

# Memorandum



**Date:** February 21, 2023

**To:** Honorable Chairman Oliver G. Gilbert, III  
and Members, Board of County Commissioners

**From:** Lourdes M. Gomez, Director   
Department of Regulatory and Economic Resources

Agenda Item No. 5(C)

**Subject:** Class I Permit Application by Florida Power and Light Company

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## **Recommendation**

I have reviewed the attached application for a Class I permit by Florida Power and Light Company and based upon the applicable evaluation factors set forth in Section 24-48.3 and Section 24-48.25 of the Code of Miami-Dade County (Code), I recommend that the Board of County Commissioners (Board) approve the issuance of a Class I permit for the reasons set forth below.

Pursuant to Ordinance No. 16-73, this quasi-judicial matter may be submitted directly for placement on the Board's meeting agenda by the Director of the Department of Regulatory and Economic Resources.

## **Scope**

The project site is located in Biscayne Bay north of the MacArthur Causeway, Miami Beach, Miami-Dade County, Florida, in Commission District 5, which is represented by Commissioner Eileen Higgins.

## **Delegation of Authority**

This item has no delegation of authority. Upon approval of this item, Section 24-48.2(C)(2) of the Code authorizes the Department to issue the permit, provided that other Code requirements are satisfied, such as submittal of final plans and bonds, and to require additional conditions, limitations, and restrictions if consistent with this Board's approval.

## **Fiscal Impact/Funding Source**

This resolution is a regulatory approval and does not have a fiscal impact.

## **Track Record/Monitor**

The Coastal Resources Section Manager, McKee Gray, in the Department of Regulatory and Economic Resources, Division of Environmental Resources Management (DERM), will be responsible for monitoring the proposed permit.

## **Background**

The subject Class I permit application requests authorization for the temporary staging of transmission lines in tidal waters in association with the horizontal directional drilling of a Florida Power and Light Company (FPL) underground transmission line between the Miami Beach substation on Terminal Island and the Alton Road substation in Miami Beach. The proposed staging of the transmission lines in tidal waters is considered a non-water dependent floating structure and the installation of non-water dependent floating structures are prohibited pursuant to Section 24-48.23 of the Code. However, Section 24-48.25 of the Code provides for an applicant to request a variance from the Code to be reviewed and decided by the Board after a public hearing. Therefore, the Applicant is requesting a variance from the prohibition in Section 24-48.23 of the Code.

MDC001

The Applicant is proposing to install new transmission lines from the Miami Beach substation to the Alton Road substation via horizontal direction drilling beneath the substrate of Biscayne Bay. Although the installation of upland transmission lines via horizontal direction drilling would not typically require Class I authorization, due to limited space between the edge of pavement and the predominately riprap shoreline, the conduits cannot be assembled and staged on the uplands without adverse impacts to traffic along the MacArthur Causeway. Therefore, in order to assemble the conduits prior to the upland directional drilling, the Applicant is requesting authorization to temporarily stage the transmission lines in tidal waters along the north side of the MacArthur Causeway. Once assembled, the conduits would extend approximately 3,300 feet along the north side of the MacArthur Causeway and would be tethered to anchors installed at intervals along the uplands. The conduits would remain in tidal waters for approximately two to three months. Note that the temporary in-water staging work is not proposed within or adjacent to navigational channels and each tether location would have a marine light attached that would be illuminated at night to alert vessels to the presence of the structures.

Pursuant to Section 24-48.4 of the Code, potential adverse environmental impacts and cumulative adverse environmental impacts for a proposed project must be avoided and minimized and mitigation is required for permissible projects that otherwise result in adverse environmental impacts. In order to avoid impacts to existing benthic resources, including seagrasses, the floating conduits would be tethered to anchors located on the uplands and no structures other than the floating conduits are proposed to be installed within tidal waters. Furthermore, the project has been designed to maintain sufficient clearance between the floating conduits and any existing benthic resources. Additionally, the tethers and conduits would be inspected on a daily basis to ensure that no marine organisms or debris have become entangled in the lines. Due to the temporary nature of the project, long-term shading impacts to seagrasses are not reasonably anticipated, and pre- and post-event benthic surveys would be conducted to verify whether any unanticipated impacts occur. Therefore, mitigation would not be required for the subject application.

The proposed work is not reasonably expected to result in cumulative environmental impacts to water quality; however, the construction phase of the proposed project may result in temporary water quality impacts. In order to minimize the temporary impacts to water quality as a result of the construction activities associated with the proposed work, the Class I permit would require that turbidity controls be utilized during all phases of construction to ensure compliance with State and County water quality standards.

Although non-water dependent floating structures are prohibited pursuant to Section 24-48.23 of the Code, Section 24-48.25 of the Code provides for the applicant to request a variance from the Code to be ruled upon by the Board. Section 24-48.25 lists consideration factors for such variance requests, including but not limited to: visual or physical access by the general public to Biscayne Bay and its adjacent tidal waters, historical significance, and environmental impact. As discussed above, due to the limited duration of the work and the measures taken to reduce potential environmental impacts, including changes to the design to reduce the potential of marine life entanglement, the variance for the use of non-water dependent floating structures is recommended for approval.

The project has been designed in accordance with all relevant Miami-Dade County coastal construction criteria and is consistent with all other Miami-Dade County coastal protection

provