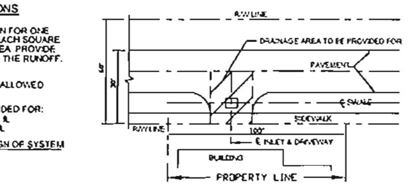
LENGTH PAVED = 40'
LENGTH OF PAVEMENT ALLOWED = 30% OF 100 ft = 30 ft

DRAINAGE TO BE PROVIDED FOR:
30 ft x 40 ft = 1200 sq. ft
1200 ft x 0.08 = 96 cu. ft

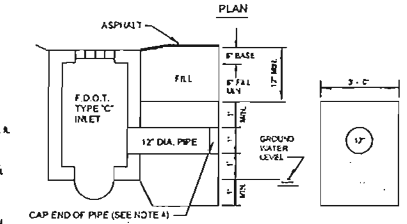
CALCULATION FOR DESIGN OF SYSTEM

1. VOLUME OF TYPE "C" CATCH BASIN
2.10 x 2.79 x 3.5 =
VOL. = 20.56 cu. ft
2. AREA OF 12" PIPE
$A = \pi \times R^2$
$A = 3.14 \times (0.5)^2$
A = 0.8 sq. ft
3. STORAGE AREA OF DRAINFIELD
50% OF (3' x 3-0.8)
A = 4.1 sq. ft
4. REQD. DRAINFIELD & PIPE STORAGE VOLUME (VR)
VR = TOT. REQD. VOL.
VR = 96 cu. ft - 20.56 cu. ft
5. LENGTH OF DRAINFIELD
$L = \frac{VR}{A_{DF} \times A_P} = \frac{75.44 \text{ cu ft}}{(4.1+0.8) \text{ sq ft}}$
$L = \frac{75.44}{4.9} = 15.44'$
USE 16'

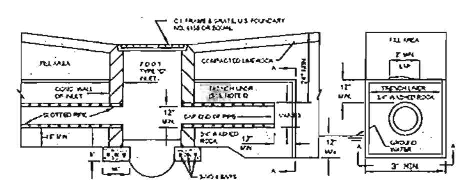
NOTE: DRAINFIELD MAY BE ON ONE SIDE OF THE CATCH BASIN OR BE DIVIDED ON TWO SIDES



PLAN



TYPICAL SECTION



INSTALLATION DETAILS - TYPICAL SECTION

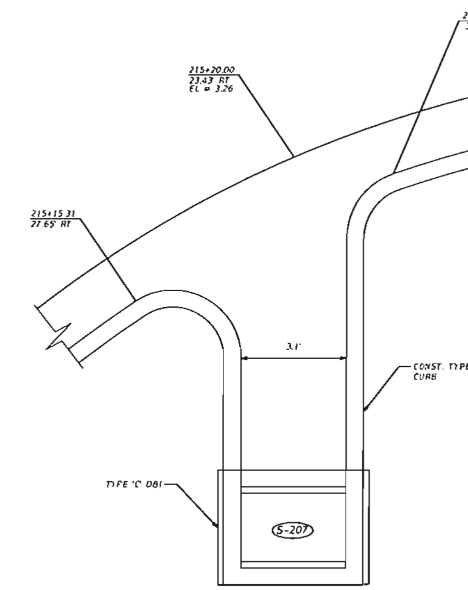
NOTES:

1. CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH, MINIMUM
2. PIPE SHALL BE 12" SLOTTED CONC. MEETING A.S.T.M. STDS. OTHER TYPES OF DRAIN PIPE REQ. HIGHWAY CONSTRUCTION & ENGINEERING DIVISION APPROVAL
3. PIPES SHALL TERMINATE WITH SCREEN OR SHALL CONNECT TO ADDITIONAL CATCH BASINS AS REQUIRED.
4. COVER PIPE ENDS WITH NO. 10 GALVANIZED OR ALUMINUM SCREEN, WITH OPENINGS NO LARGER THAN 1/2" x 1/2".
5. BALLAST ROCK SHALL BE FROM FRESH WATER AND WASHED FREE OF DELETERIOUS MATERIAL.
6. SIDES, ENDS, AND TOP OF ROCK SHALL BE COVERED WITH APPROVED FILTER FABRIC LAPPED 2' MIN. AT LOCATIONS WHERE TWO OR MORE PIECES MEET OVERLAPS AT SIDE OF TRENCH SHALL BE AVOIDED

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

DRAINAGE REQUIRMENTS WHEN PAVING OVER 30% OF SWALE

Approved by: DJH
Revised: 8/01/05 WRH
17 DWG. NO.



FLUME DETAIL
N.T.S

PERMIT SET
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NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: ________ DATE: ________
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

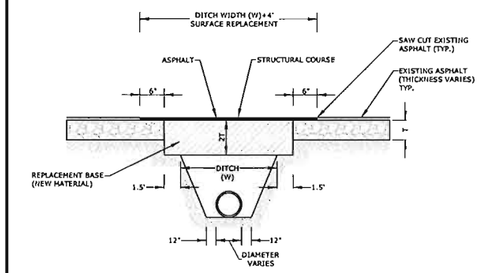
DANIA BEACH MARINA CORPORATION

MISCELLANEOUS DETAILS

SHEET NO. 11

BCHCED REF. NO: XXXXXXXXX

BROWARD COUNTY PUBLIC WORKS DEPARTMENT	WATER & WASTEWATER SERVICES ENGINEERING DIVISION 1555 WEST COPANS ROAD POMPANO BEACH, FL 33069 PHONE NO. 954-831-0715 FAX: 954-831-0928	STANDARD DETAIL



NOTES:

1. BASE MATERIAL OVER DITCH SHALL BE TWICE THE THICKNESS OF THE ORIGINAL.
2. BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM LAYERS (LOOSE MEASUREMENT) AND EACH LAYER THOROUGHLY ROLLED OR TAMPED TO 98% OF MAXIMUM DENSITY, PER AASHTO T-180.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SAW CUT.
4. SURFACE MATERIAL SHALL BE CONSISTENT WITH THE SURROUNDING SURFACE MATERIAL.
5. BASE MATERIAL SHALL HAVE A MINIMUM CARBONATE OF 70%.
6. SUB GRADE MATERIAL SHALL BE GRANULAR AND ANGULAR AND SHALL HAVE A MINIMUM LBR OF 40.
7. IF THE DITCH IS FILLED TEMPORARILY, IT SHALL BE COVERED WITH A 2" THICK ASPHALT CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM RAVELING, UNTIL REPLACED WITH A PERMANENT PATCH.
8. FOR STATE ROADS REFER TO FDOT SPECIFICATIONS AND REQUIREMENTS.

T = EXISTING LIMEROCK BASE THICKNESS.

REPLACES FORMER DWG NO.19B	RESTORATION OF ROADWAY CUT FOR PERPENDICULAR UTILITY INSTALLATION	FIGURE 183
REVISED 5/14/2018		

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

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NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-537-1600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____
DOES NOT INCLUDE APPROVAL OF PLUMBER NUMBER & SIZE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

DANIA BEACH MARINA	PAVEMENT RESTORATION DETAILS	SHEET NO.
DANIA BEACH MARINA CORPORATION		12

Matt.LeRette 8/4/2020 3:46:03 PM c:\pwworking\kha\pwprod\matt.lerette\dms68917\SPDTRD02.dgn

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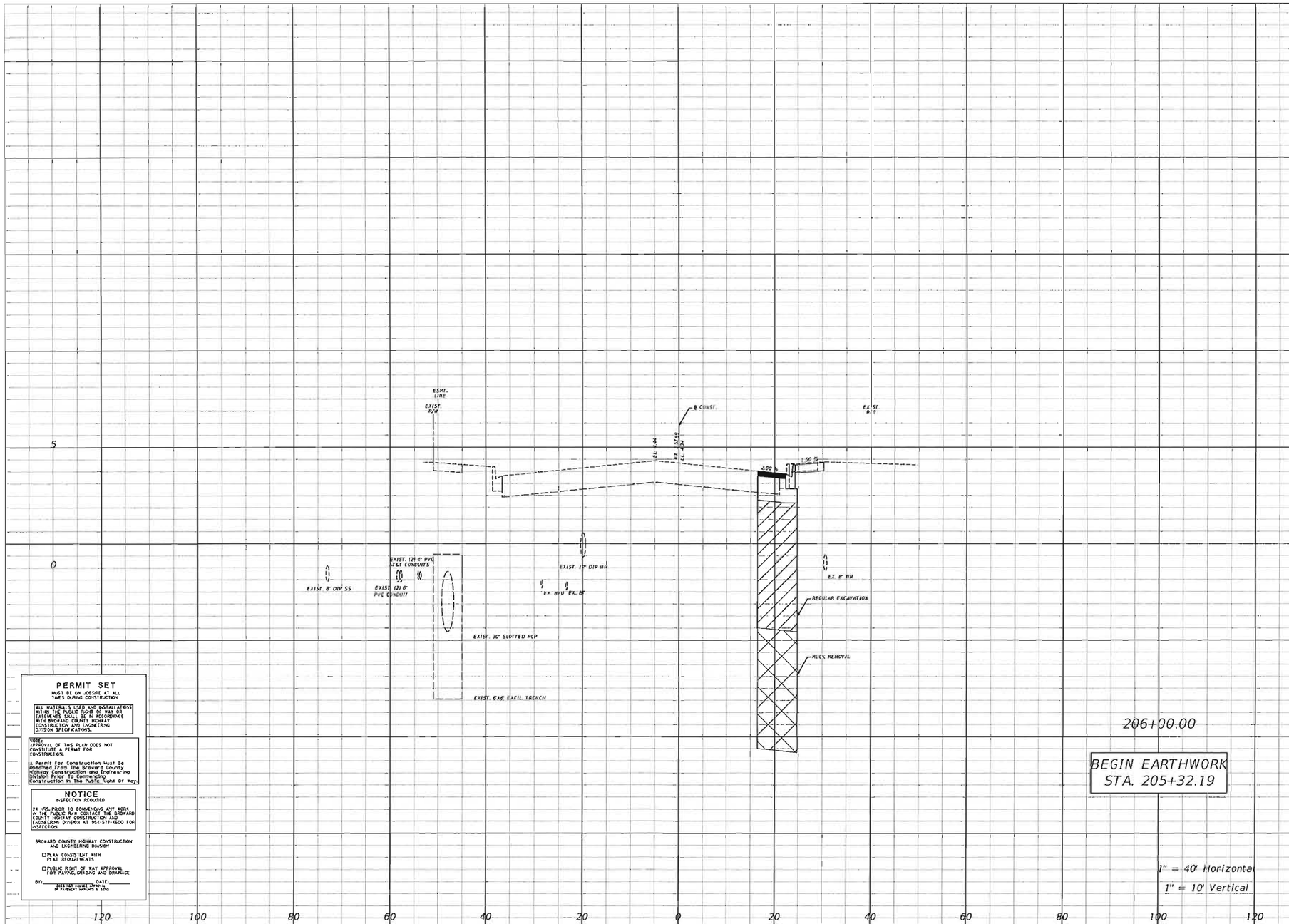

Regular Exc.		Embankment	
A	V	A	V
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	0.0		0.0

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

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24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-537-6200 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
DOES NOT INCLUDE CONTROL OF PAYMENT MONIES & BONDS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
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CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 13

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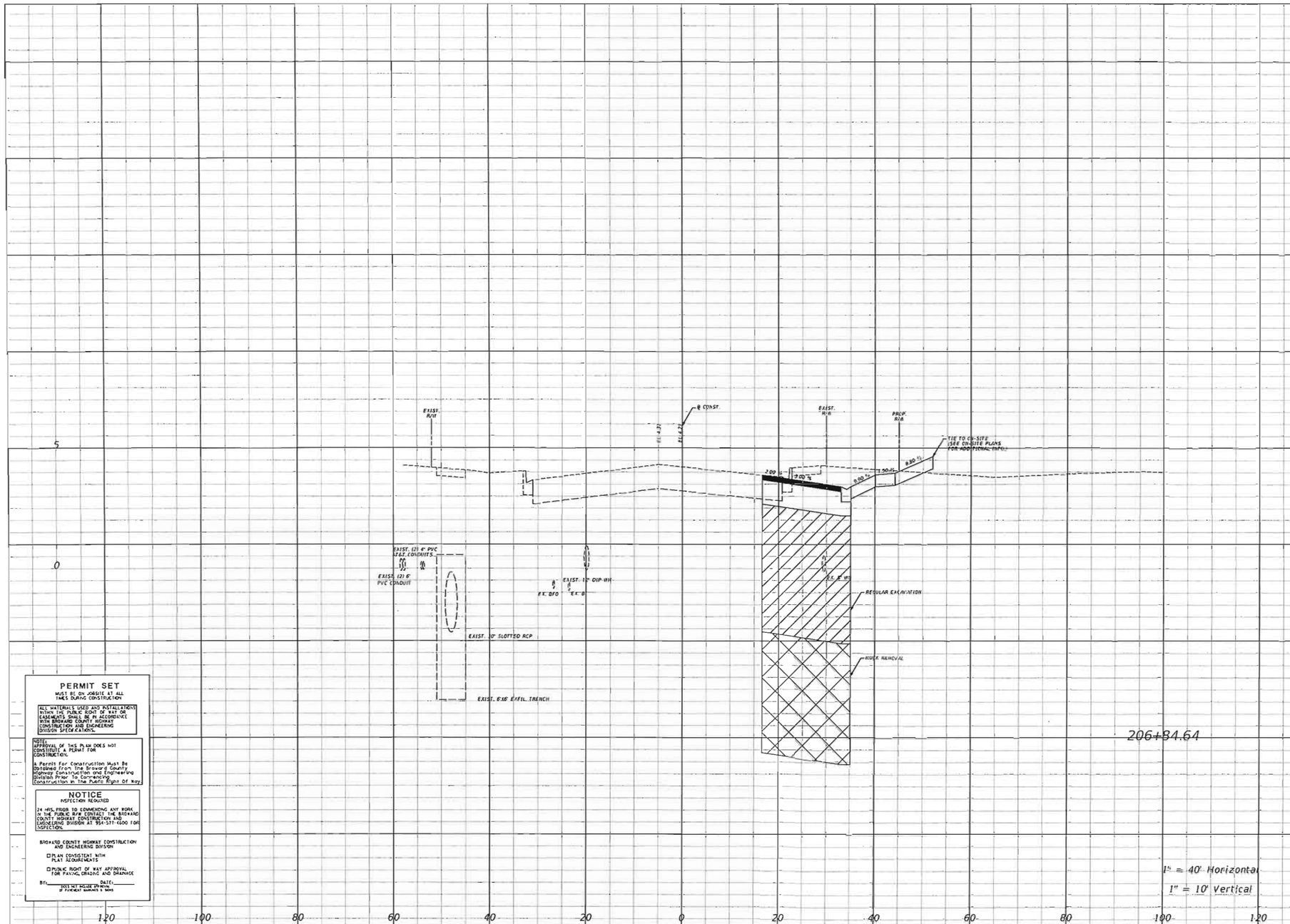

Regular Exc.		Embankment	
A	V	A	V
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	305.6		0.3

PERMIT SET
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BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY: _____ DATE: _____
SIGN NOT VALID UNLESS SEALED BY AUTHORIZED BROWARD COUNTY REPRESENTATIVE

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
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(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

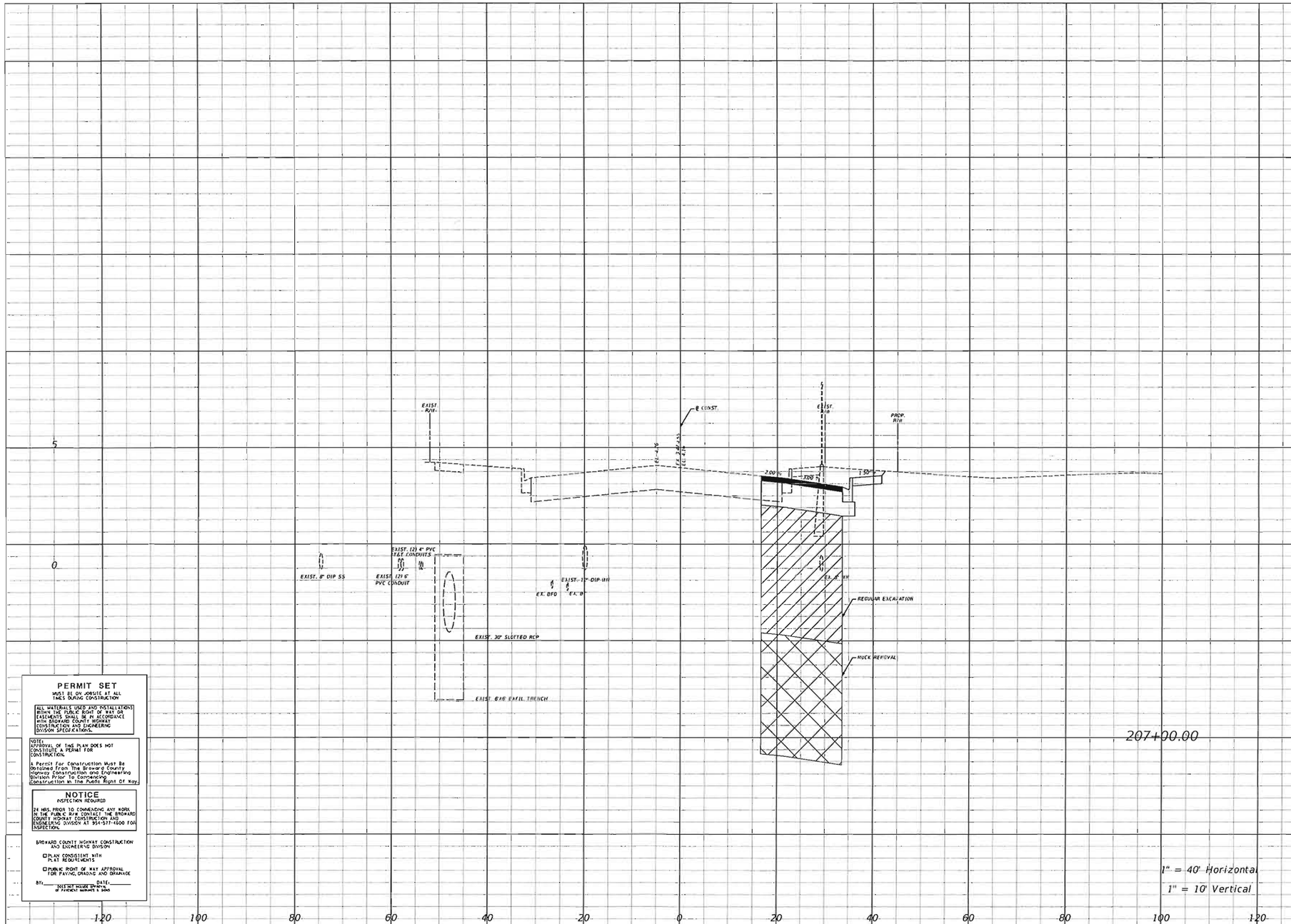
DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 14

BCHCED REF. NO: XXXXXXXXX



Regular Exc.		Embankment	
A	V	A	V
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	75.0		0.1

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BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
INSPECTOR NAME (PRINT)
OF PERMIT NUMBER & SIGN

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
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(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 15

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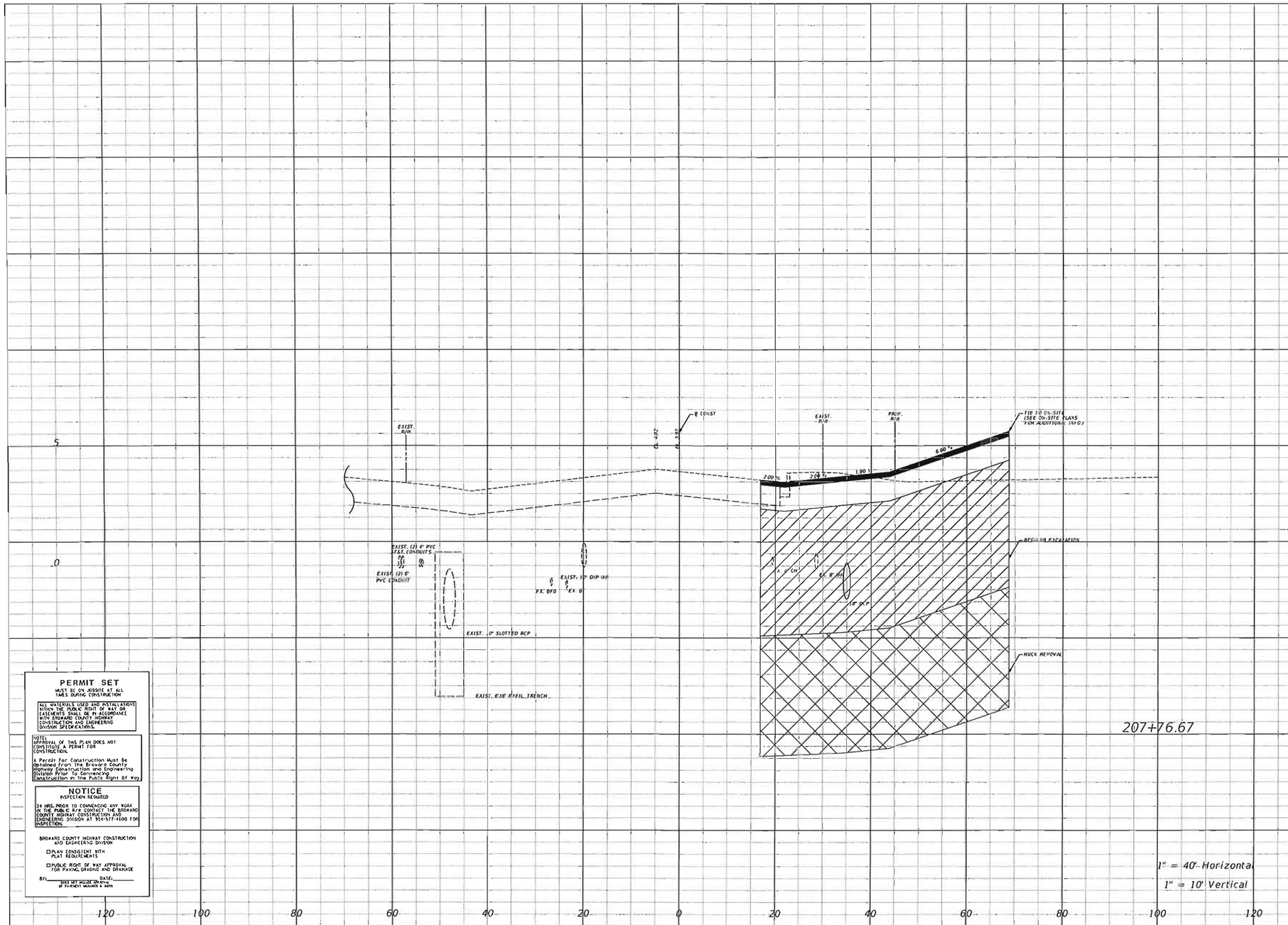

Regular Exc.		Embankment	
A	V	A	V
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	615.2		0.0

PERMIT SET

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BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY_____ DATE/_____

DOES NOT INCLUDE DRAINAGE OF PAVEMENT MARKINGS & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. KLEIER, P.E.
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SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 16

Matt.LeRette 8/4/2020 3:46:12 PM c:\pwworking\kha\pwprod\matt.lerette\dms68917\RDXSRD01.DGN

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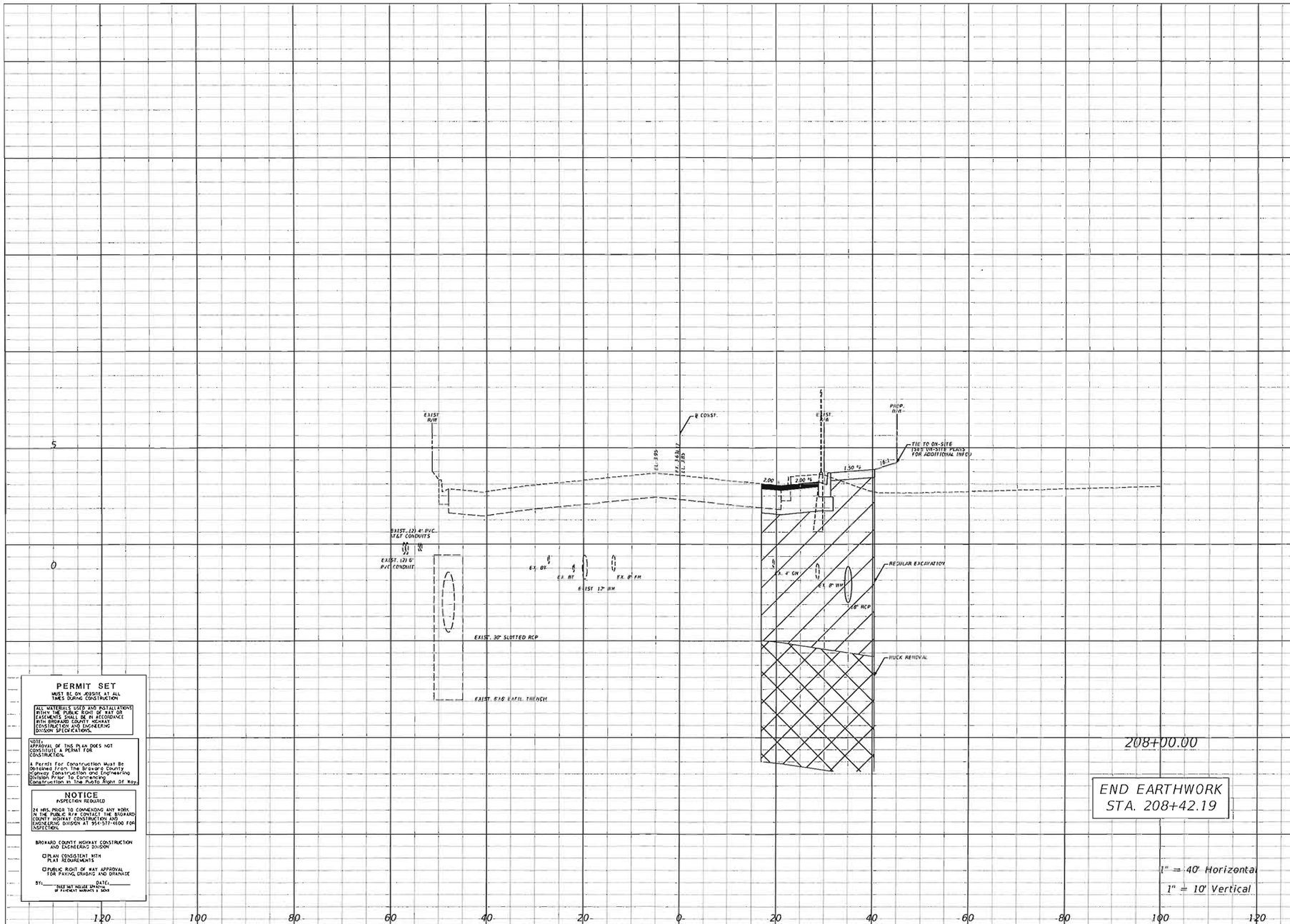


Regular Exc.		Embankment	
A	V	A	V
103.7		1.3	
	177.8		0.6

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT-OF-WAY, THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-537-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
(NOT VALID UNLESS SIGNED BY REPRESENTATIVE OF PLANNING WARRANTS & SIGNS)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

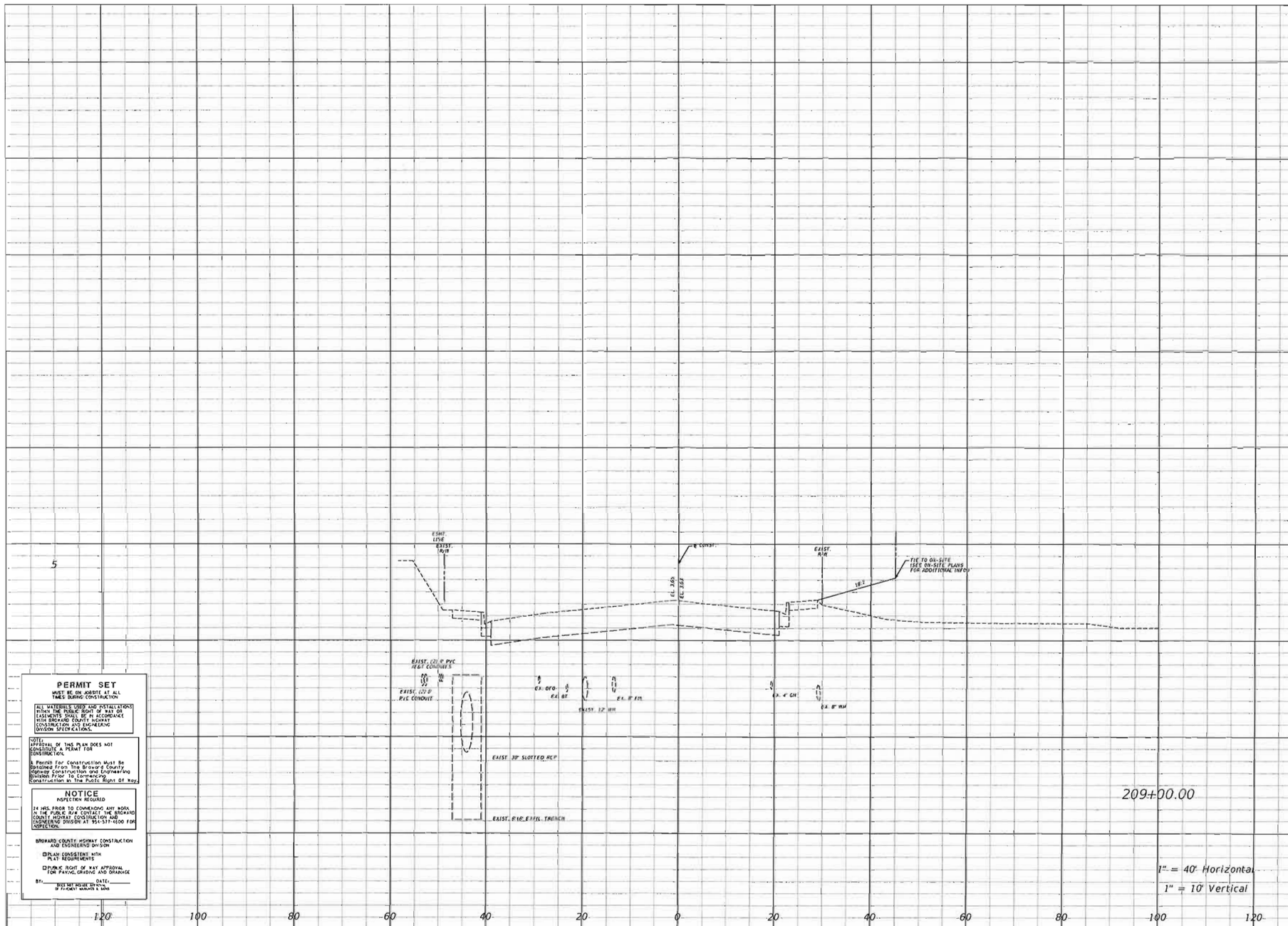
DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 17

BCHCED REF. NO: XXXXXXXXX

Regular Exc.		Embankment	
A	V	A	V



PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit for Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-537-6600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY_____ DATE:_____
DOES NOT INCLUDE ENGINEERING OF PAVEMENT MARKINGS & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 18

Matt.LeRette 8/4/2020 3:46:13 PM c:\pwworking\kha\pwprod\matt.lerette\dms68917\RDXSRD01.DGN

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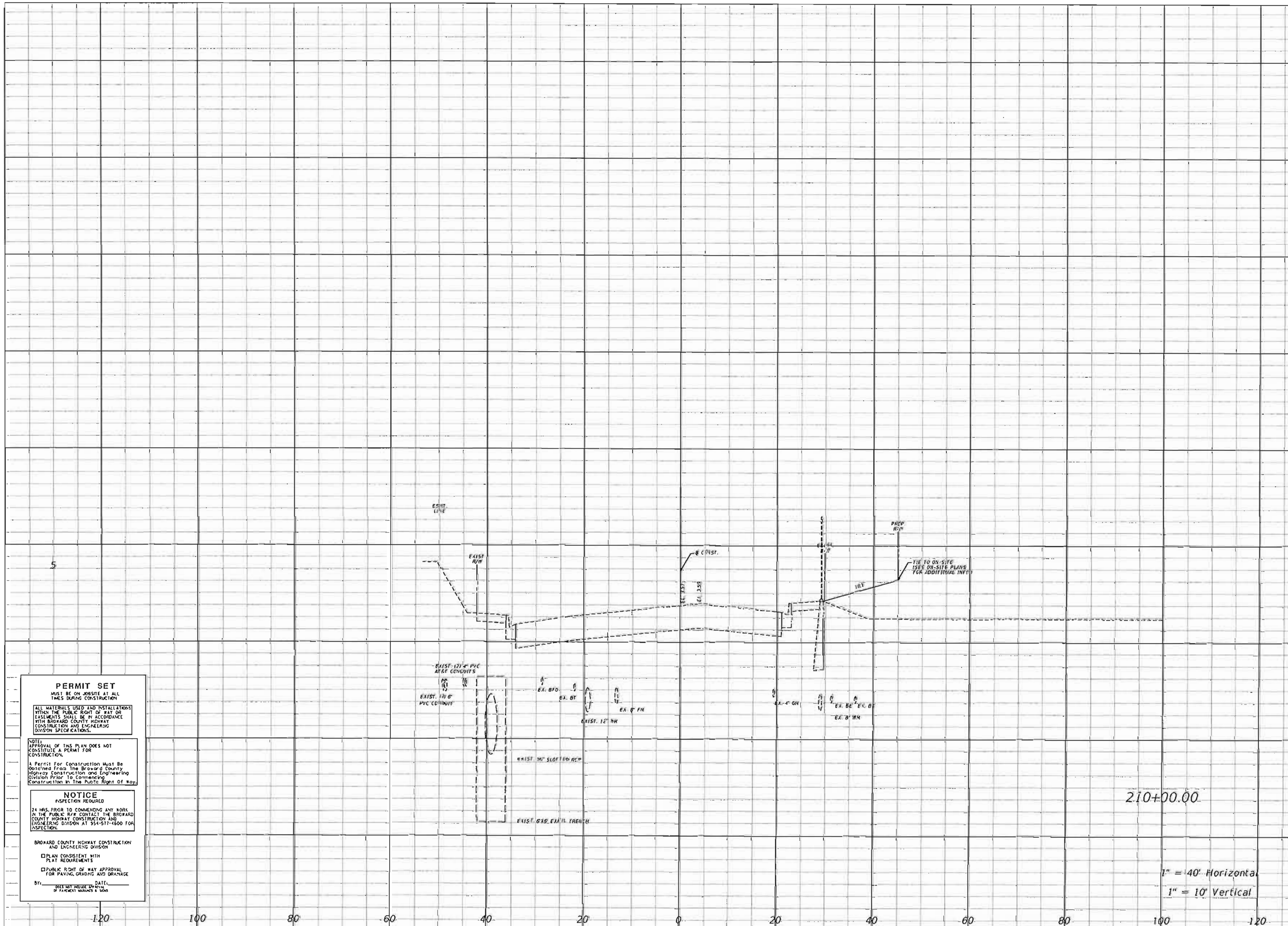
Regular Exc.		Embankment	
A	V	A	V



PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:__________ DATE:__________
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 19

Matt.LeRette 8/4/2020 3:46:13 PM c:\pwworking\kha\pwprod\matt.lerette\dms68917\RDXSRD01.DGN

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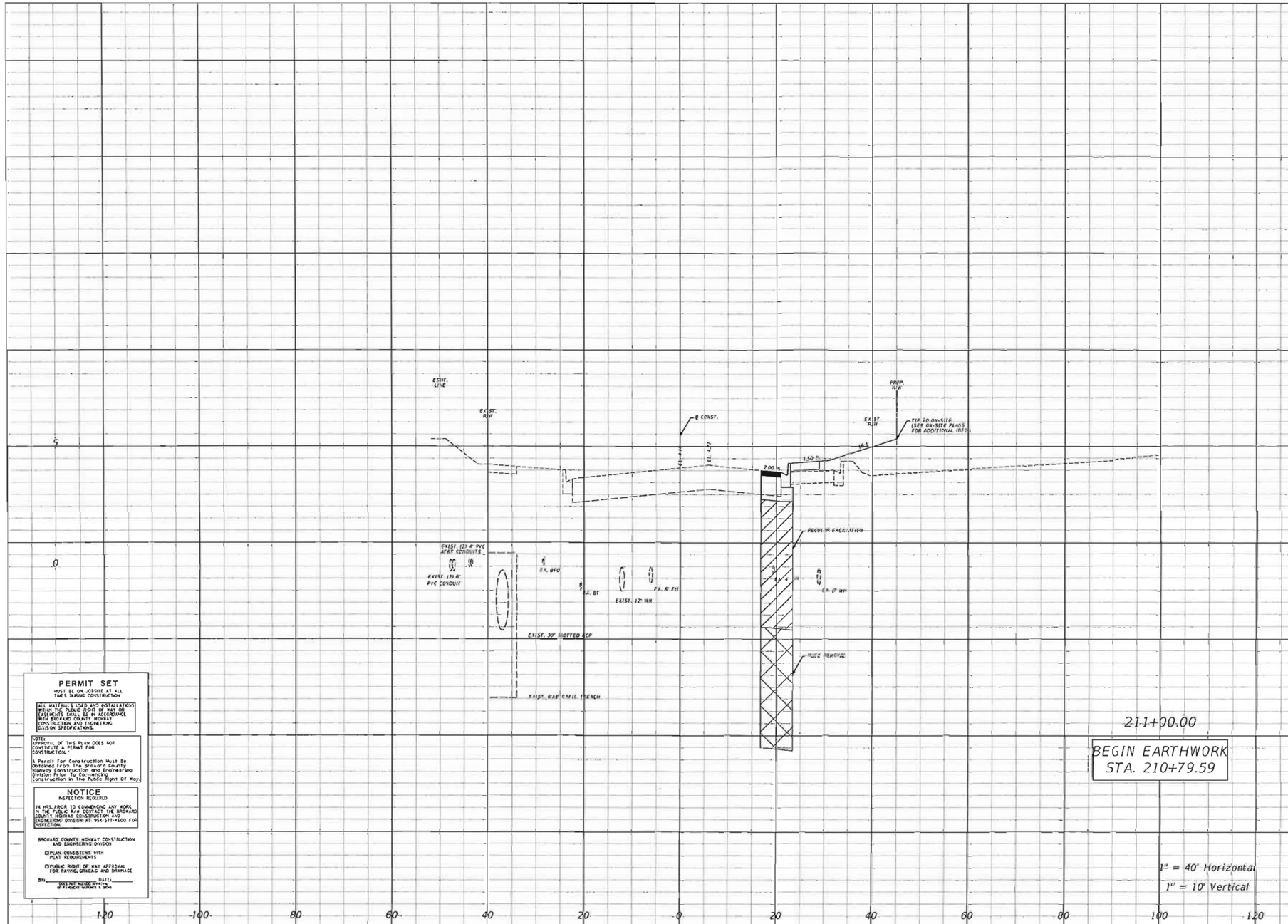


Regular Exc.		Embankment	
A	V	A	V
42.8		34.5	
	813.9		198.9

PERMIT SET

MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit for Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction in The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY_____ DATE:_____
DOES NOT INCLUDE SIGNING & MARKING OF PAVEMENT MARKINGS & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

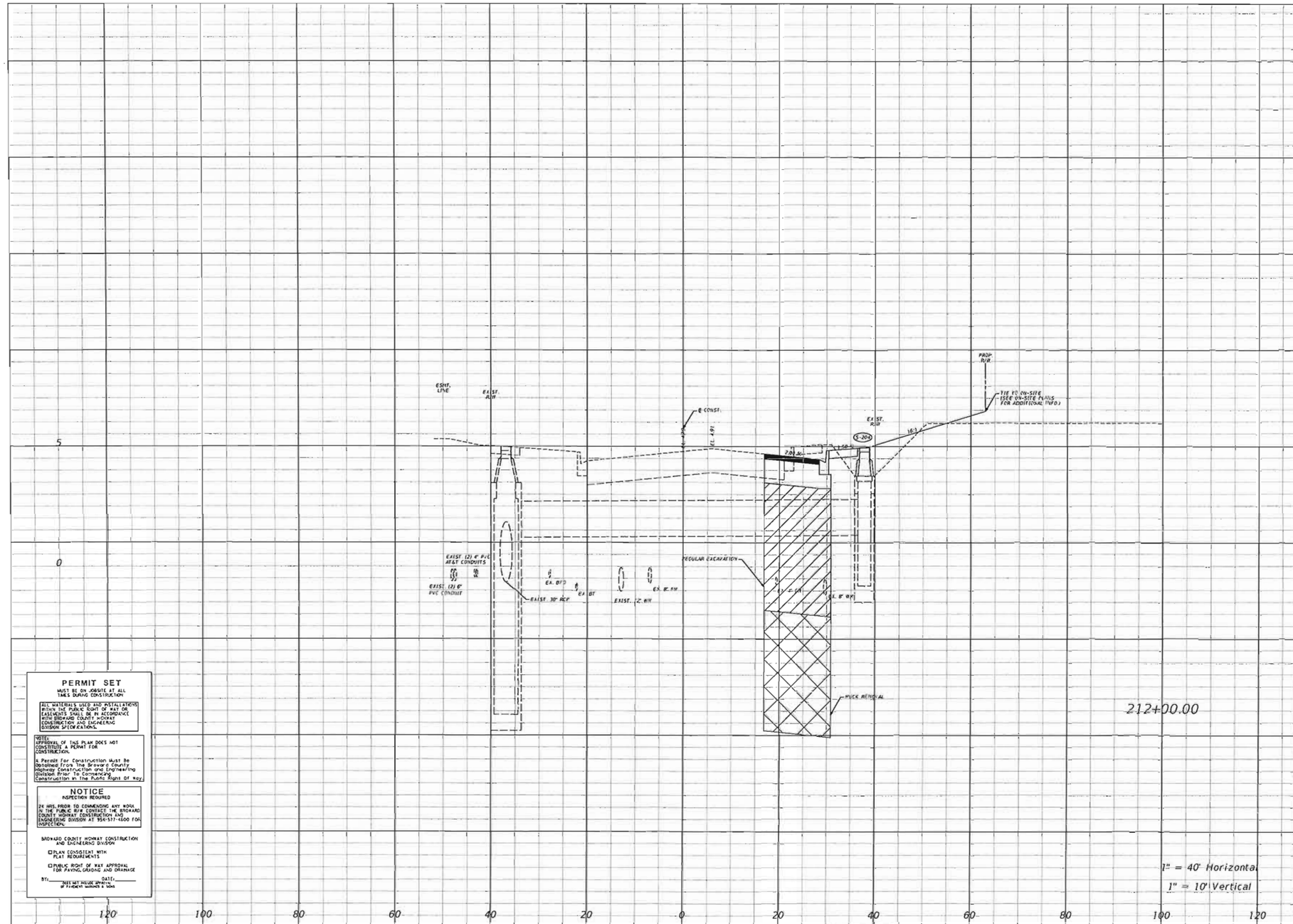
DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 20

BCHCED REF. NO: XXXXXXXXX



Regular Exc.		Embankment	
A	V	A	V
96.7		13.6	
	258.3		89.1

PERMIT SET

MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-537-1600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 21

Matt.LeRette 8/4/2020 3:46:13 PM c:\pwworking\kha\pwprod\matt.lerette\dms68917\RDXSRD01.DGN

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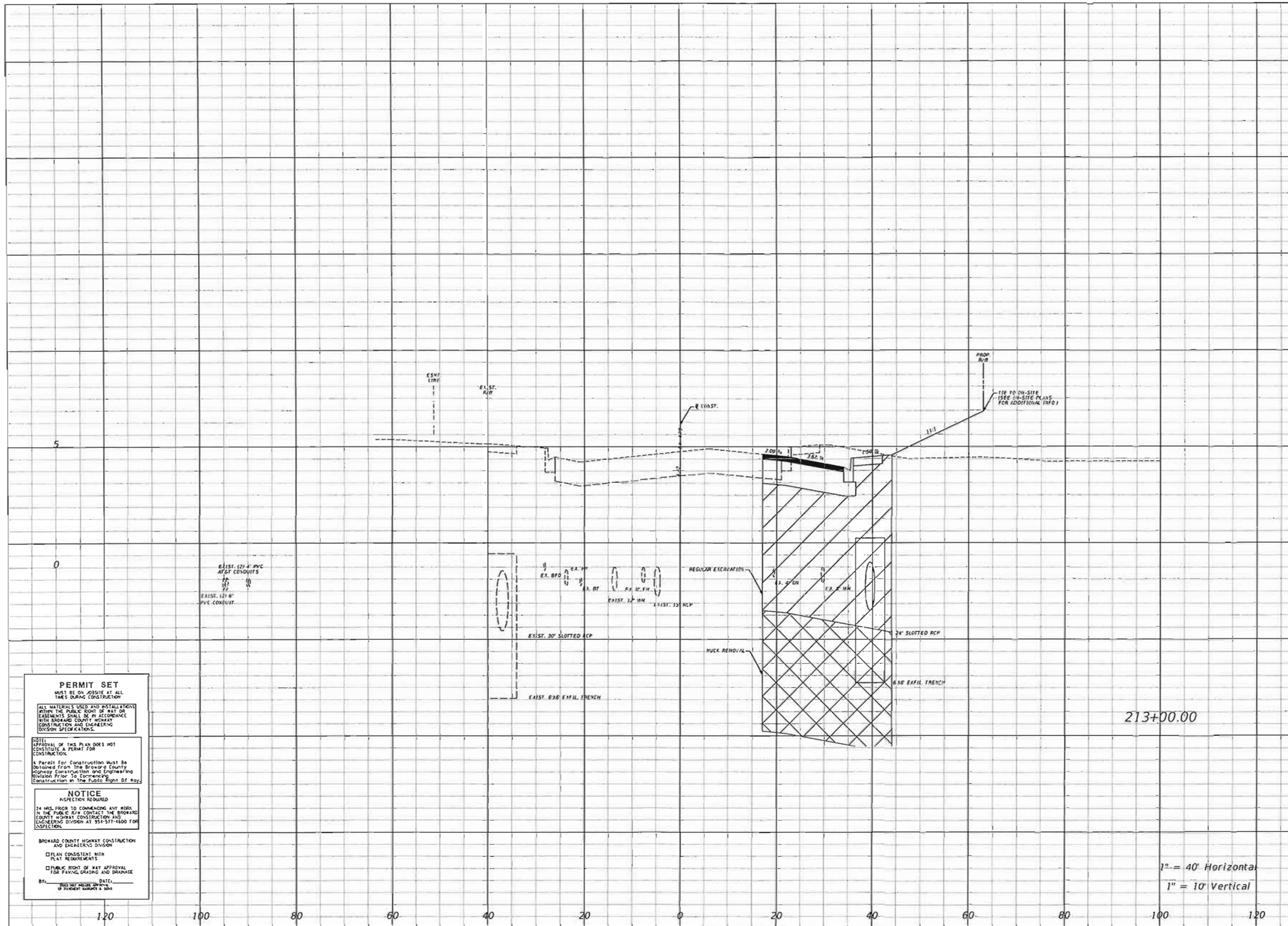


Regular Exc.		Embankment	
A	V	A	V
139.2		19.4	
	436.9		61.1

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENT SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit for Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction in The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4500 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING GRADING AND DRAINAGE

BY: _____ DATE: _____
(DOES NOT INCLUDE SIDEWALK OR PAVEMENT MARKINGS & SIGNS)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

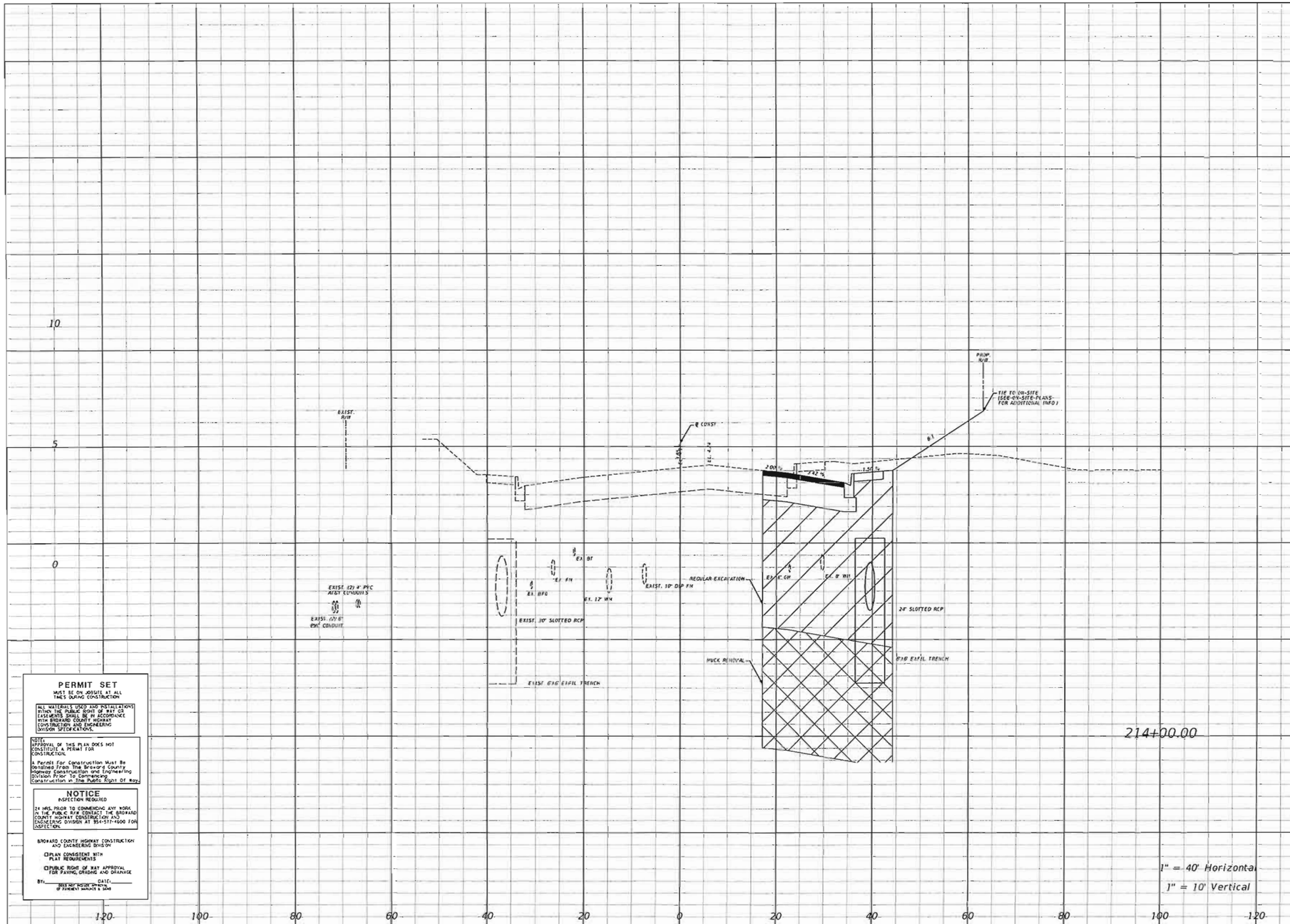
DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 22

BCHCED REF. NO: XXXXXXXXX



Regular Exc.		Embankment	
A	V	A	V
141.3		12.6	
	519.4		59.3

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC ROAD RIGHT OF WAY SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-537-1600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY_____ DATE:_____
(REVIEW BY BROWARD COUNTY DEPARTMENT OF ENVIRONMENTAL PROTECTION & GROWTH MANAGEMENT)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 23

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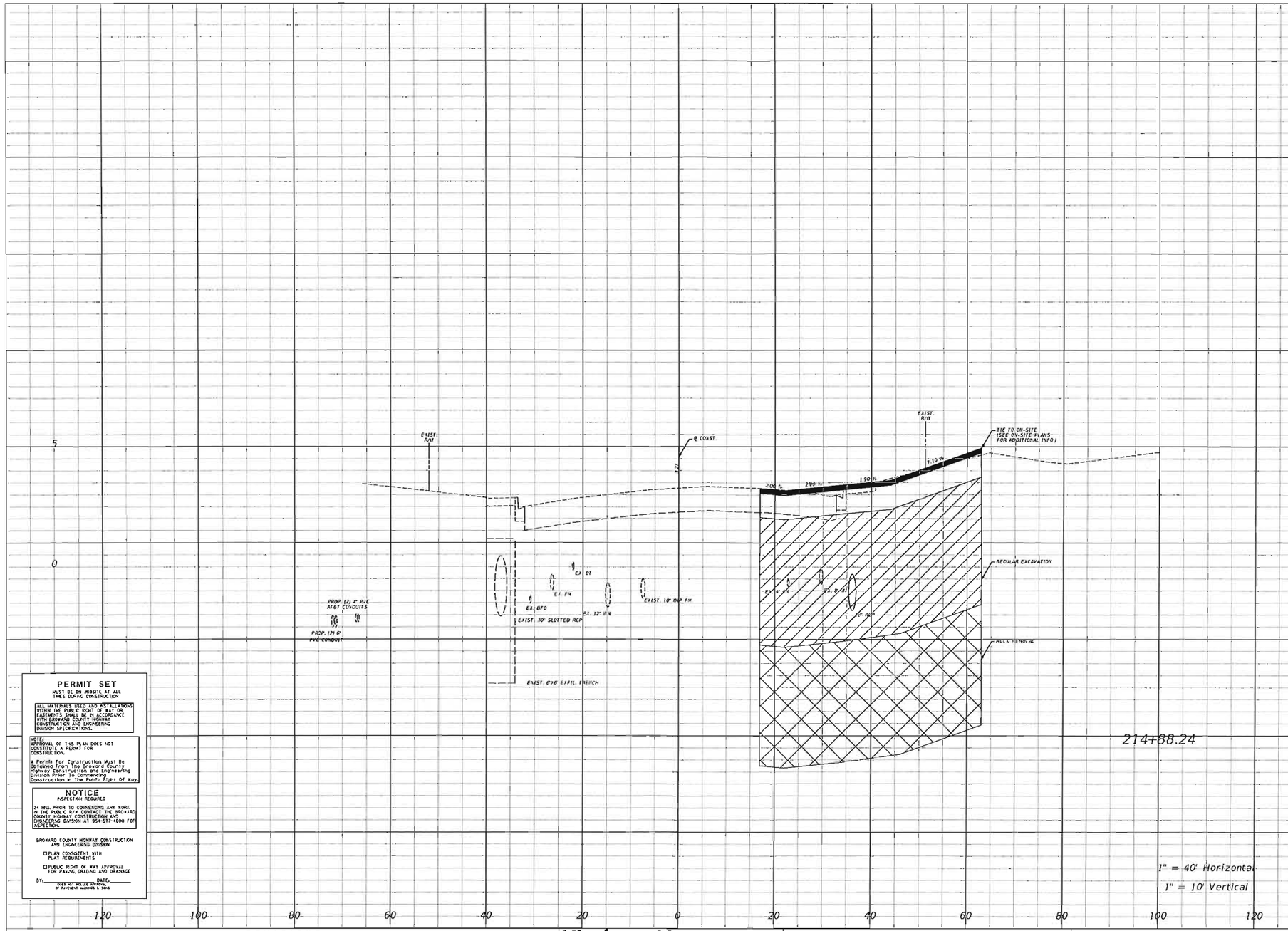

Regular Exc.		Embankment	
A	V	A	V
293.7		0.3	
	710.8		21.1

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

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NOTE:
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A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-537-1600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
DOES NOT INCLUDE SIGNING OF PAVEMENT MARKING & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

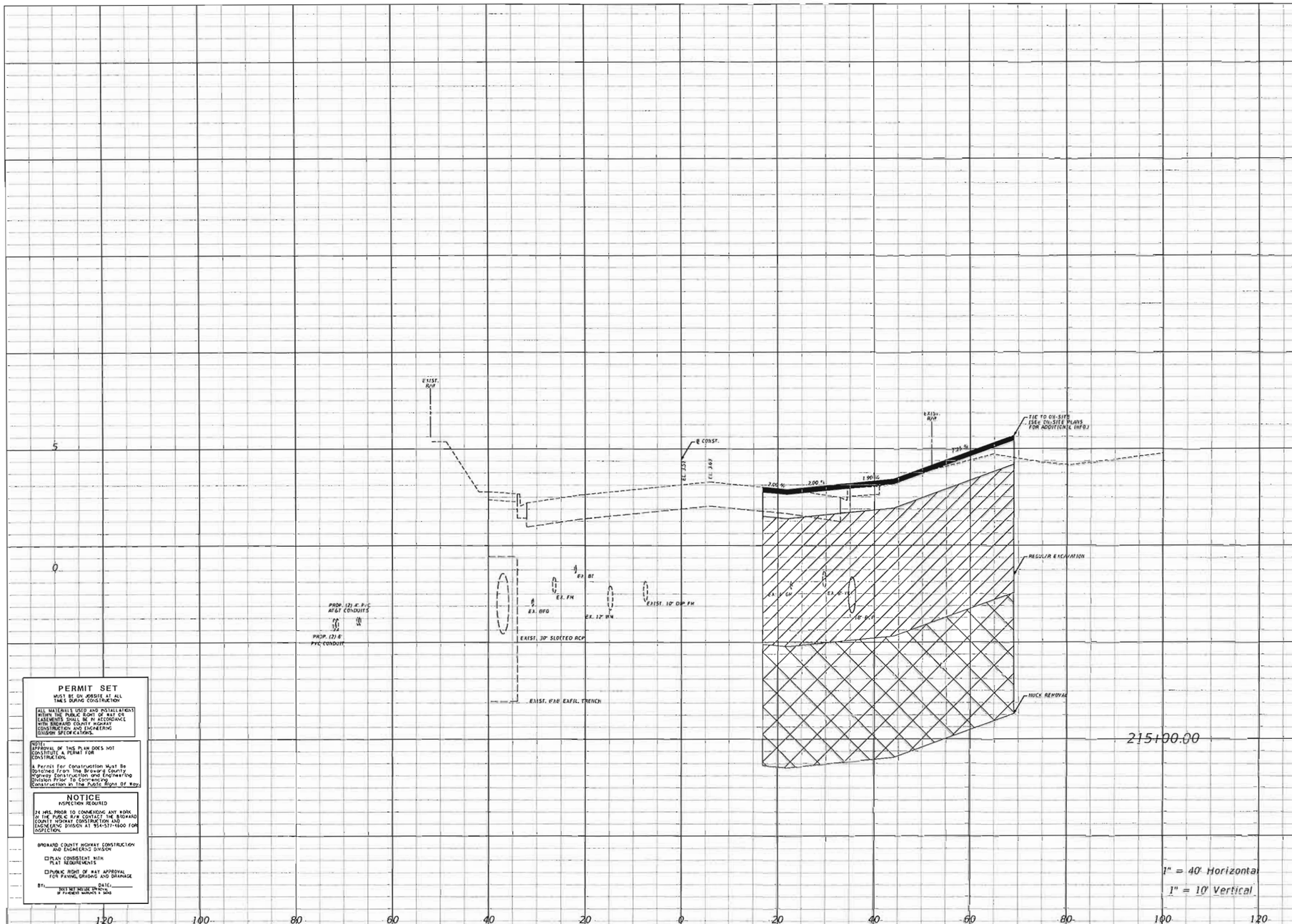
DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 24

BCHCED REF. NO: XXXXXXXXX



Regular Exc.		Embankment	
A	V	A	V
324.8		0.0	
	134.7		0.1

PERMIT SET

MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

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A Permit for Construction Must Be Obtained From the Broward County Highway Construction and Engineering Division Before Commencing Construction in The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
(NOT NOT VALID WITHOUT IN-HOUSE SIGNATURE)
(IF PLANNED WITHIN 1 YEAR)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 25

Matt.LeRette 8/4/2020 3:46:14 PM c:\pwworking\kha\pwprod\matt.lerette\dms68917\RDXSRD01.DGN

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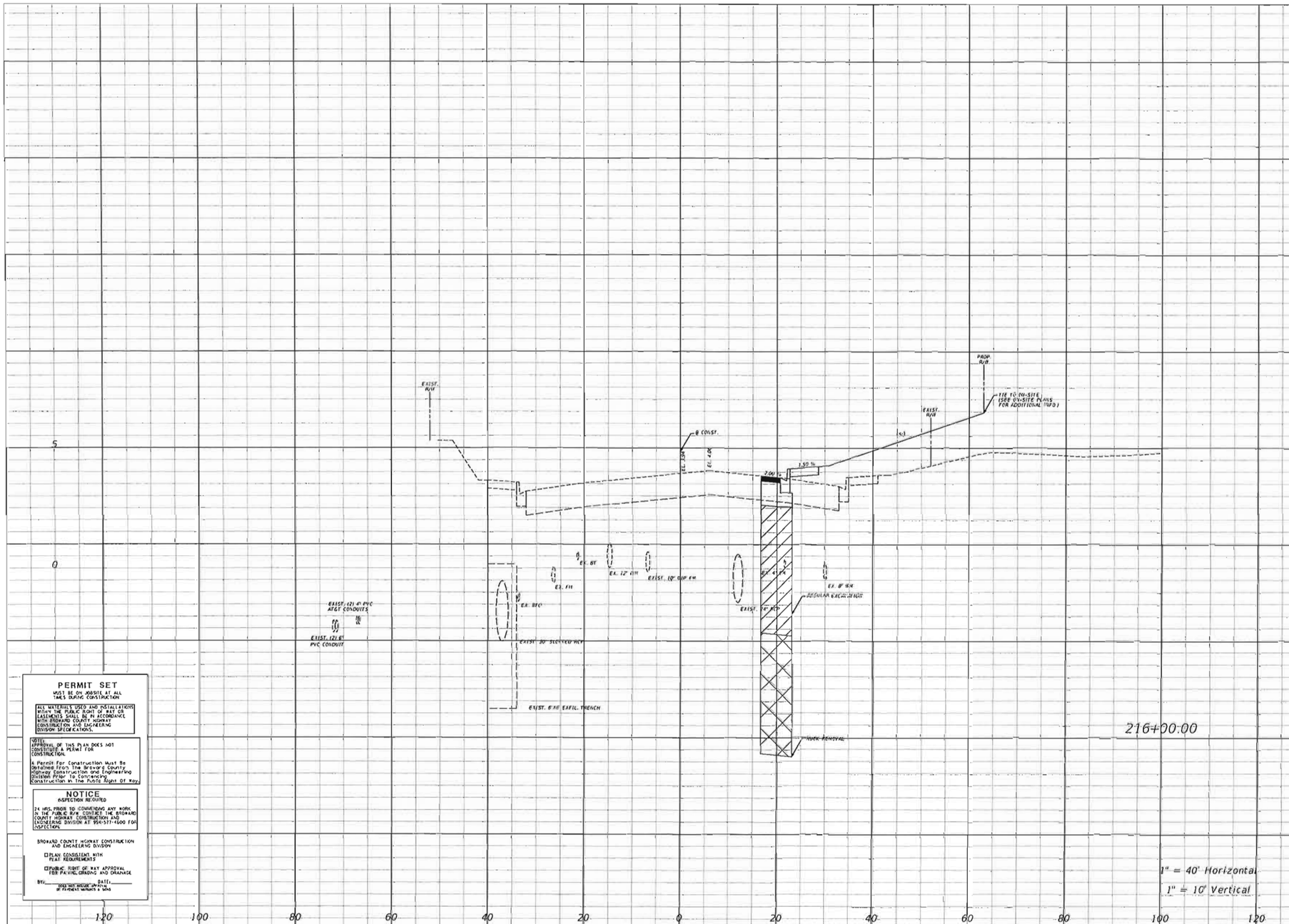

Regular Exc.		Embankment	
A	V	A	V
42.0		44.1	
	679.3		81.7

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
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A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 26

Matt.LeRette 8/4/2020 3:46:14 PM c:\pwworking\kha\pwprod\matt.lerette\dms68917\RDX5RD01.DGN

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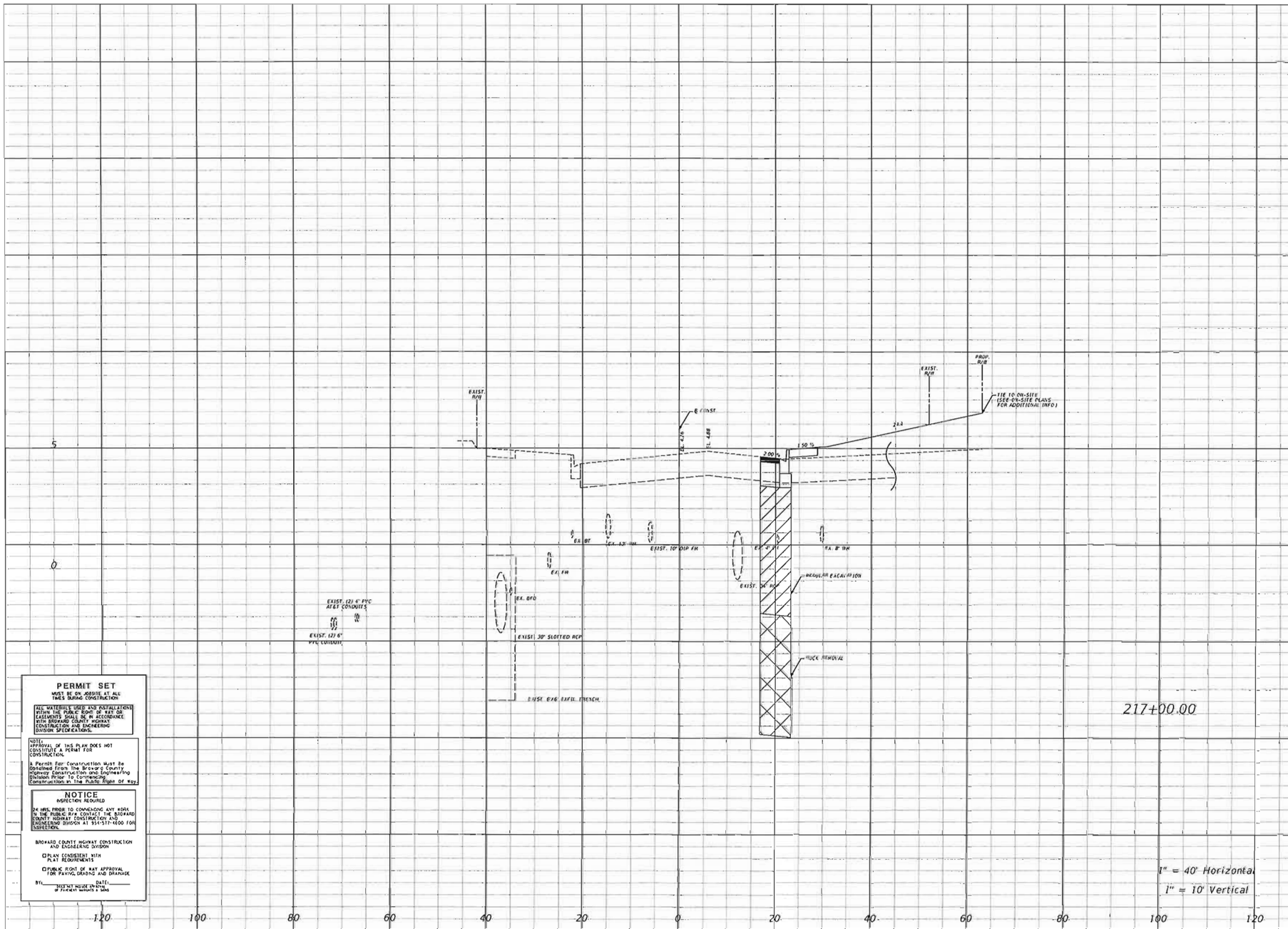


Regular Exc.		Embankment	
A	V	A	V
42.0		32.2	
	155.6		141.3

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
APPROVAL OF THIS PLAN DOES NOT CONSTITUTE A PERMIT FOR CONSTRUCTION.

A Permit For Construction Must Be Obtained From The Broward County Highway Construction and Engineering Division Prior To Commencing Construction In The Public Right Of Way.

NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-537-4200 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY_____ DATE:_____
DOES NOT INCLUDE UNDERLYING OF PAVEMENT MARKINGS & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 27

Matt.LeRette 8/4/2020 3:46:14 PM c:\pwworking\kha\pwprod\matt.lerette\dms68917\RDXSRD01.DGN

BCHCED REF. NO: XXXXXXXXX

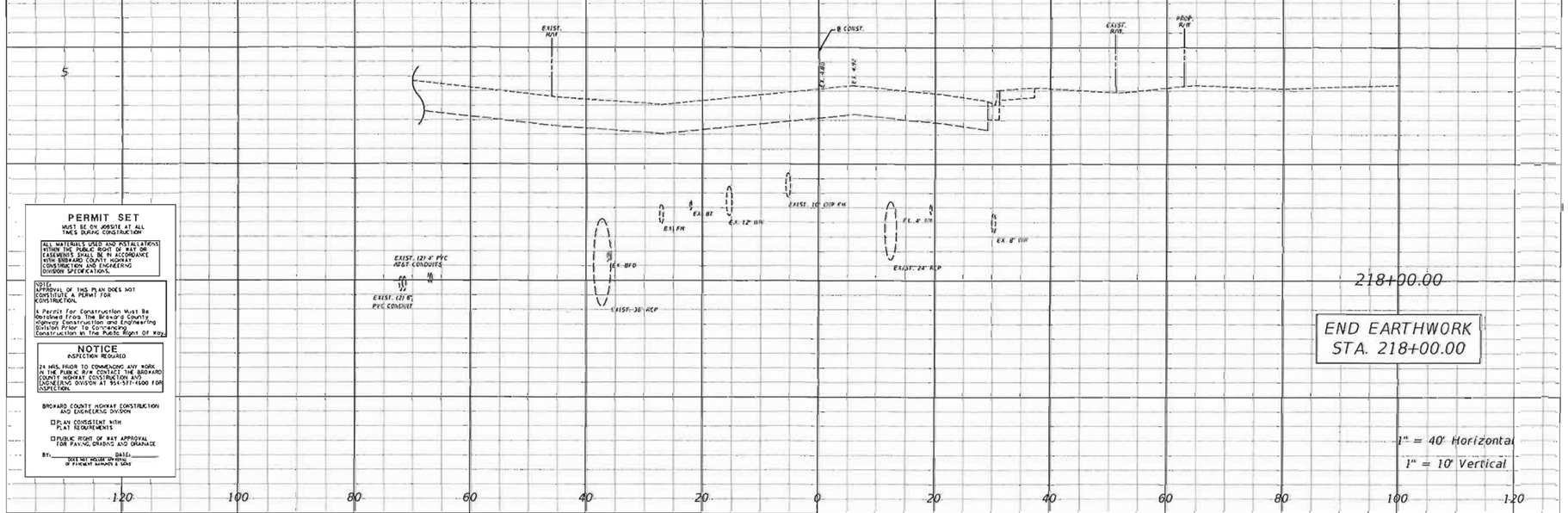
Regular Exc.		Embankment	
A	V	A	V

SUMMARY OF EARTHWORK

EXCAVATION = 4320 CY

EMBANKMENT = 480 CY

MUCK REMOVAL = 3323 CY



PERMIT SET

MUST BE ON WEBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

NOTE:
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NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-537-1600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____

DOES NOT INCLUDE SIGNING OF PAVEMENT MARKING & SIGNS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD CROSS SECTIONS

SHEET NO. 28

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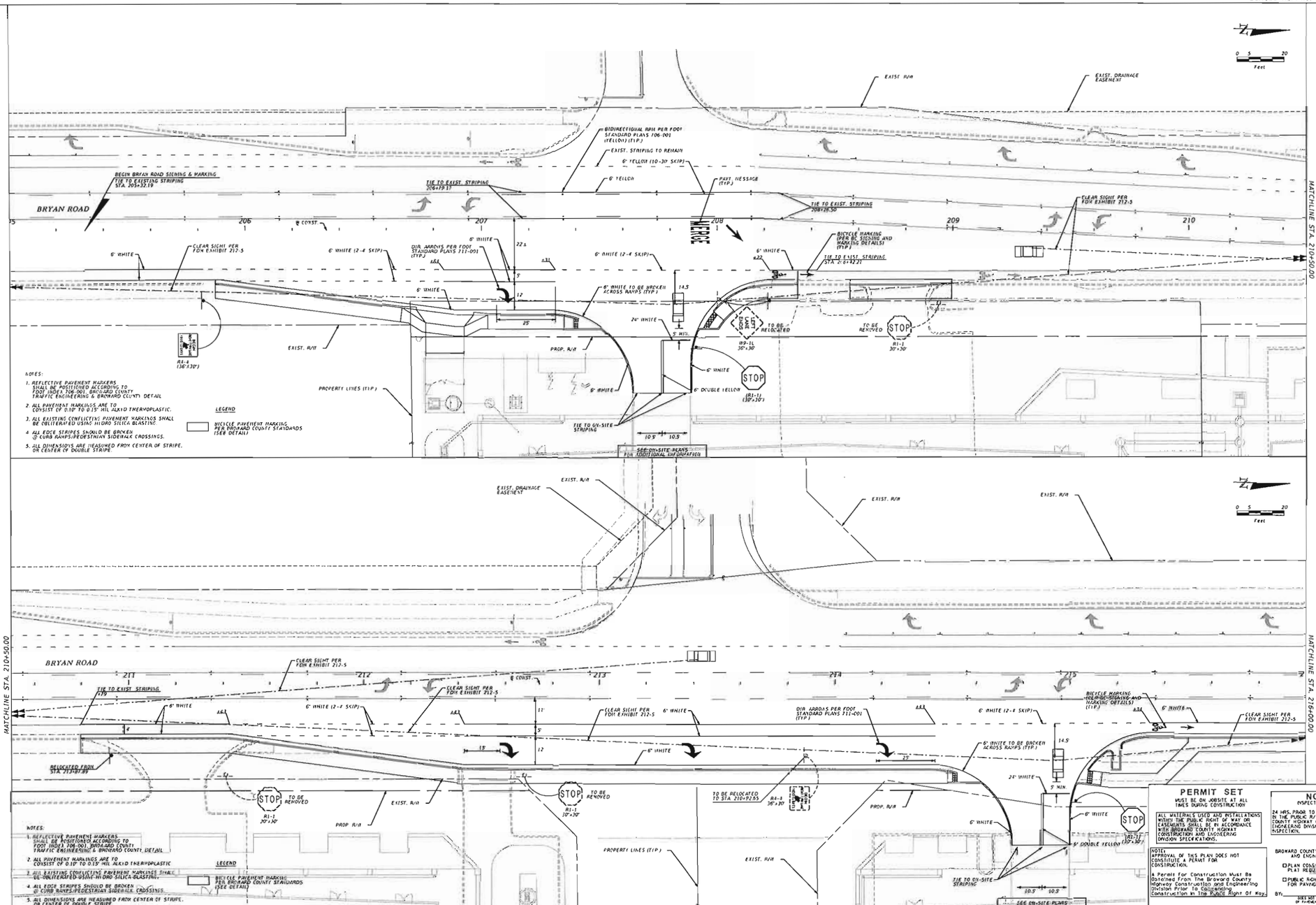

PERMIT SET
MUST BE ON JOBSITE AT ALL TIMES DURING CONSTRUCTION

ALL MATERIALS USED AND INSTALLATIONS WITHIN THE PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE IN ACCORDANCE WITH BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION SPECIFICATIONS.

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NOTICE
INSPECTION REQUIRED

24 HRS. PRIOR TO COMMENCING ANY WORK IN THE PUBLIC R/W CONTACT THE BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION AT 954-577-4600 FOR INSPECTION.

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION
☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS
☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE
BY_____ DATE_____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKINGS & SIGNS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
ERIC J. KLEIER, P.E.
P.E. LICENSE NUMBER 64076
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
CERTIFICATE OF AUTHORIZATION: 00000696

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD SIGNING AND MARKING

SHEET NO. 29

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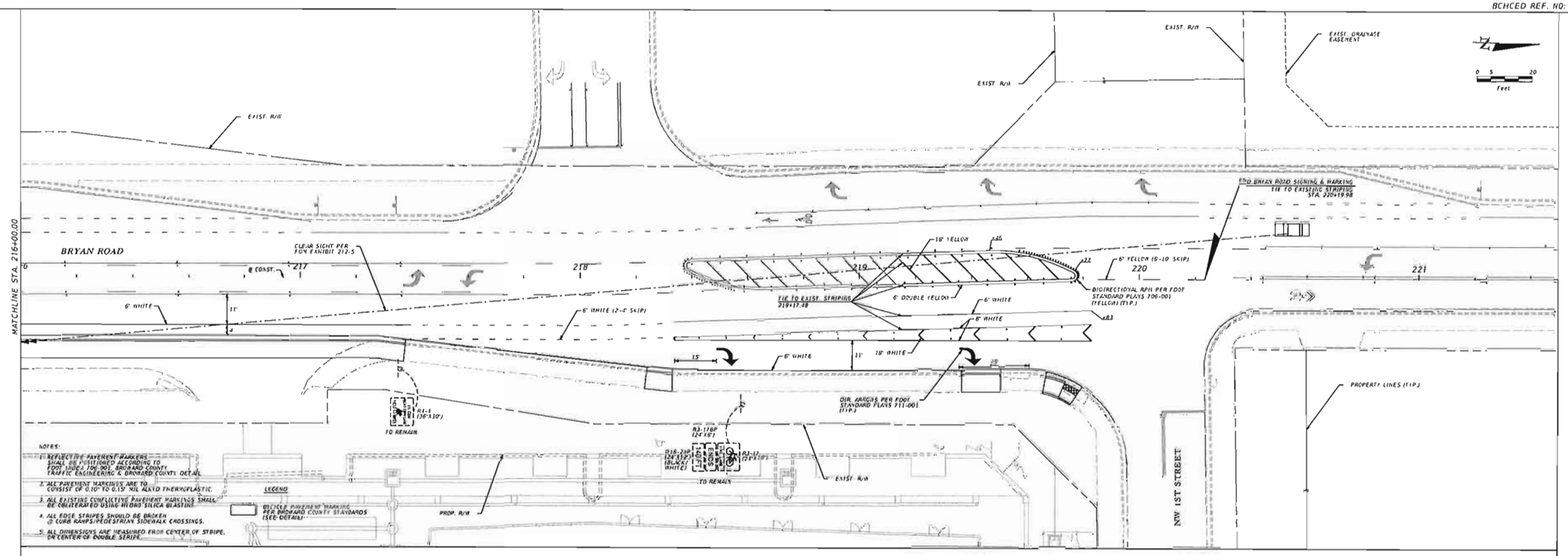

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SOUTH BRYAN ROAD SIGNING AND MARKING

SHEET NO. 30

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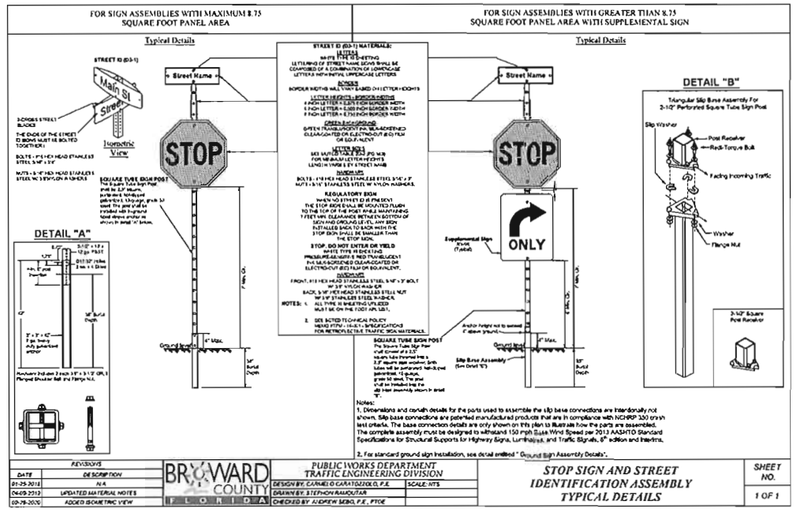

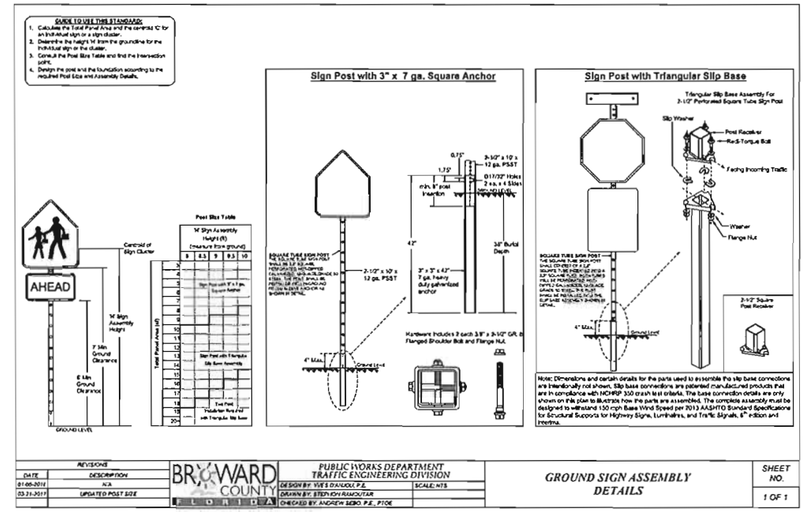

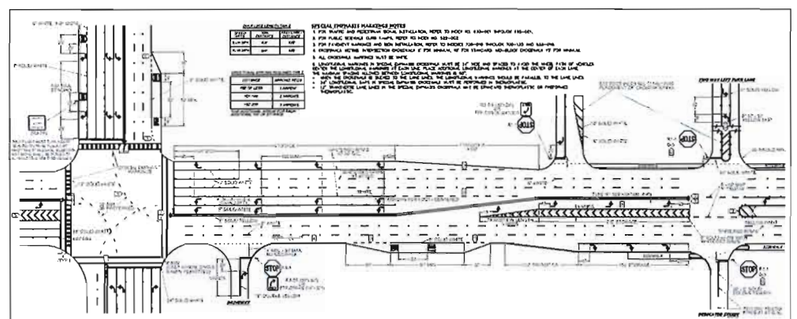

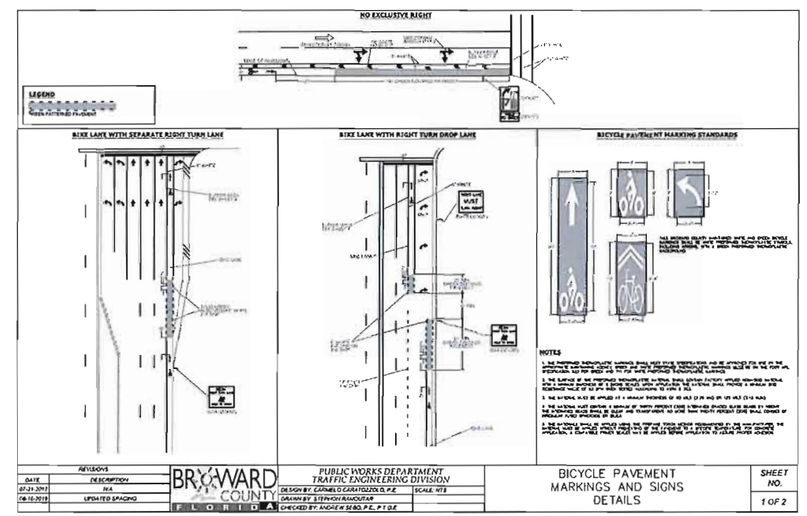

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BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION

☐ PLAN CONSISTENT WITH PLAT REQUIREMENTS

☐ PUBLIC RIGHT OF WAY APPROVAL FOR PAVING, GRADING AND DRAINAGE

BY:_____ DATE:_____
DOES NOT INCLUDE APPROVAL OF PAVEMENT MARKING & SIGNS

NOTES:

1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECT'S DESIGN OR OPERATION THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.

2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-MARKED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-MARKED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK ON ASPHALT WORK.

3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVER BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVER BRICKS, PAVEMENT MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-MARKED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-MARKED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, ADVANCED WARNING PAVEMENT MARKINGS FOR SPEED TABLES, BLINKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

SIGNING AND MARKING DETAILS

SHEET NO.
31

1. Site Description:

A. Construction Activity: Construction of safety improvements to Bryan Road, to include the addition of right turn lanes and driveway improvements.

B. Sequence of Major Soil Disturbing Activities: Soil disturbing activities will take place during much of the anticipated construction period of this project. The following soil disturbing activities are listed in the approximate order in which they are anticipated to occur.

1. Install Stabilized Construction Entrance(s)
2. Clearing and Grubbing
3. Stormwater Management Facility Construction
4. Excavation of Soils
5. Embankment Construction
6. Stabilization and Temporary Seeding
7. Roadway Grading and Construction
8. Final Grading and Seeding

C. Total Project Area: 1.103 AC
Total Area to be Disturbed: 0.06 AC

D. Runoff Data:
The following is a list of the drainage basin, the area of the basin and the runoff coefficient before, during, and after construction.

Basin	Area (AC)	Before Construction	During Construction	After Construction
BRYAN ROAD	1.103	0.542	0.558	0.574

E. Site Map: See KEY SHEET

F. Outfall(s) Locations.

Basin Outfall	Latitude (DMS)	Longitude (DMS)
	80° 09' 19" W	26° 03' 12" N

G. Receiving Waters: C-10 CANAL

2. Controls

A). Erosion and Sediment Controls: The soil erosion and sediment controls shall be maintained by the contractor to minimize the amount of soil disturbed, prevent offsite runoff from discharging across disturbed areas, and remove on-site pollutants prior to discharge of runoff from the site.

All items representing in the following discussion are treated in detail in the Florida Department of Transportation Standard Specifications for Road and Bridge Construction (2019) or will be implemented by the Engineer in a manner appropriate to environmentally sensitive construction practices. The contractor will generate site specific erosion control plan including an implementation schedule for each phase of construction operations or activities. The Contractor will also be required to modify the plan or materials to adapt to seasonal variations and supply contract time schedules for the implementation of each subunit.

(A) Stabilization Practices: During construction the contractor will provide temporary seeding for areas which have been cleared and not reworked within 14 calendar days. The entire cleared and ungraded portion of the project will be seeded or mulched and seeded upon completion. Bare soil areas will be kept to a minimum. Stabilization Practices will include:

Permanent seeding
Turfing sheet flows
Minimizing the area of disturbed soils at any given time
Preservation of natural vegetation
Soil retaining measures
Dust control

(B) Structural Practices will include:

Staked Silt Fences (If)
Synthetic Bales (If)
Rock Bags (ea)
Retention/Detention Ponds
Storm Drain Inlet Protection

(C) Phasing of Controls

Phase I - Installation of Environmental Control Features

a. Environmental control features as provided in Plans Quantities are to be installed throughout the clearing and grubbing limits or environmentally sensitive areas as shown in plans (prior to clearing and grubbing)

b. The contractor will be required to prepare a site specific erosion control plan along with a specific construction schedule for implementation. The contractor will also be required to modify the plan or materials to adapt to seasonal variations.

Phase II - Clearing and Grubbing

Clearing and grubbing shall be done as indicated on the typical sections or as noted in the plans.

Phase III - Excavation of Muck Soils and Embankment and Surcharge Construction

Environmental controls including synthetic bales, silt fences, sedimentation basins and other controls as appropriate, shall be in place prior to the initiation of embankment and surcharge area construction.

Phase IV - Drainage System or Environmental Control Features

a. Environmental control features as provided in Plans Quantities are to be installed in all areas of excavation or fill for drainage system or structure construction prior to such excavation or fill. All streams or ditches are to be protected from erosion or siltation by the methods detailed in the Stormwater Pollution Prevention Plan(SWPP). Inlet entrances are also to be protected from siltation as detailed in the SWPPP. These include staked synthetic bales, sediment basins, turbidity barriers, silt fence barriers and others, as appropriate.

b. The Contractor will be responsible for monitoring any activities for violation of water quality standards as they relate to turbidity (29 NTU's above background). Testing will take place to substantiate the impact of the project activity throughout the duration of the project. If the water quality standard is violated, sediment and erosion control measures will be reevaluated and reinstalled as directed by the Engineer.

Phase V - Permanent Environmental Controls

Temporary environmental controls will be removed after new roadways have been opened. Any permanent erosion, sediment and storm water control are in place and functioning. Final clean up will take place and any temporary surface water diversions or control features will be connected to the permanent stormwater management system.

B). Stormwater Management: Stormwater management will be via the permitted stormwater management system.

C) Other Controls

a) Waste Disposal: The contractor will provide litter control and collection within the project boundaries during construction activities. All fertilizer, hydrocarbon, or other chemical containers shall be disposed of by the contractor according to EPA's standard.

b) Off-Site Vehicle Tracking: Will be controlled by the following methods:
- Haul Roads Dampened For Dust Control
- Loaded Haul Trucks To Be Covered with Tarpaulin
- Excess Dirt on Roads To Be Removed Daily
- Soil Tracking Prevention Device Type A (Index 106)

c) Sanitary Waste: Any field offices will have portable toilet facilities or the contractor will obtain permits for sewage treatment in accordance with 10D-6 F.A.C. "Standards for On-Site Sewage Disposal Systems".

c) Fertilizers and Pesticides: Fertilizers will be used on this project in accordance with FDOT Standard Specifications for Road and Bridge Construction (2014) Section 982. To avoid nutrient loading to surface waters, fertilizers used on this project will not be applied within fifty (50) feet of any surface waters within the project limits.

D). Permits

The following permits have been obtain for the project:

SFWMD Environmental Resource Permit

The contractor is responsible for obtaining the following permits.
FDEP - NPDES Permit
SFWMD - Temporary Dewatering Permit (if needed)

Additional permit fees are to be included in the cost of Mobilization 101-1

3. Maintenance

The Contractor shall be responsible for daily inspection and maintenance of all erosion control devices throughout the construction phase of the project. Maintenance shall be conducted in accordance with "FDOT Standard Specifications for Road and Bridge Construction (2019) Section 104 and "FDOT Roadway and Traffic Design Standards (2019) standard indexes 100 - 105 or as directed by the Engineer.

The Contractor will be responsible for maintenance and repairs of erosion and sediment control devices, and removal of erosion and sediment control devices until acceptance of the completed project by FDOT.

Maintenance and repair required for the control and abatement of erosion and water pollution shall be included in the cost of Pay Item 104-10-3.

The following practices will be used to maintain erosion and sediment controls:

General:

The Contractor shall install and maintain rain gauges on the project site and record weekly rainfall in accordance with NPDES Permit No. FLR 100000. All control measures will be maintained by the Contractor.

All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of report.

Structural Practices Controls

Built-up sediment will be removed from silt fence and staked turbidity barriers no later than when it has reached one-third the height of the fence.

Temporary and permanent seeding, sodding and planting will be inspected for bare spots, washouts, and healthy growth.

Soil tracking prevention device, Type A shall be maintained to prevent clogging of rock bedding which may impede the usefulness of the structure.

Floating turbidity barrier will be maintained with respect to depth of sediment and ensure that the fabric is attached securely to the floats and anchored properly at the bottom for proper sediment control.

4. Inspection

All erosion and water pollution abatement and control measures will be inspected daily by the Contractor.

Inspections are to be performed by qualified personnel who have completed the Florida Storm water, erosion and sediment control training and certification program for inspectors and contractors who have passed the examination.

Inspection Areas: Locations or areas to be inspected include but are not limited to:

- Discharge points to waters of the United States
- Discharge points to MS4 facilities
- Areas for meeting the Final Stabilization criteria
- Materials storage/stockpiles
- Sedimentation facilities
- Structural facilities
- Vehicle Entrances/Exits
- On-site stormwater management systems

The Contractor shall use the Construction Inspection Report form 650-040-03 for daily inspections

The Contractor's daily inspections required for the control and abatement of erosion and water pollution shall be included in the cost of Pay Item 104-10-3.

Tracking and Reporting

The Contractor is responsible for completing the inspection report form 650-040-03 every 7 days and within 24 hrs of any 0.25 inch (or more) rainfall event. A copy of the inspection report shall be submitted to the Engineer weekly.

The Department shall maintain all records submitted by the Contractor.

Preparation of the Contractor's weekly reports of inspections, maintenance and repairs required for the control and abatement of erosion and water pollution shall be included in the cost of Pay Item 104-10-3

5. Non-Storm Water Discharge and Hazardous Waste

The Contractor will provide FDOT with an erosion control plan that incorporates the construction schedule and will include spill reporting and response. When the Contractor encounters a spill, construction will stop and work will not resume until directed by the Engineer. Disposition of hazardous waste will be made in accordance with any requirements and regulations of any local, state or federal agency having jurisdiction. If contaminated soil or groundwater is encountered, contact FDOT Hazardous Materials Coordinator.

6. References

The construction plans and specifications for Safety Improvements are hereby referenced and made part of this Stormwater Pollution Prevention Plan.

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DANIA BEACH MARINA

DANIA BEACH MARINA CORPORATION

EROSION CONTROL GENERAL NOTES

SHEET NO. 32

BCHCED REF. NO: XXXXXXXXX

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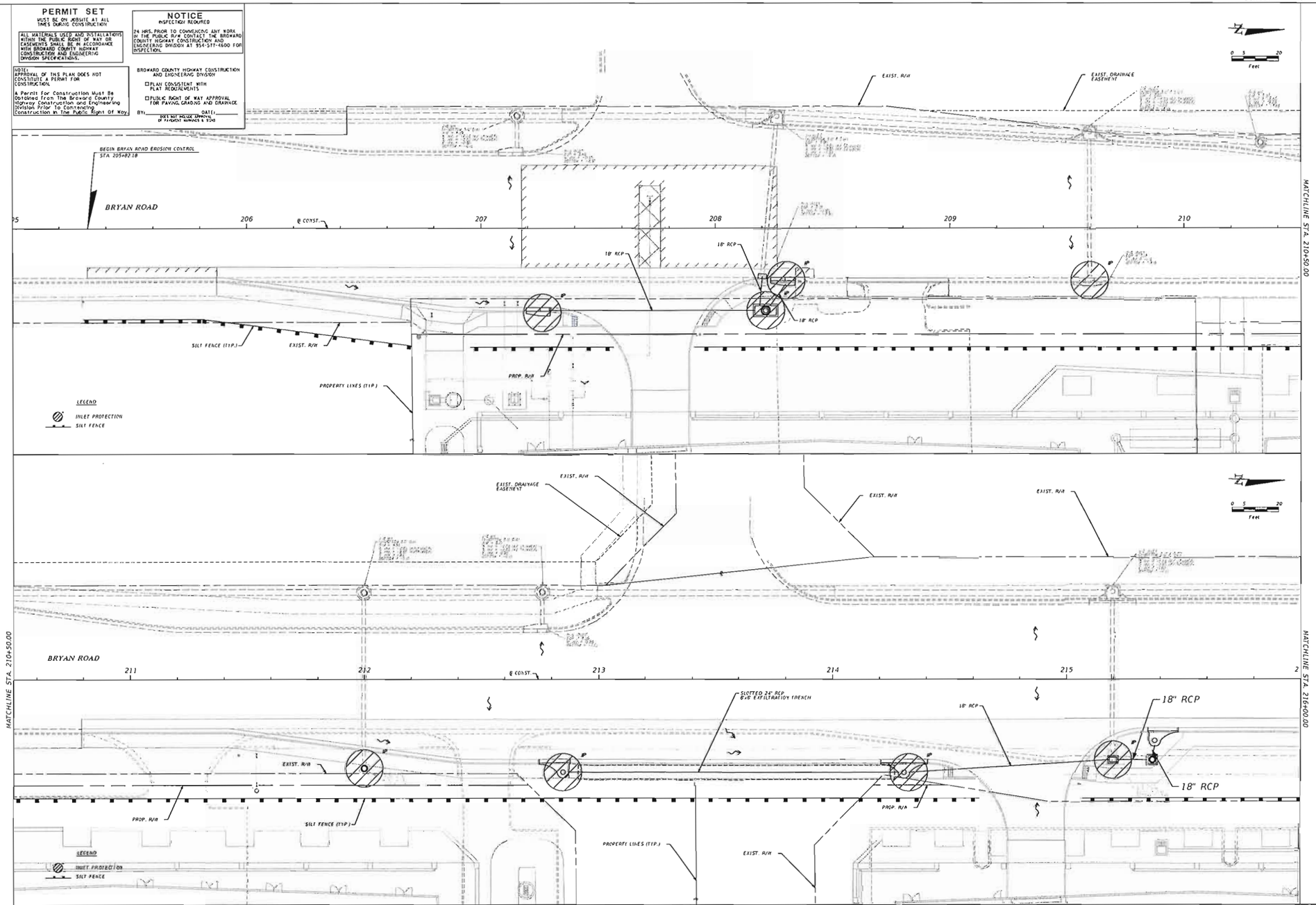

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SOUTH BRYAN ROAD EROSION CONTROL

SHEET NO. 33

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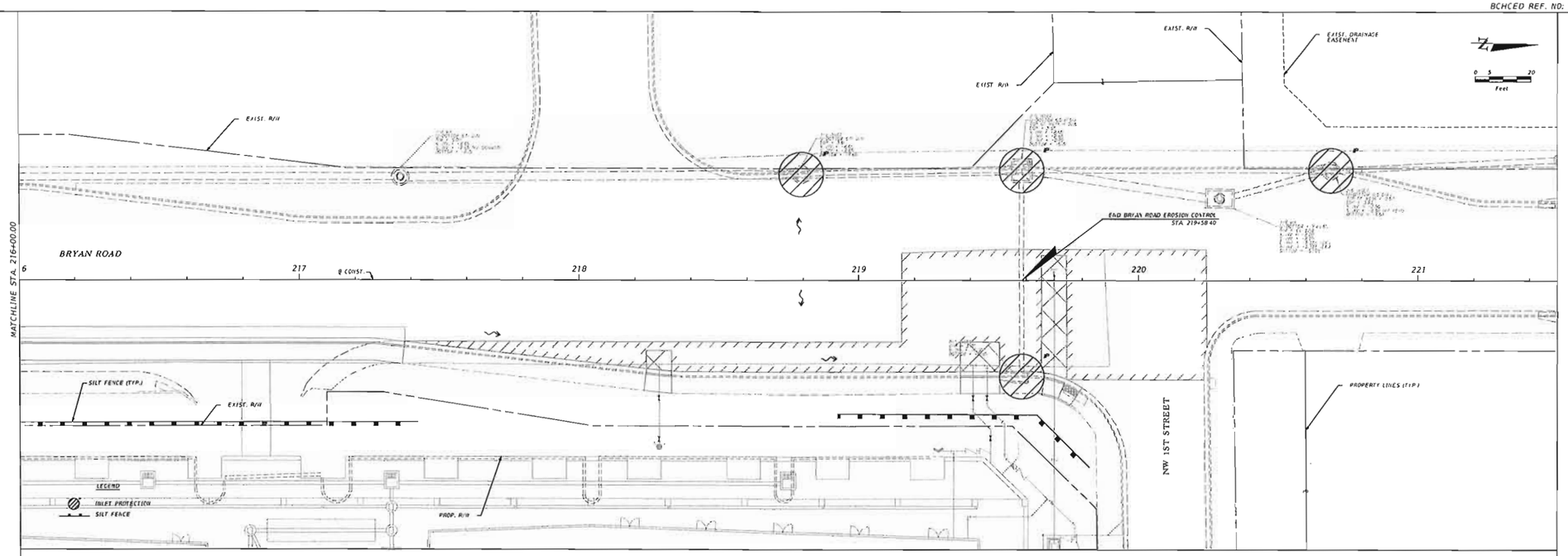

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DANIA BEACH MARINA CORPORATION

SOUTH BRYAN ROAD EROSION CONTROL

SHEET NO.
34

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. THE FOLLOWING MAINTENANCE OF TRAFFIC DETAILS FROM FDOT STANDARD PLANS SERIES 102: 600, 611, 612, 613, 614, 619 AND 660 HAVE BEEN PROVIDED TO GIVE THE CONTRACTOR GENERAL DIRECTION. THE CONTRACTOR SHALL DEVELOP DETAILED TRAFFIC CONTROL PLANS THAT MUST BE APPROVED BY THE BROWARD COUNTY TRAFFIC ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

2. AT NO TIME SHALL THE CONTRACTOR CLOSE THE ROAD TO THROUGH TRAFFIC. LANE CLOSURES MUST BE APPROVED BY THE BROWARD COUNTY TRAFFIC ENGINEER AT LEAST TWO WEEKS PRIOR TO CLOSURE.

3. THE CONTRACTOR SHALL CONTACT IN WRITING ALL AFFECTED PROPERTY OWNERS 2 WEEKS PRIOR TO CONTRACTOR STARTING CONSTRUCTION. CONTRACTOR MUST MAINTAIN ACCESS TO ALL BUSINESS AND RESIDENCES AT ALL TIME.

4. NOT MUST BE IN COMPLIANCE WITH FDOT STANDARD PLANS SERIES 102 AND MUTCD (W/ REVISIONS)

5. PEDESTRIAN WALKWAY MUST FOLLOW FDOT STANDARD PLANS SERIES 102 PEDESTRIAN CONTROL FOR CLOSURE OF SIDEWALKS

6. AT THE END OF EACH DAY, THE FDOT STANDARD PLANS SERIES 102 SHOULDER TREATMENT MUST BE FOLLOWED

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A DETAIL MAINTENANCE OF TRAFFIC PLAN TO THE BROWARD COUNTY TRAFFIC ENGINEER TWO WEEKS PRIOR TO ANY CONSTRUCTION FOR APPROVAL.

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TRAFFIC CONTROL GENERAL NOTES

SHEET NO.
35

24-20
62-19

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TRAFFIC IMPACT ANALYSIS

DANIA BEACH MARINA REDEVELOPMENT: 70 WAVE AND 90 WAVE

DANIA BEACH, FL

PREPARED FOR:

DANIA BEACH MARINA CORPORATION

Kimley»Horn

February 27, 2020
Revised June 26, 2020
Revised July 29, 2020
Revised August 27, 2020
Kimley-Horn Project #147706000
CA 00000696
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TRAFFIC IMPACT ANALYSIS

DANIA BEACH MARINA REDEVELOPMENT: 70 WAVE AND 90 WAVE

DANIA BEACH, FL

Prepared by:
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EXECUTIVE SUMMARY

Kimley-Horn and Associates, Inc. has completed the following traffic evaluation for the proposed developmental changes to be made at the site located on the east side of Bryan Road, between Stirling Road and Old Griffin Road in Dania Beach, Florida. The site currently consists of a variety of maritime uses including a marina and recreational vehicle sales centers. Proposed redevelopment includes converting these existing maritime sites into 760 multifamily high-rise apartments, 16,000 square feet of general office, 50,000 square feet of restaurant space, and 20,000 square feet of general commercial use.

This document includes the analysis conducted to determine the impacts of redevelopment on the surrounding roadway network. Data collection was conducted on Thursday, September 12, 2019. Turning movement counts (TMCs) were collected at three major intersections directly impacted by the proposed project, listed as follows:

- Stirling Road & Bryan Road
- NW 1st Street & Bryan Road
- Old Griffin Road & Bryan Road

A capacity analysis of Bryan Road was also conducted to determine the roadways level of service based on future demand. A link capacity analysis has also been conducted to evaluate the roadway capacity based on demand of the surrounding network.

As identified in the analysis, the applicant will dedicate additional right-of-way along the site frontage that could accommodate any future widening of Bryan Road if that were to occur in the future. Additionally, the applicant will be constructing right turn deceleration lanes at the site driveways to add capacity for vehicles turning into and out of the proposed buildings on site.

INTRODUCTION

The proposed plan of development will include two (2) high-rise buildings with the lower floors of each consisting of commercial, restaurant, office uses, and parking and the remaining floors being occupied by multifamily housing. The total proposed development on both sites will be 760 dwelling units, and 16,000 SF of general office, 50,000 SF of restaurant space, and 20,000 SF of general commercial use. The site is located between NW 1st Street and Stirling Road on the east side of Bryan Road in Dania Beach, Florida. Figure 1 illustrates the location of the project site and the surrounding Trafficways facilities. The folio numbers for the project site are listed below:

- 504233000600
- 504233320010

Kimley-Horn and Associates, Inc. was retained to prepare a traffic impact analysis to evaluate the impacts resulting from buildout of this site by 2024. This document presents the methodology used and the findings of the traffic impact analysis. The analysis was conducted in accordance with the requirements of the City of Dania Beach, Florida. Figure 1 illustrates the location of the site.

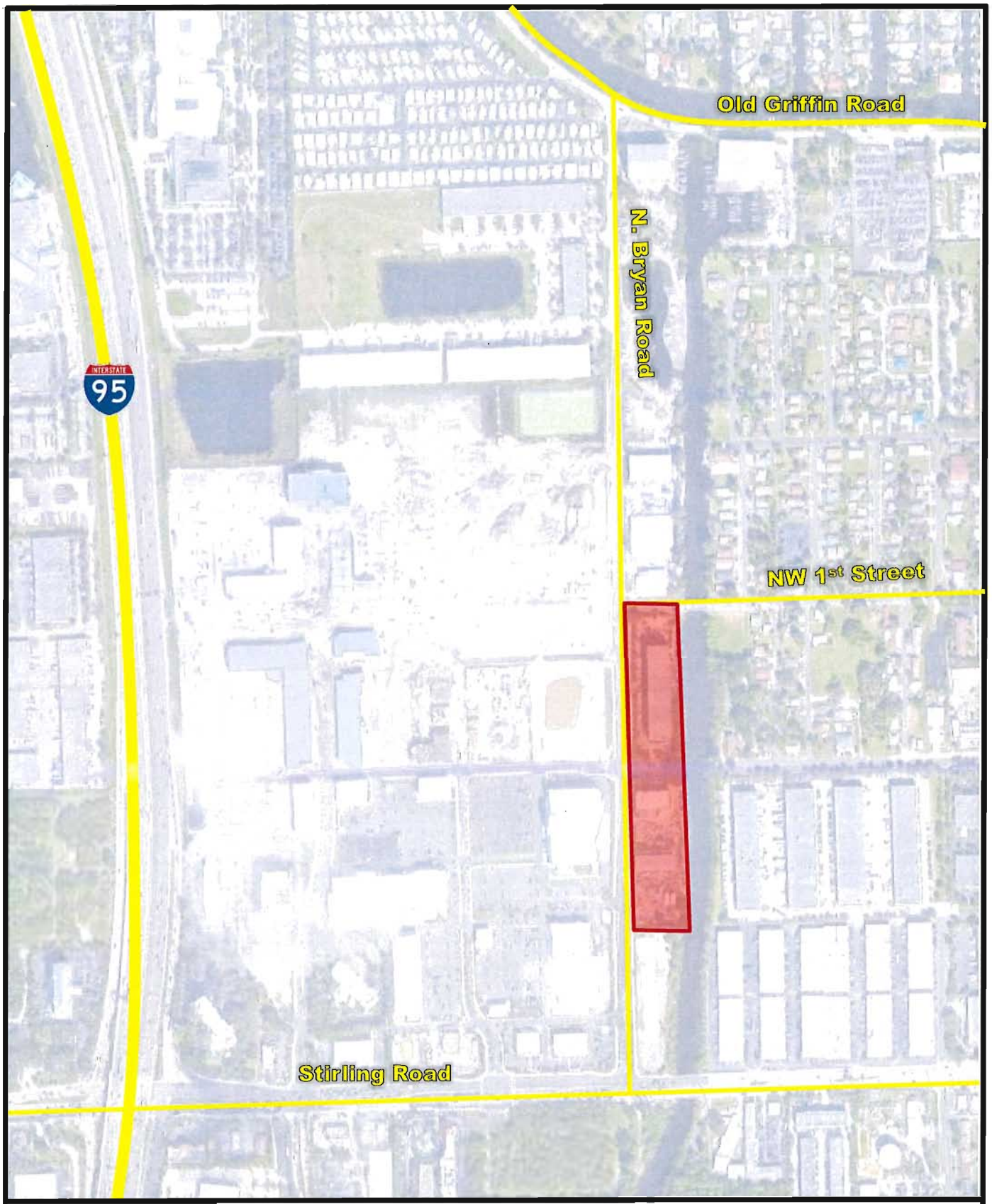
A site plan is included in *Appendix A*.

DATA COLLECTION

Baseline traffic count data was collected during the AM peak period (7:00 AM to 9:00 AM) and the PM peak period (4:00 PM to 6:00 PM) on Thursday, September 12, 2019 at intersections within the study area. Following is a list of the intersections at which data was collected:

1. Bryan Road & Stirling Road
2. Bryan Road & NW 1st Street
3. Bryan Road & Old Griffin Road

Turning movement volume data is included in *Appendix B*.



NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

FIGURE 1

SITE LOCATION AND TRAFFICWAYS IDENTIFICATION

DANIA MARINA

144706000

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TRIP GENERATION DETERMINATION

A trip generation determination was prepared to determine the potential impacts of the proposed development. Rates and equations published by the Institute of Transportation Engineers (ITE) in the *Trip Generation Manual, 10th Edition*, were used to determine the trips generated by the proposed land use. The rates for Multifamily High-Rise [ITE 222], Marina [ITE 420], General Office [ITE 710], Shopping Center [ITE 820], Recreational Vehicle Sales [ITE 842], and Quality Restaurant [ITE 931], High Turnover Sit-Down Restaurant [ITE 932] were used for the daily, AM peak hour and PM peak hour trip generation calculations. It was determined appropriate to use the ITE rate for Multifamily High-Rise because the buildings are proposed to be 16 stories, and the rate for ITE 222 correlates with similar uses of buildings greater than 10 stories. Table 1 shows the trip generation calculations for the redevelopment, with credit taken for the existing uses currently in operation on the site.

Table 1: Trip Generation Calculations

Land Use	Intensity		Daily Trips	AM Peak Hour			PM Peak Hour		
				Total	In	Out	Total	In	Out
Existing Scenario									
Marina	150	Berths	362	11	4	7	32	19	13
Recreational Vehicle Sales	24.8	KSF	124	11	9	2	19	6	13
		Subtotal	*486*	*22*	*13*	*9*	*51*	*25*	*26*
Driveway Volumes			**486**	**22**	**13**	**9**	**51**	**25**	**26**
Net New External Trips			**486**	**22**	**13**	**9**	**51**	**25**	**26**
Proposed Scenario									
Multifamily High-Rise	760	DU	3,206	226	54	172	267	163	104
General Commercial	20.0	KSF	755	19	12	7	76	36	40
General Office (>5,000 SF)	16	KSF	156	19	10	9	18	12	6
Quality Restaurant	25	KSF	2,096	18	9	9	195	131	64
High Turnover Sit-Down Restaurant	25	KSF	2,805	249	137	112	244	151	93
		Subtotal	*9,018*	*531*	*222*	*309*	*800*	*493*	*307*
Internal Capture									
Multifamily High-Rise			454	5	1	4	48	22	26
General Commercial			405	8	6	2	46	23	23
General Office (>5,000 SF)			272	6	1	5	8	7	1
Quality Restaurant			315	4	3	1	31	15	16
High Turnover Sit-Down Restaurant			314	3	2	1	31	15	16
		Subtotal	*1,760*	*26*	*13*	*13*	*164*	*82*	*82*
Pass-By Capture									
Multifamily High-Rise	0.0%		0	0	0	0	0	0	0
General Commercial	34.0%		119	4	2	2	10	4	6
General Office (>5,000 SF)	0.0%		0	0	0	0	0	0	0
Quality Restaurant	44.0%		784	6	3	3	72	51	21
High Turnover Sit-Down Restaurant	43.0%		1,071	106	58	48	92	58	34
		Subtotal	*1,974*	*116*	*63*	*53*	*174*	*113*	*61*
Driveway Volumes			**7,258**	**505**	**209**	**296**	**636**	**411**	**225**
Net New External Trips			**5,284**	**389**	**146**	**243**	**462**	**298**	**164**
Proposed Net External Trips - Existing Net External Trips			**4,798**	**367**	**133**	**234**	**411**	**273**	**138**

Land Use	Daily	AM Peak Hour	PM Peak Hour	Pass By
Marina [ITE 420]	2.41 trips/berth	.07 trips/berth (33% in, 67% out)	.21 trips/berth (60% in, 40% out)	0.0%
Recreational Vehicle Sale [ITE 842]	5.00 trips/1,000 sf	.46 trips/1,000 sf (85% in, 15% out)	.77 trips/1,000 sf (31% in, 69% out)	0.0%
Multifamily High-Rise ITE 222]	T=3.94(X)+211.81 trips/DU	T=0.28(X)+12.86 (24% in, 76% out)	T=0.34(X)+8.56 (61% in, 39% out)	0.0%
Shopping Center [ITE 820]	37.75 trips/1,000 sf	.94 trips/1,000 sf (62% in, 38% out)	3.81 trips/1,000 sf (48% in, 52% out)	34.0%
General Office [ITE 710]	9.74 trips/1,000 sf	1.16 trips/1,000 sf (86% in, 14% out)	1.15 trips/1,000 sf (16% in, 84% out)	0.0%
Quality Restaurant [ITE 931]	83.84 trips/1,000 sf	0.73 trips/1,000 sf (50% in, 50% out)	7.8 trips/1,000 sf (67% in, 33% out)	44.0%
High Turnover Sit-Down Restaurant	112.18 trips/1,000 sf	9.94 trips/1,000 sf (55% in, 45% out)	9.77 trips/1,000 sf (62% in, 38% out)	43.0%

As shown in Table 1 the proposed redevelopment will generate 4,798 net new external daily trips, 367 net new external AM peak hour trips (+133 in, +234 out), and 411 net new external PM peak hour trips (+273 in, +138 out). Figure 1 shows the existing site geometry as well as identifying surrounding trafficways evaluated in this analysis.

Internal capture matrices used to calculate internal capture are included in *Appendix C*.

ROADWAY NETWORK DISTRIBUTION

Trips generated by the proposed development were distributed along the existing road network to determine potential impacts of the project on the existing infrastructure. The addition of northbound right turn lanes at the driveways for the north and south buildings are proposed in conjunction with development of this site. Traffic distribution is the pairing of trip ends from the subject site with other complimentary land uses in the area. These trips were assigned to the surrounding roadways based upon a review of the roadway network and its travel time characteristics as seen in Figure 2.

Distributed project traffic was then evaluated at each of the three (3) intersections based on the possible movements available, as seen in Figure 3. Three scenarios were analyzed for each of the intersections:

- Existing Year (2019)
- Background Year (2024)
- Future Total (2024)

A buildout year of 2024 was assumed for the proposed development. To develop background traffic volumes, existing traffic volumes were grown over a 5-year period using a compounding yearly growth rate to determine volumes expected in 2024. The yearly growth rate was determined based on population growth and includes potential other future development. Projects in the area currently in progress account for committed development and are included in the analysis for Background (2024) traffic. The two major projects in the area that were included in this background growth determination are:

- Dania Pointe (remaining unbuilt portion of development)
- 150 South Bryan Road

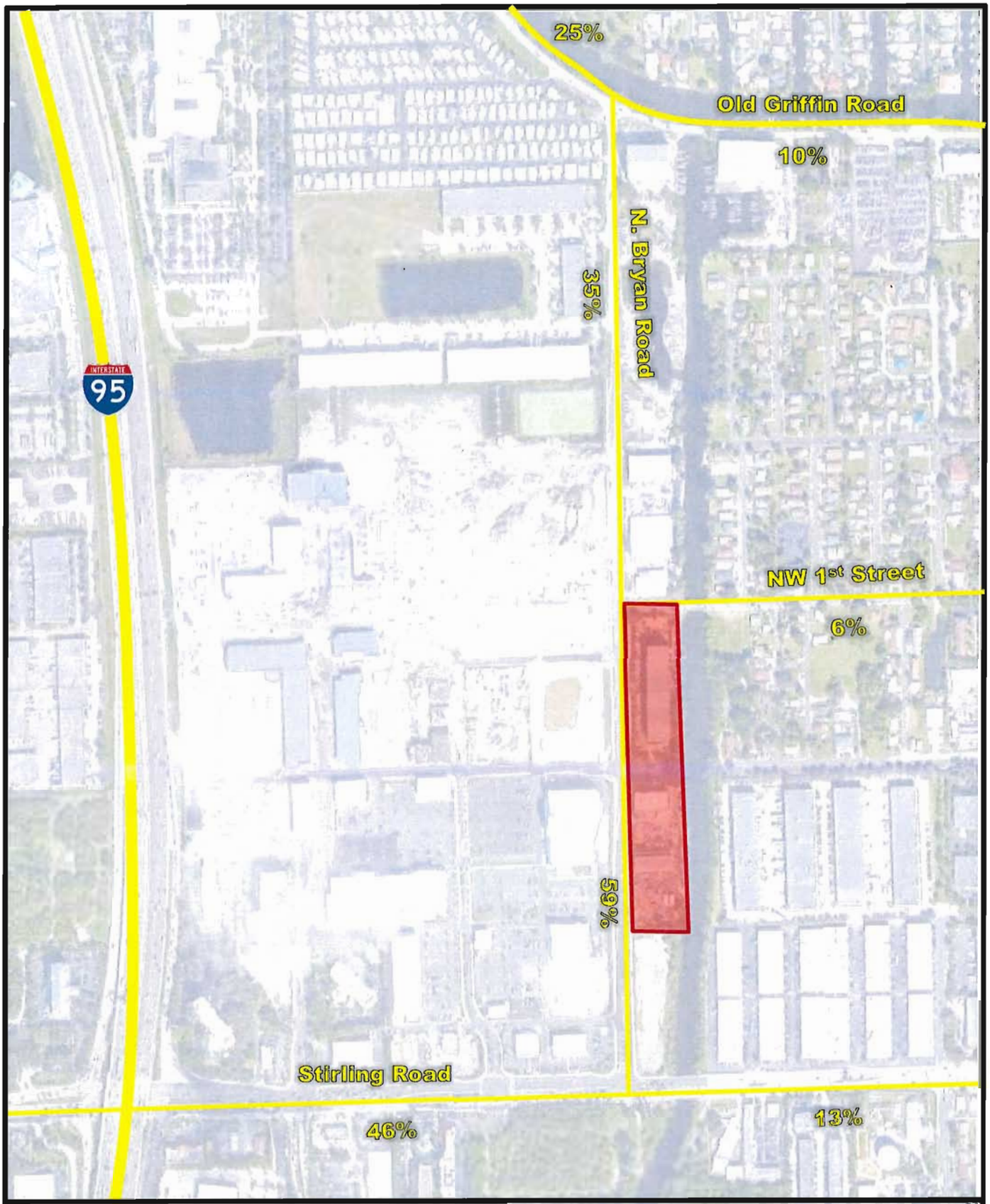
Information contained in the Traffic Impact Analyses for each project was utilized to determine future traffic being added to the surrounding roadway network, and credit was taken for the portion of Dania Pointe that is currently in operation. Relevant excerpts from these studies are included in Appendix B. Traffic generated by the remaining proposed/approved development (not yet in operation) was assumed to be on the roadway at the time of project buildout (2024). Future project totals were calculated by adding the net change in site traffic due to the redevelopment project to Background Total traffic to get Future Total (2024) volumes. The three roadway scenario volumes were then analyzed using Synchro 10 to determine intersection Level of Service (LOS) at the two signalized intersections:

- Old Griffin Road & Bryan Road
- Stirling Road & Bryan Road

as well as the unsignalized intersection:

- NW 1st Street & Bryan Road

For the intersection LOS analyses, the intersections are assigned a grade between "A" and "F". A grade of "D" or better is considered acceptable by the City of Dania Beach. Volume development worksheets are included in Appendix D.



NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

FIGURE 2

PROJECT TRAFFIC ROADWAY DISTRIBUTION

DANIA MARINA

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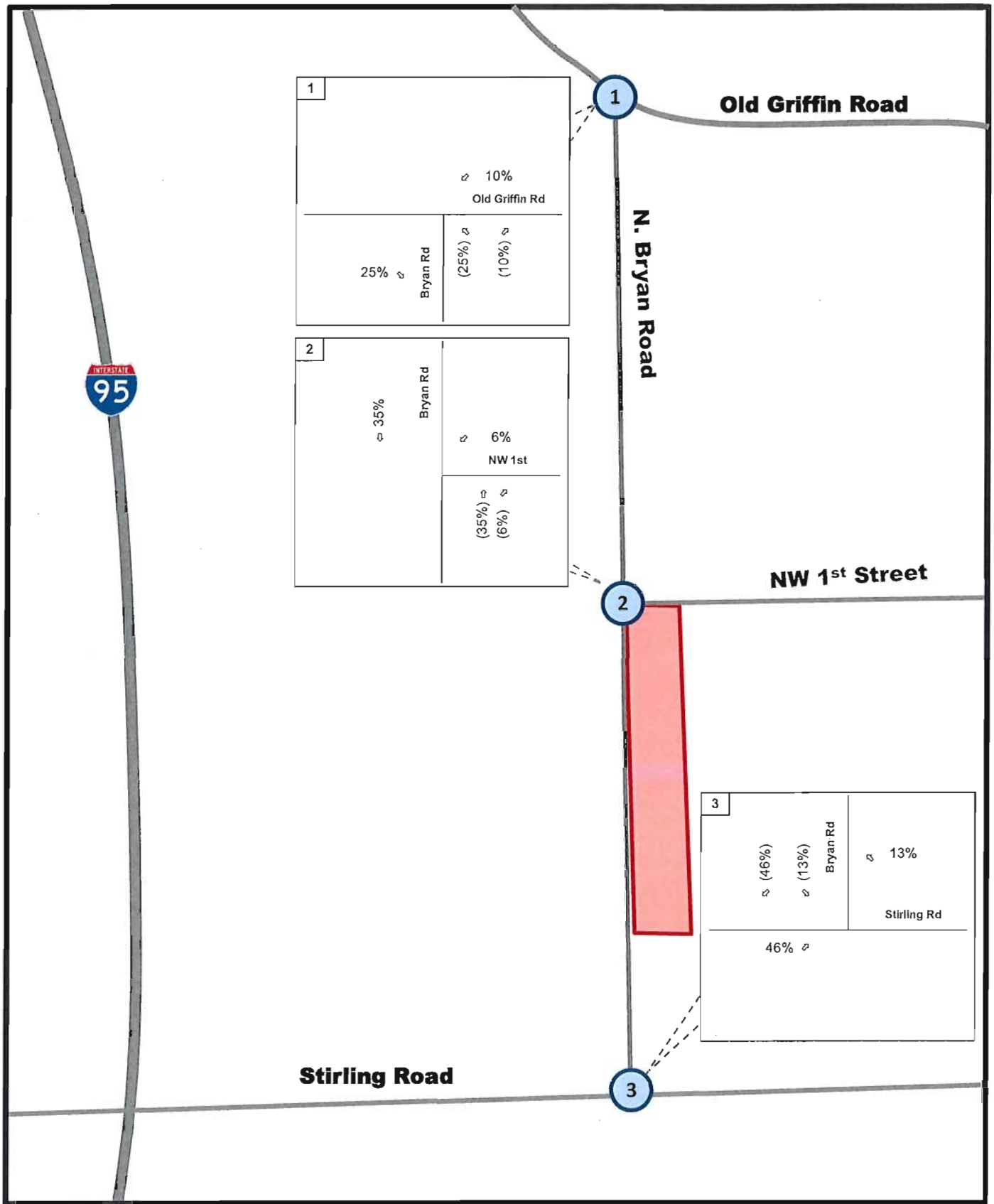

NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

XX% TRAFFIC ASSIGNMENT

FIGURE 3

PROJECT TRAFFIC INTERSECTION DISTRIBUTION

DANIA MARINA

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INTERSECTION LOS ANALYSIS

Intersection LOS analyses were conducted for the three directly impacted intersections for existing, background, and future total conditions. The analyses were conducted using Synchro 10 software. Reports summarizing the calculations undertaken for each of the intersections and scenarios are included in *Appendix E*. The LOS and delay for existing, background, and future conditions are summarized below in Table 2, Table 3, and Table 4, respectively. The existing, background total, and future total volumes for each of the approaches analyzed are summarized in Figure 4, Figure 5, Figure 6, respectively. Each figure illustrates the approach volume for AM peak hour and PM peak hour times. It is important to note that Old Griffin Road & Bryan Road is proposed to be signalized in the future; therefore, the intersection was analyzed as a signalized intersection using standard signal timing optimized by Synchro 10 for future background and future total conditions. The signal timing for the currently signalized intersection of Bryan Road & Stirling Road is included in *Appendix D.*

Table 2: Existing Intersection LOS Summary

Intersection	Overall LOS/Delay	Approach	LOS/Delay
AM Peak Hour			
Bryan Road & Old Griffin Road (unsig.)	-	NBL	15.2/C
		NBR	9.8/A
		WBL	8.6/A
Bryan Road & NW 1st Street (unsig.)	-	WBL	13.4/B
		SBL	7.8/A
Bryan Road & Stirling Road (sig.)	10.7/B	EB	3.6/A
		WB	6.6/A
		SB	69.9/E
PM Peak Hour			
Bryan Road & Old Griffin Road (unsig.)	-	NBL	25.7/D
		NBR	10.6/B
		WBL	9.5/A
Bryan Road & NW 1st Street (unsig.)	-	WBL	16.5/C
		SBL	7.9/A
Bryan Road & Stirling Road (sig.)	18.8/B	EB	6.5/A
		WB	12.3/B
		SB	77.4/E

*Note for Tables 2, 3, and 4, "Overall LOS/Delay" at unsignalized, two-way stop-controlled intersections

The analysis includes optimized timing during future total conditions at signalized intersections. As shown, all three intersections are projected to meet LOS standards during the AM peak hour with project traffic. During the PM peak hour, the westbound movement at Bryan Road & NW 1st Street is anticipated to operate at LOS F. This is not uncommon during peak periods at two-way stop-controlled intersections. It should be noted that the v/c ratio for the westbound movements is still projected to be below 1.0, meaning that these movements are not over capacity.

Table 3: Background Intersection LOS Summary

Intersection	Overall LOS/Delay	Approach	LOS/Delay
AM Peak Hour			
Bryan Road & Old Griffin Road (sig.)	12.6 / B	EB	6.2/A
		WB	13.8/B
		NB	31.3/C
Bryan Road & NW 1st Street (unsig.)	-	WBL	18.1/C
		SBL	8.1/A
Bryan Road & Stirling Road (sig.)	19.7 /B	EB	7.3/A
		WB	12.9/B
		SB	80.8/F
PM Peak Hour			
Bryan Road & Old Griffin Road (sig.)	21.5/C	EB	15.5/B
		WB	20.5/C
		NB	34.3/C
Bryan Road & NW 1st Street (unsig.)	-	WBL	26.3/D
		SBL	8.8/A
Bryan Road & Stirling Road (sig.)	99.3 / F	EB	12.2/B
		WB	15.9/B
		SB	407.6/F

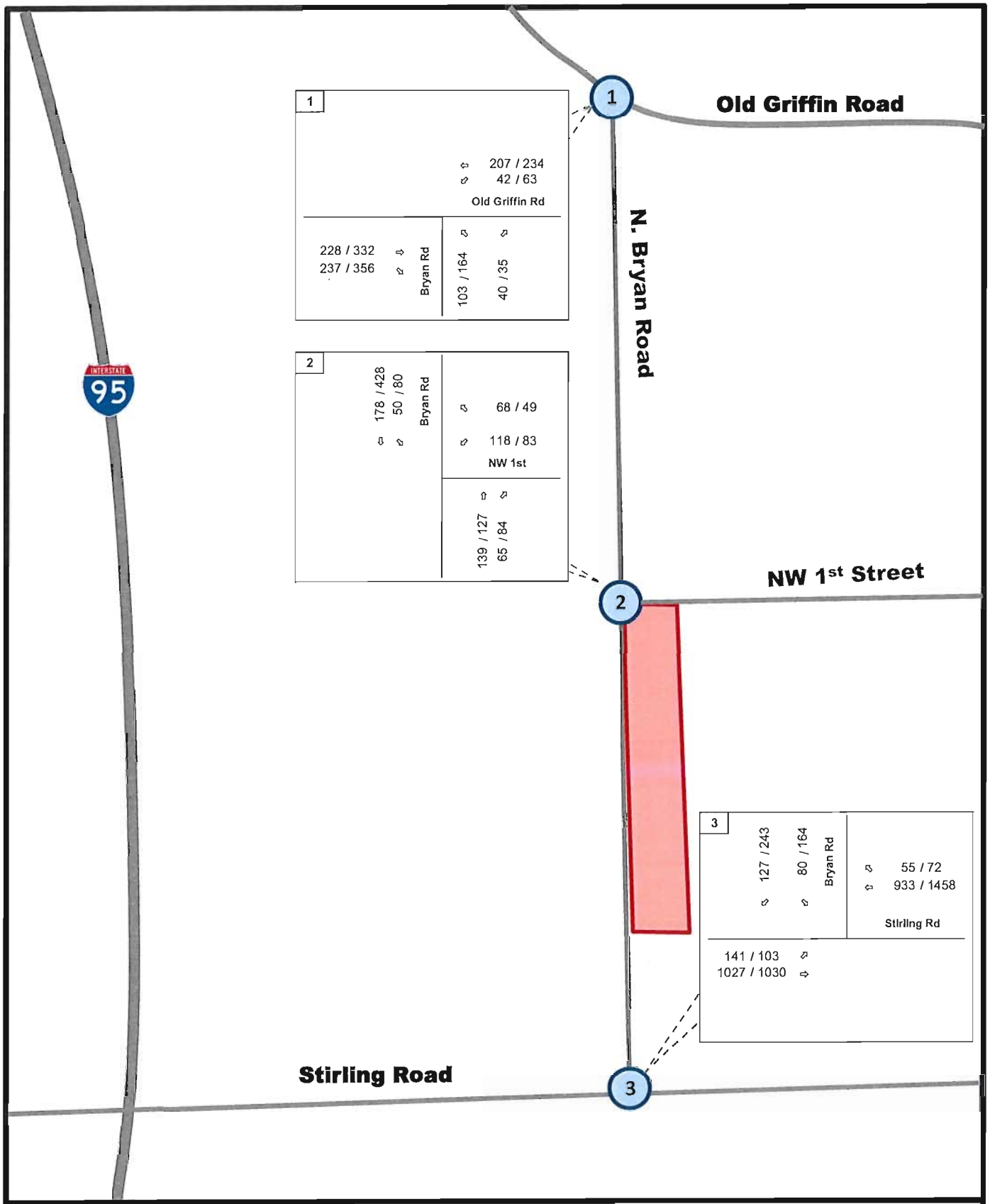
Table 4: Future Total Intersection LOS Summary

Intersection	Overall LOS/Delay	Approach	LOS/Delay
AM Peak Hour			
Bryan Road & Old Griffin Road (sig.)	14.2 / B	EB	10.3/B
		WB	14.6/B
		NB	24.3/C
Bryan Road & NW 1st Street (unsig.)	-	WBL	22.1/C
		SBL	8.4/A
Bryan Road & Stirling Road (sig.)	34.2 / C	EB	7.8/A
		WB	13.5/B
		SB	148.9/F
North Driveway & Bryan Road (unsig.)	-	WBL	18.0/C
		SBL	8.4/A
South Driveway & Bryan Road (unsig.)	-	WBL	32.3/D
		SBL	8.4/A
PM Peak Hour			
Bryan Road & Old Griffin Road (sig.)	25.3 / C	EB	18.1/B
		WB	25.9/C
		NB	39.6/D
Bryan Road & NW 1st Street (unsig.)	-	WBL	38.2/E
		SBL	9.0/A
Bryan Road & Stirling Road (sig.)	102.3 / F	EB	23.7/C
		WB	19.1/B
		SB	385.2/F
North Driveway & Bryan Road (unsig.)	-	WBL	27.5/D
		SBL	9.4/A
South Driveway & Bryan Road (unsig.)	-	WBL	67.2/F
		SBL	9.8/A

The intersection of Bryan Road & Stirling Road operates at a LOS F in both the background and future conditions. Since the intersection is expected to fail during the background conditions, the operational failures of the intersection are not caused by project traffic specifically. However, to mitigate the operational failures of the intersection the signal timing has been optimized using Synchro 10. The Future Total condition with signal timing optimization brings the intersection LOS from an F to a D in the PM peak hour.

Table 5: Future Total with improvements Intersection LOS Summary

Intersection	Overall LOS/Delay	Approach	LOS/Delay
AM Peak Hour			
Bryan Road & Stirling Road (sig.)	24.6 / C	EB	15.0/B
		WB	25.3/C
		SB	49.5/D
PM Peak Hour			
Bryan Road & Stirling Road (sig.)	53.3 / D	EB	35.4/D
		WB	59.9/E
		SB	71.2/E



NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

AM TRAFFIC / *PM TRAFFIC*

FIGURE 4

EXISTING YEAR INTERSECTION VOLUMES

DANIA MARINA

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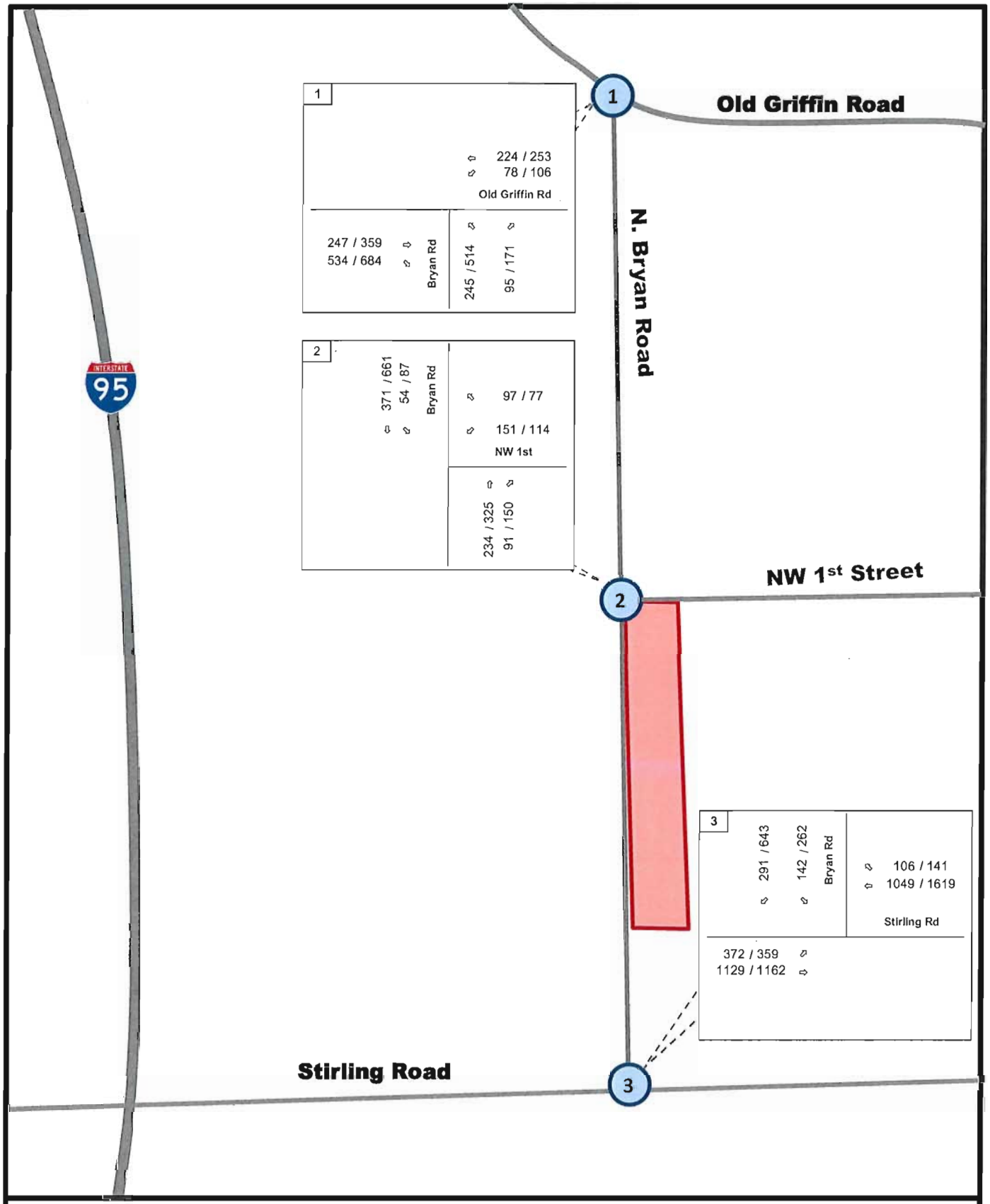

NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

AM TRAFFIC / *PM TRAFFIC*

FIGURE 5

BACKGROUND YEAR INTERSECTION VOLUMES

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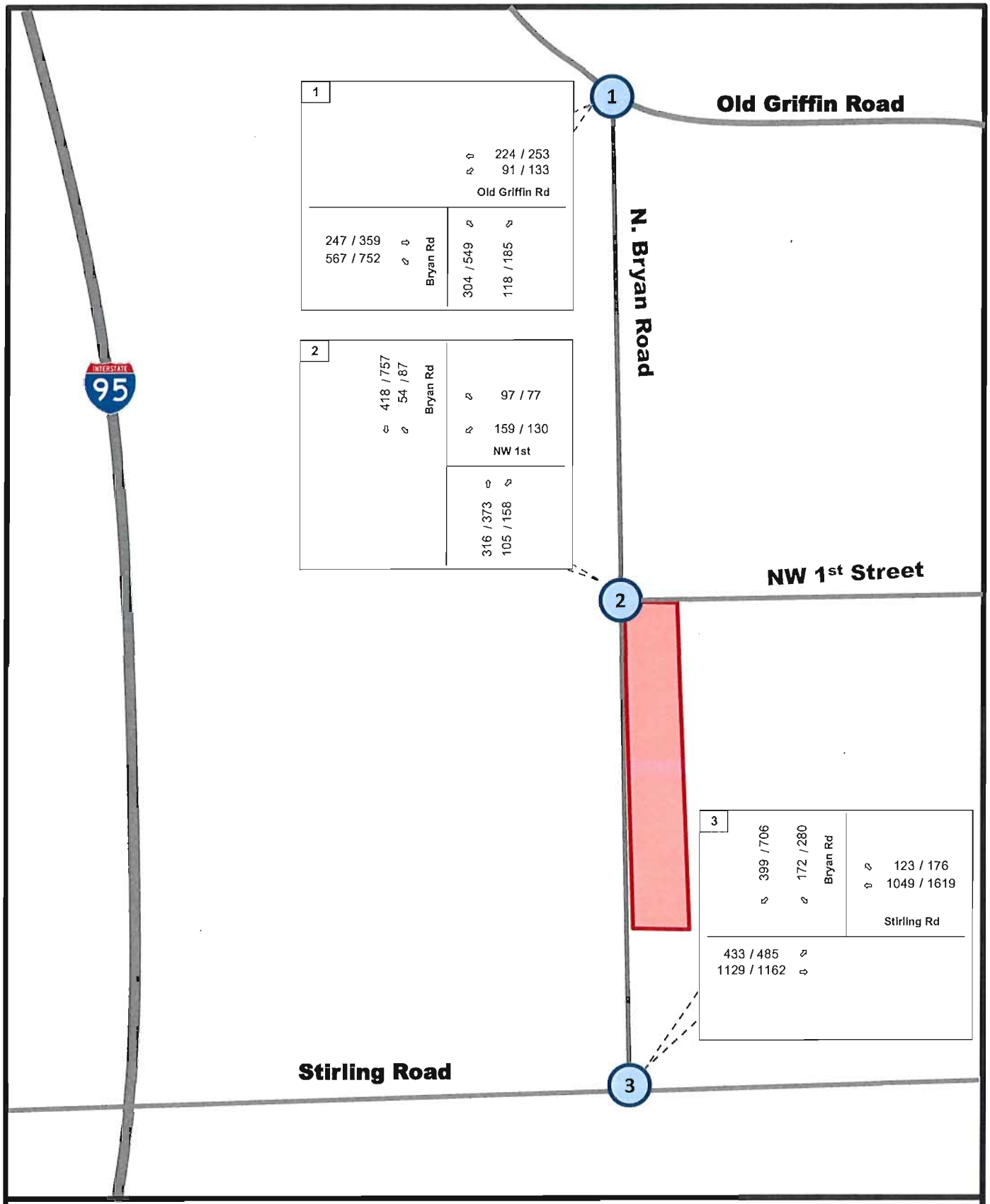

NORTH

LEGEND

SITE

TRAFFICWAYS EVALUATED

AM TRAFFIC / *PM TRAFFIC*

FIGURE 6

FUTURE TOTAL INTERSECTION VOLUMES

DANIA MARINA

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95th Percentile Queueing Analysis

The queue lengths for the three major intersections were analyzed using *Synchro 10* software to determine the 95th Percentile Queue that would be expected for each of the turning movements where vehicle storage is available.

EXISTING YEAR (2019)

Existing year traffic volumes were used, and it was determined that none of the queue lengths at the intersections are expected to be longer than the available storage length. The results are summarized in Table 6 below.

Table 6: Existing Year (2019) 95th Percentile Queue Lengths

Intersection	Movement	Storage	AM queue	PM queue
Existing				
Bryan Road & Old Griffin Road (unsig.)	NBR	150	25	25
	WBL	75	25	25
Bryan Road & NW 1st Street (unsig.)	WB	DNE	35	33
	SBL	TWLT	25	25
Bryan Road & Stirling Road (sig.)	EBL	240	17	26
	SBL	250	76	119
	SBR	480	71	297

As seen in the table above, none of the vehicle storage is exceeded during the existing 2019 scenario.

BACKGROUND YEAR (2024)

Background year traffic volumes were used to determine the queue lengths that would be expected in the year 2024 scenario without project traffic. The results are summarized in Table 7 below.

Table 7: Background Year (2024) 95th Percentile Queue Lengths

Intersection	Movement	Storage	AM queue	PM queue
Background				
Bryan Road & Old Griffin Road (sig.)	EBR	125	27	145
	WBL	75	79	121
	NBR	150	33	43
Bryan Road & NW 1st Street (unsig.)	WB	DNE	70	83
	SBL	TWLT	25	25
Bryan Road & Stirling Road (sig.)	EBL	240	86	250
	SBL	250	104	188
	SBR	480	281	1211

As seen in the above table the following turn lanes are expected to experience queuing which is longer than the available turn lane storage at the following movements:

- Bryan Road & Old Griffin Road EBR during the PM peak hour
- Bryan Road & Old Griffin Road WBL during the AM and PM peak hours
- Bryan Road & Stirling Road EBL during the PM peak hour
- Bryan Road & Stirling Road SBR during the PM peak hour

FUTURE YEAR (2024)

Future year traffic volumes were used to determine the queue lengths that would be expected in the year 2024 scenario with project traffic. The results are summarized in Table 8 below.

Table 8: Future Year (2024) 95th Percentile Queue Lengths

Intersection	Movement	Storage	AM queue	PM queue
Future				
Bryan Road & Old Griffin Road (sig.)	EBR	125	62	223
	WBL	75	87	164
	NBR	150	34	49
Bryan Road & NW 1st Street (unsig.)	WB	DNE	90	123
	SBL	TWLT	25	25
Bryan Road & Stirling Road (sig.)	EBL	240	129	418
	SBL	250	114	202
	SBR	480	384	1379
North Driveway & Bryan Road (unsig.)	WB	DNE	40	53
	SBL	TWLT	25	25
South Driveway & Bryan Road (unsig.)	WB	DNE	123	163
	SBL	TWLT	25	25

As seen in the above table the following turn lanes are expected to experience queuing which is longer than the available turn lane storage at the following movements:

- Bryan Road & Old Griffin Road EBR during the PM peak hour
- Bryan Road & Old Griffin Road WBL during the AM and PM peak hours
- Bryan Road & Stirling Road EBL during the PM peak hour
- Bryan Road & Stirling Road SBR during the PM peak hour

It should be noted that project traffic does not contribute to any additional storage deficiencies that are not already present during the background year scenario. However, project traffic from this site does exacerbate deficiencies at the intersections listed above.

FUTURE YEAR OPTIMIZED (2024)

Future year traffic volumes were used along with optimized signal timing at the intersection of Bryan Road & Stirling road to alleviate some of the storage deficiencies at the intersection. The results are summarized in Table 9 below.

Table 9: Future Year Optimized (2024) 95th Percentile Queue Lengths

Intersection	Movement	Storage	AM	PM
Future - Improvement				
Bryan Road & Stirling Road (sig.)	EBL	240	165	356
	SBL	250	106	160
	SBR	480	372	1038

ROADWAY CAPACITY ANALYSIS

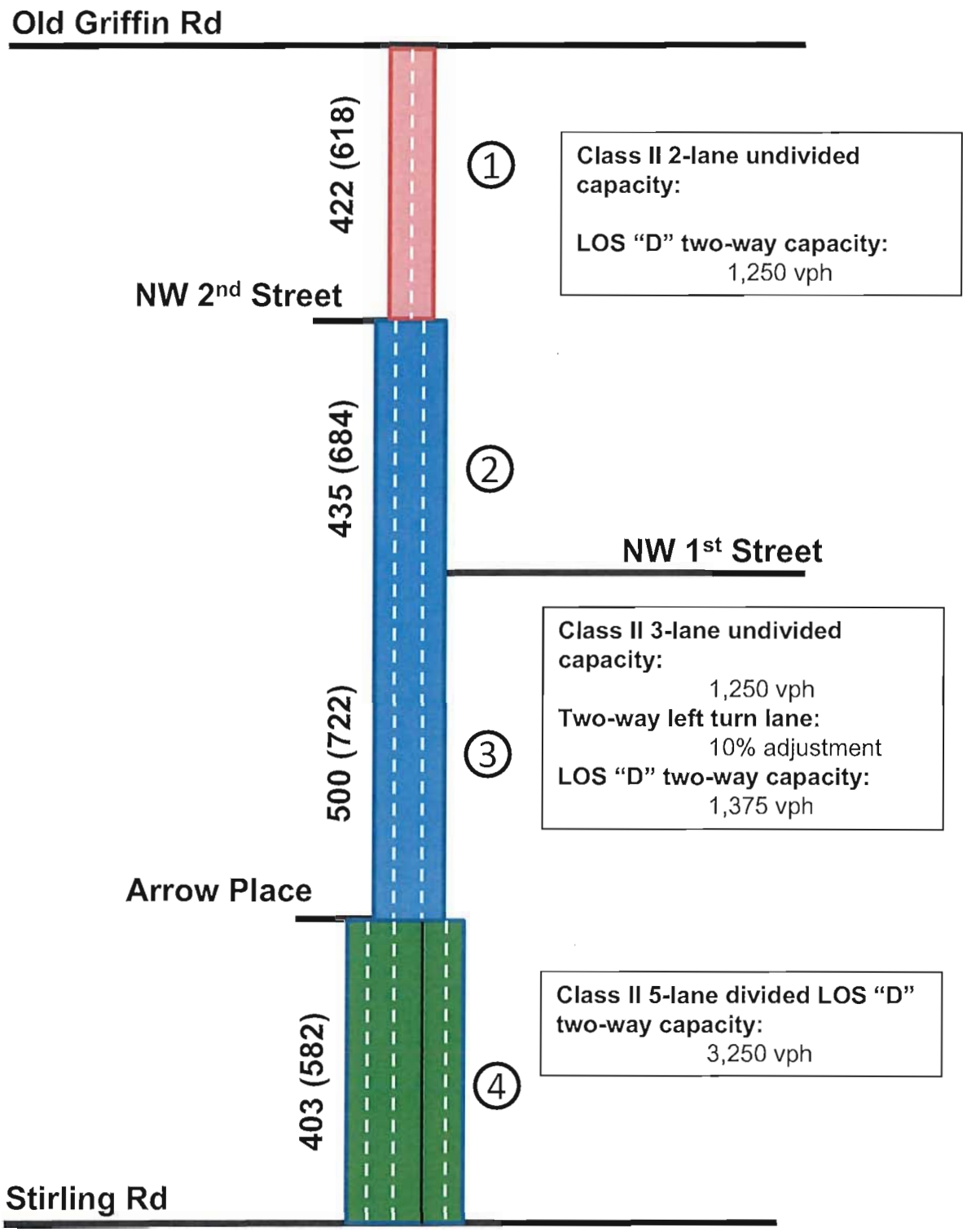
A roadway capacity analysis has been conducted on Bryan Road to review if the roadway cross-section will be adequate to accommodate total future traffic conditions. The baseline for a two-lane roadway LOS D is 1,250 total vehicles per hour. Bryan Road south of NW 2nd Street has a two-way left turn lane median and exclusive right turn lanes; a 10% adjustment factor was added to this baseline service volume. Therefore, the two-lane road service volume for Bryan Road south of NW 1st Street will be compared to is 1,375 vehicles per hour during peak hour traffic flow.

BRYAN ROAD - NORTH OF NW 1ST STREET

The total traffic two-way traffic volume for this roadway segment was determined from the sum of the northbound left-turn, northbound right-turn, eastbound right-turn, and westbound left-turn movements at the intersection of Old Griffin Road & Bryan Road. For the AM peak hour, the future traffic total on Bryan Road to the north of the project site was determined to be 1,080 two-way AM peak hour vehicles. The PM peak hour future total two-way traffic volume to the north of the project site along Bryan Road was found to be 1,619 vehicles. Therefore, it was determined that Bryan Road north of the project site (which experiences one of the highest volume of traffic along Bryan Road) is expected to operate at 79% of the LOS D capacity for a two-lane road during the AM peak hour and 118% of the LOS D capacity during the PM peak hour.

BRYAN ROAD - SOUTH OF NW 1ST STREET

The total two-way traffic volume for this roadway segment was determined from the sum of the northbound through, northbound right-turn, southbound through, and westbound left-turn movements at the intersection of NW 1st Street & Bryan Road. For the AM peak hour, the future traffic total on Bryan Road in front of the project site was determined to be 998 two-way AM peak hour vehicles. The PM peak hour future total two-way traffic volume in front of the project site along Bryan Road was found to be 1,418 vehicles. Therefore, it was determined that Bryan Road in front of the project site (which experiences the highest volume of traffic along Bryan Road) is expected to operate at 73% of the LOS D capacity for a two-lane road with a shared two-way left-turn lane and exclusive right turn lanes during the AM peak hour and 103% of the LOS D capacity during the PM peak hour. The same analysis was conducted on Bryan Road for the existing (2019) and background (2024) conditions. These volumes are illustrated in Figure 7, and Figure 8 respectively. Figure 9 illustrates the future (2024) traffic volumes expected on the roadway. It was determined that the portion of Bryan Road directly south of Old Griffin Road is above the adopted LOS "D" capacity in the PM peak hour during the background (2024) and future (2024) conditions.



LEGEND

XX (XX) AM (PM) Peak Hour Traffic Volume

NORTH

3 Lane Undivided Cross-Section

2 Lane Undivided Cross-Section

5 Lane Divided Cross-Section

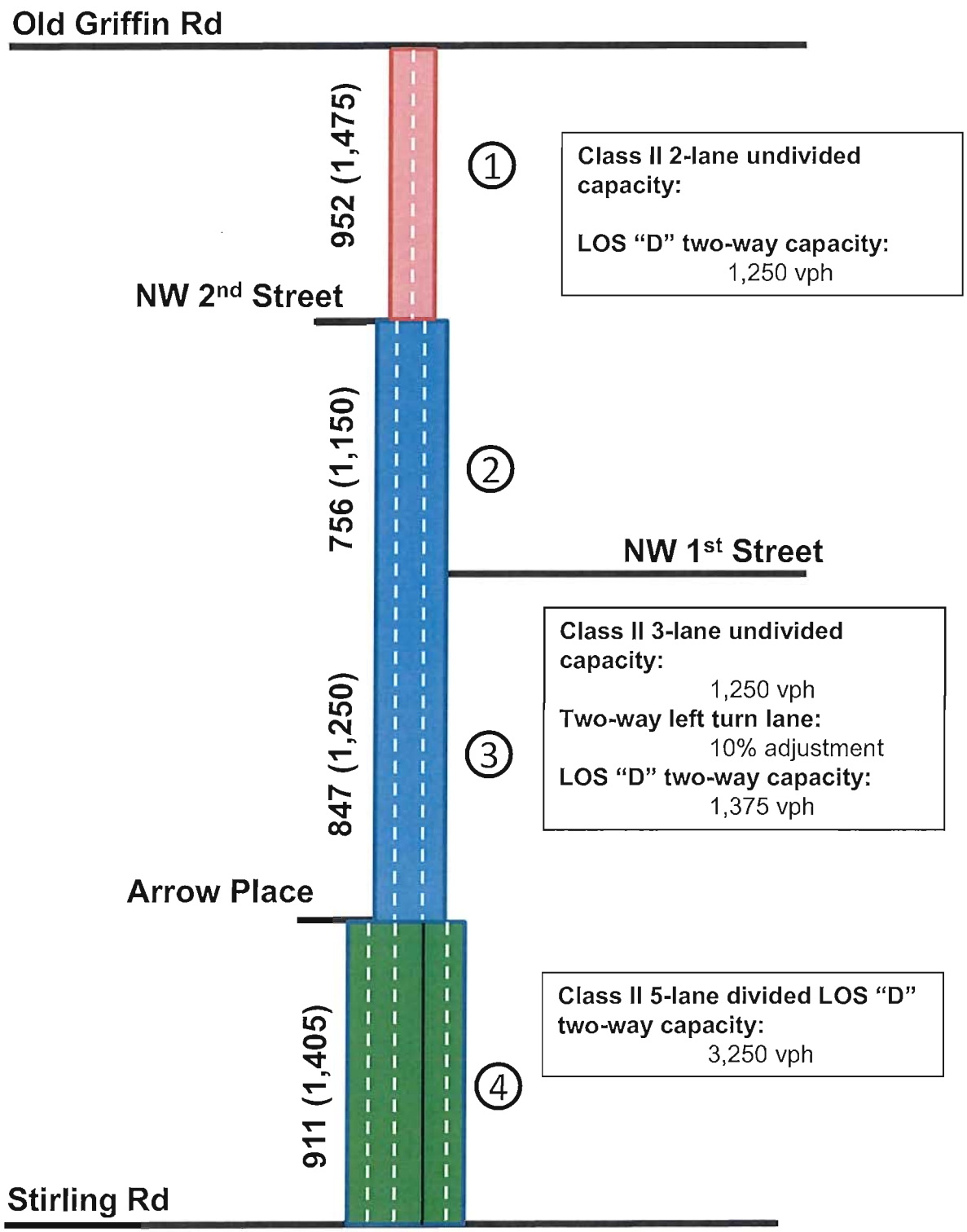
FIGURE 7

EXISTING BRYAN ROAD 2-WAY VOLUMES

DANIA MARINA

144706000

Kimley»Horn



LEGEND

XX (XX) AM (PM) Peak Hour Traffic Volume

3 Lane Undivided Cross-Section

2 Lane Undivided Cross-Section

5 Lane Divided Cross-Section

NORTH

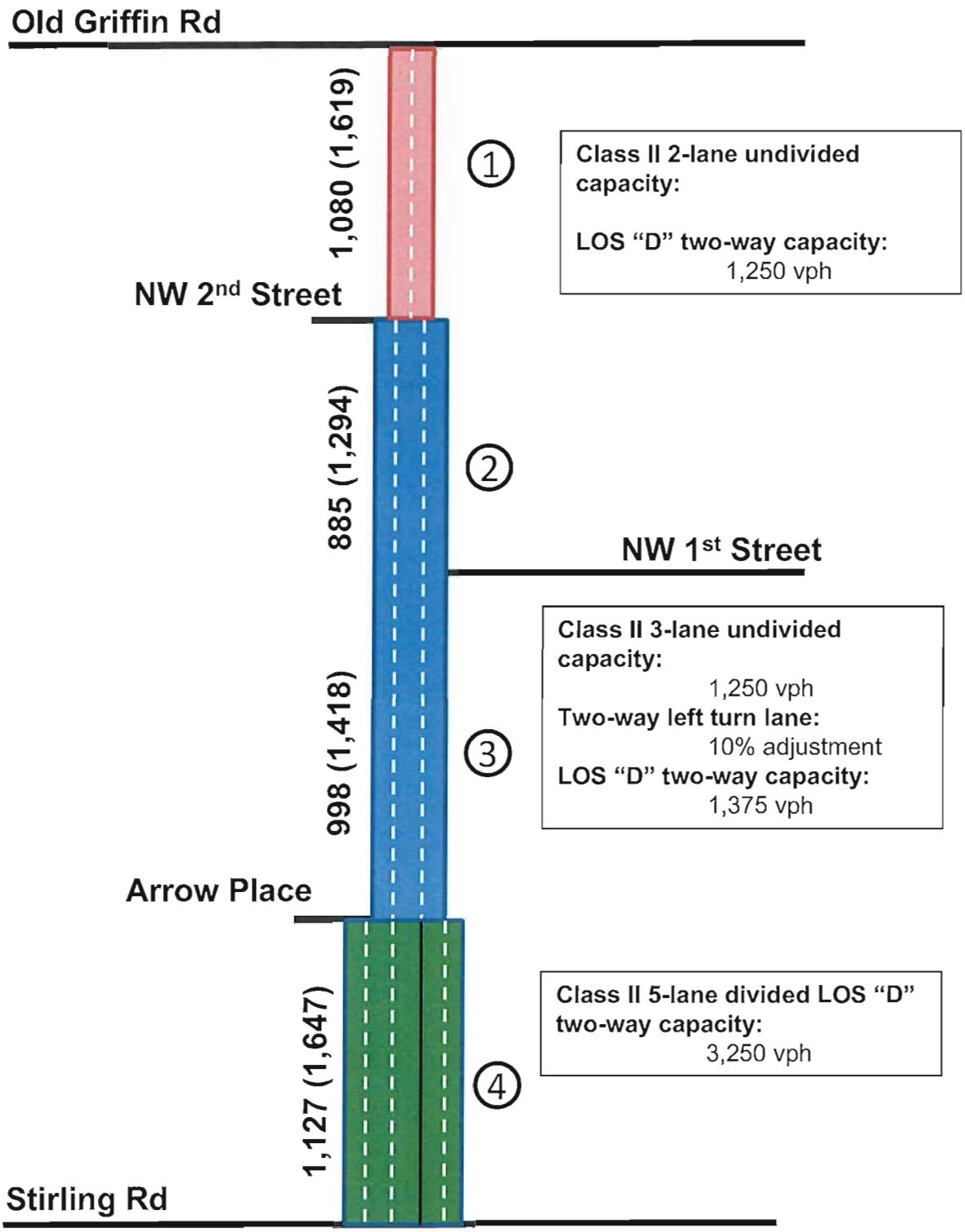
FIGURE 8

BACKGROUND BRYAN ROAD 2-WAY VOLUMES

DANIA MARINA

144706000

Kimley»Horn



LEGEND

XX (XX) AM (PM) Peak Hour Traffic Volume

NORTH

3 Lane Undivided Cross-Section

2 Lane Undivided Cross-Section

5 Lane Divided Cross-Section

FIGURE 9

FUTURE TOTAL BRYAN ROAD 2-WAY VOLUMES

DANIA MARINA

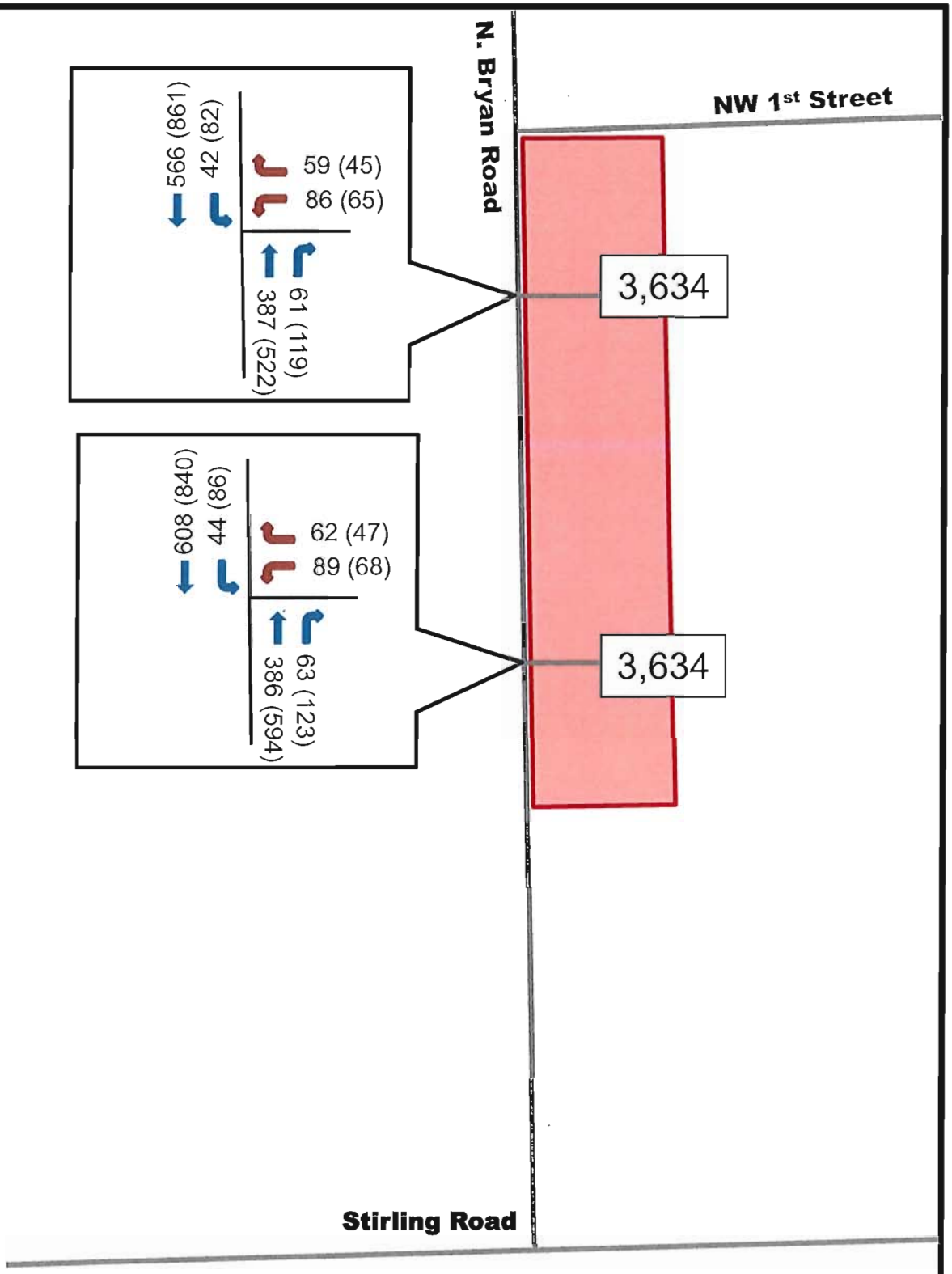
144706000

Kimley»Horn

SITE ACCESS

The site is proposed to have two full-access driveways on Bryan Road. Figure 10 illustrates the anticipated volumes at the two driveways. During the review process, the applicant will coordinate with the City of Dania Beach and Broward County regarding the laneage and configuration of these driveway connections. The site plan includes a northbound right-turn deceleration lane at each driveway.

Synchro 10 software was used to analyze each of the proposed driveways. Analysis of these driveways was conducted using volumes extrapolated from the turning movement counts conducted at the intersection of Bryan Road & NW 1st Street with expected project driveway volumes as illustrated in Table 1. Since both Dania Marina sites will consist of the same square footage breakdown, it was expected that each driveway would experience very similar traffic volumes. The north driveway is expected to operate at LOS C in the AM peak hour and LOS D in the PM peak hour. The south driveway is expected to operate at LOS D in the AM peak hour and LOS F in the PM peak hour. Synchro analyses for each driveway can be found in *Appendix E.*



LEGEND

XX (XX) AM Trips (PM Trips)

XX Daily Driveway Volume

NORTH

FIGURE 10
SITE DRIVEWAY VOLUMES
DANIA MARINA
144706000

Kimley»Horn

CONCLUSION

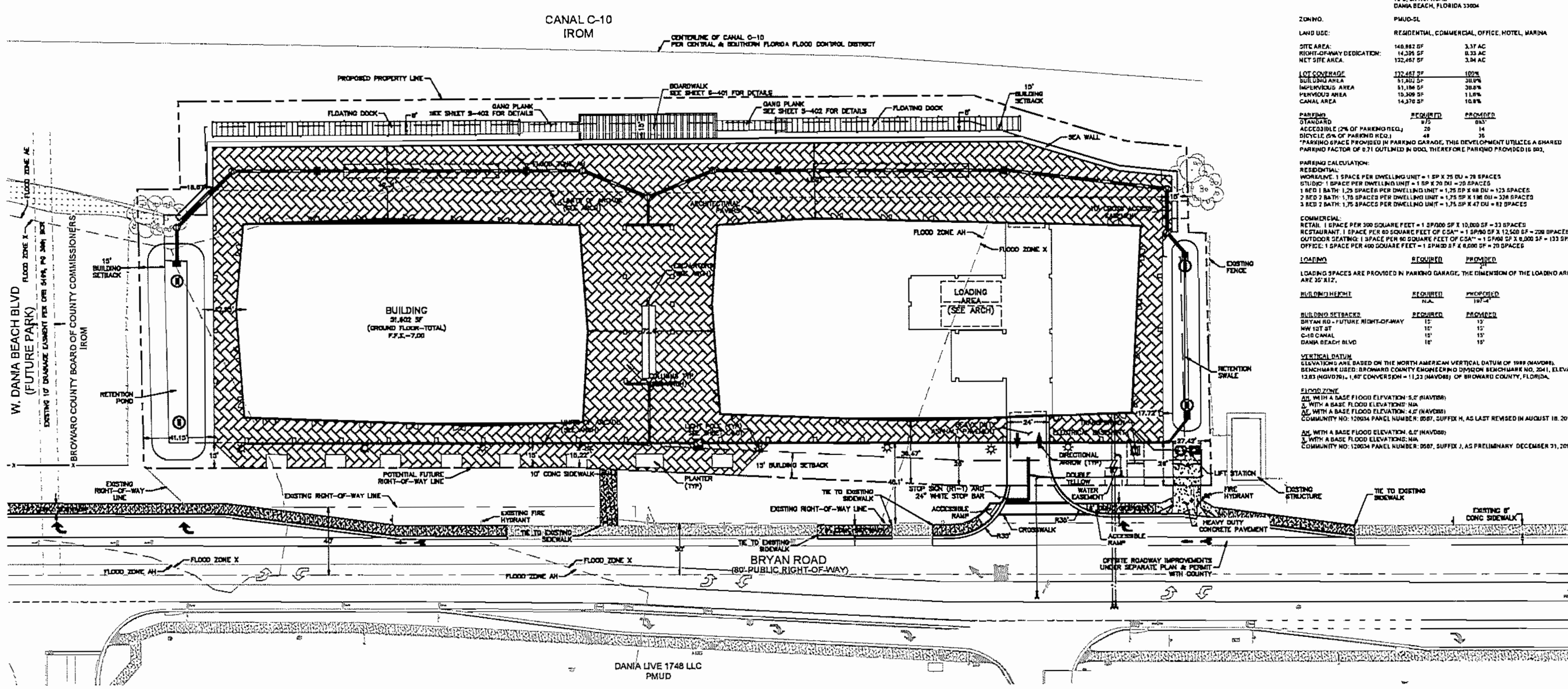
The traffic impact analysis that was undertaken evaluated the impacts of traffic generated by the proposed redevelopment of the Dania Marina site on the surrounding roadway network. This evaluation considered total future roadway volume conditions with traffic generated by the subject site, plus traffic generated by the remaining unbuilt portion of Dania Pointe and by the proposed redevelopment of the 150 South Bryan Road site. The evaluation indicated that the two major signalized intersections along Bryan Road are anticipated to meet level of service standards with signalization of Old Griffin Road & Bryan Road and signal timing optimization of Stirling Road & Bryan Road. The roadway segment evaluation of Bryan Road analyzed the two-lane section of Bryan Road north of NW 1st Avenue and the enhanced three-lane section of Bryan Road with right turn lanes south of the site. The evaluation demonstrated that Bryan Road is anticipated to meet the level of service standards except for the north segment (south of Old Griffin Road) during the PM peak hour. Currently, the additional right-of-way that would need to be acquired in order to widen this segment is a part of privately-owned property along the corridor. Therefore, it is currently not possible to widen this segment. However, as part of the site plan application, the Applicant proposes to dedicate right of way along the site frontage on Bryan Road, which will accommodate any future widening of this segment of Bryan Road that may be needed.

Furthermore, it is anticipated that the Applicant will construct right-turn deceleration lanes at the two proposed site driveways. Exact parameters related to these lanes will be determined during the platting process.

K:\WPB_TPTO\1477\147706000 - Dania Marina\TIA\2020-6-26 Dania Marina TIA.docx

Kimley»Horn

APPENDIX A: SITE PLAN



70 WAVE SITE DATA:

LOCATION	SECTION 33, TOWNSHIP 50 S, RANGE 42 E	
ADDRESS:	50 S. BRYAN ROAD AND 70 S. BRYAN ROAD DANIA BEACH, FLORIDA 33004	
ZONING:	PMUD-SL	
LAND USE:	RESIDENTIAL, COMMERCIAL, OFFICE, HOTEL, MARINA	
SITE AREA:	146,862 SF	3.37 AC
RIGHT-OF-WAY DEDICATION:	14,395 SF	0.33 AC
NET SITE AREA:	132,467 SF	3.04 AC
LOT COVERAGE	132,467 SF	100%
BUILDING AREA	51,602 SF	38.9%
IMPERVIOUS AREA	51,186 SF	38.6%
PERVIOUS AREA	15,309 SF	11.6%
CANAL AREA	14,370 SF	10.8%

PARKING	REQUIRED	PROVIDED
STANDARD	875	693*
ACCESSIBLE (2% OF PARKING REQ.)	20	14
BICYCLE (5% OF PARKING REQ.)	48	35

*PARKING SPACE PROVIDED IN PARKING GARAGE. THIS DEVELOPMENT UTILIZES A SHARED PARKING FACTOR OF 0.71 OUTLINED IN DOG, THEREFORE PARKING PROVIDED IS 693.

PARKING CALCULATION:
RESIDENTIAL:
WORK/LIVE: 1 SPACE PER DWELLING UNIT = 1 SP X 25 DU = 25 SPACES
STUDIO: 1 SPACE PER DWELLING UNIT = 1 SP X 20 DU = 20 SPACES
1 BED 1 BATH: 1.25 SPACES PER DWELLING UNIT = 1.25 SP X 98 DU = 123 SPACES
2 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 186 DU = 326 SPACES
3 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 47 DU = 82 SPACES

COMMERCIAL:
RETAIL: 1 SPACE PER 300 SQUARE FEET = 1 SP/300 SF X 10,000 SF = 33 SPACES
RESTAURANT: 1 SPACE PER 60 SQUARE FEET OF CSA** = 1 SP/60 SF X 12,500 SF = 208 SPACES
OUTDOOR SEATING: 1 SPACE PER 60 SQUARE FEET OF CSA** = 1 SP/60 SF X 8,000 SF = 133 SPACES
OFFICE: 1 SPACE PER 400 SQUARE FEET = 1 SP/400 SF X 8,000 SF = 20 SPACES

LOADING	REQUIRED	PROVIDED
	1	2**

LOADING SPACES ARE PROVIDED IN PARKING GARAGE, THE DIMENSION OF THE LOADING AREAS ARE 35' X 12'.

BUILDING HEIGHT	REQUIRED	PROPOSED
	N.A.	197'-4"

BUILDING SETBACKS	REQUIRED	PROVIDED
BRYAN RD - FUTURE RIGHT-OF-WAY	15'	15'
NW 1ST ST	15'	15'
C-10 CANAL	15'	15'
DANIA BEACH BLVD	15'	15'

VERTICAL DATUM
ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BENCHMARK USED: BROWARD COUNTY ENGINEERING DIVISION BENCHMARK NO. 2041, ELEVATION 12.83 (NGVD29) - 1.60' CONVERSION = 11.23 (NAVD88) OF BROWARD COUNTY, FLORIDA.

FLOOD ZONE
AH, WITH A BASE FLOOD ELEVATION: 5.0' (NAVD88)
X, WITH A BASE FLOOD ELEVATIONS: N/A
AE, WITH A BASE FLOOD ELEVATION: 4.0' (NAVD88)
COMMUNITY NO: 120034 PANEL NUMBER: 0567, SUFFIX H, AS LAST REVISED IN AUGUST 18, 2014.

AH, WITH A BASE FLOOD ELEVATION: 6.0' (NAVD88)
X, WITH A BASE FLOOD ELEVATIONS: N/A
COMMUNITY NO: 120034 PANEL NUMBER: 0567, SUFFIX J, AS PRELIMINARY DECEMBER 31, 2019.

LEGAL DESCRIPTION - SOUTH BUILDING

PARCEL 1
THE SOUTH ONE-HALF OF THE SOUTHWEST ONE-QUARTER (SW ¼) OF THE NORTHWEST ONE-QUARTER (NW ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, LESS ALL OF THE PORTIONS LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:
COMMENCING AT THE NE CORNER OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 26 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE ¼ (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1,111.06 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1,974.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SAID SECTION; THENCE NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST A DISTANCE OF 150.0 FEET; THENCE SOUTH 89 DEGREES 17 MINUTES 30 SECONDS WEST, A DISTANCE 14.50 FEET; THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE S ½ OF THE SW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ TO THE POINT OF BEGINNING, THENCE CONTINUE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 118 FEET FROM THE LAST POINT OF DEFLECTION; THENCE NORTH 87 DEGREES 05 MINUTES 43 SECONDS WEST, A DISTANCE OF 20.0 FEET, THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST, A DISTANCE OF 20 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE SW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.
ALSO LESS THE WEST 30.0 FEET OF THE SOUTH HALF (S ½) OF THE SOUTHWEST QUARTER (SW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.
ALSO LESS ALL THAT PORTION OF THE SOUTH 10.0 FEET OF THE SOUTH HALF (S ½) OF THE SOUTHWEST QUARTER (SW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, LYING WEST OF CENTRAL & SOUTHERN FLORIDA FLOOD CONTROL DISTRICT CANAL C-10 RIGHT OF WAY.
AND
THE NORTH ONE-HALF (N ½) OF THE SOUTHWEST ONE-QUARTER (SW ¼) OF THE NORTHWEST ONE-QUARTER (NW ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, LESS ALL OF THAT PORTION LYING EASTERLY OF THE FOLLOWING SPECIFICALLY DESCRIBED LINE:
COMMENCING AT THE NE CORNER OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BEAR SOUTH 87 DEGREES 26 MINUTES 41 SECONDS WEST, ALONG THE NORTH LINE OF SAID SE ¼ (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1,111.06 FEET; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 1,974.9 FEET, MORE OR LESS, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SW ¼ OF NW ¼ OF SE ¼ OF SE ¼ OF SAID SECTION; THENCE NORTH 87 DEGREES 31 MINUTES 28 SECONDS EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.02 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 0 DEGREES 42 MINUTES 30 SECONDS EAST, A DISTANCE OF 150.0 FEET; THENCE SOUTH 89 DEGREES 17 MINUTES 30 SECONDS WEST, A DISTANCE OF 14.50 FEET; THENCE SOUTH 2 DEGREES 54 MINUTES 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE NORTH ½ OF SW ¼ OF SE ¼ OF SE ¼ OF SAID 17 SECONDS WEST TO THE INTERSECTION THEREOF WITH THE SOUTH LINE OF THE NORTH ½ OF SW ¼ OF NW ¼ OF SE ¼ OF SE ¼ OF SAID SECTION AND THE END OF THE SPECIFICALLY DESCRIBED LINE.
ALSO LESS THE WEST 30.0 FEET OF THE NORTH HALF (N ½) OF THE SOUTH WEST QUARTER (SW ¼) OF THE NORTHWEST QUARTER (NW ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF THE SOUTHEAST QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

PARCEL 2
A PORTION OF THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;
COMMENCING AT THE NE CORNER OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, THENCE SOUTH 87°26'41" WEST (BASIS OF BEARING), ALONG THE NORTH LINE OF SAID SOUTHEAST ¼ (CENTERLINE OF NW 2ND STREET) A DISTANCE OF 1,111.05 FEET; THENCE SOUTH 00°50'21" EAST, A DISTANCE OF 1,977.24 FEET, TO THE INTERSECTION THEREOF WITH THE NORTH LINE OF THE SOUTHWEST ¼ OF THE NORTHWEST ¼ OF THE SOUTHEAST ¼ OF THE SOUTHEAST ¼ OF SAID SECTION; THENCE NORTH 87°33'42" EAST, ALONG SAID NORTH LINE, A DISTANCE OF 35.03 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 87°23'42" EAST, A DISTANCE OF 28.82 FEET; THENCE SOUTH 01°58'30" EAST, A DISTANCE OF 201.92 FEET; THENCE SOUTH 15°11'27" WEST, A DISTANCE OF 82.10 FEET; THENCE SOUTH 04°24'06" WEST, A DISTANCE OF 35.50 FEET; THENCE SOUTH 87°25'33" WEST, A DISTANCE OF 40.86 FEET TO A POINT ON THE EXISTING WESTERLY RIGHT OF WAY LINE OF CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT C-10 CANAL RIGHT OF WAY; THENCE NORTH 02°46'38" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 59.99 FEET; THENCE SOUTH 87°13'21" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 20.00 FEET; THENCE NORTH 02°46'38" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 118.00 FEET; THENCE NORTH 89°09'52" EAST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 14.50 FEET, THENCE NORTH 00°50'08" WEST ALONG THE AFOREMENTIONED WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 150.00 FEET TO THE POINT OF BEGINNING.

PARCEL A
PARCEL A OF CLARKE SUBDIVISION, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 101, PAGE 22 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; WHICH IS A PORTION OF THE NW ¼ OF THE NW ¼ OF THE SE ¼ OF THE SE ¼ OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST.

PARCEL B
A PARCEL OF LAND BEING LOCATED IN THE SOUTHEAST ONE-QUARTER (SE ¼) OF SECTION 33, TOWNSHIP 50 SOUTH, 42 RANGE EAST, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCE AT THE SOUTHEAST (SE) CORNER OF SAID SECTION 33; THENCE NORTH 01°17'46" WEST ALONG THE EAST LINE OF SAID SECTION 33 FOR A DISTANCE OF 1,340.79 FEET; THENCE SOUTH 87°30'33" WEST FOR A DISTANCE OF 1,118.51 FEET TO THE NORTHEAST (NE) CORNER OF A PARCEL OF LAND AS DESCRIBED IN OFFICIAL RECORDS BOOK 8775, PAGE 400 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA; THENCE SOUTH 01°26'53" EAST ALONG THE EAST LINE OF SAID PARCEL FOR A DISTANCE OF 50.01 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG AFORESAID LINE FOR A DISTANCE OF 25.00 FEET TO THE SOUTHEAST (SE) CORNER OF SAID PARCEL, (SAID POINT ALSO BEING THE NORTHEAST CORNER OF PARCEL A OF CLARKE SUBDIVISION PLAT) FOR A DISTANCE OF 185.10 FEET TO THE NORTHWEST (NW) CORNER OF PARCEL A OF SAID PLAT; THENCE NORTH 42°30'48" EAST, A DISTANCE OF 35.38 FEET, THENCE NORTH 87°30'33" EAST ALONG A LINE 25 FEET NORTH OF AND PARALLEL WITH THE NORTH LINE OF SAID CLARKE SUBDIVISION A DISTANCE OF 161.55 FEET TO THE POINT OF BEGINNING.
SAID LANDS LYING AND SITUATED IN THE CITY OF DANIA, BROWARD COUNTY, FLORIDA.

NOTES:
1. SIGNAGE BY SEPARATE PERMIT
2. REFER TO DEVELOPMENT GUIDELINES AND PMUD-SL ORDINANCE AND MASTER DEVELOPMENT PLAN.
3. ALL VEHICULAR MARKINGS TO BE THERMOPLASTIC

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

KHA PROJECT	147706000
DATE	DATE
SCALE	AS SHOWN
DESIGNED BY	
DRAWN BY	
CHECKED BY	

LICENSED PROFESSIONAL
JACOB B. LAWSON, P.E.
FLORIDA LICENSE NUMBER
83357
DATE:

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

No.	REVISIONS	DATE	BY

SITE PLAN

70 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-100

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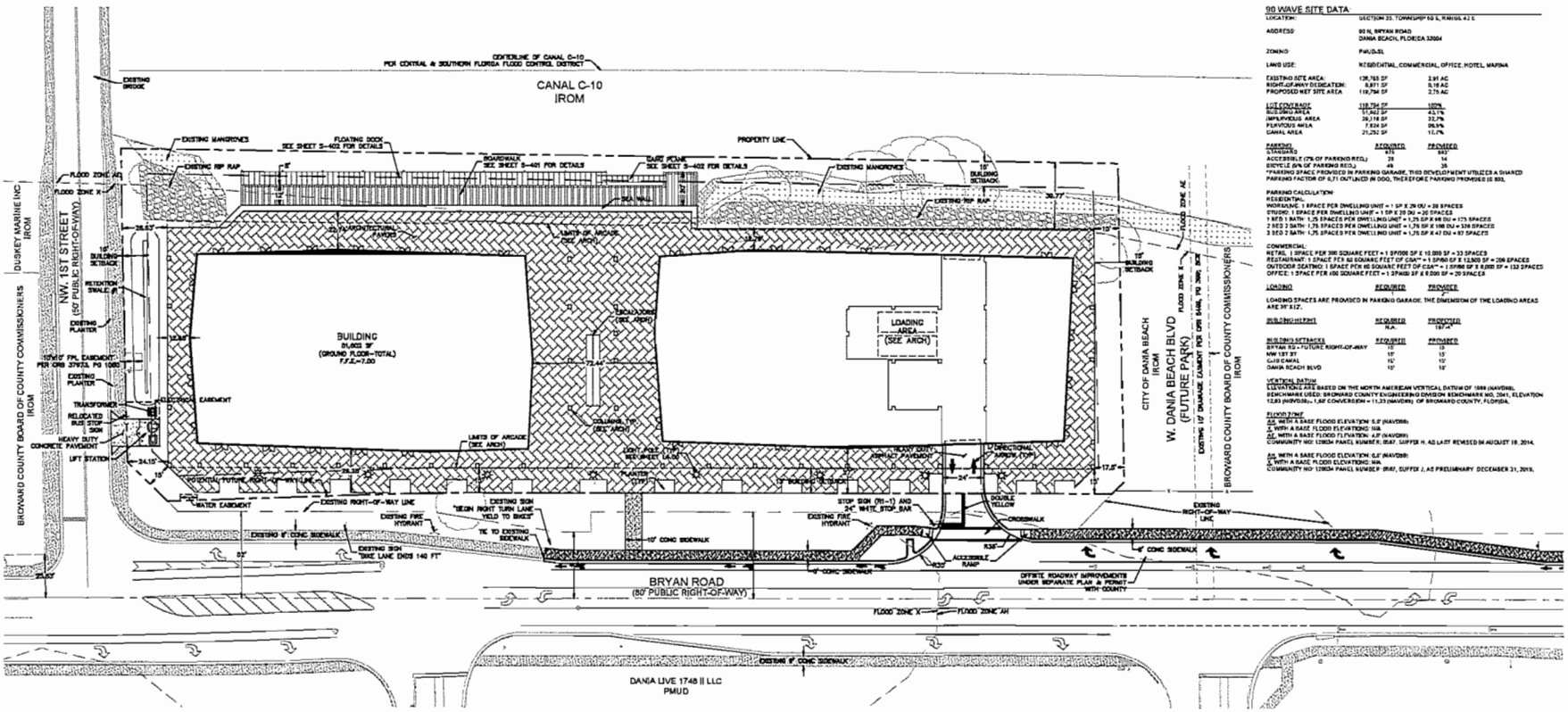
Plotted By: Kendall, Jeff Sheet Set: 147706000 - 70 Wave Layout: C-100 SITE PLAN June 24, 2020 08:32:10pm K:\VRB_LDEV\147706000 Dania Beach Marina\CAD\PlanSheets\70 Wave\C-100 SITE PLAN.dwg



GRAPHIC SCALE IN FEET
0 15 30 60

90 WAVE SITE DATA

LOCATION: SECTION 33, TOWNSHIP 50 S, RANGE 42 E

ADDRESS: 90 N. BRYAN ROAD
DANIA BEACH, FLORIDA 33004

ZONING: PMUD-SL

LAND USE: RESIDENTIAL, COMMERCIAL, OFFICE, HOTEL, MARINA

EXISTING SITE AREA:	126,765 SF	2.91 AC
RIGHT-OF-WAY DEDICATION:	8,871 SF	0.16 AC
PROPOSED NET SITE AREA	118,794 SF	2.75 AC

LOT COVERAGE	118,794 SF	100%
BUILDING AREA	51,962 SF	43.7%
IMPERVIOUS AREA	38,116 SF	32.1%
PERVIOUS AREA	7,524 SF	06.3%
CANAL AREA	21,252 SF	17.9%

PARKING	REQUIRED	PROVIDED
STANDARD	415	557
ACCESSIBLE (7% OF PARKING REQ.)	29	14
BICYCLE (5% OF PARKING REQ.)	44	35

*PARKING SPACE PROVIDED IN PARKING GARAGE. THIS DEVELOPMENT UTILIZES A SHARED PARKING FACTOR OF 0.71 OUT LIKELY (IN 000), THEREFORE PARKING PROVIDED IS 395.

PARKING CALCULATION
RESIDENTIAL:
WORKAME: 1 SPACE PER DWELLING UNIT = 1 SP X 29 DU = 29 SPACES
STUDIO: 1 SPACE PER DWELLING UNIT = 1 SP X 20 DU = 20 SPACES
1 BED 1 BATH: 1.25 SPACES PER DWELLING UNIT = 1.25 SP X 98 DU = 175 SPACES
2 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 198 DU = 338 SPACES
3 BED 2 BATH: 1.75 SPACES PER DWELLING UNIT = 1.75 SP X 47 DU = 82 SPACES

COMMERCIAL:
RETAIL: 1 SPACE PER 300 SQUARE FEET = 1 SP/300 SF X 10,000 SF = 33 SPACES
RESTAURANT: 1 SPACE PER 60 SQUARE FEET OF GSA** = 1 SP/60 SF X 12,500 SF = 208 SPACES
OUTDOOR SEATING: 1 SPACE PER 60 SQUARE FEET OF GSA** = 1 SP/60 SF X 8,000 SF = 133 SPACES
OFFICE: 1 SPACE PER 150 SQUARE FEET = 1 SP/150 SF X 3,000 SF = 20 SPACES

LOADING	REQUIRED	PROVIDED

LOADING SPACES ARE PROVIDED IN PARKING GARAGE. THE DIMENSION OF THE LOADING AREAS ARE 30'X12'.

BUILDING HEIGHT	REQUIRED	PROVIDED
	N.A.	137'-0"

BUILDING SETBACKS	REQUIRED	PROVIDED
BRYAN RD - FUTURE RIGHT-OF-WAY	10'	13'
NW 1ST ST	10'	15'
C-10 CANAL	10'	10'
DANIA BEACH BLVD	10'	10'

VERTICAL DATUM
ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
BENCHMARK USED: BROWARD COUNTY ENGINEERING DIVISION BENCHMARK NO. 2041, ELEVATION 12.83 (NGVD29). 1.87 CONVERSION = 11.33 (NAVD88) OF BROWARD COUNTY, FLORIDA.

FLOOD ZONE
AE: WITH A BASE FLOOD ELEVATION: 6.0' (NAVD88)
X WITH A BASE FLOOD ELEVATION: N/A
AE: WITH A BASE FLOOD ELEVATION: 4.0' (NAVD88)
COMMUNITY NO: 12086H PANEL NUMBER: 0147, SUFFIX H, AS LAST REVISED IN AUGUST 18, 2014.

AH: WITH A BASE FLOOD ELEVATION: 6.0' (NAVD88)
X WITH A BASE FLOOD ELEVATIONS: N/A
COMMUNITY NO: 12086H PANEL NUMBER: 0147, SUFFIX J, AS PRELIMINARY DECEMBER 31, 2019.

LEGAL DESCRIPTION - NORTH BUILDING

ALL OF PARCEL A, BRYAN ROAD WAREHOUSES, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 170, PAGE 112, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA, TOGETHER WITH A 40 FOOT STRIP OF LAND LYING ADJACENT TO AND CONTIGUOUS WITH THE EASTERLY BOUNDARY OF SAID PARCEL A.

NOTES:
1. SIGNAGE BY SEPARATE PERMIT
2. REFER TO DEVELOPMENT GUIDELINES AND PMUD-SL ORDINANCE AND MASTER DEVELOPMENT PLAN.
3. ALL VEHICULAR MARKINGS TO BE THERMOPLASTIC

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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DIAL 811
811 Know what's below. Call before you dig.
SUNSHINE STATE ONE CALL OF FLORIDA INC.

No.	REVISIONS	DATE	BY

Kimley»Horn
© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
445 21ST STREET, SUITE 200, VERO BEACH, FL 32960
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WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL
JACOB B. LARSON, P.E.
FLORIDA LICENSE NUMBER 83357
DATE: ____

KHA PROJECT 147706000
DATE
DATE
SCALE AS SHOWN
DESIGNED BY ____
DRAWN BY ____
CHECKED BY ____

SITE PLAN

90 WAVE
PREPARED FOR
DANIA BEACH MARINE CORP.
CITY OF DANIA BEACH FLORIDA

SHEET NUMBER
C-100

Kimley»Horn

APPENDIX B: TURNING MOVEMENT VOLUME DATA

WEEKDAY AM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS							NET NEW EXTERNAL TRIPS		
		Land Use	ITE Edition	ITE Code	Scale	ITE Units	ITE Rate/Forumla	R2	In	Out	Total
GROUP 1	1	General Commercial	10	820	638.287	ksf	269		191	78	269
	2	General Office Building	10	710	506	ksf	442		402	40	442
	3	Mid-Rise Apartment	10	221	600	DU	192		48	144	192
	4	High-Rise Apartment	10	222	400	DU	121		28	93	121
	5	Hotel	10	310	350	Room	138		84	54	138
	6	Drive-In Bank	10	912	7	ksf	35		23	12	35
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
									776	421	1,197

ITE Land Use Code	Rate or Equation
820	Y=0.5*(X)+151.78
710	Y=0.94*(X)+26.49
221	LN(Y) = 0.98*LN(X)+-0.98
222	Y=0.28*(X)+12.86
310	Y=0.5*(X)+-5.34
912	Y=9.5(X)

WEEKDAY PM PEAK HOUR TRIP GENERATION

		ITE TRIP GENERATION CHARACTERISTICS							NET NEW EXTERNAL TRIPS		
		Land Use	ITE Edition	ITE Code	Scale	ITE Units	ITE Rate/Forumla	R2	In	Out	Total
GROUP 2	1	General Commercial	10	820	638.287	ksf	1126		520	606	1,126
	2	General Office Building	10	710	506	ksf	407		23	384	407
	3	Mid-Rise Apartment	10	221	600	DU	123		89	34	123
	4	High-Rise Apartment	10	222	400	DU	73		52	21	73
	5	Hotel	10	310	350	Room	190		97	93	190
	6	Drive-In Bank	10	912	7	ksf	64		32	32	64
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
									813	1,170	1,983

ITE Land Use Code	Rate or Equation
820	LN(Y) = 0.74*LN(X)+2.89
710	LN(Y) = 0.95*LN(X)+0.36
221	LN(Y) = 0.96*LN(X)+-0.63
222	Y=0.34*(X)+8.56
310	Y=0.75*(X)+-26.02
912	Y=20.45(X)

Number	North	South	East	West
1		Bryan Rd	Old Griffin Rd	Old Griffin Rd
2	Bryan Rd	Bryan Rd	NW 1st	
3	Bryan Rd		Stirling Rd	Stirling Rd

Turning Movement Count
60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
		1	133		52						277	33		
		2		63	21		171					23		23
		3				48		161	219	17			39	46

#1

		0	0	0	
	0				0
	0				0
I	0.35				0.04 I
		0.28	0	0.11	
		o		o	

#2

			I		
		0.1	0.22	0	
	0				0.03 I
	0				0
	0				0.03 I
		0	0.15	0.05	
			o	o	

#3

		o		o	
		0.31	0	0.06	
I	0.27				0.05 I
o	0.04				0.05 I
	0				0
		0	0	0	

AM NET NEW EXTERNAL TRIPS		
In	Out	Total
191	78	269
402	40	442
48	144	192
28	93	121
84	54	138
23	12	35
776	421	1,197

Number	North	South	East	West
1		Bryan Rd	Old Griffin Rd	Old Griffin Rd
2	Bryan Rd	Bryan Rd	NW 1st	
3	Bryan Rd		Stirling Rd	Stirling Rd

Turning Movement Count
60 Minute Counts

DATE	TIME	INTID	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
		1	536		133						299	35		
		2		176	59		179					24		24
		3				64		380	247	47			41	63

#1

		0	0	0
	0			0
	0			0
i	0.35			0.04 i
		0.28	0	0.11
		o		o

#2

			i	
		0.1	0.22	0
	0			0.03 i
	0			0
	0			0.03 i
		0	0.15	0.05
			o	o

#3

		o		o
		0.31	0	0.06
i	0.27			0.05 i
o	0.04			0.05 i
	0			0
		0	0	0

PM NET NEW EXTERNAL TRIPS

In	Out	Total
520	606	1,126
73	384	457
89	34	123
52	21	73
67	33	100
32	32	64
813	1,170	1,983

Traf Tech
ENGINEERING, INC.

NEW PROJECT TRAFFIC ASSIGNMENT
AM & (PM) New Peak Hour Trips

FIGURE 4
150 S. Bryan Road
Dania Beach, Florida

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach
Control: Signalized

Project ID: 19-03588-001
Date: 9/12/2019

Total

NS/EW Streets:	Bryan Rd				Bryan Rd				Stirling Rd				Stirling Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	15	0	29	0	30	174	0	0	0	154	9	0	411
7:15 AM	0	0	0	0	10	0	25	0	23	206	0	3	0	181	8	0	456
7:30 AM	0	0	0	0	17	1	34	0	29	171	0	0	0	201	12	0	465
7:45 AM	0	0	0	0	25	0	34	1	29	234	0	0	0	209	16	0	548
8:00 AM	0	0	0	0	19	0	45	1	32	217	0	3	0	175	16	0	508
8:15 AM	0	0	0	0	10	0	23	0	36	251	0	0	0	201	10	0	531
8:30 AM	0	0	0	0	21	0	29	0	32	240	0	1	0	258	13	0	594
8:45 AM	0	0	0	0	24	0	21	0	31	243	0	1	0	230	12	0	562
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	141	1	240	2	242	1736	0	8	0	1609	96	0	4075
APPROACH %'s :					36.72%	0.26%	62.50%	0.52%	12.19%	87.41%	0.00%	0.40%	0.00%	94.37%	5.63%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	74	0	118	1	131	951	0	5	0	864	51	0	2195
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.771	0.000	0.656	0.250	0.910	0.947	0.000	0.417	0.000	0.837	0.797	0.000	0.924
					0.742				0.947				0.844				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	40	0	26	0	24	225	0	0	0	159	15	0	489
4:15 PM	0	0	0	0	39	0	67	0	23	235	0	0	0	391	19	0	774
4:30 PM	0	0	0	0	40	0	55	1	17	208	0	1	0	311	12	0	645
4:45 PM	0	0	0	0	36	0	43	0	19	248	0	0	0	295	17	0	658
5:00 PM	0	0	0	0	37	0	60	0	36	263	0	0	0	353	19	0	768
5:15 PM	0	0	0	0	42	0	48	2	21	216	0	1	0	301	21	0	652
5:30 PM	0	0	0	0	36	0	51	2	31	239	0	2	0	291	19	0	671
5:45 PM	0	0	0	0	59	0	61	1	17	236	0	3	0	231	13	1	622
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	329	0	411	6	188	1870	0	7	0	2332	135	1	5279
APPROACH %'s :					44.10%	0.00%	55.09%	0.80%	9.10%	90.56%	0.00%	0.34%	0.00%	94.49%	5.47%	0.04%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	0	0	0	152	0	225	1	95	954	0	1	0	1350	67	0	2845
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.950	0.000	0.840	0.250	0.660	0.907	0.000	0.250	0.000	0.863	0.882	0.000	0.919
					0.892				0.878				0.864				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach
Control: Signalized

Project ID: 19-03588-001
Date: 9/12/2019

Cars

NS/EW Streets:	Bryan Rd				Bryan Rd				Stirling Rd				Stirling Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	14	0	27	0	29	170	0	0	0	148	7	0	395
7:15 AM	0	0	0	0	10	0	23	0	23	201	0	3	0	171	8	0	439
7:30 AM	0	0	0	0	17	1	34	0	29	164	0	0	0	195	11	0	451
7:45 AM	0	0	0	0	24	0	33	1	27	228	0	0	0	199	16	0	528
8:00 AM	0	0	0	0	19	0	44	1	31	208	0	3	0	165	16	0	487
8:15 AM	0	0	0	0	8	0	21	0	35	238	0	0	0	194	10	0	506
8:30 AM	0	0	0	0	18	0	25	0	30	226	0	1	0	244	12	0	556
8:45 AM	0	0	0	0	22	0	20	0	31	229	0	1	0	222	11	0	536
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	132	1	227	2	235	1664	0	8	0	1538	91	0	3898
APPROACH %'s :					36.46%	0.28%	62.71%	0.55%	12.32%	87.26%	0.00%	0.42%	0.00%	94.41%	5.59%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	67	0	110	1	127	901	0	5	0	825	49	0	2085
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.761	0.000	0.625	0.250	0.907	0.946	0.000	0.417	0.000	0.845	0.766	0.000	0.938
					0.695				0.946				0.854				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	40	0	24	0	23	218	0	0	0	146	15	0	466
4:15 PM	0	0	0	0	38	0	66	0	21	230	0	0	0	382	18	0	755
4:30 PM	0	0	0	0	38	0	52	1	16	205	0	1	0	300	11	0	624
4:45 PM	0	0	0	0	35	0	40	0	17	245	0	0	0	286	15	0	638
5:00 PM	0	0	0	0	36	0	58	0	35	257	0	0	0	343	18	0	747
5:15 PM	0	0	0	0	42	0	47	2	21	208	0	1	0	293	20	0	634
5:30 PM	0	0	0	0	35	0	49	2	29	237	0	2	0	289	18	0	661
5:45 PM	0	0	0	0	59	0	60	1	17	233	0	3	0	225	13	1	612
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	323	0	396	6	179	1833	0	7	0	2264	128	1	5137
APPROACH %'s :					44.55%	0.00%	54.62%	0.83%	8.87%	90.79%	0.00%	0.35%	0.00%	94.61%	5.35%	0.04%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	0	0	0	147	0	216	1	89	937	0	1	0	1311	62	0	2764
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.967	0.000	0.818	0.250	0.636	0.911	0.000	0.250	0.000	0.858	0.861	0.000	0.915
					0.875				0.879				0.858				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach
Control: Signalized

Project ID: 19-03588-001
Date: 9/12/2019

HT

NS/EW Streets:	Bryan Rd				Bryan Rd				Stirling Rd				Stirling Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	1	0	2	0	1	4	0	0	0	6	2	0	16
7:15 AM	0	0	0	0	0	0	2	0	0	5	0	0	0	10	0	0	17
7:30 AM	0	0	0	0	0	0	0	0	0	7	0	0	0	6	1	0	14
7:45 AM	0	0	0	0	1	0	1	0	2	6	0	0	0	10	0	0	20
8:00 AM	0	0	0	0	0	0	1	0	1	9	0	0	0	10	0	0	21
8:15 AM	0	0	0	0	2	0	2	0	1	13	0	0	0	7	0	0	25
8:30 AM	0	0	0	0	3	0	4	0	2	14	0	0	0	14	1	0	38
8:45 AM	0	0	0	0	2	0	1	0	0	14	0	0	0	8	1	0	26
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	9	0	13	0	7	72	0	0	0	71	5	0	177
APPROACH %'s :					40.91%	0.00%	59.09%	0.00%	8.86%	91.14%	0.00%	0.00%	0.00%	93.42%	6.58%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	7	0	8	0	4	50	0	0	0	39	2	0	110
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.583	0.000	0.500	0.000	0.500	0.893	0.000	0.000	0.000	0.696	0.500	0.000	0.724
					0.536				0.844				0.683				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	2	0	1	7	0	0	0	13	0	0	23
4:15 PM	0	0	0	0	1	0	1	0	2	5	0	0	0	9	1	0	19
4:30 PM	0	0	0	0	2	0	3	0	1	3	0	0	0	11	1	0	21
4:45 PM	0	0	0	0	1	0	3	0	2	3	0	0	0	9	2	0	20
5:00 PM	0	0	0	0	1	0	2	0	1	6	0	0	0	10	1	0	21
5:15 PM	0	0	0	0	0	0	1	0	0	8	0	0	0	8	1	0	18
5:30 PM	0	0	0	0	1	0	2	0	2	2	0	0	0	2	1	0	10
5:45 PM	0	0	0	0	0	0	1	0	0	3	0	0	0	6	0	0	10
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	6	0	15	0	9	37	0	0	0	68	7	0	142
APPROACH %'s :					28.57%	0.00%	71.43%	0.00%	19.57%	80.43%	0.00%	0.00%	0.00%	90.67%	9.33%	0.00%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	0	0	0	5	0	9	0	6	17	0	0	0	39	5	0	81
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.625	0.000	0.750	0.000	0.750	0.708	0.000	0.000	0.000	0.886	0.625	0.000	0.964
					0.700				0.821				0.917				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach
Control: Signalized

Project ID: 19-03588-001
Date: 9/12/2019

Bikes

NS/EW Streets:	Bryan Rd				Bryan Rd				Stirling Rd				Stirling Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
8:00 AM	0	0	0	0	0	0	3	0	0	0	0	0	0	3	2	0	8
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	1	0	0	0	2	0	0	0	0	1	2	0	6
8:45 AM	0	0	0	0	1	0	2	0	0	1	0	0	0	2	1	0	7
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	2	0	5	0	2	5	0	0	0	7	6	0	27
APPROACH %'s :					28.57%	0.00%	71.43%	0.00%	28.57%	71.43%	0.00%	0.00%	0.00%	53.85%	46.15%	0.00%	
PEAK HR :	00:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	0	0	0	0	2	0	5	0	2	2	0	0	0	6	5	0	22
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.500	0.000	0.417	0.000	0.250	0.500	0.000	0.000	0.000	0.500	0.625	0.000	0.688
					0.583				0.500				0.550				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	3
4:15 PM	0	0	0	0	1	0	0	0	2	0	0	0	0	2	1	0	6
4:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
5:00 PM	0	0	0	0	1	0	0	0	1	1	0	0	0	1	1	0	5
5:15 PM	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	4	0	2	0	6	1	0	0	0	8	5	0	26
APPROACH %'s :					66.67%	0.00%	33.33%	0.00%	85.71%	14.29%	0.00%	0.00%	0.00%	61.54%	38.46%	0.00%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	0	0	0	0	2	0	0	0	4	1	0	0	0	4	4	0	15
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.500	0.250	0.000	0.000	0.000	0.500	0.500	0.000	0.625
					0.500				0.625				0.667				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Stirling Rd
City: Dania Beach

Project ID: 19-03588-001
Date: 9/12/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Bryan Rd		Bryan Rd		Stirling Rd		Stirling Rd		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	1	4	0	0	0	0	0	0	5
7:30 AM	2	0	0	0	0	0	0	0	2
7:45 AM	1	1	0	0	0	0	0	0	2
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	1	1	0	0	0	0	0	0	2
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	5	6	0	0	0	0	0	0	11
APPROACH %'s :	45.45%	54.55%							
PEAK HR :	**08:00 AM - 09:00 AM**								TOTAL
PEAK HR VOL :	1	1	0	0	0	0	0	0	2
PEAK HR FACTOR :	0.250	0.250							0.250
	0.250								

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	1	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	1	0	0	0	0	0	0	1
APPROACH %'s :	0.00%	100.00%							
PEAK HR :	**04:15 PM - 05:15 PM**								TOTAL
PEAK HR VOL :	0	1	0	0	0	0	0	0	1
PEAK HR FACTOR :		0.250							0.250
	0.250								

Prepared by National Data & Surveying Services

Bryan Rd & Stirling Rd

Peak Hour Turning Movement Count

ID: 19-03588-001
City: Dania Beach

Day: Thursday
Date: 09/12/2019

PEAK HOURS		COUNT PERIODS
AM	08:00 AM - 09:00 AM	07:00 AM - 09:00 AM
NOON	NONE	NONE
PM	04:15 PM - 05:15 PM	04:00 PM - 06:00 PM

Bryan Rd — SOUTHBOUND

	Right	Thru	Left	U-Turn	Approach total (out)
AM	118	0	74	1	183
NOON	0	0	0	0	0
PM	225	0	152	1	163
(red)	0	0	0	0	

Stirling Rd — EASTBOUND

	AM	NOON	PM	(red)
Total (in)	987	0	1576	
U-Turn	5	0	1	0
Left	131	0	95	0
Thru	951	0	954	0
Right	0	0	0	0

Stirling Rd — WESTBOUND

	PM	NOON	AM	(red)
Right	67	0	51	0
Thru	1350	0	864	0
Left	0	0	0	0
U-Turn	0	0	0	0
Total (out)	1106	0	1025	

CONTROL

Signalized

	AM	NOON	PM
TEV	2195	0	2845
PHF	0.92		0.92

Bryan Rd — NORTHBOUND

	Total	U-Turn	Left	Thru	Right
(red)		0	0	0	0
PM	0	0	0	0	0
NOON	0	0	0	0	0
AM	0	0	0	0	0

Cars (AM)

Approach	Left	Thru	Right
Southbound	67	0	110
Eastbound	127	901	0
Westbound	0	825	49
Northbound	0	0	0

HT (AM)

Approach	Left	Thru	Right
Southbound	7	0	8
Eastbound	4	50	0
Westbound	0	39	2
Northbound	0	0	0

Cars (NOON)

Approach	Left	Thru	Right
Southbound	N/A	N/A	N/A
Eastbound	N/A	N/A	N/A
Westbound	N/A	N/A	N/A
Northbound	N/A	N/A	N/A

HT (NOON)

Approach	Left	Thru	Right
Southbound	N/A	N/A	N/A
Eastbound	N/A	N/A	N/A
Westbound	N/A	N/A	N/A
Northbound	N/A	N/A	N/A

Cars (PM)

Approach	Left	Thru	Right
Southbound	147	0	216
Eastbound	89	937	0
Westbound	0	1311	62
Northbound	0	0	0

HT (PM)

Approach	Left	Thru	Right
Southbound	5	0	9
Eastbound	6	17	0
Westbound	0	39	5
Northbound	0	0	0

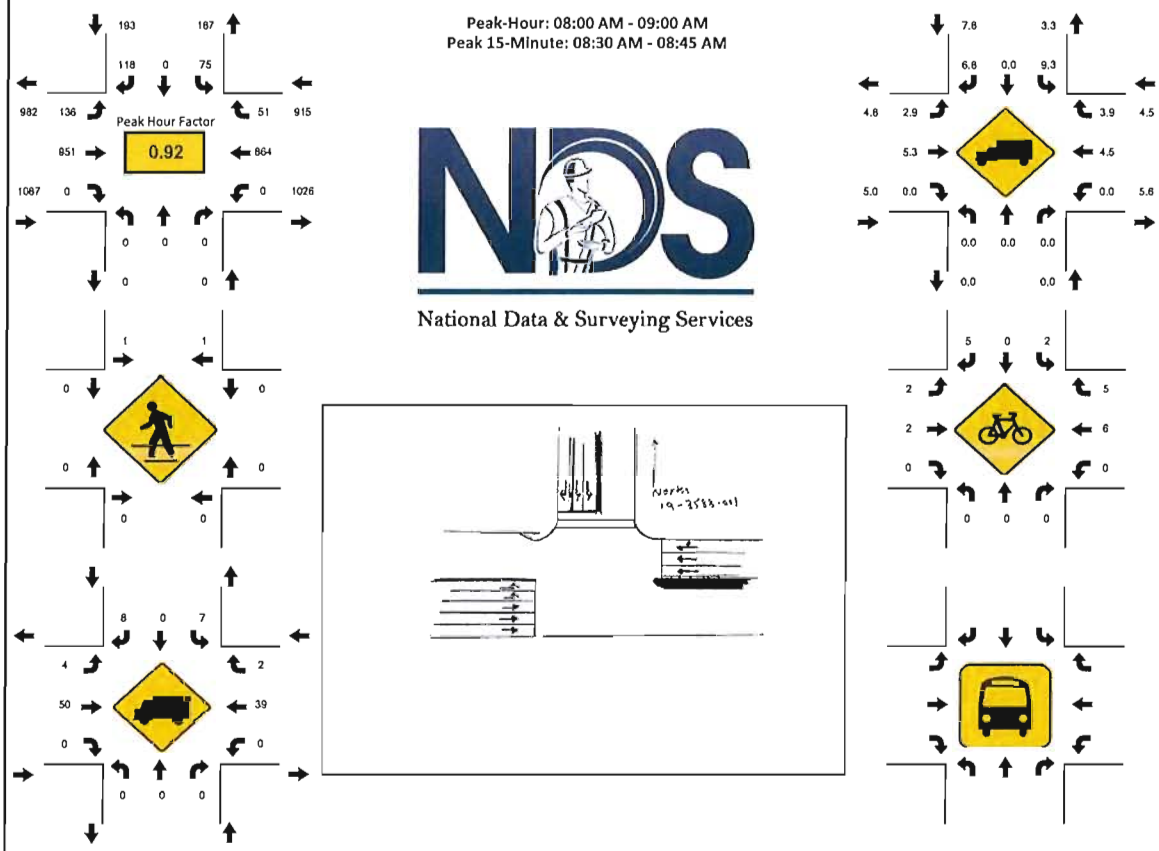
Pedestrians (Crosswalks)

Crosswalk	AM	NOON	PM
North leg (westward)	1	0	0
North leg (eastward)	1	0	1
West leg (southward)	0	0	0
West leg (northward)	0	0	0
East leg (southward)	0	0	0
East leg (northward)	0	0	0
South leg (eastward)	0	0	0
South leg (westward)	0	0	0
NW diagonal	0	0	0
NE diagonal	0	0	0
SW diagonal	0	0	0
SE diagonal	0	0	0

LOCATION: Bryan Rd & Stirling Rd
CITY/STATE: Danla Beach, FL

PROJECT ID: 19-03588-001
DATE: 09/12/2019

Peak-Hour: 08:00 AM - 09:00 AM
Peak 15-Minute: 08:30 AM - 08:45 AM

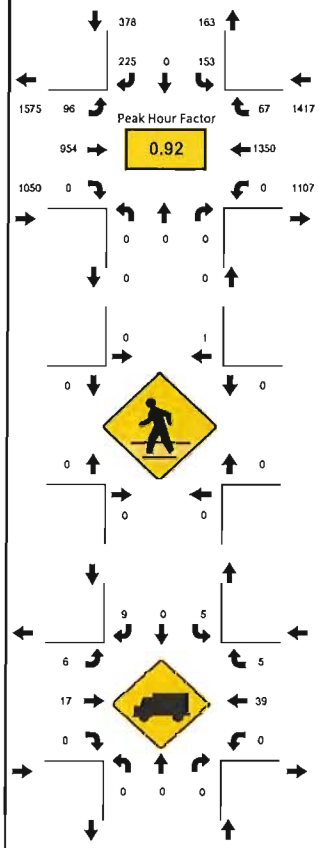


15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					Stirling Rd Eastbound					Stirling Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
07:00 AM	0	0	0	0		15	0	29	0		30	174	0	0		0	154	9	0		411	1880
07:15 AM	0	0	0	0		10	0	25	0		23	206	0	3		0	181	8	0		456	1977
07:30 AM	0	0	0	0		17	1	34	0		29	171	0	0		0	201	12	0		465	2052
07:45 AM	0	0	0	0		25	0	34	1		29	234	0	0		0	209	16	0		548	2181
08:00 AM	0	0	0	0		19	0	45	1		32	217	0	3		0	175	16	0		508	2195
08:15 AM	0	0	0	0		10	0	23	0		36	251	0	0		0	201	10	0		531	1687
08:30 AM	0	0	0	0		21	0	29	0		32	240	0	1		0	258	13	0		594	1156
08:45 AM	0	0	0	0		24	0	21	0		31	243	0	1		0	230	12	0		562	562
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
All Vehicles	0	0	0	0		96	0	180	4		144	1004	0	12		0	1032	64	0		2536	
Heavy Trucks	0	0	0			12	0	16			8	56	0			0	56	4			152	
Pedestrians		0					8					0					0				8	
Bicycles	0	0	0			4	0	12			8	4	0			0	12	8			48	
Railroad																						
Stopped Buses																						

LOCATION: Bryan Rd & Stirling Rd
CITY/STATE: Dania Beach, FL

PROJECT ID: 19-03588-001
DATE: 09/12/2019

Peak-Hour: 04:15 PM - 05:15 PM
Peak 15-Minute: 04:15 PM - 04:30 PM



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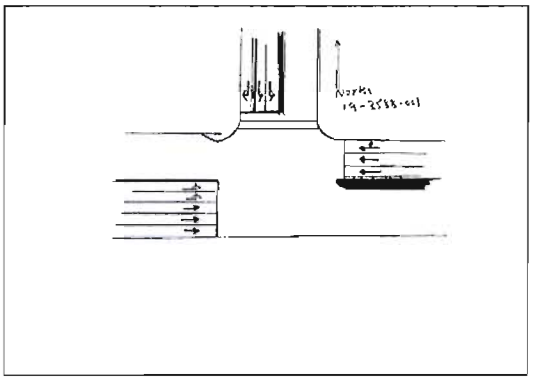
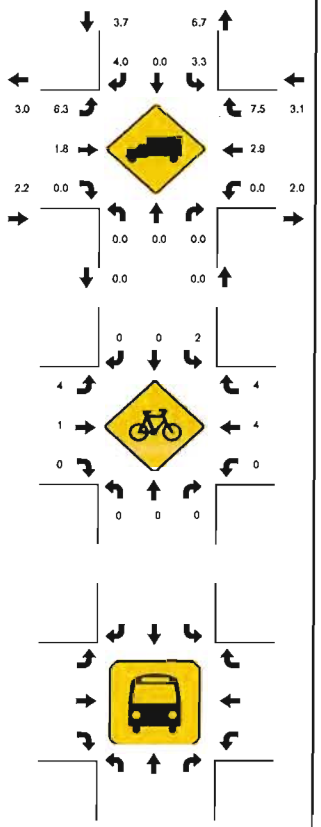




15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					Stirling Rd Eastbound					Stirling Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	0	0	0	0		40	0	26	0		24	225	0	0		0	159	15	0		489	2566
04:15 PM	0	0	0	0		39	0	67	0		23	235	0	0		0	391	19	0		774	2845
04:30 PM	0	0	0	0		40	0	55	1		17	208	0	1		0	311	12	0		645	2723
04:45 PM	0	0	0	0		36	0	43	0		19	248	0	0		0	295	17	0		658	2749
05:00 PM	0	0	0	0		37	0	60	0		36	263	0	0		0	353	19	0		768	2713
05:15 PM	0	0	0	0		42	0	48	2		21	216	0	1		0	301	21	0		652	1945
05:30 PM	0	0	0	0		36	0	51	2		31	239	0	2		0	291	19	0		671	1293
05:45 PM	0	0	0	0		59	0	61	1		17	236	0	3		0	231	13	1		622	622

Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	
All Vehicles	0	0	0	0		160	0	268	4		144	1052	0	4		0	1564	76	0		3272
Heavy Trucks	0	0	0			8	0	12			8	24	0			0	44	8			104
Pedestrians		0					4					0					0				4
Bicycles	0	0	0			4	0	0			8	4	0			0	8	8			32
Railroad																					
Stopped Buses																					

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach
Control: 1-Way Stop (EB)

Project ID: 19-03588-002
Date: 9/12/2019

Total

NS/EW Streets:	Bryan Rd				Bryan Rd				NW 1st St				NW 1st St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	31	5	0	12	22	0	0	0	0	0	0	27	0	12	0	109
7:15 AM	0	20	14	0	21	29	0	0	0	0	0	0	22	0	22	0	128
7:30 AM	0	22	14	0	16	30	0	0	0	0	0	0	35	0	18	0	135
7:45 AM	0	42	15	0	17	55	0	0	0	0	0	0	33	0	13	0	175
8:00 AM	0	34	11	0	4	44	0	0	0	0	0	0	18	0	16	0	127
8:15 AM	0	31	20	0	9	36	0	0	0	0	0	0	23	0	16	0	135
8:30 AM	0	30	6	0	14	47	0	0	0	0	0	0	11	0	12	0	120
8:45 AM	0	25	11	0	9	53	0	0	0	0	0	0	22	0	16	0	136
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	235	96	0	102	316	0	0	0	0	0	0	191	0	125	0	1065
APPROACH %'s :	0.00%	71.00%	29.00%	0.00%	24.40%	75.60%	0.00%	0.00%					60.44%	0.00%	39.56%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	129	60	0	46	165	0	0	0	0	0	0	109	0	63	0	572
PEAK HR FACTOR :	0.000	0.768	0.750	0.000	0.676	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.779	0.000	0.875	0.000	0.817
		0.829				0.733								0.811			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	22	14	0	18	64	0	0	0	0	0	0	21	0	13	0	152
4:15 PM	0	19	18	0	20	69	0	0	0	0	0	0	28	0	19	0	173
4:30 PM	0	28	13	0	19	68	0	0	0	0	0	0	27	0	16	0	171
4:45 PM	0	22	13	0	12	88	0	0	0	0	0	0	19	0	8	0	162
5:00 PM	0	31	24	0	17	102	0	0	0	0	0	0	19	0	14	0	207
5:15 PM	0	33	19	0	15	111	0	0	0	0	0	0	22	0	12	0	212
5:30 PM	0	28	19	0	23	96	0	0	0	0	0	0	13	0	12	0	191
5:45 PM	0	26	16	0	19	87	0	0	0	0	0	0	23	0	7	0	178
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	209	136	0	143	685	0	0	0	0	0	0	172	0	101	0	1446
APPROACH %'s :	0.00%	60.58%	39.42%	0.00%	17.27%	82.73%	0.00%	0.00%					63.00%	0.00%	37.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	118	78	0	74	396	0	0	0	0	0	0	77	0	45	0	788
PEAK HR FACTOR :	0.000	0.894	0.813	0.000	0.804	0.892	0.000	0.000	0.000	0.000	0.000	0.000	0.837	0.000	0.804	0.000	0.929
		0.891				0.933								0.897			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach
Control: 1-Way Stop (EB)

Project ID: 19-03588-002
Date: 9/12/2019

Cars

NS/EW Streets:	Bryan Rd				Bryan Rd				NW 1st St				NW 1st St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	28	5	0	11	22	0	0	0	0	0	0	25	0	12	0	103
7:15 AM	0	20	14	0	21	27	0	0	0	0	0	0	22	0	21	0	125
7:30 AM	0	21	14	0	15	29	0	0	0	0	0	0	35	0	18	0	132
7:45 AM	0	39	15	0	15	53	0	0	0	0	0	0	33	0	12	0	167
8:00 AM	0	33	11	0	4	42	0	0	0	0	0	0	18	0	16	0	124
8:15 AM	0	29	20	0	7	33	0	0	0	0	0	0	22	0	15	0	126
8:30 AM	0	28	6	0	14	44	0	0	0	0	0	0	11	0	12	0	115
8:45 AM	0	24	9	0	8	49	0	0	0	0	0	0	21	0	15	0	126
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	222	94	0	95	299	0	0	0	0	0	0	187	0	121	0	1018
APPROACH %'s :	0.00%	70.25%	29.75%	0.00%	24.11%	75.89%	0.00%	0.00%					60.71%	0.00%	39.29%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	122	60	0	41	157	0	0	0	0	0	0	108	0	61	0	549
PEAK HR FACTOR :	0.00	0.782	0.750	0.000	0.683	0.741	0.000	0.000	0.000	0.000	0.000	0.000	0.771	0.000	0.847	0.000	0.822
		0.843				0.728								0.797			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	21	14	0	17	58	0	0	0	0	0	0	21	0	13	0	144
4:15 PM	0	16	16	0	19	67	0	0	0	0	0	0	28	0	18	0	164
4:30 PM	0	27	12	0	17	67	0	0	0	0	0	0	24	0	14	0	161
4:45 PM	0	21	13	0	12	82	0	0	0	0	0	0	18	0	8	0	154
5:00 PM	0	31	24	0	16	101	0	0	0	0	0	0	19	0	13	0	204
5:15 PM	0	32	18	0	15	111	0	0	0	0	0	0	22	0	12	0	210
5:30 PM	0	25	19	0	22	95	0	0	0	0	0	0	12	0	11	0	184
5:45 PM	0	26	16	0	19	87	0	0	0	0	0	0	23	0	7	0	178
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	199	132	0	137	668	0	0	0	0	0	0	167	0	96	0	1399
APPROACH %'s :	0.00%	60.12%	39.88%	0.00%	17.02%	82.98%	0.00%	0.00%					63.50%	0.00%	36.50%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	114	77	0	72	394	0	0	0	0	0	0	76	0	43	0	776
PEAK HR FACTOR :	0.00	0.891	0.802	0.000	0.818	0.887	0.000	0.000	0.000	0.000	0.000	0.000	0.826	0.000	0.827	0.000	0.924
		0.868				0.925								0.875			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach
Control: 1-Way Stop (EB)

Project ID: 19-03588-002
Date: 9/12/2019

HT

NS/EW Streets:	Bryan Rd				Bryan Rd				NW 1st St				NW 1st St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	3	0	0	1	0	0	0	0	0	0	0	2	0	0	0	6
7:15 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	3
7:30 AM	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3
7:45 AM	0	3	0	0	2	2	0	0	0	0	0	0	0	0	1	0	8
8:00 AM	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
8:15 AM	0	2	0	0	2	3	0	0	0	0	0	0	1	0	1	0	9
8:30 AM	0	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	5
8:45 AM	0	1	2	0	1	4	0	0	0	0	0	0	1	0	1	0	10
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	13	2	0	7	17	0	0	0	0	0	0	4	0	4	0	47
APPROACH %'s :	0.00%	86.67%	13.33%	0.00%	29.17%	70.83%	0.00%	0.00%					50.00%	0.00%	50.00%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	7	0	0	5	8	0	0	0	0	0	0	1	0	2	0	23
PEAK HR FACTOR :	0.000	0.583	0.000	0.000	0.625	0.667	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.500	0.000	0.639
		0.583				0.650								0.375			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	1	0	0	1	6	0	0	0	0	0	0	0	0	0	0	8
4:15 PM	0	3	2	0	1	2	0	0	0	0	0	0	0	0	1	0	9
4:30 PM	0	1	1	0	2	1	0	0	0	0	0	0	3	0	2	0	10
4:45 PM	0	1	0	0	0	6	0	0	0	0	0	0	1	0	0	0	8
5:00 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	3
5:15 PM	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	3	0	0	1	1	0	0	0	0	0	0	1	0	1	0	7
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	10	4	0	6	17	0	0	0	0	0	0	5	0	S	0	47
APPROACH %'s :	0.00%	71.43%	28.57%	0.00%	26.09%	73.91%	0.00%	0.00%					50.00%	0.00%	50.00%	0.00%	
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	4	1	0	2	2	0	0	0	0	0	0	1	0	2	0	12
PEAK HR FACTOR :	0.00	0.333	0.250	0.000	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.500	0.000	0.429
		0.417				0.500								0.375			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach
Control: 1-Way Stop (EB)

Project ID: 19-03588-002
Date: 9/12/2019

Bikes

NS/EW Streets:	Bryan Rd				Bryan Rd				NW 1st St				NW 1st St				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2
8:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	3	0	0	1	2	0	0	0	0	0	0	1	0	2	0	9
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	33.33%	66.67%	0.00%	0.00%					33.33%	0.00%	66.67%	0.00%	
PEAK HR :	07:30 AM - 08:30 AM																TOTAL
PEAK HR VOL :	0	2	0	0	0	0	0	0	0	0	0	0	1	0	2	0	5
PEAK HR FACTOR :	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.625
	0.500												0.375				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	3	0	0	4	2	0	0	0	0	0	0	0	0	0	0	9
APPROACH %'s :	0.00%	100.00%	0.00%	0.00%	66.67%	33.33%	0.00%	0.00%									
PEAK HR :	05:00 PM - 06:00 PM																TOTAL
PEAK HR VOL :	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	3
PEAK HR FACTOR :	0.00	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250
					0.250												

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & NW 1st St
City: Dania Beach

Project ID: 19-03588-002
Date: 9/12/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Bryan Rd		Bryan Rd		NW 1st St		NW 1st St		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	1	0	0	0	1
7:45 AM	0	0	0	1	0	2	0	0	3
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	1	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	1	0	1	1	2	0	0	5
APPROACH %'s :	0.00%	100.00%	0.00%	100.00%	33.33%	66.67%			
PEAK HR :	**07:30 AM - 08:30 AM**								TOTAL
PEAK HR VOL :	0	0	0	1	1	2	0	0	4
PEAK HR FACTOR :				0.250	0.250	0.250			0.333
			0.250		0.375				

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	2	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	1	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	2	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	0	0	0	2	2	0	0	5
APPROACH %'s :	100.00%	0.00%			50.00%	50.00%			
PEAK HR :	**05:00 PM - 06:00 PM**								TOTAL
PEAK HR VOL :	1	0	0	0	2	0	0	0	3
PEAK HR FACTOR :	0.250				0.250				0.375
		0.250			0.250				

Prepared by National Data & Surveying Services

Bryan Rd & NW 1st St

Peak Hour Turning Movement Count

ID: 19-03588-002
City: Dania Beach

Day: Thursday
Date: 09/12/2019

PEAK HOURS		COUNT PERIODS
07:30 AM - 08:30 AM		07:00 AM - 09:00 AM
NONE		NONE
05:00 PM - 06:00 PM		04:00 PM - 06:00 PM

Bryan Rd — SOUTHBOUND

AM	0	165	46	0	192	AM
NOON	0	0	0	0	0	NOON
PM	0	396	74	0	163	PM

NW 1st St — EASTBOUND

AM	NOON	PM
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
AM	NOON	PM

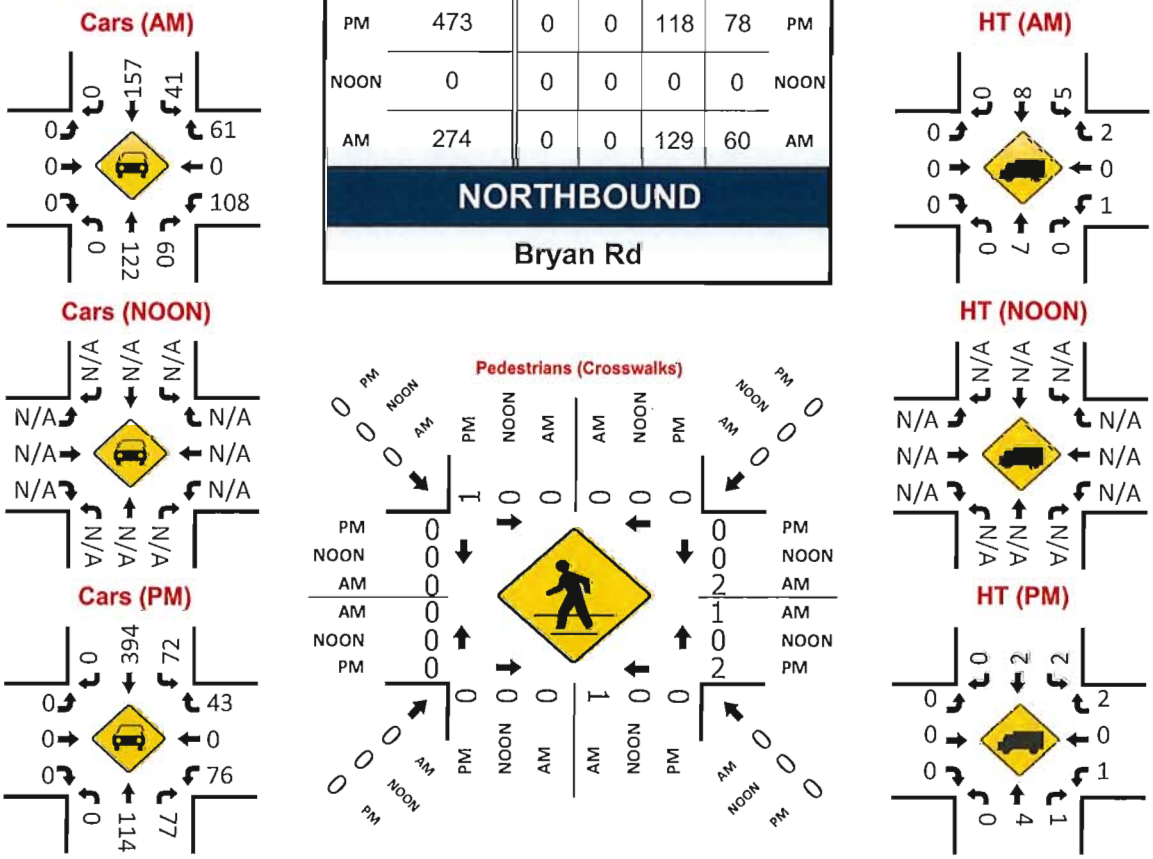
NW 1st St — WESTBOUND

PM	NOON	AM
45	0	63
0	0	0
77	0	109
0	0	0
152	0	106
PM	NOON	AM

Bryan Rd — NORTHBOUND

PM	473	0	0	118	78	PM
NOON	0	0	0	0	0	NOON
AM	274	0	0	129	60	AM

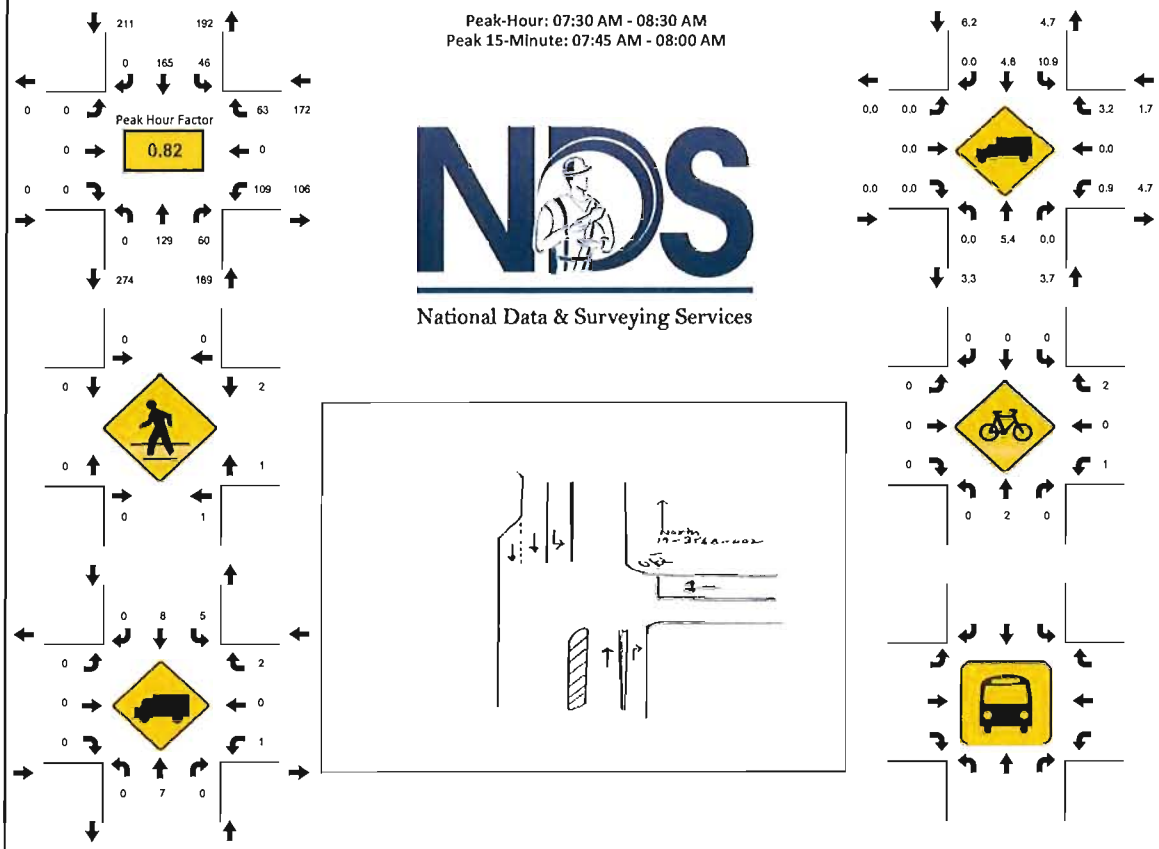
CONTROL			
1-Way Stop (EB)			
TEV	572	0	788
	AM	NOON	PM
PHF	0.82		0.93



LOCATION: Bryan Rd & NW 1st St
CITY/STATE: Dania Beach, FL

PROJECT ID: 19-03588-002
DATE: 09/12/2019

Peak-Hour: 07:30 AM - 08:30 AM
Peak 15-Minute: 07:45 AM - 08:00 AM

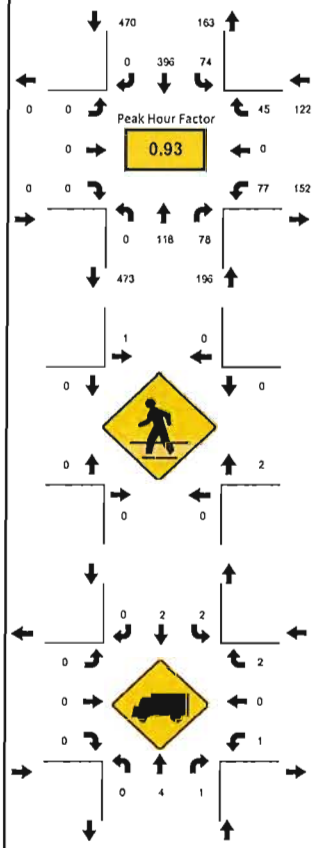


15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					NW 1st St Eastbound					NW 1st St Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
07:00 AM	0	31	5	0		12	22	0	0		0	0	0	0		27	0	12	0		109	547
07:15 AM	0	20	14	0		21	29	0	0		0	0	0	0		22	0	22	0		128	565
07:30 AM	0	22	14	0		16	30	0	0		0	0	0	0		35	0	18	0		135	572
07:45 AM	0	42	15	0		17	55	0	0		0	0	0	0		33	0	13	0		175	557
08:00 AM	0	34	11	0		4	44	0	0		0	0	0	0		18	0	16	0		127	518
08:15 AM	0	31	20	0		9	36	0	0		0	0	0	0		23	0	16	0		135	391
08:30 AM	0	30	6	0		14	47	0	0		0	0	0	0		11	0	12	0		120	256
08:45 AM	0	25	11	0		9	53	0	0		0	0	0	0		22	0	16	0		136	136
Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total	
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
All Vehicles	0	168	80	0		68	220	0	0		0	0	0	0		140	0	72	0		748	
Heavy Trucks	0	12	0			8	12	0			0	0	0			4	0	4			40	
Pedestrians		4					0					0					6				12	
Bicycles	0	4	0			0	0	0			0	0	0			4	0	8			16	
Railroad																						
Stopped Buses																						

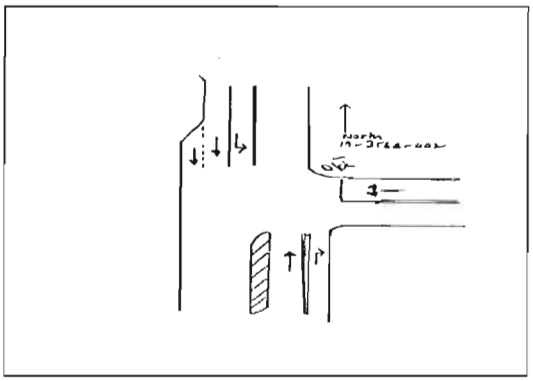
LOCATION: Bryan Rd & NW 1st St
CITY/STATE: Dania Beach, FL

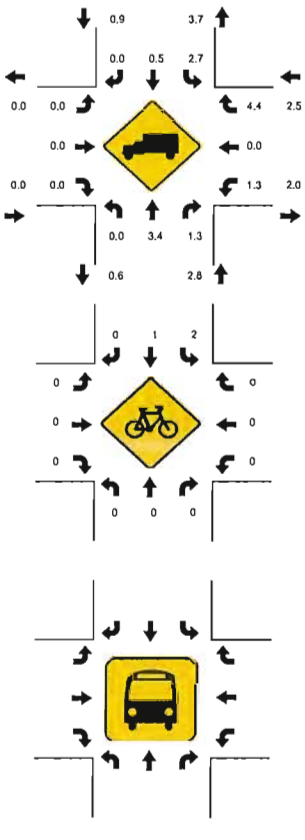
PROJECT ID: 19-03588-002
DATE: 09/12/2019

Peak-Hour: 05:00 PM - 06:00 PM
Peak 15-Minute: 05:15 PM - 05:30 PM



National Data & Surveying Services





15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					NW 1st St Eastbound					NW 1st St Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	0	22	14	0		18	64	0	0		0	0	0	0		21	0	13	0		152	658
04:15 PM	0	19	18	0		20	69	0	0		0	0	0	0		28	0	19	0		173	713
04:30 PM	0	28	13	0		19	68	0	0		0	0	0	0		27	0	16	0		171	752
04:45 PM	0	22	13	0		12	88	0	0		0	0	0	0		19	0	8	0		162	772
05:00 PM	0	31	24	0		17	102	0	0		0	0	0	0		19	0	14	0		207	788
05:15 PM	0	33	19	0		15	111	0	0		0	0	0	0		22	0	12	0		212	581
05:30 PM	0	28	19	0		23	96	0	0		0	0	0	0		13	0	12	0		191	369
05:45 PM	0	26	16	0		19	87	0	0		0	0	0	0		23	0	7	0		178	178
Peak 15-Min Flowrates	*Northbound*					*Southbound*					*Eastbound*					*Westbound*					Total	
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
All Vehicles	0	132	96	0		92	444	0	0		0	0	0	0		92	0	56	0		912	
Heavy Trucks	0	12	4			4	4	0			0	0	0			4	0	4			32	
Pedestrians		0					4					0					8				12	
Bicycles	0	0	0			8	4	0			0	0	0			0	0	0			12	
Railroad																						
Stopped Buses																						

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Dania Beach
Control: 1-Way Stop (NB)

Project ID: 19-03588-003
Date: 9/12/2019

Total

NS/EW Streets:	Bryan Rd				Bryan Rd				Old Griffin Rd				Old Griffin Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	28	0	3	0	0	0	0	0	0	52	57	0	6	27	0	0	173
7:15 AM	27	0	2	0	0	0	0	0	0	37	47	0	2	34	0	0	149
7:30 AM	29	0	2	0	0	0	0	0	0	50	48	0	7	42	0	0	178
7:45 AM	24	0	12	0	0	0	0	0	0	66	78	0	8	59	0	0	247
8:00 AM	29	0	6	0	0	0	0	0	0	53	38	0	12	53	0	0	191
8:15 AM	22	0	11	0	0	0	0	0	0	36	39	0	12	44	0	0	164
8:30 AM	20	0	8	0	0	0	0	0	0	56	64	0	7	36	0	0	191
8:45 AM	30	0	14	0	0	0	0	0	0	44	51	0	9	46	0	0	194
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	209	0	58	0	0	0	0	0	0	394	422	0	63	341	0	0	1487
APPROACH %'s :	78.28%	0.00%	21.72%	0.00%					0.00%	48.28%	51.72%	0.00%	15.59%	84.41%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	95	0	37	0	0	0	0	0	0	211	219	0	39	192	0	0	793
PEAK HR FACTOR :	0.819	0.000	0.771	0.000	0.000	0.000	0.000	0.000	0.000	0.799	0.702	0.000	0.813	0.814	0.000	0.000	0.803
	0.917								0.747				0.862				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	34	0	7	0	0	0	0	0	0	70	61	0	6	25	0	0	203
4:15 PM	39	0	11	0	0	0	0	0	0	95	66	0	6	32	0	0	249
4:30 PM	51	0	7	0	0	0	0	0	0	56	58	0	15	63	0	0	250
4:45 PM	34	0	5	0	0	0	0	0	0	69	61	0	13	54	0	0	236
5:00 PM	41	0	10	0	0	0	0	0	0	82	75	0	14	61	0	0	283
5:15 PM	40	0	7	0	0	0	0	0	0	70	97	0	17	50	0	0	281
5:30 PM	37	0	10	0	0	0	0	0	0	86	97	1	14	52	0	0	297
5:45 PM	24	0	11	0	0	0	0	0	0	63	88	0	6	43	0	0	235
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	300	0	68	0	0	0	0	0	0	591	603	1	91	380	0	0	2034
APPROACH %'s :	81.52%	0.00%	18.48%	0.00%					0.00%	49.46%	50.46%	0.08%	19.32%	80.68%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	152	0	32	0	0	0	0	0	0	307	330	1	58	217	0	0	1097
PEAK HR FACTOR :	0.927	0.000	0.800	0.000	0.000	0.000	0.000	0.000	0.000	0.892	0.851	0.250	0.853	0.889	0.000	0.000	0.923
	0.902								0.867				0.917				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Danla Beach
Control: 1-Way Stop (NB)

Project ID: 19-03588-003
Date: 9/12/2019

Cars

NS/EW Streets:	Bryan Rd				Bryan Rd				Old Griffin Rd				Old Griffin Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	26	0	1	0	0	0	0	0	0	50	53	0	6	26	0	0	162
7:15 AM	22	0	2	0	0	0	0	0	0	35	44	0	2	33	0	0	138
7:30 AM	27	0	2	0	0	0	0	0	0	50	45	0	7	41	0	0	172
7:45 AM	23	0	12	0	0	0	0	0	0	63	73	0	8	57	0	0	236
8:00 AM	28	0	6	0	0	0	0	0	0	53	36	0	11	53	0	0	187
8:15 AM	21	0	8	0	0	0	0	0	0	36	33	0	12	43	0	0	153
8:30 AM	18	0	7	0	0	0	0	0	0	55	58	0	7	36	0	0	181
8:45 AM	28	0	14	0	0	0	0	0	0	42	50	0	9	46	0	0	189
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	193	0	52	0	0	0	0	0	0	384	392	0	62	335	0	0	1418
APPROACH %'s :	78.78%	0.00%	21.22%	0.00%					0.00%	49.48%	50.52%	0.00%	15.62%	84.38%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	90	0	33	0	0	0	0	0	0	207	200	0	38	189	0	0	757
PEAK HR FACTOR :	0.80	0.000	0.688	0.000	0.000	0.000	0.000	0.000	0.000	0.821	0.685	0.000	0.792	0.829	0.000	0.000	0.802
		0.879								0.748				0.873			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	32	0	7	0	0	0	0	0	0	69	56	0	6	24	0	0	194
4:15 PM	37	0	10	0	0	0	0	0	0	95	65	0	6	30	0	0	243
4:30 PM	44	0	7	0	0	0	0	0	0	56	54	0	14	62	0	0	237
4:45 PM	33	0	5	0	0	0	0	0	0	69	60	0	13	52	0	0	232
5:00 PM	40	0	10	0	0	0	0	0	0	81	74	0	14	60	0	0	279
5:15 PM	39	0	6	0	0	0	0	0	0	70	96	0	17	48	0	0	276
5:30 PM	35	0	10	0	0	0	0	0	0	85	95	1	14	51	0	0	291
5:45 PM	24	0	11	0	0	0	0	0	0	62	88	0	4	43	0	0	232
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	284	0	66	0	0	0	0	0	0	587	588	1	88	370	0	0	1984
APPROACH %'s :	81.14%	0.00%	18.86%	0.00%					0.00%	49.91%	50.00%	0.09%	19.21%	80.79%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	147	0	31	0	0	0	0	0	0	305	325	1	58	211	0	0	1078
PEAK HR FACTOR :	0.92	0.000	0.775	0.000	0.000	0.000	0.000	0.000	0.000	0.897	0.846	0.250	0.853	0.879	0.000	0.000	0.926
		0.890								0.872				0.909			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Dania Beach
Control: 1-Way Stop (NB)

Project ID: 19-03588-003
Date: 9/12/2019

HT

NS/EW Streets:	Bryan Rd				Bryan Rd				Old Griffin Rd				Old Griffin Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	2	0	2	0	0	0	0	0	0	2	4	0	0	1	0	0	11
7:15 AM	5	0	0	0	0	0	0	0	0	2	3	0	0	1	0	0	11
7:30 AM	2	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	6
7:45 AM	1	0	0	0	0	0	0	0	0	3	5	0	0	2	0	0	11
8:00 AM	1	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	4
8:15 AM	1	0	3	0	0	0	0	0	0	0	6	0	0	1	0	0	11
8:30 AM	2	0	1	0	0	0	0	0	0	1	6	0	0	0	0	0	10
8:45 AM	2	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	5
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	16	0	6	0	0	0	0	0	0	10	30	0	1	6	0	0	69
APPROACH %'s :	72.73%	0.00%	27.27%	0.00%					0.00%	25.00%	75.00%	0.00%	14.29%	85.71%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	5	0	4	0	0	0	0	0	0	4	19	0	1	3	0	0	36
PEAK HR FACTOR :	0.625	0.000	0.333	0.000	0.000	0.000	0.000	0.000	0.000	0.333	0.792	0.000	0.250	0.375	0.000	0.000	0.818
	0.563								0.719				0.500				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	2	0	0	0	0	0	0	0	0	1	5	0	0	1	0	0	9
4:15 PM	2	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	6
4:30 PM	7	0	0	0	0	0	0	0	0	0	4	0	1	1	0	0	13
4:45 PM	1	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	4
5:00 PM	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	4
5:15 PM	1	0	1	0	0	0	0	0	0	0	1	0	0	2	0	0	5
5:30 PM	2	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	6
5:45 PM	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	3
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	16	0	2	0	0	0	0	0	0	4	15	0	3	10	0	0	50
APPROACH %'s :	88.89%	0.00%	11.11%	0.00%					0.00%	21.05%	78.95%	0.00%	23.08%	76.92%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	5	0	1	0	0	0	0	0	0	2	5	0	0	6	0	0	19
PEAK HR FACTOR :	0.63	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.625	0.000	0.000	0.750	0.000	0.000	0.792
	0.750								0.583				0.750				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Dania Beach
Control: 1-Way Stop (NB)

Project ID: 19-03588-003
Date: 9/12/2019

Bikes

NS/EW Streets:	Bryan Rd				Bryan Rd				Old Griffin Rd				Old Griffin Rd				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	1	3	0	1	1	0	0	6
APPROACH %'s :									0.00%	25.00%	75.00%	0.00%	50.00%	50.00%	0.00%	0.00%	
PEAK HR :	07:45 AM - 08:45 AM																TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.500
										0.250				0.250			

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	3
4:15 PM	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	3	0	2	0	0	0	0	0	0	1	0	0	0	2	0	0	8
APPROACH %'s :	60.00%	0.00%	40.00%	0.00%					0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	4
PEAK HR FACTOR :	0.25	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.500
		0.500												0.500			

National Data & Surveying Services

Intersection Turning Movement Count

Location: Bryan Rd & Old Griffin Rd
City: Dania Beach

Project ID: 19-03588-003
Date: 9/12/2019

Pedestrians (Crosswalks)

NS/EW Streets:	Bryan Rd		Bryan Rd		Old Griffin Rd		Old Griffin Rd		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s :									
PEAK HR :	07:45 AM - 08:45 AM								TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0
APPROACH %'s :									
PEAK HR :	04:45 PM - 05:45 PM								TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	0	0
PEAK HR FACTOR :									

Prepared by National Data & Surveying Services

Bryan Rd & Old Griffin Rd

Peak Hour Turning Movement Count

ID: 19-03588-003
City: Dania Beach

Day: Thursday
Date: 09/12/2019

PEAK HOURS		COUNT PERIODS
07:45 AM - 08:45 AM		07:00 AM - 09:00 AM
NONE		NONE
04:45 PM - 05:45 PM		04:00 PM - 06:00 PM

Bryan Rd — SOUTHBOUND

AM	0	0	0	0	0	AM
NOON	0	0	0	0	0	NOON
PM	0	0	0	0	0	PM

Old Griffin Rd — EASTBOUND

AM	NOON	PM	
287	0	370	⇦
0	0	1	↶ 0
0	0	0	↑ 0
211	0	307	→ 0
219	0	330	↷ 0

Old Griffin Rd — WESTBOUND

PM	NOON	AM	
0	0	0	↰ 0
217	0	192	← 0
58	0	39	↶ 0
0	0	0	↷ 0
339	0	248	⇨

CONTROL

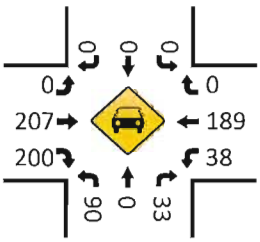
1-Way Stop (NB)

	AM	NOON	PM
TEV	793	0	1097
PHF	0.80		0.92

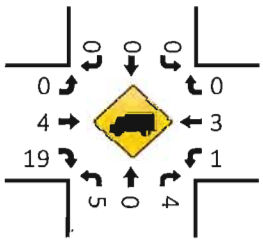
Bryan Rd — NORTHBOUND

PM	388	0	152	0	32	PM
NOON	0	0	0	0	0	NOON
AM	258	0	95	0	37	AM

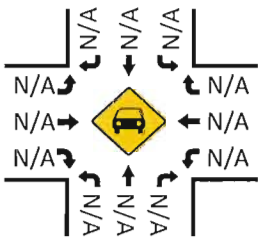
Cars (AM)



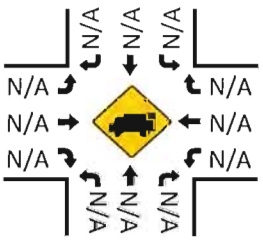
HT (AM)



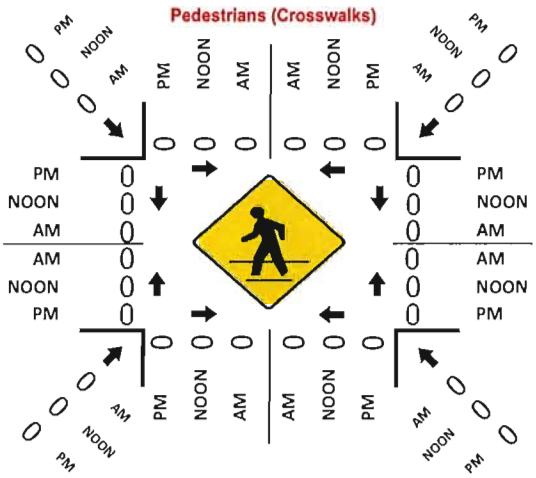
Cars (NOON)



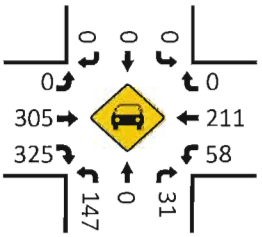
HT (NOON)



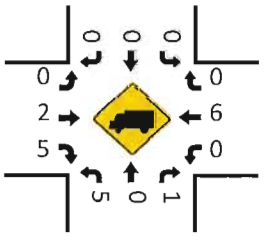
Pedestrians (Crosswalks)



Cars (PM)



HT (PM)

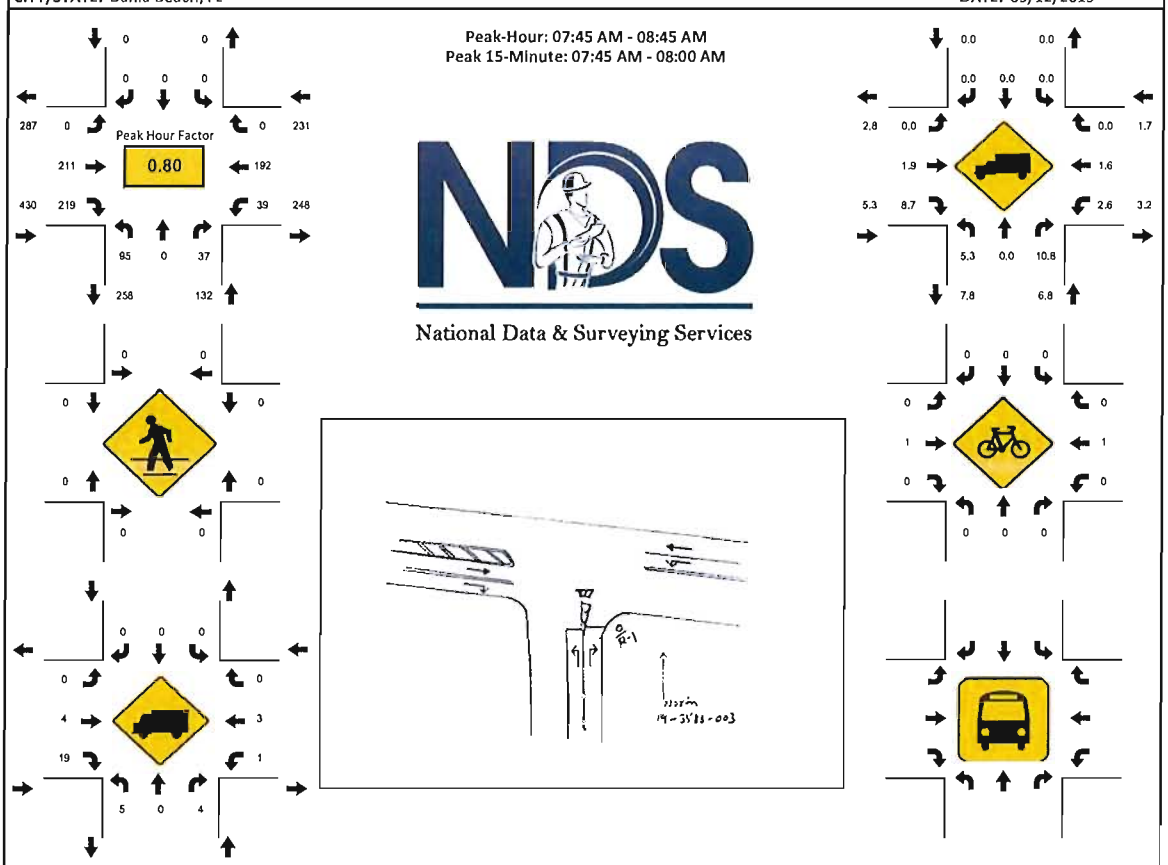


LOCATION: Bryan Rd & Old Griffin Rd
CITY/STATE: Dania Beach, FL

PROJECT ID: 19-03588-003
DATE: 09/12/2019

Peak-Hour: 07:45 AM - 08:45 AM
Peak 15-Minute: 07:45 AM - 08:00 AM

National Data & Surveying Services

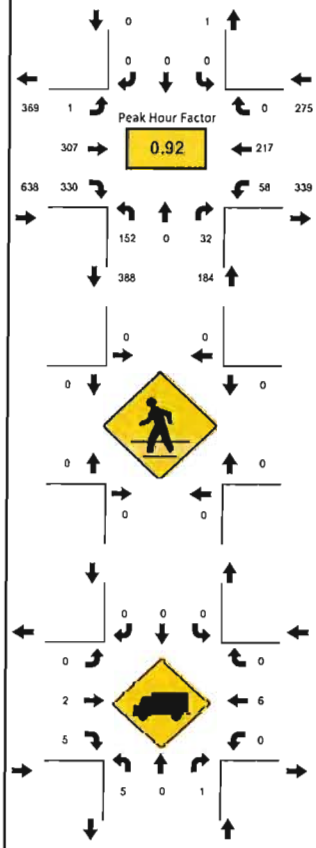


15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					Old Griffin Rd Eastbound					Old Griffin Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
07:00 AM	28	0	3	0		0	0	0	0		0	52	57	0		6	27	0	0		173	747
07:15 AM	27	0	2	0		0	0	0	0		0	37	47	0		2	34	0	0		149	765
07:30 AM	29	0	2	0		0	0	0	0		0	50	48	0		7	42	0	0		178	780
07:45 AM	24	0	12	0		0	0	0	0		0	66	78	0		8	59	0	0		247	793
08:00 AM	29	0	6	0		0	0	0	0		0	53	38	0		12	53	0	0		191	740
08:15 AM	22	0	11	0		0	0	0	0		0	36	39	0		12	44	0	0		164	549
08:30 AM	20	0	8	0		0	0	0	0		0	56	64	0		7	36	0	0		191	385
08:45 AM	30	0	14	0		0	0	0	0		0	44	51	0		9	46	0	0		194	194
Peak 15-Min Flowrates	**Northbound**					**Southbound**					**Eastbound**					**Westbound**					**Total**	
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
All Vehicles	116	0	48	0		0	0	0	0		0	264	312	0		48	236	0	0		1024	
Heavy Trucks	8	0	12			0	0	0			0	12	24			4	8	0			68	
Pedestrians		0					0					0					0				0	
Bicycles	0	0	0			0	0	0			0	4	0			0	4	0			8	
Railroad																						
Stopped Buses																						

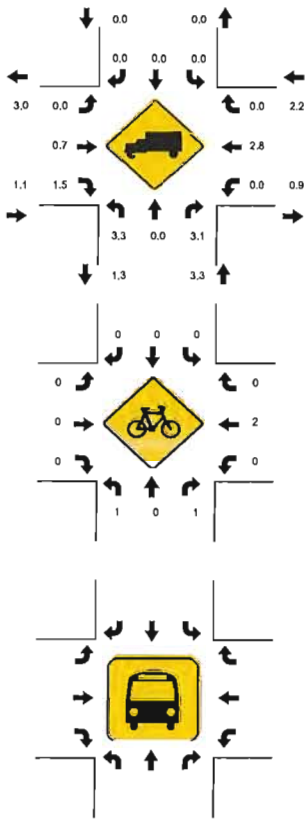
LOCATION: Bryan Rd & Old Griffin Rd
CITY/STATE: Dania Beach, FL

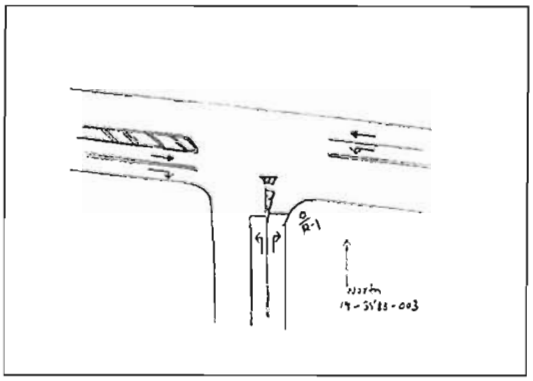
PROJECT ID: 19-03588-003
DATE: 09/12/2019

Peak-Hour: 04:45 PM - 05:45 PM
Peak 15-Minute: 05:30 PM - 05:45 PM



National Data & Surveying Services





15-Min Count Period Beginning At	Bryan Rd Northbound					Bryan Rd Southbound					Old Griffin Rd Eastbound					Old Griffin Rd Westbound					Total	Hourly Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*		
04:00 PM	34	0	7	0		0	0	0	0		0	70	61	0		6	25	0	0		203	938
04:15 PM	39	0	11	0		0	0	0	0		0	95	66	0		6	32	0	0		249	1018
04:30 PM	51	0	7	0		0	0	0	0		0	56	58	0		15	63	0	0		250	1050
04:45 PM	34	0	5	0		0	0	0	0		0	69	61	0		13	54	0	0		236	1097
05:00 PM	41	0	10	0		0	0	0	0		0	82	75	0		14	61	0	0		283	1096
05:15 PM	40	0	7	0		0	0	0	0		0	70	97	0		17	50	0	0		281	813
05:30 PM	37	0	10	0		0	0	0	0		0	86	97	1		14	52	0	0		297	532
05:45 PM	24	0	11	0		0	0	0	0		0	63	88	0		6	43	0	0		235	235

Peak 15-Min Flowrates	Northbound					Southbound					Eastbound					Westbound					Total
	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	Left	Thru	Rgt	U	R*	
All Vehicles	164	0	40	0		0	0	0	0		0	344	388	4		68	244	0	0		1252
Heavy Trucks	8	0	4			0	0	0			0	4	8			0	8	0			32
Pedestrians		0					0					0					0				0
Bicycles	4	0	4			0	0	0			0	0	0			0	4	0			12
Railroad																					
Stopped Buses																					

Kimley»Horn

APPENDIX C: INTERNAL CAPTURE MATRICES AND PASS-BY CAPTURE DATA

Internal Capture Reduction Calculations

Methodology for A.M. Peak Hour and P.M. Peak Hour
based on the *Trip Generation Handbook* , 3rd Edition, published by the Institute of Transportation Engineers

Methodology for Daily
based on the average of the Unconstrained Rates for the A.M. Peak Hour and P.M. Peak Hour

SUMMARY

INPUT

GROSS TRIP GENERATION

Land Use	Daily		A.M. Peak Hour		P.M. Peak Hour	
	Enter	Exit	Enter	Exit	Enter	Exit
Office	78	750	10	9	12	6
Retail	378	378	12	7	36	40
Restaurant	1,048	1,048	9	9	131	64
Cinema/Entertainment						
Residential	1,603	1,603	54	172	163	104
Hotel						
	3,107	3,779	85	197	342	214

OUTPUT

INTERNAL TRIPS

Land Use	Daily		A.M. Peak Hour		P.M. Peak Hour	
	Enter	Exit	Enter	Exit	Enter	Exit
Office	54	218	1	5	7	1
Retail	236	169	6	2	23	23
Restaurant	388	241	5	2	30	32
Cinema/Entertainment	0	0	0	0	0	0
Residential	202	252	1	4	22	26
Hotel	0	0	0	0	0	0
	880	880	13	13	82	82
% Reduction	25.6%		9.2%		29.5%	

OUTPUT

EXTERNAL TRIPS

Land Use	Daily		A.M. Peak Hour		P.M. Peak Hour	
	Enter	Exit	Enter	Exit	Enter	Exit
Office	24	532	9	4	5	5
Retail	142	209	6	5	13	17
Restaurant	660	807	4	7	101	32
Cinema/Entertainment	0	0	0	0	0	0
Residential	1,401	1,351	53	168	141	78
Hotel	0	0	0	0	0	0
	2,227	2,899	72	184	260	132

Table E.28 Pass-By and Non-Pass-By Trips Saturday, Mid-Day Peak Period Land Use Code 912—Drive-in Bank

SIZE (1,000 SQ. FT. GFA)	LOCATION	SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
						PRIMARY	DIVERTED	TOTAL		
3.8	Colonial Park, PA	March 2005	63	11:15 a.m.–12:15 p.m.	33	—	—	67	—	McMahon Associates, Inc.
3.8	Camp Hill Mall, PA	March 2005	103	11:00 a.m.–12:00 p.m.	77	—	—	23	—	McMahon Associates, Inc.
3.8	Exeter Twp, PA	March 2005	34	10:30–11:30 a.m.	37	—	—	63	—	McMahon Associates, Inc.
3.8	York, PA	March 2005	53	10:15–11:15 a.m.	33	—	—	67	—	McMahon Associates, Inc.
3.8	York, PA	March 2005	25	10:45–11:45 a.m.	12	—	—	88	—	McMahon Associates, Inc.

Average Pass-By Trip Percentage: 38
"—" means no data were provided

Table E.29 Pass-By and Non-Pass-By Trips Weekday, PM Peak Period Land Use Code 931—Quality Restaurant

SEATS	SIZE (1,000 SQ. FT. GFA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
240	12	Louisville area, KY	July 1993	38	4:00–6:00 p.m.	26	36	38	74	4,145	Barton-Aschman Assoc.
—	8	Orlando, FL	1992	168	4:00–8:00 p.m.	45	—	—	55	—	TPD Inc.
—	8.8	Orlando, FL	1992	84	2:00–6:00 p.m.	44	40	18	56	—	TPD Inc.
—	6.5	Orlando, FL	1995	173	2:00–6:00 p.m.	62	—	—	38	—	TPD Inc.

Average Pass-By Trip Percentage: 44
"—" means no data were provided

Table E.30 Pass-By and Non-Pass-By Trips Weekday, PM Peak Period Land Use Code 932—High-Turnover (Sit-Down) Restaurant

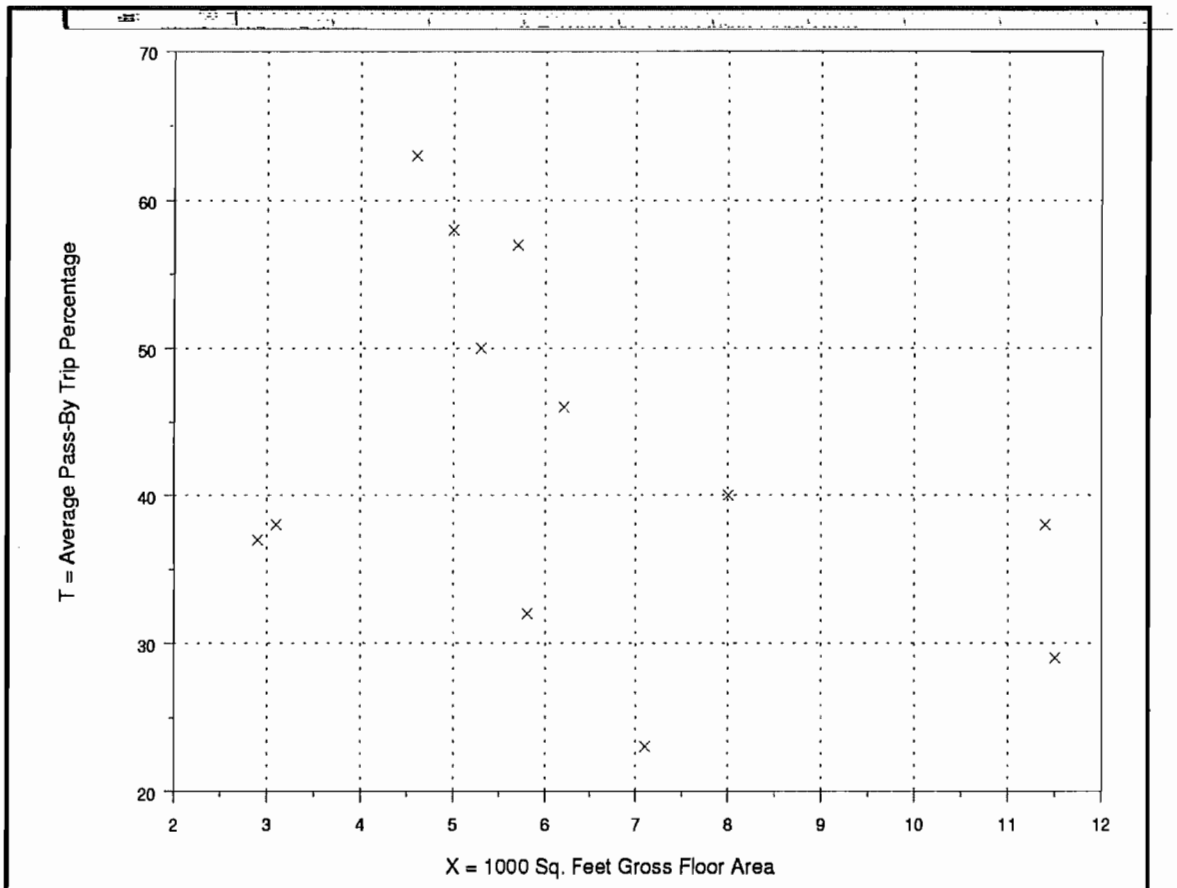
SEATS	SIZE (1,000 SQ. FT. GFA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
—	5.8	Orlando, FL	1992	150	2:00–6:00 p.m.	32	—	—	68	—	TPD Inc.
—	5	Casselberry, FL	1992	65	2:00–6:00 p.m.	58	—	—	42	—	TPD Inc.
168	5.3	Louisville area, KY	1993	24	4:00–6:00 p.m.	50	37	13	50	1,615	Barton-Aschman Assoc.
169	2.9	Louisville area, KY	1993	41	4:00–6:00 p.m.	37	27	36	63	3,935	Barton-Aschman Assoc.
150	3.1	Louisville area, KY	1993	21	4:00–6:00 p.m.	38	29	33	62	2,580	Barton-Aschman Assoc.
250	7.1	New Albany, IN	1993	—	4:00–6:00 p.m.	23	23	54	77	1,565	Barton-Aschman Assoc.
—	8	Kissimmee, FL	1995	664	2:00–6:00 p.m.	40	39	21	60	—	TPD Inc.
—	11	Orlando, FL	1996	267	2:00–6:00 p.m.	38	43	19	62	—	TPD Inc.
—	12	Orlando, FL	1996	317	2:00–6:00 p.m.	29	51	20	71	—	TPD Inc.
—	4.6	Orlando, FL	1992	276	2:00–6:00 p.m.	63	—	—	37	—	TPD Inc.
—	5.7	Orlando, FL	1994	308	2:00–6:00 p.m.	57	—	—	43	—	TPD Inc.
—	6.2	Orlando, FL	1995	521	2:00–6:00 p.m.	46	43	11	54	—	TPD Inc.

Average Pass-By Trip Percentage: 43
"—" means no data were provided

Figure E.16 High-Turnover (Sit-Down) Restaurant (932)

Average Pass-ByTrip Percentage vs:	**1,000 Sq. Ft. Gross Floor Area**
On a:	**Weekday, PM Peak Period**
Number of Studies:	12
Average 1,000 Sq. Ft. GFA:	6.4

Data Plot



Fitted Curve Equation: Not given R^2 = ****

Table E.31 Pass-By and Non-Pass-By Trips Weekday, AM Peak Period Land Use Code 934—Fast-Food Restaurant with Drive-Through Window

SEATS	SIZE (1,000 SQ. FT. GFA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
—	<5	Chicago suburbs, IL	1987	84	7:00–9:00 a.m.	44	—	—	56	—	Kenig, O'Hara, Humes, Flock
88	1.4	Louisville area, KY	1993	—	7:00–9:00 a.m.	62	22	16	38	1,407	Barton-Aschman Assoc.
100	3.6	Louisville, KY	1993	—	7:00–9:00 a.m.	32	47	21	68	437	Barton-Aschman Assoc.
87	4.2	New Albany, IN	1993	—	7:00–9:00 a.m.	46	23	31	54	1,049	Barton-Aschman Assoc.
150	3.0	Louisville area, KY	1993	—	7:00–9:00 a.m.	43	14	43	57	2,903	Barton-Aschman Assoc.
—	3.3	varies	1996	—	6:00–9:00 a.m.	68	—	—	32	—	Oracle Engineering

Average Pass-By Trip Percentage: 49
"—" means no data were provided

Table E.32 Pass-By and Non-Pass-By Trips Weekday, PM Peak Period
Land Use Code 934—Fast-Food Restaurant with Drive-Through Window

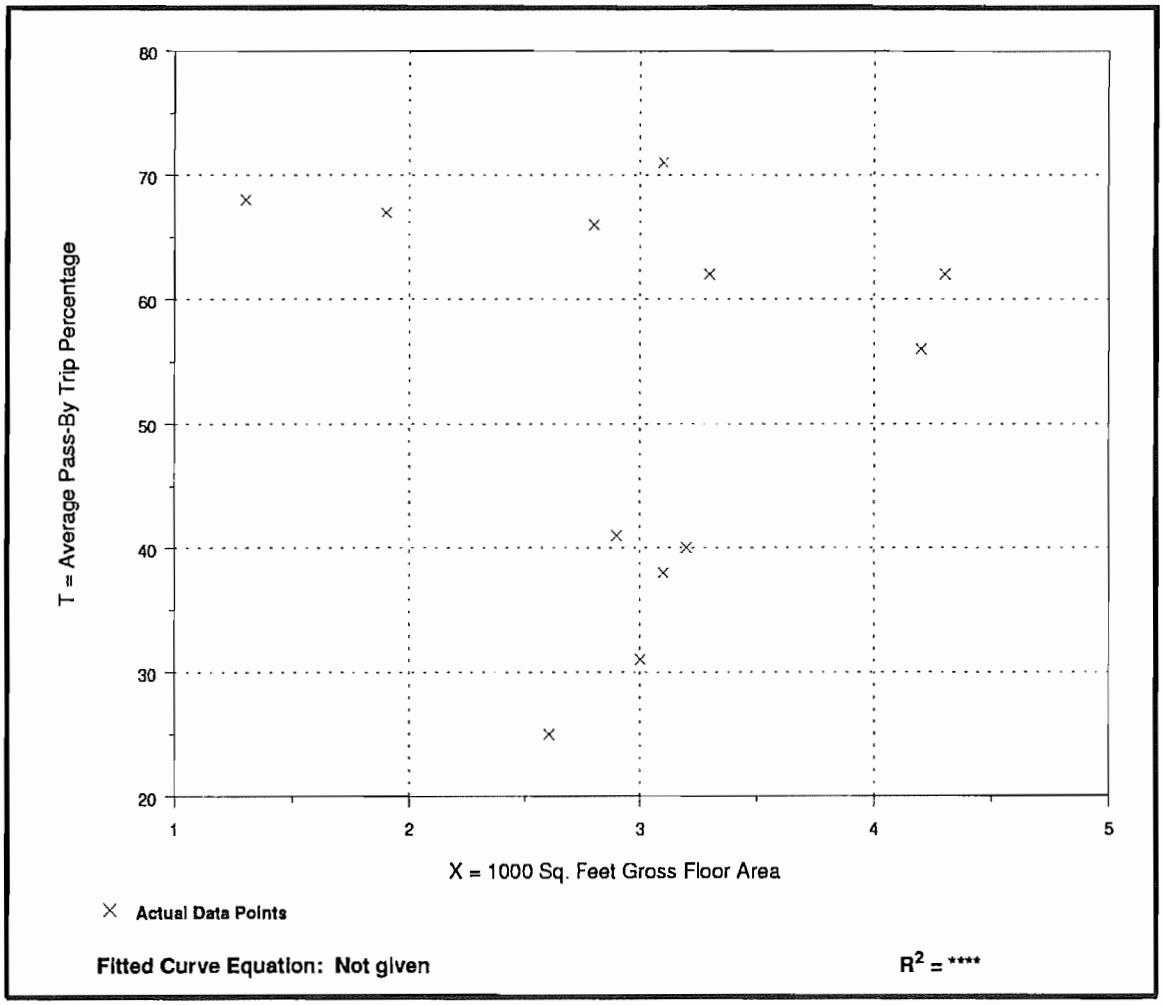
SEATS	SIZE (1,000 SQ. FT. GFA)	LOCATION	WEEKDAY SURVEY DATE	NO. OF INTERVIEWS	TIME PERIOD	PASS-BY TRIP (%)	NON-PASS-BY TRIPS (%)			ADJ. STREET PEAK HOUR VOLUME	SOURCE
							PRIMARY	DIVERTED	TOTAL		
—	~2.6	Minn-St. Paul, MN	1987	50	3:00–7:00 p.m.	25	27	48	75	—	—
—	<5.0	Chicago suburbs, IL	1987	80	3:00–6:00 p.m.	38	—	—	62	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	100	3:00–6:00 p.m.	55	—	—	45	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	159	3:00–6:00 p.m.	56	—	—	44	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	225	3:00–6:00 p.m.	48	—	—	52	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	88	3:00–6:00 p.m.	35	—	—	65	—	Kenig, O'Hara, Humes, Flock
—	<5.0	Chicago suburbs, IL	1987	84	3:00–6:00 p.m.	44	—	—	56	—	Kenig, O'Hara, Humes, Flock
88	1.3	Louisville area, KY	1993	—	4:00–6:00 p.m.	68	22	10	32	2,055	Barton-Aschman Assoc.
120	1.9	Louisville area, KY	1993	33	4:00–6:00 p.m.	67	24	9	33	2,447	Barton-Aschman Assoc.
87	4.2	New Albany, IN	1993	—	4:00–6:00 p.m.	56	25	19	44	1,632	Barton-Aschman Assoc.
150	3.0	Louisville area, KY	1993	—	4:00–6:00 p.m.	31	31	38	69	4,250	Barton-Aschman Assoc.
—	3.1	Kissimmee, FL	1995	28	2:00–6:00 p.m.	71	—	—	29	—	TPD Inc.
—	3.1	Apopka, FL	1996	29	2:00–6:00 p.m.	38	—	—	62	—	TPD Inc.
—	2.8	Winter Springs, FL	1995	47	2:00–6:00 p.m.	66	—	—	34	—	TPD Inc.
—	4.3	Longwood, FL	1994	304	2:00–6:00 p.m.	62	—	—	38	—	TPD Inc.
—	3.2	Altamonte Springs, FL	1996	202	2:00–6:00 p.m.	40	39	21	60	—	TPD Inc.
—	2.9	Winter Park, FL	1996	271	2:00–6:00 p.m.	41	41	18	59	—	TPD Inc.
—	3.3*	several	1996	varies	4:00–6:00 p.m.	62	—	—	38	—	Oracle Engineering

*Average of several combined studies.
Average Pass-By Trip Percentage: 50
"—" means no data were provided

Figure E.17 Fast-Food Restaurant with Drive-Through Window (934)

Average Pass-By Trip Percentage vs:	**1,000 Sq. Ft. Gross Floor Area**
On a:	**Weekday, PM Peak Period**
Number of Studies:	12
Average 1,000 Sq. Ft. GFA:	3.0

Data Plot



Kimley»Horn

APPENDIX D: VOLUME DEVELOPMENT WORKSHEETS AND SIGNAL TIMING

VOLUME DEVELOPMENT SHEET
DANIA MARINA 70 WAVE & 90 WAVE
BRYAN ROAD & STIRLING ROAD
EXISTING GEOMETRY

Growth Rate =	1.60%	
Peak Season =	1.08	1.08
Buildout Year =	2024	2024
Years =	5	5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	0	0	0	74	0	118	131	951	0	0	864	51
Peak Season Volume	0	0	0	80	0	127	141	1,027	0	0	933	55
Traffic Volume Growth	0	0	0	7	0	10	12	85	0	0	77	5
Committed Development (150 S Bryan)	0	0	0	30	0	23	9	0	0	0	0	7
Committed Development (Dania Pointe)	0	0	0	25	0	131	210	17	0	0	39	39
Background Traffic Volumes	0	0	0	142	0	291	372	1,129	0	0	1,049	106
Project Traffic												
Inbound Traffic Assignment							46.0%					13.0%
Inbound Traffic Volumes							61					17
Outbound Traffic Assignment				13.0%		46.0%						
Outbound Traffic Volumes				30		108						
Project Traffic	0	0	0	30	0	108	61	0	0	0	0	17
Total Traffic w/o RTOR	0	0	0	172	0	399	433	1,129	0	0	1,049	123
RTOR Reduction						(60)						(60)
TOTAL TRAFFIC	0	0	0	172	0	339	433	1,129	0	0	1,049	63

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	0	0	0	152	0	225	95	954	0	0	1,350	67
Peak Season Volume	0	0	0	164	0	243	103	1,030	0	0	1,458	72
Traffic Volume Growth	0	0	0	14	0	20	9	85	0	0	120	6
Committed Development (150 S Bryan)	0	0	0	14	0	17	27	0	0	0		22
Committed Development (Dania Pointe)	0	0	0	70	0	363	220	47	0	0	41	41
Background Traffic Volumes	0	0	0	262	0	643	359	1,162	0	0	1,619	141
Project Traffic												
Inbound Traffic Assignment							46.0%					13.0%
Inbound Traffic Volumes							126					35
Outbound Traffic Assignment				13.0%		46.0%						
Outbound Traffic Volumes				18		63						
Project Traffic	0	0	0	18	0	63	126	0	0	0	0	35
Total Traffic w/o RTOR	0	0	0	280	0	706	485	1,162	0	0	1,619	176
RTOR Reduction						(60)						(60)
TOTAL TRAFFIC	0	0	0	280	0	646	485	1,162	0	0	1,619	116

VOLUME DEVELOPMENT SHEET
DANIA MARINA 70 WAVE & 90 WAVE
BRYAN ROAD & NW 1ST STREET
EXISTING GEOMETRY

Growth Rate =	1.60%	
Peak Season =	1.08	1.08
Buildout Year =	2024	2024
Years =	5	5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	0	129	60	46	165	0	0	0	0	109	0	63
Peak Season Volume	0	139	65	50	178	0	0	0	0	118	0	68
Traffic Volume Growth	0	11	5	4	15	0	0	0	0	10	0	6
Committed Development (150 S Bryan)	0	21	0	0	7	0	0	0	0		0	
Committed Development (Dania Pointe)	0	63	21	0	171	0	0	0	0	23	0	23
Background Traffic Volumes	0	234	91	54	371	0	0	0	0	151	#REF!	97
Project Traffic												
Inbound Traffic Assignment					35.0%					6.0%		
Inbound Traffic Volumes					47					8		
Outbound Traffic Assignment		35.0%	6.0%									
Outbound Traffic Volumes		82	14									
Project Traffic	0	82	14	0	47	0	0	0	0	8	0	0
Total Traffic w/o RTOR	0	316	105	54	418	0	0	0	0	159	#REF!	97
RTOR Reduction												
TOTAL TRAFFIC	0	316	105	54	418	0	0	0	0	159	#REF!	97

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	0	118	78	74	396	0	0	0	0	77	0	45
Peak Season Volume	0	127	84	80	428	0	0	0	0	83	0	49
Traffic Volume Growth	0	10	7	7	35	0	0	0	0	7	0	4
Committed Development (150 S Bryan)	0	12	0	0	19	0	0	0	0	0	0	0
Committed Development (Dania Pointe)	0	176	59	0	179	0	0	0	0	24	0	24
Background Traffic Volumes	0	325	150	87	661	0	0	0	0	114	0	77
Project Traffic												
Inbound Traffic Assignment					35.0%					6.0%		
Inbound Traffic Volumes					96					16		
Outbound Traffic Assignment		35.0%	6.0%									
Outbound Traffic Volumes		48	8									
Project Traffic	0	48	8	0	96	0	0	0	0	16	0	0
Total Traffic w/o RTOR	0	373	158	87	757	0	0	0	0	130	0	77
RTOR Reduction												
TOTAL TRAFFIC	0	373	158	87	757	0	0	0	0	130	0	77

VOLUME DEVELOPMENT SHEET
DANIA MARINA 70 WAVE & 90 WAVE
BRYAN ROAD & OLD GRIFFIN ROAD
EXISTING GEOMETRY

Growth Rate =	1.60%	
Peak Season =	1.08	1.08
Buildout Year =	2024	2024
Years =	5	5

AM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	95	0	37	0	0	0	0	211	219	39	192	0
Peak Season Volume	103	0	40	0	0	0	0	228	237	42	207	0
Traffic Volume Growth	9	0	3	0	0	0	0	19	20	3	17	0
Committed Development (150 S Bryan)	15	0	6	0	0	0	0	0	5	2	0	0
Committed Development (Dania Pointe)	118	0	46	0	0	0	0	0	272	31	0	0
Background Traffic Volumes	245	0	95	0	0	0	0	247	534	78	224	0
Project Traffic												
Inbound Traffic Assignment									25.0%	10.0%		
Inbound Traffic Volumes									33	13		
Outbound Traffic Assignment	25.0%		10.0%									
Outbound Traffic Volumes	59		23									
Project Traffic	59	0	23	0	0	0	0	0	33	13	0	0
Total Traffic w/o RTOR	304	0	118	0	0	0	0	247	567	91	224	0
RTOR Reduction			(60)						(60)			(60)
TOTAL TRAFFIC	304	0	58	0	0	0	0	247	507	91	224	0

PM Peak Hour

	Northbound			Southbound			Eastbound			Westbound		
	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT	LT	Thru	RT
Existing Volume on 9/12/2019	152	0	32	0	0	0	0	307	330	58	217	0
Peak Season Volume	164	0	35	0	0	0	0	332	356	63	234	0
Traffic Volume Growth	14	0	3	0	0	0	0	27	29	5	19	0
Committed Development (150 S Bryan)	8	0	4	0	0	0	0	0	14	5	0	0
Committed Development (Dania Pointe)	328	0	129	0	0	0	0	0	285	33	0	0
Background Traffic Volumes	514	0	171	0	0	0	0	359	684	106	253	0
Project Traffic												
Inbound Traffic Assignment									25.0%	10.0%		
Inbound Traffic Volumes									68	27		
Outbound Traffic Assignment	25.0%		10.0%									
Outbound Traffic Volumes	35		14									
Project Traffic	35	0	14	0	0	0	0	0	68	27	0	0
Total Traffic w/o RTOR	549	0	185	0	0	0	0	359	752	133	253	0
RTOR Reduction			(60)						(60)			(60)
TOTAL TRAFFIC	549	0	125	0	0	0	0	359	692	133	253	0

2019 PEAK SEASON FACTOR CATEGORY REPORT - REPORT TYPE: ALL
CATEGORY: 9301 CEN.-W OF US1 TO SR7

MOCF: 0.97

WEEK	DATES	SF	PSCF
1	01/01/2019 - 01/05/2019	1.00	1.03
2	01/06/2019 - 01/12/2019	1.00	1.03
3	01/13/2019 - 01/19/2019	1.00	1.03
4	01/20/2019 - 01/26/2019	0.99	1.02
* 5	01/27/2019 - 02/02/2019	0.98	1.01
* 6	02/03/2019 - 02/09/2019	0.97	1.00
* 7	02/10/2019 - 02/16/2019	0.96	0.99
* 8	02/17/2019 - 02/23/2019	0.96	0.99
* 9	02/24/2019 - 03/02/2019	0.96	0.99
*10	03/03/2019 - 03/09/2019	0.96	0.99
*11	03/10/2019 - 03/16/2019	0.96	0.99
*12	03/17/2019 - 03/23/2019	0.96	0.99
*13	03/24/2019 - 03/30/2019	0.96	0.99
*14	03/31/2019 - 04/06/2019	0.97	1.00
*15	04/07/2019 - 04/13/2019	0.97	1.00
*16	04/14/2019 - 04/20/2019	0.97	1.00
*17	04/21/2019 - 04/27/2019	0.98	1.01
18	04/28/2019 - 05/04/2019	0.99	1.02
19	05/05/2019 - 05/11/2019	0.99	1.02
20	05/12/2019 - 05/18/2019	1.00	1.03
21	05/19/2019 - 05/25/2019	1.01	1.04
22	05/26/2019 - 06/01/2019	1.02	1.05
23	06/02/2019 - 06/08/2019	1.02	1.05
24	06/09/2019 - 06/15/2019	1.03	1.06
25	06/16/2019 - 06/22/2019	1.04	1.07
26	06/23/2019 - 06/29/2019	1.04	1.07
27	06/30/2019 - 07/06/2019	1.05	1.08
28	07/07/2019 - 07/13/2019	1.05	1.08
29	07/14/2019 - 07/20/2019	1.06	1.09
30	07/21/2019 - 07/27/2019	1.05	1.08
31	07/28/2019 - 08/03/2019	1.04	1.07
32	08/04/2019 - 08/10/2019	1.03	1.06
33	08/11/2019 - 08/17/2019	1.03	1.06
34	08/18/2019 - 08/24/2019	1.03	1.06
35	08/25/2019 - 08/31/2019	1.04	1.07
36	09/01/2019 - 09/07/2019	1.05	1.08
37	09/08/2019 - 09/14/2019	1.05	1.08
38	09/15/2019 - 09/21/2019	1.06	1.09
39	09/22/2019 - 09/28/2019	1.05	1.08
40	09/29/2019 - 10/05/2019	1.03	1.06
41	10/06/2019 - 10/12/2019	1.02	1.05
42	10/13/2019 - 10/19/2019	1.00	1.03
43	10/20/2019 - 10/26/2019	1.00	1.03
44	10/27/2019 - 11/02/2019	1.00	1.03
45	11/03/2019 - 11/09/2019	1.00	1.03
46	11/10/2019 - 11/16/2019	1.00	1.03
47	11/17/2019 - 11/23/2019	1.00	1.03
48	11/24/2019 - 11/30/2019	1.00	1.03
49	12/01/2019 - 12/07/2019	1.00	1.03
50	12/08/2019 - 12/14/2019	1.00	1.03
51	12/15/2019 - 12/21/2019	1.00	1.03
52	12/22/2019 - 12/28/2019	1.00	1.03
53	12/29/2019 - 12/31/2019	1.00	1.03

* PEAK SEASON

BROWARD COUNTY TRAFFIC ENGINEERING

ACTUATED TRAFFIC SIGNAL TIMING SHEET

Intersection Number	3307	**Initial Operation Date**	12/14/82
Controller Type	2070 LN	**System Number**	3307
Modification Number	10	**Modification Date**	11/20/2014
Drawing/Project No	411438-1-52-01	**FPL Grid Number**	87574427507
Intersection	STIRLING ROAD (SR 848) and BRYAN ROAD		
Municipality	DANIA BEACH		

Controller Phase	1	2	3	4	5	6	7	8
Face Number	1	2	3			6		8
Direction	EBL	WB				EB		SB
Initial Green(MIN)	4	12				12		6
Vehicle Ext.(GAP)	1.5	3.0				3.0		2.0
Maximum Green I	15	50				50		25
Maximum Green II								
Yellow Clearance	5.0	5.0				5.0		4.0
All Red Clearance	2.0	2.0				2.0		2.0
Phase Recall	OFF	MIN				MIN		OFF
Detector Delay								20-RT
Walk		7						5
Pedestrian Clearance		12						16
Permissive	5-SECT							
Flash Operation		YELLOW				YELLOW		RED

Attachment

NOTES:

1. ANTI-BACKDOWN EASTBOUND: PHASES 2+6 ON--->OMIT PHASE 1.
2. MOD 10 UPDATES YELLOW CLEARANCE VALUES PER FDOT STANDARDS.

Submitted By _____ **Approved By** _____

Broward County Timing Sheet 7/2/2019 11:36:21 AM

Station : 3307 - Stirling Rd & Bryan Rd (Standard File)

Phase	1 (EL)	2 (WT)	3	4	5 (WL)	6 (ET)	7	8 (ST)	9	10	11	12	13	14	15	16
Walk		7				7		5								
Ped Clearance		12						16								
Min Green	4	12				12		6								
Gap Ext	1.5	3				3		2								
Max1	15	50				50		25								
Max2																
Yellow Clr	5	5				5		4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Red Clr	2	2				2		2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Red Revert																
Added Initial																
Max Initial																
Time Before Reduce																
Cars Before Reduce																
Time To Reduce																
Reduce By																
Min Gap																
Dynamic Max Limit																
Dynamic Max Step																
Enable	ON	ON				ON		ON								
Auto Flash Entry								ON								
Auto Flash Exit		ON				ON										
Non-Actuated 1																
Non-Actuated 2																
Lock Call									ON	ON	ON	ON	ON	ON	ON	ON
Min Recall		ON				ON										
Max Recall																
Ped Recall																
Soft Recall																
Dual Entry																
Sim Gap Enable		ON				ON			ON	ON	ON	ON	ON	ON	ON	ON
Guar Passage																
Rest In Walk		ON				ON										
Cond Service																
Add Init Calc																

Preemption

Channel	1	2	3	4	5	6
Lock Input	ON	ON	ON	ON	ON	ON
Override Auto Flash	ON	ON	ON	ON	ON	ON
Override Higher Preempt	ON	ON	ON	ON	ON	ON
Flash in Dwell						
Link to Preempt						
Delay						
Min Duration						
Min Green						
Min Walk						
Ped Clear						
Track Green						
Min Dwell						
Max Presence						
Track Veh 1						
Track Veh 2						
Track Veh 3						
Track Veh 4						
Dwell Cyc Veh 1						
Dwell Cyc Veh 2						
Dwell Cyc Veh 3						
Dwell Cyc Veh 4						
Dwell Cyc Veh 5						
Dwell Cyc Veh 6						
Dwell Cyc Veh 7						
Dwell Cyc Veh 8						
Dwell Cyc Veh 9						
Dwell Cyc Veh 10						
Dwell Cyc Veh 11						
Dwell Cyc Veh 12						
Dwell Cyc Ped1						
Dwell Cyc Ped2						
Dwell Cyc Ped3						
Dwell Cyc Ped4						
Dwell Cyc Ped5						
Dwell Cyc Ped6						
Dwell vPed7						

Preempt LP

Channel	1	2	3	4
Min				
Max				
Enable				
Lock Mode	MAX	MAX	MAX	MAX
Coord in Preempt				
No Skip				
Priority P1				
Priority P2				
Priority P3				
Priority P4				
Lock				
Headway				
Group Lock				
Queue Jump				
Free Mode				
Alt Table				

Station : 3307 - Stirling Rd & Bryan Rd (Standard File)

Coordination

Hour	Minute	Action	Pattern	Cycle	Offset	Split	Seqnc	Short	Long	Dwell	Split 1	Split 2	Split 3	Split 4	Split 5	Split 6	Split 7	Split 8	Split 9	Split 10	Split 11	Split 12	Split 13	Split 14	Split 15	Split 16
Day Plan 1											**Easy**															
		100	254																							
6		2	2	160	65	2	1	10	50		20	108				128		32								
9		3	3	160	9	3	1	10	50		25	105				130		30								
15		4	4	160	86	4	1	10	50		20	108				128		32								
20		3	3	160	9	3	1	10	50		25	105				130		30								
Day Plan 2											**Easy**															
		3	3	160	9	3	1	10	50		25	105				130		30								
1		100	254																							
6	30	3	3	160	9	3	1	10	50		25	105				130		30								
Day Plan 3											**Easy**															
		3	3	160	9	3	1	10	50		25	105				130		30								
1		100	254																							
6	30	3	3	160	9	3	1	10	50		25	105				130		30								
23		100	254																							

Broward County Timing Sheet 7/2/2019 11:36:21 AM

Station : 3307 - Stirling Rd & Bryan Rd (Standard File)

Hour	Minute	Action	Pattern	Cycle	Offset	Split	Seqnc	Short	Long	Dwell	Split 1	Split 2	Split 3	Split 4	Split 5	Split 6	Split 7	Split 8	Split 9	Split 10	Split 11	Split 12	Split 13	Split 14	Split 15	Split 16
Day Plan 4											Easy															

Scheduler

	Month												Day of Week							Day of Month									1									2									3		
Plan	J	F	M	A	M	J	J	A	S	O	N	D	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	Day Plan
1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
3	1	1	1	1	1	1	1	1	1	1	1	1	1							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
4	1													1	1	1	1	1		1																																2
5	1													1							1																																2
6					1									1																														1	1	1	1	1	1	1		2
7							1											1				1																														2
8							1							1	1	1	1	1					1																													2
9							1							1										1																													2
10									1					1						1	1	1	1	1	1	1																											2
11											1						1																								1	1	1	1	1	1	1					2
12											1							1																									1	1	1	1	1	1	1				2
13												1		1				1																											1								2
14												1		1	1	1	1	1																												1							2
15												1		1																																	1						2
16												1		1				1																																		1	2
17																																																					1
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30																																																					1
31																																																					1
32																																																					1

User Comments:

TRAFFIC ENGINEERING DIVISION
SIGNALIZED INTERSECTION

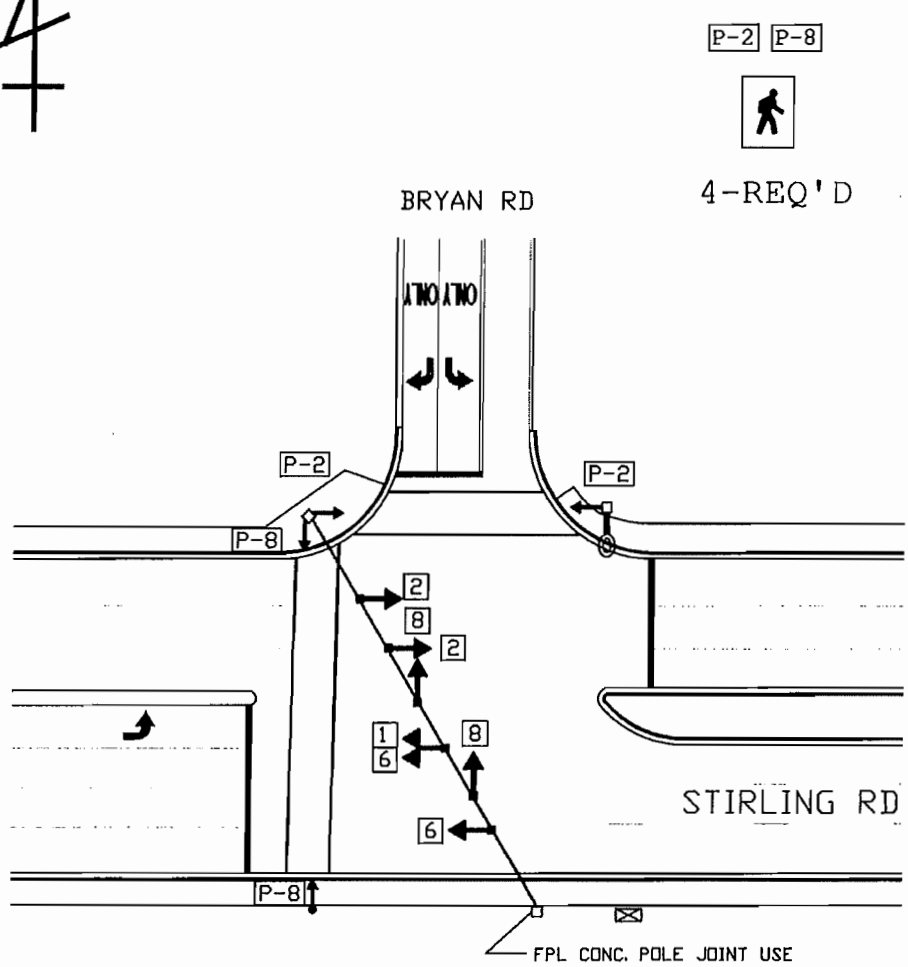
LOCATION **STIRLING ROAD & BRYAN ROAD**

ORDER NO **FDOT** ISSUE DATE ---- REV NO. **3** COMPL DATE **12/13/07**

DWG. NO. **10-01-12-01** FILE NO. **3307** CITY **DANIA** SCALE: 1" = 50'

DWN BY: LARRY

NORTH



P-2 P-8

4-REQ'D

1 6

5-SECT
1-WAY
1-REQ'D

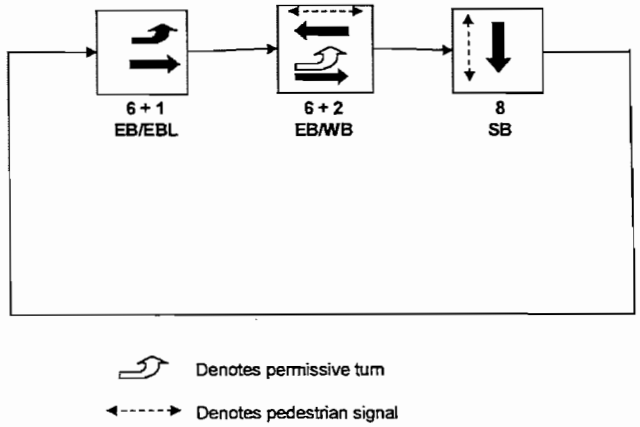
2 6 8

3-SECT
1-WAY
5-REQ'D

1. VIDEO DETECTION INSTALLED, STATE PROJ NO 4114381

Sequence of Operation for (3307) Stirling Road and Bryan Road

Dania



Kimley»Horn

APPENDIX E: SYNCHRO ANALYSIS OUTPUT

Intersection	
Int Delay, s/veh	2.7

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↱	↰	↑	↰	↱
Traffic Vol, veh/h	228	237	42	207	103	40
Future Vol, veh/h	228	237	42	207	103	40
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	125	75	-	0	150
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	248	258	46	225	112	43

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	506	0	565	248
Stage 1	-	-	-	-	248	-
Stage 2	-	-	-	-	317	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1059	-	486	791
Stage 1	-	-	-	-	793	-
Stage 2	-	-	-	-	738	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1059	-	465	791
Mov Cap-2 Maneuver	-	-	-	-	465	-
Stage 1	-	-	-	-	793	-
Stage 2	-	-	-	-	706	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.4	13.7
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	465	791	-	-	1059	-
HCM Lane V/C Ratio	0.241	0.055	-	-	0.043	-
HCM Control Delay (s)	15.2	9.8	-	-	8.6	-
HCM Lane LOS	C	A	-	-	A	-
HCM 95th %tile Q(veh)	0.9	0.2	-	-	0.1	-

Intersection	
Int Delay, s/veh	4.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	118	68	139	65	50	178
Future Vol, veh/h	118	68	139	65	50	178
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	128	74	151	71	54	193

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	452	151	0	0	222	0
Stage 1	151	-	-	-	-	-
Stage 2	301	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	565	895	-	-	1347	-
Stage 1	877	-	-	-	-	-
Stage 2	751	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	542	895	-	-	1347	-
Mov Cap-2 Maneuver	601	-	-	-	-	-
Stage 1	877	-	-	-	-	-
Stage 2	721	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.5	0	1.7
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	683	1347	-
HCM Lane V/C Ratio	-	-	0.296	0.04	-
HCM Control Delay (s)	-	-	12.5	7.8	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	1.2	0.1	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	141	1027	933	80	127
Future Volume (vph)	141	1027	933	80	127
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	137.5	137.5	123.9	9.5	23.1
Actuated g/C Ratio	0.86	0.86	0.77	0.06	0.14
v/c Ratio	0.18	0.26	0.27	0.43	0.41
Control Delay	2.3	2.3	5.4	78.5	13.9
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	2.3	2.3	5.4	78.5	13.9
LOS	A	A	A	E	B
Approach Delay		2.3	5.4	38.8	
Approach LOS		A	A	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 65 (41%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.43	
Intersection Signal Delay: 6.8	Intersection LOS: A
Intersection Capacity Utilization 44.9%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	153	1116	1074	87	138
v/c Ratio	0.18	0.26	0.27	0.43	0.41
Control Delay	2.3	2.3	5.4	78.5	13.9
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	2.3	2.3	5.4	78.5	13.9
Queue Length 50th (ft)	9	59	102	46	6
Queue Length 95th (ft)	17	81	134	76	71
Internal Link Dist (ft)		568	596	380	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	936	4368	3909	557	398
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.16	0.26	0.27	0.16	0.35

Intersection Summary

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	141	1027	933	55	80	127
Future Volume (veh/h)	141	1027	933	55	80	127
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	153	1116	1014	60	87	138
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	876	4184	3702	219	343	197
Arrive On Green	0.03	0.82	0.75	0.75	0.10	0.10
Sat Flow, veh/h	3456	5274	5099	291	3456	1585
Grp Volume(v), veh/h	153	1116	700	374	87	138
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1818	1728	1585
Q Serve(g_s), s	1.6	8.1	10.3	10.3	3.7	13.4
Cycle Q Clear(g_c), s	1.6	8.1	10.3	10.3	3.7	13.4
Prop In Lane	1.00			0.16	1.00	1.00
Lane Grp Cap(c), veh/h	876	4184	2556	1365	343	197
V/C Ratio(X)	0.17	0.27	0.27	0.27	0.25	0.70
Avail Cap(c_a), veh/h	1070	4184	2556	1365	562	297
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	4.3	3.3	6.3	6.3	66.6	67.2
Incr Delay (d2), s/veh	0.1	0.2	0.3	0.5	0.4	4.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.5	3.7	4.0	1.7	5.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	4.4	3.5	6.5	6.8	67.0	71.7
LnGrp LOS	A	A	A	A	E	E
Approach Vol, veh/h		1269	1074		225	
Approach Delay, s/veh		3.6	6.6		69.9	
Approach LOS		A	A		E	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	11.0	127.1			138.1	21.9
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	3.6	12.3			10.1	15.4
Green Ext Time (p_c), s	0.3	9.6			11.9	0.5

Intersection Summary	
HCM 6th Ctrl Delay	10.7
HCM 6th LOS	B

Intersection	
Int Delay, s/veh	4.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	↑	↱	↰	↑	↰	↱
Traffic Vol, veh/h	332	356	63	234	164	35
Future Vol, veh/h	332	356	63	234	164	35
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	Stop
Storage Length	-	125	75	-	0	150
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	361	387	68	254	178	38

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	748	0	751	361
Stage 1	-	-	-	-	361	-
Stage 2	-	-	-	-	390	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	861	-	378	684
Stage 1	-	-	-	-	705	-
Stage 2	-	-	-	-	684	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	861	-	348	684
Mov Cap-2 Maneuver	-	-	-	-	348	-
Stage 1	-	-	-	-	705	-
Stage 2	-	-	-	-	630	-

Approach	EB	WB	NB
HCM Control Delay, s	0	2	23
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	NBLn2	EBT	EBR	WBL	WBT
Capacity (veh/h)	348	684	-	-	861	-
HCM Lane V/C Ratio	0.512	0.056	-	-	0.08	-
HCM Control Delay (s)	25.7	10.6	-	-	9.5	-
HCM Lane LOS	D	B	-	-	A	-
HCM 95th %tile Q(veh)	2.8	0.2	-	-	0.3	-

Intersection	
Int Delay, s/veh	2.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	83	49	127	84	80	428
Future Vol, veh/h	83	49	127	84	80	428
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	90	53	138	91	87	465

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	777	138	0	0	229	0
Stage 1	138	-	-	-	-	-
Stage 2	639	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	365	910	-	-	1339	-
Stage 1	889	-	-	-	-	-
Stage 2	526	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	341	910	-	-	1339	-
Mov Cap-2 Maneuver	419	-	-	-	-	-
Stage 1	889	-	-	-	-	-
Stage 2	492	-	-	-	-	-

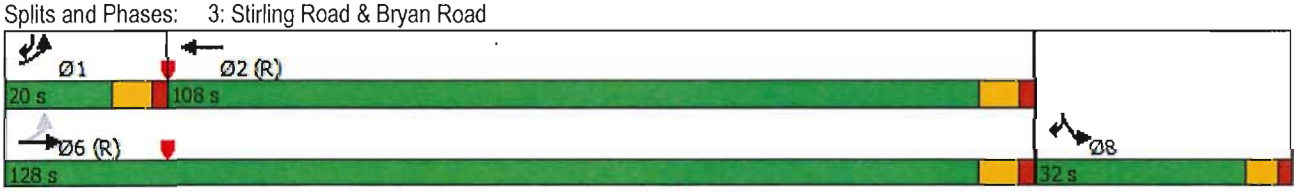
Approach	WB	NB	SB
HCM Control Delay, s	14.4	0	1.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	524	1339	-
HCM Lane V/C Ratio	-	-	0.274	0.065	-
HCM Control Delay (s)	-	-	14.4	7.9	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	1.1	0.2	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	103	1030	1458	164	243
Future Volume (vph)	103	1030	1458	164	243
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	122.2	122.2	108.3	24.8	38.7
Actuated g/C Ratio	0.76	0.76	0.68	0.16	0.24
v/c Ratio	0.27	0.29	0.49	0.33	0.64
Control Delay	6.8	6.3	13.6	60.7	53.2
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	6.8	6.3	13.6	60.7	53.2
LOS	A	A	B	E	D
Approach Delay		6.4	13.6	56.2	
Approach LOS		A	B	E	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 86 (54%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.64	
Intersection Signal Delay: 16.6	Intersection LOS: B
Intersection Capacity Utilization 55.7%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	112	1120	1663	178	264
v/c Ratio	0.27	0.29	0.49	0.33	0.64
Control Delay	6.8	6.3	13.6	60.7	53.2
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	6.8	6.3	13.6	60.7	53.2
Queue Length 50th (ft)	13	116	285	86	216
Queue Length 95th (ft)	26	167	382	119	297
Internal Link Dist (ft)		568	596	380	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	537	3940	3433	596	457
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.21	0.28	0.48	0.30	0.58

Intersection Summary

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	103	1030	1458	72	164	243
Future Volume (veh/h)	103	1030	1458	72	164	243
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	112	1120	1585	78	178	264
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	491	3861	3427	169	562	297
Arrive On Green	0.03	0.76	0.69	0.69	0.16	0.16
Sat Flow, veh/h	3456	5274	5153	245	3456	1585
Grp Volume(v), veh/h	112	1120	1082	581	178	264
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1826	1728	1585
Q Serve(g_s), s	1.5	11.0	23.3	23.3	7.3	26.0
Cycle Q Clear(g_c), s	1.5	11.0	23.3	23.3	7.3	26.0
Prop In Lane	1.00			0.13	1.00	1.00
Lane Grp Cap(c), veh/h	491	3861	2340	1256	562	297
V/C Ratio(X)	0.23	0.29	0.46	0.46	0.32	0.89
Avail Cap(c_a), veh/h	685	3861	2340	1256	562	297
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.7	6.1	11.5	11.5	59.2	63.4
Incr Delay (d2), s/veh	0.2	0.2	0.7	1.2	0.3	26.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	3.9	8.9	9.8	3.2	12.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	9.0	6.3	12.1	12.7	59.5	89.5
LnGrp LOS	A	A	B	B	E	F
Approach Vol, veh/h		1232	1663		442	
Approach Delay, s/veh		6.5	12.3		77.4	
Approach LOS		A	B		E	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	11.0	117.0			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	3.5	25.3			13.0	28.0
Green Ext Time (p_c), s	0.2	20.5			12.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	18.8
HCM 6th LOS	B

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	247	534	78	224	245	95
Future Volume (vph)	247	534	78	224	245	95
Turn Type	NA	pm+ov	Prot	NA	Prot	Prot
Protected Phases	2	8	1	6	8	8
Permitted Phases		2				
Detector Phase	2	8	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	33.0	30.0	17.0	50.0	30.0	30.0
Total Split (%)	41.3%	37.5%	21.3%	62.5%	37.5%	37.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Max	None	None	Max	None	None
Act Effct Green (s)	34.7	57.2	8.8	45.7	16.9	16.9
Actuated g/C Ratio	0.48	0.80	0.12	0.64	0.24	0.24
v/c Ratio	0.30	0.42	0.39	0.20	0.64	0.23
Control Delay	15.6	1.4	35.3	7.0	31.7	6.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	15.6	1.4	35.3	7.0	31.7	6.1
LOS	B	A	D	A	C	A
Approach Delay	5.9			14.3	24.5	
Approach LOS	A			B	C	

Intersection Summary	
Cycle Length: 80	
Actuated Cycle Length: 71.7	
Natural Cycle: 55	
Control Type: Semi Act-Uncoord	
Maximum v/c Ratio: 0.64	
Intersection Signal Delay: 12.1	Intersection LOS: B
Intersection Capacity Utilization 44.9%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 1: Bryan Road & Old Griffin

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	268	580	85	243	266	103
v/c Ratio	0.30	0.42	0.39	0.20	0.64	0.23
Control Delay	15.6	1.4	35.3	7.0	31.7	6.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	15.6	1.4	35.3	7.0	31.7	6.1
Queue Length 50th (ft)	71	3	35	38	106	0
Queue Length 95th (ft)	163	27	79	92	175	33
Internal Link Dist (ft)	969			851	206	
Turn Bay Length (ft)		125	75			150
Base Capacity (vph)	902	1448	310	1188	632	632
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.30	0.40	0.27	0.20	0.42	0.16

Intersection Summary

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	247	534	78	224	245	95
Future Volume (veh/h)	247	534	78	224	245	95
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	268	580	85	243	266	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1035	1165	111	1277	324	
Arrive On Green	0.55	0.55	0.06	0.68	0.18	0.00
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	268	580	85	243	266	0
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	5.0	10.2	3.1	3.2	9.6	0.0
Cycle Q Clear(g_c), s	5.0	10.2	3.1	3.2	9.6	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1035	1165	111	1277	324	
V/C Ratio(X)	0.26	0.50	0.77	0.19	0.82	
Avail Cap(c_a), veh/h	1035	1165	334	1277	682	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	7.8	3.7	30.8	3.9	26.2	0.0
Incr Delay (d2), s/veh	0.6	1.5	10.6	0.3	5.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	5.4	1.6	1.0	4.3	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	8.4	5.2	41.3	4.2	31.3	0.0
LnGrp LOS	A	A	D	A	C	
Approach Vol, veh/h	848			328	266	A
Approach Delay, s/veh	6.2			13.8	31.3	
Approach LOS	A			B	C	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	8.6	41.4			50.0	16.6
Change Period (Y+Rc), s	4.5	4.5			4.5	4.5
Max Green Setting (Gmax), s	12.5	28.5			45.5	25.5
Max Q Clear Time (g_c+I1), s	5.1	12.2			5.2	11.6
Green Ext Time (p_c), s	0.1	3.7			1.5	0.7

Intersection Summary	
HCM 6th Ctrl Delay	12.6
HCM 6th LOS	B

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	4.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	151	97	234	91	54	371
Future Vol, veh/h	151	97	234	91	54	371
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	164	105	254	99	59	403

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	775	254	0	0	353	0
Stage 1	254	-	-	-	-	-
Stage 2	521	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	366	785	-	-	1206	-
Stage 1	788	-	-	-	-	-
Stage 2	596	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	348	785	-	-	1206	-
Mov Cap-2 Maneuver	451	-	-	-	-	-
Stage 1	788	-	-	-	-	-
Stage 2	567	-	-	-	-	-

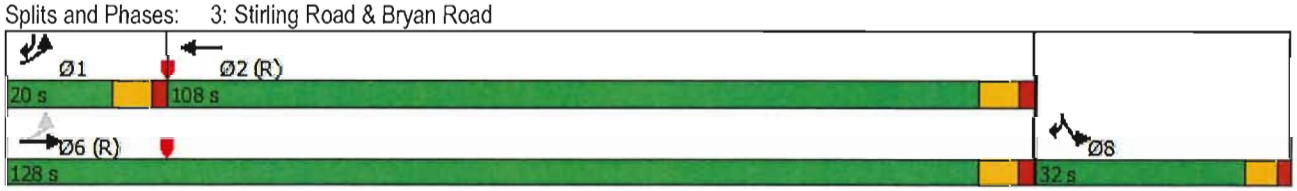
Approach	WB	NB	SB
HCM Control Delay, s	18.1	0	1
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	541	1206	-
HCM Lane V/C Ratio	-	-	0.498	0.049	-
HCM Control Delay (s)	-	-	18.1	8.1	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	2.8	0.2	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	372	1129	1049	142	291
Future Volume (vph)	372	1129	1049	142	291
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	122.0	122.0	103.2	25.0	43.8
Actuated g/C Ratio	0.76	0.76	0.64	0.16	0.27
v/c Ratio	0.59	0.32	0.39	0.29	0.62
Control Delay	9.4	6.6	14.5	59.5	38.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	9.4	6.6	14.5	59.5	38.5
LOS	A	A	B	E	D
Approach Delay		7.3	14.5	45.4	
Approach LOS		A	B	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 65 (41%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.62	
Intersection Signal Delay: 15.3	Intersection LOS: B
Intersection Capacity Utilization 54.9%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	404	1227	1255	154	316
v/c Ratio	0.59	0.32	0.39	0.29	0.62
Control Delay	9.4	6.6	14.5	59.5	38.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	9.4	6.6	14.5	59.5	38.5
Queue Length 50th (ft)	53	133	214	74	200
Queue Length 95th (ft)	86	189	297	104	281
Internal Link Dist (ft)		568	596	380	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	711	3944	3317	602	507
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.57	0.31	0.38	0.26	0.62

Intersection Summary

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	372	1129	1049	106	142	291
Future Volume (veh/h)	372	1129	1049	106	142	291
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	404	1227	1140	115	154	316
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	747	3861	3107	313	562	342
Arrive On Green	0.05	0.76	0.66	0.66	0.16	0.16
Sat Flow, veh/h	3456	5274	4882	475	3456	1585
Grp Volume(v), veh/h	404	1227	823	432	154	316
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1785	1728	1585
Q Serve(g_s), s	5.8	12.3	17.4	17.4	6.3	26.0
Cycle Q Clear(g_c), s	5.8	12.3	17.4	17.4	6.3	26.0
Prop In Lane	1.00			0.27	1.00	1.00
Lane Grp Cap(c), veh/h	747	3861	2244	1176	562	342
V/C Ratio(X)	0.54	0.32	0.37	0.37	0.27	0.92
Avail Cap(c_a), veh/h	843	3861	2244	1176	562	342
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	9.1	6.3	12.3	12.3	58.7	61.4
Incr Delay (d2), s/veh	0.6	0.2	0.5	0.9	0.3	29.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	4.3	6.8	7.3	2.8	15.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	9.7	6.5	12.7	13.1	59.0	91.4
LnGrp LOS	A	A	B	B	E	F
Approach Vol, veh/h		1631	1255		470	
Approach Delay, s/veh		7.3	12.9		80.8	
Approach LOS		A	B		F	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	15.5	112.5			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	7.8	19.4			14.3	28.0
Green Ext Time (p_c), s	0.7	12.4			14.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	19.7
HCM 6th LOS	B

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	359	684	106	253	514	171
Future Volume (vph)	359	684	106	253	514	171
Turn Type	NA	pm+ov	Prot	NA	Prot	Prot
Protected Phases	2	8	1	6	8	8
Permitted Phases		2				
Detector Phase	2	8	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	24.4	24.0	11.4	24.4	24.0	24.0
Total Split (s)	28.0	37.0	15.0	43.0	37.0	37.0
Total Split (%)	35.0%	46.3%	18.8%	53.8%	46.3%	46.3%
Yellow Time (s)	4.4	3.7	4.4	4.4	3.7	3.7
All-Red Time (s)	2.0	2.3	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.0	6.4	6.4	6.0	6.0
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Min	None	None	Min	None	None
Act Effct Green (s)	18.9	55.2	8.5	29.7	27.1	27.1
Actuated g/C Ratio	0.27	0.79	0.12	0.42	0.39	0.39
v/c Ratio	0.78	0.57	0.54	0.35	0.82	0.26
Control Delay	38.5	4.7	44.6	15.1	32.8	4.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	38.5	4.7	44.6	15.1	32.8	4.7
LOS	D	A	D	B	C	A
Approach Delay	16.4			23.8	25.8	
Approach LOS	B			C	C	

Intersection Summary	
Cycle Length: 80	
Actuated Cycle Length: 70.3	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.82	
Intersection Signal Delay: 20.8	Intersection LOS: C
Intersection Capacity Utilization 68.9%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Bryan Road & Old Griffin Road

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	390	743	115	275	559	186
v/c Ratio	0.78	0.57	0.54	0.35	0.82	0.26
Control Delay	38.5	4.7	44.6	15.1	32.8	4.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	38.5	4.7	44.6	15.1	32.8	4.7
Queue Length 50th (ft)	179	72	56	84	244	5
Queue Length 95th (ft)	#312	145	#121	137	#417	43
Internal Link Dist (ft)	969			851	206	
Turn Bay Length (ft)		125	75			150
Base Capacity (vph)	622	1313	235	1054	848	848
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.63	0.57	0.49	0.26	0.66	0.22

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	359	684	106	253	514	171
Future Volume (veh/h)	359	684	106	253	514	171
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	390	743	115	275	559	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	572	1032	147	896	616	
Arrive On Green	0.31	0.31	0.08	0.48	0.35	0.00
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	390	743	115	275	559	0
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	12.9	21.6	4.5	6.3	21.1	0.0
Cycle Q Clear(g_c), s	12.9	21.6	4.5	6.3	21.1	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	572	1032	147	896	616	
V/C Ratio(X)	0.68	0.72	0.78	0.31	0.91	
Avail Cap(c_a), veh/h	572	1032	217	969	781	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	21.5	8.1	31.8	11.3	22.0	0.0
Incr Delay (d2), s/veh	3.3	2.5	10.4	0.2	12.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	13.1	2.3	2.4	10.2	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	24.8	10.5	42.2	11.4	34.3	0.0
LnGrp LOS	C	B	D	B	C	
Approach Vol, veh/h	1133			390	559	A
Approach Delay, s/veh	15.5			20.5	34.3	
Approach LOS	B			C	C	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	12.2	28.0			40.2	30.4
Change Period (Y+Rc), s	6.4	6.4			6.4	6.0
Max Green Setting (Gmax), s	8.6	21.6			36.6	31.0
Max Q Clear Time (g_c+I1), s	6.5	23.6			8.3	23.1
Green Ext Time (p_c), s	0.0	0.0			1.7	1.3

Intersection Summary	
HCM 6th Ctrl Delay	21.5
HCM 6th LOS	C

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	4.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	114	77	325	150	87	661
Future Vol, veh/h	114	77	325	150	87	661
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	124	84	353	163	95	718

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1261	353	0	0	516	0
Stage 1	353	-	-	-	-	-
Stage 2	908	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	188	691	-	-	1050	-
Stage 1	711	-	-	-	-	-
Stage 2	393	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	171	691	-	-	1050	-
Mov Cap-2 Maneuver	283	-	-	-	-	-
Stage 1	711	-	-	-	-	-
Stage 2	358	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	26.3	0	1
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	371	1050	-
HCM Lane V/C Ratio	-	-	0.56	0.09	-
HCM Control Delay (s)	-	-	26.3	8.8	-
HCM Lane LOS	-	-	D	A	-
HCM 95th %tile Q(veh)	-	-	3.3	0.3	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	359	1162	1619	262	643
Future Volume (vph)	359	1162	1619	262	643
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	107.1	107.1	87.1	39.9	59.9
Actuated g/C Ratio	0.67	0.67	0.54	0.25	0.37
v/c Ratio	1.00	0.37	0.70	0.33	1.15
Control Delay	86.1	11.7	27.6	52.5	127.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	86.1	11.7	27.6	52.5	127.7
LOS	F	B	C	D	F
Approach Delay		29.3	27.6	105.9	
Approach LOS		C	C	F	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 86 (54%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.15	
Intersection Signal Delay: 45.2	Intersection LOS: D
Intersection Capacity Utilization 85.1%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	390	1263	1913	285	699
v/c Ratio	1.00	0.37	0.70	0.33	1.15
Control Delay	86.1	11.7	27.6	52.5	127.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	86.1	11.7	27.6	52.5	127.7
Queue Length 50th (ft)	148	197	515	127	~847
Queue Length 95th (ft)	#250	175	481	188	#1211
Internal Link Dist (ft)		568	596	380	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	391	3845	3177	856	608
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	1.00	0.33	0.60	0.33	1.15

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	359	1162	1619	141	262	643
Future Volume (veh/h)	359	1162	1619	141	262	643
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	390	1263	1760	153	285	699
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	480	3861	3161	274	562	340
Arrive On Green	0.05	0.76	0.66	0.66	0.16	0.16
Sat Flow, veh/h	3456	5274	4953	415	3456	1585
Grp Volume(v), veh/h	390	1263	1251	662	285	699
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1796	1728	1585
Q Serve(g_s), s	5.6	12.8	31.5	31.7	12.0	26.0
Cycle Q Clear(g_c), s	5.6	12.8	31.5	31.7	12.0	26.0
Prop In Lane	1.00			0.23	1.00	1.00
Lane Grp Cap(c), veh/h	480	3861	2249	1186	562	340
V/C Ratio(X)	0.81	0.33	0.56	0.56	0.51	2.06
Avail Cap(c_a), veh/h	581	3861	2249	1186	562	340
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.1	6.3	14.6	14.6	61.2	62.8
Incr Delay (d2), s/veh	7.3	0.2	1.0	1.9	0.8	485.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	4.5	12.4	13.4	5.4	59.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	30.4	6.5	15.6	16.5	61.9	548.6
LnGrp LOS	C	A	B	B	E	F
Approach Vol, veh/h		1653	1913		984	
Approach Delay, s/veh		12.2	15.9		407.6	
Approach LOS		B	B		F	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	15.3	112.7			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	7.6	33.7			14.8	28.0
Green Ext Time (p_c), s	0.7	26.5			14.7	0.0

Intersection Summary	
HCM 6th Ctrl Delay	99.3
HCM 6th LOS	F

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	247	567	91	224	304	118
Future Volume (vph)	247	567	91	224	304	118
Turn Type	NA	pm+ov	Prot	NA	Prot	Prot
Protected Phases	2	8	1	6	8	8
Permitted Phases		2				
Detector Phase	2	8	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	24.4	24.0	11.4	24.4	24.0	24.0
Total Split (s)	33.0	30.0	17.0	50.0	30.0	30.0
Total Split (%)	41.3%	37.5%	21.3%	62.5%	37.5%	37.5%
Yellow Time (s)	4.4	3.7	4.4	4.4	3.7	3.7
All-Red Time (s)	2.0	2.3	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.0	6.4	6.4	6.0	6.0
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Min	None	None	Min	None	None
Act Effct Green (s)	14.2	41.0	9.0	25.5	17.1	17.1
Actuated g/C Ratio	0.25	0.72	0.16	0.45	0.30	0.30
v/c Ratio	0.57	0.49	0.35	0.29	0.62	0.23
Control Delay	26.4	3.1	30.2	10.6	24.6	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	26.4	3.1	30.2	10.6	24.6	5.1
LOS	C	A	C	B	C	A
Approach Delay	10.2			16.3	19.2	
Approach LOS	B			B	B	

Intersection Summary	
Cycle Length: 80	
Actuated Cycle Length: 56.6	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.62	
Intersection Signal Delay: 13.9	Intersection LOS: B
Intersection Capacity Utilization 50.6%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 1: Bryan Road & Old Griffin

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	247	567	91	224	304	118
Future Volume (veh/h)	247	567	91	224	304	118
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	268	616	99	243	330	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	669	925	129	1023	403	
Arrive On Green	0.36	0.36	0.07	0.55	0.23	0.00
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	268	616	99	243	330	0
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	5.9	14.5	3.0	3.7	9.6	0.0
Cycle Q Clear(g_c), s	5.9	14.5	3.0	3.7	9.6	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	669	925	129	1023	403	
V/C Ratio(X)	0.40	0.67	0.77	0.24	0.82	
Avail Cap(c_a), veh/h	910	1130	346	1492	782	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	13.2	7.7	24.9	6.4	20.1	0.0
Incr Delay (d2), s/veh	0.4	1.1	9.3	0.1	4.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	7.2	1.5	1.1	4.1	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	13.5	8.8	34.2	6.6	24.3	0.0
LnGrp LOS	B	A	C	A	C	
Approach Vol, veh/h	884			342	330	A
Approach Delay, s/veh	10.3			14.6	24.3	
Approach LOS	B			B	C	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	10.3	26.0			36.3	18.3
Change Period (Y+Rc), s	6.4	6.4			6.4	6.0
Max Green Setting (Gmax), s	10.6	26.6			43.6	24.0
Max Q Clear Time (g_c+I1), s	5.0	16.5			5.7	11.6
Green Ext Time (p_c), s	0.1	3.1			1.5	0.8

Intersection Summary	
HCM 6th Ctrl Delay	14.2
HCM 6th LOS	B

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	5.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	159	97	316	105	54	418
Future Vol, veh/h	159	97	316	105	54	418
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	145	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	173	105	343	114	59	454

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	915	343	0	0	457	0
Stage 1	343	-	-	-	-	-
Stage 2	572	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	303	700	-	-	1104	-
Stage 1	719	-	-	-	-	-
Stage 2	565	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	287	700	-	-	1104	-
Mov Cap-2 Maneuver	406	-	-	-	-	-
Stage 1	719	-	-	-	-	-
Stage 2	535	-	-	-	-	-

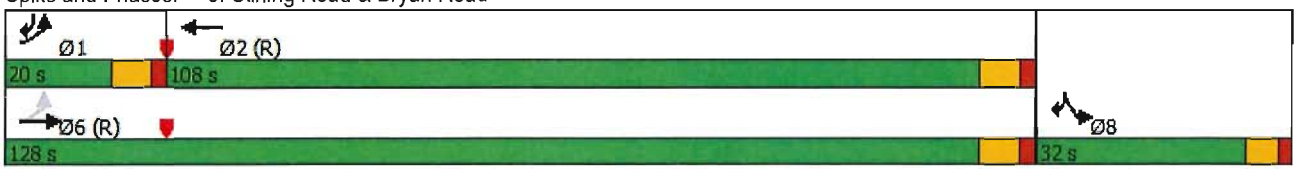
Approach	WB	NB	SB
HCM Control Delay, s	22.1	0	1
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	483	1104	-
HCM Lane V/C Ratio	-	-	0.576	0.053	-
HCM Control Delay (s)	-	-	22.1	8.4	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	3.6	0.2	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	433	1129	1049	172	399
Future Volume (vph)	433	1129	1049	172	399
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	112.7	112.7	90.5	34.3	56.5
Actuated g/C Ratio	0.70	0.70	0.57	0.21	0.35
v/c Ratio	0.71	0.34	0.45	0.25	0.70
Control Delay	16.0	10.0	21.4	51.9	38.9
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	16.0	10.0	21.4	51.9	38.9
LOS	B	A	C	D	D
Approach Delay		11.7	21.4	42.8	
Approach LOS		B	C	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 65 (41%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.71	
Intersection Signal Delay: 20.5	Intersection LOS: C
Intersection Capacity Utilization 58.5%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	433	1129	1049	123	172	399
Future Volume (veh/h)	433	1129	1049	123	172	399
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	471	1227	1140	134	187	434
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	753	3861	3021	355	562	353
Arrive On Green	0.06	0.76	0.65	0.65	0.16	0.16
Sat Flow, veh/h	3456	5274	4801	544	3456	1585
Grp Volume(v), veh/h	471	1227	838	436	187	434
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1772	1728	1585
Q Serve(g_s), s	6.9	12.3	18.2	18.2	7.7	26.0
Cycle Q Clear(g_c), s	6.9	12.3	18.2	18.2	7.7	26.0
Prop In Lane	1.00			0.31	1.00	1.00
Lane Grp Cap(c), veh/h	753	3861	2220	1156	562	353
V/C Ratio(X)	0.63	0.32	0.38	0.38	0.33	1.23
Avail Cap(c_a), veh/h	825	3861	2220	1156	562	353
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	9.9	6.3	12.8	12.8	59.3	62.2
Incr Delay (d2), s/veh	1.3	0.2	0.5	0.9	0.3	125.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	4.3	7.1	7.6	3.4	26.7
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	11.2	6.5	13.3	13.8	59.7	187.4
LnGrp LOS	B	A	B	B	E	F
Approach Vol, veh/h		1698	1274		621	
Approach Delay, s/veh		7.8	13.5		148.9	
Approach LOS		A	B		F	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	16.7	111.3			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	8.9	20.2			14.3	28.0
Green Ext Time (p_c), s	0.7	12.8			14.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	34.2
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	2.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	86	59	387	61	42	566
Future Vol, veh/h	86	59	387	61	42	566
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	100	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	93	64	421	66	46	615

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1128	421	0	0	487	0
Stage 1	421	-	-	-	-	-
Stage 2	707	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	226	632	-	-	1076	-
Stage 1	662	-	-	-	-	-
Stage 2	489	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	216	632	-	-	1076	-
Mov Cap-2 Maneuver	344	-	-	-	-	-
Stage 1	662	-	-	-	-	-
Stage 2	468	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	18.5	0	0.6
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	422	1076	-
HCM Lane V/C Ratio	-	-	0.373	0.042	-
HCM Control Delay (s)	-	-	18.5	8.5	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	1.7	0.1	-

Intersection	
Int Delay, s/veh	2.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	89	62	386	63	44	608
Future Vol, veh/h	89	62	386	63	44	608
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	100	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	97	67	420	68	48	661

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1177	420	0	0	488	0
Stage 1	420	-	-	-	-	-
Stage 2	757	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	211	633	-	-	1075	-
Stage 1	663	-	-	-	-	-
Stage 2	463	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	202	633	-	-	1075	-
Mov Cap-2 Maneuver	328	-	-	-	-	-
Stage 1	663	-	-	-	-	-
Stage 2	442	-	-	-	-	-

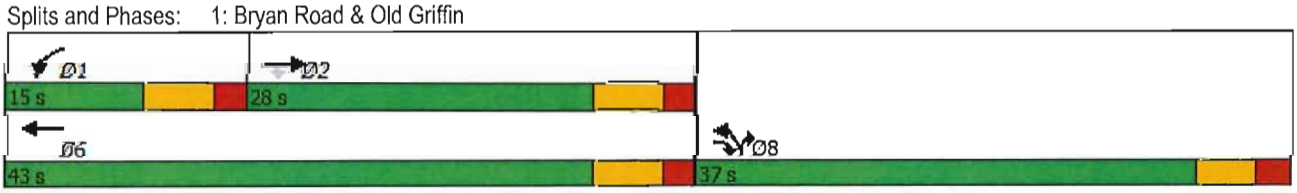
Approach	WB	NB	SB
HCM Control Delay, s	19.6	0	0.6
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	409	1075	-
HCM Lane V/C Ratio	-	-	0.401	0.044	-
HCM Control Delay (s)	-	-	19.6	8.5	-
HCM Lane LOS	-	-	C	A	-
HCM 95th %tile Q(veh)	-	-	1.9	0.1	-

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	359	752	133	253	549	185
Future Volume (vph)	359	752	133	253	549	185
Turn Type	NA	pm+ov	Prot	NA	Prot	Prot
Protected Phases	2	8	1	6	8	8
Permitted Phases		2				
Detector Phase	2	8	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	24.4	24.0	11.4	24.4	24.0	24.0
Total Split (s)	28.0	37.0	15.0	43.0	37.0	37.0
Total Split (%)	35.0%	46.3%	18.8%	53.8%	46.3%	46.3%
Yellow Time (s)	4.4	3.7	4.4	4.4	3.7	3.7
All-Red Time (s)	2.0	2.3	2.0	2.0	2.3	2.3
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.4	6.0	6.4	6.4	6.0	6.0
Lead/Lag	Lag		Lead			
Lead-Lag Optimize?	Yes		Yes			
Recall Mode	Min	None	None	Min	None	None
Act Effct Green (s)	19.2	54.8	8.5	34.2	29.1	29.1
Actuated g/C Ratio	0.25	0.72	0.11	0.45	0.38	0.38
v/c Ratio	0.82	0.68	0.74	0.33	0.88	0.28
Control Delay	43.3	7.6	57.9	15.1	38.8	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	43.3	7.6	57.9	15.1	38.8	5.2
LOS	D	A	E	B	D	A
Approach Delay	19.1			29.9	30.4	
Approach LOS	B			C	C	

Intersection Summary	
Cycle Length: 80	
Actuated Cycle Length: 75.8	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.88	
Intersection Signal Delay: 24.7	Intersection LOS: C
Intersection Capacity Utilization 72.3%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Bryan Road & Old Griffin



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	390	817	145	275	597	201
v/c Ratio	0.82	0.68	0.74	0.33	0.88	0.28
Control Delay	43.3	7.6	57.9	15.1	38.8	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	43.3	7.6	57.9	15.1	38.8	5.2
Queue Length 50th (ft)	179	120	72	84	269	9
Queue Length 95th (ft)	#312	223	#164	137	#462	49
Internal Link Dist (ft)	969			851	206	
Turn Bay Length (ft)		125	75			150
Base Capacity (vph)	536	1237	203	909	731	755
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.73	0.66	0.71	0.30	0.82	0.27

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	359	752	133	253	549	185
Future Volume (veh/h)	359	752	133	253	549	185
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	390	817	145	275	597	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	537	1028	181	885	645	
Arrive On Green	0.29	0.29	0.10	0.47	0.36	0.00
Sat Flow, veh/h	1870	1585	1781	1870	1781	1585
Grp Volume(v), veh/h	390	817	145	275	597	0
Grp Sat Flow(s),veh/h/ln	1870	1585	1781	1870	1781	1585
Q Serve(g_s), s	14.1	21.6	6.0	6.8	24.2	0.0
Cycle Q Clear(g_c), s	14.1	21.6	6.0	6.8	24.2	0.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	537	1028	181	885	645	
V/C Ratio(X)	0.73	0.79	0.80	0.31	0.93	
Avail Cap(c_a), veh/h	537	1028	204	910	734	
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	24.2	8.4	33.1	12.2	23.1	0.0
Incr Delay (d2), s/veh	4.9	4.4	18.5	0.2	16.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.7	16.0	3.4	2.7	12.4	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	29.1	12.8	51.6	12.4	39.6	0.0
LnGrp LOS	C	B	D	B	D	
Approach Vol, veh/h	1207			420	597	A
Approach Delay, s/veh	18.1			25.9	39.6	
Approach LOS	B			C	D	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	14.0	28.0			42.0	33.2
Change Period (Y+Rc), s	6.4	6.4			6.4	6.0
Max Green Setting (Gmax), s	8.6	21.6			36.6	31.0
Max Q Clear Time (g_c+I1), s	8.0	23.6			8.8	26.2
Green Ext Time (p_c), s	0.0	0.0			1.7	1.0

Intersection Summary	
HCM 6th Ctrl Delay	25.3
HCM 6th LOS	C

Notes

Unsignalized Delay for [NBR] is excluded from calculations of the approach delay and intersection delay.

Intersection	
Int Delay, s/veh	5.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	130	77	373	158	87	757
Future Vol, veh/h	130	77	373	158	87	757
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	145	215	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	141	84	405	172	95	823

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1418	405	0	0	577	0
Stage 1	405	-	-	-	-	-
Stage 2	1013	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	151	646	-	-	996	-
Stage 1	673	-	-	-	-	-
Stage 2	351	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 137	646	-	-	996	-
Mov Cap-2 Maneuver	249	-	-	-	-	-
Stage 1	673	-	-	-	-	-
Stage 2	318	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	38.2	0	0.9
HCM LOS	E		

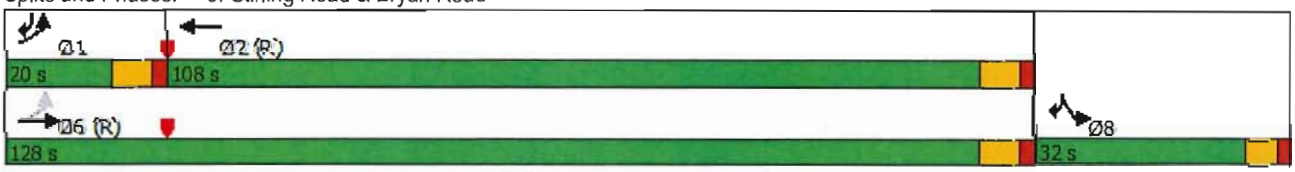
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	323	996	-
HCM Lane V/C Ratio	-	-	0.697	0.095	-
HCM Control Delay (s)	-	-	38.2	9	-
HCM Lane LOS	-	-	E	A	-
HCM 95th %tile Q(veh)	-	-	4.9	0.3	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	485	1162	1619	280	706
Future Volume (vph)	485	1162	1619	280	706
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	20.0	128.0	108.0	32.0	
Total Split (%)	12.5%	80.0%	67.5%	20.0%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	108.7	108.7	88.7	38.3	58.3
Actuated g/C Ratio	0.68	0.68	0.55	0.24	0.36
v/c Ratio	1.36	0.37	0.70	0.37	1.29
Control Delay	212.2	11.0	26.8	54.2	183.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	212.2	11.0	26.8	54.2	183.7
LOS	F	B	C	D	F
Approach Delay		70.3	26.8	146.9	
Approach LOS		E	C	F	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 86 (54%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.36	
Intersection Signal Delay: 69.7	Intersection LOS: E
Intersection Capacity Utilization 89.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	527	1263	1951	304	767
v/c Ratio	1.36	0.37	0.70	0.37	1.29
Control Delay	212.2	11.0	26.8	54.2	183.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	212.2	11.0	26.8	54.2	183.7
Queue Length 50th (ft)	~309	190	519	138	~1014
Queue Length 95th (ft)	#418	168	483	202	#1379
Internal Link Dist (ft)		568	596	552	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	388	3845	3170	822	593
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	1.36	0.33	0.62	0.37	1.29

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	485	1162	1619	176	280	706
Future Volume (veh/h)	485	1162	1619	176	280	706
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	527	1263	1760	191	304	767
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	549	3861	2953	319	562	386
Arrive On Green	0.08	0.76	0.63	0.63	0.16	0.16
Sat Flow, veh/h	3456	5274	4846	506	3456	1585
Grp Volume(v), veh/h	527	1263	1279	672	304	767
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1779	1728	1585
Q Serve(g_s), s	11.8	12.8	35.5	35.8	12.9	26.0
Cycle Q Clear(g_c), s	11.8	12.8	35.5	35.8	12.9	26.0
Prop In Lane	1.00			0.28	1.00	1.00
Lane Grp Cap(c), veh/h	549	3861	2149	1123	562	386
V/C Ratio(X)	0.96	0.33	0.60	0.60	0.54	1.99
Avail Cap(c_a), veh/h	549	3861	2149	1123	562	386
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.5	6.3	17.4	17.5	61.5	60.5
Incr Delay (d2), s/veh	28.4	0.2	1.2	2.4	1.1	452.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.0	4.5	14.2	15.3	5.8	64.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	64.9	6.5	18.6	19.8	62.6	513.0
LnGrp LOS	E	A	B	B	E	F
Approach Vol, veh/h		1790	1951		1071	
Approach Delay, s/veh		23.7	19.1		385.2	
Approach LOS		C	B		F	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	20.0	108.0			128.0	32.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	13.0	101.0			121.0	26.0
Max Q Clear Time (g_c+I1), s	13.8	37.8			14.8	28.0
Green Ext Time (p_c), s	0.0	27.1			14.7	0.0

Intersection Summary	
HCM 6th Ctrl Delay	102.3
HCM 6th LOS	F

Intersection						
Int Delay, s/veh	2.2					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	65	45	522	119	82	861
Future Vol, veh/h	65	45	522	119	82	861
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	100	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	71	49	567	129	89	936

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1681	567	0	0	696	0
Stage 1	567	-	-	-	-	-
Stage 2	1114	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	104	523	-	-	900	-
Stage 1	568	-	-	-	-	-
Stage 2	314	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	94	523	-	-	900	-
Mov Cap-2 Maneuver	209	-	-	-	-	-
Stage 1	568	-	-	-	-	-
Stage 2	283	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	27.5	0	0.8
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	277	900	-
HCM Lane V/C Ratio	-	-	0.432	0.099	-
HCM Control Delay (s)	-	-	27.5	9.4	-
HCM Lane LOS	-	-	D	A	-
HCM 95th %tile Q(veh)	-	-	2.1	0.3	-

Intersection	
Int Delay, s/veh	3.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	89	47	594	123	86	840
Future Vol, veh/h	89	47	594	123	86	840
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	150	100	-
Veh in Median Storage, #	1	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	97	51	646	134	93	913

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1745	646	0	0	780	0
Stage 1	646	-	-	-	-	-
Stage 2	1099	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	~ 95	472	-	-	837	-
Stage 1	522	-	-	-	-	-
Stage 2	319	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 84	472	-	-	837	-
Mov Cap-2 Maneuver	202	-	-	-	-	-
Stage 1	522	-	-	-	-	-
Stage 2	284	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	37.7	0	0.9
HCM LOS	E		

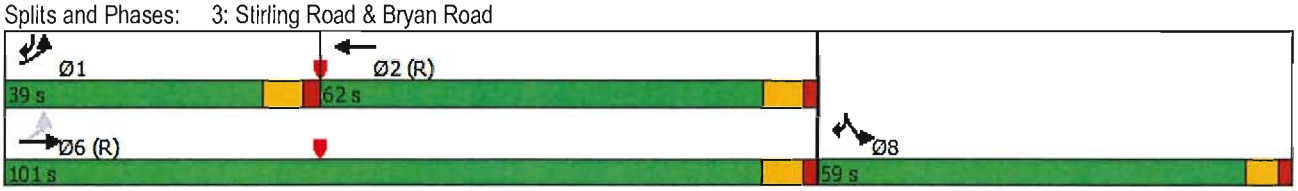
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	252	837	-
HCM Lane V/C Ratio	-	-	0.587	0.112	-
HCM Control Delay (s)	-	-	37.7	9.8	-
HCM Lane LOS	-	-	E	A	-
HCM 95th %tile Q(veh)	-	-	3.4	0.4	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	433	1129	1049	172	399
Future Volume (vph)	433	1129	1049	172	399
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	39.0	101.0	62.0	59.0	
Total Split (%)	24.4%	63.1%	38.8%	36.9%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	107.5	107.5	79.0	39.5	68.0
Actuated g/C Ratio	0.67	0.67	0.49	0.25	0.42
v/c Ratio	0.65	0.36	0.51	0.22	0.64
Control Delay	17.9	12.4	30.0	47.2	38.4
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	17.9	12.4	30.0	47.2	38.4
LOS	B	B	C	D	D
Approach Delay		14.0	30.0	41.1	
Approach LOS		B	C	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 65 (41%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.65	
Intersection Signal Delay: 24.3	Intersection LOS: C
Intersection Capacity Utilization 58.5%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	471	1227	1274	187	434
v/c Ratio	0.65	0.36	0.51	0.22	0.64
Control Delay	17.9	12.4	30.0	47.2	38.4
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	17.9	12.4	30.0	47.2	38.4
Queue Length 50th (ft)	91	193	324	80	344
Queue Length 95th (ft)	165	270	456	106	372
Internal Link Dist (ft)		568	596	552	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	921	3416	2476	1137	775
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.51	0.36	0.51	0.16	0.56

Intersection Summary

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	433	1129	1049	123	172	399
Future Volume (veh/h)	433	1129	1049	123	172	399
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	471	1227	1140	134	187	434
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	687	3319	2424	285	929	558
Arrive On Green	0.08	0.65	0.52	0.52	0.27	0.27
Sat Flow, veh/h	3456	5274	4801	544	3456	1585
Grp Volume(v), veh/h	471	1227	838	436	187	434
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1772	1728	1585
Q Serve(g_s), s	9.6	17.7	24.9	24.9	6.7	39.1
Cycle Q Clear(g_c), s	9.6	17.7	24.9	24.9	6.7	39.1
Prop In Lane	1.00			0.31	1.00	1.00
Lane Grp Cap(c), veh/h	687	3319	1781	927	929	558
V/C Ratio(X)	0.69	0.37	0.47	0.47	0.20	0.78
Avail Cap(c_a), veh/h	1091	3319	1781	927	1145	657
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.6	12.9	24.1	24.1	45.2	46.3
Incr Delay (d2), s/veh	1.2	0.3	0.9	1.7	0.1	5.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	6.9	10.4	11.0	2.9	16.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	19.8	13.2	25.0	25.8	45.3	51.3
LnGrp LOS	B	B	C	C	D	D
Approach Vol, veh/h		1698	1274		621	
Approach Delay, s/veh		15.0	25.3		49.5	
Approach LOS		B	C		D	

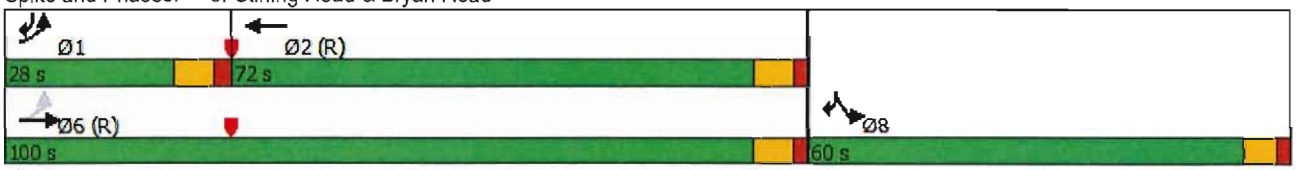
Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	20.3	90.7			111.0	49.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	32.0	55.0			94.0	53.0
Max Q Clear Time (g_c+I1), s	11.6	26.9			19.7	41.1
Green Ext Time (p_c), s	1.7	10.5			13.8	1.9

Intersection Summary	
HCM 6th Ctrl Delay	24.6
HCM 6th LOS	C

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	485	1162	1619	280	706
Future Volume (vph)	485	1162	1619	280	706
Turn Type	pm+pt	NA	NA	Prot	pt+ov
Protected Phases	1	6	2	8	8 1
Permitted Phases	6				
Detector Phase	1	6	2	8	8 1
Switch Phase					
Minimum Initial (s)	4.0	12.0	12.0	6.0	
Minimum Split (s)	11.0	22.0	25.0	27.0	
Total Split (s)	28.0	100.0	72.0	60.0	
Total Split (%)	17.5%	62.5%	45.0%	37.5%	
Yellow Time (s)	5.0	5.0	5.0	4.0	
All-Red Time (s)	2.0	2.0	2.0	2.0	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	
Total Lost Time (s)	7.0	7.0	7.0	6.0	
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	Min	C-Min	C-Min	None	
Act Effct Green (s)	93.0	93.0	65.0	54.0	82.0
Actuated g/C Ratio	0.58	0.58	0.41	0.34	0.51
v/c Ratio	0.97	0.43	0.95	0.26	0.94
Control Delay	81.4	19.2	57.5	39.3	57.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	81.4	19.2	57.5	39.3	57.6
LOS	F	B	E	D	E
Approach Delay		37.5	57.5	52.4	
Approach LOS		D	E	D	

Intersection Summary	
Cycle Length: 160	
Actuated Cycle Length: 160	
Offset: 86 (54%), Referenced to phase 2:WBT and 6:EBTL, Start of Green	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 48.9	Intersection LOS: D
Intersection Capacity Utilization 89.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Stirling Road & Bryan Road



Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Group Flow (vph)	527	1263	1951	304	767
v/c Ratio	0.97	0.43	0.95	0.26	0.94
Control Delay	81.4	19.2	57.5	39.3	57.6
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	81.4	19.2	57.5	39.3	57.6
Queue Length 50th (ft)	235	260	717	119	741
Queue Length 95th (ft)	#356	295	#806	160	#1038
Internal Link Dist (ft)		568	596	552	
Turn Bay Length (ft)	240			250	480
Base Capacity (vph)	541	2955	2043	1158	812
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.97	0.43	0.95	0.26	0.94

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	485	1162	1619	176	280	706
Future Volume (veh/h)	485	1162	1619	176	280	706
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	527	1263	1760	191	304	767
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	564	2968	1900	205	1166	743
Arrive On Green	0.13	0.58	0.41	0.41	0.34	0.34
Sat Flow, veh/h	3456	5274	4846	506	3456	1585
Grp Volume(v), veh/h	527	1263	1279	672	304	767
Grp Sat Flow(s),veh/h/ln	1728	1702	1702	1779	1728	1585
Q Serve(g_s), s	19.0	22.0	57.2	57.7	10.2	54.0
Cycle Q Clear(g_c), s	19.0	22.0	57.2	57.7	10.2	54.0
Prop In Lane	1.00			0.28	1.00	1.00
Lane Grp Cap(c), veh/h	564	2968	1383	723	1166	743
V/C Ratio(X)	0.94	0.43	0.92	0.93	0.26	1.03
Avail Cap(c_a), veh/h	564	2968	1383	723	1166	743
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.5	18.6	45.2	45.3	38.5	42.5
Incr Delay (d2), s/veh	23.1	0.4	11.8	20.2	0.1	41.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.5	8.9	26.3	29.4	4.4	37.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	74.5	19.1	57.0	65.5	38.6	84.1
LnGrp LOS	E	B	E	E	D	F
Approach Vol, veh/h		1790	1951		1071	
Approach Delay, s/veh		35.4	59.9		71.2	
Approach LOS		D	E		E	

Timer - Assigned Phs	1	2			6	8
Phs Duration (G+Y+Rc), s	28.0	72.0			100.0	60.0
Change Period (Y+Rc), s	7.0	7.0			7.0	6.0
Max Green Setting (Gmax), s	21.0	65.0			93.0	54.0
Max Q Clear Time (g_c+I1), s	21.0	59.7			24.0	56.0
Green Ext Time (p_c), s	0.0	4.6			14.4	0.0

Intersection Summary	
HCM 6th Ctrl Delay	53.3
HCM 6th LOS	D

DANIA BEACH
SEA IT LIVE IT LOVE IT

City of Dania Beach, Florida
Department of Community Development
Planning and Zoning Division
(954) 924-6805 X3643
(954) 922-2687 Fax

Standard Development Application

- ☐ **Administrative Variance**
- ☐ **Land Use Amendment**
- ☐ **Plat**
- ☐ **Rezoning** — **Date Rec'd:** _____
- ☑ **Site Plan**
- ☐ **Special Exception** — **Petition No.:** _____
- ☐ **Variance**
- ☐ **Other:** _____ ***(SEE APPLICATION TYPE SCHEDULE ON PAGES 3 & 4)***

THIS APPLICATION WILL NOT BE ACCEPTED UNTIL IT IS COMPLETE AND SUBMITTED WITH ALL NECESARY DOCUMENTS. Refer to the application type at the top of this form and **"Required Documentation"** checklist to determine the supplemental documents required with each application.
For after the fact applications, the responsible contractor of record shall be present at the board hearing. Their failure to attend may impact upon the disposition of your application. As always, the applicant or their authorized legal agent must be present at all meetings. All projects must also obtain a building permit from the City Building Division. For more information please reference the **Dania Beach Land Development Code Part 6, Development Review Procedures and Requirements.**

Location Address: Please See Attached

Lot(s): _____ Block: _____ Subdivision: _____

Recorded Plat Name: _____

Folio Number(s): Please See Attached Legal Description: Please See Attached

Applicant/Consultant/Legal Representative **(circle one)** Kimley-Horn and Associates, Inc - Jacob B. Lawson

Address of Applicant: 445 24th Street, Suite 200, Vero Beach, FL 32960

Business Telephone: 772-794-4100 Home: _____ Fax: _____

E-mail address: jacob.lawson@kimley-horn.com

Name of Property Owner: Please See Attached

Address of Property Owner: Please See Attached

Business Telephone: _____ Home: _____ Fax: _____

Explanation of Request: Site Plan for 70 WAVE
*For **Plats** please provide proposed **Plat Name** for **Variances** please attach **Criteria Statement** as per **Section 625.40 of the Land Development Code.***

Prop. Net Acreage: 3.04 Gross Acreage: 3.37 Prop. Square Footage: see plan

Existing Use: Marina / Vacant Proposed Use: Mixed Use

Is property owned individually, by a corporation, association, or a joint venture?
Corporation

AUTHORIZED REPRESENTATIVE

I/we are fully aware of the request being made to the City of Dania Beach. If I/We are unable to be present, I/we hereby authorize Kimley-Horn and Associates, Inc **(individual/firm) to represent me/us in all matters related to this application. I/we hereby acknowledge that the applicable fee was established to offset administrative costs and is not refundable.**

I/we are fully aware that all approvals automatically expire within 12 months of City of Dania Beach Planning and Zoning Board or City Commission approval, or pursuant to the expiration timeframe listed in Part 6 of the Dania Beach Land Development Code.

RJ Marina Holdings LLC, owner as to 70 S. Bryan Rd.

STATE OF FLORIDA
COUNTY OF BROWARD
The foregoing instrument was acknowledged

By: _____
(Owner / Agent signature*) Roger Moore

BEFORE ME THIS 19 **DAY OF** June **, 20**20

By:

Roger Moore
(Print name of person acknowledging)

_____
(Joint owner signature if applicable)

Notary _____
(Signature of Notary Public – State of Florida**)**

RENEE MARIE SMITH
MY COMMISSION # GG066359
EXPIRES January 25, 2021

Personally known X **or Produced Identification** _____

Type of identification produced: _____ **or Drivers License** _____

***If joint ownership, both parties must sign. If partnership, corporation or association, an authorized officer must sign on behalf of the group. A notarized letter of authorization from the owner of record must accompany the application if an authorized agent signs for the owner(s).**

NO APPLICATION WILL BE AUTOMATICALLY SCHEDULED FOR A MEETING.

ALL APPLICATIONS MUST BE DETERMINED COMPLETE BY STAFF BEFORE PROCESSING OCCURS.

Is property owned individually, by a corporation, association, or a joint venture?
Corporation

AUTHORIZED REPRESENTATIVE

I/we are fully aware of the request being made to the City of Dania Beach. If I/We are unable to be present, I/we hereby authorize Kimley-Horn and Associates, Inc **(individual/firm) to represent me/us in all matters related to this application. I/we hereby acknowledge that the applicable fee was established to offset administrative costs and is not refundable.**

I/we are fully aware that all approvals automatically expire within 12 months of City of Dania Beach Planning and Zoning Board or City Commission approval, or pursuant to the expiration timeframe listed in Part 6 of the Dania Beach Land Development Code.

NV Marina Holdings LLC owner as to 50 S. Bryan Rd.

STATE OF FLORIDA
COUNTY OF BROWARD
The foregoing instrument was acknowledged

By: _____
(Owner / Agent signature*) Roger Moore

BEFORE ME THIS 19 **DAY OF** June **, 20** 20

By:

Roger Moore
(Print name of person acknowledging) **(Joint owner signature if applicable)**

Notary _____

(Signature of Notary Public – State of Florida **)**

RENEE MARIE SMITH
MY COMMISSION # GG066359
EXPIRES January 25, 2021

Personally known X **or Produced Identification** _____

Type of identification produced: _____ **or Drivers License** _____

***If joint ownership, both parties must sign. If partnership, corporation or association, an authorized officer must sign on behalf of the group. A notarized letter of authorization from the owner of record must accompany the application if an authorized agent signs for the owner(s).**

NO APPLICATION WILL BE AUTOMATICALLY SCHEDULED FOR A MEETING.

ALL APPLICATIONS MUST BE DETERMINED COMPLETE BY STAFF BEFORE PROCESSING OCCURS.

Kimley»Horn

Attachment to Development Application – Dania Beach Marina Redevelopment Site Plan

NV Marina Holdings LLC	
Location Address	50 S. Bryan Road, Dania Beach, FL 33004
Recorded Plat Name	Clarke Subdivision (PB 101-32)
Folio Number	504233320010
Legal Description	Please see the attached legal description.
Name of Property Owner	NV Marina Holdings LLC
Address of Property Owner	50 S. Bryan Road, Dania Beach, FL 33004
Business Telephone	786-344-6032

RJ Marina Holdings LLC	
Location Address	70 S. Bryan Road, Dania Beach, FL 33004
Recorded Plat Name	To be Platted
Folio Number	504233000600 & 504233000611
Legal Description	Please see the attached legal description.
Name of Property Owner	RJ Marina Holdings, LLC
Address of Property Owner	70 S. Bryan Road, Dania Beach, FL 33004
Business Telephone	786-344-6032

Kimley»Horn

70 Wave - Site Plan Narrative

Dania Beach Marina Corp, NV Marina Holdings LLC, and RJ Marina Holdings LLC ("Applicants") are proposing to construct a mixed-use development on approximately 5.79 gross acres of land generally located along the eastern corridor of Bryan Road between Stirling Road and Northwest 1st Street ("Project") in the City of Dania Beach ("City"). The Applicants are proposing to develop the Project with a mix of residential, commercial and office uses to improve the housing options and commercial opportunities within this area of the City in accordance with the goals, objectives, and policies of the adopted comprehensive plan. The proposed redevelopment is consistent and compatible with the existing and developing properties within the surrounding area and the City's Regional Activity Center ("RAC") land use designation. The Project is part of the overall PMUD-SL mixed use planned development zoning district.

The Applicants are submitting stand alone site plans for each of the two buildings. These will be referred to as 90 Wave for 90 N. Bryan Rd and 70 Wave for the combination of 50 and 70 S. Bryan Rd.

Kimley»Horn

June 17, 2020

David Zipoli
Battalion Chief
Broward County Sheriff's Office
Department of Fire Rescue & Emergency Services
Fire Marshal's Office
Dania Beach District
103 West Dania Beach Blvd.
Dania Beach, Florida 33004

RE: ***70 Wave – Fire Prevention Code Letter***

Dear Mr. Zipoli:

This letter is to identify that the proposed watermain sizing, fire hydrant spacing, and fire hydrant locations for the subject project are in compliance with the Broward County Land Use Code and the Florida Fire Prevention Code.

Please contact me at (772) 794-4110 or Jacob.Lawson@kimley-horn.com should you have any questions.

Sincerely,

Jacob Lawson

Digitally signed by Jacob Lawson
DN: cn=Jacob Lawson, c=US, o=Unaffiliated, ou=A01427E00000166A617F2750000416B, email=jacob.lawson@kimley-horn.com
Date: 2020.06.17 14:36:33 -04'00'

Jacob B. Lawson, P.E.
Associate/Project Manager

JACOB BRINTON LAWSON
LICENSE
No. 83357
STATE OF FLORIDA
PROFESSIONAL ENGINEER

K:\VRB_LDEV\147706000 Dania Beach Marina\ENG\Utilities (Wet)\FIRE FLOW\Fire Prevention Code Letter.docx

BROWARD SHERIFF'S OFFICE
DEPARTMENT OF FIRE RESCUE AND EMERGENCY SERVICES
FIRE MARSHAL'S BUREAU
DANIA BEACH DISTRICT
103 West Dania Beach Boulevard
Dania Beach, FL 33004
Phone: (954) 342-4262
Fax: (954) 342-4265

Sheriff Scott Israel

APPLICATION FOR APPROVAL OF THE FIRE PROTECTION WATER SUPPLY DESIGN

Date of Application: July 2, 2020

Site Plan Application #: TBD

Name of Project/Development: 70 Wave

Address of Project/Development: 50 and 70 S. Bryan Rd, Dania Beach (50 and 70 S Bryan Rd being unified)

Owner/Agent: RJ Marina Holdings LLC and NV Marina Holdings LLC / Roger Moore

Design Professional of Record: Jacob B. Lawson, P.E.

Water Purveyor: City of Dania Beach

Water Purveyor Address: 100 W. Dania Beach Blvd., Dania Beach, FL 33004

In order for the Broward Sheriff's Office, Department of Fire Rescue, Fire Marshal's Bureau to provide an approval letter for the adequacy of the fire protection water supply design for the above referenced project, the following information must be provided:

Affirmation of Compliance with Fire Protection Water Supply Design Requirements:

1. The Type of Construction" is 1A in accordance with NFPA 220.
2. The total fire protection water supply needed for manual firefighting (fire flow) and fire sprinkler/standpipe operations is 1,500 gallons per minute. (In compliance with water supply requirements for manual firefighting operations in accordance NFPA 1 (2012 Ed.), Chapter 18, Section 18.4 and the Broward County Land Development Code; and the water supply necessary for fire sprinkler and standpipe operations in accordance with the currently adopted editions of NFPA 13 and NFPA 14).
3. **Statement of verification from the design professional of record, on official company letterhead, that the proposed water main sizing, fire hydrant spacing, and fire hydrant locations, are in compliance with the Broward County Land Use Code and the Florida Fire Prevention Code. (Attach signed and sealed document).**

This will affirm that the above stated information and attached statement of verification for this project/development is accurate and can be relied on for the requested approval letter to the applicable water purveyor.

Signature - Owner/Agent/Occupant: Date 6/19/2020

Signature - Design Professional of Record Date 6/23/2020

Kimley»Horn

Project Name: 70 Wave
Project Number: 147706000
Date: 6/17/2020

Dania Beach Marina Redevelopment Fire Flow and Hydrant Demand

70 Wave	Building Type	Sub-Area sf	Total Area sf	Flow gpm	Sprinkled yes/no	75% Sprinkler Reduction[3, 8] gpm	Minimum Required Flow[4] gpm	Minimum Required Duration hour	Minimum Required Number of Hydrants
Floor 1 - 2 (Retail/Restaurant/Office/Residential Work Live Units) = 103,202 SF Floor 3-4 (Parking) = 157,218 SF Floor 5 (Residential Units, Amenities) = 25,739 SF Floor 6 (Residential Units) = 25,739 SF Floor 7 - 16 (Residential Units) = 356,070 SF	1A	667,968	667,968	6,000	yes	1,500	1,500	4	1
			-			-			
			-			-			

Notes and assumptions:

1. Fire Flow Calculations per NFPA 1 Section 18.4.5.3 Buildings Other Than One and Two-Family Dwellings - 2015 Edition.
2. Maximum Fire Hydrant Fire Flow Capacity from Table 18.5.4.3. All hydrants assumed to be within 250ft of the buildings.
3. Required fire flow shall be reduced by 75 percent when the building is protected throughout by an approved automatic sprinkler system (NFPA 18.4.5.3.2).
4. Minimum required flow shall not be less than 1,000 gpm or greater than 2,000 gpm for 2 hours for buildings protected throughout by an approved automatic sprinkler system (NFPA 18.4.5.3.2 & NFPA 18.4.5.3.4).
5. Florida Building Code (FBC) Building Type VB is equivalent to NFPA Building Type V(000).
6. Florida Building Code (FBC) Building Type IIB is equivalent to NFPA Building Type II(000).
7. All buildings to be protected throughout by an approved automatic sprinkler system.
8. Required fire flow for open parking structures are not protected throughout by an approved automatic sprinkler system shall be reduced by 75 percent where all of the following conditions are met: (1) The structure complies with the building code. (2) The structure is of Type I or Type II construction. (3) The structure is provided with a Class I standpipe system in accordance with NFPA 14. Class I standpipe systems of the manual dry type shall be permitted. (4) The resulting fire flow is not less than 1,000 gpm.

JACOB BRINTON LAWSON
LICENSE
No. 83357
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Jacob Lawson

Jacob B. Lawson, P.E.
Florida License Number #83357

WATER SUPPLY FLOW TEST

Location: Dania Beach, FL

Static 60 psi Flow 1061 gpm Residual 48 psi Pitot 40 psi Date: 02/27/20

Nozzle Type: 1-2.5" Pollard Diffuser(s) Discharge Coeff: 0.90 Time: 9:30 AM

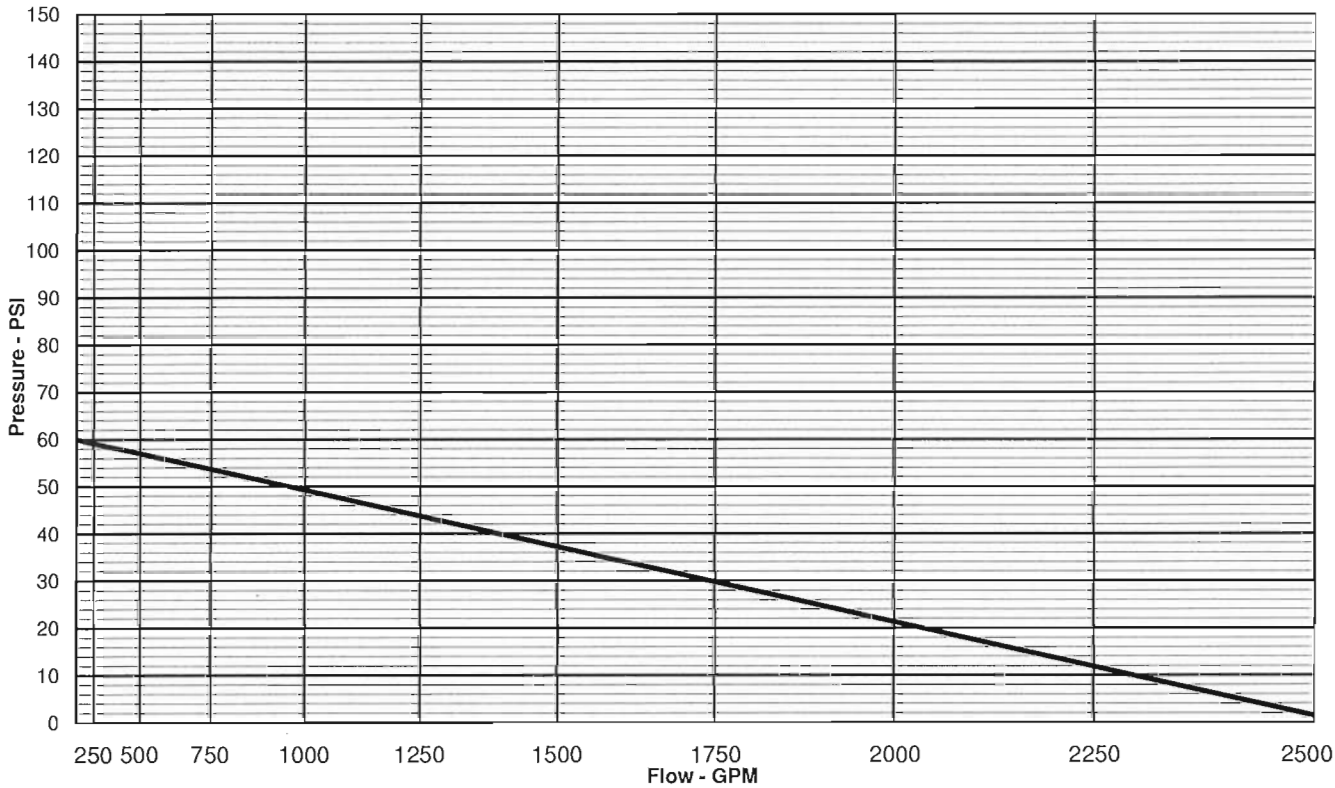
Gauge Location: Hydrant on the east side of S. Bryan Rd, approximately 204 feet south of NW 1st St. EST

Gauge Elevation: 4 ft. AMSL

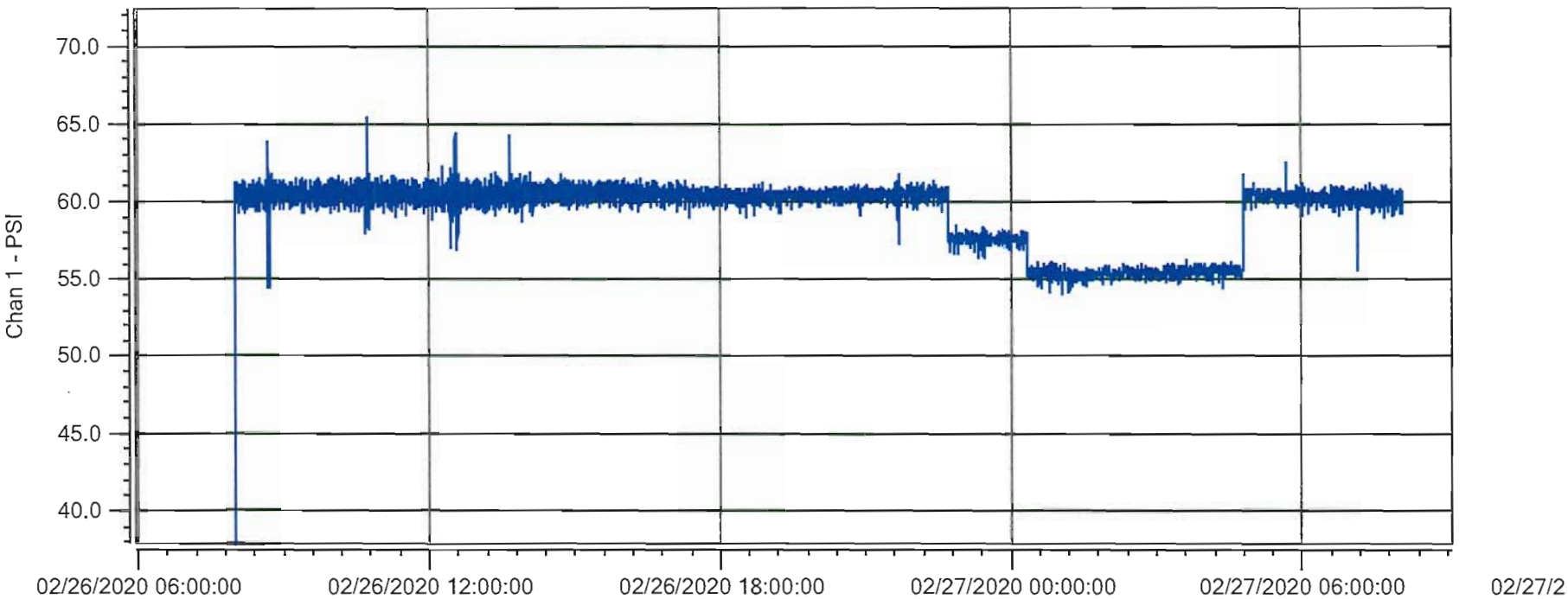
Flow Location: Hydrant on the east side of S. Bryan Rd, approximately 470 feet south of NW 1st St.

Test By Chad A. Lueders Alternatives in Engineering, Inc.

Conferred With:



		Static	Residual	Residual	Residual
Hydrant Flow Rate	gpm	0	2034	2000	0
Available Pressure At Test	psi	60.00	20.00	21.23	



Data Date: 02/26/2020 05:56:56

Unit Tag: Pressure Logger

File: Dania Beach fl 022720.dat

Serial Number: 3404776B0

Kimley»Horn

February 27, 2020
Revised June 29, 2020

Marjorie G. Craig, P.E.
City of Dania Beach
100 W Dania Beach Boulevard
Dania Beach, FL 33004

RE: ***Dania Marina –Transportation Mitigation Impact Fee Calculation***
Dania Beach, Florida
Kimley-Horn # 140432000

Dear Ms. Craig:

The following is a summary of the City of Dania's transportation mitigation impact fees associated with the apartment component of the future Dania Marina development. This phase of the development will consist of 760 high-rise dwelling units, 20,000 square feet of retail space, 16,000 square feet of general office, and 50,000 square feet of restaurant use.

Broward County's adopted PM peak hour trip rates were used to calculate the peak hour trips generated by the proposed apartment. The City's currently adopted Impact Fee Schedule indicates that the current traffic mitigation fee for properties within the City's Regional Activity Center (RAC) is $21.26 per PM peak hour trip. Therefore, to calculate the Traffic Mitigation Impact Fee owed to the City, the number of PM peak hour trips was multiplied by the cost per PM peak hour trip. Table 1 summarizes this calculation for the proposed apartment and retail site. Please note that these trip generation rates are only used for the purpose of calculating impact fees and do not relate to the trip generation calculations for the Dania Marina entitlements.

Table 1: Dania Marina –Apartment Transportation Mitigation Impact Fees

Land Use	# of Trips/ Peak Hour (T/PH)	Trip Length Factor	Adjusted # of Trips/ Peak Hour (T/PH)	Cost Per Trip	Final Cost
760 High-Rise Apartments	281	0.88	247.28	$ 21.26	$ 5,257.17
20,000 square feet of General Commercial	217	0.65	141.05	$ 21.26	$ 2,998.72
16,000 square feet of General Office	48	0.77	36.96	$ 21.26	$ 785.77
50,000 square feet of Restaurant	495	0.65	321.75	$ 21.26	$ 6,840.41

SUMMARY

As determined herein, the City's Traffic Mitigation Impact Fee associated with the proposed Dania Marina site is $15,882.07. Please contact me via telephone at (561) 840-0248 or via e-mail at chris.heggen@kimley-horn.com should you have any questions regarding this determination.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

Christopher W. Heggen, P.E.
Transportation Engineer

Florida Registration
Number 58636
Certificate of Authorization
Number CA00000696

CHRISTOPHER W. HEGGEN
LICENSE
No. 58636
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

This item has been electronically signed and sealed by Christopher W. Heggen, P.E. using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on electronic copies.

Christopher W Heggen
2020.06.29
14:35:47 -04'00'

k:\wpb_tpto\1477\147706000 - dania marina\tia\rac\2020-6-29 dania marina rac.docx

Kimley»Horn

September 2, 2020

City of Dania Beach
100 W. Dania Beach Boulevard,
Dania Beach, FL 33004
Phone: (954) 924-6805

RE: SP-024-20 Dania Beach Marina (WAVE 70)

To Whom it May Concern,

Please accept the following responses to your comments concerning the above referenced project.

TRAFFIC ENGINEERING
Xavier R. Falconi, P.E.

Trip Generation – August 5 TIA

Comment) It is not a good practice to borrow relationships regarding AM peak pass-by capture rates published by ITE for fast food restaurants and apply them to the restaurant uses used here. Please remove all the AM peak pass by capture reductions for the restaurant uses, revise all the AM peak analyses in the future build condition, and revise the report consistent with the corrected volumes. No evaluation of future build AM peak conditions is possible until the analysis is done with the corrected volumes.

Response) ***As discussed on our phone call on 8/26, we have provided additional reference material from the ITE Pass-By Trip Generation Handbook, 3rd Edition that was used in extrapolating an AM peak hour pass-by rate for the restaurant uses. As discussed, ITE does not provide data for pass-by rates for high-turnover sit-down restaurant or quality restaurant during the AM peak hour; however this does not mean that there is no pass-by during this time, only that data has not been published. In order to determine an appropriate AM pass-by rate, we have compared the ratio between AM and PM peak hour pass-by rates for fast food restaurant to the PM peak hour pass-by rate for quality restaurant and high turnover sit-down restaurant uses. The AM and PM peak hour pass-by rates for fast food restaurant were basicallyequal (49% in the AM peak hour and 50% in the PM peak hour); therefore, the pass-by rates for the quality restaurant and high turnover sit-down restaurant are expected to be the same in the AM peak hour as the rates published for the PM peak hour. There are a few other pieces of supporting evidence we have included for the***

necessity of providing AM peak hour pass-by reductions for the proposed restaurant space. The ITE rates for AM peak hour trips for Quality restaurant and High Turnover Sit-Down restaurant are 0.73 trips/ksf and 9.94 trips/ksf respectively. In the original submittal the proposed 50ksf of restaurant space was analyzed as Quality restaurant and after addressing the first rounds of comments half of it was changed to High Turnover Sit-Down restaurant in order to be conservative, considering there are no proposed tenants at this time. The AM peak hour trip generations for these two land uses differ by an order of magnitude. Based on the surrounding land uses found in Dania Pointe, and the proposed 90 Wave and 70 Wave sites operating as a mixed-use development we would expect that the actual trip generation for the restaurant space to generate trips closer to what would be expected from a Quality Restaurant. The 90 Wave & 70 Wave residential units and Dania Pointe visitors would likely generate much of the restaurant traffic and therefore would be either walkers or included as pass-by trips. We have included the ITE material related to pass-by rates for reference in Appendix C of the updated report.

Synchro Analyses

Comment) Please provide the existing PM peak Synchro analyses for all three offsite intersections. The included reports are the AM analyses with a different header. The three intersections are:

1. Stirling Road at Bryan Road
2. NW 1st Street at Bryan Road
3. Old Griffin Road at Bryan Road

Response) ***The existing PM peak Synchro analysis has been corrected with the appropriate existing volumes and the report has been updated.***

Comment) Please revise the volumes for 2024 AM background for the analysis of Bryan Road at Stirling Road consistent with the volume development table.

Response) ***The volume development table for AM background was incorrectly referencing committed developments from 150 S Dania and has been appropriately updated.***

Comment) Please revise the volumes in the AM analysis of the North driveway consistent with Figure 10.

Response) ***The volumes for the north driveway have been revised in Figure 10 in the updated analysis.***

Comment) Please revise the volumes in the AM and PM analyses of the south driveway consistent with Figure 10.

Response) ***The AM and PM future Synchro analysis has been updated to properly reflect those volumes shown in Figure 10.***

Report Body

Comment) The requirement to include 95th percentile queue lengths and turn bay capabilities in Tables 2-4 was ignored. Please add them.

Response) ***The turn bay storage capacities and 95th percentile queue lengths have been added to the revised report. A section including analysis of these turn bays has also been added as well.***

Comment) In Figure 8, please revise the AM peak 2-way volume north of Stirling Road.

Response) ***The volume shown in Figure 8 is correct and the 2-way volumes for background AM peak hour north of Stirling Road were correct, however, the volume development sheet had incorrectly referenced committed trips from 150 S Bryan and has been updated to the correct values.***

ENGINEERING
Mohammed Sharifuzzaman

TIER 1 COMMENTS

Comment 1) Provide R/W (width/dimensions), NVAL, R/W dedication, and all Easements information on all engineering plans and Site Plan. Call out right-of-way dedication on the engineering plans and site plan. Not satisfied. Indicate if the R/W is being dedicated with this application and development. Call out the plan accordingly. Call out proposed R/W instead of future potential R/W.

Response 1) ***The ROW is being dedicated to the County as requested by the City at time of Master Plan Approval. This is shown on the Site Plan and is shown on the engineering plans as well. We have also called this out as proposed ROW in lieu of potential ROW.***

Comment 2) Provide offsite roadway improvements plans with sufficient details. City R/W permit shall be required for offsite improvements. Not satisfied. Proposed removal of muck within R/W may impact the existing underground utilities. Clarify how the existing utilities to be protected including WM, gas main and drainage pipes.

Response 2) ***We have notes on the offsite plans requiring the contractor to protect the utilities during any excavation. The Contractor is responsible for means and methods of excavation and protection for such. This is***

exactly what we did for the previously permitted roadway drawings for the work completed with the City for the development across the street. This note is shown on the General Notes Sheet-3, notes 21-27. This was discussed during DRC Meeting on August 27th.

Comment 3) Provide site cross sections in engineering plans. Not satisfied. Provide the requested sections with sufficient details. Indicate muck removal, new cut & fill, etc. The offsite plans cross sections refer to onsite cross sections. The sections shall be provided along all sides of the site.

Response 3) ***Above ground cross sections have been provided. Per email from the City Engineer on 8-25, the underground information that the reviewer is looking for is now only required at building permit review as described per the City code.***

Comment 4) Will there be header curb or 'D' curb along paver bricks? If so, please provide sufficient details on the plans. Not satisfied. Type D curb shall be required to prevent offsite sheet flow. Also, revise Type F curb to Type D curb to match offsite roadway plans.

Response 4) ***A D-curb has been provided as requested where reviewer was concerned with offsite flow and details updated to reflect it. The grading plan has been updated to show the intent that offsite flows will not shed below the 25 yr storm event. Finer/intricate grading will occur at time of engineering review and approval.***

Comment 5) Indicate how the solid waste will be collected from the site? Provide a letter from solid waste management service company as applicable. Not satisfied. There is no trash facility for north building. It is not clear how the trash can be transferred to south building.

Response 5) ***We have coordinated with Choice Waste of Florida, Inc. and they have provided their letter of acceptance and ability to service our site based on our plans provided them and you. See exhibits included with this resubmittal that show that this works. Their letter is also included with this resubmittal package..***

Comment 6) If a parking aisle requires access for emergency vehicles, garbage trucks or trucks moving to or from a loading area, that parking aisle shall be at least twenty-four (24) feet wide. (Section 265-110). Not satisfied. The proposed loading spaces and access may not be suitable for trucks operation.

Response 6) ***Please see included with this submittal the revised exhibits showing the west columns relocated at the head of the loading area so that the truck can better maneuver.***

Comment 7) Please provide water and sewer availability letters from utility providers.

Not satisfied. Please submit the letters from City Engineer. The applicant will be responsible for Force Main modeling and upgrading of Lift Station #8 if required. Water and sewer service agreement shall be required.

Response 7) ***These letters are included with this resubmittal. The analysis is a tier 2 comment agreed too at DRC meeting on August 27th and will be provided at time of design and permitting of the lift station.***

Comment 8) Please provide drainage report and calculations indicating storm water retention in project site. Min. Perimeter grade shall be at or above 25-year 72-hour design storm stage. Not satisfied. The submitted conceptual calculations are not satisfactory. Hydraulic Conductivity for exfiltration trench shall be based on existing site test results. Provide documentation or tests for drainage well capacity. Well discharge shall only start at elevation 3.50 feet NAVD. Exfiltration trench length shall be twice than required when used for quantity purpose (Water quality volume is 0.42 ac-ft). Provide updated conceptual calculations and drainage plans satisfying 25-year storm stage and perimeter berm requirement. The drainage well casing pipe top elevation shall be set at 3.50 feet NAVD to prevent backflow. Revise the drainage well structure detail accordingly. No detail provided for retention area drainage wells.

Response 8) ***Per email from the City Engineer on 8-25, the complete drainage analysis will be provided at time of building permit review. Conceptual calculations and details have already been provided. We will provide calculations and design consistent with Broward County, SFWMD, City of Dania Beach and submitted signed and sealed Drainage Statement. Final Paving Drainage and Grading Drawings will be provided at said time.***

Comment 9) Comments for DDG: Not satisfied. Revise the Section for Utility Provider and Service. Lift Station is private. All utilities beyond the point of service are private facilities.

All parking spaces shall be clearly delineated by a single four-inch wide, white, painted striping wherever a hard-paved parking surface is required. If double line to be utilized then DDG shall specify the requirement.

Response 9) ***The DDGs have been updated for the utility section and the striping will be clearly delineated by a single line. Language from the DDGs has been updated to read as follows. UTILITY PROVIDER AND SERVICE Water and wastewater infrastructure service is presently available to the property and provisions have been made for the connection to these systems; connection points will be coordinated with the City of Dania Beach. Utilities are intended to be designed and developed as public private infrastructure connecting to public systems. Lift Stations are to be constructed as private stations. All utilities beyond the point of service are private facilities. Utility***

designs will meet Broward County and Florida Department of Health and Environmental Protection Standards. Easements necessary to serve the development (internal) shall be provided as follows:....

TIER 2 COMMENTS:

Comment 1) Additional comments may apply and will need to be addressed prior to Building Permit approval.

Response 1) ***Acknowledged.***

Comment 2) Provide Maintenance of Traffic (MOT) Plan by a licensed General Contractor/Professional Engineer in the State of Florida (If applicable).

Response 2) ***This will be provided as necessary for engineering permit issuance.***

Comment 3) In accordance with City Code of Ordinances in Article 415. SIDEWALKS AND SWALES, Owner is responsible for the construction of sidewalks / swales within the road ROW when buildings are constructed or substantially improved.

Response 3) ***See offsite roadway plans included with this submittal.***

Comment 4) Detail and complete engineering plans will be required prior to Building and R/W permit approval.

Response 4) ***Acknowledged.***

Comment 5) Provide utility piping conflict details plan, along with documentation to demonstrate acceptability of the separation between water, sanitary, storm-water service lines, etc.

Response 5) ***This will be provided as necessary for engineering permit issuance.***

Comment 6) Show also all existing and proposed utilities on the landscaping plans for potential conflicts.

Response 6) ***This is shown.***

Comment 7) Provide BC standard details for pavement marking and signage. All traffic control signs shall conform to Broward County Traffic Engineering (BCTED) and MUTCD standards. BCTED signs specifications consist of Type XI retroreflective sheeting materials except for school zone and pedestrian signs which shall be comprised of retroreflective fluorescent yellow-green sheeting certified type IV.

Response 7) ***This will be provided as necessary for engineering permit issuance.***

Comment 8) All pavement markings shall be alkyd based thermoplastic and fully retroreflectorized, per BCTED specifications with the exception of parking stall striping.

Response 8) ***Acknowledged.***

Comment 9) Provide ADA parking, access / driveway, and sidewalks /ramps including dimensions in accordance with Chapter 553 of the Florida Statutes. "Accessibility of Handicapped Persons" and latest edition of "Accessibility Requirements Manual" by Department of Community Affairs, Florida Board Building Codes and Standards, and 'in accordance with Americans with Disability Act (ADA).

Response 9) ***This is provided.***

Comment 10) Provide drawing file (dwg or dgn) disk of the approved site plan in Florida State Plane Coordinate (NAD 83). This should be addressed as part of the final submittal.

Response 10) ***This will be provided as necessary for engineering permit issuance.***

Comment 11) Provide regulatory agencies' approval documentation and Permits/Licenses (as applicable) as part of the final submittal, prior to issuance of the Building Permit (Broward County Surface Water License, Broward County Wastewater Permit, Florida Department of Environmental Protection, FDOT, BC Environmental, BC Aviation, BCTED etc.). Also, include Utility / Right of Way Permits from City, Broward County, and State Roads as applicable.

Response 11) ***This will be provided as necessary for building permit issuance.***

LANDSCAPING
Jake Ripp

DDG Comments

Comment 1) Update Section (5)1. C-10 Canal Buffer to read that the trademarked Greenscreen.com will be utilized in situations where the potted trees/palms cannot be provided.

Response 1) ***This has been addressed.***

Comment 2) Update the C-10 Canal requirements in the Exhibit 9: Buffer Summary Table to a requirement of 1 tree and 10 shrubs every 80 LF. This is half of the standard requirement of 1 tree every 40 LF.

Response 2) ***This has been addressed.***

Tree Disposition and Landscape Plan Comments:

Comment 1) Per Sec. 825-80 and Sec. 825-140(C), specimen trees shall be relocated if they cannot be retained in-place. Removal is only allowed if relocation is not feasible. all of the specimen trees proposed for removal are good candidates for relocation. Incorporate these trees into the landscape plan as relocated trees and update the disposition or provide adequate justification why these trees cannot be relocated.

Response 1) ***Response: All specimen trees located on 70 wave are to be relocated if not able to remain. See sheet L0.50 Tree Mitigation Plan – 70 Wave.***

Comment 2) The current total specimen tree appraisal value doesn't match the shown on the tree disposition table for specimen trees to be removed. Update accordingly. Note that this may change based on comment 1.

Response 2) ***The appraisal value and the tree disposition table have been updated accordingly.***

Comment 3) The Sec. 825-100(A)(5) 1.5 canopy mitigation multiplier should not be added to the canopy mitigation of category I or II invasive species. Include a total non-invasive canopy to be removed, the total non-invasive canopy to be removed with the 1.5 multiplier, total category II canopy to be removed (mitigated at a one-to-one rate), and the total category I invasive canopy to be removed (mitigated at 25% or .25 multiplier). Include the total canopy to be removed after all multipliers are added.

Response 3) ***Tree mitigation calculations have been broken down into the above categories to properly display how the total canopy removed was determined.***

Comment 4) Provide the formula used to calculate the specimen tree appraisal values. Include the nursery quotes used for the replacement cost.

Response 4) ***Formula is taken from Dania Beach Code 825.125.C.2 "Appraised Tree Value = Price of Replacement Tree × 2.7 × Size Factor × Health/Condition Factor × Location Score". A table showing appraisal calculation for each specimen tree has been included on sheet L0.50'***

Nursery Quotes:

Category 1A Tree (5.5" 16' HT Live Oak) - $600
Replacement Palm (6' CT Min Sabal Palm) - $100
Category 3 Tree (6' Ht Min Silver Buttonwood) - $125

Comment 5) Silver buttonwoods are category 3 small trees and are given a canopy credit of 100 SF for mitigation purposes, not 300 SF which currently shown. Update the mitigation calculations accordingly.

Response 5) ***Tree mitigation calculations have been updated to show this, see sheet L0.50.***

Comment 6) The landscape plan does not show existing trees 1232 or 1233 while the disposition plan shows them to be relocated. Clarify.

Response 6) ***This discrepancy has been corrected. Tree designations now match throughout the landscape set.***

Comment 6) Update the renderings to match the proposed landscape plan.

Response 6) ***We have added a note in the DDGs below the first rendering provided after discussion was had with Jake Ripp on 9/1/2020. The note to be added says the renderings shown in the DDGs are conceptual only and that the City approved Landscape plans will govern.***

Comment 7) The landscape plan does not show tree 1304 while the disposition plan shows it to be relocated. Clarify. This was likely misnamed as tree 1340.

Response 7) ***This discrepancy has been corrected. Tree designations now match throughout the landscape set.***

Comment 8) Update the renderings to match the proposed landscape plan.

Response 8) ***We have added a note in the DDGs below the first rendering provided after discussion was had with Jake Ripp on 9/1/2020. The note to be added says the renderings shown in the DDGs are conceptual only and that the City approved Landscape plans will govern.***

Comment 9) Provide the proper C-10 buffering in accordance with the updated DDG comments. If the trees cannot be provided due to spatial constraints, utilize the trademarked greenscreen to provide adequate buffering from the residential properties across the canal.

Response 9) ***Greenscreens have been provided to accommodate the lack of buffering. These will be 4' wide greenscreens, each accounting for 1 canopy per discussion with Jake Ripp (8/27/2020)***

DRC 1st Zoning Review Site Plan
Corrine Lajoie

Site Plan Comments:

Comment 1) Incomplete information was provided. Further review and comment will be conducted by staff after additional information is provided by the applicant. See comments below. Per Section 635-50 the following information must be provided:

~~(A) The proposed title of the project and the name of the professionals who prepared each plan, including engineer, architect, landscape architect and the developer;~~

~~(B) The north arrow, scale and date;~~

~~(C) Existing zoning of the subject site and adjacent properties;~~

~~(D) Proposed changes in zoning to the applicant property, if any;~~

~~(E) Adjacent land uses and buildings within two hundred (200) feet of the property, including use and number of floors, dimensioned to property line of subject site;~~

~~(F) Legal description and net acreage;~~

~~(G) Location sketch of subject property in relation to surrounding area;~~

(H) Site boundaries clearly identified, dimensioned, and tied to section corners; Show on site plan. 2x time requested.

Response H) ***This has now been clearly shown now based on conversations with Corinne and Eleanor on August 21st based on what we're looking for. Section corner is now shown on the site plan within the ROW.***

~~(I) Locations and dimensions of all existing and proposed rights-of-way and dedications, including ultimate right-of-way lines (if applicable), easements, property lines, streets, buildings, watercourses and water bodies, pedestrian areas, and other existing physical features in or adjoining the project, and their disposition (example: to be retained, demolished, modified, etc.);~~

(J) The location and dimensions of proposed setback lines; 2nd time requested.

Response J) ***This has been corrected. See revised site plan.***

~~(K) The location and dimensions of proposed reservations for parks, playgrounds, open spaces and other common areas;~~

~~(L) The location, dimensions, bearings, and curve data of proposed streets, alleys and driveways;~~

~~(M) The location, dimensions and character of construction of proposed curb cuts, entrances and exits, parking and loading~~

~~areas (including number of parking spaces and loading spaces), pedestrian use areas, and vehicular use areas;~~

~~(N) Photometric plan;~~

~~(O) Location and dimensions of all proposed buildings, excavations, and structures to lot lines and to each other;~~

~~(P) Conceptual preliminary drainage and grading plans and statement of proposed drainage systems and methods;~~

~~(Q) Typical trash and garbage disposal and recycling system, including typical enclosure details and the location of each;~~

~~(R) Separate landscape plan prepared in accordance with article 275, "Landscaping Requirements";~~

~~(S) Location, character, size, height and orientation of proposed signs, including building signage details shown on plan elevations and method of illumination;~~

~~(T) All existing and proposed pedestrian walkways and bicycle paths;~~

~~(U) Existing and proposed public transit routes, bus shelter locations and easements for such shelters, and proposed layout of rights-of-way, if necessary;~~

~~(V) Proposed building floor plans and architectural elevations of all sides of all buildings and structures, including building height and finished floor elevations;~~

~~(W) Type and location of mail receptacles;~~

~~(X) Conceptual utilities plan, including all underground and above-ground improvements;~~

(Y) The following computations: Show on site plan.

(1) Total gross and net acreage; Only "Site Area" is identified, not gross as required. 2x requested

Response 1) ***We now show gross site area (measured to Centerline of all ROWs as discussed in DRC), site area, ROW dedication area, and net site area after ROW dedication as requested at DRC Meeting.***

(2) Proposed net and gross density, and number of dwelling units for site plans with residential components; Density is not identified on site plan. Sheet C-100. 2x requested.

Response 2) ***Gross and net density is now show on the plan as requested at DRC Meeting. This is based on Gross and Net Density numbers mentioned above.***

(3) Total existing and proposed square footage of buildings and breakdowns by floor, use type, bay or tenant space, and dwelling unit, including required and provided minimum floor areas; Building square footage not provided on Site Plan, Sheet C-100. 2x requested.

Response 3) ***These items are provided on the right hand side of the site plan as shown during our meeting with Corinne and Eleanor on August 21st.***

(4) Area devoted to vehicular use areas (roadways, aisles, parking); Only "ground" area identified. 2x requested.

Response 4) ***This was previously provided, but not in logical location on the plan. We have added this value under the lot coverage data section for ease of finding. This was discussed in our August 21st meeting with Corinne and Eleanor.***

(5) Gross project area allocated for common open space; Non provided. 2x requested.

Response 5) ***Per DRC Meeting on 8-27, we were asked to include the Open space located on the amenity deck. Gross open space and net site area open space is now shown. Gross open space includes the offsite streets where Net site area open space does not. The open space from the amenity deck is included in both numbers. Open space is specifically defined within the DDGs.***

~~(6) Lot coverage by roofed structures;~~

~~(7) Pervious and impervious surface area, also expressed as a percentage of the site area;~~

(8) Number of required and provided parking spaces including handicap-accessible, compact and any spaces devoted to attendant parking if permitted; Provide calculations to ensure compliance.

Response 8) ***The parking requirements are now clearly provided in the DDGs and the site plan has been updated accordingly to clear up the confusion. The relevant Code sections are now referenced within the DDGs. Warranted parking ratios are based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All parking required for this establishment is met by the required ratios within the DDGs and on the Site Plan.***

~~(9) Minimum lot area, width and depth required and provided;~~

(10) Minimum yard setbacks or specific build-to lines required and provided; Dania Beach Boulevard required setback = 14' per proposed DDG. Revise Sheet C-100 accordingly.

Response 10) ***This has been corrected and provided.***

~~(11) Maximum and minimum (if applicable) required and~~

~~proposed building height;~~

~~(12) Minimum floor area required;~~

(13) Adjacent zoning and existing land uses;

Response 13) ***Per DRC Meeting with Corinne and Eleanor on 8-21, we were asked to show the land use designation at RAC. This is now corrected.***

~~(Z) Traffic circulation and pavement marking plan (may be shown on site plan sheets);~~

~~(AA) Phasing plan, if applicable, with beginning and ending dates of construction of the entire project and beginning and ending dates for all phases of the project;~~

~~(BB) For properties under consideration for rezoning to PRD-1, a document detailing development standards and criteria (i.e., building height, setbacks, density, lot area, landscaping, parking, open space, lot coverage, sign regulations, etc.);~~

~~(CC) Color site plan elevations and renderings for meeting presentation purposes;~~

~~(DD) If necessary, written authorization to reproduce any documents accompanying site plan submittals from the applicant, agent, architect, landscape architect, engineer, attorney, etc.~~

~~Comment 2)~~ ~~APPLICATION: Confirm application was properly completed, signed, and proper application fee was paid.~~

~~Comment 3)~~ ~~Must submit application, application fee, justification statement based on criteria identified in the LDC, and any other documentation necessary for all Variances, Special Exceptions, Waivers, Design Variations, etc needed for the project at time of Site Plan Submittal. Failure to do so will result in delay of the project.~~

Comment 4) TIER 1 - PLATTING: Application is being processed.

Response 4) ***Waves at Dania Beach Plat has been resubmitted and submitted to the County. Letter determination is also attached to this resubmittal of the requirements for the platting process from the County.***

Comment 5) SCHOOLS: Obtain a SCAD report from Broward County School Board regarding school impact fees. 2 x requested.

Response 5) ***These letters have been provided to the City and are submitted with this resubmittal.***

Comment 6) RIGHT-OF-WAY: ~~Identify if R-O-W dedication is required.~~ ROW dedication of 23'-xx" is provided.

Response 6) ***Dimensions are now provided in the site plan and language will be provided as necessary at the required time.***

~~Comment 7) TRAFFIC STUDY: per Section 605-30(K), a traffic study is required for all development generating in excess of 50 peak hour trips. Provide estimated number of peak trips.~~

Comment 8) TIER 1 - UTILITIES: Identify projected water, sewer and solid waste demand for the project. Must provide documentation from Public Services, or Broward County as applicable, stating capacity is available to meet the projected demands prior to public hearing. 2x requested.

Response 8) ***These letters have been provided to the City and are submitted with this resubmittal.***

~~Comment 9) IMPACT FEES: Impact fees that will be required for the project are required at time of building permit issuance.~~

Comment 10) SIGNS: Provide copy of all signs for compliance review. Provide proposed square footage of building identifications sign to insure compliance.

- ~~Provide dimensions of maximum tenant signage.~~
- ~~Provide detail of any proposed monument and/or directional signage proposed.~~
- The proposed DDG does not identify any regulations regarding Building identification signage. Therefore, any building identification signage proposed will be reviewed against the City's LDC.
- No dimensions are provided for the proposed building identification signage on Sheet Sign. Provide proposed dimensions to ensure compliance.

Response 10) ***Please see updated language in the DDGs. Please see signage plan in resubmittal. The language of the DDGs diverts us to code unless otherwise noted in the DDGs. Building Identification maximum percentage is already addressed in the DDGs.***

Comment 11) The proximity to the airport will be required FAA/BCAD review and approval. Contact William Castillo, Airport Planner with Broward County Aviation Department, located at 2200 SW 45 Street, Suite 101, Dania Beach, FL 33315, (954) 359-6100. 2x requested.

Response 11) ***This is in process and will be provide to the City at time of building permit.***

Comment 12) TIER 1 - PARKING: Per the proposed DDG, Section (9) provides Off-Street Parking Ration but Sheet C-100 utilizes Shared Parking provisions per the City's LDC. Clarify which regulations the project will be using. ~~States parking ration per LDC, Section 265-50, which requires parking based on number of bedrooms. Provide parking calculations on site plan identifying the different requirements for each unit type to ensure compliance.~~

- When calculation Share Parking, unclear where Base Line Provisions/Gross Demand numbers come from. Provide clarification.

Response 12) ***The parking requirements are now clearly provided in the DDGs and the site plan has been updated accordingly to clear up the confusion. The relevant Code sections are now referenced within the DDGs. Warranted parking ratios are based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All parking required for this establishment is met by the required ratios within the DDGs and on the Site Plan.***

~~Comment 13) LOADING: Provide dimensions to ensure compliance.~~

Comment 14) TIER 1 - USE: ~~Density?~~ Proposed density exceeds High Rise units available in the RAC. Conversion is required prior to public hearing.

Response 14) ***The conversion request was made by the City and is in process, per email from Corinne Lajoie.***

Comment 15) Provide minimum bicycle parking requirements identified in Section 265- 51. ~~Must confirm required parking is met before bike compliance can be determined.~~ Break down parking requirement for residential and non-residential to calculate required bicycle parking. 2x requested.

Response 15) ***This is now provided on the site plan. Requirement for such is in the DDGs.***

~~Comment 16) ROOFTOP MECHANICAL EQUIPMENT: Must meet regulations in~~

~~Section 220-60. Identify how equipment will be screened from view. Identify on plans.~~

~~Comment 17)~~ ~~COST RECOVERY: per Article 685, cost recovery funds may be utilized for various costs of the city's administrative and outside fee consultants for the processing and review of applications. Per City Attorney's request, please provide $5,000 cost recovery fee with next submittal. The cost recovery money can be returned if not utilized, or additional fees may be requested if addition fees are incurred.~~

Comment 18) PARK IMPACT FEES: Per Resolution No. 2015-071, $1,825.00 per Single Family/Townhouse dwelling, $1,364.00 per Multifamily Dwelling, $1,140.00 per Mobile Home must be paid for Recreation and Open Space Impact Fee at time of building permit issuance. Therefore, $433,200 (380X1140) is due at issuance of a building permit.

Response 18) ***Impact fees will be paid at time of permitting.***

Comment 19) RAC TRAFFIC IMPACT MITIGATION: Provide an analysis, signed and sealed by a certified engineer, identifying the amount of CRA mitigation for traffic impact due based on resolution No. 2014-049 which established a rate of $21.26 per p.m. peak hour trip. Kimley-Horn Traffic Impact Analysis dated 6/6/20 identifies 425 PM Peak Hour Trips. Kimley-Horn Transportation Mitigation Impact Fee Calculation dated 6/29/20 identifies 1,041 PM Peak ~~Hour Trips. Clarify.~~ It also identifies 747.56 "Adjusted # of Trips". Therefore, $22,131.66 (1041 x $21.26) is due for each prior to issuance of a building permit.

Response 19) ***Acknowledged. The RAC letter has been provided. The RAC letter is still consistent with the comment above and the latest approved traffic study by the City consultant.***

Comment 20) TIER 1 - Must upload latest revised set of plans on disk prior to going to public hearing.

Response 20) ***Acknowledged. This is now an electronic submittal. Hard copies of the site plan application documents have been provided to the City. A Disk has been provided to the City.***

~~Comment 21)~~ ~~For the purpose of evaluating flood and roadway conditions and mitigation related to the future development project, all topographic information will include LIDAR spot elevations within 150' of the~~

~~subject property boundaries.~~

Comment 22) TIER 1 - The applicant is encouraged to contact neighbors adjacent to, as well as condominiums and neighborhood associations to advise of this property. Please provide acknowledgement and/or documentation of any public outreach. 2 x requested.

Response 22) ***Applicant met with NW Byrd Pointe Civic Association on August 20, 2020. Eleanor of City of Dania Beach Community Development were present. Applicant will be having ongoing conversations with the Association and Residents.***

~~Comment 23) For any building 5-stories or greater, provide a shadow study identifying how adjacent properties will be affected overlaid on an aerial photo. Revise to show the entire shadow cast, especially to the east.~~

Comment 24) TIER 1 - Applicant must obtain a statement from the City Engineer saying that the traffic study/statement submitted by the applicant is complete and accepted prior to public hearing. 2 x requested.

Response 24) ***Email Approval was provided by Xavier Falconi, reviewer of the traffic, to Corinne Lajoie on 8/31/2020.***

Comment 25) TIER 1 - Applicant must obtain statement from City Engineer, stating that adequate water supply exists for this project. 2x requested.

Response 25) ***These letter have been received and provided to Corinne and with this resubmittal.***

Comment 26) For all projects resulting in buildout of the site, such that construction staging cannot occur on site, must obtain Staging Plan approval by the Community Development Director prior to issuance of a building permit. The Staging Plan must include, but is not limited to, location of equipment and material during construction.

Response 26) ***This will be provided at time of permitting.***

Comment 27) For all projects resulting in buildout of the site, such that construction staging cannot occur on site, the applicant must obtain Maintenance of Traffic Plan approval by the City Engineer for period of construction prior to issuance of a building permit.

Response 27) ***This will be provided at time of permitting.***

Comment 28) TIER 1 - Please e-mail resolution and legal description, prepared by an attorney, for development approval in word format to clajoie@daniabeachfl.gov four (4) weeks prior to public hearing.

Response 28) ***Resolution will be provide 4 weeks prior to commission hearing as requested at DRC Meeting.***

Comment 29) TIER 1 - Must provide mailing list and labels for property owners within 450' of the development site to Community Development, consistent with regulations identified in the City's Code of Ordinances, Chapter 28, Section 610-30. The labels are needed 30 days prior to public hearing, information must be no older than 60 days. The City will prepare and mail the notices.

Response 29) ***This was provided to the City on August 18th to Ibel Larios.***

~~Comment 30)~~ ~~Applicant must provide the results of a Municipal Lien Search Request from the Finance Department stating that there are not outstanding Code Violations or Liens on the property prior to the item being scheduled for a public hearing. The statement must be no older than 90 days prior to the public hearing date. Per Section 680-40, any property with outstanding Code Violations or Liens shall not be schedule for public hearing. The form is available on the City's Web site, cost $100 and takes 5 days to process.~~

Comment 31) TIER 1 - Per O-2017-022, for properties over an acre in size, the applicant must obtain and post property signs in accordance with the NEW City requirements. Please see the end of this document for guidelines.

Response 31) ***This has been provided as discussed during DRC on August 27th. Please provide the documentation for the signage and the applicant will post the signage by the appropriate posting date of September 29th for the October 13th Commission hearing.***

Comment 32) Per O-2017-027 & O-2018-019, commercial properties under construction are required to provide security to fencing with screening showing project rendering covering at least 75% of the length of the fence along an arterial or state right-of-way & 25% for local roads and must include name and intended use of the project, project rendering, project website address, and owner or agent, the telephone number for the owner or agent, and the name and an emergency contact telephone number of the general contractor. Provide screen detail with next submittal. 2 x requested.

Response 32) ***This will be provided at the necessary time.***

Comment 33) PUBLIC ART PROGRAM: Per O-2019-025, New development and redevelopment in non-residential, mixed-use and multi-family zoning districts shall provide fee for the creation, acquisition and installation of public art in the city.

a. Pay In-Lieu Public Art Fee: Pay one-half of one percent (0.5%) of the cost of the proposed development project, as an "in-lieu" public art fee, with a minimum payment of $5,000 and a maximum payment of
$250,000; or
b. Combination of In-Lieu Public Art Fee and Placement of Art on Site: Placement of art on the site of the development project, which shall have a minimum value of one-quarter of one percent (0.25%) of the cost of the proposed development project combined along with a one- quarter of one percent (0.25%) payment of an "in-lieu" public art fee. The owner shall provide documentation to the City that the art fee has been deposited into an escrow account for said purpose prior to the issuance of a building permit. Prior to placement on the development site, the art must be approved by the Community Services Director or designed and conform to the adopted public art guidelines.

Response 33) ***Applicant will comply with the ordinance at the appropriate time.***

~~Comment 34)~~ ~~Two parcels must submit two separate applications for site plan review.~~

~~Comment 35)~~ ~~Per Section 280-40 reduce light levels on east property line not to exceed 0.5 foot candle on the east property line. Extend light measurement for entire length of east property line.~~

~~Comment 36)~~ ~~Per Section 265-140(B) no column shall be located within 3' of the entrance of a parking space. Identify where in the proposed DDG this regulation is addressed.~~

~~Comment 37)~~ ~~Reduce intensity of the project as follows:~~

- ~~eliminating tandem parking in parking garage to provide single parking space instead of double~~
- ~~Reduce drive isles in parking garage to 22'~~
- ~~Remove1 floor of retail~~
- ~~Remove 3 floors of residential~~

~~2nd time requested~~

~~Comment 38) Sheet List table on Cover Sheet is incomplete. Revise accordingly.~~

~~Comment 39) Add landscaping to recreation deck.~~

~~Comment 40) Provide building elevation with materials identified.~~

Comment 41) See below regarding edits to the proposed Development Design Guidelines.

- ~~Page 4, "This cross-access easement is not intended to be a designed amenity such as a continuous boardwalk or waterfront feature.~~
- ~~Page 10 – provide clearer graphics so that the dimensions can be read.~~
- ~~Page 16 – reduce the maximum density allowed.~~
- ~~Page 17 – change Minimum Dania Beach Boulevard setback to 15', same as NW 1 Street.~~
- ~~Page 17 – "The District 1 buildings will be separated by the public right of way in Dania Beach Boulevard or potential future pedestrian area and setbacks identified in Section (5) above."~~
- ~~Page 17 – reduce the maximum building height.~~
- ~~Page 19 – "The operator must possess a valid city Certificate of Use, and local business tax receipt for a valet service."~~
- ~~Page 19 – "No excessive stacking shall exist when vehicles stacked for valet drop-off or puck-up extend into any drive aisle and impede the flow of routine traffic."~~
- ~~Page 21 – SITE LIGHTING – identify maximum light spillage of 0.5 foot candle when adjacent to residentially zoned or used land.~~
- ~~Page 22 – "Charging stations may be provided for a ***percentage*** of parking spaces within the garage." Identify what this maximum percentage is.~~
- ~~Page 22 – "Pedestrian areas along Bryan Road shall include canopy trees which provide shade and aesthetic enhancements without conflicting with vehicles or pedestrian movement, awning, balconies, paving or signage."~~
- ~~Page 23 – Exhibit 9 – change minimum width from "None" to match street section shown on page 10.~~
- ~~Page 25 – CITY OF DANIA BEACH REVIEW PROCESS – delete the 4 conditions. Should follow the Major/Minor deviations as identified in Section 340-40(D).~~
- Page 17 – (9) Change to read "… a minimum of 1 foot only. The application thereof is at the discretion of the Community Development Director."
- Page 18 – Exhibit 6, Bicycle Parking; must breakdown parking required for residential and non-residential to calculate required bicycle parking for project.

- Page 18 – "Service areas shall be located outside of a public roadway and where practical, off of private drives, and…"
- Page 23 – Sign and Design Standards (2) of the DDG provides no detail regarding Building Identification Signs. Failure to identify on DDG will result in the City's LDC regulations being applied.
- Add a section to DDG to discuss noise mitigation to protect residential neighborhood to the east.
- Provide strike-thru/underline version of DDG for staff review.

Response 41) ***These have all been addressed. Additionally, Building Identification maximum percentage is already addressed in the DDGs.***

Comment 42) Per section (10) of the proposed DDG, Valet Operator must possess a valid City issued Certificate of Use and BRT for the valet service prior to operation.

Response 42) ***The DDGs have been updated to reflect this.***

Comment 43) In "Robust Parking and Mobility Demand Management Plan, the following statement is made, "Valet Parking will count with 42 staging spaces for drop-off, 9 spaces for pick-up and 7 spaces for shared-ride operations." Clarify that this is true for each building, Wave 70 and Wave 90.

Response 43) ***This is true for both buildings. The Plans already show this distinction.***

Comment 44) Sheet A-3.00, clearly identify location of property line.

Response 44) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 45) TIER 1 – South building shows a 9'4" setback from west property line on Sheet A-300; Sheet C-100 shows 21.9' setback. Revise drawings and data table accordingly.

Response 45) ***All setbacks and property lines have been addressed in***

accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.

Comment 46) TIER 1 - North building shows a 9'4" setback from west property line on Sheet A-300; Sheet C-100 shows 21.9' setback. Revise drawings and data table accordingly.

Response 46) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 47) TIER 1 - South building shows a 12' setback from west property line on Sheet A-300; Sheet C-100 shows a 26' + setback. Revise drawings and data table accordingly.

Response 47) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 48) TIER 1 - Sheet A-300 Shows 12'11" setback from north property line; Sheet C-100 shows a 54.8' setback. Revise drawings and data table accordingly.

Response 48) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 49) TIER 1 - Sheet A-300 shows 12' setback from south property line; sheet C-100 shows 15' – 27.4'. Revise drawings and data table

accordingly.

Response 49) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 50) TIER 1 - Sheet A-300 shows 11'11" setback from east property line for north building; Sheet C-100 shows 11'7" to seawall not property line. Revise drawings and data table accordingly.

Response 50) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 51) TIER 1 - Sheet A-300 shows 12' setback from east property line for south building; Sheet C-100 shows 42.6' – 0'. Revise drawings and data table accordingly.

Response 51) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 52) TIER 1 - 13 doors are shown along east building elevation onto "Pedestrian Area". Identify noise mitigation methods proposed to reduce noise traveling to neighborhood to the east.

Response 52) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 53) The Master Development Plan on page 9 of the DDG shows a pedestrian cross access easement. Prepare easement language for the City Attorney's Office to review before recording it in Broward County Public Record. Must be reviewed and recorded prior to issuance of a building permit.

Response 53) ***This will be provided at time of permitting.***

Comment 54) On Sheet A-5.00 identify location of east and west property lines.

Response 54) ***All setbacks and property lines have been addressed in accordance with the requirements of the DDGs and these comments to clear up the confusion. Property Lines are now shown the applicable Arch sheets, but all dimensioned setbacks live on and are governed by the site plan to eliminate duplication of information and cause possible miscommunication of information.***

Comment 55) TIER 1 - Improvements are shown on land owned by SFWMD. Revise application to include SFWMD as property owner and signatures on the application.

Response 55) ***The building improvements are all located on property owned by the Applicant. The boardwalk areas will be permitted through SFWMD and will be finalized prior to building permit being issued for the canal boardwalk improvements. The permits from SFWMD can be a condition of the Resolution approving the site plan.***

Comment 56) Applicant indicates design to improve West Dania Beach Boulevard ROW as a park.

- Provide detail of proposed improvements.
- Identify how public will access the park.
- Additional parking for park may be required.
- Identify continuous pedestrian connection on east and west side of the project between the park and NW 2 Street bridge.
- Incorporate boat ramp for official public use only (not public).

Response 56)

- ***Applicant provided a conceptual plan showing the proposed park layout. A portion of the park is on right-of-way owned by Broward County and we have asked the City to begin the dialogue with the County to have that portion of the right-of-way transferred to the City so the City has***

permitting control over the proposed park improvements.

- ***The proposed park may be accessed via the boardwalk between the 90 and 70 Wave projects or by the sidewalk located along Bryan Road. It is not expected to be a park that people will drive to and require parking.***
- ***This is intended to be a passive park accessed by neighborhood or guests visiting the nearby developments.***
- ***A continuous pedestrian connection is provided via the boardwalk along the canal and the sidewalk along Bryan Road.***
- ***A boat ramp is not currently planned in the drawing as the canal is able to be accessed by officials at other locations in the vicinity. That said, the applicant will consider adding a boat ramp for official use after evaluating the financial and environmental impacts of an additional boat ramp.***

Comment 57) Parking Calculations: Proposed by DDG/SP LDC Requirements
Residential – 450.5
696 Commercial – 66.66
Office – 53.33
Restaurant – approx. 750
TOTAL REQUIRED = 1,321

Response 57) ***The parking requirements are now clearly provided in the DDGs and the site plan has been updated accordingly to clear up the confusion. The relevant Code sections are now referenced within the DDGs. Warranted parking ratios are based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All parking required for this establishment is met by the required ratios within the DDGs and on the Site Plan.***

Notes:

- *Application fee pays for only 2 reviews of the project. Additional review by staff will require additional payment.*
    - ***Per conversation with City. Our application fee has been calculated as consistent with email on date 6-15-2020 as well as the review process starting back at review 1 as the initial review as considered incomplete due to COVID-19. Per coordination with Corinne LaJoie on 6/15/2020, it was agreed that the site plan fees initially paid for***

the site plan applications was more than the amount required to separate the site plan. Any excess funds would be moved to cost recovery and returned to the developer if not needed.

- *Continuous and on-going site inspections will be conducted by staff throughout the entire building process.*
  - ***Acknowledged.***
- *FLOOD PLAN: Finished floor elevations, per Article 220-10(C) All structures shall be constructed with a lowest FFE of at least 1 foot above the 100-year flood elevation. Identify on plans.*
  - ***Acknowledged. See previous response to comments.***
- *Prior to submittal of a building permit, please contact the Building Official (954-924- 6085 X3650 to schedule a pre-application meeting.*
  - ***Acknowledged.***
- IMPACT FEES: Impact Fees that will be required for the project are required at time of building permit issuance.

Should you have any additional questions please do not hesitate to contact me at (772) 794- 4110.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

Jacob Lawson, P.E

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

August 10, 2020

Jacob B. Lawson, P.E. Associate/Project Manager
Kimley Horn
445 24th Street Suite 200
Vero Beach, FL 32960

RE: Water, Sewer, and Reclaimed Water Capacity Inquiry 70 Wave project

Dear Mr. Lawson;

Per your request, we have evaluated water and sewer services for the 70 Wave project. Water and sewer demands are indicated to be 122,880 GPD (gallon per day) for each building.

Our review determined that the city currently has the capacity to provide water and sewer services for the development mentioned above. **The city will reserve 122,880 GPD for this development upon the payment of the impact fees.** This determination has been made based on the following:

- The city's water treatment plant capacity is 5.04 MGD, while demands average is 2.3 MGD
- Raw Water supplies are 2.58 MGD at present, with demands of 2.3 MGD
- High service pumping capacity is 12.5 MGD
- A 12-inch water main is adjacent to this development. The developer must perform a fire hydrant test and provide the results to the city to verify sufficient capacity in this main. The developer will be responsible for looping if needed.
- Wastewater service is available via force main adjacent to this development. The city has adequate capacity in the Hollywood treatment plant for processing the wastewater.
- You have proposed an onsite lift station instead of connecting a gravity main across Bryan Road. Since the lift station will only serve this development, the developer must retain the ownership and maintenance responsibilities for the lift station.
- Please evaluate the 4-inch sewer force main as this may be limiting. You will also need to model the force main system to ensure your system can pump into the force main without impacting other customers. If your project affects other customers, you will be responsible for pump upgrades for lift station 8.
- Reclaimed water is not available in the city.
- You will need an appropriately sized meter (upon which the impact fees are based on commercial units), as verified by plumbing calculations.

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

WATER METER SIZE	METER TYPE	MAXIMUM FIXTURE UNITS	PEAK MAXIMUM VOLUME-AWWA
5/8-3/4	Displacement	25	20 GPM
1	Displacement	45	50
1.5	Displacement	100	100
2	Compound	225	160
3	Compound	500	320
4	Compound	750	500
6	Compound		1000
8	Compound		1600
10	Turbine		2900
12	Turbine		4300

NOTE: No irrigation demands were submitted as a part of the request. The city is no longer issuing irrigation meters due to limitations on raw water supplies. Irrigation demands need to be met with customer-provided irrigation wells, or Florida friendly plants that require no irrigation.

If needed, cost-recovery for city procured engineering review services will be charged for review, inspection, and other required items to provide utilities and engineering related services.

Should you have any questions, please feel free to contact me.

Sincerely,

D.A.Ozaydin

Dincer Ozaydin, Deputy Public Services Director/City Engineer

CC: Fernando Rodriguez, Public Services Director
Eleanor Norena, Community Development Director
Corrine LaJoie, Assistant Community Development Director
Darren Greene, Utility Manager

AVIATION DEPARTMENT - Fort Lauderdale-Hollywood International Airport
2200 SW 45th Street, Suite 101 • Dania Beach, Florida 33312 • 954-359-6100

September 1, 2020

Eleanor Norena, Community Development Director
City of Dania Beach
100 West Dania Beach Blvd
Dania Beach, FL 33004

RE: 90 Wave
50 S Bryan Rd, 70 S Bryan Rd, and 90 N Bryan Rd, Dania Beach, FL
Broward County Aviation Department (BCAD) Conditional Approval Letter

Dear Ms. Norena:

The Broward County Aviation Department (BCAD) has reviewed the proposed 90 Wave site plan located south of Fort Lauderdale-Hollywood International Airport (FLL) at 50 S Bryan Road, 70 S Bryan Road, and 90 N Bryan Road. Since the proposed project is within 20,000 feet of FLL, its development and operation is subject to Federal Aviation Regulation (FAR) Part 77, Florida Statutes Chapter 333 and/or the Broward County Airport Zoning Ordinance. These standards seek to ensure that any proposed construction, use of high lift equipment, such as cranes, or other potential hazards will not negatively impact the safe and efficient use of the airport and surrounding airspace. Taking into consideration the proximity of this project to FLL, BCAD is providing the following comments regarding the proposed development:

- Based on the location of the proposed project, FAR Part 77- Subpart B and Section 5-182(n)(2) of the Broward County Land Development Code, require the applicant to obtain a "Determination of No Hazard to Air Navigation" from the Federal Aviation Administration (FAA). ***The receipt of a favorable determination from the FAA is required for all critical building points and temporary construction cranes and must be received prior to any construction activity.*** The Federal Review (FAA 7460-1) process can be initiated at the following web address: https://oeaaa.faa.gov/oeaaa/external/portal.jsp

- **BCAD has determined that the proposed development penetrates FAA controlled air space (Part 77, Horizontal Plane) and shall comply with FAA obstruction standards.**

- No building, structure or vegetation on the site may exceed the ***maximum height of 225 feet (AMSL)*** as shown on Elevation Sheets A-4.00, A-4.01, A-4.02, and A-4.03 (dated 8/15/2020) and the 90 Wave Coordinates Exh-1 (dated 8/15/2020) unless submitted to BCAD for additional review.

- The proposed development must not generate light, glare, smoke or other emissions that could be disorienting to pilots operating in the vicinity of the airfield.

Adherence to these conditions is required for BCAD approval of the 90 Wave site plan located at 50 S Bryan Road, 70 S Bryan Road, and 90 N Bryan Road and it is based on the following documents submitted by the applicant:

- Elevations Sheets A-4.00, A-4.01, A-4.02, and A-4.03 prepared by Nichols, Brosch, Wurst, Wolfe & Associates, Inc. (dated 8/15/2020)
- Site Plan sheet C-100 prepared by Kimley-Horn and Associates, Inc (dated 7/2/2020)
- 90 Wave Coordinates Exh-1 prepared by Nichols, Brosch, Wurst, Wolfe & Associates, Inc. (dated 8/15/2020)
- ALTA Survey 90 N. Bryan Road prepared by Gary B. Castel (dated 12/31/2019)

If the proposed plans are revised substantially from those submitted for this review, BCAD requests that the revised development plans be submitted for an additional review.

This letter serves as notice of potential aircraft overflight and noise impacts on this property due to its proximity to the Fort Lauderdale/Hollywood International Airport. This property is subject to the overflight and associated noise of arriving and departing aircraft during the course of normal airport operations. Individuals sensitive to such events should satisfy themselves before purchasing this property that such exposure to aircraft overflights and the noise associated therewith will not adversely affect their enjoyment of the property.

This letter serves as notice to prospective purchasers of parcels within the property that, pursuant to Broward County Ordinance 2006-37 and consistent with the Federal Aviation Administration's "Change in FAA's Noise Mitigation Policy," effective October 1, 1998, the County will only provide noise mitigation for existing "incompatible development" and not for new incompatible development. The determination of "compatible" and "incompatible development" will be based on the County's most current Federal Aviation Administration ("FAA") approved Noise Exposure Map and the Airport's most current noise compatibility program which has been reviewed and approved by the FAA for the Airport. The applicant should note that the project is not eligible for federal funding to mitigate aircraft noise.

Please do not hesitate to contact me if you have questions or require additional information at 954.595.0809

Sincerely,

Karen Friedman
BCAD Aviation Senior Planner

cc: Michael P. Pacitto, P.G., Director Planning and Environmental
William Castillo, BCAD Aviation Planning Manager
Jacob.Lawson@kimley-horn.com, NChakas@lochrielaw.com, flylally@aol.com, pbusteed@nbww.com

The School Board of Broward County, Florida

PRELIMINARY SCHOOL CAPACITY AVAILABILITY DETERMINATION

SITE PLAN

SBBC-2923-2020

County Number: Municipality Number: SP-024-20

70 WAVE

August 19, 2020

Growth Management
Facility Planning and Real Estate Department
600 SE 3rd Avenue, 8th Floor
Fort Lauderdale, Florida 33301
Tel: (754) 321-2177 Fax: (754) 321-2179
www.browardschools.com

PRELIMINARY SCHOOL CAPACITY AVAILABILITY DETERMINATION
SITE PLAN

PROJECT INFORMATION	NUMBER & TYPE OF PROPOSED UNITS		OTHER PROPOSED USES	STUDENT IMPACT	
Date: August 19, 2020	Single-Family:			Elementary:	4
Name: 70 WAVE	Townhouse:				
SBBC Project Number: SBBC-2923-2020	Garden Apartments:			Middle:	2
County Project Number:	Mid-Rise:				
Municipality Project Number: SP-024-20	High-Rise:	380		High:	2
Owner/Developer: NV Marina Holding LLC & RJ Marina Holdings	Mobile Home:				
Jurisdiction: City of Dania Beach	Total:	380		Total:	8

SHORT RANGE - 5-YEAR IMPACT

Currently Assigned Schools	Gross Capacity	LOS * Capacity	Benchmark** Enrollment	Over/Under LOS	Classroom Equivalent Needed to Meet LOS	% of LOS*** Capacity	Cumulative Reserved Seats
Collins	371	408	346	-62	-2	89.2%	18
Olsen	1,125	1,238	657	-581	-26	54.0%	11
Hollywood Hills	2,667	2,667	1,967	-471	-30	73.9%	5

Currently Assigned Schools	Adjusted Benchmark	Over/Under LOS-Adj. Benchmark Enrollment	% LOS Cap. Adj. Benchmark	Projected Enrollment				
				20/21	21/22	22/23	23/24	24/25
Collins	364	-44	89.2%	321	323	330	338	345
Olsen	668	-570	54%	667	678	682	691	689
Hollywood Hills	1,972	-695	73.9%	1,935	1,923	1,912	1,900	1,889

Students generated are based on the student generation rates contained in the currently adopted Broward County Land Development Code. Information contained herein is current as of the date of review.
A traditional cohort survival methodology is used to project school-by-school District traditional school enrollment out over the next five years, and a proportional share of charter school enrollment is used to project future charter school enrollment by school level Districtwide. For more information: http://www.broward.k12.fl.us/dsa/EnrollmentProj.shtml. The annual benchmark enrollment is taken on the Monday following Labor Day and is used to apply individual charter school enrollment impacts against school facility review processes.

*This number represents the higher of: 100% gross capacity or 110% permanent capacity. **The first Monday following Labor Day. ***Greater than 100% exceeds the adopted Level of Service (LOS).

CHARTER SCHOOL INFORMATION

Charter Schools within 2-mile radius	2019-20 Contract Permanent Capacity	2019-20 Benchmark Enrollment	Over/(Under)	Projected Enrollment		
				20/21	21/22	22/23
Avant Garde Academy	750	884	134	**884**	**884**	**884**
Avant Garde K-8 Broward	1.050	1.014	-36	**1.014**	**1.014**	**1.014**

PLANNED AND FUNDED CAPACITY ADDITIONS IN THE ADOPTED DISTRICT EDUCATIONAL FACILITIES PLAN

School(s)	Description of Improvements
Collins	There are no scheduled classroom additions in the Adopted DEFP that would increase the reflected FISH capacity of the school.
Olsen	There are no capacity additions scheduled in the ADEFP that will increase the reflected FISH capacity of the school.
Hollywood Hills	There are no scheduled classroom additions in the Adopted DEFP that would increase the reflected FISH capacity of the school.

Students generated are based on the student generation rates contained in the currently adopted Broward County Land Development Code. Information contained herein is current as of the date of review.
A traditional cohort survival methodology is used to project school-by-school District traditional school enrollment out over the next five years, and a proportional share of charter school enrollment is used to project future charter school enrollment by school level Districtwide. For more information: http://www.broward.k12.fl.us/dsa/EnrollmentProj.shtml. The benchmark enrollment count taken on the first Monday following Labor Day is used to apply individual charter school enrollment impacts against school facility review processes.

Comments

This site plan application proposes 380 high-rise units, which are anticipated to generate 8 (4 elementary, 2 middle and 2 high school) students. This project falls within the boundary of Land Use Plan Amendment (LUPA) LUPA PCT 09-5 for a Regional Activity Center (RAC) land use designation, which is subject to a Tri-Party Agreement between the City of Dania Beach, the School Board and the County. The City processed the LUPA, which encompassed a previous LAC and established a Regional Activity Center (RAC) land use designation; however, per the recorded Tri-Party Agreement, all residential units located within the original LAC boundary are bound by the Recorded Educational Mitigation Agreement and the requirements contained therein, including the payment of the student station costs. This project is outside the original LAC boundary and is therefore subject to public school concurrency requirements and payment of school impact fees.

Please be advised that this application was reviewed utilizing 2019/20 school year data because the current school year (2020/21) data will not be available until updates are made utilizing the Benchmark Day Enrollment Count. The school Concurrency Service Areas (CSA) serving the project site in the 2019/20 school year include Collins Elementary, Olsen Middle, and Hollywood Hills High Schools. Based on the Public School Concurrency Planning Document (PSCPD), all three schools are currently operating below the Level of Service Standard (LOS), which is established as the higher of: 100% gross capacity or 110% permanent capacity. Incorporating the cumulative students anticipated from this project and approved and vested developments anticipated to be built within the next three years (2019/20- 2021/22), these schools are expected to maintain their current status through the 2021/22 school year. Additionally, the school capacity or Florida Inventory of School Houses (FISH) for the impacted schools reflects compliance with the class size constitutional amendment.

In the 2019/20 school year, the charter schools located within a two-mile radius of the site and their associated data are depicted above. Students returning, attending or anticipated to attend charter schools are factored into the five-year student enrollment projections for District schools. Enrollment projections are adjusted for all elementary, middle and high schools impacted by a charter school until the charter school reaches full enrollment status.

To ensure maximum utilization of the impacted CSAs, the Board may utilize other options such as school boundary changes to accommodate students generated from developments in the County.

Capital Improvements scheduled in the currently Adopted District Educational Facilities Plan (DEFP), Fiscal Years 2019/20 to 2023/24 regarding pertinent impacted schools are depicted above.

Therefore, this application is determined to satisfy public school concurrency on the basis that adequate school capacity is anticipated to be available to support the residential development as currently proposed by the applicant. This preliminary determination shall be valid for 180 days for a maximum of 380 high-rise units and conditioned upon final approval by the applicable governmental body. As such, this preliminary determination will expire on February 14, 2021. This preliminary school concurrency determination shall be deemed to be void unless prior to the referenced expiration of the Preliminary School Capacity Availability Determination (SCAD), notification of final approval to the District has been provided and/or an extension of this Preliminary SCAD has been requested in writing and granted by the School District. Upon the District's receipt of sufficient evidence of final approval which shall specify at the minimum the number, type and bedroom mix for the approved residential units, the District will issue and provide a final SCAD letter for the approved units, which shall ratify and commence the vesting period for the approved residential project.

Please be advised that if a change is proposed to the development, which increases the number of students generated by the project, the additional students will not be considered vested for public school concurrency.

SBBC-2923-2020 Meets Public School Concurrency Requirements ☒ Yes ☐ No

Reviewed By:

8/19/2020

Date

Lisa Wight

Signature

Lisa Wight

Name

Planner

Title

70 Wave
SP-024-20

BROWARD COUNTY
Planning Council

August 26, 2020

Nectaria M. Chakas, Esquire
Lochrie & Chakas, P.A.
1401 East Broward Boulevard, Suite 303
Fort Lauderdale, Florida 33301

Dear Ms. Chakas:

Re: Platting requirements for a parcel legally described as Parcel A, "Clarke Subdivision," according to the Plat thereof, as recorded in Plat Book 101, Page 32, of the Public Records of Broward County, Florida; together with a portion of the Southeast ¼ of Section 33, Township 50 South, Range 42 East, said lands situate, lying and being in Broward County, Florida. This parcel is generally located on the east side of Bryan Road, between Northwest 1 Street and Stirling Road, in the City of Dania Beach.

This letter is in response to your correspondence regarding the Broward County Land Use Plan's platting requirements for a proposed mixed-use development on the above referenced parcel.

Regarding the proposed development located within the "Clark Subdivision," Planning Council staff has determined that replatting **would not be required** by Policy 2.13.1 of the Broward County Land Use Plan. Policy 2.13.1 would not require replatting of parcels included in plats approved by the Broward County Commission and recorded after June 4, 1953. Information from the Broward County Records, Taxes and Treasury Division indicates that the above referenced plat was recorded on February 5, 1979.

Regarding the unplatted portion of the proposed development (i.e. the Southeast ¼ of Section 33, Township 50 South, Range 42 East), Planning Council staff notes that platting **would be required** by Policy 2.13.1 of the Broward County Land Use Plan, if any portion of a proposed principal building is constructed on this portion of the subject site. Conversely, if the principal building(s) is constructed solely on the Clark Subdivision portion of the subject site, which is the portion of the subject property approved by the Broward County Commission and recorded after June 4, 1953, then platting would not be required.

Planning Council staff notes that although the entire development parcel is less than ten (10) acres, the unplatted portion of the subject parcel is a majority and does not meet any additional platting exemptions.

It is recommended that you contact Broward County's Planning and Development Management Division at 954-357-6666, regarding the platting process and/or to inquire about whether additional County review, such as a plat note modification, may be required. Further, some jurisdictions may be more restrictive and require platting in more situations than the Broward County Land Use Plan. The City of Dania Beach's platting requirements should be investigated.

The contents of this letter are not a judgment as to whether this development proposal complies with the Broward County Trafficways Plan, permitted uses and densities, local zoning, the land development regulations of the municipality or the development review requirements of the Broward County Land Use Plan, including concurrency requirements.

If you have any additional questions regarding the Broward County Land Use Plan's platting requirements, please contact Christina Evans, Planner, at your convenience.

Respectfully,

Barbara Blake Boy
Executive Director

BBB:CME

cc: Ana M. Garcia, ICMA-CM, City Manager
City of Dania Beach

Eleanor Norena, Director, Community Development Department
City of Dania Beach

CHOICE WASTE
THE CHOICE IS YOURS

CHOICE WASTE OF FLORIDA, INC.

A PREMIER COMPANY

9/2/2020

Attn: Jacob B. Lawson
c/o Kimley-Horn
445 24th Street-Suite 200
Vero Beach, Fl 32960

Re: 70 Wave -70 N. Bryan Road-Dania Beach, Fl and 90 Wave – 90 N. Bryan Road-Dania Beach, Fl

Hello Jacob,

We have reviewed the documentation provided by the applicant for both 70 Wave located at 70 N. Bryan Road-Dania Beach, Fl and 90 Wave located at 90 N. Bryan Road-Dania Beach, Fl and will confirm that based on the information provided can provide the full necessary services for the waste and recycle containers and services located at the above referenced locations once the facilities are completed and operational. Please feel free to contact me on my cell if needed at 954-448-8109 or at the office of 954-674-6074.

Respectfully Yours,

Gary F. Brugman
Executive Sales Manager

2805 EAST OAKLAND PARK BOULEVARD, SUITE #464
FORT LAUDERDALE, FLORIDA 33306
954.674.6074 | OFFICE@PWSFL.COM

Robust Parking & mobility demand management plan

The project consists of two parking decks with a total capacity for 699 vehicles located on the third and fourth levels. Although, self-parking spaces are provided, parking valet use will be strongly encouraged. Only 100 spaces (7% of the garage capacity) has been designated as "self-parking". Valet Parking operations are adopted with the objective of doing a more efficient use of the space, as well as, more effective operations timewise.

ADA spaces are provided for Accessible Vans and vehicles that have been modified to special needs and can only be operated by their owners.

Valet Operations: Drop-off and Pick up takes place on the third floor (First Parking Level). Customers are encouraged to drive into the building, up to the third floor, away from public roads, in a controlled environment. Once inside the building, the customer will find parking staging spaces exclusively for Valet drop-off and retrieval operations. This strategy allows for an organized way of handling large quantity of simultaneous events. Once parked the customer will hand the key to the operator and leave the garage. Valet operators will move the vehicles from the staging area to the valet parking spaces.

For retrieval of a vehicle, customer will be able to call in advance, in order to have his/her car ready upon arrival to the valet station, otherwise, will have to wait until operators retrieve the vehicle after station arrival, which, should not take more than 5 minutes in average operational conditions.

Valet Parking will count with 42 staging spaces for drop-off ,9 spaces for pick-up, and 7 spaces for shared-ride operations.

The project supports and encourages Shared mobility and is designed in a way that different systems can happen simultaneously. Self-Parking will be limited and clearly signalized to the east side of the garage. An Internal loop will circulate counterclockwise to allow pedestrians to walk safely to and from their vehicles when using Valet Parking. The same loop will be used by shared riders and service providers, taking all parking/riding activities away from the public realm in a safe and controlled environment.

Parking ratios are based on the purpose and intent of alternate parking standards described in Sec. 265-60 and the intent of the parking reductions for mixed use developments methodology described in Sec. 265-90 of the Dania Beach Land Development Code. Warranted parking ratios are also based both upon the unique characteristics of operation and location of the proposed use. Additionally, the parking ratios have been previously approved for two adjacent developments, one of which is in operation and the other for District 1 of the subject project Master Development Plan. All required parking for this establishment is met by the required ratios listed herein.

The development intends to implement and contribute to the Dania Beach Regional Activity Center purpose of "creating a compact work, live, shop and leisure environment that reduces transportation needs by combing uses and providing an attractive destination for tourists and local citizens", which is reflected in the parking ratios provided within the Development Design Guidelines (DDGs). The development is supportive of and promotes a "car-free" or "car-optional" lifestyle through a mixture of proximity to uses that fulfill daily needs (i.e. grocery, fitness, pharmacy, employment), increased supply of bicycle parking spaces, access to transit and ridesharing services, and a robust parking & mobility demand management plan. Through the management of parking, the development will provide the following off-street parking ratios:

Solid Waste Sanitation Management Plan

Solid Waste will be handled through a centralized system consisting of a gravity Chute with sorting capabilities to promote recycling. All Waste will be collected, sorted and compacted in a centralized, climate controlled, room into containers to be picked up by the waste management company hired for collection.

Restaurants, Retail, and Work/Live units will collect waste in designated smaller rooms using 1 cubic yard tilt carts that will be manually pushed throughout the building. Staff will collect the general waste from the point of origin in the 1 cubic yard tilt cart and once full they will take it to the Main Trash Room and deposit the waste into the trash compactor using a stationary cart tipper, specifically designed for the 1 cubic yard tilt carts. It is important to note that the swing height of the tipper operation can reach up to 15 feet, depending on the manufacturer. The applicant is providing a tipping height of 26 feet.

Arborist Report

Dania Beach Marina Redevelopment
Dania Beach, Florida

Prepared for:
Dania Beach Marina Corporation
90 North Bryan Road
Dania Beach, FL 33004

148823009
June 2020
© Kimley-Horn & Associates, Inc. 2020
1777 Main Street
Suite 200
Sarasota, FL 34236
941-379-7600

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Arborist Report

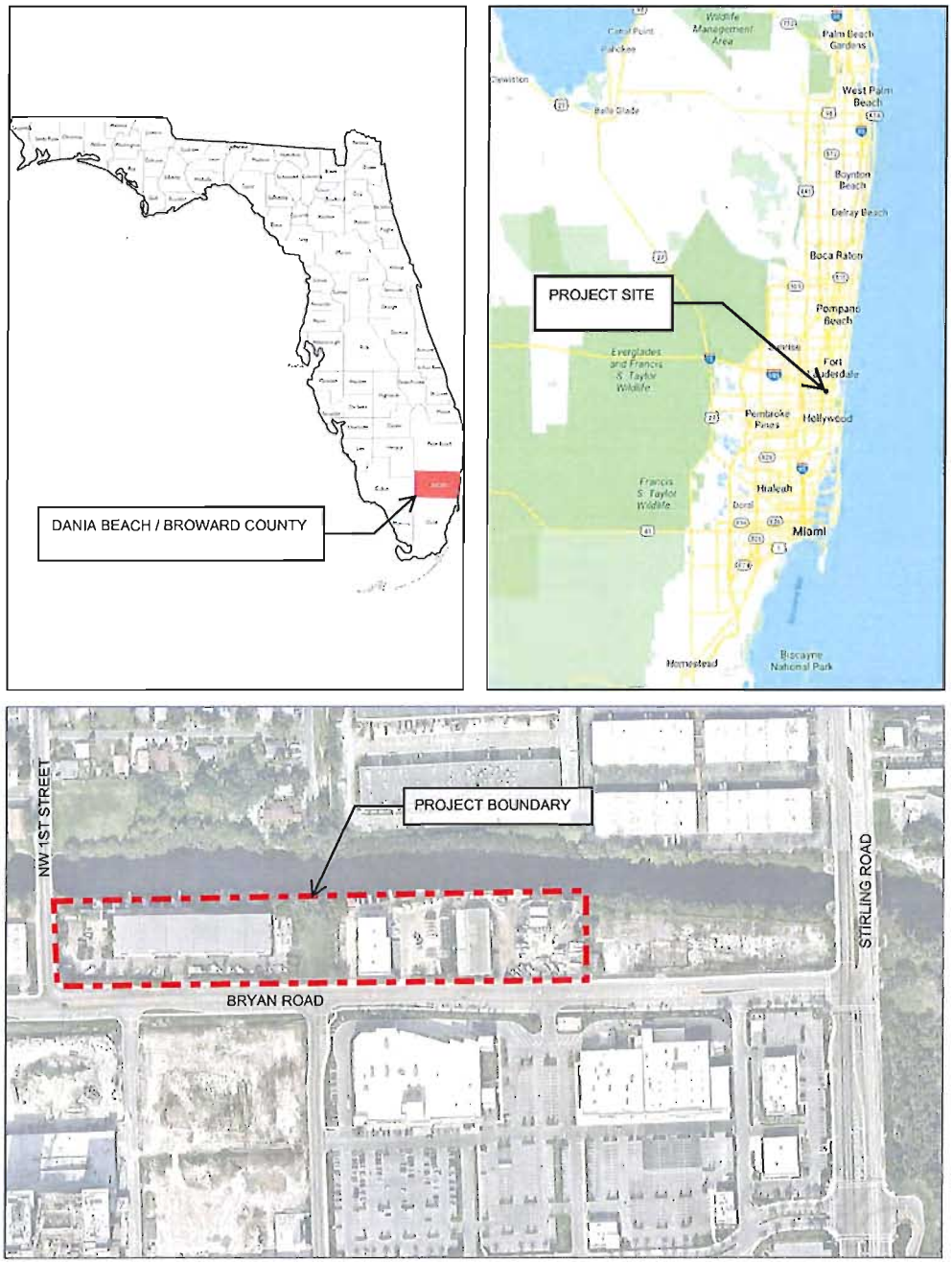
Dania Beach Marina Redevelopment
Dania Beach, Florida

1.0 INTRODUCTION

Kimley-Horn and Associates, Inc. has performed an observation of existing trees on the approximate 6± acre property located at 90 North Bryan Road, 70 and 50 South Bryan Road in the city of Dania Beach, Florida. A location map is attached as ***Figure 1.*** A certified arborist performed a field visit on June 16th and June 17th 2020 to observe and document the condition of existing trees and palms on the subject property. The observation data was performed and recorded per the Guide for Plant Appraisal, 10th Edition, as established by the Council of Tree and Landscape Appraisers (CTLA). Kimley-Hom used a "Tree Condition Evaluation Form" to determine the specific condition points for each physical attribute described below. Evaluations were based upon visual observations from the ground surface only. Based on these attributes a "Tree Condition Ranking" (Excellent, Good, Fair, Poor) was determined from the sum of the condition points, which consists of:

- Root structure and health (above ground visual observation)
- Trunk structure and health
- Scaffold branches structure and health
- Small branch and twig health
- Foliage and bud health

FIGURE 1: LOCATION MAP



2.0 GENERAL OBSERVATIONS

The subject property consists of mostly Sabal palm (*Sabal palmetto*), Live oak (*Quercus virginiana*), and Mahogany (*Swietenia mahagnoni*), with Green buttonwood (*Conocarpus erectus*), Gumbo-limbo (*Bursera simaruba*), Royal palm (*Roystonea regia*), Coconut palm (*Cocos* nucifera), Beautyleaf (*Calophyllum inophyllum*), Silver buttonwood (*Conocarpus erectus 'Sericeus'*), Bald cypress (*Taxodium distitchum*), Mexican fan palm (*Washingtonia robusta*) and Royal poinciana (*Delonix regia*) dispersed throughout the remainder of the site. In addition to the protected trees listed above, Red mangrove (*Rhizophora* mangle) buffers a large portion of the canal. Invasive species such as Brazilian pepper (*Schinus* terebinthifolia), Earleaf acacia (*Acacia auriculiformis*) and Tropical almond tree (*Terminalia catappa*) were observed along the North property line (adjacent to NW 1st Street) and the East property line (adjacent to the existing canal). Site photos are attached as ***Figure 3.***

The subject property is currently used for boat storage and maintenance, as well as a restaurant and bar along the canal. Most of the trees located within the parking and storage areas are distressed from compacted soils and observed nutrient deficiencies due to almost all the parking areas being compacted gravel. The property shows no signs of recent maintenance, with several trees exhibiting poor branching structure, broken limbs, and a few younger trees being uprooted or leaning. Several trees located along the canal or directly adjacent to impervious areas have exposed root systems or girdling roots. A few palms and trees growing adjacent to storage/parking areas were observed to have mechanical or vehicular damage to the trunks. Overall, the majority of existing palms on-site are in EXCELLENT or GOOD condition, whereas most of the existing trees on-site are in GOOD or FAIR condition. A Tree Condition Assessment is attached as ***Figure 2.***

FIGURE 2: TREE CONDITION ASSESSMENT

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1066	Sabal palm	18' CT	91%	Excellent	
1067	Sabal palm	7' CT	94%	Excellent	
1068	Tropical almond tree	4	91%	Excellent	Invasive 2
1076	Pigeon plum	12	69%	Fair	
1077	Silver buttonwood	8,4,4,3	66%	Fair	
1078	Silver buttonwood	4,4,4	66%	Fair	
1079	Pigeon plum	12	88%	Excellent	
1080	Silver buttonwood	4,4,4,3	63%	Fair	
1081	Sabal palm	20' CT	94%	Excellent	
1082	Sabal palm	20' CT	94%	Excellent	
1083	Sabal palm	20' CT	91%	Excellent	
1084	Sabal palm	26' CT	94%	Excellent	
1085	Sabal palm	20' CT	91%	Excellent	
1086	Sabal palm	20' CT	91%	Excellent	
1087	Live oak	10	75%	Good	
1088	Live oak	10	69%	Fair	
1089	Live oak	11	72%	Good	
1090	Silver buttonwood	3,3,3,3,3	66%	Fair	
1091	Sabal palm	30' CT	88%	Excellent	
1092	Sabal palm	22' CT	88%	Excellent	
1093	Sabal palm	14' CT	91%	Excellent	
1094	Live oak	10	75%	Good	
1095	Live oak	23	75%	Good	
1096	Live oak	20	66%	Fair	
1097	Sabal palm	20' CT	88%	Excellent	
1098	Sabal palm	18' CT	91%	Excellent	
1099	Sabal palm	16' CT	88%	Excellent	
1100	Live oak	8	66%	Fair	
1201	Live oak	10	63%	Fair	
1202	Live oak	8	78%	Good	
1203	Sabal palm	20' CT	91%	Excellent	
1204	Sabal palm	18' CT	91%	Excellent	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1205	Sabal palm	16' CT	91%	Excellent	
1206	Live oak	10	81%	Good	
1207	Live oak	13	84%	Good	
1208	Washingtonia palm	55' CT	97%	Excellent	Invasive 2
1209	Washingtonia palm	55' CT	97%	Excellent	Invasive 2
1210	Sabal palm	30' CT	81%	Good	
1211	Sabal palm	22' CT	88%	Excellent	
1212	Sabal palm	18' CT	84%	Good	
1213	Sabal palm	25' CT	91%	Excellent	
1214	Sabal palm	22' CT	91%	Excellent	
1215	Sabal palm	38' CT	91%	Excellent	
1216	Sabal palm	30' CT	91%	Excellent	
1217	Sabal palm	22' CT	91%	Excellent	
1218	Sabal palm	20' CT	91%	Excellent	
1219	Washingtonia palm	55' CT	100%	Excellent	Invasive 2
1220	Washingtonia palm	55' CT	100%	Excellent	Invasive 2
1221	Washingtonia palm	55' CT	75%	Good	Invasive 2
1222	Live oak	8	72%	Good	
1223	Live oak	8	69%	Fair	
1224	Sabal palm	12' CT	88%	Excellent	
1225	Sabal palm	14' CT	88%	Excellent	
1226	Sabal palm	16' CT	84%	Good	
1227	Sabal palm	18' CT	91%	Excellent	
1228	Sabal palm	20' CT	91%	Excellent	
1229	Sabal palm	24' CT	91%	Excellent	
1230	Sabal palm	30' CT	91%	Excellent	
1231	Sabal palm	20' CT	91%	Excellent	
1232	Sabal palm	18' CT	91%	Excellent	
1233	Live oak	10	72%	Good	
1234	Live oak	8	66%	Fair	
1235	Live oak	10	72%	Good	
1236	Sabal palm	16' CT	88%	Excellent	
1237	Sabal palm	16' CT	88%	Excellent	
1238	Sabal palm	22' CT	81%	Good	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1239	Sabal palm	16' CT	94%	Excellent	
1240	Sabal palm	20' CT	94%	Excellent	
1241	Sabal palm	28' CT	94%	Excellent	
1242	Gumbo-limbo	11	75%	Good	
1243	Gumbo-limbo	13	91%	Excellent	
1244	Gumbo-limbo	8	88%	Excellent	
1245	Gumbo-limbo	12	88%	Excellent	
1246	Gumbo-limbo	12	94%	Excellent	
1247	Gumbo-limbo	10	63%	Fair	
1248	Gumbo-limbo	13	81%	Good	
1249	Gumbo-limbo	8	75%	Good	
1250	Green buttonwood	7	66%	Fair	
1251	Royal poinciana	13	56%	Fair	Ganoderma fungus on trunk and lower limbs
1252	Green buttonwood	20	59%	Fair	
1253	Seagrape	6,6,4	63%	Fair	
1254	Live oak	6	81%	Good	
1255	Live oak	4	81%	Good	
1256	Live oak	3	81%	Good	
1257	Live oak	12	69%	Fair	
1258	Live oak	16	69%	Fair	
1259	Green buttonwood	8	66%	Fair	
1260	Green buttonwood	8	66%	Fair	
1261	Coconut palm	25' CT	97%	Excellent	Invasive 2
1262	Coconut palm	30' CT	97%	Excellent	Invasive 2
1263	Coconut palm	30' CT	97%	Excellent	Invasive 2
1264	Live oak	12	75%	Good	
1265	Live oak	5	75%	Good	
1266	Live oak	11	75%	Good	
1267	Sabal palm	6' CT	100%	Excellent	
1268	Gumbo-limbo	3	88%	Excellent	
1269	Gumbo-limbo	11	66%	Fair	
1270	Sabal palm	12' CT	91%	Excellent	
1271	Sabal palm	12' CT	91%	Excellent	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1272	Sabal palm	12' CT	91%	Excellent	
1273	Gumbo-limbo	10	56%	Fair	
1274	Beautyleaf	10	75%	Good	
1275	Green buttonwood	9	78%	Good	
1276	Green buttonwood	13	59%	Fair	
1277	Green buttonwood	18	72%	Good	
1278	Coconut palm	16' CT	91%	Excellent	Invasive 2
1279	Coconut palm	30' CT	94%	Excellent	Invasive 2
1280	Coconut palm	26' CT	94%	Excellent	Invasive 2
1281	Coconut palm	26' CT	94%	Excellent	Invasive 2
1282	Coconut palm	26' CT	97%	Excellent	Invasive 2
1283	Live oak	6	78%	Good	
1284	Live oak	5	69%	Fair	
1285	Live oak	4	75%	Good	
1286	Live oak	4	72%	Good	
1287	Sabal palm	6' CT	94%	Excellent	
1288	Live oak	4	72%	Good	
1289	Live oak	4	81%	Good	
1290	Live oak	4	81%	Good	
1291	Live oak	4	81%	Good	
1292	Live oak	4	81%	Good	
1293	Live oak	4	81%	Good	
1294	Silver buttonwood	5	66%	Fair	
1295	Silver buttonwood	3	66%	Fair	
1296	Sabal palm	18' CT	94%	Excellent	
1297	Sabal palm	18' CT	94%	Excellent	
1298	Sabal palm	18' CT	94%	Excellent	
1299	Earleaf acacia	9,3,7	72%	Good	Invasive 1
1300	Live oak	5	94%	Excellent	
1301	Sabal palm	16' CT	100%	Excellent	
1302	Piccabean palm	20' CT	100%	Excellent	
1303	Piccabean palm	20' CT	100%	Excellent	
1304	Sabal palm	10' CT	100%	Excellent	
1305	Sabal palm	10' CT	100%	Excellent	
1306	Sabal palm	10' CT	100%	Excellent	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1307	Sabal palm	10' CT	100%	Excellent	
1308	Mahogany	6	88%	Excellent	
1309	Mahogany	5	91%	Excellent	
1310	Mahogany	5	84%	Good	
1311	Mahogany	6	72%	Good	
1312	Mahogany	6	81%	Good	
1313	Mahogany	8	78%	Good	
1314	Sabal palm	14' CT	100%	Excellent	
1315	Sabal palm	14' CT	100%	Excellent	
1316	Sabal palm	14' CT	100%	Excellent	
1317	Mahogany	11	66%	Fair	
1318	Green buttonwood	13	72%	Good	
1319	Green buttonwood	9	72%	Good	
1320	Green buttonwood	9	72%	Good	
1321	Green buttonwood	11	69%	Fair	
1322	Green buttonwood	10	69%	Fair	
1323	Green buttonwood	8	66%	Fair	
1324	Green buttonwood	7	59%	Fair	
1325	Live oak	9	72%	Good	
1326	Sabal palm	16' CT	94%	Excellent	
1327	Bald cypress	3	72%	Good	
1328	Bald cypress	5	88%	Excellent	
1329	Bald cypress	3	88%	Excellent	
1330	Mahogany	8	84%	Good	
1331	Mahogany	8	72%	Good	
1332	Mahogany	8	75%	Good	
1333	Sabal palm	18' CT	100%	Excellent	
1334	Sabal palm	18' CT	100%	Excellent	
1335	Sabal palm	18' CT	100%	Excellent	
1336	Royal palm	24' GW	94%	Excellent	
1337	Royal palm	24' GW	94%	Excellent	
1338	Royal palm	24' GW	94%	Excellent	
1339	Royal palm	20' GW	94%	Excellent	
1340	Royal palm	24' GW	94%	Excellent	

Tree #	Species	Size (DBH)	Points	CTLA Condition Assessment	Notes
1341	Royal palm	14' GW	94%	Excellent	
1342	Royal palm	14' GW	72%	Good	
1343	Mahogany	4	84%	Good	
1344	Mahogany	4	91%	Excellent	
1345	Mahogany	4	88%	Excellent	
1346	Mahogany	4	59%	Fair	
1347	Mahogany	4	97%	Excellent	
1348	Mahogany	4	88%	Excellent	
1349	Mahogany	4	75%	Good	
1350	Sabal palm	26' CT	91%	Excellent	
1351	Sabal palm	20' CT	94%	Excellent	
1352	Mahogany	4	81%	Good	
1353	Mahogany	3	59%	Fair	
1354	Mahogany	4	100%	Excellent	
1355	Sabal palm	12' CT	84%	Good	
1356	Mahogany	4	100%	Excellent	
1357	Sabal palm	14' CT	94%	Excellent	
1358	Mahogany	4	84%	Good	
1359	Sabal palm	14' CT	94%	Excellent	
1360	Mahogany	3	72%	Good	
1361	Live oak	12	66%	Fair	
1362	Sabal palm	14' CT	94%	Excellent	
1363	Live oak	13	69%	Fair	
1364	Mahogany	3	97%	Excellent	
1365	Sabal palm	10' CT	94%	Excellent	
1366	Live oak	11	59%	Fair	
1367	Live oak	12	59%	Fair	

TREE #1066, #1067

TREE #1068

TREE #1076

TREE #1077, #1078

TREE #1079

Kimley»Horn

TREE #1080

TREE #1081, #1082, #1083

TREE #1084, #1085, #1086

TREE #1087

TREE #1088, #1089

TREE #1090

TREE #1091, #1092, #1093, #1094

TREE #1095, #1096

TREE #1097, #1098, #1099, #1100

TREE #1201

TREE #1202

TREE #1203, #1204, #1205

TREE #1206

TREE #1207

TREE #1208, #1209

TREE #1210, #1211, #1212

TREE #1213, #1214, #1215, #1216, #1217, #1218

TREE #1219, #1220, #1221

TREE #1222

TREE #1223

TREE #1224, #1225, #1226

TREE #1227, #1228, #1229, #1230, #1231, #1232

TREE #1233

TREE #1234, #1235

TREE #1236, #1237, #1238

TREE #1239, #1240, #1241

TREE #1242

Kimley»Horn

TREE #1243, #1244, #1245, #1246, #1247

TREE #1248

TREE #1249

TREE #1250

TREE #1251

Kimley»Horn

TREE #1252

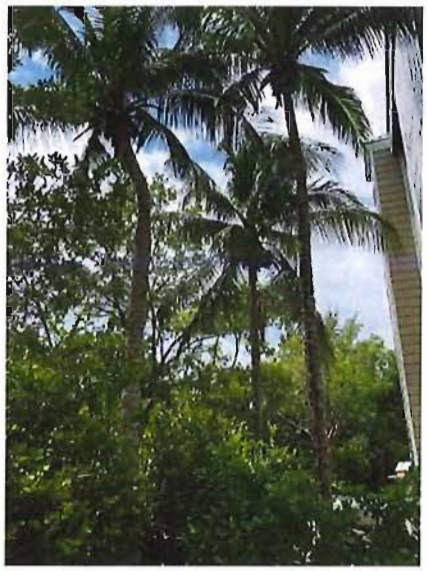
TREE #1253

TREE #1254, #1255, #1256, #1257

TREE #1258, #1259

TREE #1260

TREE #1261, #1262, #1263



TREE #1264, #1265, #1266, #1267

TREE #1268, #1269

Kimley»Horn

TREE #1270, #1271, #1272

TREE #1273, #1274

TREE #1275, #1276, #1277

TREE #1278, #1279, #1280, #1281, #1282

TREE #1283

TREE #1284, #1285

TREE #1286, #1287

TREE #1288, #1289

TREE #1290, #1291, #1292, #1293

TREE #1294, #1295, #1296, #1299

TREE #1297, #1298

Kimley»Horn

TREE #1300

TREE #1301

TREE #1302

TREE #1303

TREE #1304

TREE #1305, #1306, #1307

Kimley»Horn

TREE #1308

TREE #1309

TREE #1310, #1311, #1312, #1313

TREE #1314, #1315, #1316

TREE #1317

TREE #1318, #1319

TREE #1320, #1321

TREE #1322

TREE #1323

TREE #1324

Kimley»Horn

TREE #1325

TREE #1326

TREE #1327, #1328, #1329

TREE #1330

Kimley»Horn

TREE #1331

TREE #1332, #1333, #1334, #1335

TREE #1336, #1337, #1338, #1339, #1340, #1341, #1342

TREE #1343

TREE #1344

Kimley»Horn

TREE #1345

TREE #1346

TREE #1347

TREE #1348

TREE #1349, #1350, #1351

TREE #1352

TREE #1353

TREE #1354, #1355, #1356, #1357

TREE #1358, #1359

TREE #1360

TREE #1362

TREE #1361, #1362, #1363

TREE #1365

TREE #1366, #1367

4.0 TREE OBSERVATION DISCLAIMER

The only trees which were analyzed, observed, or considered are those trees specifically listed in this report. Unless specifically contracted to do so, this observation does not include a tree risk assessment. The field observations performed from the ground by Kimley-Horn for trees included within this report were considered only for signs and symptoms which were or are highly visible, as indicators of a stressed, declining, or risk trees. Defects which may exist underground, internally in the tree(s), or only visible from an aerial assessment could not and were not considered in this analysis. Trees subject to this report were analyzed from the ground and no aerial inspections were made. This report and analysis have been made using generally accepted arboriculture techniques which include a visual examination only. Reasonable efforts have been made to ensure that the trees recommended for retention are healthy; however, no guarantees are offered, or implied, that these trees, including branches, etc. will remain standing. It is professionally impossible to predict with absolute certainty the behavior of any tree or groups of trees in all given circumstances. The conclusions and analysis included within this report are valid as to the date of inspection only. Degradation and other risk factors affecting trees can and do occur at any time. Kimley-Horn affirms that the opinions have been made in total good faith, based on the facts presented during the field inspection. Problems not apparent upon visual inspection cannot be and were not noted. All trees of concern should be monitored on an annual basis or after a significant or adverse weather event for new or deteriorating conditions. All tree work shall be performed by a Certified Arborist with the International Society of Arboriculture.

Please do not hesitate to contact us with any questions or comments on this evaluation.

Sincerely,

Matthew Dunn, ISA CA

Florida Registration Numbers: FL-9326A

CA 00000696

K:\SAR_URG\147706000 - Dania Beach Marina\ARBORICULTURE\Arborist Report

CITY OF DANIA BEACH

Agenda Request Item

Type of Request: Resolution

Continued from: October 13, 2020

Requested Action (Identify appropriate Action or Motion)
ADOPT RESOLUTION APPROVING THE PLAT ENTITLED "WAVES AT DANIA BEACH" (PL-162-19), SUBMITTED BY DENI LAND SURVEYORS, INC., ON BEHALF OF NV MARINA HOLDINGS, LLC, AND RJ MARINA HOLDINGS, LLC, ("APPLICANT") FOR THE PROPERTY LOCATED AT 50 AND 70 S. BRYAN ROAD, DANIA BEACH, FLORIDA; THE LEGAL DESCRIPTION IS CONTAINED IN EXHIBIT"A", A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION

Purchasing Requests ONLY		
Dept:	Acct #:	Amt:
Fund:		

Fiscal Impact/Cost Summary

Exhibits Attached
CM PL-162-19 Wave 70 Plat, SR PL-162-19 Wave 70, R-2020- Waves at Dania Beach Plat (PL-162-19) NV Marina Holdings and RJ Marina Holdings, Wave 70 Plat OPT, Wave 70 (Location Map), Wave 70 Plat app & backup OPT

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
MEMORANDUM

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, Director
Corinne Lajoie, AICP, Assistant Director

Eleanor Norena
Digitally signed by Eleanor Norena
DN: cn=Eleanor Norena, o=City of Dania Beach, ou=Community Development, email=enorena@daniabeachfl.gov, c=US
Date: 2020.11.18 14:30:34 -05'00'

Corinne Lajoie
Digitally signed by Corinne Lajoie
DN: cn=Corinne Lajoie, o=City of Dania Beach, ou=Community Development, email=clajoie@daniabeachfl.gov, c=US
Date: 2020.11.16 15:27:52 -05'00'

SUBJECT: **PL-162-19:** The applicant, Mikki Ulrich/Deni Land Surveyors, on behalf of the property owner RJ Holdings LLC & NV Marina Holdings LLC, is requesting a plat approval for the property located at 50 and 70 Bryan Road.

Request

To plat the property allowing 380 high-rise dwelling units and 19,700 square feet of commercial use.

Background

This application has been reviewed by the Development Review Committee in November, 2019 and again in August, 2020. Additionally, a Site Plan application has also been submitted for this property which is being processed separately.

On October 13, 2020 the City Commission continued this item to allow the applicant time to resolve the adjacent North West Byrd Point residents' concerns.

Budgetary Impact

Approval of the plat will allow the opportunity for the redevelopment of the site.

Recommendation

Approve the plat application.

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT

DATE: December 8, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

VIA: Candido Sosa-Cruz, Assistant City Manager

BY: Eleanor Norena, CFM, Director
Corinne Lajoie, AICP, Assistance Director

SUBJECT: **PL-162-19:** The applicant, Mikki Ulrich/Deni Land Surveyors, on behalf of the property owner RJ Holdings LLC & NV Marina Holdings LLC, is requesting a plat approval for the property located at 50 & 70 Bryan Road.

Request

PLAT

To plat the property allow 380 high-rise dwelling units and 19,700 square feet of commercial use.

PROPERTY INFORMATION

EXISTING ZONING:	Planned Small Lot Mixed Use Development District (PMUD-SL)
LAND USE DESIGNATION:	Regional Activity Center (RAC)
SITE ACREAGE:	4.69 gross acres/3.04 net acres
EXISTING USE:	Marine sales
VIOLATIONS ON PROPERTY:	None

PUBLIC HEARING NOTICE

This item was duly advertised, posted, and noticed pursuant to Article 610 of the Land Development Code.

Background

PLAT

The applicant is requesting to plat the subject properties in preparation for a site plan development. The applicant is requesting to allow 380 high-rise dwelling units and 19,700 square feet of commercial space.

DEVELOPMENT REVIEW COMMITTEE (DRC)

This application has been reviewed by the Development Review Committee on November 27, 2019 and again on August 27, 2020. All DRC comments have been addressed.

Additionally, a Site Plan application has been submitted for this property which is being processed separately.

CITY COMMISSION PREVIOUS ACTION
On October 28, 2019 the City Commission changed the zoning on the property from Industrial, Research, Office, Marine (IROM) to Planned Small Lot Mixed-Use Development District (PMUD-SL).

On October 13, 2020 the City Commission continued this item to allow the applicant time to resolve the adjacent North West Byrd Point residents' concerns.

Recommendation
Approve the resolution.

RESOLUTION NO. 2020-128

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE PLAT ENTITLED "WAVES AT DANIA BEACH" (PL-162-19), SUBMITTED BY DENI LAND SURVEYORS, INC., ON BEHALF OF NV MARINA HOLDINGS, LLC, AND RJ MARINA HOLDINGS, LLC, ("APPLICANT") FOR THE PROPERTY LOCATED AT 50 AND 70 S. BRYAN ROAD, DANIA BEACH, FLORIDA; THE LEGAL DESCRIPTION IS CONTAINED IN EXHIBIT "A", A COPY OF WHICH IS ATTACHED TO THIS RESOLUTION; PROVIDING FOR CONFLICTS; AND FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, pursuant to Chapter 28 "Land Development Code" (the "LDC"), Part 6 "Development Review Procedures and Requirements," Article 640 "Plats," of the City of Dania Beach, (the "City") Code of Ordinances ("City Code"), Deni Land Surveyors, Inc., on behalf of RV Marina Holdings LLC and RJ Marina Holdings LLC (collectively, the "Applicant") has applied to the City for approval of a Plat (PL-162-19) entitled "WAVES AT DANIA BEACH", attached as Exhibit "B," for the property bearing the legal description contained in Exhibit "A"; and

WHEREAS, on November 27, 2019 and August 27, 2020, the City's Development Review Committee (the "DRC"), which includes representatives from the Broward Sheriff's Office, Broward Fire Department, Public Services Department, the City's landscape consultant and the Planning Division staff, reviewed the WAVES AT DANIA BEACH plat for compliance with all applicable regulations; and

WHEREAS, staff recommends approval of the Plat (PL-162-19); and

WHEREAS, the City Commission conducted a duly noticed public hearing on October 13, 2020, in accordance with Article 610 of the LDC; and

WHEREAS, the City Commission finds that the Plat (PL-162-19) request is consistent with the LDC and Comprehensive Plan;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA:

Section 1. That the foregoing "WHEREAS" clauses are ratified and confirmed as being true and correct and they are made a specific part of this Resolution.

Section 2. That this certain application for the "WAVES AT DANIA BEACH" plat (PL-162-19), a copy of which is attached as Exhibit "B," is approved with the no outstanding conditions.

Section 3. That the issuance of a development permit by a municipality does not in any way create any right on the part of an applicant to obtain a permit from a state or federal agency, and does not create any liability on the part of the municipality for issuance of the permit if the applicant fails to obtain requisite approvals or does not fulfill the obligations imposed by a state or federal agency, or undertakes actions that result in a violation of state or federal law.

Section 4. That all resolutions or parts of resolutions in conflict with this Resolution are repealed to the extent of such conflict.

Section 5. That this Resolution shall be in force and take effect immediately upon its passage and adoption.

PASSED AND ADOPTED on December 8, 2020.

ATTEST:

THOMAS SCHNEIDER, CMC CITY CLERK	TAMARA JAMES MAYOR

APPROVED AS TO FORM AND CORRECTNESS:

THOMAS J. ANSBRO
CITY ATTORNEY

EXHIBIT A

LEGAL DESCRIPTION

The South one-half of the Southwest one-quarter (SW ¼) of the Northwest one-quarter (NW ¼) of the Southeast one-quarter (SE ¼) of the Southeast one-quarter (SE ¼) of Section 33, Township 50 South, Range 42 East, Broward County, Florida, LESS all that portion lying Easterly lying Easterly of the following specifically described line:

Commencing at the NE corner of the SE ¼ of Section 33, Township 50 South, Range 42 East, bear South 87 degrees 26 minutes 41 seconds West, along the North line of said SE ¼ (centerline of NW 2nd Street) a distance of 1111.05 feet; thence South 0 degrees 42 minutes 30 seconds East, a distance of 1674.9 feet, more or less, to the intersection thereof with the North line of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ of said Section; thence North 87 degrees 31 minutes 28 seconds East, along said North line, a distance of 35.02 feet; thence South 0 degrees 42 minutes 30 seconds East, a distance of 150.0 feet; thence South 89 degrees 17 minutes 30 seconds West, a distance of 14.50 feet; thence South 2 degrees 54 minutes 17 seconds West to an intersection thereof with the North line of the S ½ of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ and the POINT OF BEGINNING; thence continue South 2 degrees 54 minutes 17 seconds West, a distance of 118 feet from the last point of deflection; thence North 87 degrees 05 minutes 43 seconds West, a distance of 20.0 feet; thence South 2 degrees 54 minutes 17 seconds West, a distance of 70 feet, more or less, to the intersection thereof with the South line of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ of said Section and the end of the specifically described line.

Also less the West 30.0 feet of the South Half (S ½) of the Southwest Quarter (SW ¼) of the Northwest Quarter (NW ¼) of the Southeast Quarter (SE ¼) of the Southeast Quarter (SE ¼) of Section 33, Township 50 South, Range 42 East.

Also LESS all that portion of the South 10.0 feet of the South Half (S ½) of the Southwest Quarter (SW ¼) of the Northwest Quarter (NW ¼) of the Southeast Quarter (SE ¼) of the Southeast Quarter (SE ¼) of Section 33, Township 50 South, Range 42 East, lying West of Central and Southern Florida Flood Control District Canal C-10 right of way.

AND

The North one-half (N ½) of the Southwest one-quarter (SW ¼) of the Northwest one-quarter (NW ¼) of the Southeast one-quarter (SE ¼) of the Southeast one-quarter (SE ¼) of Section 33, Township 50 South, Range 42 East, Broward County, Florida, LESS all that portion lying Easterly of the following specifically described line:

Commencing at the NE corner of the SE ¼ of Section 33, Township 50 South, Range 42 East, bear South 87 degrees 26 minutes 41 seconds West, along the North line of said SE ¼ (centerline of NW 2nd Street) a distance of 1111.05 feet; thence South 0 degrees 42 minutes 30 seconds East,

a distance of 1674.9 feet, more or less, to the intersection thereof with the North line of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ of said Section; thence North 87 degrees 31 minutes 28 seconds East, along said North line, a distance of 35.02 feet; thence South 0 degrees 42 minutes 30 seconds East, a distance of 150.0 feet; thence South 89 degrees 17 minutes 30 seconds West, a distance of 14.50 feet; thence South 2 degrees
54 minutes 17 seconds West to the intersection thereof with the South line of the North ½ of the SW ¼ of the NW ¼ of the SE ¼ of the SE ¼ of said Section and the end the specifically described line.

Also less the West 30.0 feet of the North Half (N ½) of the Southwest Quarter (SW ¼) of the Northwest Quarter (NW ¼) of the Southeast Quarter (SE ¼) of the Southeast Quarter (SE ¼) of Section 33, Township 50 South, Range 42 East.

AND

All that portion of the South 10.0 feet of the South Half (S ½) of the Southwest Quarter (SW ¼) of the Northwest Quarter (NW ¼) of the Southeast Quarter (SE ¼) of the Southeast Quarter (SE ¼) of Section 33, Township 50 South, Range 42 East, lying West of Central and Southern Florida Flood Control District Canal C-10 right of way.

TOGETHER WITH

A portion of the Southeast one-quarter (SE ¼)_ of Section 33, Township 50 South, Range 42 East, Broward County, Florida, being more particularly described as follows:

Commencing at the NE corner of the SE ¼ of Section 33, Township 50 South, Range 42 East; thence South 87^26'41" West (basis of bearings) along the North line of said SE ¼ (centerline of NW 2nd Street) a distance of 1111.05 feet; thence South 00^50'21" East, a distance of 1677.24 feet to the intersection thereof, with the North line of the Southwest ¼ of the Northwest ¼ of the Southeast ¼ of the Southeast ¼ of said Section; thence North 87^23'42" East, along said North line, a distance of 35.02 feet to the
POINT OF BEGINNING; thence continue North 87^23'42" East, a distance of 28.82 feet; thence South 01^58'30" East, a distance of 201.92 feet; thence South 15^11'27" West, a distance of 92.10 feet; thence South 04^24'06" West, a distance of 35.50 feet; thence South 87^25'33" West, a distance of 49.86 feet to a point on the existing Westerly right of way line of the Central and Southern Florida Flood Canal C-10 Canal right of way; thence North 02^46'39" East along the aforementioned Westerly right of way line, a distance of 59.99 feet; thence South 87^13'21" East along the aforementioned right of way line, a distance of 20.00 feet; thence North 02^46'39" East along the aforementioned right of way line, a distance of 118.00 feet; thence North 89^09'52" East along the aforementioned right of way line, a distance of 14.50 feet; thence North 00^50'08" West along the aforementioned right of way line, a distance of 150.00 feet to the POINT OF BEGINNING.

TOGETHER WITH:

Parcel A, CLARKE SUBDIVISION, according to the plat thereof, as recorded in Plat Book 101, Page 32 of the Public Records of Broward County, Florida.

TOGETHER WITH:

A parcel of land being located in the Southeast one-quarter (SE ¼) of Section 33, Township 50 South, Range 42 East, being more particularly described as follows:

Commence at the Southeast (SE) corner of said Section 33; thence North 01^17'46" West along the East line of said Section 33 for a distance of 1,340.78 feet; thence South 87^30'33" West for a distance of 1,118.51 feet to the Northeast (NE) corner of parcel of land described on Official Records Book 8775, Page 400 of the Public Records of Broward County, Florida; thence South 01^26'53" East along the East line of said parcel for a distance of 50.01 feet to the POINT OF BEGINNING; thence continue along the aforementioned line for a distance of 25.00 feet to the Southeast (SE) corner of said parcel (said point also being the Northeast corner of Parcel A of CLARKE SUBDIVISION, as recorded in Plat Book 101, Page 32 of the Public Records of Broward County, Florida; thence South 87^30'33" West along the South line of the aforementioned parcel (said line also being the North line of said CLARKE SUBDIVISION PLAT) for a distance of 186.10 feet to the Northwest corner of Parcel A of said plat; thence North 42^30'48" East, a distance of 35.36 feet; thence North 87^30'33" East along a line 25 feet North of and parallel with the North line of said CLARKE SUBDIVISION a distance of 161.55 feet to the POINT OF BEGINNING.

Said lands situate, lying and being in the City of Dania Beach, Broward County, Florida.

EXHIBIT B

See attached Plat

"WAVES AT DANIA BEACH"

A PORTION OF THE SOUTHEAST ONE QUARTER OF THE SOUTHEAST ONE QUARTER OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, AND A REPLAT OF PARCEL A, CLARKE SUBDIVISION (PB 101, PG 32, BCR), CITY OF DANIA BEACH, BROWARD COUNTY, FLORIDA.

DESCRIPTION:

The South one-half of the Southwest one-quarter (SW 1/4) of the Northwest one-quarter (NW 1/4) of the Southeast one-quarter (SE 1/4) of the Southeast one-quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, Broward County, Florida, LESS all of the portion lying Easterly of the following specifically described line:
Commencing at the NE corner of the SE 1/4 of Section 33, Township 50 South, Range 42 East, bear South 87 degrees 26 minutes 41 seconds West, along the North line of said SE 1/4 (centerline of NW 2nd Street) a distance of 1111.05 feet, thence South 0 degrees 43 minutes 30 seconds East, a distance of 1674.9 feet, more or less, to the intersection thereof with the North line of the SW 1/4 of the NW 1/4 of the SE 1/4 of the SE 1/4 of said Section, thence North 87 degrees 31 minutes 28 seconds East, along said North line, a distance of 35.02 feet, thence South 0 degrees 43 minutes 30 seconds East, a distance of 150.0 feet; thence South 89 degrees 17 minutes 30 seconds West, a distance of 14.50 feet; thence South 2 degrees 54 minutes 17 seconds West to the intersection thereof with the North line of the S 1/2 of the SW 1/4 of the NW 1/4 of the SE 1/4 of the SE 1/4 and the point of beginning; thence continue South 2 degrees 54 minutes 17 seconds West, a distance of 118 feet from the last point of deflection, thence North 87 degrees 05 minutes 43 seconds West, a distance of 20.0 feet; thence South 2 degrees 54 minutes 17 seconds West, a distance of 70 feet, more or less, to the intersection thereof with the South line of the SW 1/4 of the NW 1/4 of the SE 1/4 of the SE 1/4 of said Section and the end of the specifically described line.
Also LESS the West 30.0 feet of the South half (S 1/2) of the Southwest quarter (SW 1/4) of the Northwest quarter (NW 1/4) of the Southeast quarter (SE 1/4) of the Southeast quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East.
Also LESS all that portion of the South 10.0 feet of the South half (S 1/2) of th Southwest quarter (SW 1/4) of the Northwest quarter (NW 1/4) of the Southeast quarter (SE 1/4) of the Southeast quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, lying West of Central and Southern Florida Flood Control District Canal C-10 right of way.
AND
The North one-half (N 1/2) of the Southwest one-quarter (SW 1/4) of the Northwest one-quarter (NW 1/4) of the Southeast one-quarter (SE 1/4) of the Southeast one-quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, Broward County, Florida, LESS all of that portion lying Easterly of the following specifically described line:
Commencing at the NE corner of the SE 1/4 of Section 33, Township 50 South, Range 42 East, bear South 87 degrees 26 minutes 41 seconds West, along the North line of said SE 1/4 (centerline of NW 2nd Street), a distance of 1111.05 feet; thence South 0 degrees 43 minutes 30 seconds East, a distance of 1674.9 feet, more or less, to the intersection thereof with the North line of the SW 1/4 of the NW 1/4 of the SE 1/4 of the SE 1/4 of said Section, thence North 87 degrees 31 minutes 28 seconds East, along said North line, a distance of 35.02 feet to the POINT OF BEGINNING; thence South 0 degrees 42 minutes 30 seconds East, a distance of 150.0 feet, thence South 89 degrees 17 minutes 30 seconds West, a distance of 14.50 feet, thence South 2 degrees 54 minutes 17 seconds West to the intersection thereof with the South line of the North 1/2 of SW 1/4 of NW 1/4 of SE 1/4 of SE 1/4 of said Section and the end of the specifically described line.
Also LESS the West 30.0 feet of the North half (N 1/2) of the Southwest quarter (SW 1/4) of the Northwest quarter (N 1/4) of the Southeast quarter (SE 1/4) of the Southeast quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East.
AND
All that portion of the South 10.0 feet of the South half (S 1/2) of the Southwest quarter (SW 1/4) of the Northwest quarter (1/4) of the Southeast quarter (SE 1/4) of the Southeast quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, lying West of Central and Southern Florida Flood Control District Canal C-10 right of way.

DESCRIPTION: (CONTINUED)

TOGETHER WITH
A portion of the Southeast one-quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, Broward County, Florida, being more particularly described as follows:
Commencing at the NE corner of the SE 1/4 of Section 33, Township 50 South, Range 42 East, thence South 87°26'41" West (basis of bearings) along the North line of said SE 1/4 (centerline of NW 2nd Street) a distance of 1111.05 feet; thence South 00°50'21" East, a distance of 1677.24 feet to the intersection thereof with the North line of the Southwest 1/4 of the Northwest 1/4 of the Southeast 1/4 of said Section; thence North 87°33'42" East, along said North line, a distance of 35.02 feet to the POINT OF BEGINNING; thence continue North 87°33'42" East, a distance of 28.82 feet; thence South 01°58'30" East, a distance of 201.92 feet; thence South 15°11'27" West, a distance of 92.10 feet, thence South 04°34'06" West, a distance of 35.50 feet; thence South 87°25'33" West, a distance of 49.86 feet to a point on the existing Westerly right of way line of the Central and Southern Florida Flood Canal District C-10 Canal right of way; thence North 02°46'39" East along the aforementioned Westerly right of way line, a distance of 59.99 feet; thence South 87°13'21" East along the aforementioned right of way line, a distance of 20.00 feet, thence North 02°46'39" East along the aforementioned right of way line, a distance of 118.00 feet, thence North 89°09'52" East along the aforementioned right of way line, a distance of 14.50 feet, thence North 00°50'08" West along the aforementioned Westerly right of way, a distance of 150.00 feet to the POINT OF BEGINNING.
TOGETHER WITH,
Parcel A, of CLARKE SUBDIVISION, according to the plat thereof, as recorded in Plat Book 101, Page 32 of the Public Records of Broward County, Florida.
TOGETHER WITH:
A parcel of land being located in the Southeast one-quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, being more particularly described as follows:
Commence at the Southeast (SE) corner of said Section 33, thence North 01°17'46" West along the East line of said Section 33 for a distance of 1,340.78 feet, thence South 87°30'33" West for a distance of 1,118.51 feet to the Northeast (NE) corner of the parcel of land described in Official Records Book 8775, Page 300 of the Public Records of Broward County, Florida; thence South 01°25'53" East along the East line of said parcel for a distance of 50.01 feet to the POINT OF BEGINNING, thence continue along the aforesaid line for a distance of 25.00 feet to the Southeast (SE) corner of said parcel (said point also being the Northeast corner of Parcel A of CLARKE SUBDIVISION, as recorded in Plat Book 101, Page 32 of the Public Records of Broward County, Florida, thence South 87°30'33" West along the South line of the aforementioned parcel (said line also being the North line of said CLARKE SUBDIVISION Plat) for a distance of 186.10 feet to the Northwest corner of Parcel A of said plat, thence North 42°30'48" East, a distance of 36.36 feet, thence North 87°30'33" East along a line 25 feet North of and parallel with the North of said CLARKE SUBDIVISION a distance of 151.55 feet to the POINT OF BEGINNING
Said lands situate, lying and being in the City of Dania Beach, Broward County, Florida.

DEDICATION:

Know all men by these presents that RJ MARINA HOLDINGS, LLC, a Florida limited liability company and NV MARINA HOLDINGS, LLC, a Florida limited liability company, owners of the lands described hereon, have caused said lands to be Surveyed, Subdivided and Platted in the manner shown hereon. Said plat to be known as "WAVES AT DANIA BEACH", a replat in the Southeast one quarter of Section 33, Township 50 South, Range 42 East.
Parcel RW shown hereon is dedicated to the public for proper purposes purposes.
All utility easements shown hereon are dedicated to the public for proper purposes.

IN WITNESS WHEREOF, RJ MARINA HOLDINGS LLC, a Florida limited liability company, set their hand and seal this _____ day of _____, 2020.

RJ MARINA HOLDINGS, LLC

_____ _____
Witness Print name — Michael M. Lally, Registered Agent

_____
Witness Print name

IN WITNESS WHEREOF, NV MARINA HOLDINGS LLC, a Florida limited liability company, set their hand and seal this _____ day of _____, 2020.

NV MARINA HOLDINGS, LLC

_____ _____
Witness Print name — Roger S. Moore, Manager

_____
Witness Print name

ACKNOWLEDGEMENT: STATE OF FLORIDA, COUNTY OF BROWARD S. S.

Before me personally appeared MICHAEL M. LALLY, as Registered Agent of RJ MARINA HOLDINGS, LLC, to me well known to be the person described in and who executed the foregoing dedication, personally appeared before me and acknowledged to and before me the foregoing instrument of dedication for the purposes therein expressed. He did not take an oath.

Witness my hand and seal this ____ day of _____, 2020.

_____
Notary Public

ACKNOWLEDGEMENT: STATE OF FLORIDA, COUNTY OF BROWARD S. S.

Before me personally appeared ROGER S MOORE, as Manager of NV MARINA HOLDINGS, LLC, to me well known to be the person described in and who executed the foregoing dedication, personally appeared before me and acknowledged to and before me the foregoing instrument of dedication for the purposes therein expressed. He did not take an oath.

Witness my hand and seal this ____ day of _____, 2020.

_____
Notary Public

CITY OF DANIA BEACH, STATE OF FLORIDA, COUNTY OF BROWARD, ENGINEERING DIVISION:

This plat has been approved and accepted for record this ____ day of _____, 2020.

By: _____
Dincer Olaydin
Public Works Deputy Director
Florida Professional Engineer
Registration No

CITY COMMISSION:

This is to certify that this Plat has been approved and accepted by the City of Dania Beach, State of Florida, County of Broward by Ordinance No _____ adopted this ____ day of _____, 2020

No building permits shall be issued for the construction, expansion and/or conversion of a building within this plat until such time as the developer provides this municipality with written confirmation from Broward County that all applicable concurrency/impact fees have been paid or are not due.

IN WITNESS WHEREOF: The said City Commission has caused these presents to be attested by its City Clerk and corporate seal of said City to be affixed this ____ day of _____, 2020.

By: _____
Tom Schneider, City Clerk

By _____
Lori Lewellen, Mayor

CITY OF DANIA BEACH COMMUNITY DEVELOPMENT DEPARTMENT:

This is to certify that this plat has been accepted and approved by the Community Development Department of the City of Dania Beach, Broward County, Florida

By: _____
Eleanor Moreno — Date

BROWARD COUNTY FINANCE AND ADMINISTRATIVE SERVICES DEPARTMENT COUNTY RECORDS DIVISION-MINUTES SECTION:

This is to certify that this plat complies with the provisions of Chapter 177, Florida Statutes, and was accepted for record this ____ day of _____, 20___

By: _____
Mayor - County Commission

By _____
Deputy

BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION:

This plat has been reviewed for conformity with Chapter 177, Part I, Florida Statutes, and is approved and accepted for record.

By: _____ Date
Alejandro S. Perez
Acting County Engineer
Florida Professional Engineer
Florida Registration Number 33217

By _____ Date
Robert P. Lodge, Jr.
Professional Surveyor and Mapper
Florida Registration Number 4030

BROWARD COUNTY PLANNING COUNCIL:

This is to certify that the Broward County Planning Council approved this plat subject to its compliance with the dedication of Rights-of-Way for traffic-ways this ____ day of _____, 20__

By: _____
Chairperson — Date

This plat complies with the approval of the Broward County Planning Council of the above date and is approved and accepted for record this ____ day of _____, 20____

By _____
Director or Designee

BROWARD COUNTY ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT:

This plat is hereby approved and accepted for record.

By: _____ Date
Director/Designee

SURVEYORS CERTIFICATE:

I hereby certify: That the attached plat is a true and correct representation of the lands recently surveyed, subdivided and platted under my responsible direction and supervision. That the survey data complies with the applicable requirements of Chapter 177, Florida Statutes, and with the applicable section of Chapter 5J-17.051, Florida Administrative Code. And further that the Permanent Reference Monuments (PRM'S) were set this ____ of _____, 20____, in accordance with Section 177.091 of said Chapter 177.

Dated this ____ of _____, 20____, in Broward County, Florida.

_____
Nikki M. Ulrich
Professional Surveyor and Mapper
Number 5053
State of Florida

City of Dania Beach seal | County Surveyor's seal | Surveyor's seal

Prepared By
DENI LAND SURVEYORS, INC.
1991 N.W. 35TH AVENUE, COCONUT CREEK, FLORIDA 33066 LB #7281
PHONE (954)973-7966 FAX (954)979-0343

November, 2019

000-MP-19

"WAVES AT DANIA BEACH"

PLAT BOOK _____ PAGE _____

SHEET 2 of 2

A PORTION OF THE SOUTHEAST ONE QUARTER OF THE SOUTHEAST ONE QUARTER OF SECTION 33, TOWNSHIP 50 SOUTH, RANGE 42 EAST, AND A REPLAT OF PARCEL A, CLARKE SUBDIVISION (PB 101, PG 32, BCR), CITY OF DANIA BEACH, BROWARD COUNTY, FLORIDA.

NOTES:

1. ⊙ PRM indicates Permanent Reference monument (6" round, 24" long concrete monument with aluminum disk stamped PRM, LB #7281), unless otherwise noted.

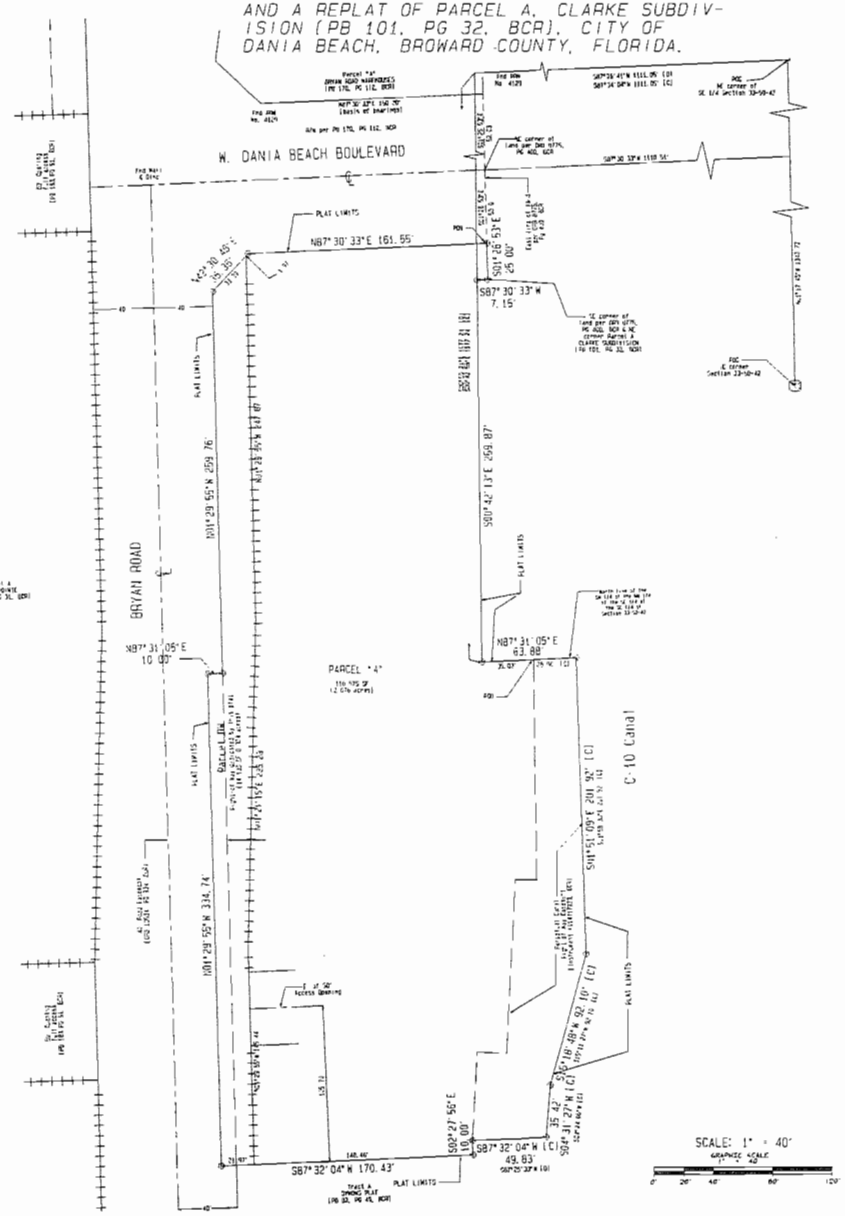
2. The bearing reference line is the South line of the SE 1/4 of Section 33-50-42. Said line bears South 87°34'11" West (per PB 103, PG 91, BCR)

3. NOTICE: This plat, as recorded in its graphic form, if the official depiction of the subdivided lands described herein and will in no circumstances be supplanted in authority by any other graphic or digital form of the plat. There may be additional restrictions that are not recorded on this plat that may be found in the public records of this County.

4. This plat is restricted to 380 high rise apartments AND 48,000 square feet of commercial use.

This note is required by Chapter 5, Article IX, Broward County Code of Ordinances and may be amended by approval of the Broward County Board of County Commissioners. The notation and any amendments thereto are solely indicating the approved development level for property located within the plat and do not operate as a restriction in favor of any property owner including an owner or owners of property within this plat who hold title to the property with reference to this plat. Any structure within this plat must comply with Section 201.7, Development Review Requirements, of the Broward County Land Use Plan, regarding hazards to air navigation.

5. The following note is required by the Broward County Surveyor pursuant to Chapter 177.091, subsection (29), Florida Statutes. Platted utility easements are also for the construction, installation, maintenance and operation of cable television services; provided, however, no such construction, installation, maintenance and operation of cable television services shall interfere with the facilities and services of electric, telephone, gas or other public utility. In the event a cable television company damages the facilities of a public utility, it shall be solely responsible for damages. This does not apply to private easements granted to or obtained by a particular electric, telephone, gas or other public utility. Such construction, installation, maintenance and operation shall comply with the National Electric Safety Code as adopted by the Florida Public Service Commission.



LOCATION SKETCH
(not to scale)

SCALE: 1" = 40'

LEGEND:
BCR = Broward County Records
C = Centerline
(C) = Calculated
(D) = Deed
DCR = Dade County Records
EA = Easement
ID = Identification
LB = Licensed Business
ORB = Official Records Book
(P) = Offset
PB = Plat Book
PG = Page
POB = Point of Beginning
POC = Point of Commencement
PRM = Permanent Reference Monument
R/W = Right-of-Way
SF = Square Feet/Foot
= Non-radial acorns line

Prepared By
DENI LAND SURVEYORS, INC.
1991 N.W. 35TH AVENUE, COCONUT CREEK, FLORIDA 33066
PHONE (954)973-7966 FAX (954)979-0343

November, 2019

000-MP-19

DENI LAND SURVEYORS, INC.

1991 NW 35TH AVE. • COCONUT CREEK, FL 33066 • PHONE (954) 973-7966
EMAIL: mikki1@bellsouth.net FAX (954) 979-0343

August 25, 2020

City of Dania Beach
Community Development Department
401 NW 70th Terrace
100 W. Dania Beach Boulevard
Dania Beach, FL 33004

RE: Waves at Dania Beach Plat (PL 162-19)

To Whom It May Concern,

Enclosed please a copy of the above referenced plat and related documents. The following revisions have been made per the comments from the City:

ENINGEERING

1. Clarify if utility easements to be dedicated to utility providers. Such easements shall be shown on the plat. The plat is being review by Broward County and will be reviewed by the utility providers. They will request easements if necessary. The easements will be dedicated on the plat is any are requested by the utility providers.
2. The canal easements shown are in conflict with the proposed improvement/development of the property. This will be addressed on the site plan.

ZONING

1. Tax receipts and lien searched are required for each parcel. Copy of the tax letter and lien searches are attached.
2. Broward County Trafficways Plat identifies Bryan as an 80' R/W. Therefore, a minimum 40' to the centerline must be dedicated. Dimensions and arrows have been added to show the 80' R/W.
3. Must provide mailing list and labels for property owners within 450'. The property owner has hired Cutro & Associates to prepare the notices. The mailing list and labels will be sent to the City by Cutro & Associates.
4. E-mail resolution and legal description, prepare by an attorney, for development approval. Resolution and legal description have been e-mailed to clajoie@daniabeachfl.gov.
5. Identify location of pedestrian cross access easement along the East side of the property. The property owner is requesting that this be addressed at the site plan review rather than on the plat.
6. Remove folio #5042-3300-0601 from the application. As it is owned by SFWMD. This folio has been removed from the application.

7. Remove Planning and Zoning Board signature block as the P&Z does not review plats. Planning & Zoning signature block has been removed.

Please review these revisions and let me if you need any additional revisions. Thank you for your assistance in this matter.

Yours truly,

Mikki H. Ulrich

Nicole Kesler

From: Nectaria Chakas
Sent: Monday, August 17, 2020 11:55 AM
To: Lajoie, Corinne
Cc: Michael Lally; Lawson, Jacob; Nicole Kesler
Subject: 70 S. Bryan Rd. Lien Search Results (70 Wave)

Corinne:
This the lien search results on 70 S. Bryan Rd which is part of the 70 Wave project.

Nectaria M. Chakas, Esq.
LOCHRIE & CHAKAS, P.A. | 954-779-1123

From: "Jelaso, Megan" <mjelaso@daniabeachfl.gov>
Date: Monday, August 17, 2020 at 11:44 AM
To: "Nectaria M. Chakas" <NChakas@lochrielaw.com>
Subject: City of Dania Beach - Lien Search

Good Morning,

Please find the below results for the address: 70 S Bryan Rd (folio – 5042-33-00-0600).

- Water – 52603-004 - $0 due with a $130 deposit
- Code Violation – None
- Open Building permits may exist on this property. Contact Building & Zoning 954-924-6800 Ext 3633
- Other Amounts – None
- Property As Reference is clear of liens placed by the City of Dania Beach – Yes

City hall is closed so we are working from home. We apologize for any inconvenience.

Have a Great Day

Megan Jelaso
Revenue Coordinator III | City of Dania Beach
mjelaso@daniabeachfl.gov | daniabeachfl.gov
100 W Dania Beach Blvd. | Dania Beach, FL 33004
Phone: 954-924-6800 ext. 3672 | **Fax:** 954-922-5619

Please note: Florida has a very broad public records law. Most written communications to or from City Officials regarding City business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure.

Nicole Kesler

From: Nectaria Chakas
Sent: Monday, August 17, 2020 11:57 AM
To: Lajoie, Corinne
Cc: Lawson, Jacob; Michael Lally; Nicole Kesler
Subject: 50 S. Bryan Road - Lien Search Results - 70 Wave project

This is the Lien Search Result for 50 S. Bryan Road which is part of 70 Wave project (the north portion of the development site).

Nectaria M. Chakas, Esq.
LOCHRIE & CHAKAS, P.A. | 954-779-1123

From: "Jelaso, Megan" <mjelaso@daniabeachfl.gov>
Date: Monday, August 17, 2020 at 11:46 AM
To: "Nectaria M. Chakas" <NChakas@lochrielaw.com>
Subject: City of Dania Beach - Lien Search

Good Morning,

Please find the below results for the address: 50 S Bryan Rd (folio – 5042-33-32-0110).

- Water – 600049-001 - $0 with a $640 deposit & 600050-001 - $0 with a $170 deposit
- Code Violation – None
- Open Building permits may exist on this property. Contact Building & Zoning 954-924-6800 Ext 3633
- Other Amounts – None
- Property As Reference is clear of liens placed by the City of Dania Beach – Yes

City hall is closed so we are working from home. We apologize for any inconvenience.

Have a Great Day

Megan Jelaso
Revenue Coordinator III | City of Dania Beach
mjelaso@daniabeachfl.gov | daniabeachfl.gov
100 W Dania Beach Blvd. | Dania Beach, FL 33004
Phone: 954-924-6800 ext. 3672 | **Fax:** 954-922-5619

Please note: Florida has a very broad public records law. Most written communications to or from City Officials regarding City business are public records available to the public and media upon request. Your e-mail communications may therefore be subject to public disclosure.

Finance and Administrative Services Department
RECORDS, TAXES, AND TREASURY DIVISION · Tax and License Section
115 S. Andrews Avenue, Room A 100 • Fort Lauderdale, Florida 33301 • 954-831-4000 • FAX 954-357-5483

August 17, 2020

CERTIFICATE OF TAXES PAID

RE: FOLIO # 504233-00-0611, 504233-0-0600, 504233-00-0601 & 504233-32-0010

"WAVES AT DANIA BEACH"

To whom it may concern:

This is to certify that a search of our records indicates all real estate taxes have been paid through the year 2019, for the above account.

There are no current outstanding property taxes owed for the property account referenced above.

Sincerely,

Tera Richardson
Records, Taxes & Treasury Division
115 S. Andrews Ave, Rm A100
Ft. Lauderdale, FL 33301
trichardson@broward.org
(954) 357-6232

24-20
62-19

PLAN
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AN ROAD
AN ROAD

FER
PROPERTY

BEACH
T. LOVE IT.

Feet
510 680

Lajoie, Corinne

From: Lawson, Jacob <Jacob.Lawson@kimley-horn.com>
Sent: Thursday, September 03, 2020 4:25 PM
To: Torres, Melissa
Cc: Dave Zipoli; Lajoie, Corinne; mikkiulrich93@gmail.com; Nectaria Chakas; Thuy Turner
Subject: RE: Waves at Dania Beach Plat (PL-162-19)

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Thank you, Melissa. That seems to clear up the issue of why it needed to go to fire. It seems she was confused or misread it.

Corinne, Fire did not have comments to address.

Thanks,

***Please note I will be out 9/4**

Jacob B. Lawson, P.E. (FL) Associate
Kimley-Horn | 445 24th Street, Suite 200, Vero Beach, FL 32960
Direct: 772 794 4110 | Main: 772 794 4100 | Mobile: 850 902 2942
Connect with us: Twitter | LinkedIn | Facebook | Instagram

Celebrating 13 years as one of FORTUNE's 100 Best Companies to Work For

-----Original Message-----
From: Torres, Melissa <Melissa_Torres@sheriff.org>
Sent: Thursday, September 3, 2020 4:22 PM
To: Lawson, Jacob <Jacob.Lawson@kimley-horn.com>
Cc: Zipoli, DAVID <DAVID_ZIPOLI@sheriff.org>
Subject: Re: Waves at Dania Beach Plat (PL-162-19)

Good afternoon,

On permit # PL-162-19. I stated the plan was not applicable (N/A) to fire. Mikki wrote back was not acceptable?

Thanks,

Melissa

From: Lawson, Jacob <Jacob.Lawson@kimley-horn.com>
Sent: Wednesday, September 2, 2020 5:04 PM
To: Mohammed Sharifuzzaman; Lajoie, Corinne; Torres, Melissa
Cc: mikkiulrich93@gmail.com; Mike Lally; Nectaria Chakas
Subject: RE: Waves at Dania Beach Plat (PL-162-19)

Lajoie, Corinne

From: Mohammed Sharifuzzaman <MSharifuzzaman@cgasolutions.com>
Sent: Wednesday, September 09, 2020 5:38 PM
To: Lajoie, Corinne
Cc: Larios, Ibel
Subject: RE: Wave 90 and Wave 70- Dania Beach Marina

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Corinne,

I have closed the issues for PL-162-19. Hope that will work. Also, once the plat is approved by Broward County, will they provide a copy or upload in CAP. If they do that would be great.

Thank you.

From: Lajoie, Corinne <clajoie@daniabeachfl.gov>
Sent: Wednesday, September 9, 2020 1:30 PM
To: Mohammed Sharifuzzaman <MSharifuzzaman@cgasolutions.com>; Larios, Ibel <ilarios@daniabeachfl.gov>
Cc: Bryan, Muriel <mbryan@daniabeachfl.gov>; Lorber, Richard <rlorber@daniabeachfl.gov>; Lawson, Jacob <Jacob.Lawson@kimley-horn.com>; Xavier Falconi <xfalconi@cgasolutions.com>
Subject: RE: Wave 90 and Wave 70- Dania Beach Marina

Did you also change your Tier 1 Plat comments to Tier 2?

From: Mohammed Sharifuzzaman [mailto:MSharifuzzaman@cgasolutions.com]
Sent: Wednesday, September 09, 2020 11:16 AM
To: Larios, Ibel
Cc: Lajoie, Corinne; Bryan, Muriel; Lorber, Richard; Lawson, Jacob; Xavier Falconi
Subject: Wave 90 and Wave 70- Dania Beach Marina

****CAUTION** This email has originated from outside this organization, so proceed with extra caution when communicating with the sender or opening any attachments.**

Ibel, Good morning. Attached are the Review Letters for Wave 90 and Wave 70.

Thank you.

Best regards,

Mohammed Sharifuzzaman, P.E.

cap government

Miami-Dade (Corporate) Office
343 Almeria Avenue
Coral Gables, FL 33134
Phone: 305.448.1711

Broward Office
100 SE 12th Street
Fort Lauderdale, FL 33316
Phone: 954.888.9882

Palm Beach Office
1910 North Florida Mango Road
West Palm Beach, FL 33409
Phone: 561.508.0615

PL-162-19 Waves at Dania Beach (Second Submittal)

Electronic Plan Review Results

Project Information

Phase Submittal: 25% Construction Documents
A/E:
Facility Name:
Plans Dated:
Project Name: PL-162-19 Waves at Dania Beach (Second Submittal)
Plans Received: 8/7/20
Project No: Waves at Dania Beach
Review Completed: 8/20/20
Building Code: FBC2017
Review Status: Review Disapproved.

Note that your project has been reviewed by DRC twice. Please coordinate with the Reviewer(s) corresponding to the discipline(s) for the remaining comments. This project cannot proceed to public hearing with outstanding Tier 1 comments remaining. You may find the Reviewers' email addresses below.
Please contact the Planner who reviewed your project for further information.
Note that if you opt to resubmit for the third time, a filing fee of a $1,000.00 will be required.

Project Description: Preparation of plat for new development

Plan Review Summary

Discipline	Status	Reviewer	Email	Phone	License
06) Engineering/Civil	Disapproved	Mohammed Sharifuzzaman	msharifuzzaman@cgasolutions.com	954-921-7781	PE67640
06) Engineering/Civil	Accepted_As_Noted	Xavier Falconi	xfalconi@cgasolutions.com	954-921-7781	
07) Fire		David Zipoli	David_Zipoli@sheriff.org	(954) 9262417	
07) Fire	Accepted_As_Noted	Melissa Torres	Melissa_Torres@sheriff.org	954-342-4262	
09) Zoning	Disapproved	Corinne Lajoie	clajoie@daniabeachfl.gov	954926805	

11) Flood Plain Review Pending

Plans and specifications review is performed in accordance with the Florida Building Code, Florida Statuses and all applicable codes.

Open Issues: 4

ENGINEERING

General Issues

1. Engineering Mandatory

Calvin, Giordano & Asso.
Mohammed Sharifuzzaman
8/17/20 2:59 PM
Express Workflow - 1 (Second Review, First EPR)

TIER 1 COMMENTS:

1. Clarify if utility easements to be dedicated to utility providers. Such easements shall be shown on the plat.
2. The canal easements shown on the plat are in conflict with proposed improvements/development (Wave 70) of the property.

Move to S.P. Comments.

2. Traffic Engineering Recommendation

Calvin, Giordano & Asso.
Xavier Falconi
8/17/20 5:49 PM
Express Workflow - 1 (Second Review, First EPR)

CITY OF DANIA BEACH
DEVELOPMENT REVIEW COMMENTS

Discipline:	Traffic Engineering
Reviewed by:	Xavier R. Falconi, PE
Review Date:	08/17/20
Phone:	(954) 766-2735
Fax:	(954) 921-8807
Project Name:	**PL-162-19 Waves at Dania Beach**
Project Number:	19-2777

Comments based on information provided for the August 2020 DRC meeting

	No comments
_____	Comments as follows or attached
	Accepted
___X___	Accepted with Comments

Comments in relation to this application have been provided as part of the Wave 70 and Wave 90 projects.

Fire

General Issues

3. Fire Mandatory

Broward Sheriff's Office - Dania Beach
Melissa Torres
8/18/20 9:16 AM
Express Workflow - 1 (Second Review, First EPR)

Plan Not Applicable to Fire

Zoning

General Issues

4. 2nd Zoning Review (Plat) Mandatory

City of Dania Beach
Corinne Lajoie
8/14/20 11:11 AM
Express Workflow - 1
(Second Review, First EPR)

Plat – PL-162-19
Zoning = PMUD-SL
FLU = RAC

1. **TIER 1 -** Section 640-20(l) requires tax receipts for all parcels with lien search report from the City's Finance Department stating there are no liens on the properties. Must be addressed prior to scheduling for public hearing. 2nd time requested.
2. **TIER 1** - Broward County Trafficway Plan identifies Bryan Road as an 80' ROW. Therefore, a minimum of 40' to centerline of road must be dedicated. Revise to reflect roadway measurement reflecting dedication. Must be addressed prior to scheduling for public hearing. 2nd time requested.
3. **TIER 1** - Must provide mailing list and labels for property owners within 450' of the development site to Community Development, consistent with regulations identified in the City's Code of Ordinances, Chapter 28, Section 610-30. The labels are needed 30 days prior to public hearing; information must be no older than 60 days. The City will prepare and mail the notices. Must be addressed prior to scheduling for public hearing.
4. **TIER 1** - E-mail resolution and legal description, prepared by an attorney, for development approval in word format to clajoie@daniabeachfl.gov four (4) weeks prior to public hearing.
5. Identify location of pedestrian cross access easement along east side of the property. 2nd time requested.
6. Remove folio number 5042-3300-0601 from the application, as it is owned by SFWMD.
7. Remove Planning and Zoning Board signature block as the P&Z does not review plats.

Closed Issues: 0

No closed Issues Found

AGENDA
COMMUNITY DEVELOPMENT DEPARTMENT
DEVELOPMEMT REVIEW COMMITTEE
WEDNESDAY, NOVEMBER 27, 2019

ANY PERSON WHO DECIDES TO APPEAL ANY DECISION MADE WITH REGARD TO ANY MATTER CONSIDERED AT THIS MEETING OR HEARING WILL NEED A RECORD OF THE PROCEEDINGS, AND FOR SUCH PURPOSE MAY NEED TO ENSURE THAT A VERBATIM RECORD OF THE PROCEEDINGS IS MADE WHICH RECORD INCLUDES THE TESTIMONY AND EVIDENCE UPON WHICH THE APPEAL IS TO BE BASED.

LOBBYIST REGISTRATION REQUIRED - REGISTRATION AS A LOBBYIST IN THE CITY OF DANIA BEACH IS REQUIRED IF ANY PERSON, FIRM OR CORPORATION IS BEING PAID TO LOBBY THE COMMISSION ON ANY PETITION OR ISSUE PURSUANT TO ORDINANCE NO. 01-93. REGISTRATION FORMS ARE AVAILABLE IN THE CITY CLERK'S OFFICE IN THE ADMINISTRATION CENTER.

IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT, PERSONS NEEDING ASSISTANCE TO PARTICIPATE IN ANY OF THESE PROCEEDINGS SHOULD CONTACT the CITY CLERK's office, 100 W. DANIA BEACH Boulevard, DANIA BEACH, FL 33004, (954) 924-6800 ext.3624, AT LEAST 48 HOURS PRIOR TO the MEETING.

IN CONSIDERATION OF OTHERS, WE ASK THAT YOU:
PLEASE TURN CELL PHONES OFF, OR PLACE ON VIBRATE. IF YOU MUST MAKE A CALL, PLEASE STEP OUT INTO THE ATRIUM, IN ORDER NOT TO INTERRUPT THE MEETING.
IF YOU MUST SPEAK TO SOMEONE IN THE AUDIENCE, PLEASE SPEAK SOFTLY OR GO OUT INTO THE ATRIUM, IN ORDER NOT TO INTERRUPT THE MEETING.

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1. 9:00 A.M.	SP-101-10, ACG GROUP SW 36 STREET, 3RD REVIEW
2. 9:30 A.M	PL-162-19, DANIA BEACH MARINA (PLAT) 70 S BRYAN ROAD, 1ST REVIEW
3. 10:00 A.M.	SP-145-19, AVID HOTEL 321 N FEDERAL HIGHWAY, 2ND REVIEW
4. 10:30 A.M.	PL-99-19, GRIFFIN LIVING (PLAT) 2730 & 2750 GRIFFIN ROAD, 4850 SW 28 AVENUE, SW 27TH TERRACE, 2ND REVIEW
5. 11:00 A.M.	SP-102-19/ RZ-103-19 SEVEN OAKS 2900 SW 45 STREET, 3RD REVIEW

If you are unable to attend the meeting or you need any further information please email or call:

Corinne Lajoie at (954) 924-6805 x 3704 or clajoie@daniabeachfl.gov
Daniel Lozandier at (954) 924-6805 x 3793 or dlozandier@daniabeachfl.gov

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

COMMUNITY DEVELOPMENT DEPARTMENT
DEVELOPMEMT REVIEW COMMITTEE
THURSDAY, OCTOBER 30, 2019

NAME (Please Print)	EMAIL	JOB NAME
Muriel Bryan	mbryan@daniabeachfl.gov	city
Jake Ripp	Jacob.ripp@metricengg.com	Metric - landscape
JOSE RAMOS	RAMOS8837@COMCAST.NET	ACG
TIM CHANDLER	TIM@TIMCHANDLER.US	A GC
Corinne Lajoie	clajoie@daniabeachfl.gov	City
Ilya Lanin	ilanin@daniabeachfl.gov	City
Manny Vega	engineeringreview@dania...	City
David Zipoli	david_zipoli@sbsheriff.org	BSO FD
MIKKI WILSON	mikkiwilson93@gmail.com	Dania Beach Marina
SEAN WALSH	SWALSH@ADACHE.COM	AVID HOTEL
EDWARD KHOURY	EKHOURY@ADACHE.COM	AVID HOTEL
DIEGO FERNIEZ	dferaez@comerlax.com.mx	AVID HOTEL
Kelly Ray	Kray808@bellsouth.net	AVID
JASON WILSON	jason@pillarconsultants.com	AVID.
Jane Sarno	jane@publicelandsurveyors.com	Griffin Living
Elizabeth Tsourokdissian	elizabeth@publicelandsurveyors.com	Griffin Living
Oleksy Syrkowski, AIA	[illegible]	7 Oaks.
STEVEN HATZIDAKIS	SHATZIDAKIS@SYKALOWSKI.COM	7 OAKS
NATALIA BARRANCO	NATALIA@B-PLA.COM	7 OAKS
Robert Ross	RRoss@Rossengineers.com	7 Oaks

Corinne's DRC Notes 11-27-19

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

CITY OF DANIA BEACH

DEPARTMENT OF PUBLIC SERVICE

November 20th, 2019.

Engineering/ Public Works Comments
PL-162-19 Dania Beach Marina Plat (1st Review)

1.- Shall submit proof of Plat submittal to the BC Development Management Division .
2.- Sec. 640-30 (3) North arrow, scale and date . Missing Date.
3.- Sec. 640-40 (5) All existing streets and alleys on or adjacent to the Tract, including name and right-of way width.
4.- Sec. 640-40 (7) All existing and right-of-way within the plat limits with the purpose and the instrument of record labeled.
5.- Sec. 640-40 (8) Location and width of all proposed ultimate rights-of-way, alleys, easements, proposed lot lines with dimensions, public areas , and parcels of land proposed or reserved for public use.
6.- Sec. 640-40 (12) Dedication and acknowledgment language.
7.- Sec. 640-30. (15) Computation of the square footage of each parcel of land proposed to be platted accurate to the nearest square foot. All survey and survey information shall be certified by a professional surveyor and mapper licensed in the State of Florida.

For ease of review, please reply in writing to each line comment, reference page number and backup documents provided. Additional comments may apply.

Engineering Reviewer:
Manny Vega, PE
Consultant, CAP Government
engineeringreview@daniabeachfl.gov

BROWARD SHERIFF'S OFFICE
Department of Fire Rescue & Emergency Services
Fire Marshal's Office
Dania Beach District
103 West Dania Beach Blvd. • Dania Beach, Florida 33004
Office: (954)342-4262 • Fax: (954)342-4265

SITE PLAN REVIEW COMMENTS

Date: 11/20/19 **Site Plan No.:** PL-162-19 **Time Required For Review:** 30

Project: Dania Beach Marina Plat (1st Review) **Sq. Feet:** N/A

Plan Reviewer: David Zipoli, Fire Prevention Officer / Plans Examiner

☐Approved As Submitted ☐Denied ☐Approved With Conditions

X☐Comments Must Be Addressed and Resubmitted Prior to City Commission Meeting

Below are two tiers of comments. Tier one comments must be satisfied prior to site plan approval and public hearing. Tier two comments, if not satisfied during original site plan approval process, must be satisfied at permit for site work.

Be advised that some Tier two comments may affect other disciplines and/or have other significant impacts on the overall site plan. In addition, the Tier 2 comments may impact permit plans with additional time delays to reach resolution at permit. It is strongly advised that all comments (both Tier 1 and Tier 2) below are satisfied prior to site plan approval and public hearing.

Tier 1 COMMENTS

Deficiencies were identified on your plan during our plan review process. Please provide the following:

1. A master site plan showing the entire site
2. Fire Department Access Information as follows:
   a. All turning radii (demonstrated)
   b. Drive Aisle widths (demonstrated) & Vertical Clearances (noted)
   c. Fire Department Apparatus Access Road locations and dimensions - demonstrate or note on the plan how they will be marked and delineated on site

3. Water Supply Information as follows:
   a. All existing and proposed water main sizes
   b. Existing and proposed fire hydrant locations

c. Dimensions of the three nearest adjacent hydrants to the project site
d. Locations of all fire department connections (Siamese and Fire Hose Valves on standpipes) on the interior and exterior of the building or structure (for buildings or structures with fire sprinkler systems)

4. Proof of Water Supply & Fire Flow Demand as follows:

    a. Fire Hydrant Flow Test
    b. Building Construction Type and Square Footage
    c. Fire Flow Demand Calculations Signed and Sealed by Licensed Engineer
    d. A completed Application for the Approval of the Fire Protection Water Supply Design (See the last page of this document)
    e. Statement of verification from the design professional of record, on official company letterhead, that the proposed water main sizing, fire hydrant spacing, and fire hydrant locations, are in compliance with the Broward County Land Use Code and the Florida Fire Prevention Code. (This document shall bear the seal and signature of the engineer).

Tier 2 COMMENTS

Deficiencies were identified on your plan during our plan review process. Please provide the following:

5. Additional Fire Department Access Information as follows:
    a. Fire Lane locations and striping detail (demonstrated)
    b. "NO PARKING" sign locations and sign details demonstrated
    c. A note or detail identifying the design load for surface compaction of all non-paved roadways and/or Fire Department Access Roads (where applicable)
    d. Building Accessibility
    e. Load Limits for Bridges and Grading for significant changes in elevation (if applicable)
    f. Fire Department Access Routes During Construction

6. Additional Water Supply Information as follows:
    a. Locations of all Post Indicating Valves or Underground Gate Valves, Double Detector Check Valves, etc.

7. A detail sheet accompanying the Civil Plans with the following details:
    a. Fire Hydrant Detail
    b. Bollard / Impact Protection Detail for Hydrants, FDC's & DDCV's
    c. Roadway Pavement Marker (RPM) Detail for Fire Hydrant Locations (Blue Reflective Markers)
    d. Post Indicating Valve Detail (where applicable)
    e. Underground Gate Valve Detail (where applicable)
    f. Backflow Preventer / Double Detector Check Valve (DDCV) Detail (where applicable) that identifies the DDCV as being listed for Fire Use
    g. Signage Detail for the Fire Department Connections (where applicable)

8. Address Detail

9. An egress plan demonstrating and dimensioning all common paths of travel and travel distances to all exits within the buildings and/or structures.

10. Minimum Radio Signal Strength for Fire Department Communications – See details on the next page.

Please provide a copy of the approved set of plans in .pdf format via email to david_zipoli@sheriff.org. If the plan set is too large to send through email, please deliver the plans in .pdf format on a USB thumb drive to:

Attn. FPO David Zipoli
954 342-4262
Fire Marshal's Office
103 West Dania Beach Boulevard
Dania Beach, FL 33004

ATTENTION CONTRACTORS & DESIGN PROFESSIONALS

EFFECTIVE IMMEDIATELY

NFPA 1:11.10 Requires minimum radio signal strength for fire department communications to be maintained at a level determined by the AHJ for all new and existing buildings.

The Owner's Rep or GC shall conduct a Preliminary Initial Assessment to determine if the minimum radio signals strength for fire department communication is in compliance with Broward County standards.

Prior to any testing, the occupancy shall be structurally completed with all interior partitions, windows and doors installed.

An assessment will be conducted by the Owner's Rep or GC to determine if the minimum radio signals strength for fire department communication in the occupancy is in compliance, in accordance with NFPA 1: 11.10.1 and NFPA 72: 24.5.2.2.1 through 24.5.2.2.3.

Radio coverage shall be provided throughout the building as a percentage of floor area as specified below in accordance with NFPA 72: 14.4.12.1.2 through 14.4.12.1.4 and NFPA 24.5.2.3.

1. A test "grid" plan shall be produced to ensure testing throughout the building.

2. Signal levels shall be measured to ensure the system meets the criteria of 24.5.2.3 according to parameters as follows:

   a. 24.5.2.3.1 Inbound.
      A minimum inbound signal strength of -95 dBm, or other signal strength as required by the authority having jurisdiction, shall be provided throughout the coverage area.
   b. 24.5.2.3.2 Outbound.
      A minimum outbound signal strength of -95 dBm at the donor site, or other signal strength as required by the authority having jurisdiction, shall be provided for the coverage area.

   c. Critical areas, such as the emergency command center(s), the fire pump room(s), exit stairs, exit passageways, elevator lobbies, standpipe cabinets, sprinkler sectional valve locations, and other areas deemed critical by the authority having jurisdiction, shall be provided with 99 percent floor area radio coverage.
   d. General building areas shall be provided with 90 percent floor area radio coverage.

ACCEPTANCE

1. If three nonadjacent areas fail the test with less than -95 decibels per milliwatt (-95 dBm), and /or a DAQ3 or below; or if two adjacent areas fail with less than -95 decibels per milliwatt (-95 dBm), and/or a DAQ3 or below, the GC will be required to pull separate plans and permit and install an IPSRES; In-Building Public Safety Radio Enhancement Systems; and/or
2. If there is less than 99 percent floor area radio coverage to all Critical areas, or less than 90 percent floor area radio coverage to all General building areas, the GC will be required to pull separate plans and permit and install an IPSRES; In-Building Public Safety Radio Enhancement Systems.

Rev. 10/30/2015

THE FOLLOWING INFORMATION IS PROVIDED FOR EXPLANATORY PURPOSES ONLY. THE NOTES BELOW CONTAIN MORE SPECIFIC INFORMATION AS IT RELATES TO THE COMMENTS YOU MAY HAVE RECEIVED IN YOUR SITE PLAN REVIEW FROM THE FIRE MARSHAL'S OFFICE.

FIRE DEPARTMENT ACCESS REQUIREMENTS

ADDRESS IDENTIFICATION
New and existing buildings shall have approved address numbers placed in a position to be plainly legible and visible from the street or roadway fronting the property. [NFPA 1:10.12.1.1] The address shall be posted at the construction site upon the start of construction.

Address numbers shall contrast with their background. Numerals shall be not less than three inches in height for residential buildings, structures, or portions thereof, and at least six inches in height for all other buildings, structures, or portions thereof. [NFPA 1:10.12.1.2]

Where address identification is required by the fire official on other elevations of buildings, structures, or portions thereof, such numbers shall be not less than three inches in height for residential and at least six inches in height for all other buildings, structures, or portions thereof. [NFPA 1:10.12.1.2.1]

Address numbers shall be Arabic numerals or alphabet letters. [NFPA 1:10.12.1.3]

GENERAL DRIVE AISLES WIDTH AND HEIGHT
Drive aisles must be a minimum of 12 feet in width. [AHJ]

VERTICAL CLEARANCES FOR APPARATUS
Vertical clearances of 14 ft. minimum are required by AHJ.

FIRE APPARATUS ACCESS ROADS IDENTIFIED AND MARKED
Fire Apparatus Access Roads are required to be identified and delineated. [AHJ; 1:18.2]

WIDTH REQUIREMENT FOR FIRE DEPARTMENT ACCESS ROADS
Fire Department access roads shall have an unobstructed width of not less than 20 feet. [1:18.2.3.4.1.1]

WIDTH & SIGNAGE REQUIREMENTS FOR CURBSIDE VEHICLE PARKING IN FIRE DEPARTMENT ACCESS LANES
- Fire Department Access Roads 20 Ft. to 27 Ft. – "NO PARKING" Signs on both sides of the road.
- Fire Department Access Roads 28 Ft. to 35 Ft. – "NO PARKING" Signs on one side of the road
- Fire Department Access Roads 36 Ft. or greater – No signage required. [AHJ]

"NO PARKING" SIGNAGE, PAINTED CURBS AND / OR FIRE LANE STRIPING REQUIRED FOR FIRE LANES, FIRE DEPARTMENT ACCESS ROADS AND IN FRONT OF FIRE DEPARTMENT CONNECTIONS

Fire Lanes, Fire Department Access Roads and the areas in front of the fire department connections, shall be designated by yellow painting, striping, or markings on the curbs and roadways.

- Provide a curb detail note to indicate that all curbs are to be painted yellow.
- All pavement markings shall be of thermoplastic paint.
- Demonstrate that these areas are to be marked with freestanding signs with the wording, **"NO PARKING FIRE LANE BY ORDER OF THE FIRE DEPARTMENT"** or similar wording.
- Such signs shall be 12 inches by 18 inches with a white background and red letters.
- These signs shall be a maximum of seven feet in height from the roadway to the bottom of the sign.
- These signs shall be within sight of the traffic flow and be a **maximum of 60 feet apart**. [1:18.2.3.5]

SURFACE COMPACTION

Demonstrate that the required Fire Department access road shall have a surface designed to:

- Accommodate fire apparatus with a minimum weight of 32 tons. [1:18.2.2.1.3]
- Have a surface suitable for all-weather driving capabilities. [1:18.2.2.5.2] – Examples: Turf Block, Concrete, Stone, etc.

OBSTRUCTION OF FIRE DEPARTMENT ACCESS ROADS

The required width of a fire department access road shall not be obstructed in any manner. [1:18.2.4.1.1]

GATES REQUIREMENT

-Where gates are utilized, provide a Knox entry system to allow Fire Department Access [1:18.2.2.1] https://www.knoxbox.com/store/chooseDepartment.cfm and select Dania Beach District Fire Marshal's Office. Phone number for Knox Customer service is as follows: 800-552-5669.

TURNING RADIUS

Turning radii must be a minimum of 38 ft. inside radius and 50 ft. outside radius with a clear sweep of 12 ft. of drive aisle for all Fire Department access roads / lanes (Turning radius requirements for Rescue Apparatus Access areas is 26' outside radius and 14' inside radius) [1:18.2.3.4.3]

When demonstrating Turning Radii, all parking spaces must be a minimum of 18' in length.

CUL-DE-SACS

Cul-de-sac turnarounds must be no less than 100 ft. in diameter.

DEAD ENDS

Dead-end fire department access roads in excess of 150 ft. in length shall be provided with approved provisions for the turning around of fire apparatus (Hammerhead "T" Turn-around, Cul-de-sacs, Alternative (Modified) "T" Turn-around, etc.). [1:18.2.3.4.4]

BUILDING ACCESSIBILITY FROM FIRE DEPARTMENT ACCESS ROADS

Any portion (furthest point) of any 1st Floor exterior wall must be:

- Not more than 150 ft. from Fire Department Access Roads – Un-sprinklered Buildings. [1:18.2.3.2.2]
- Not more than 450 ft. from Fire Department Access Roads – Sprinklered Buildings. [1:18.2.3.2.2.1]

DISTANCE TO EXTERIOR DOORS OF BUILDINGS FROM FIRE DEPARTMENT ACCESS ROADS

A single exterior door providing access to the interior of any building must be located within 50 feet of a fire department access road. [1:18.2.3.2.1]

BRIDGES

The bridge shall be designed for a live load sufficient to carry the imposed loads of fire apparatus with a minimum weight of 32 tons. [1:18.2.3.4.5.2]

LOAD LIMITS TO BE POSTED

Vehicle load limits shall be posted at both entrances to bridges, ramps and elevated roadways where required by the AHJ. [1:18.2.3.4.5.3]

GRADE

The angle of approach and departure for any means of fire department access shall not exceed 1 foot drop in 20 feet (5%), and the design limitation of the fire apparatus of the fire department shall be subject to approval by the AHJ. [1:18.2.3.4.6.2*]

FIRE HYDRANTS & FIRE PROTECTION APPLIANCES REQUIREMENTS

HYDRANT DETAIL REQUIREMENTS

Please provide fire hydrant detail in accordance with the following:

- The center of a hose outlet shall be not less than 18 inches above final grade, (or where located in a hose house, 12 inches above the floor) [24:7.3.3]
- The Steamer opening is to be 4 ½ inches in size with four (4) National Standard Threads per inch.
- All fire hydrants shall be “traffic type” to break-away upon impact.
- The fire hydrant main body valve shall open against the flow and shall close with the flow.

BLUE REFLECTIVE HYDRANT MARKERS

Provide one (1) blue double-reflective department of transportation type road marker (Roadway Pavement Marker (RPM)) to be adhered to the hard surfaces of the roadway in the middle of the lane nearest to, and directly in front of each newly installed fire hydrants. [AHJ]

IMPACT PROTECTION

Provide bollards consisting of three inch steel pipe buried at three feet deep, with three feet of height above ground level and spaced three feet apart, These bollards are to be filled with concrete and capped are acceptable. [24:7.3.5] [24:7.3.6] [13:8.15.1.3.2]

CLEARANCE REQUIREMENTS FOR FIRE HYDRANTS
Provide clearances of 36" in circumference around all fire hydrants. [1:18.5.3]

HYDRANT SPACING FOR COMMERCIAL PROPERTY
Hydrant spacing shall not exceed 350 feet linear separation (as the fire apparatus drives) for commercial properties (to also include apartment buildings, condominiums, townhouses, etc.) [24:7.2.1] [AHJ]

HYDRANT SPACING FOR PRIVATE RESIDENTIAL PROPERTY
Hydrant spacing shall not exceed 500 feet linear separation for residential one and two family dwellings. [24:7.2.1] [AHJ]

HYDRANTS TO BE 40' OR MORE FROM BLDGS.
Hydrants shall be located not less than 40 ft. from the building or wall hydrants shall be permitted to be used where approved by the AHJ. [24:7.2.4]

STANDPIPE SYSTEMS REQUIRED
Provide a Class I standpipe system in accordance with the provisions of N.F.P.A. 1, Section 13.2.2.2 and NFPA 14, where any of the following conditions exist:
- More than three stories above grade where the building is protected by an approved automatic sprinkler system.
- More than two stories above grade where the building is not protected by an approved automatic sprinkler system.
- More than 50 ft. above grade and containing intermediate stories or balconies
- More than one story below grade
- More than 20 ft. below grade

LOCATIONS OF SIAMESE FIRE DEPARTMENT CONNECTIONS
Fire department connections shall be located:
- On the street side of buildings.
- Where fully visible and recognizable from the street or nearest point of fire department apparatus accessibility.
- And arranged so that hose lines can be attached to the inlets without interference from nearby objects, including buildings, fences, posts, or other fire department connections. [14:6.3.5.1]
- Not more than 100 ft. from the nearest fire hydrant connected to an approved water supply. [14:6.3.5.4]
- On the same side of the roadway or fire lane as the nearest fire hydrant. [AHJ]
- Within three ft. (3') of the curb line of fire lanes, streets. [AHJ]
- In a place that will allow a space four feet (4') on both sides of the fire department connection centerline that must be kept open at all times.

SIGNAGE FOR FIRE DEPARTMENT CONNECTIONS
- The FDC must be identified as to the building (complete address) or portion of the building it serves. Provide a permanent tactile sign at the FDC to meet the above requirement. [14:6.3.5.3]
- A sign also shall indicate the pressure required at the inlets to deliver the system demand. [14:6.3.5.2.2]

Each fire department connection shall be designated by a sign having raised letters, at least 1 inch in height, cast on a plate or fitting that reads "STANDPIPE", "STANDPIPE AND AUTOSPKR" or "AUTOSPKR AND STANDPIPE". [14:6.3.5.2]

RED REFLECTIVE HYDRANT MARKERS
Provide one (1) Red double-reflective department of transportation type road marker (Roadway Pavement Marker (RPM)) to be adhered to the hard surfaces of the roadway in the middle of the lane nearest to, and directly in front of each newly installed fire FDC. [AHJ]
-
-

BACKFLOWS REQUIRED (See NFPA 13, Chapter 15, Section A.15.1.8 & Handbook)
Provide a Backflow Prevention Assembly for the Fire Sprinkler System that meets the following requirements:
- All backflow preventors must be Accessible for service and maintenance [13:8.16.4.6]
- All backflow preventors must be Listed for fire protection service [24:5.4.2]
- All backflow preventors must be installed above ground [AHJ]

WATER SUPPLY REQUIREMENTS

PRIVATE FIRE SERVICE MAINS CONNECTION FROM WATERWORKS SYSTEMS
By P.I.V. [24:5.5] or Underground Gate Valve [24:6.1.5]

POST INDICATING VALVES TO BE LOCATED MIN. 40 FT. FROM BLDGS.
Post indicating valves shall be located not less than 40 ft. from buildings [24:6.3.3.1]

DISTRIBUTION SYSTEMS TO BE LOOPED
All distribution systems shall be designed to reduce the dead-end mains and provide a loop for new and existing mains.

FIRE SERVICE MAIN SIZE – 8"
Hydrant mains must be sized in accordance with the requirements of the Public Services Department (typically requiring a minimum 8" diameter), and must be able to accommodate the fire flow demand for the project but in no case can be less than 6" in diameter [24:7.1.1]

SPRINKLER SYSTEM REQUIRED
Buildings 3 or more stories in height and 3 or more units attached shall be equipped with a complete automatic fire sprinkler system. Completed engineered fire sprinkler drawings are required with construction document submittal. Please Note. [FBC 903.6.]

FIRE HYDRANT FLOW TEST REQUIREMENTS
Fire Hydrant Flow Tests are required for all new projects to determine the available water supply in the area for your project. The Hydrant Flow Test must be in accordance with the Broward County Amendments (Effective February 13, 2016) to the Florida Fire Prevention Code (5th Edition), Section F-112. This test must be performed by a qualified company of the builder's choice. In addition, the static pressure at the water main shall be determined by a recorded method (ie. water wheel) for a minimum twenty-four (24) hour period. The actual flow test must be witnessed by, and recorded data sent to the Broward Sheriff's Office Fire

Marshal's Bureau, Dania Beach District in any area where water is being supplied by the City of Dania Beach Public Services.

If the water is being supplied by Broward County, the entire hydrant flow test is to be performed by Broward County O.E.S. Please contact the Broward Sheriff's Office Fire Marshal's Bureau, Dania Beach District at (954)342-4262 for determination of where the water is being supplied from.

IDENTIFYING THE FIRE FLOW DEMAND FOR BUILDINGS AND STRUCTURES
The Needed Fire Flow Requirements for all buildings / structures must be in accordance with N.F.P.A. 1 (2012 Ed.), Chapter 18, Section 18.4 for manual suppression efforts. Fire flow calculations must be prepared by a professional engineer currently licensed in the state of Florida **for each** newly constructed building or structure. Two original sets of signed and sealed calculations must be submitted to the Fire Marshal's Office on the Engineer's official letterhead for review and approval. Failure to follow the above requirements may result in delays for your project.

REQUIREMENTS FOR THE FIRE FLOW TESTING OF WATER SUPPLY FOR AUTOMATIC FIRE PROTECTION SYSTEMS (AFPS) AND AUTOMATIC STANDPIPE SYSTEMS (ASS)
The following are the requirements, as stipulated by the Broward County Amendments to the Florida Fire Prevention Code, for the Fire Flow Testing of the water supply for Automatic Fire Protection Systems (AFPS) and Automatic Standpipe Systems (ASS):

The fire flow requirement for buildings providing or requiring Automatic Fire Protection Systems (AFPS) and/or Automatic Standpipe Systems (ASS) must be in accordance with the Broward County Amendments (March 19,2018) to the Florida Fire Prevention Code (6th Edition), Section F-112, NFPA 13 (2013 Ed.) and NFPA 14 (2013 Ed.)

Broward County Amendments to the Florida Fire Prevention Code

Amendments Effective February 25, 2019

F-112 – Automatic Sprinklers Required

F-112.1 – Fire flow testing of the Water Supply for Automatic Fire Protection Systems (AFPS) and Automatic Standpipe Systems (ASS) using water as an extinguishing agent for new buildings and structures and existing buildings and structures where the AFPS and ASS are altered by more than seventy-five (75) percent of their value shall be as follows:

a) Fire flow test of the water supply for AFPS and ASS shall be in accordance with NFPA 291, Recommended Practice for Fire Flow Testing and Marking of Hydrants, Florida Administrative Code (FAC) 69A-60.

b) The engineer of record (EOR) shall be responsible to review the fire flow results, potential drought impact and future demands to the water distribution system. Where the EOR determines that the water distribution system will be significantly impacted during drought conditions or as a result of anticipated future growth, the EOR shall provide a safety margin in the design of the AFPS/ASS. The EOR shall utilize NFPA 13 annex as a guide in reviewing water distribution systems.

c) Design of the water flow for the AFPS and/or ASS shall be the same as that obtained from the fire flow test.

d) The residual pressure at the required water flow at the connection to the water main for an AFPS and/or ASS shall not be less than 20 PSI.

e) The static pressure at the water main shall be determined by a recorded method for a minimum twenty-four (24) hour period.

f) Fire flow test data shall not be more than one (1) year prior to the plans, hydraulic calculations and submittals for the AFPS and/or ASS being submitted to AHJs for their review and acceptance. The results of the fire flow test shall be provided to the AHJ at the time of the submittal of the plans, hydraulic calculations and submittals for the water based AFPS and/or ASS.

BROWARD SHERIFF'S OFFICE
DEPARTMENT OF FIRE RESCUE AND EMERGENCY SERVICES
FIRE MARSHAL'S BUREAU
DANIA BEACH DISTRICT
103 West Dania Beach Boulevard
Dania Beach, FL 33004
Phone: (954) 342-4262
Fax: (954) 342-4265

APPLICATION FOR APPROVAL OF THE FIRE PROTECTION WATER SUPPLY DESIGN

Date of Application:_____

Site Plan Application #:_____

Name of Project/Development:_____

Address of Project/Development:_____

Owner/Agent:_____

Design Professional of Record:_____

Water Purveyor:_____

Water Purveyor Address:_____

In order for the Broward Sheriff's Office, Department of Fire Rescue, Fire Marshal's Bureau to provide an approval letter for the adequacy of the fire protection water supply design for the above referenced project, the following information must be provided:

Affirmation of Compliance with Fire Protection Water Supply Design Requirements:

1. The Type of Construction" is _____ in accordance with NFPA 220.
2. The total fire protection water supply needed for manual firefighting (fire flow) and fire sprinkler/standpipe operations is _____gallons per minute. (In compliance with water supply requirements for manual firefighting operations in accordance NFPA 1:18.4 [FFPC 6th Ed.] and the Broward County Land Development Code, and the water supply necessary for fire sprinkler and standpipe operations (*if provided*) in accordance with the currently adopted editions of NFPA 13 and NFPA 14).
3. Statement of verification from the design professional of record, on official company letterhead, that the proposed water main sizing, fire hydrant spacing, and fire hydrant locations, are in compliance with the Broward County Land Use Code and the Florida Fire Prevention Code. (Attach signed and sealed document).

This will affirm that the above stated information and attached statement of verification for this project/development is accurate and can be relied on for the requested approval letter to the applicable water purveyor.

_____ _____
Signature - Owner/Agent/Occupant: Date

_____ _____
Signature – Design Professional of Record Date

Landscape Plan Review: Dania Beach Marina

PZ Log Number: PL-162-19 **Review Number:** 1

Reviewer: Jake Ripp **Date:** November 12, 2019

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

The following comments are based on a review of the landscape plans dated November 4, 2019, for the property located at 90 N Bryan Road, Dania Beach, for compliance with the City of Dania Beach Code of Ordinances.

INFORMATIONAL NOTES:

i. **Please provide a point-by-point response to each of the below comments.**
ii. Feel free to contact Jake Ripp at (305) 235-5098, (563) 380-6211, or jacob.ripp@metriceng.com for an interim review prior to your next official submittal, to expedite your landscape plan approval process.
iii. Once landscape plans are finalized, a PDF copy must be submitted via CD or email.

COMMENTS:

1. Landscape review not applicable.

END OF COMMENTS

Plat: PL-162-19 **11-21-19**

Zoning designation = PMUD-SL
FLU designation = RAC
REVIEW COMPLETE BY Corinne Lajoie (954) 924-6805 X 3704
1st review

PLAT NOTE AMENDMENT COMMENTS:

1. Section 640-20(I) required tax receipts for all parcels with Lien Search report from the City's Finance Department stating there are no liens on the properties.

2. Must provide roadway easement for possible Bryan Road expansion.

3. Provide location of NVAL along west property line.

4. Identify dimension of proposed curb cut.

5. Identify location of pedestrian cross access easement along east side of the property.

6. Provide proof of ownership.

7. Revise plat signature page to reflect Kenya Peterman as Chairperson of the Planning and Zoning Board and Marjorie Craig as the City Engineer.

8. Please e-mail resolution and legal description, prepared by an attorney, for development approval in word format to clajoie@daniabeachfl.gov four (4) weeks prior to public hearing.

Provide Sample

9. Must provide mailing list and labels for property owners within 450' of the development site to Community Development, consistent with regulations identified in the City's Code of Ordinances, Chapter 28, Section 610-30. The labels are needed 30 days prior to public hearing, information must be no older than 60 days. The City will prepare and mail the notices.

10. Applicant must provide the results of a Municipal Lien Search Request from the Finance Department stating that there are not outstanding Code Violations or Liens on the property prior to the item being scheduled for a public hearing. The statement must be no older than 90 days prior to the public hearing date. Per Section 680-40, any property with outstanding Code Violations or Liens shall not be schedule for public hearing. The form is available on the City's Web site, cost $100 and takes 5 days to process.

11. Per O-2017-022, for properties over an acre in size, the applicant must obtain and post property signs in accordance with the NEW City requirements. Please see the end of this document for guidelines.

12. Per O-2017-027 & O-2018-019, commercial properties under construction are required to provide security to fencing with screening showing project rendering covering at least 75% of the length of the fence along an arterial or state right-of-way & 25% for local roads and must include name and intended use of the project, project rendering, project website address, and owner or agent, the telephone number for the owner or agent, and the name and an emergency contact telephone number of the general contractor. Provide screen detail with next submittal.

S.P.

NOTES:

- **Application fee pays for <u>only 2</u> reviews of the project. Additional review by staff will require additional payment.**
- **Continuous and on-going site inspections will be conducted by staff throughout the entire building process.**
- **FLOOD PLAN: Finished floor elevations, per Article 220-10(C) All structures shall be constructed with a lowest FFE of at least 1 foot above the 100 year flood elevation. Identify on plans.**
- **Prior to submittal of a building permit, please contact the Building Official (954-924-6085 X3650 to schedule a pre-application meeting.**

DANIA BEACH
SEA IT. LIVE IT. LOVE IT

FILE COPY

City of Dania Beach, Florida
Department of Community Development
Planning and Zoning Division
(954) 924-6805 X3643
(954) 922-2687 Fax

RECEIVED
NOV 07 2019
BY:

Standard Development Application

- ☐ **Administrative Variance**
- ☐ **Land Use Amendment**
- X ☐ **Plat**
- ☐ **Rezoning**
- ☐ **Site Plan**
- ☐ **Special Exception**
- ☐ **Variance**
- ☐ **Other:** _____ ***(SEE APPLICATION TYPE SCHEDULE ON PAGES 3 & 4)***

Date Rec'd: _____

Petition No.: PL-162-19

THIS APPLICATION WILL NOT BE ACCEPTED UNTIL IT IS COMPLETE AND SUBMITTED WITH ALL NECESARY DOCUMENTS. Refer to the application type at the top of this form and **"Required Documentation"** checklist to determine the supplemental documents required with each application.
For after the fact applications, the responsible contractor of record shall be present at the board hearing. Their failure to attend may impact upon the disposition of your application. As always, the applicant or their authorized legal agent must be present at all meetings. All projects must also obtain a building permit from the City Building Division. For more information please reference the **Dania Beach Land Development Code Part 6, Development Review Procedures and Requirements.**

Location Address: 70 S. Bryan Road, Dania Beach, FL

Lot(s): _____ Block: _____ Subdivision: _____

Recorded Plat Name: _____

Folio Number(s): 5042 33 00 0600 ~~5042 33 00 0611~~ Legal Description: _____

Applicant/Consultant/Legal Representative **(circle one)** Mikki Ulrich/Deni Land Surveyors

Address of Applicant: 1991 NW 35th Avenue, Coconut Creek, FL 33066

Business Telephone: 954-973-7966 Home: _____ Fax: _____

E-mail address: mikkiulrich93@gmail,com

Name of Property Owner: RJ Marina Holdings LLC

Address of Property Owner: 50 S. Bryan Road, Dania Beach, FL 33004

Business Telephone: 786-344-6032 Home: _____ Fax: _____

Explanation of Request: plat property for future development
*For **Plats** please provide proposed **Plat Name** for **Variances** please attach **Criteria Statement** as per **Section 625.40 of the Land Development Code.***

Prop. Net Acreage: 1.48 Gross Acreage: 1.56 Prop. Square Footage: _____

Existing Use: Commercial Proposed Use: Residential/Commercial

Is property owned individually, by a corporation, association, or a joint venture?
LLC

AUTHORIZED REPRESENTATIVE

I/we are fully aware of the request being made to the City of Dania Beach. If I/We are unable to be present, I/we hereby authorize Deni Land Surveyors **(individual/firm) to represent me/us in all matters related to this application. I/we hereby acknowledge that the applicable fee was established to offset administrative costs and is not refundable.**

I/we are fully aware that all approvals automatically expire within 12 months of City of Dania Beach Planning and Zoning Board or City Commission approval, or pursuant to the expiration timeframe listed in Part 6 of the Dania Beach Land Development Code.

STATE OF FLORIDA
COUNTY OF BROWARD
The foregoing instrument was acknowledged

By: Michael Lally
(Owner / Agent signature*)

BEFORE ME THIS 6th **DAY OF** November **20**19

By:

Michael Lally
(Print name of person acknowledging)

(Joint owner signature if applicable)

Notary Mikki H. Ulrich

(Signature of Notary Public – State of _____)

MIKKI H. ULRICH
Commission # GG 158750
Expires November 8, 2021
Bonded Thru Troy Fain Insurance 800-385-7019

Personally known ✓ **or Produced Identification** _____

Type of identification produced: _____ **or Drivers License** _____

***If joint ownership, both parties must sign. If partnership, corporation or association, an authorized officer must sign on behalf of the group. A notarized letter of authorization from the owner of record must accompany the application if an authorized agent signs for the owner(s).**

NO APPLICATION WILL BE AUTOMATICALLY SCHEDULED FOR A MEETING.

ALL APPLICATIONS MUST BE DETERMINED COMPLETE BY STAFF BEFORE PROCESSING OCCURS.

PAYMENT DATE
11/08/2019

COLLECTION STATION
City Hall Window 2

RECEIVED FROM
Dania Beach Marina Corp

DESCRIPTION
90 N Bryan Road Dania Beach, FL 33004

City of Dania Beach
100 W. Dania Beach Blvd.
Dania Beach, FL 33004

BATCH NO.
2020-02000115

RECEIPT NO.
2020-00005982

CASHIER
fincashier2

PAYMENT CODE	RECEIPT DESCRIPTION	TRANSACTION AMOUNT
FPR	Fire Plan Review Fee 70 S Bryan Road 5042-33-00-0600/ 5042-33-00-0611	$560.00
PSP	Appl Review - Standard	$2,650.00

Payments:

Type	Detail	Amount
Check	2182	$2,650.00
Check	2183	$560.00

Total Amount: **$3,210.00**

Customer Copy

Prepared by and return to:
Alan F. Somerstein, Esq.
Greenspoon Marder LLP
200 East Broward Boulevard, Suite 1800
Fort Lauderdale, Florida 33301

File Number: 37089.0010

Parcel Identification Number: 50-42-33-00-0611

[Space Above This Line For Recording Data]

Warranty Deed

This Warranty Deed made this 11 day of September, 2019, between **SUE G. RINGGOLD, INDIVIDUALLY AND AS SUCCESSOR TRUSTEE OF THE HELEN D. HATCH TRUST, UTD DATED OCTOBER 14, 1991,** whose post office address is 3445 Beauclerc Road, Jacksonville, Florida 32257, grantor*, and **RJ MARINA HOLDINGS LLC**, a Florida limited liability company, whose post office address is 50 South Bryan Road, Dania Beach, Florida 33004 of the County of Broward, State of Florida, grantee*,

*(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth, that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in **Broward County**, Florida, to-wit:

> The land referred to herein below is situated in the County of BROWARD, State of Florida, and described as follows:
>
> All that portion of the South 10.0 feet of the South Half (S 1/2) of the Southwest Quarter (SW 1/4) of the Northwest Quarter (1/4) of the Southeast Quarter (SE 1/4) of the Southeast Quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, lying West of Central & Southern Florida Flood Control District Canal C-10 right of way.
>
> Less and except that the West 30 feet conveyed to Broward County by Quit Claim Deed recoded in Official Records Book 3570, Page 887.
>
> **The subject property is not the HOMESTEAD property of Grantor and is not contiguous to Grantor's homestead.**

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2019.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Witness Name: Alyssa Sivers

Witness Name: Christina Juarez

(Seal)
SUE G. RINGGOLD, INDIVIDUALLY AND, AS SUCCESSOR TRUSTEE OF THE HELEN D. HATCH TRUST, UTD DATED OCTOBER 14, 1991

State of Florida
County of Duval

The foregoing instrument was acknowledged before me this 11 day of Sept, 2019, by **Sue G. Ringgold, Individually and as Successor Trustee of the Helen D. Hatch Trust, UTD dated October 14, 1991**, who [ ] is personally known or [✓] has produced a driver's license as identification.

[Notary Seal]

Notary Public

Printed Name: Darius Leon

My Commission Expires: 05/01/23

DARIUS M. LEON
Commission # GG 329956
Expires May 1, 2023
Bonded Thru Troy Fain Insurance 800-385-7019

THIS INSTRUMENT WAS PREPARED BY:

Riverstone Properties, LLC
Malia O'Connell Flatt
901 East Cary Street, Suite 1500
Richmond, VA 23219
(804) 643-4200
Consideration $1,325,000.00

SPECIAL WARRANTY DEED

THIS DEED, is made and entered into this 20th day of June, 2014, by RIVERSTONE PROPERTIES, LLC, a Virginia limited liability company, hereinafter called Grantor to RJ MARINA HOLDINGS LLC, a Florida limited liability company, whose address is 1515 Southwest 20th Street, Fort Lauderdale, Florida, 33315, hereinafter called Grantee.

WITNESSETH

That Grantor for and in consideration of the sum of TEN and no/100 Dollars ($10.00) and other good and valuable consideration to Grantor in hand paid by Grantee, the receipt and sufficiency of which are hereby acknowledged, has granted, bargained, sold, transferred, and released to Grantee, and its successors, heirs, and assigns, forever, the real estate lying and being in Broward County, Florida and described on Schedule "A" attached hereto and made a part hereof.

TOGETHER WITH all the tenements, hereditaments and appurtenances, with every privilege, right, title, interest and estate, reversion, remainder and easement thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD the same in fee simple forever.

Grantor hereby covenants with Grantee that Grantor does hereby warrant the title to said land and will defend the same against the lawful claims and demands of all persons whomsoever.

IN WITNESS WHEREOF, Grantor has caused these presents to be executed in its name the day and year first above written.

Signed, sealed and delivered
in the presence of:

Lera M. Olandi

Marai M. Hall

Riverstone Properties, LLC, a Virginia
limited liability company

By: W. Hunter Goodwin, III
W. Hunter Goodwin, III
Manager

STATE OF VIRGINIA)
CITY OF RICHMOND)

The foregoing instrument was acknowledged before me this 10th day of June, 2014, by W. Hunter Goodwin, III as Manager on behalf of Riverstone Properties, LLC, a Virginia limited liability company.

Sherry G. Bowery
Notary Public

My Commission Expires: 2/28/2018
My Registration Number: 222806

Sherry G. Bowery
Commonwealth of Virginia
Notary Public
Commission No. 222806
My Commission Expires 2/28/2018

SCHEDULE "A"

The land referred to herein below is situated in the County of Broward, State of Florida, and is described as follows:

The South one-half of the Southwest one-quarter (SW 1/4) of the Northwest one-quarter (NW 1/4) of the Southeast one-quarter (SE 1/4) of the Southeast one-quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, Broward County, Florida, LESS all of that portion lying Easterly of the following specifically described line:

Commencing at the NE corner of the SE 1/4 of Section 33, Township 50 South, Range 42 East, bear South 87 degrees 26 minutes 41 seconds West, along the North line of said SE 1/4 (centerline of NW 2nd Street) a distance of 1111.05 feet; thence South 0 degrees 42 minutes 30 seconds East, a distance of 1674.9 feet, more or less, to the intersection thereof with the North line of the SW 1/4 of the NW 1/4 of the SE 1/4 of the SE 1/4 of said Section; thence, North 87 degrees 31 minutes 28 seconds East, along said North line, a distance of 35.02 feet; thence, South 0 degrees 42 minutes 30 seconds East, a distance of 150.0 feet; thence, South 89 degrees, 17 minutes 30 seconds West, a distance 14.50 feet; thence South 2 degrees 54 minutes 17 seconds West to the intersection thereof with the North line of the S 1/2 of the SW 1/4 of the NW 1/4 of the SE 1/4 of the SE 1/4 and the point of beginning; thence continue South 2 degrees 54 minutes 17 seconds West, a distance of 118 feet from the last point of deflection; thence, North 87 degrees 05 minutes 43 seconds West, a distance of 20.0 feet, thence, South 2 degrees 54 minutes 17 seconds West, a distance of 70 feet; more or less, to the intersection thereof with the South line of the SW 1/4 of the NW 1/4 of the SE 1/4 of the SE 1/4 of said Section and the end of the specifically described line.

Also LESS the West 30.0 feet of the South Half (S 1/2) of the Southwest Quarter (SW 1/4) of the Northwest Quarter (NW 1/4) of the Southeast Quarter (SE 1/4) of the Southeast Quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East.

Also LESS all that portion of the South 10,0 feet of the South Half (S 1/2) of the Southwest Quarter (SW 1/4) of the Northwest Quarter (NW 1/4) of the Southeast Quarter (SE 1/4) of the Southeast Quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, lying West of Central & Southern Florida Flood Control District Canal C-10 right of way.

AND

The North one-half (N 1/2) of the Southwest one-quarter (SW 1/4) of the Northwest one-quarter (NW 1/4) of the Southeast one-quarter (SE 1/4) of the Southeast one-quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East, Broward County, Florida, LESS all of that portion lying Easterly of the following specifically described line:

Commencing at the NE corner of the SE 1/4 of Section 33, Township 50 South, Range 42 East, bear South 87 degrees 26 minutes 41 seconds West, along the North line of said SE 1/4 (centerline of N.W. 2nd Street), a distance of 1111.05 feet; thence, South 0 degrees 42 minutes 30 seconds East, a distance of 1674.9 feet, more or less, to the intersection thereof with the North line of the SW 1/4 of NW 1/4 of SE 1/4 of SE 1/4 of said Section; thence, North 87 degrees 31 minutes 28 seconds East, along said North line, a distance of 35.02 feet to the point of beginning; thence, South 0 degrees 42 minutes 30 seconds East, a distance of 150.0 feet; thence, South 89 degrees 17 minutes 30 seconds West, a distance of 14.50 feet; thence, South 2 degrees 54 minutes 17 seconds West to the intersection thereof with the South line of the North 1/2 of SW 1/4 of NW 1/4 of SE 1/4 of SE 1/4; of said Section and the end of the specifically described line.

Also LESS the West 30.0 feet of the North Half (N 1/2) of the Southwest Quarter (SW 1/4) of the Northwest Quarter (NW 1/4) of the Southeast Quarter (SE 1/4) of the Southeast Quarter (SE 1/4) of Section 33, Township 50 South, Range 42 East.

TAX FOLIO NUMBERS: 50-42-33-00-0600 and 50-42-33-00-0610

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

AFFIDAVIT

CITY OF DANIA BEACH, FLORIDA

COMMUNITY DEVELOPMENT DEPARTMENT

MAILING LIST AND LABELS

STATE OF FLORIDA
COUNTY OF Broward

BEFORE ME, the undersigned authority, personally appeared Christina Mathews,
(Print Name)
who, after being duly sworn, deposes and says:

1. I am an individual over the age of 18 years old and

   (CHECK APPLICABLE SPACE)
   ___ I am the property Owner of the property identified below,

   OR
   X I represent to the City of Dania Beach, Florida that I am an authorized agent and representative of the property owner(s), RJ Marina Holdings LLC and NV Marina Holdings LLC,
   (Print Name of Property Owner)
   for the property located at 50 and 70 S. Bryan Road (the "Property"), and this
   (Address)
   sworn statement pertains to the application for Plat

   _____
   (Briefly describe application, such as "site plan approval" or a "variance" or a "special exemption")
   relating to Petition number(s)**PL-162-19**.

2. Pursuant to **Sec. 610-20(D)** of the Land Development Code ("LDC") of the Code of Ordinances of the City of Dania Beach, Florida, I understand that there is a mailing date deadline for notices and that as the applicant for the petition, I must provide the City with:

   - One (1) set of Mailing Labels, and
   - One (1) copy of the mailing list for all property owners who or which own property located within 450 feet of the subject property.

3. I understand that I am legally responsible for timely providing the City with the mailing labels and mailing list a minimum of twenty-five (25) days prior to the mailing date (for projects which may have more than 200 mailings, I understand that City staff may request labels even earlier). The mailing date is _____, 20____. I am also aware that pursuant to **LDC Sec. 610-30(D)(3),** "[T]he mail notice shall contain substantially the same information as provided in the newspaper advertisement for the same application, and shall also contain the legal description of the subject property, the approximate relation to the nearest cross street(s) and a

map or demarcated aerial photograph showing its approximate size, location and relationship to adjacent properties."

4. If I do not timely provide the mailing labels and mailing list, the City will need to delay the processing of the application.

OWNER OR REPRESENTATIVE:

Signature

PRINT Name

Title

JOINT OWNER (IF APPLICABLE)

Signature

PRINT Name

Title

IF CORPORATION, LIMITED LIABILITY COMPANY, LIMITED PARTNERSHIP OR OTHER ENTITY:

Cutro & Associates
(Full Legal Name of Corporation or Entity)

Signature

Christina Mathews
PRINT Name

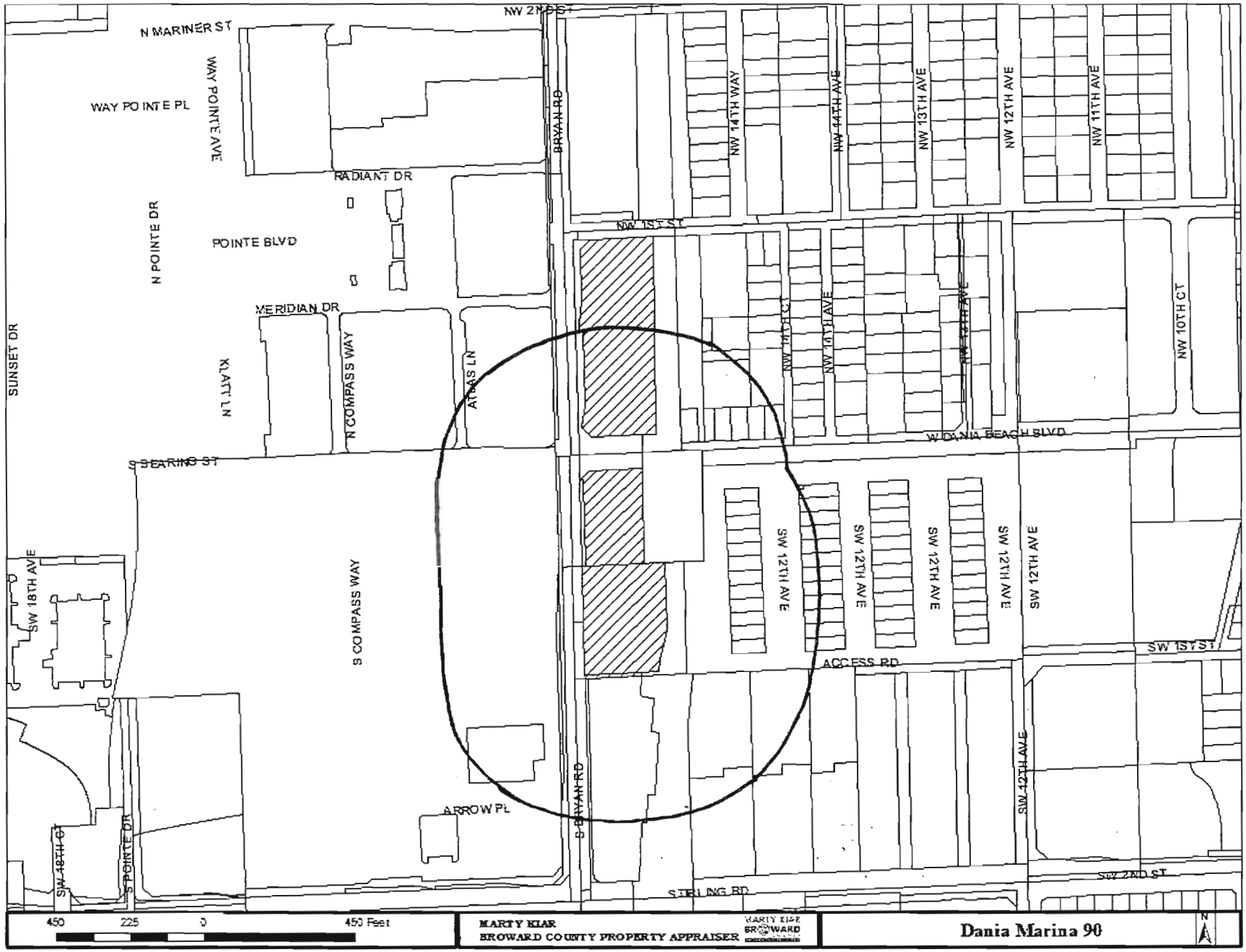
mng
Title

On August 24, 2020, personally appeared Christina Mathews, and (if applicable, if there is a co-owner) _____, as the Owner(s) of the property described above. Such person(s) is/are ~~personally known~~ to me or produced _____ his/her/their identification.

NATALIE BEDELL
Notary Public – State of Florida
Commission # GG 065714
My Comm. Expires Jan 24, 2021
Bonded through National Notary Assn.

NOTARY PUBLIC
State of Florida

My Commission Expires: 1-24-21


N MARINER ST
WAY POINTE PL
WAY POINTE AVE
RADIANT DR
N POINTE DR
POINTE BLVD
MERIDIAN DR
SUNSET DR
KLATT LN
N COMPASS WAY
ATLAS LN
S SEARING ST
SW 18TH AVE
S COMPASS WAY
ARROW PL
SW 18TH CT
S POINTE DR
NW 2ND ST
BRYAN RD
NW 14TH WAY
NW 14TH AVE
NW 13TH AVE
NW 12TH AVE
NW 11TH AVE
NW 1ST ST
NW 10TH CT
W DANIA BEACH BLVD
SW 12TH AVE
SW 1ST ST
ACCESS RD
S BRYAN RD
STERLING RD
SW 2ND ST
450 225 0 450 Feet
MARTY KIAR
BROWARD COUNTY PROPERTY APPRAISER
Dania Marina 90
N

FOLIO_NUMB	NAME	ADDRESS_LI	CITY	STATE	ZIP	ZIP4	LEGAL
504233000531	SOUTH FLORIDA WATER MANAGEMENTDISTRICT	PO BOX 24680	WEST PALM BEACH	FL	33416	4680	33-50-42E 110 M/L OF W1/2 OF SW1/4 OFNE1/4 OF SE1/4 LESS N 25 TOBRO CO FOR RD & LESS W 40 OF N592.90 THEREOF
504233000571	SOUTH FLORIDA WATER MANAGEMENTDISTRICT	PO BOX 24680	WEST PALM BEACH	FL	33416	4680	33-50-42E 110 M/L OF NW1/4 OF NW1/4 OFSE1/4 OF SE1/4
504233000572	BROWARD COUNTYBOARD OF COUNTY COMMISSIONERS	115 S ANDREWS AVE RM 501-RP	FORT LAUDERDALE	FL	33301	1801	33-50-42N 75 OF NW1/4 OF NW1/4 OFSE1/4 OF SE1/4 LESS E 110 &LESS W 30 FOR R/W & LESS BEG SECOR SEC 33,NLY ALG E/L 1340.78,WLY 1118.51,SLY 50.01 FOR POB,CONT SLY 25 TO NE COR PAR ACLARKE SUB 101/32 B,WLY ALGN/L 186.10 TO NW COR PAR A,NELY35.36,ELY ALG/L 25 N OF & PAR/W
504233000591	CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	33-50-42N 50 OF E3/4 OF N1/4 OF SE1/4 OFSE1/4 OF SEC 33-50-42
504233000600	RJ MARINA HOLDINGS LLC	50 S BRYAN RD	DANIA BEACH	FL	33004		33-50-42SW1/4 OF NW1/4 OF SE1/4 OF SE1/4LESS W 30 & S 10 THEREOF, & LESSPT LYING E OF FOL DESC LINE:COMMAT NE COR OF SE1/4 OF SAID SEC33, WLY 1111.05, S 1674.90, ELY63.84, S 201.92, SW 92.10, SLY45.50 TO PI OF TERMINATION
504233000601	SOUTH FLORIDA WATER MANAGEMENTDISTRICT	PO BOX 24680	WEST PALM BEACH	FL	33416	4680	33-50-42ALL THAT PT OF SW 1/4 OF NW 1/4OF SE 1/4 OF SE 1/4 OF SEC 33LYING ELY OF FOL LN;COMM NE COROF SE1/4 OF SEC 33,W 1111.05, S1674.9,E 35.02 TO POB,S 150, W14.50,SW TO INTERSEC WITH S/L OFN1/2 OF SW1/4 OF NW1/4 OF SE 1/4OF SE 1/4,CONT S 118,NW 20,SW 70TO INTERSEC WITH S/L OF SW1/4 OF
504233000611	RJ MARINA HOLDINGS LLC	50 SOUTH BRYAN RD	DANIA BEACH	FL	33004		33-50-42POR OF S 10 OF S1/2 OF SW1/4 OFNW1/4 OF SE1/4 OF SE1/4 LYING WOF THE FOLLOWING DESC LINE:COMMAT NE COR OF SE1/4 OF SEC 33,W1111.05,S 1674.9,E 35.02,S 150,W14.50,S TO INTERSEC WITH N/L OFS1/2 OF SW1/4 OF NW1/4 OF SE1/4OF SE1/4 AND POB,S110,W 20,S 70,LESS W30 OF S1/2 OF SW1/4 OF
504233000671	SOUTH FLORIDA WATER MANAGEMENTDISTRICT	PO BOX 24680	WEST PALM BEACH	FL	33416	4680	33-50-42PT OF W1/2 OF SW1/4 OF SE1/4 OFSE1/4 AS DESC IN OR 1917/535& COMM SE COR OF SEC 33,WLYALG S/L 1004.82,NLY 517.73 TOPOB,CONT NLY 152,ELY 16,SWLY 153.12 TO POB,LESS POR DESCIN QCD #113603187
504233000720	BROWARD COUNTYBOARD OF COUNTY COMMISSIONERS	115 S ANDREWS AVE RM 501-RP	FORT LAUDERDALE	FL	33301	1801	33-50-42W 30 OF S1/2 OF SW1/4 OF NW1/4OF SE1/4 OF SE1/4 OF SEC 33
504233000730	BROWARD COUNTYBOARD OF COUNTY COMMISSIONERS	115 S ANDREWS AVE RM 501-RP	FORT LAUDERDALE	FL	33301	1801	33-50-42W 30 OF N1/2 OF SW1/4 OF NW1/4OF SE1/4 OF SE1/4 OF SEC 33
504233000750	BROWARD COUNTYBOARD OF COUNTY COMMISSIONERS	115 S ANDREWS AVE RM 501-RP	FORT LAUDERDALE	FL	33301	1801	33-50-42W 30 OF NW1/4 OF NW1/4 OF SE1/4OF SE1/4 OF SEC 33
504233000760	BROWARD COUNTYBOARD OF COUNTY COMMISSIONERS	115 S ANDREWS AVE RM 501-RP	FORT LAUDERDALE	FL	33301	1801	33-50-42E 40 OF N1/2 OF N1/2 OF SW1/4 OFSE1/4 OF SEC 33, LESS P/P/ASAN-MAR PLAT 142-18 B
504233000770	BROWARD COUNTYBOARD OF COUNTY COMMISSIONERS	115 S ANDREWS AVE RM 501-RP	FORT LAUDERDALE	FL	33301	1801	33-50-42E 30 OF S1/2 OF N1/2 OF SW1/4 OFSE1/4 OF SEC 33 & E 30 OF SE1/4OF SW1/4 OF SE1/4 OF SAID SEC
504233000790	BROWARD COUNTYBOARD OF COUNTY COMMISSIONERS	115 S ANDREWS AVE RM 501-RP	FORT LAUDERDALE	FL	33301	1801	33-50-42ELY 30 OF S 200 OF N 495 OFNW1/4 OF SE1/4 OF SEC 33, &ELY 30 OF N 295 OF NW1/4 OFSE1/4 OF SAID SEC

504233010010	SPILLMAN,LURMYCE D	81 NW 14 AVE	DANIA BEACH	FL	33004	5113	33-50-42N 59.92 OF S 644.92 OF W 95 OFSE1/4 OF NE1/4 OF SE1/4,A/K/ALOT 12 MIZELLS SUB
504233010020	OWENS,ELIZABETH	57 NW 14 AVE	DANIA BEACH	FL	33004		33-50-42N 50 OF S 585 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 11MIZELLS SUB
504233010030	LUCAS,GARY & CYNTHIA	2242 FREEDOM ST	HOLLYWOOD	FL	33020		33-50-42N 50 OF S 535 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 10MIZELLS SUB
504233010040	LUCAS,GARYLUCAS,CYNTHIA	2242 FREEDOM ST	HOLLYWOOD	FL	33020		33-50-42N 50 OF S 485 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 9MIZELLS SUB
504233010050	SMITH,CYNTHIA H/ELUCAS,GARY	50 NW 14 AVE	DANIA BEACH	FL	33004		33-50-42N 50 OF S 435 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 8MIZELLS SUB
504233010060	AFFORDABLE HOUSING DEVELOPMENTSOLUTIONS	144 BISCAYNE BLVD #312	MIAMI	FL	33132		33-50-42N 50 OF S 385 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 7MIZELLS SUB
504233010070	BOHADANAH,ELI	3950 SW 6 ST	FORT LAUDERDALE	FL	33312	2632	33-50-42N 50 OF S 335 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 6MIZELLS SUB
504233010080	FUNCHESS,WILLIE JAMES	25 NW 14 CT	DANIA BEACH	FL	33004	5110	33-50-42N 50 OF S 285 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 5MIZELLS SUB
504233010090	HANKERSON,CHRISTA B EST	27 NW 14 AVE	DANIA BEACH	FL	33004	5113	33-50-42N 50 OF S 235 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 4MIZELLS SUB
504233010100	HANKERSON,PHYLLIS LESIMPKINS,CORTINA	27 NW 14 AVE	DANIA BEACH	FL	33004	5113	33-50-42N 50 OF S 185 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 3MIZELLS SUB
504233010110	AFFORDABLE HOUSING DEVELOPMENTSOLUTIONS	144 BISCAYNE BLVD #312	MIAMI	FL	33132		33-50-42N 50 OF S 135 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 2MIZELLS SUB
504233010120	SHARIFF,GANNIM JR & INGRID	15 NW 14 AVE #1-2	DANIA BEACH	FL	33004		33-50-42N 60 OF S 85 OF W 95 OF SE1/4OF NE1/4 OF SE1/4,A/K/A LOT 1MIZELLS SUB
504233010250	BROWARD COUNTYBOARD OF COUNTY COMMISSIONERS	115 S ANDREWS AVE RM 501-RP	FORT LAUDERDALE	FL	33301	1801	33-50-42THREE PARCELS OF LAND FOR PUBLICROADWAY PURPOSES, ALL BEINGPORTIONS OF SE1/4 OF NE1/4 OFSE1/4,LESS E 450 DESC'D AS;PARCEL #1: N 25, PARCEL #2: S 25PARCEL #3: BEG AT A PI 95 FT EOF NW COR OF SE1/4 OF NE1/4 OFSE1/4, LESS E 450, S 670,E 32.26 M/L TO A PI 95 W OF E/L
504233030120	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	TIGERTAIL GROVE RESUB 30-20 BROAD RIGHT OF WAY AS DEDICATEDPER PLAT,LESS POR LYING WITHINI-95 (ST RD 9) R/W, LESS PORVACATED LESS PORTION IN PLATDANIA POINTE 183-91 B
504233100010	BROWN,R & PATRICIA% DUSKEY MARINE INC	110 N BRYAN ROAD	DANIA BEACH	FL	33004	2244	WEST MOORLAND 19-8 BTR A LESS E 123 M/L FORC & SFFCD & LESS S 25 FOR RD
233100011	SOUTH FLORIDA WATER MANAGEMENTDISTRICT	PO BOX 24680	WEST PALM BEACH	FL	33416	4680	WEST MOORLAND 19-8 BTRACT A E 123 M/L
504233100720	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	REVISED PLAT OF BLOCK 6 & TRACT"B" OF THE PLAT OF WEST MOORLAND24-38 BTHAT NW 2ND STREET, TIGERTAILBLVD, AND NW 14TH AVENUE ARE TOREMAIN IN THE SAME STATUS AS ONTHE ORIGINAL PLAT OF WESTMOORLAND 19-8 B
504233100730	BROWARD COUNTYBOARD OF COUNTY COMMISSIONERS	115 S ANDREWS AVE RM 501-RP	FORT LAUDERDALE	FL	33301	1801	WEST MOORLAND 19-8 BS 25 OF TR A, LESS E 123
504233110070	UNITED HOUSE OF PRAYER ETALMADISON,S C TRSTEE	1665 PORTAL DR NW	WASHINGTON	DC	20012		REV PLAT BLK 6 & TRACT B OFPLAT OF WEST MOORLAND 24-38 BLOT 7
504233110080	VICKERS,LEE	112 NW 14 WAY	DANIA BEACH	FL	33004	2653	REV PLAT BLK 6 & TR B OFPLAT OF WEST MOORLAND 24-38 BLOT 8 S 200,E 75 TOGET WITHLOTS 1 & 3 BLK 2 OF WESTMOORLAND AMD 33-43 B
504233120010	DANIA-14TH WAY SERIESEMBARK PROPERTIES LLC	1751 SW 117 AVE	DAVIE	FL	33325		WEST MOORLAND AMD 33-43 BN1/2 OF LOTS 1 TO 5 BLK 1
504233120020	DAMIANO,LYNN M	4481 SW 54 CT	DANIA BEACH	FL	33314		WEST MOORLAND AMD 33-43 BS1/2 OF LOTS 1 TO 5 BLK 1

504233120060	MORALES,WALDO	5083 WHITEWATER WAY	SAINT CLOUD	FL	34771	7968	WEST MOORLAND AMD 33-43 BLOT 6 BLK 1
504233120070	123 FLORIDA LAND TRSCHANK,JONI TRSTEE	8004 NW 154 ST #218	MIAMI LAKES	FL	33016		WEST MOORLAND AMD 33-43 BLOT 7 BLK 1
504233120080	MICHAEL LAPENNA FAM TRLAPENNA,MICHAEL TRSTEE ETAL	150 PINE BEACH	*DORVAL QC	CA	H9S 2	T9	WEST MOORLAND AMD 33-43 BLOT 8 BLK 1
504233120090	OAMI,ELANA	3479 NE 163 ST # 900	NORTH MIAMI BEACH	FL	33160		WEST MOORLAND AMD 33-43 BLOT 9 BLK 1
504233120100	DEAN,WANDA B	761 SW 3 ST	DANIA BEACH	FL	33004		WEST MOORLAND AMD 33-43 BLOT 10 BLK 1
504233120110	DEAN,WANDA B	761 SW 3 ST	DANIA BEACH	FL	33004		WEST MOORLAND AMD 33-43 BLOT 11 BLK 1
504233120180	DULCIETA PROPERTIES INC	4848 SW 25 AVE	FORT LAUDERDALE	FL	33312		WEST MOORLAND AMD 33-43 BLOT 4 BLK 2
504233120240	SOUTH FLORIDA WATER MANAGEMENTDISTRICT	PO BOX 24680	WEST PALM BEACH	FL	33416	4680	WEST MOORLAND AMD 33-43 BCANAL AS DESIGNATED PER PLAT
504233120250	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	WEST MOORLAND AMD. 33-43 BALL STREETS ARE HEREBY DEDICATEDTO THE PERPETUAL USE OF THEPUBLIC
504233130010	STEWART,JACQUELINE SUZAN	1441 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	5101	MANN SUB 21-7 BLOT 1
504233130020	7418 TAMARAC INC	8527 PINES BLVD #202	PEMBROKE PINES	FL	33024		MANN SUB 21-7 BLOT 2
504233130030	TAYLOR,CHRISTINE EST	31 NW 14 CT	DANIA BEACH	FL	33004	5110	MANN SUB 21-7 BLOT 3
504233130040	FUNCHESS,GEORGE E &FUNCHESS,MABLE	1481 W DANIA BEACH BLVD	DANIA BEACH	FL	33004		MANN SUB 21-7 BLOT 4
504233130050	TAYLOR,CHRISTINE EST	31 NW 14 CT	DANIA BEACH	FL	33004	5110	MANN SUB 21-7 BLOT 5 LESS PT TO C&SFFCD ON OR1413/533
504233130051	SOUTH FLORIDA WATER MANAGEMENTDISTRICT	PO BOX 24680	WEST PALM BEACH	FL	33416	4680	MANN SUB 21-7 BLOT 6
504233130060	AIKENS,FRANCESTYRONE A AIKENS REV LIV TR ETAL	1407 NW 1 ST	DANIA BEACH	FL	33004	5105	MANN SUB 21-7 BLOT 7
504233130070	WILSON,ARTHUR E	23 NW 14 CT	DANIA BEACH	FL	33004		MANN SUB 21-7 BLOT 8
504233130080	DELOUCH,WILLIE EDWARD M JR	PO BOX 1094	DANIA BEACH	FL	33004	1094	MANN SUB 21-7 BLOT 9
504233130090	GUTIERREZ,DANIEL ROBERTO	2000 TOWERSIDE TER APT 708	MIAMI	FL	33138	2232	MANN SUB 21-7 BLOT 10
504233130100	JONES,TOMMY L &JONES,ELROY	8240 NW 47 ST	LAUDERHILL	FL	33351	5533	MANN SUB 21-7 BLOT 11
504233130110	FUNCHESS,WILLIE JAMES	25 NW 14 CT	DANIA BEACH	FL	33004	5110	MANN SUB 21-7 BLOT 12
504233130120	FUNCHESS,DWAYNE L	15 NW 14 CT	DANIA BEACH	FL	33004		MANN SUB 21-7 BLOT 13
504233130130	TAYLOR,CHRISTINE EST	31 NW 14 CT	DANIA BEACH	FL	33004	5110	MANN SUB 21-7 BLOT 14
504233130140	TAYLOR,CHRISTINE	31 NW 14 CT	DANIA BEACH	FL	33004	5110	MANN SUB 21-7 BLOT 15 LESS N 250 & LESS PT TOC&SFFCD ON OR 1413/533 & LESSE 110 OF S 100 OF N 350 & LESSOR 1679/382
504233130141	TAYLOR,CHRISTINE EST	31 NW 14 CT	DANIA BEACH	FL	33004	5110	MANN SUB 21-7 BLOT 15 E 110 OF S 100 OF N 350
504233130142	MANN,BESSIE EST	31 NW 14 CT	DANIA BEACH	FL	33004	5110	MANN SUB 21-7 BTHAT PT LOT 15 AS DESC INOR 1679 PG 382
504233130150	CCEM LLC	1785 NW 38 AVE	LAUDERHILL	FL	33311		MANN SUB 21-7 BLOT 15 N 250 LESS PT TO C&SFFCDON 1263/444
504233130151	SOUTH FLORIDA WATER MANAGEMENTDISTRICT	PO BOX 24680	WEST PALM BEACH	FL	33416	4680	MANN SUB 21-7 BALL THAT PT OF LOTS 5 & 15 LYINGWLY OF FOL DESC LINE:COMM NE COROF SE 1/4 SEC 33,S 670.40, W937.72,S 25 TO N/L LOT 15 & POB,CONT S 620 TO S/L LOT 5 AND ENDOF SAID LINE
504233130160	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	MANN SUBDIVISION 21-7 BALL STREETS AND ROADS SHOWN ONSAID PLAT ARE HEREBY DEDICATEDTO THE PERPETUAL USE OF THEPUBLIC
504233270010	DANIA POINTE WATERFRONT LLC	3470 N MIAMI AVE UPPER STE	MIAMI	FL	33127		SYMONS PLAT 82-49 BTR A LESS BEG SE COR OF SAID TR,W 14,NE 35.39 TO E/L OF TR A,SLY 32.50 TO POB & TOGETHER WITHPORT OF CANAL C-10 R/W DESC ASCOMM AT SE COR OF SE1/4 OF SEC33SW 1182.94,NW 55 TO POB,NW 39.19NE 520.19,SE 8.83,SE 32.02,SW101,SE 21,SW 188.33,NW 22,SW84.67,NW 14,SW 177.35,SW19.94 TO
504233270020	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	SYMONS PLAT 82-49 BROAD RIGHT OF WAY AS DEDICATEDPER PLAT,LESS POR LYING WITHINST RD 848 (STIRLING RD) AS PERMISC MB 8-2

504233310020	STIRLING INDUSTRIAL PARK% ALAN LEVY	4901 NW 17 WAY SUITE 103	FORT LAUDERDALE	FL	33309		STIRLING COMMERCIAL MARTFIRST ADDITION 98-50 BLOT 2
504233310030	STIRLING INDUSTRIAL PARK% ALAN LEVY	4901 NW 17 WAY SUITE 103	FORT LAUDERDALE	FL	33309		STIRLING COMMERCIAL MARTFIRST ADDITION 98-50 BLOT 3
504233310040	STIRLING INDUSTRIAL PARK% ALAN LEVY	4901 NW 17 WAY SUITE 103	FORT LAUDERDALE	FL	33309		STIRLING COMMERCIAL MARTFIRST ADDITION 98-50 BLOT 4
504233310050	STIRLING INDUSTRIAL PARK% ALAN LEVY	4901 NW 17 WAY SUITE 103	FORT LAUDERDALE	FL	33309		STIRLING COMMERCIAL MARTFIRST ADDITION 98-50 BLOT 5
504233310060	STIRLING INDUSTRIAL PARK% ALAN LEVY	4901 NW 17 WAY SUITE 103	FORT LAUDERDALE	FL	33309		STIRLING COMMERCIAL MARTFIRST ADDITION 98-50 BLOT 6
504233320010	NV MARINA HOLDINGS LLC	50 S BRYAN RD	DANIA BEACH	FL	33004		CLARKE SUBDIVISION 101-32 BPARCEL A TOG W/ PAR COMM SE CORSEC 33,NLY ALG E/L 1340.78,WLY 1118.51,SLY 50.01 TO POB,CONT SLY 25 TO NE COR PAR ACLARKE SUB 101/32 B,WLY ALG N/L186.10 TO NW COR PAR A,NELY 35.36,ELY ALG/L 25 N OF &PAR/W N/L PAR A 161.55 TO POB33-50-42
504233320020	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	CLARKE SUBDIVISION 101-32 BTHOROUGHFARES DEDICATED TO THEPUBLIC PER PLAT
504233430030	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	IMI LANDS 116-24 BTHOROUGHFARES DEDICATED TO THEPUBLIC PER PLAT
504233430040	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	DANIA OFFICE PARK 130-29 BRIGHTS OF WAY DEDICATED PER PLAT130-29 B,LESS N 165.32
504233470020	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	SAN-MAR PLAT 142-18 BTHOROUGHFARES DEDICATED TO THEPUBLIC PER PLAT LESS PORTIONIN PLAT DANIA POINTE 183-91 B
504233510010	DANIA BEACH MARINA CORP	90 NORTH BRYAN RD	DANIA BEACH	FL	33004		BRYAN ROAD WAREHOUSES 170-112 BPARCEL A TOG WITH 40 FT STRIPOF LAND LYING ADJ TO &CONTIGUOUS WITH ELY BDY OF PAR A
504233510020	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	BRYAN ROAD WAREHOUSES 170-112 BROAD RIGHT OF WAY AS DEDICATEDPER PLAT
504233550020	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004	3643	DANIA BEACH AIR & PORT COMMERCECENTRE 177-81 BRD R/W DEDICATED TO THE PUBLICPER PLAT LESS PORTION IN PLATDANIA POINTE 183-91 B
504233590010	DANIA LIVE 1748 II LLC%KIMCO REALTY CORPORATION	500 N BROADWAY #201	JERICHO	NY	11753		DANIA POINTE 183-91 BPOR PAR A AKA DANIA POINTE PHASEII PARCEL IN INSTR# 115247962LESS OFFICE PAR I,II & III INST#116250560,RES A,B,C LEASE,RES DPAR,PAR 1 INST# 115704802,PAR 2INST# 115599091 & LESS REMAININGPOR OF PAR DESC IN SURVEY SKETCH# 14_8058_KCO_PH3
504233590012	SPIRIT AIRLINES INC	2800 EXECUTIVE WAY	MIRAMAR	FL	33025		DANIA POINTE 183-91 BPORTION OF PARCEL A DESC AS:COMMAT NE COR OF NW 1/4 OF SE 1/4SEC 33-50-42, W 46.01, S 202.15TO POB, S 42.90, W 2, S 40, E 2,S 161.59, SWLY 31.12, W 597.78,NWLY 22.51, N 114.67, E 155.57,N 27, E 135.31, N 102.33, E352.37 TO POBAKA: OFFICE PARCEL I
504233590015	DANIA LIVE 1748 II LLC% KIMCO REALTY CORP	500 N BROADWAY #201	JERICHO	NY	11753		DANIA POINTE 183-91 BPORTION OF PARCEL A DESC AS:COMMAT SW COR OF SE 1/4 OF SEC33-50-42, E 1339.75, N 1374.87,W 360.71 TO POB, W 284, NWLY38.47, N 382.15, NELY 22.51, E294, SELY 38.48, S 372.15, SWLY38.48 TO POBAKA: RESIDENTIAL B LEASE

504233590016	DANIA LIVE 1748 II LLC% KIMCO REALTY CORP	500 N BROADWAY #201	JERICHO	NY	11753		DANIA POINTE 183-91 BPORTION OF PARCEL A DESC AS:COMMAT SW COR OF SE 1/4 OF SEC33-50-42, E 1339.75, N 1382.31,W 40 TO POB, SWLY 37.78,W 85.42,NWLY 30.14, NWLY 45.37, W 54.81,NWLY 31.42, N 257.50, NE 16.97,N 85.50, NW 16.97, N 10.15, NELY39.27, E 81.59, SELY 52.22, SELY52.85, E 48.58, SELY 16.17, S
504233590017	DANIA LIVE 1748 II LLC% KIMCO REALTY CORP	500 N BROADWAY #201	JERICHO	NY	11753		DANIA POINTE 183-91 BPORTION OF PARCEL A DESC AS:COMMAT SW COR OF SE 1/4 OF SEC33-50-42, E 1339.75, N 1828.60,W 70.21 TO POB, W 252.68, N352.64, NELY 14.13, E 255.88,SELY 15.22, SELY 1.69, S 331.65,E 2.71, SE 7.23, SWLY 0.94, SWLY32.11 TO POBAKA: RESIDENTIAL D PARCEL
504233590030	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004		DANIA POINTE 183-91 BRIGHT OF WAY DEDICATED TO THEPUBLIC BY THE PLAT
504233590040	PUBLIC LAND% CITY OF DANIA BEACH	100 W DANIA BEACH BLVD	DANIA BEACH	FL	33004		DANIA POINTE 183-91 BRIGHT OF WAY DEDICATED TO THEPUBLIC BY THE PLAT
504233590060	DANIA LIVE 1748 LLC% KIM REALTY	500 N BROADWAY #201	JERICHO	NY	11753		DANIA POINTE 183-91 BPOR PAR A AKA DANIA POINTE PHASE1 PARCEL IN INST# 115247962 LESSPOR DESC IN INST# 115233829,TOG/W THE GADDIS PLAT 112-7 BLESS OR 22120-521 & OR 31840-1416 & LESS POR DESC AS:COMM SWCOR OF SE 1/4 SEC 33-50-42,E1339.75,N 538.66,W 100.13 TO POB,W 228.06,S 164.80,E 128.36,S
504233590062	DANIA LIVE 1748 LLC%KIM REALTY	500 N BROADWAY #201	JERICHO	NY	11753		DANIA POINTE 183-91 BPOR PAR A DESC AS:COMM SW COR OFSE 1/4 SEC 33-50-42,E 1339.75,N538.66,W 100.13 TO POB,W 228.06,S 164.80,E 128.36,S 0.69,E 65.92,N 59.69,E 33.78,N 105.80 TO POBAKA: B100
504233AA0010	AMERICAN FIRST FEDERAL INC	PO BOX 920	LAKE OSWEGO	OR	97034		DANIA DISTRIBUTION CTR CONDOUNIT 101 BLDG 1
504233AA0020	AMERICAN FIRST FEDERAL INC	PO BOX 920	LAKE OSWEGO	OR	97034		DANIA DISTRIBUTION CTR CONDOUNIT 102 BLDG 1
504233AA0030	WESTMINSTER MCINTYRE FAM IREV TRMCINTYRE,WILLIAM TRSTEE	3033 NE 32 AVE	FORT LAUDERDALE	FL	33308		DANIA DISTRIBUTION CTR CONDOUNIT 103 BLDG 1
504233AA0040	STIRLING PRODUCTIONS LLC	73 SW 12 AVE STE 105	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 104 BLDG 1
504233AA0050	STIRLING PRODUCTIONS LLC	73 SW 12 AVE STE 105	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 105 BLDG 1
504233AA0060	STIRLING PRODUCTIONS LLC	73 SW 12 AVE STE 105	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 106 BLDG 1
504233AA0070	DESIGN & MEDIA GROUP LLC	59 SW 12 AVE #110	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 107 BLDG 1
233AA0080	H&S HOLLYWOOD PROPERTIES LLC	3612 NW 82 DR	COOPER CITY	FL	33024		DANIA DISTRIBUTION CTR CONDOUNIT 108 BLDG 1
504233AA0090	LAZAR,LAWRENCE L & AUDREY M	73 SW 12 AVE #109-A	DANIA BEACH	FL	33004	3523	DANIA DISTRIBUTION CTR CONDOUNIT 109 BLDG 1
504233AA0100	ONE OF A KIND DESIGN LLC	73 SW 12 AVE STE 110	DANIA BEACH	FL	33004	3523	DANIA DISTRIBUTION CTR CONDOUNIT 110 BLDG 1
504233AA0110	WD INVESTMENT HOLDINGS LLC	1250 S PINE ISLAND RD #200	PLANTATION	FL	33324		DANIA DISTRIBUTION CTR CONDOUNIT 111 BLDG 1
504233AA0120	FAD REALTY LLC% RUSSELL FRANCES	73 SW 12 AVE UNIT 112	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 112 BLDG 1
504233AA0130	DANIA WAREHOUSE 101 LLC	59 SW 12 AVE #101-2	DANIA BEACH	FL	33004	3542	DANIA DISTRIBUTION CTR CONDOUNIT 101 BLDG 2
504233AA0140	DANIA WAREHOUSE 102 LLC	59 SW 12 AVE #102-2	DANIA BEACH	FL	33004	3542	DANIA DISTRIBUTION CTR CONDOUNIT 102 BLDG 2
504233AA0150	G I GROUP FLORIDA LP	888 SE 3 AVE #500	FORT LAUDERDALE	FL	33316		DANIA DISTRIBUTION CTR CONDOUNIT 103 BLDG 2
504233AA0160	K & M ENTERPRISES LLC	2941 SW 82 WAY	DAVIE	FL	33328		DANIA DISTRIBUTION CTR CONDOUNIT 104 BLDG 2
504233AA0170	K & M ENTERPRISES LLC	2941 SW 82 WAY	DAVIE	FL	33328		DANIA DISTRIBUTION CTR CONDOUNIT 105 BLDG 2
504233AA0180	MOLLY FULFILLMENT &PACKAGING LLC	59 SW 12 AVE	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 106 BLDG 2
504233AA0190	B & A PROPERTIES LLC	59 SW 12 AVE #110	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 107 BLDG 2
504233AA0200	B & A PROPERTIES LLC	59 SW 12 AVE #110	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 108 BLDG 2
504233AA0210	B & A PROPERTIES	59 SW 12 AVE #110	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 109 BLDG 2
504233AA0220	B & A PROPERTIES	59 SW 12 AVE #110	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 110 BLDG 2
504233AA0230	SOUTH FLORIDA STUDIO LLC	59 SW 12 AVE #110	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 111 BLDG 2
504233AA0240	SANCHEZ MORENO REAL ESTATE LLC	59 SW 12 AVE #112	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 112 BLDG 2

504233AA0250	DANIA BEACH MANAGEMENT GROUP LLC	1351 NE 172 ST	MIAMI	FL	33162		DANIA DISTRIBUTION CTR CONDOUNIT 101 BLDG 3
504233AA0260	DANIA BEACH MANAGEMENT GROUP LLC	1351 NE 172 ST	MIAMI	FL	33162		DANIA DISTRIBUTION CTR CONDOUNIT 102 BLDG 3
504233AA0270	DANIA BEACH MANAGEMENT GROUP LLC	1351 NE 172 ST	MIAMI	FL	33162		DANIA DISTRIBUTION CTR CONDOUNIT 103 BLDG 3
504233AA0280	DANIA BEACH MANAGEMENT GROUP LLC	1351 NE 172 ST	MIAMI	FL	33162		DANIA DISTRIBUTION CTR CONDOUNIT 104 BLDG 3
504233AA0290	DANIA BEACH MANAGEMENT GROUP LLC	1351 NE 172 ST	MIAMI	FL	33162		DANIA DISTRIBUTION CTR CONDOUNIT 105 BLDG 3
504233AA0300	DANIA BEACH MANAGEMENT GROUP LLC	1351 NE 172 ST	MIAMI	FL	33162		DANIA DISTRIBUTION CTR CONDOUNIT 106 BLDG 3
504233AA0310	SPIN REALTY LLC	1030 N SOUTHLAKE DR	HOLLYWOOD	FL	33019		DANIA DISTRIBUTION CTR CONDOUNIT 107 BLDG 3
504233AA0320	SOUTH FLORIDA STUDIO LLC	59 SW 12 AVE #110	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 108 BLDG 3
504233AA0330	SOUTH FLORIDA STUDIO LLC	59 SW 12 AVE #110	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 109 BLDG 3
504233AA0340	SOUTH FLORIDA STUDIO LLC	59 SW 12 AVE #110	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 110 BLDG 3
504233AA0350	SCHOELLER,CHRISTOPHER	35 SW 12 AVE #111	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 111 BLDG 3
504233AA0360	MTE-THOMSON INC	35 SW 12 AVE #112	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 112 BLDG 3
504233AA0370	11 SW 12TH LLC	1800 PITTSBURGH DRIVE	DELAWARE	OH	43015		DANIA DISTRIBUTION CTR CONDOUNIT 101 BLDG 4
504233AA0380	11 SW 12TH LLC	1800 PITTSBURGH DRIVE	DELAWARE	OH	43015		DANIA DISTRIBUTION CTR CONDOUNIT 102 BLDG 4
504233AA0390	11 SW 12TH LLC	1800 PITTSBURGH DRIVE	DELAWARE	OH	43015		DANIA DISTRIBUTION CTR CONDOUNIT 103 BLDG 4
504233AA0400	BLUEWAVE REEL ESTATE LLC	8522 SAWPINE ROAD	DELRAY BEACH	FL	33446		DANIA DISTRIBUTION CTR CONDOUNIT 104 BLDG 4
504233AA0410	DAVID K SCALISE &MARCELLA L SCALISE REV TR ETAL	8522 SAWPINE RD	DELRAY BEACH	FL	33446		DANIA DISTRIBUTION CTR CONDOUNIT 105 BLDG 4
[illegible]33AA0420	COMO HOLDINGS CORP	11 SW 12 AVENUE #106 BLD 4	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 106 BLDG 4
504233AA0430	YM 26 FLEX LLC	1550 LATHAM RD STE 8	WEST PALM BEACH	FL	33409		DANIA DISTRIBUTION CTR CONDOUNIT 107 BLDG 4
504233AA0440	YM 26 FLEX LLC	1550 LATHAM RD STE 8	WEST PALM BEACH	FL	33409		DANIA DISTRIBUTION CTR CONDOUNIT 108 BLDG 4
504233AA0450	YM 26 FLEX LLC	1550 LATHAM ROAD STE 8	WEST PALM BEACH	FL	33409		DANIA DISTRIBUTION CTR CONDOUNIT 109 BLDG 4
504233AA0460	F E V INVESTMENTS INC%TIGER VAC INC	11 SW 12 AVE STE 112	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 110 BLDG 4
504233AA0470	F E V INVESTMENTS INC%TIGER VAC INC	11 SW 12 AVE STE 112	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 111 BLDG 4
504233AA0480	F E V INVESTMENTS INC%TIGER VAC INC	11 SW 12 AVE STE 112	DANIA BEACH	FL	33004		DANIA DISTRIBUTION CTR CONDOUNIT 112 BLDG 4

RECEIVED
AUG 31 2020

AFFIDAVIT

CITY OF DANIA BEACH, FLORIDA
COMMUNITY DEVELOPMENT DEPARTMENT
POSTING OF PUBLIC HEARING NOTICE SIGN

STATE OF FLORIDA

COUNTY OF Broward

BEFORE ME, the undersigned authority, personally appeared Christina Mathews, who, after being duly sworn, deposes and says:

1. I, Christina Mathews (Print Name), am an individual over the age of 18 years old and

(CHECK APPLICABLE SPACE)

_____ I am the property Owner,

OR

X I am a representative of the property owner(s), AMOPT LLC and _____, for property located at 922 S. Federal Highway (the "Property"), and this sworn statement pertains to the application for Site Plan, Special Exception, Variances, relating to Petition number _____ in the Code of Ordinances of the City of Dania Beach, Florida. SP-042-20 VA-043-20 VA-044-20 VA-045-20 VA-046-20 VA-047-20 VA-063-20 SE-48-20

2. Pursuant to Sec. 610-30(B)(1) of the Land Development Code of the Code of Ordinances of the City of Dania Beach, Florida, on August 31, 201 20, I posted, or caused to be posted, a public notice sign along street frontages of the subject Property, with the sign being at least three (3) square feet in area, and between ten (10) and twenty (20) feet from the edge of street pavement in a manner so as to be completely visible from the public rights-of-way. The public notice sign was posted more than ten (10) days before the scheduled public hearing. I am aware that the Code Section cited above requires the sign to state and contain the following information:

PUBLIC HEARING NOTICE
Petition number;
Date;
Time; and
Telephone number of the City's Community Development Department.

3. A true and accurate copy (copies) of the subject sign(s) is/are attached to this Affidavit and incorporated by this reference.

FURTHER, AFFIANT SAYS NOTHING MORE.

AFFIANT

Sworn to and subscribed before me on August 31, 2020

NOTARY PUBLIC
State of Florida at Large

My Commission Expires: 1-24-21

NATALIE BEDELL
Notary Public – State of Florida
Commission # GG 065714
My Comm. Expires Jan 24, 2021
Bonded through National Notary Assn.

City of Dania Beach
PUBLIC HEARING NOTICE
MONDAY, SEPTEMBER 14, 2020
THIS PROPERTY IS THE SUBJECT OF UPCOMING PUBLIC HEARINGS
TIME | 7:00 p.m.
PLACE | City Commission virtual Meeting
Please visit www.daniabeachfl.gov/virtualmeetings
for detailed instructions on this meeting.
PROJECT | AMOPTC/ MSC Training Facility
LOCATION | 922 South Federal Highway
REQUESTS | Site Plan, Special Exception for the construction of a 14,000 Square ft. Specialty school, and Variances for parking spaces, building placement, Landscaping, dumpster location, perimeter wall and height.
FILE # | SP-042-20/ VA-043-20/VA-044-20/VA-045-20/
VA-046-20/ VA-047-20/ VA-063-20/ SE-48-20
For more information, please visit our website http://daniabeachfl.gov/Public-Hearings or call (954) 924-6800 x 3643.

City of Beach
PUBLIC HEARING NOTICE
MONDAY, SEPTEMBER 14, 2020
THIS PROPERTY IS THE SUBJECT OF UPCOMING PUBLIC HEARINGS
TIME | 7:00 p.m.
PLACE | City Commission virtual Meeting
Please visit www.daniabeachfl.gov/virtualmeetings
for detailed instructions on this meeting.
PROJECT | AMOPTC/ MSC Training Facility
LOCATION | 922 South Federal Highway
REQUESTS | Site Plan, Special Exception for the construction of a 14,000 Square ft. Specialty school, and Variances for parking spaces, building placement, Landscaping, dumpster location, perimeter wall and height.
FILE # | SP-042-20/ VA-043-20/VA-044-20/VA-045-20/
VA-046-20/ VA-047-20/ VA-063-20/ SE-48-20
For more information, please visit our website http://daniabeachfl.gov/Public-Hearings or call (954) 924-6800 x 3643.

City of Dania Beach
PUBLIC HEARING NOTICE
MONDAY, SEPTEMBER 14, 2020

THIS PROPERTY IS THE SUBJECT OF UPCOMING PUBLIC HEARINGS

TIME | 7:00 p.m.

PLACE | City Commission virtual Meeting
Please visit www.daniabeachfl.gov/virtualmeetings
for detailed instructions on this meeting.

PROJECT | AMOPTC/ MSC Training Facility

LOCATION | 922 South Federal Highway

REQUESTS | Site Plan, Special Exception for the construction of a 14,000 Square ft. Specialty school, and Variances for parking spaces, building placement, Landscaping, dumpster location, perimeter wall and height.

FILE # | SP-042-20/ VA-043-20/VA-044-20/VA-045-20/
VA-046-20/ VA-047-20/ VA-063-20/ SE-48-20

For more information, please visit our website http://daniabeachfl.gov/Public-Hearings or call (954) 924-6800 x 3643.

This Sign is the property of the City of Dania Beach. In accordance with Section 610-30 of the Land Development Code, it shall be unlawful for any person to injure, cut, break or destroy in any manner any building or other thing belonging to or under the control of the City. Persons warning of removing the Notice may be subject to fine and/or imprisonment.

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11 SW 12TH LLC
1800 PITTSBURGH DRIVE
DELAWARE OH 43015

123 FLORIDA LAND TR
SCHANK,JONI TRSTEE
8004 NW 154 ST #218
MIAMI LAKES FL 33016

7418 TAMARAC INC
8527 PINES BLVD #202
PEMBROKE PINES FL 33024

AFFORDABLE HOUSING
DEVELOPMENT SOLUTIONS
144 BISCAYNE BLVD #312
MIAMI FL 33132

AIKENS,FRANCES
TYRONE A AIKENS REV LIV TR
1407 NW 1 ST
DANIA BEACH FL 33004 5105

YM 26 FLEX LLC
1550 LATHAM RD STE 8
WEST PALM BEACH FL 33409

AMERICAN FIRST FEDERAL INC
PO BOX 920
LAKE OSWEGO OR 97034

B & A PROPERTIES LLC
59 SW 12 AVE #110
DANIA BEACH FL 33004

BLUEWAVE REEL ESTATE LLC
8522 SAWPINE ROAD
DELRAY BEACH FL 33446

BOHADANAH,ELI
3950 SW 6 ST
FORT LAUDERDALE FL 33312 2632

BROWARD COUNTY BOARD OF
COUNTY COMMISSIONERS
115 S ANDREWS AVE RM 501-RP
FORT LAUDERDALE FL 33301 1801

BROWN,R & PATRICIA
% DUSKEY MARINE INC
110 N BRYAN ROAD
DANIA BEACH FL 33004 2244

CCEM LLC
1785 NW 38 AVE
LAUDERHILL FL 33311

CITY OF DANIA BEACH
100 W DANIA BEACH BLVD
DANIA BEACH FL 33004 3643

COMO HOLDINGS CORP
11 SW 12 AVENUE #106 BLD 4
DANIA BEACH FL 33004

DAMIANO,LYNN M
4481 SW 54 CT
DANIA BEACH FL 33314

DANIA BEACH MANAGEMENT
GROUP LLC
1351 NE 172 ST
MIAMI FL 33162

DANIA BEACH MARINA CORP
90 NORTH BRYAN RD
DANIA BEACH FL 33004

DANIA LIVE 1748 II LLC
% KIMCO REALTY CORP
500 N BROADWAY #201
JERICHO NY 11753

DANIA LIVE 1748 LLC
% KIM REALTY
500 N BROADWAY #201
JERICHO NY 11753

DANIA POINTE WATERFRONT LLC
3470 N MIAMI AVE UPPER STE
MIAMI FL 33127

DANIA WAREHOUSE 101 LLC
59 SW 12 AVE #101-2
DANIA BEACH FL 33004 3542

DANIA WAREHOUSE 102 LLC
59 SW 12 AVE #102-2
DANIA BEACH FL 33004 3542

DANIA-14TH WAY SERIESEMBARK
PROPERTIES LLC
1751 SW 117 AVE
DAVIE FL 33325

DAVID K SCALISE &
MARCELLA L SCALISE REV TR
8522 SAWPINE RD
DELRAY BEACH FL 33446

DEAN,WANDA B
761 SW 3 ST
DANIA BEACH FL 33004

DELOUCH,WILLIE EDWARD M JR
PO BOX 1094
DANIA BEACH FL 33004 1094

DESIGN & MEDIA GROUP LLC
59 SW 12 AVE #110
DANIA BEACH FL 33004

DULCIETA PROPERTIES INC
4848 SW 25 AVE
FORT LAUDERDALE FL 33312

F E V INVESTMENTS INC
%TIGER VAC INC
11 SW 12 AVE STE 112
DANIA BEACH FL 33004

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FAD REALTY LLC
% RUSSELL FRANCES
73 SW 12 AVE UNIT 112
DANIA BEACH FL 33004

FUNCHESS,DWAYNE L
15 NW 14 CT
DANIA BEACH FL 33004

FUNCHESS,GEORGE E &
FUNCHESS,MABLE
1481 W DANIA BEACH BLVD
DANIA BEACH FL 33004

FUNCHESS,WILLIE JAMES
25 NW 14 CT
DANIA BEACH FL 33004 5110

G I GROUP FLORIDA LP
888 SE 3 AVE #500
FORT LAUDERDALE FL 33316

GUTIERREZ,DANIEL ROBERTO
2000 TOWERSIDE TER APT 708
MIAMI FL 33138 2232

H&S HOLLYWOOD PROPERTIES LLC
3612 NW 82 DR
COOPER CITY FL 33024

HANKERSON,CHRISTA B EST
27 NW 14 AVE
DANIA BEACH FL 33004 5113

HANKERSON,PHYLLIS
SIMPKINS,CORTINA
27 NW 14 AVE
DANIA BEACH FL 33004 5113

JONES,TOMMY L &
JONES,ELROY
8240 NW 47 ST
LAUDERHILL FL 33351 5533

K & M ENTERPRISES LLC
2941 SW 82 WAY
DAVIE FL 33328

LAZAR,LAWRENCE L & AUDREY M
73 SW 12 AVE #109-A
DANIA BEACH FL 33004 3523

LUCAS,GARY & CYNTHIA
2242 FREEDOM ST
HOLLYWOOD FL 33020

MANN,BESSIE EST
31 NW 14 CT
DANIA BEACH FL 33004 5110

MICHAEL LAPENNA FAM TR
LAPENNA,MICHAEL TRSTEE
150 PINE BEACH
*DORVAL QC CA H9S 2 T9

MOLLY FULFILLMENT &
PACKAGING LLC
59 SW 12 AVE
DANIA BEACH FL 33004

MORALES,WALDO
5083 WHITEWATER WAY
SAINT CLOUD FL 34771 7968

MTE-THOMSON INC
35 SW 12 AVE #112
DANIA BEACH FL 33004

NV MARINA HOLDINGS LLC
50 S BRYAN RD
DANIA BEACH FL 33004

OAMI,ELANA
3479 NE 163 ST # 900
NORTH MIAMI BEACH FL 33160

ONE OF A KIND DESIGN LLC
73 SW 12 AVE STE 110
DANIA BEACH FL 33004 3523

OWENS,ELIZABETH
57 NW 14 AVE
DANIA BEACH FL 33004

PUBLIC LAND
% CITY OF DANIA BEACH
100 W DANIA BEACH BLVD
DANIA BEACH FL 33004 3643

RJ MARINA HOLDINGS LLC
50 SOUTH BRYAN RD
DANIA BEACH FL 33004

SANCHEZ MORENO
REAL ESTATE LLC
59 SW 12 AVE #112
DANIA BEACH FL 33004

SCHOELLER,CHRISTOPHER
35 SW 12 AVE #111
DANIA BEACH FL 33004

SHARIFF,GANNIM JR & INGRID
15 NW 14 AVE #1-2
DANIA BEACH FL 33004

SMITH,CYNTHIA
LUCAS,GARY
50 NW 14 AVE
DANIA BEACH FL 33004

SOUTH FLORIDA STUDIO LLC
59 SW 12 AVE #110
DANIA BEACH FL 33004

SOUTH FLORIDA WATER
MANAGEMENT DISTRICT
P.O BOX 24680
WEST PALM BEACH FL 33416 4680

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SPILLMAN,LURMYCE D
81 NW 14 AVE
DANIA BEACH FL 33004 5113

SPIN REALTY LLC
1030 N SOUTHLAKE DR
HOLLYWOOD FL 33019

SPIRIT AIRLINES INC
2800 EXECUTIVE WAY
MIRAMAR FL 33025

STEWART,JACQUELINE SUZAN
1441 W DANIA BEACH BLVD
DANIA BEACH FL 33004 5101

STIRLING INDUSTRIAL PARK
% ALAN LEVY
4901 NW 17 WAY SUITE 103
FORT LAUDERDALE FL 33309

STIRLING PRODUCTIONS LLC
73 SW 12 AVE STE 105
DANIA BEACH FL 33004

TAYLOR,CHRISTINE
31 NW 14 CT
DANIA BEACH FL 33004 5110

TAYLOR,CHRISTINE EST
31 NW 14 CT
DANIA BEACH FL 33004 5110

UNITED HOUSE OF PRAYER
MADISON,S C TRSTEE
1665 PORTAL DR NW
WASHINGTON DC 20012

VICKERS,LEE
112 NW 14 WAY
DANIA BEACH FL 33004 2653

WD INVESTMENT HOLDINGS LLC
1250 S PINE ISLAND RD #200
PLANTATION FL 33324

WESTMINSTER MCINTYRE FAM IREV TR
MCINTYRE,WILLIAM TRSTEE
3033 NE 32 AVE
FORT LAUDERDALE FL 33308

WILSON,ARTHUR E
23 NW 14 CT
DANIA BEACH FL 33004

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CITY OF DANIA BEACH
OFFICE OF THE CITY CLERK

MEMORANDUM

DATE: December 8, 2020

TO: Honorable Mayor and Commissioners

FROM: Ana M. Garcia, ICMA-CM, City Manager

BY: Thomas Schneider, City Clerk

RE: 2021 City Commission Meeting Dates

Request
Attached for your review and approval are the City Commission meeting dates for 2021.

Background
As you are aware, the City Commission meetings are the second and fourth Tuesday of every month.

There are three major holidays that impact City Commission meeting dates in 2021, as follows:

City Commission Meeting Date	Holidays
November 23, 2021	Thanksgiving Holiday – Thursday-Friday, November 25-26, 2021
December 28, 2020	Christmas Holiday – Friday, December 24 & Monday, December 27, 2021 New Year's Holiday – Friday, December 31, 2021

Budgetary Impact
None

Recommendation
Review and approve City Commission meeting dates for 2021.

CITY OF DANIA BEACH
CITY COMMISSION MEETING DATES
JANUARY 2021 – DECEMBER 2021

City Commission Meeting Date Tuesday – 7:00 p.m.	**Holidays**
January 12, 2021	
January 26, 2021	
February 9, 2021	
February 23, 2021	
March 9, 2021	
March 23, 2021	
April 13, 2021	
April 27, 2021	
May 11, 2021	
May 25, 2021	
June 8, 2021	
June 22, 2021	
July 13, 2021	
July 27, 2021	
August 10, 2021	
August 24, 2021	
September 14, 2021	
September 28, 2021	
October 12, 2021	
October 26, 2021	
November 9, 2021	
November 23, 2021	**Thanksgiving Holiday – Thursday-Friday, November 25-26, 2021**
December 14, 2021	
December 28, 2021	**Christmas Holiday – Friday, December 24 & Monday, December 27, 2021** **New Year's Holiday – Friday, December 31, 2021**

DRAFT

AIRPORT ADVISORY BOARD
MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
Sonja Broom 426 SE Third Terrace Dania Beach, FL 33004 954-599-7277 Sonja.Broom@aa.com	May 14, 2019	November 2018 through November 2020	James
		November 2018 through November 2020	James
Dean Harley 606 NW 8th Street Dania Beach, FL 33004-2320 513-652-5140 dharley@broward.edu	December 11, 2018	November 2018 through November 2020	Lewellen
Keith Roberts 4417 SW 27th Terrace Dania Beach, FL 33312 954-309-5555 bkars2020@aol.com	December 11, 2018	November 2018 through November 2020	Lewellen
Jorge Ferrer 85 Gulfstream Road, #211 Dania Beach, FL 33004	March 12, 2019	November 2018 through November 2020	Harris
Sheila McCray 46 NW 14th Court Dania Beach, FL 33004 786-422-3707 sheilamac@sofftekk.com	May 14, 2019	November 2018 through November 2020	Harris
Randy Wright 4391 SW 34th Lane Ft. Lauderdale, FL 33312 954-983-6920 rcwpaw@juno.com	December 11, 2018	November 2018 through November 2020	Brandimarte

AIRPORT ADVISORY BOARD
MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
Gary Luedtke 4461 SW 34 Drive Fort Lauderdale, FL 33312-5513 954-966-8013 gluedtke@gmail.com	December 11, 2018	November 2018 through November 2020	Brandimarte
Bruce Hannover 617 NE 2nd Place Dania Beach, FL 33004 954-920-3563 bruceh8552@aol.com	February 26, 2019	November 2018 through November 2020	Odman
Dr. Tamara D. Fishman 837 NW 8th Avenue Dania Beach, FL 33004 786-356-4425 fishmantamara@hotmail.com	February 26, 2019	November 2018 through November 2020	Odman

CREATIVE ARTS COUNCIL ADVISORY BOARD MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Appointment
Henriette Kitte Arnold 101 SE 3rd Avenue, #504 Dania Beach, FL 33004 954.303.3498 hkitte@aol.com	January 10, 2017	November 2016 through November 2020	Brandimarte
		November 2016 through November 2020	Harris
Lilli Schipper 716 SE 3rd Court Dania Beach, FL 33004 954-347-7402 lilli@lillirachel.com	January 14, 2020	November 2018 through November 2022	Lewellen
Roseprimevere Jacques 501 E Dania Beach Boulevard, 3J Dania Beach, FL 33004 954.261.4325 jroseprimevere@gmail.com	September 23, 2019	November 2018 through November 2022	Odman
Heather Holmes 43 SE 12th Street Dania Beach, FL 33004 754.802.4217 JohnHeatherHolmes@gmail.com	December 10, 2019	November 2016 through November 2020	James
			Ad Hoc Committee
			Ad Hoc Committee

CREATIVE ARTS COUNCIL ADVISORY BOARD MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Appointment
Laura Lombardo 1401 NW 10th Street, Apt. South Dania Beach, FL 33004 954.258.1985 Laurarosey17@gmail.com	February 16, 2019	February 16, 2019 through February 16, 2021	Ad Hoc Committee
Sandy Goldberg 421 SE 10th Street, #105 A Dania Beach, FL 33004 954.290.3909 flygirlphoto@aol.com	March 20, 2018	March 20, 2018 through March 20, 2020	Ad Hoc Committee
Linda Wilson 1547 Adams Street Hollywood, FL 33020 954.929.8712 lb_wilson@bellsouth.net	May 16, 2017	May 16, 2017 through May 16, 2019	Ad Hoc Committee
Tony Walsh 235 SE 9th Street Dania Beach, FL 33004 904.252.1118 TWalshArts@aol.com	February 16, 2019	February 16, 2019 through February 16, 2021	Ad Hoc Committee
Rose Lizana Dania Beach Press P.O. Box 128 Dania Beach, FL 33004 954.925.4227 daniapress@aol.com	July 16, 2012 July 16, 2013	July 16, 2013 through July 16, 2014	Associate Member 1 Year Term
Executive Director of the Dania Beach Chamber of Commerce Randie Shane P.O. Box 1017 Dania Beach, FL 33004 954.926.2323 rshane@daniabeachchamber.org	NA	NA	Associate Member

CREATIVE ARTS COUNCIL ADVISORY BOARD MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Appointment
President of the Dania Beach Paul DeMaio Friends of the Library Linda Wilson	NA	NA	Associate Member
President of the Dania Beach Tourism Council Joe Van Eron 1500 S.W. Second Ave. Dania Beach, FL 33004-4209 954.925.6935 Cell: 954.383.5548 info@visitdaniabeach.com	NA	NA	Associate Member
Dania Beach Improvement Committee Representative Patricia Hart 954.922.8179 Cell: 954.895.8179 pbubbahart@bellsouth.net	NA	NA	Associate Member
Director of the City Parks and Recreation Department Eric Brown, Director 100 W. Dania Beach Blvd. Dania Beach, FL 33004 954.924.6800 x3730 ebrown@daniabeachfl.gov	NA	NA	Associate Member
City of Dania Beach CRA Economic Development Manager Muriel Bryan 100 W. Dania Beach Blvd. Dania Beach, FL 33004 954.924.6801 x3667 mbryan@daniabeachfl.gov	NA	NA	Associate Member
Don Mizell 187 NE 6 Ct. Dania Beach, FL 33004 310.343.3547 dmaceco@gmail.com	February 2013	NA	Honorary Member

CREATIVE ARTS COUNCIL ADVISORY BOARD MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Appointment
Carolyn Jones 722 SW 3rd Street P.O. Box 1242 Dania Beach, FL 33004 954.920.0727 Cj2002@bellsouth.net	March 2016	NA	Honorary Member

EDUCATION ADVISORY BOARD
MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
Batia Dayan 3774 SW 49th Place Ft. Lauderdale, FL 33312 954-792-8211 – Work 917-755-5552 – Cell learnandsmile@yahoo.com	January 10, 2017	November 2016 through November 2020	Brandimarte
Diana Curry 113 NW 11th Avenue Dania Beach, FL 33004 954-923-7516 dcurry@aol.com	October 23, 2018	November 2018 through November 2020 (appointment taken over from Comm. Grace)	James
Mandraker Jagroop 4490 SW 24th Avenue Dania Beach, FL 33312 646-334-5743 mandray1989@aol.com	May 28, 2019	November 2018 through November 2022	Odman
Amy Urdaneta 261 SW 4th Street Dania Beach, FL 33004 954-558-7408 amyurdanetadvm@gmail.com	January 28, 2020	November 2018 through November 2022	Lewellen
Bonnie Carlton 1025 SE 2nd Avenue, #203 Dania Beach FL 33004 954-629-6006 (Cell) 954-920-8847 (Home) Bcarlton917@gmail.com	December 11, 2018	November 2018 through November 2020	Harris
Principal Tracey Jackson 754-323-5150 tracy.jackson@browardschools.com Assistant Principal Maureen Keenan maureen.keenan@browardschools.com		February 2013 through	Ex-Officio Collins Elementary School

EDUCATION ADVISORY BOARD
MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
Principal Lewis Jackson 754-323-5350 lewis.jackson@browardschools.com Assistant Principal Leslie Phillips leslie.phillips@browardschools.com		February 2013 through	Ex-Officio Dania Beach Elementary School
Principal Valerie Harris 754-323-3800 valerie.harris@browardschools.com		February 2013 through	Ex-Officio Olsen Middle School
		February 2013 through	Ad-Hoc

GENERAL EMPLOYEES PENSION BOARD
MEMBERSHIP
Friday, May 15, 2020

Name/Address Phone Number	Date Appointed	Term	Position
		June 22, 2020 through June 22, 2022	Commission Appointment
Luis G. Rimoli 902 Natures Cove Road Dania Beach, FL 33004 954-927-7161 954-478-0653 luis@stagedrightevents.com	February 26, 2019	March 22, 2019 through March 22, 2021	Commission Appointment
Adam Segal City of Dania Beach 100 W. Dania Beach Boulevard Dania Beach, FL 33309 954-924-6800 x 3620 asegal@daniabeachfl.gov	May 23, 2017	Open	Commission Appointment (Finance Director or Designee)
Leo Williams 8761 NW 10th Street Pembroke Pines, FL 33024 954-651-5031 leosupt@aol.com	May 2, 2018	June 21, 2018 through June 21, 2021	Employee Elected
Corinne Lajoie, Chair 3546 Coco Lake Drive Coconut Creek, FL 33073 954-651-5016 954-924-6805 x3704 corichurch.lajoie@gmail.com	August 14, 2019	June 21, 2019 through June 21, 2022	Employee Elected

GREEN ADVISORY BOARD
MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
		November 2018 through November 2022	Odman
Alexandra Hiley 1450 SE 3rd Avenue, Apt. 303 Dania Beach, FL 33004 603-769-0824 alexandrahiley@gmail.com	June 25, 2019	November 2018 through November 2020	Brandimarte
Alexis Guillen 4410 SW 26th Avenue Dania Beach, FL 33312 305-804-3309 alexis.guillen@miaminewtimes.com	January 22, 2019	November 2018 through November 2020	James
Patricia Chukerman 545 SE 4th Court Dania Beach, FL 33004 954-552-9996 (C) 954-929-8289 (H) bykermom@me.com	November 21, 2016	November 2016 through November 2020	Harris
Laura Lombardo 1401 NW 10th Street, Apt. South Dania Beach, FL 33004 954-258-1985 Laurarosey17@gmail.com	January 14, 2020	November 2018 through November 2022	Lewellen
David Simonetta 908 E Las Olas Boulevard Fort Lauderdale, FL 33301 954-837-3090 davidjsimonetta@gmail.com	January 8, 2019	November 2018 through November 2020	Ad Hoc (James)

MARINE ADVISORY BOARD
MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
Chris Barile 5099 SW 28th Avenue Dania Beach, FL 33312 954-989-8260 (Home) 954-494-1920 (Cell) chrisbarile@bellsouth.net	January 10, 2017	November 2016 through November 2020	Brandimarte
Thomas G. Angelos 218 SW 13th Street Dania Beach, FL 33004 954-670-6099 T_Angelos@yahoo.com	March 12, 2019	November 2016 through November 2020	Brandimarte
Linda Barber, Secretary 75 Gulfstream Road, Apt. 305 Dania Beach, FL 33004 954-328-8163 954-940-4969 Linda.barber1103@gmail.com	December 13, 2016	November 2016 through November 2020	James
Gregory Galyo 4496 SW 37 Avenue Fort Lauderdale, FL 33312 904-476-7252 954-397-1112 ggalyo@gmail.com	March 12, 2019	November 2016 through November 2020	James
Clive Taylor 642 NE 3rd Street Dania Beach, FL 33004 954-923-4439 (Home) 954-830-8855 (Cell) cetriumph@aol.com	December 11, 2018	November 2018 through November 2022	Lewellen
Sharon Malone 111 SE 1st Street #117 Dania Beach, FL 33004 954-662-9537 Sharon@thedestinationconnection.com	December 11, 2018	November 2018 through November 2022	Lewellen

MARINE ADVISORY BOARD
MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
Dean Grant 503 N 2nd Place Dania Beach, FL 33004 954-868-6247 deanggrant@bellsouth.net	December 11, 2018	November 2018 through November 2022	Odman
Craig Valentine 1982 Tigertail Boulevard, Bldg. #9 Dania Beach, FL 33004 954-505-3201 954-258-4848 (Cell) craig@gwaflorida.com	September 10, 2019	November 2018 through November 2022	Odman
Patrick Ferrante 324 S.E. 10th Street, #103 Dania Beach, FL 33004 pjf0307@gmail.com	August 27, 2019	November 2016 through November 2020	Harris
Richard Croker 186 NE 6th Court Dania Beach, FL 33004 954-662-4874	January 9, 2018	November 2016 through November 2020	Harris

PARKS, RECREATION & COMMUNITY AFFAIRS ADVISORY BOARD MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
Morris Goldwire 20 NW 13th Avenue Dania Beach, FL 33004 234-223-6467 Goldwire75@gmail.com	December 11, 2018	November 2018 through November 2020	Lewellen
Joyce L. Davis 500 NE 2nd Street, #227 Dania Beach, FL 33004 219-670-1066 joycel.davis@pearlgirlz.com	June 25, 2019	November 2018 through November 2020	Lewellen
Jeff Hansen (24 NE 1st Avenue) PO Box 1597 Dania Beach, FL 33004 954-929-9334 hlwdcahoot@aol.com	December 11, 2018	November 2018 through November 2020	James
A. Ivie Cure 209 NW 14th Court Dania Beach, FL 33004 954-927-0650 954-558-2775 (Cell)	February 26, 2019	November 2018 through November 2020	James
Sheila McCray 46 NW 14th Court Dania Beach, FL 33004 786-422-3707 sheilamac@sofftekk.com	May 14, 2019	November 2018 through November 2020	Harris

PARKS, RECREATION & COMMUNITY AFFAIRS ADVISORY BOARD MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
Dr. Tamara D. Fishman 837 NW 8th Avenue Dania Beach, FL 33004 786-356-4425 fishmantamara@hotmail.com	January 22, 2019	November 2018 through November 2020	Harris
Jimmie Peterman 717 SW 4th Terrace Dania Beach, FL 33004 954-925-2417 & 954-534-1771 jimmiepeterman@comcast.net	January 22, 2019	November 2018 through November 2020	Brandimarte
Richard "Rich" Aube 675 SE 2nd Avenue Dania Beach, FL 33004 954-922-9411 954-336-5110 (Cell) raube@forliferealty.com	February 12, 2019	November 2018 through November 2020	Brandimarte
Sharon Migicovsky 905 Natures Cove Road Dania Beach, FL 33004 954-394-3208 Misacb@aol.com	May 14, 2019	November 2018 through November 2020	Odman
Samantha Angelos 43 SW 12th Street Dania Beach, FL 33004 954-551-3646 954-987-2000 scangelos@hotmail.com	March 12, 2019	November 2018 through November 2020	Odman

PLANNING & ZONING BOARD
MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
Bobbie H. Grace 110 NW 8th Avenue Dania Beach, FL 33004 954-927-6838 (H) 954-396-0941 (C)	December 11, 2018	November 2018 through November 2020	James
Kenya J. Peterman 732 SW 2nd Place Dania Beach, FL 33004 954-699-8470 754-204-2740 754-322-6362 (W) mrssunshine01@yahoo.com	January 8, 2019	November 2018 through November 2020	Lewellen
W. Quin Robertson, Phd., GISP 805 Natures Cove Road Dania Beach, FL 33004 732-423-0039 561-361-3199 (W) qrobertson@att.net	December 11, 2018	November 2018 through November 2020	Harris
Kaleb Shafa 200 E Dania Beach Boulevard #204 Dania Beach, FL 33004 954-849-5887 kalebshafa@gmail.com	May 26, 2020	November 2018 through November 2020	Odman
Tony Suriani 1341 SE 3rd Avenue, #207 Dania Beach, FL 33004 954-801-8189 antoniospizza@hotmail.com	January 8, 2019	November 2018 through November 2020	Brandimarte
Charlotte Sloboda 2905 Lakeshore Drive Dania Beach, FL 33312 954-559-5473 csloboda@bellsouth.net	January 8, 2019	November 2018 through November 2020	Alternate

PLANNING & ZONING BOARD
MEMBERSHIP
Monday, November 16, 2020

Name/Address Phone Number	Date Appointed	Term	Commission Appointment
David Nuby, Jr. P.O. Box 1214 Dania Beach, FL 33004 954-275-2579 davidnuby@aol.com	January 22, 2019	November 2018 through November 2020	Alternate

CITY OF DANIA BEACH

OFFICE OF THE CITY MANGER

100 West Dania Beach Blvd · Dania Beach, FL 33004 · (954) 924-6800 · (954) 921-2604 (fax)

MEMORANDUM

Date: December 8, 2020

To: Mayor Tamara James
Vice Mayor Marco A. Salvino, Sr.
Commissioner Joyce L. Davis
Commissioner Lori Lewellen
Commissioner Lauren Odman

From: Ana M. Garcia, ICMA-CM, City Manager

Subject: Manager's Report

There are several exciting projects in the works and below are key updates.

We expect the Notice to Proceed for construction to be issued shortly for the demolition of Olsen Middle School. The contractor is prepared to mobilize immediately upon receipt of the NTP. Demolition of the old Olsen MS buildings is scheduled to commence over Winter Break 2020. The demolition of the buildings and the site restoration is expected to be completed in the 2nd quarter of 2021. We will continue to press on to ensure this long-awaited project is realized. My office will continue to seek updates.

Per your directive, we have secured the professional assessment of the West Wing area of City Hall to ensure ADA compliance is achieved as we take the next steps to bring on this valuable space of 2,500 square feet into our office/ conference room inventory. Attached you will find the information and cost estimate. My recommendation is to schedule a walk-through with you to see the space and a workshop to discuss possible usages. The architect/engineer would be available to present findings associated with the attached report.

We are in the last phase working with BSO IT to complete the few details pending prior to scheduling the ribbon cutting for our BSO/ police substation at Dania Pointe. Captain Marks will provide a timeline shortly. I will be ready to schedule a date with you at the first meeting in January.

Our payment kiosks have been successfully installed. Our goal was to provide a modern and enhanced customer service experience for our customers/ residents. The aforementioned will be achieved once we finalize the last phase of this project, the execution of an agreement to establish merchant accounts for the acceptance of checks and credit cards. This standard agreement is being reviewed by Legal as we seek to be fully operational in January of 2021. The kiosk will have the ability to collect payments 24/7 via cash, checks or credit card transactions for the payment of utility bills, and later allow for payments

of code compliance fines and parking tickets. Every day, we seek to provide enhanced services to our community.

The purchase order for strategic planning was carried forward from last year's approved budget to fiscal year 2021, as we seek to complete this very exciting and necessary exercise that will produce our adopted Strategic Plan for Dania Beach and bring us closer as a Team, as I have experienced. This plan once adopted will be the blueprint for the future, a compass that allows us to better navigate the budget process. Furthermore, an adopted strategic plan better positions the City of Dania Beach for grants and funding from Federal, State and County agencies. Currently, we are awaiting dates from the Sumek Group to schedule with you as well as our senior administrative team. From my initial conversation with Mr. Sumeck, January dates will be available for your consideration.

Additionally, please see attached detailed reports from all departments as we continue to keep you updated with all that is occurring both internally and externally in our City.

CITY OF DANIA BEACH
HUMAN RESOURCES DEPARTMENT

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

MEMORANDUM

DATE: **November 30, 2020**

TO: Ana M. Garcia, ICMA-CM, City Manager

VIA: Candido Sosa-Cruz, Assistant City Manager

FROM: Linda Gonzalez, SPHR, SHRM-SCP – HR / Risk Management Director *LG*

RE: **Human Resources and Risk Management Report**

The following is a summary of Human Resources and Risk Management activities:

- Positions filled:
  - FT Beach Lifeguard (promotion from part-time)

- Open/To be open Recruitments:
  - Assistant Director, Parks & Recreation – closes on 12/11
  - Cemetery Caretaker – Offer extended, pending background process
  - GIS Technician – HR preparing to schedule interviews on 12/2
  - Administrative Specialist II – recruitment closed, and review of resumes taking place
  - PT Beach Lifeguard – pending requisition from Department

- Human Resources completed renewal of the City's Aetna Medicare Insurance Supplement Plan for retirees and their dependents who are eligible for Medicare for the plan year beginning January 1, 2021. Through our broker, the City negotiated an overall decrease for the insurance renewal of 2.8%. On November 16 2020, Human Resources completed the renewal of the City's Aetna Medicare Insurance Supplement Plan for retirees and their dependents. These participants are eligible for Medicare for the plan year beginning January 1, 2021. Eligible retirees received letters advising of changes in premiums and how to make elections and/or changes.

- Human Resources completed the open enrollment period for employees who wish to continue or add a flexible spending account (FSA) or dependent care flexible spending account. The FSA allows employees to set aside tax-free dollars for medical and dependent care expenses and lower taxable income to save money. A total of fifteen (15) employees chose to participate in this benefit.

- Employees have been notified that the 20/21 new Safety Training Program has begun. All employees have been assigned Safety Training to include sexual harassment. Supervisors have been assigned training to include sexual harassment for supervisors in addition to reasonable suspicion trainings. Full-time employees who complete eight (8) hours of safety training by 9/30/2021 are eligible to earn a safety day for the following Fiscal Year.

- Human Resources will be working with all Departments to kick-start a new Onboarding Program to tentatively begin January 2021. The goal of this program is to integrate new employees with the City and its culture, as well as provide hires with the tools and information needed to become a productive member of the Dania Beach team. A great on-boarding program supports employee engagement, and retention. On-boarding also helps new employees discover how their roles fit in with their Department, the rest of the workforce and the City. On-boarding can facilitate relationship building and overall job satisfaction. HR will be sending out communication regarding dates for the new onboarding program that is scheduled to tentatively begin 1/2021. The City Administration also provided a 4.5-hour on-boarding session for our two newly elected officials.

- HR met with CDL drivers in Public Services and Finance in order to ensure compliance with Federal Requirements. CDL drivers have been informed that random drug testing will begin 12/2020 to be in compliance for 2020 and will continue as required in 2021. Drivers have been provided forms to have DOT pre-employment and physical completed as well as a DOT drug screening to ensure FDOT compliance.

- On December 4, the City will hold our third Safety Committee Meeting. The goal of the safety committee is to focus on employee safe practices and accident reduction for employees, residents and visitors. The committee reviewed a new safety handbook and newly created writeable forms for accident reporting, which is now pending final review. The next Committee will focus on recommendations for employee safety training for Departments as well as City-wide training, such as Active Shooter training. Several members of the safety committee submitted training suggestions for individual department as well as Citywide trainings to focus on a safe working environment.

- The City is currently exploring options to work with the Florida Municipal Trust Fund (FMIT) to explore options for a January (virtually focused) wellness program for employees.

- Human Resources continues to look at process improvement in all areas of the Department to streamline the workflow and provide the highest level of service to our customers. In December, HR will be working with Finance to look at integration options between New World and Bentek. Human Resources is also working to finalize audit processes between Bentek and New World.

CITY OF DANIA BEACH
PARKS AND RECREATION DEPARTMENT

MEMORANDUM

DATE: December 8, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

FROM: Eric Brown, Parks & Recreation Director

SUBJECT: Parks and Recreation Updates

Parks and Recreation Department Updates

On November 3, 2020, was General Election Day. Our main facilities within Parks & Recreation, C.W. Thomas Park, Frost Park and PJ Meli Park were host sites for the elections.

On November 19, 2020, our Youth Advisory Council meeting took place. The staff were able to have various discussions with 3 members of the council via Zoom. All Youth Advisory Council meetings have taken place virtually since the outbreak of COVID-19.

On November 19, 2020, our Gracefully Aging Team was able to do a Thanksgiving Basket Giveaway. Park staff stuffed baskets with plenty of essentials and gave them out to our older population. A total of 88 baskets were handed out. This event followed all CDC guidelines.

On November 20 & 21, 2020, employees from Parks & Recreation attended a CPR/AED Training hosted at Southwest Community Center. This training properly certified those who attended the class. This event followed all CDC guidelines and protocols as each class consisted of less than 10 people (20th Class: 8 people & 21st Class: 6 people).

During these uncertain times with covid-19, out Parks Team has remained vigilant in sanitizing playground equipment, indoor/outdoor equipment and all surfacing and amenities around Park facilities.

On December 3, 2020 at 6pm, Parks and Recreation will host the City of Dania Beach annual "Tree Lighting". Due to covid-19, this event will be live streamed. (City Hall)

On December 14, 2020 at 6pm, Parks and Recreation will host the City of Dania Beach 2nd annual Menorah lighting event. Due to covid-19, this event will be a virtual event. (City Hall)

On December 21, 2020 at 6pm, Parks and Recreation will host its first annual Kwanzaa celebration. Bishop Scott from St. Ruth Missionary Baptist Church will read the first principle of Kwanzaa, with is "Umoja" meaning Unity. Due to covid-19, this will be a virtual event. (City Hall).

CITY OF DANIA BEACH
PUBLIC SERVICES DEPARTMENT

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

MEMORANDUM

DATE: December 8, 2020

TO: Ana M. Garcia, ICMA-CM, City Manager

FROM: Fernando J. Rodriguez, Public Services Director
Dincer A. Ozaydin, Deputy Director/City Engineer

RE: **PUBLIC SERVICES ACTIVITIES – NOVEMBER 11, 2020 to DECEMBER 7, 2020**

Below is summary of the main Public Services Department (PSD) activities for the past four weeks:

- The Facilities Foreman position was filled and the incumbent is in the process of becoming familiar with the city and Public Services operations.

- The City Hall walk-up payment kiosk adjacent to the main entrance door was installed. This will facilitate payments for various City services, and represents an enhanced level of in-person payment safety and customer service.

- Advertisement for bids for the NE 2nd Street Water Main Replacement Project was placed and the pre-bid meeting was held in early December. The bid process is projected for completion by year's end, to be followed by the actual construction of the project in the early spring of 2021.

- The 10 palm trees damaged from a vehicular accident at the westernmost section of the E. Dania Boulevard median were replaced.

- The refurbishing of the Finance Department offices was completed, including floor replacement, drywall work, and painting.

- Refurbishing of sanitary lift station #5 was completed and work will begin by mid-December on lift station #10. When completed, these lift stations will improve the reliability and efficiency of a critical service to our residents.

- Final selection of the primary, secondary, and tertiary contractors for disaster debris removal and debris monitoring. This is a critical component to our preparation for the post-storm recovery phase for the hurricane season.

- The Consultant Competitive Negotiation Act (CCNA) RFQ was advertised and responses have been received. Evaluations were completed in November, to be followed by selection committee deliberations and final ranking. This process is expected to be completed by mid-January and will

\continued...

FJR/fjr

result in a list of pre-qualified consultants for various engineering/architectural and urban planning services. It will enable the city to complete projects much faster since the lengthy RFQ process required to engage these type of technical services will no longer be required.

Grant Funding

Beach Renourishing – "Segment III" Project: The U.S. Army Corps of Engineers (USACE) expects to begin this project in November 2021. The City will provide USACE with a design plan, so the dunes are part of the Project. The City and County will share the Project's dune portion's cost, and the USACE pays all other expenses.

Florida Communities Trust Stewardship Report: The Public Services and Recreation departments conducted a site review of Dania Cove Park and submitted the required annual stewardship report. The review resulted in the need for sign replacement and exotic plant removal. Florida Community Trust grant funds purchased the land and paid for Dania Cove Park's development.

Transportation Surtax: In conjunction with the Legal Department, Public Services is pursuing the funding agreement with Broward County for three Surtax funded projects: design SE Drainage; construction of SW 43 Terrace drainage; and street maintenance projects. Contracts are on hold until the Broward County Commission provides cities with the second amendment to its interlocal agreement.

FJR/fjr

CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

DATE: December 1, 2020

TO: Ana M. Garcia, ICMA-CM, City Manager

VIA: Candido Sosa-Cruz, Assistant City Manager
Eleanor Norena, CFM, Community Development Director

RE: Manager's Monthly Report – November 2020 – Community Development Department

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The following is a summary of Community Development Department activity during the month of November.

Special Projects

Mobility Study: The research, data and analysis phase of the study is primarily completed. The public outreach and information phase of the study has been delayed due to the COVID-19 crisis. This phase of the project is critical to the development of the plan. One-on-one meetings, public meetings and meetings with agencies will be replaced with on-line surveys, emails and virtual meetings. The coordination of these new efforts are in process. The public outreach will be conducted throughout the remainder of the study with the most public activity occurring in early 2021.

Public Art Ordinance: The City Commission has adopted an ordinance that creates an account for dedicated revenues from developer contributions (and other funds) that will be used for the purchase, creation and installation of public art. Staff has established the permitting system and revenue account to calculate and receive the Public Art funds. Public Art fees are anticipated to be collected in the next few months as a few projects are currently under review. The adoption of the Master Plan and Guidelines will properly implement the new ordinance. Community Development has collected $70,000 in the Art in Public Places Fund. Staff has worked with Broward County Cultural Division to launch a survey asking residents about their thoughts regarding Public Art. This survey will close on December 18, 2020.

Building Division

The Building Department received 102 permit applications and issued 84 permit applications. The Building Department issued one Certificate of Occupancy for the alteration of an existing office building located at 225 East Dania Beach Boulevard.

All inspectors, plan reviewers and administrative staff continue to work remotely and in staggered shifts to ensure all inspections and permitting continues seamlessly. The Building Department is currently accepting drop- offs and pick-ups via the drop box located outside of City Hall Monday

through Friday from 8:00 a.m. - 5:00 p.m. We continue to implement online payments for residents, contractors, and accepting checks in the finance utility box for customers without internet access.

Plan reviewers and inspectors, provided by CAP and Broward County; continue to utilize the laptops and WiFi hotspots to limit access to City Hall. We continue to log temperatures at the start of each day to ensure our health and safety and maintain proper precautions.

Planning and Zoning Division

The following projects are recent submittals for DRC:

Harbor Landing – This project is a proposed residential development, located at 4695 SW 45th Terrace. It is part of a larger, mixed-use development adjacent to the west, which is situated within the City of Hollywood. The Dania Beach application is to permit the construction of an eight-story apartment building with 275 residential units (including 15% affordable housing) on the east portion of the development. The complete project entails applications to amend the Land Use and Zoning designations, and for Plat and Site Plan approval.

Saratoga Crossings III - The site plan and plat is located at 840 and 850 West Dania Beach Blvd in the NBHD Neighborhood Residential zoning district. The site is proposed to be redeveloped with a five (5) story, seventy-five (75) unit multifamily residential apartment building, similar to Saratoga Crossings I & II. There is one application pending for site plan review, and another application for the required Plat, which also includes the vacation of an unnecessary right-of-way easement. The application will be presented to the City Commission in November/December.

Dania Beach Marina a/k/a Wave 70 & 90 - The Site Plan and DDG for this project was submitted for review in March. The proposed project includes two mixed-use buildings, both 16-stories tall with a total of 160,000 square feet of proposed commercial space and 760 proposed dwelling units. The applicant has requested to be scheduled for the December 8, 2020 City Commission meeting.

Pannattoni - The applicant is proposing to develop a 4.34 gross acre parcel located at 1900 NE 7th Avenue. The applicant is proposing to construct a new 82,197 square foot warehouse building on the property. The property is currently vacant and has a future land use designation of Employment Center and an IRO zoning designation. City Commission approved on October 13, 2020.

ARG Office - The applicant is requesting the modification of a previously approved site plan for the construction of a one-story building with 3,500 square-foot of professional office building space located at 4025 Ravenswood Road. This project is currently scheduled for November 18th Planning & Zoning Board meeting.

Palms by the Water – This Site Plan is for townhouses which was previously denied and has been resubmitted now showing docks. This project is currently scheduled for November 18th Planning & Zoning Board meeting.

GMAX – Single Family – This applicant is proposing three (3) new single family homes which requires Site Plan approval. This project is currently going through DRC review.

Prime Realty – This applicant is proposing a new 6,000 square foot office/repair shop on SW 26th Terrace. This project is going through DRC review.

ROMI Building - The Site Plan for the project is in DRC review. The project is for a mixed-use building on South Federal Highway. The project proposes 11,000 square feet of commercial and 44 dwelling units.

800 Old Griffin Road - This Site Plan is a new application to vacate NW 3rd Place, to redesign the existing building, develop the vacant lot under the power lines for boat storage, and build docks on the Dania canal. This is a new (Runway) application going through DRC review because the previous application was denied by the City Commission.

USC&R – This project is located at 3035 SW 36th Street and is currently a nursery. The applicant is proposing at 113,000 square foot office/warehouse building. This project is currently going through DRC review.

Code Enforcement and Parking Division

- Code had a Special Magistrate Hearings which on October 29, 2020 and November 19, 2020. These hearings contained COVID-19 related cases as well as a few back logged cases.

- Code Enforcement Officers are patrolling the City of Dania Beach Monday through Sunday from 8:00 a.m. – 8:00 p.m. enforcing Covid-19 related complaints as well as performing spot checks to help stop the spread of COVID-19.

- Parking Enforcement staff is currently assisting Code Officer's with enforcement of the City's Emergency Orders in the beach parking lot and pier.

- Code is delivering all approved outdoor seating permits to restaurants and are ensuring they are in compliance.

- COVID-19 Stats for November - Code Staff has done 352 spot checks on businesses, responded to 13 Complaints from the Broward County Q Alert system and 0 complaints from the City Hotline.

- The Code Enforcement office is being remodeled to accommodate the new security door purchased as part of our new social distancing guidelines.

CITY OF DANIA BEACH
COMMUNICATIONS
PUBLIC INFORMATION OFFICER

DANIA BEACH
SEA IT. LIVE IT. LOVE IT.

MEMORANDUM

DATE: November 2020
TO: Ana M. Garcia, ICMA-CM, City Manager
VIA: Candido Sosa-Cruz, Assistant City Manager
FROM: Katia Bordy, Public Information Officer
SUBJECT: PIO Communications

Ongoing Communication
The City's website, social media and TV Channel 78 is continuously updated with relevant, new, and important information. All City Departments receive media support on a variety of projects.

Below are the latest social media and website communications including any special event activities:

- Designed and distributed the **Annual Tree Lighting Ceremony** with a special guest on Dec. 3rd at 6 p.m. The event will be live streamed on Facebook.
- Created and advertised the **Youth Advisory Council Roundtable** Talk via Zoom for high school students to discuss current events, returning to school and more.
- Ongoing distribution of the **CARES Act Assistance Program.** The application portal closes Dec. 2. The campaign comprised a mailer to all small businesses, website updates, social media posts daily, and sharing on the CRA platforms.
- Promoted and covered the **Swearing-in Ceremony** welcoming Mayor Tamara James, Vice-Mayor Marco A. Salvino, Sr. and Commissioner Joyce L. Davis to the commission.
- Distributed Weather Alerts on strong winds and flooding as **Tropical Strom ETA** churned South Florida. Gov. Ron DeSantis had declared a state of emergency in parts of the state.
- Launched a campaign to invite residents to respond to a **#art4dania survey** to share their input on the public art planning process to engage the community. The City commissioned Broward County's Cultural Division to implement a Public Art Masterplan.
- Designed collateral and promoted **Family Night at Dickey's Barbecue Pit** in Dania Pointe every Tuesday from 3pm-9pm with specials for families and City Staff.
- Ongoing distribution of **Easy Access to Services,** updated to include **Ask Dania Beach App** to remind residents that all city departments are open and continue to provide services.
- Continued promotion of **ASK Dania Beach App** to report concerns.

DANIA BEACH
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CITY OF DANIA BEACH
BROWARD SHERIFF'S OFFICE (BSO)

MEMORANDUM

DATE: **November 19, 2020**

TO: Ana M. Garcia, ICMA- CM, City Manager

FROM: Daniel J. Marks, Captain

RE: **Dania Beach Memo to City Manager for Commission Meeting**

This memorandum is in reference to the monthly update.

The Dania Beach Neighborhood Support Unit will be participating in a Christmas event on Tuesday December 15, 2020 at 5:00pm. The event is called "The Sheriff's Winter Wonderland". The Public Safety Building (2601 West Broward Boulevard) parking lot will be completely transformed to reflect a winter theme.

Our Deputies will be decorating and working the event. Our Deputies have been collecting and donating toys to give away. We have collection boxes at our stations (803 NW 1st Street and 4601 SW 30th Avenue). We will be collecting toys up until the deadline of December 7th.

Each of our 3 School Resource Deputies will be selecting children to attend this event.

We have seen a rise in catalytic converter thefts from vehicles. We currently have 9 active cases. We have identified the suspects who are responsible for numerous thefts throughout South Florida and we hope to have them in custody soon.

I will provide a crime update during the meeting as well.

That completes my report.

CITY OF DANIA BEACH
BROWARD SHERIFF'S OFFICE (BSO)

EXTERNAL MEMORANDUM

DATE: **December 1, 2020**

TO: Ana M. Garcia, ICMA- CM, City Manager

FROM: Sergio Pellecer, District Fire Chief

RE: **Dania Beach Memo to City Manager**

Please see the requested information below concerning the last two weeks- November 3, 2020 – December 1, 2020 of the meetings and day to day operations for the BSO Fire Rescue and Emergency Service in Dania Beach:

- Daily morning BSO conference calls – Department Head direction for the day.
- Daily monitoring of Fire Stations and personnel safety
- Weekly monitoring of Nursing homes and Group homes – Fire Marshal's Bureau
- Weekly agenda review team conference call 11/30/2020
- Bi-Weekly Municipal Conference Call COVID-19 Situational Awareness
- BSO Ops Conference call with District Chiefs
- Weekly Conference NWS (National Weather Service- South FL)
- Regular Commission Meeting
- Continued Vulnerable Population Training Complete
- Hydrant maintenance scheduling for next (3) months for ISO standards.
- Fire Safety Presentations – Schools in Dania Beach
- Safety Committee – Dania Beach
- Bid Committee – Dania Beach Fire Station Grant
- Completed Christmas toy drive with Kim Butler – Dania Pointe
- Continued work on SCBA filling Station order for Station 17
- Working on Tool order for Fire Station 1 and 17
- Plumbing Repairs at Station 1
- Assisted with Swear in Ceremony set up
- Attended Vendor Expo at Hollywood Training Facility to introduce myself to new Hollywood Fire Chief
- Damage assessment of our Beach with Broward County representative.
- Labor Management meeting

CITY OF DANIA BEACH
MEMORANDUM

DATE: December 1, 2020

TO: Ana M. Garcia, City Manager, ICMA-CM

FROM: Frank DiPaolo, Finance Director

SUBJECT: Finance Department Update

The new fiscal year is well underway. The City received its first property tax payment last week which was approximately $5 million. Most of the annual tax levy will be received in December and the funds will be invested in the City's interest-bearing accounts.

The City's annual audit is underway this week. HCT-CPA have begun their preliminary fieldwork, and will conduct the audit in mid-December. In addition, the City will have a Federal Single Audit this year due to the receipt of FEMA funds, related to Hurricane Irma in 2017. HCT-CPA will perform this compliance audit. Additionally, the CRA will have a separate stand-alone audit this year as required by statute, which will also be conducted by HCT.

The City continues to mitigate the threat of Covid-19, keeping offices sanitizing and replenishing PPE stock when necessary. Finance submitted its initial request for reimbursement under the Cares Act for approximately $250,000 and the submission is currently under review by the County's independent contractor.

As previously reported, Finance procured contactless payment kiosks. One has been installed outside City Hall, and the other will be installed inside the atrium. These kiosks will allow customers to make payments 24/7 and without staff interaction. The data connection between the kiosks and New World Systems has been established and currently undergoes testing, and the kiosks should be ready for use shortly.

The City recently conducted RFP's for disaster debris removal and monitoring services. The City previously piggybacked these contracts, which FEMA no longer allows. Therefore, it is imperative that the City award the contracts through a competitive process and will go to the City Commission for approval on December 8th.

Lastly, below are several initiatives that Information Technology has recently completed/are in process:

- Upgraded the Beach/Marina WiFi system
- 90% complete in migrating email accounts to Microsoft Office365
- Completed the City Commission Chamber Video System Upgrade
- Upgraded and re-established the Public Services – City Hall wireless connection, providing for a faster and more reliable, secure connection
- Re-design of the City's employee intranet using Microsoft SharePoint is in process
- CISA/Department of Homeland Security will be conducting Phase 2 of its Cybersecurity Assessment of the City's networking infrastructure, which will identify vulnerabilities and allow for a more secure City network

DANIA BEACH
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CITY OF DANIA BEACH
FINANCE DEPARTMENT
MEMORANDUM

TO: Ana M. Garcia, City Manager, ICMA-CM

FROM: Adam Segal, Assistant Finance Director

DATE: December 1, 2020

SUBJECT: Monthly Business Tax Licensing

Manager,

Per your request attached hereto is the Monthly Business Tax Receipt report reflecting new businesses.

DANIA BEACH
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Business Listing Report

Business Start Date 11/01/20 - 11/30/20
Report By Business Name

Business	Licensee	Address	Phone	Extension	Start Of Business	End Of Business
307 W DIXIE LLC	307 W DIXIE LLC	307 W DIXIE HWY, Dania Beach, FL 33004	(786) 271-5651		11/16/2020	
BEAUTY BY ILA LLC	BEAUTY BY ILA LLC	9 N FEDERAL HWY, Dania Beach, FL 33004	(954) 893-3738		11/23/2020	
BLANCO ENTERPRISES INC	BLANCO ENTERPRISES INC	1024 SE 3 AVE 207, Dania Beach, FL 33004	(786) 344-0041		11/05/2020	
COMCAST OF FL LLC	COMCAST OF FL LLC	1780 STIRLING RD STE 101, DANIA BEACH, FL 33004	(215) 286-7557		11/30/2020	
DANIA DOORS MANUFACTURING LLC	DANIA DOORS MANUFACTURING LLC	2365 SW 34 ST 8, Dania Beach, FL 33312	(954) 353-4473		11/30/2020	
DUMILE C WAGNER	DUMILE C WAGNER	500 NE 2 ST 323, DANIA BEACH, FL 33004	(954) 682-2468		11/24/2020	
E SCIENCES INCORPORATED	E SCIENCES INCORPORATED	200 E DANIA BEACH BLVD STE 106, DANIA BEACH, FL 33004	(954) 484-8500		11/17/2020	
JAY SCOTTS COMPANY	JAY SCOTTS COMPANY	410 SW 4 TER, Dania Beach, FL 33004	(954) 922-3939		11/17/2020	
MARIA BEJARANO	MARIA BEJARANO	38 SE 3 PL, Dania Beach, FL 33004	(787) 379-7543		11/16/2020	
MORGAN BAYIT 206 LLC	MORGAN BAYIT 206 LLC	290 SW 9 ST, Dania Beach, FL 33004	(305) 376-0640		11/18/2020	
POLI LED & SIGNS	POLI LED CORPORATION	1340 STIRLING RD 1C & D, DANIA BEACH, FL 33004	(305) 468-8986		11/30/2020	
R & B INDUSTRIES	R & B INDUSTRIES	1210 STIRLING RD A 9, DANIA BEACH, FL 33004	(305) 978-7920		11/17/2020	

Businesses 12

CITY OF DANIA BEACH
FINANCE DEPARTMENT

MEMORANDUM

TO: Ana M. Garcia, City Manager. ICMA-CM

FROM: Adam Segal, Deputy Finance Director

DATE: November 17,2020

SUBJECT: Finance Monthly Report –October 2020

Please find attached the month Finance report. Highlights of the report include the following:

Revenues

- Building Fund Revenues
- Pier Revenue
- Beach Parking Revenue
- Marina Revenues
- Commercial Solid Waste Hauler Franchise Fees

Capital Projects

- Capital Projects Fund
- Enterprise Funds
    - Water
    - Sewer
    - Stormwater
    - Marina
- Grant Funds
    - City Grants
    - CRA Grants

Information Technology

- Online Credit Card Payments
- Beach Camera Views
- Website Visits by Device
- Commission Meeting Views
- Number of Citywide Phone Calls
- Number of E-Bill Users by Month

Business Tax Receipt Activity

- Out of Business/Inactive
- New Applications

Utility Reports

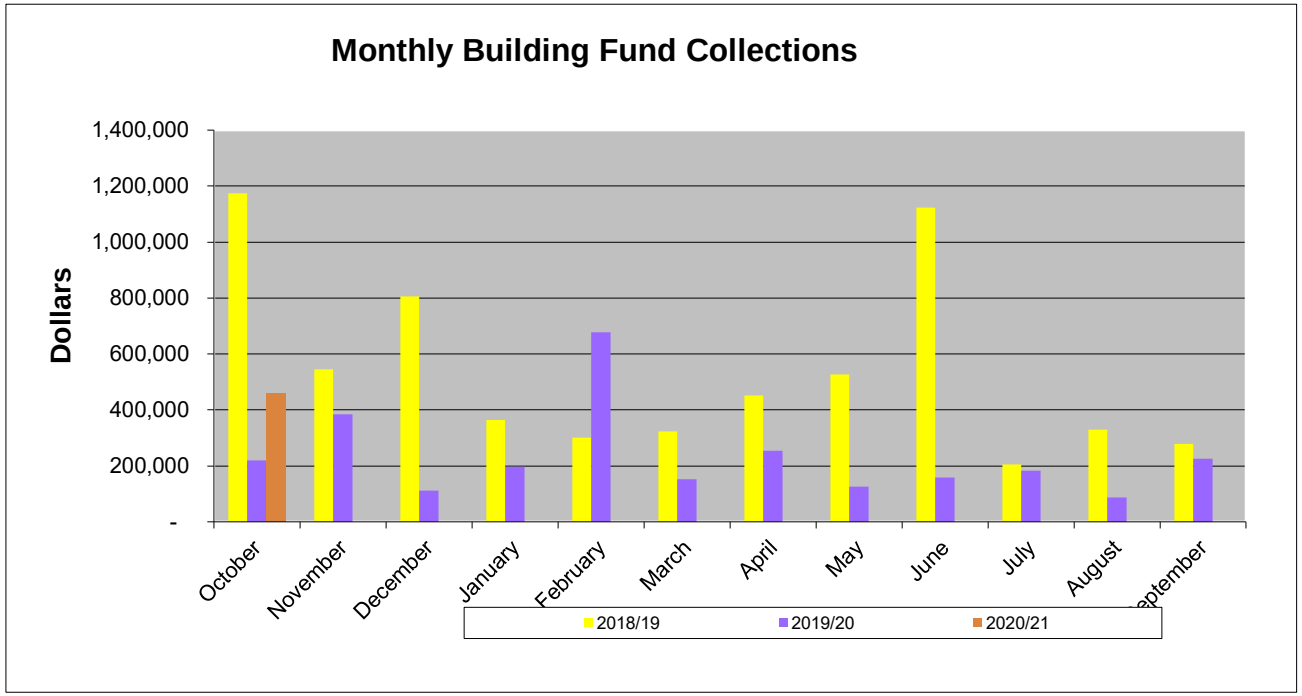
- Delinquency Report
- Meter Replacement Reports
- Aging Report

Contingency and Fund Balance Estimate

Building Fund Collections

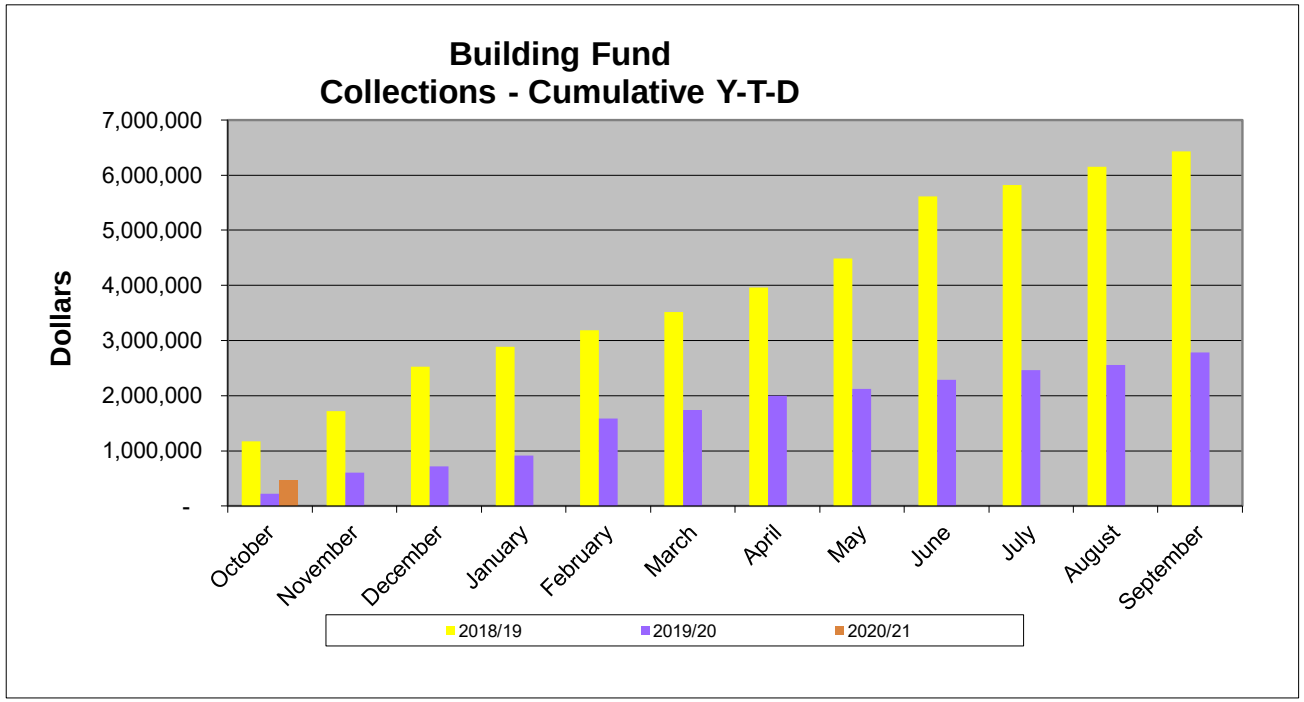
Building Fund - thru October 2020

Monthly	2018/19	2019/20	2020/21
October	1,175,262	218,842	456,717
November	544,467	383,986	
December	804,921	110,855	
January	364,720	197,296	
February	300,427	677,686	
March	323,671	152,797	
April	451,112	254,963	
May	527,681	126,368	
June	1,123,013	159,353	
July	204,154	182,848	
August	329,526	88,029	
September	278,138	225,951	
Total	6,427,092	2,778,973	456,717



Cumulative	2018/19	2019/20	2020/21
October	1,175,262	218,842	456,717
November	1,719,729	602,828	
December	2,524,650	713,683	-
January	2,889,370	910,978	-
February	3,189,797	1,588,665	-
March	3,513,468	1,741,462	-
April	3,964,580	1,996,424	-
May	4,492,261	2,122,792	-
June	5,615,274	2,282,145	-
July	5,819,428	2,464,994	-
August	6,148,953	2,553,023	-
September	6,427,092	2,778,973	-
Annual Goal	**4,600,818**	**5,268,000**	**4,747,331**

Shut down due to COVID-19



Parking Fee Collections

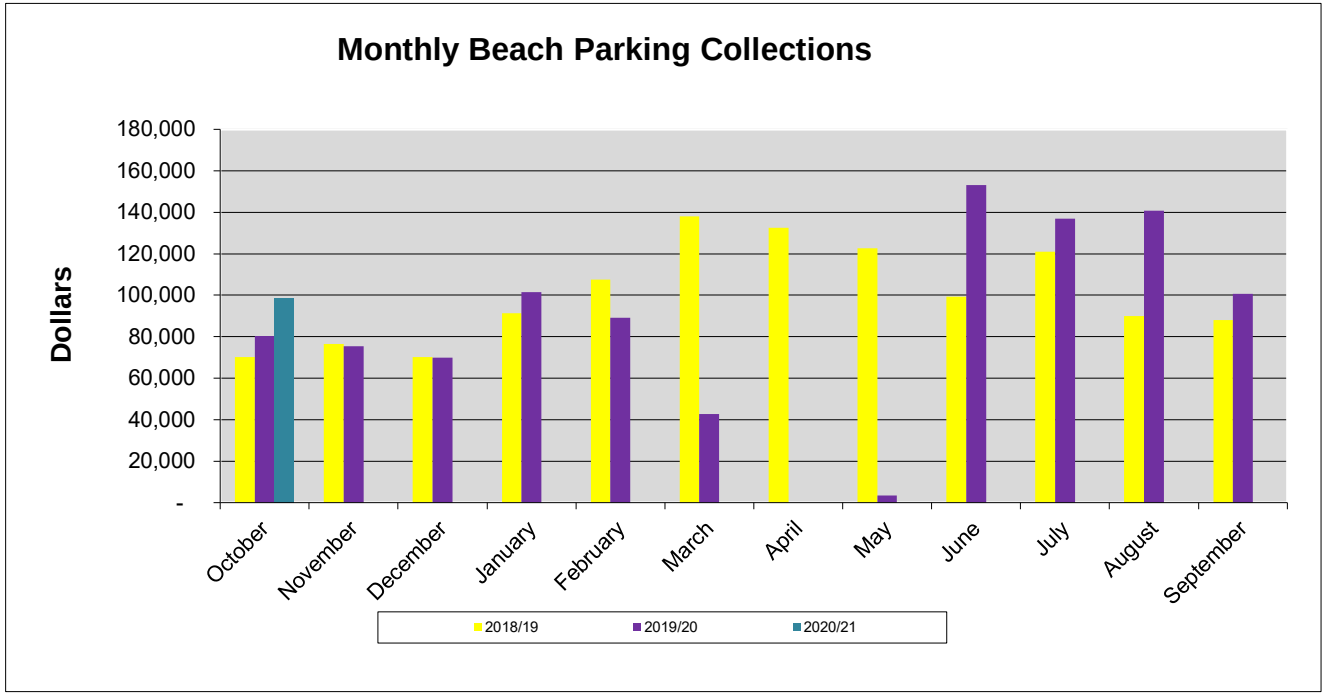
Beach Parking - thru October 2020

Monthly	2018/19	2019/20	2020/21
October	70,074	80,310	98,451
November	76,505	75,366	
December	70,225	69,806	
January	91,368	101,586	
February	107,600	89,239	
March	138,030	42,686	
April	132,525	-	
May	122,734	3,577	
June	99,416	153,086	
July	121,078	136,900	
August	90,092	140,789	
September	88,120	100,699	
Total	1,207,766	994,044	98,451

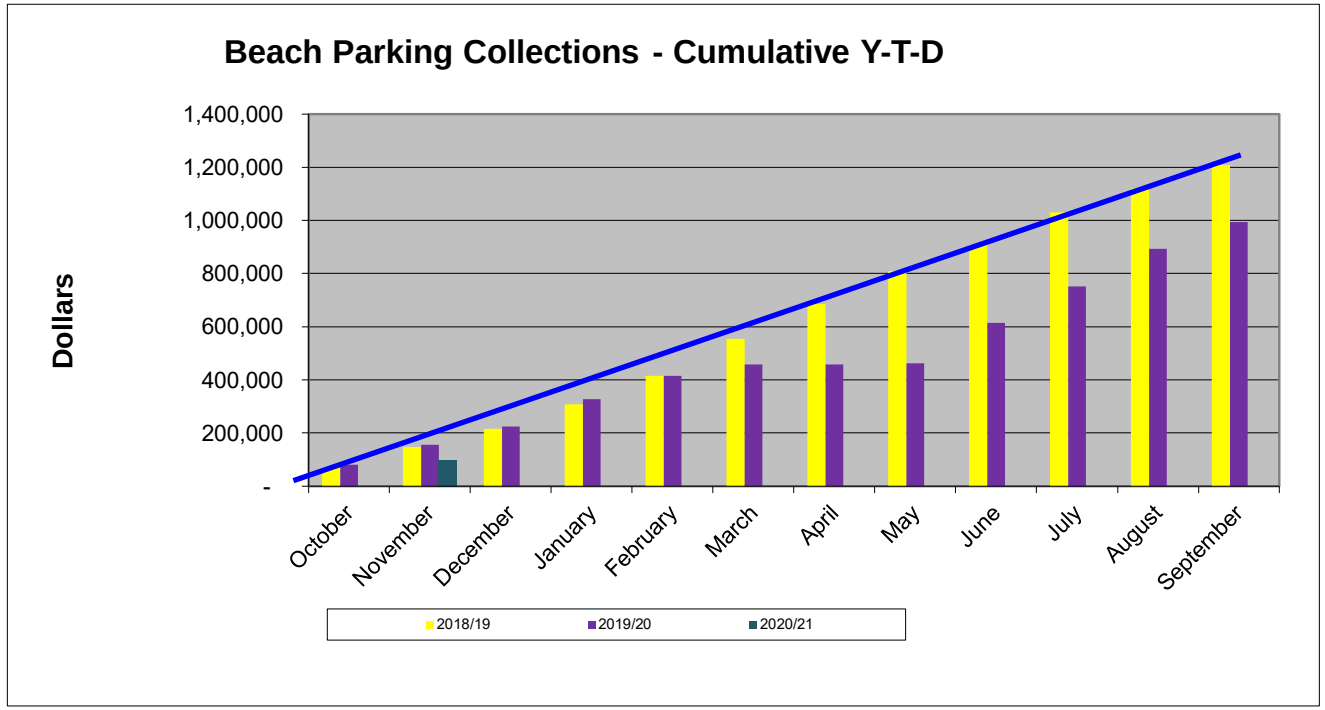
Parking down due to Hurricane Irma -beach closure

Heavy Rains during the month of May affected beach goers

COVID-19 shut down



Cumulative	2018/19	2019/20	2020/21
October	70,074	80,310	
November	146,579	155,676	98,451
December	216,803	225,483	
January	308,171	327,069	
February	415,771	416,308	
March	553,802	458,993	
April	686,326	458,993	
May	809,060	462,570	
June	908,477	615,656	
July	1,029,555	752,556	
August	1,119,646	893,345	
September	1,207,766	994,044	
Annual Budget Goal	**1,282,367**	**1,219,032**	**1,094,352**



Pier Revenues

Pier Revenues - thru October 2020

Monthly	2018/19	2019/20	2020/21
October	38,743	56,498	49,128
November	46,891	53,409	
December	49,729	39,713	
January	49,407	67,274	
February	51,283	56,030	
March	317,751	35,125	
April	45,624	152	
May	68,359	9,475	
June	54,747	39,975	
July	73,113	41,848	
August	50,941	48,348	
September	60,729	48,972	
Total	907,317	496,818	49,128

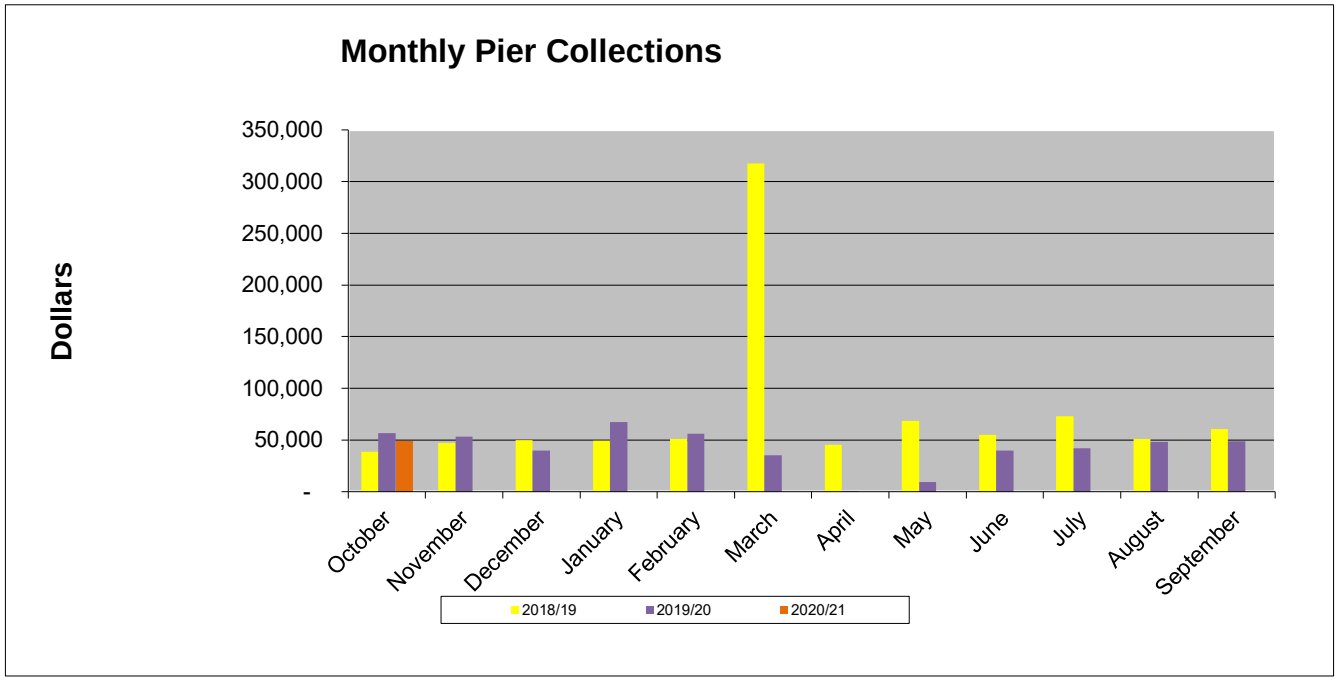
Prolonged heavy rains affected the pier sales in May

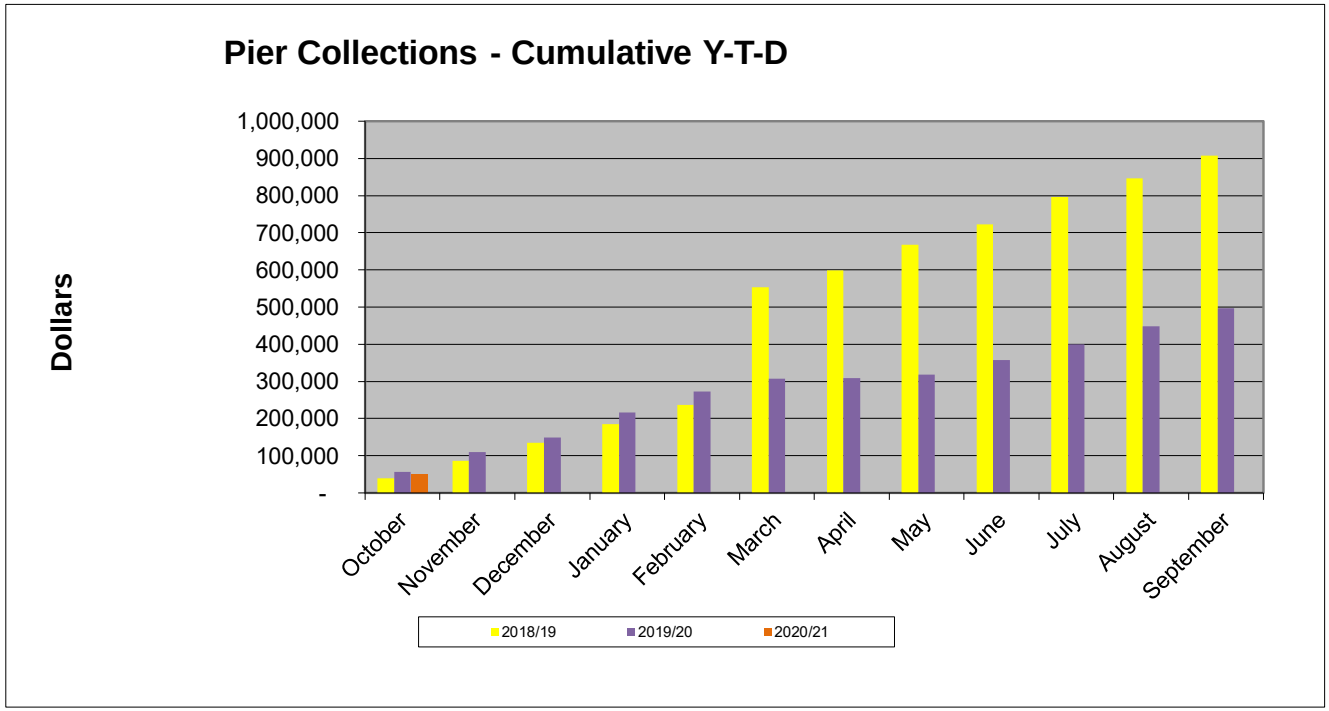
Shut down in March due to Corona Virus

Balance includes true-up for the annual rent of the Quarterdeck based on the lease agreement.

Cumulative	2018/19	2019/20	2020/21
October	38,743	56,498	49,128
November	85,635	109,907	
December	135,363	149,620	-
January	184,770	216,894	-
February	236,054	272,924	-
March	553,805	308,049	-
April	599,429	308,201	-
May	667,788	317,676	-
June	722,535	357,650	-
July	795,648	399,498	-
August	846,589	447,846	-
September	907,317	496,818	-
Annual Budget Goal	**918,859**	**914,098**	**773,952**

In 2018/19 the Quarterdeck Restaurant Revenues were moved to the Pier fund from General Fund to better reflect their usage.



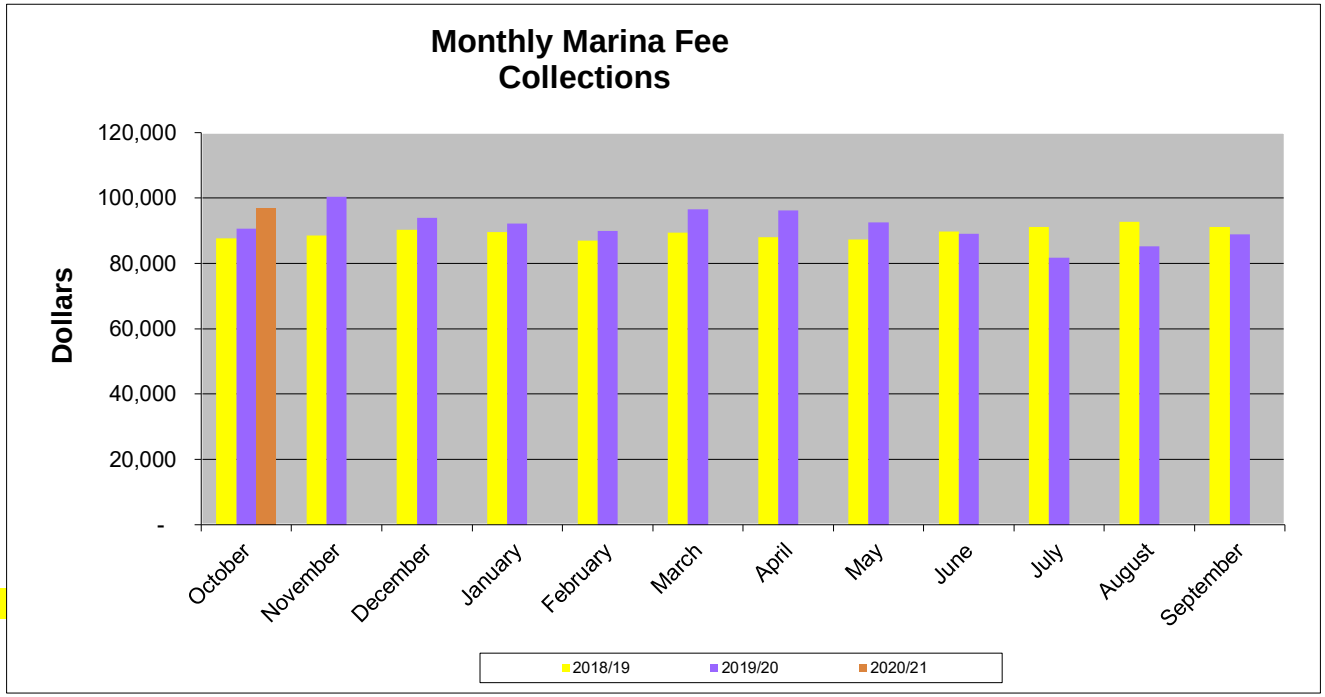


Marina Fee Collections

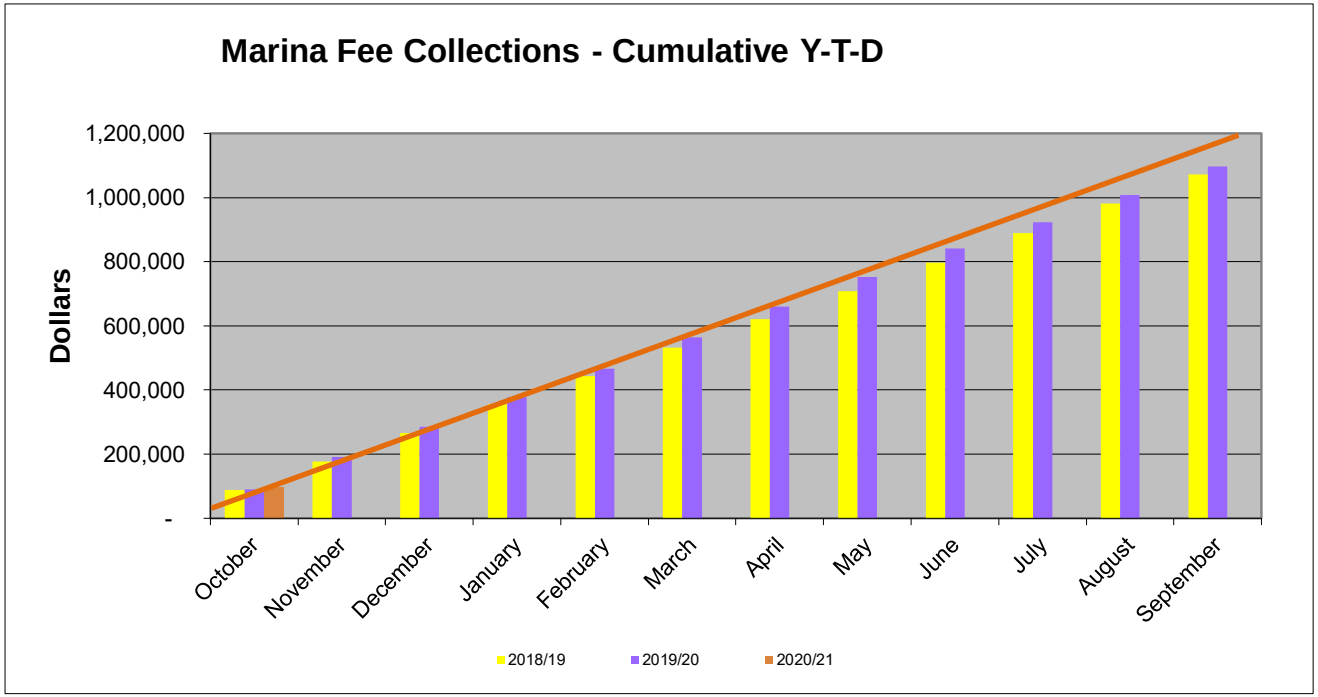
Marina Fees - thru October 2020

Monthly	2018/19	2019/20	2020/21
October	87,598	90,680	96,691
November	88,582	100,295	
December	90,299	93,879	
January	89,569	92,197	
February	86,889	89,948	
March	89,350	96,527	
April	88,013	96,264	
May	87,281	92,452	
June	89,733	89,025	
July	91,052	81,799	
August	92,686	85,158	
September	91,173	88,941	
Total	1,072,225	1,097,163	96,691

Marina closed towards end of march due to COVID 19



Cumulative	2018/19	2019/20	2020/21
October	87,598	90,680	96,691
November	176,181	190,975	
December	266,479	284,854	
January	356,049	377,051	
February	442,938	466,999	
March	532,287	563,525	
April	620,301	659,789	
May	707,582	752,241	
June	797,315	841,266	
July	888,367	923,065	
August	981,052	1,008,222	
September	1,072,225	1,097,163	
Budget Goal	**1,042,263**	**1,059,831**	**1,011,953**



Governmental Funds Capital Projects

Capital Project Life Cycle

31-Oct-20

Capital Projects Fund	Original Budget	Budget Amendments	Total Amended Budget Funding	Total Expenses & Open P.O.'s	(Return) of Funding on Completed Projects	Remaining Funds Available	Project Status
Beach Revitalization Phase II	$ 925,000	$ 801,799	$ 1,726,799	$ (849,266)	$ -	$ 877,533	In progress
City Entrance Sign	250,000	113,380	363,380	(359,801)		3,579	In progress
Bus Shelter Program	100,000	-	100,000	(80,739)		19,262	In progress
Oasis XV - SW 25th Terrace	200,000	1,304	201,304	(201,304)		(0)	In progress
OASIS Housing Project	500,000	(500,000)	-	-		-	Transferred to CRA Fund
Oasis XIV Project	200,000	(500,000)	55,960	-		55,960	In progress
Total Capital Projects (301)			**$ 2,447,443**	**$ (1,491,109)**	**$ -**	**$ 956,334**	

Enterprise Funds Capital Projects
Capital Project Life Cycle
10/31/2020

Stormwater Fund	Original Budget	Budget Amendments	Total Budget Funding	Return of Funding on Completed Projects	Remaining Funding Available	Project Status
SE Stormwater Phase II	$ 6,159,729	$ 124,145	$ 6,283,874	$ -	$ 6,135,757	In-Progress
Taylor Lane Drainage Project	615,000	(81,936)	615,000		25,834	Project Completed
SW 43rd Terrace, SW 40th Court and SW 49th Street Project	1,170,960	-	1,170,960		991,120	In-Progress
Total Stormwater Fund Projects			**8,069,834**	**-**	**7,152,711**	
Water Fund						
NW 1st Ave Water Main Stirling-City Hall	431,730	-	431,730		375,766	In-Progress
Lime Slaker Refurbishment	80,000		80,000		-	In-Progress
Total Water Fund Projects			**511,730**	**-**	**375,766**	
Sewer Fund						
Lift Rehab Projects 5,7,10	1,137,594	-	1,137,594		11,804	In-Progress
SCADA System	257,715	-	257,715		(0)	In-Progress
Total Sewer Fund Projects			**1,395,309**	**-**	**11,804**	
Total Enterprise Projects			**$ 9,976,873**	**$ -**	**$ 7,540,281**	

Grant Fund
10/31/2020

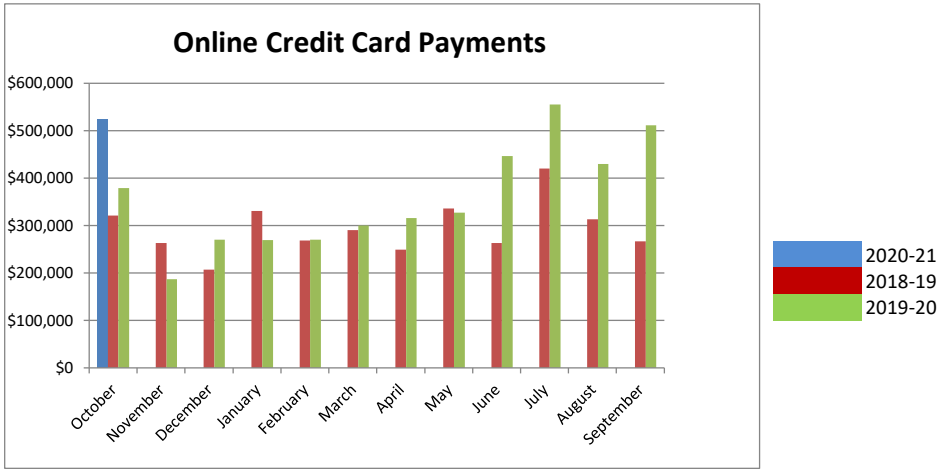
Grant	Grant Amount	City Match/Funds	Revenue Received	Remaining Revenue	Total Expenses & Open P.O.'s	Remaining Expense	Project Status	Grant Expiration
TAP Grant	**$ 344,379**	**$ 327,088**	**$ 203,441**	**$ 140,938**	$ (792,676)	$ 8,527	Waiting on reimbursements	12/31/2020
		Total Remaining Revenue		**$ 140,938**				

USDA Grant CRA

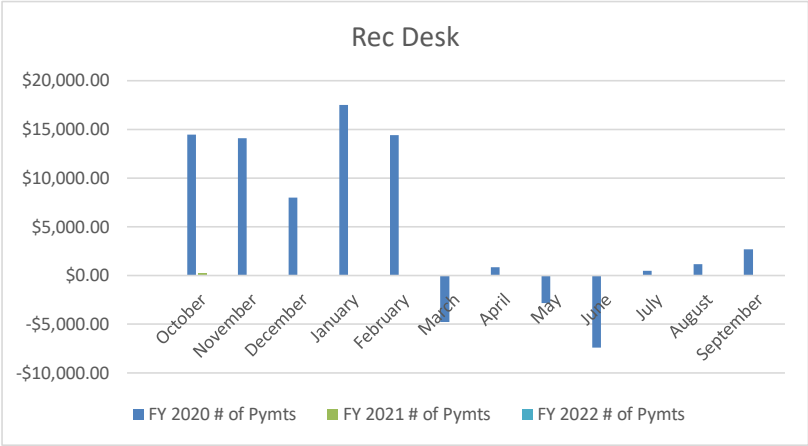
Grant Life Cycle
31-Oct-20

PATCH Fund	Original Budget	Budget Amendments	Total Amended Budget Funding	Total Expenses & Open P.O.'s	(Return) of Funding on Completed Projects	Remaining Funds Available	Revenue Received	Grant Status
USDA CRA Grant	$ 248,872	$ 52,487	$ 301,359	$ (237,129)		$ 64,230	$ 175,396	In progress
Total CRA Grant			**$ 301,359**	**$ (237,129)**	**$ -**	**$ 64,230**		

	FY 2021		FY 2019		FY 2020	
	# of Pymts	$ Value	# of Pymts	$ Value	# of Pymts	$ Value
October	1,694	$522,541	1,571	$321,462	1,695	$378,828
November			1,427	$262,899	1293	$186,710
December			1,311	$207,256	1453	$270,094
January			1,550	$330,919	1378	$269,347
February			1,424	$268,905	1403	$270,127
March			1,506	$290,206	1481	$300,421
April			1,317	$249,172	1742	$316,140
May			1,525	$336,388	1505	$327,643
June			1,346	$263,574	1766	$446,782
July			1,788	$419,858	2054	$555,309
August			1,627	$312,880	1899	$430,281
September			1,410	$267,102	2113	$511,620

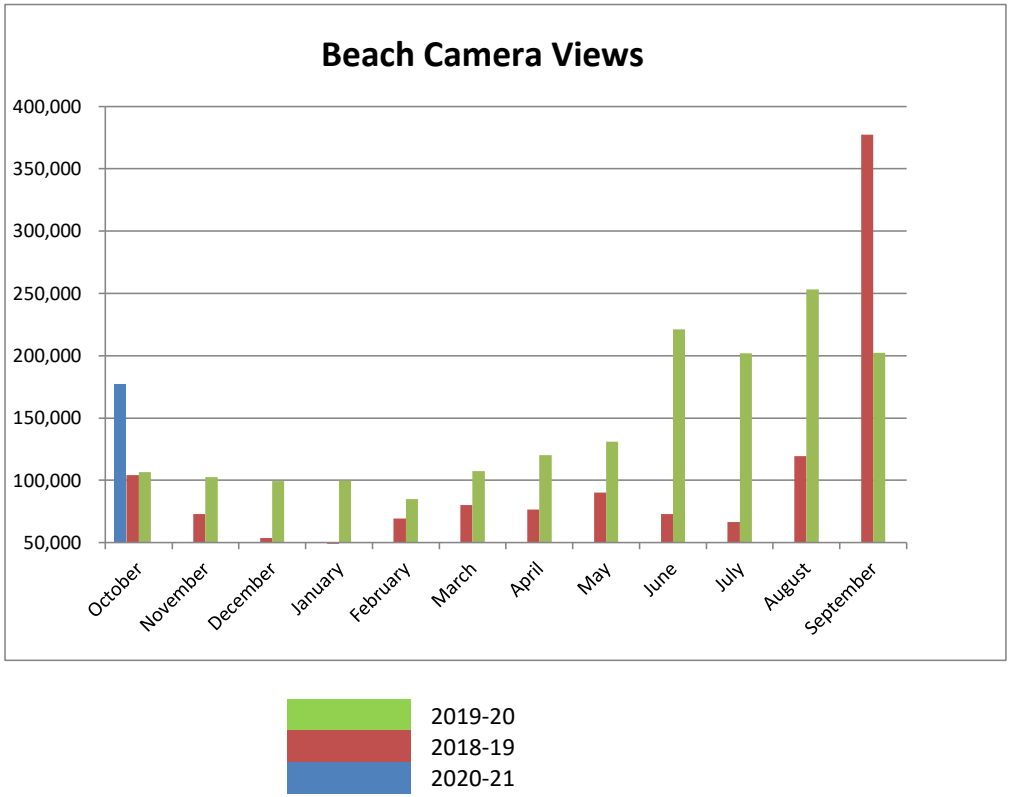


	FY 2020		FY 2021		FY 2022	
	# of Pymts	$ Value	# of Pymts	$ Value	# of Pymts	$ Value
October	158	$14,447	197	$6,283		
Novembe	94	$14,092				
Decembe	98	$8,024				
January	150	$17,493				
February	130	$14,408				
March	143	-$4,766				
April	23	$844				
May	4	-$2,843				
June	75	-$7,413				
July	30	$506				
August	29	$1,144				
Septembe	95	$2,675				



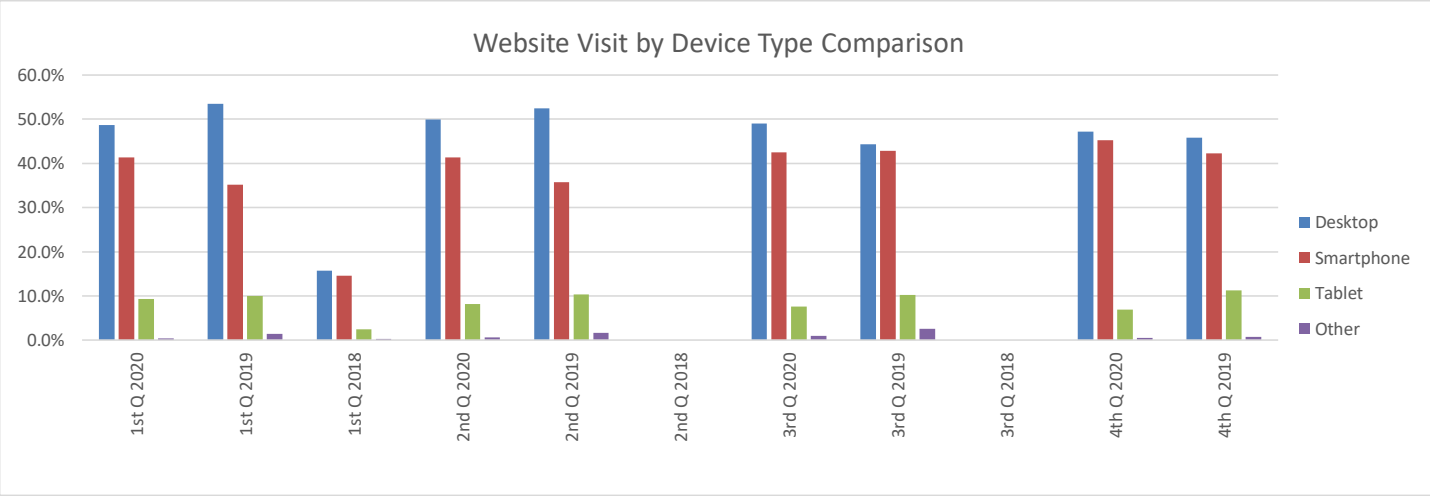
2019-20

	FY 2021	FY2019	FY 2020
October	177,400	104,200	106,500
November		73,000	102,700
December		53,667	99,400
January		49,000	99,700
February		69,100	84,900
March		80,013	107,500
April		76,400	119,982
May		90,000	130,800
June		72,900	221,100
July		66,300	202,000
August		119,400	253,200
September		377,340	202,400



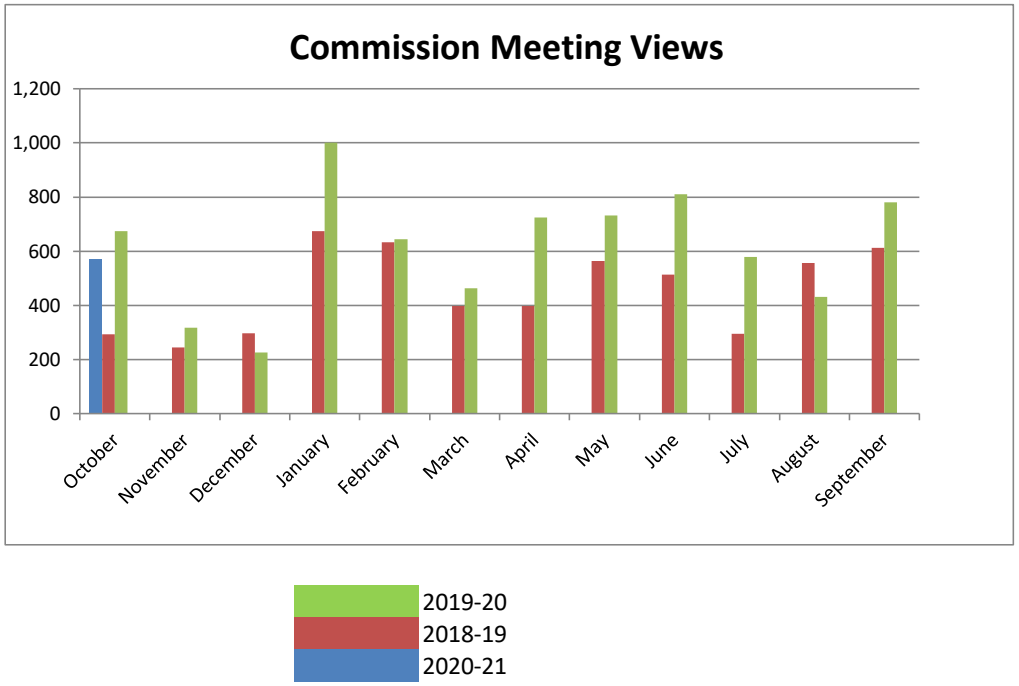
Website Visit by Device Type Comparison

	1st Q 2020	1st Q 2019	1st Q 2018	2nd Q 2020	2nd Q 2019	2nd Q 2018	3rd Q 2020	3rd Q 2019	3rd Q 2018	4th Q 2020	4th Q 2019	4th Q 2018
Desktop	48.6%	53.4%	15.7%	49.9%	52.4%		49.0%	44.3%		47.2%	45.9%	
Smartphone	41.3%	35.1%	14.6%	41.4%	35.7%		42.5%	42.9%		45.2%	42.3%	
Tablet	9.3%	10.0%	2.4%	8.1%	10.3%		7.6%	10.2%		6.9%	11.2%	
Other	0.4%	1.4%	0.3%	0.6%	1.6%		0.9%	2.5%		0.5%	0.7%	

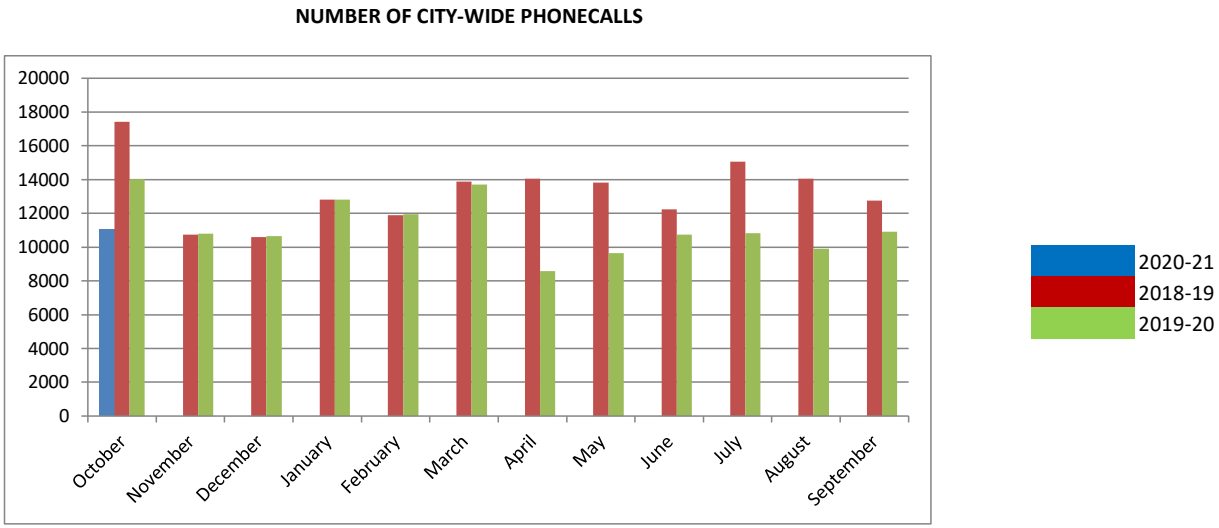


TikiLIVE & YouTube Channel

	FY 2021	FY 2019	FY20
October	570	293	674
November		244	318
December		296	225
January		673	1,000
February		632	644
March		398	463
April		397	725
May		564	731
June		513	811
July		294	578
August		556	431
September		613	781

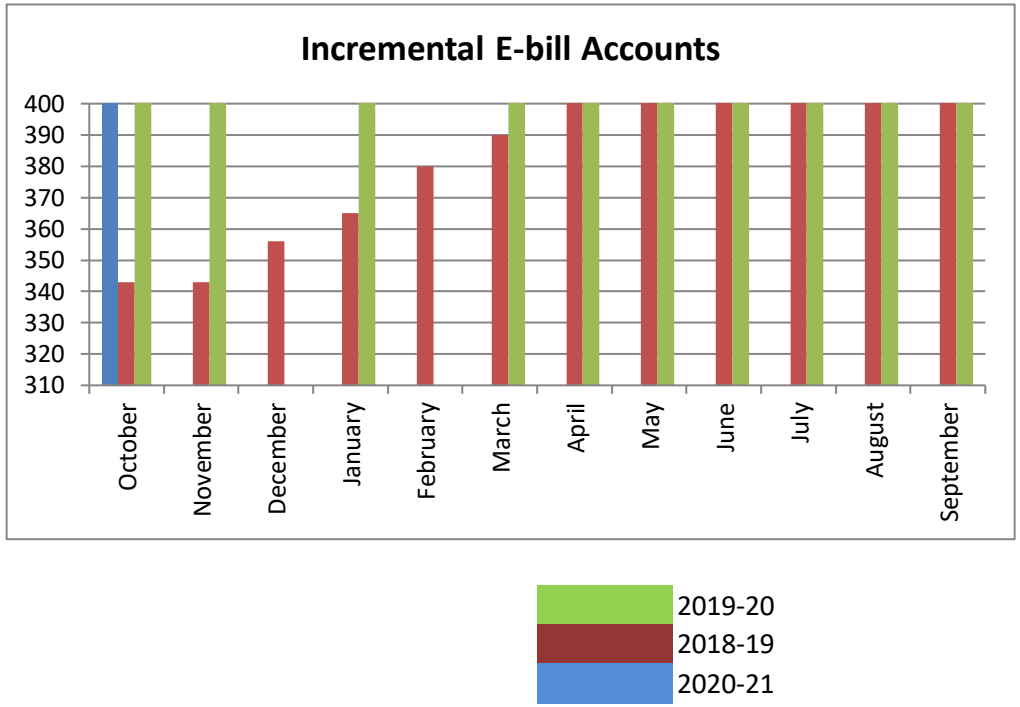


	FY 2021	FY 2019	FY 2020
October	11,070	17,408	14,022
November		10,726	10,812
December		10,601	10,652
January		12,818	12,810
February		11,883	11,945
March		13,870	13,698
April		14,061	8,583
May		13,832	9,648
June		12,246	10,734
July		15,070	10,836
August		14,064	9,898
September		12,742	10,909



Number of e-bill users by month

	FY 2021	FY 2019	FY20
October	607	343	487
November		343	495
December		356	
January		365	506
February		380	
March		390	549
April		420	555
May		430	561
June		436	570
July		449	577
August		464	584
September		473	595



Business Tax Receipt Activity - October 2020

Out of Business/Inactive	# of BTRs	Dollar Amount	
A R Elliott Inc	1	$	425.00
Arbor Research & Trading LLC	1	$	379.05
Dolan Mental Health - S. Florida Clinical Treatment	1	$	451.25
Fidelity Security Life Insurance Company	1	$	183.75
Home Staging Concepts of Florida - Bright Futures Realty	1	$	477.50
Magna Marine Services	1	$	593.75
McElyea, Charles K Rev Trust	1	$	31.50
McElyea, Charles	1	$	31.50
Oh My Nailz - Paola Gonzalez	1	$	520.00
Oscar & Anne Castro	1	$	31.50
Richard A Hamann Jr Demolition	1		N/A
Tatiana Gordienko	1	$	236.25
The Banyan House LLC	1	$	451.25
The Lincoln National Life Ins	1	$	183.75
Weiner's Mobile Home Park LLC	1	$	1,543.25
Total Out of Business/Inactive	**15**	**$**	**5,539.30**

New Approved Applications	# of BTRs	Dollar Amount	
Accendo Insurance Co	1	$	183.75
Adventure Off Road 4x4	1	$	625.00
American Commerce Insurance Company	1	$	183.75
American Contractors Indemnity Company	1	$	183.75
Antiotrading Corporation	1	$	546.25
Blow Salon	1	$	520.00
Boris Gordienko	1	$	31.50
Chubb National Insurance Company	1	$	183.75
DJ Martin LLC	1	$	210.00
Dunkin Donuts	1	$	372.50
Endurance Assurance Corporation	1	$	183.75
Fern Ridge Nursery LLC	1	$	210.00
FIWI Shipping International LLC	1	$	572.50
Guacamole Station LLC	1	$	572.50
Housing Enterprise Insurance Company Inc	1	$	183.75
Idelli Miami	1	$	677.50
Lifesecure Insurance Co	1	$	183.75
Lincoln Life Assurance Company of Boston	1	$	183.75
Luggage & Flip Flop Zone	1	$	625.00
Luxe Home Staging and Design Inc	1	$	677.50
Mapfre Insurance Company of Florida	1	$	183.75
Nails by Indira	1	$	572.50
Old Republic Insurance Company	1	$	183.75
Peak Property and Casualty Insurance Corp	1	$	183.75
Sell High Pay Less Realty LLC	1	$	52.50
Sentry Select Insurance Company	1	$	183.75
Sugarboo & Co	1	$	1,565.00
Tatiana Gordienko	1	$	31.50
The Banyan House LLC	2	$	1,145.00
The Guarantee Company of North America USA	1	$	183.75
Weiner's Mobile Home Park	1	$	1,843.25
Westfield Insurance Company	1	$	183.75
Total New Applications	**33**	**$**	**13,422.50**

BTR Status	# of BTRs	Total Dollar Amount		
Open Renewals- Current Year	**527**	**$**	**144,569.01**	
Paid Renewals	**3,005**	**$**	**992,536.55**	
Total BTRs as of 10/31/2020	**3,532**		**1,137,105.56**	**

**includes license fee, fire inpsection & solid waste registration

Miscellaneous Billing Invoice Aging Report

Aging Date 10/31/2020

Report By Invoice Type

	Description	Current	1-30	31-60	61-90	90+	Total
Invoice Type - CEM - Cemetery							
# 4652 - Eric L Wilson	Reservation of Burial Plot	.00	.00	.00	.00	7570.00	7,570.00
# 5474 - Cokenya D West	Reservation of Burial Plot	.00	.00	.00	.00	250.00	250.00
# 4179 - AJ Manuel Funeral Home	Reservation of Burial Plot	.00	7770.00	.00	.00	1500.00	9,270.00
# 5736 - Sands, Carolyn	Reservation of Burial Plot	.00	.00	.00	.00	3000.00	3,000.00
# 5756 - Rahming Poitier Funeral Home	Reservation of Burial Plot	.00	.00	.00	.00	4750.00	4,750.00
# 5755 - McPherson, Eddie Dean	Reservation of Burial Plot	.00	.00	.00	.00	400.00	400.00
# 5757 - Fuller Funeral Home	Reservation of Burial Plot	.00	.00	.00	.00	990.00	990.00
# 5673 - Agape Funeral and Cremation	Reservation of Burial Plot	.00	.00	.00	.00	6720.00	6,720.00
# 5477 - Paradise Funeral Home, LLC	Reservation of Burial Plot	.00	.00	.00	.00	1680.00	1,680.00
# 3946 - Eric S George Funeral Home	Reservation of Burial Plot	.00	.00	2310.00	.00	.00	2,310.00
# 4182 - Fred Hunters Hollywood	Reservation of Burial Plot	.00	.00	450.00	.00	.00	450.00
# 4786 - Dillard Josephine	Reservaton of Burial Plot	.00	.00	.00	.00	200.00	200.00
Cemetery Totals		**$0.00**	**$7,770.00**	**$2,760.00**	**$0.00**	**$27,060.00**	**$37,590.00**
Invoice Type - ART & SEAFOOD - Arts & Seafood Festival							
# 5472 - Meyers Group LLC	Arts and Seafood Sponsorship	.00	.00	.00	.00	5000.00	$ 5,000.00
# 4900 - Storm Tight Windows	Arts and Seafood Sponsorship	.00	.00	.00	.00	2,500.00	2,500.00
Arts & Seafood Totals		**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$7,500.00**	**$7,500.00**
Invoice Type -CRA - Misc CRA							
# 4918 - Arnold & Sharon Nearn	Millennium Facase Grant	.00	.00	.00	.00	6000.00	6,000.00
Misc CRA Totals		**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$6,000.00**	**$6,000.00**
Invoice Type FA- False Alarm							
Miscellaneous FA Customers	BSO & Fire False Alarms	.00	.00	.00	.00	2,000.00	2,000.00
False Alarm Totals		**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$2,000.00**	**$2,000.00**
Invoice Type FI - Fire Inspection							
3065 - Keynorth Townhomes	Annual Inspection FY 11	.00	.00	.00	.00	1,700.00	1,700.00
3072 - Atlantis Management	Annual Inspection FY 11 & FY 12	.00	.00	.00	.00	7,800.00	7,800.00
1012 - Gulfstream Apts.	Annual Inspection FY 11 & FY 12	.00	.00	.00	.00	2,800.00	2,800.00
# 4466 - Meadowbrook Condo	Annual Inspection FY 13	.00	.00	.00	.00	1,000.00	1,000.00
4644 - Oakbridge Townhomes	Annual Inspection FY 14	.00	.00	.00	.00	4,000.00	4,000.00
Miscellaneous FI Customers	Annual & Re-Inspections	.00	.00	.00	22,230.00	194,985.00	217,215.00
Fire Inspection Totals		**$0.00**	**$0.00**	**$0.00**	**$22,230.00**	**$212,285.00**	**$234,515.00**
Invoice Type GR COUNTY - Grant Reimb. Broward County							
# 4049 - Broward County - CDBG Grant	CDBG Grant	$0.00	$0.00	$163,730.00	$0.00	$0.00	$163,730.00
GR County Totals		**$0.00**	**$0.00**	**$163,730.00**	**$0.00**	**$0.00**	**$163,730.00**
Invoice Type GR Federal - Grant Reimb. Federal Government							
# 5848 - USDA - Grant	USDA Grant	$0.00	$0.00	$10,541.64	$0.00	$0.00	$10,541.64
GR Federal Totals		**$0.00**	**$0.00**	**$10,541.64**	**$0.00**	**$0.00**	**$10,541.64**
Invoice Type GR State - Grant Reimb. State of Florida							
# 4438 - Florida Department of	State of Florida	$0.00	$0.00	$105,167.53	$0.00	$0.00	$105,167.53
GR State Totals		**$0.00**	**$0.00**	**$105,167.53**	**$0.00**	**$0.00**	**$105,167.53**
Invoice Type LM - Lake Maintenance							
Miscellaneous LM Customers	Lake Maintenance	.00	.00	.00	.00	275.36	275.36
Lake Maintenance Totals		**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$275.36**	**$275.36**
Invoice Type MS - Miscellaneous							
# 4647 - Palmetto Hospitality of Dania	Water Impact Fees	.00	.00	.00	.00	20,242.00	20,242.00
Misc. Customers	**Misc. Customers**	263,100.00	(1,160.00)	.00	780.00	27,755.15	290,475.15
Miscellaneous Totals		**$263,100.00**	**($1,160.00)**	**$0.00**	**$780.00**	**$47,997.15**	**$310,717.15**
Grand Totals		**$263,100.00**	**$6,610.00**	**$282,199.17**	**$23,010.00**	**$303,117.51**	**$878,036.68**

City of Dania Beach

Commercial Solid Waste Report FY 2020-2021

Payments Received

Annual Budget $ 622,848

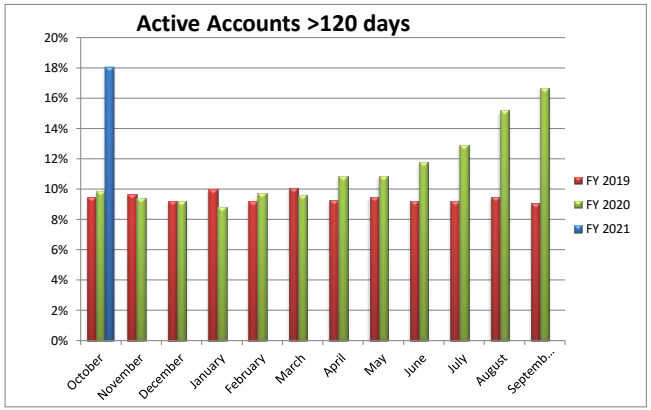
Waste Hauler

	Choice Waste AKA Waste Connections	Waste Management	All Service Refuse AKA Repucblic Services	S & S National Waste AKA Bicon, Inc.	Sunshine Recycling Services	Panzarella Waste & Recycling Services	Great Waste	EZ Waste & Recycling	COASTAL WASTE & RECYCLING INC	
Permit Application Fee	75.00			225.00						
Annual Permit Fee	1,000.00			1,000.00						Monthly Activity
Monthly Franchise										
Oct	2,602.34	35,852.88	12,622.11	2,152.53		429.86	3,240.32		601.33	57,501.37
Nov										-
Dec										-
Jan										-
Feb										-
Mar										-
Apr										-
May										-
Jun										-
Jul										-
Aug										-
Sep										-
Total Mo. Franchise	2,602.34	35,852.88	12,622.11	2,152.53	-	429.86	3,240.32	-	601.33	57,501.37
Total Receipts	$ 3,677.34	$ 35,852.88	$ 12,622.11	$ 3,377.53	$ -	$ 429.86	$ 3,240.32	$ -	$ 601.33	**$ 59,801.37**

WATER & SEWER UTILITY AGING REPORT

ACTIVE ACCOUNTS

	FY 2019			FY 2020			FY 2021		
	>120 Past Due	Monthly Billings	% DELQ	>120 Past Due	Monthly Billings	% DELQ	>120 Past Due	Monthly Billings	% DELQ
October	95,365	1,010,211	9%	101,263	$ 1,028,181	10%	183,822	$ 1,019,908	18%
November	98,732	1,023,885	10%	102,632	1,094,606	9%			
December	99,290	1,080,590	9%	100,463	1,093,753	9%			
January	101,512	1,016,702	10%	101,513	1,151,809	9%			
February	99,383	1,082,970	9%	105,524	1,086,072	10%			
March	101,087	1,003,628	10%	104,516	1,090,084	10%			
April	105,959	1,140,270	9%	107,366	991,898	11%			
May	107,545	1,135,444	9%	113,868	1,048,083	11%			
June	105,858	1,149,476	9%	127,306	1,078,705	12%			
July	102,130	1,106,583	9%	143,126	1,110,772	13%			
August	102,832	1,086,057	9%	157,934	1,041,324	15%			
September	101,787	1,122,546	9%	167,246	1,005,176	16.64%			
Annual Avg	$ 101,790	$ 1,079,864	9%	$ 119,396	$ 1,068,372	11%	$ 183,822	$ 1,019,908	18%

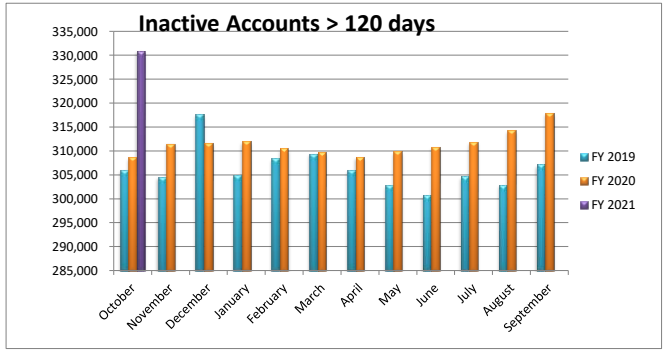


FY 2020	FY 2021
0%	8%
0%	-9%
0%	-9%
-1%	-9%
1%	-10%
0%	-10%
2%	-11%
1%	-11%
3%	-12%
4%	-13%
6%	-15%
8%	-17%
2%	-10%

Active Account Graph: Billing data indicates deliquency rate on active accounts remain constant at an average of 1% of billings per month

INACTIVE ACCOUNTS

	FY 2019	FY 2020		FY 2021	
	>120 Past Due	>120 Past Due	% +/-	>120 Past Due	% +/-
October	305,930	308,582	1%	330,831	7%
November	304,415	311,477	2%		
December	317,608	311,598	-2%		
January	304,953	311,938	2%		
February	308,340	310,421	1%		
March	309,318	309,600	0%		
April	305,857	308,699	1%		
May	302,754	309,813	2%		
June	300,799	310,711	3%		
July	304,591	311,770	2%		
August	302,839	314,242	4%		
September	307,081	317,910	3%		
Annual Avg	$ 306,207	$ 311,397	2%	$ 330,831	100%



City of Dania Beach
General Fund
Unassigned Fund Balance - - Contingency

	----- General Fund -------		
	Contingency	**Unassigned Fund Balance**	
Balance 10/1/20 Estimated	$ 233,398	$ 21,782,373	
(Uses) / Additions:			
October	(4,372)	(382,593)	Roll over P.O's
November	-	-	
December	-	-	
January	-	-	
February	-	-	
March	-	-	
April	-	-	
May	-	-	
June	-	-	
July	-	-	
August	-	-	
September	-	-	
Sub-Total (Uses) / Additions	(4,372)	(382,593)	
Sub-Total Available	229,026	21,399,780	
Other Considerations			
GFOA/City Commission 25% Reserve		(12,500,000)	est.
Bridge Loans - S.E. Stormwater		(1,000,000)	
Estimate of Availability at 09/30/20	**$ 229,026**	**$ 7,899,780**	

City of Dania Beach

#001-18-00-519-99-10

Contingency Account

Original Budget	$	233,398	
Uses:			
		Total	
Oct		**(4,372)**	Holiday lighting
Nov			
December			
January			
February			
March			
April			
May			
June			
July			
August			
September			
Balance Remaining	**$**	**229,026**	

City of Dania Beach

General Fund

Analysis of

Fund Balance

	Balance Per CAFR 10/1/20 (est)	**21,782,373**	
Uses:	**#389-90-01**		
	October	(382,593)	Rollover PO's
	November		
	December		
	January		
	February		
	March		
	April		
	May		
	June		
	July		
	August		
	September		
	Total Uses (Sources)	(382,593)	
Estimated Balance Available 09/30/21		$ 21,399,780	
Other Considerations			
	GFOA/City Commission 25% Reserve	(12,500,000)	est.
	Bridge Loans - S.E. Stormwater	(1,000,000)	
Estimate of Availability at 09/30/20		**7,899,780**	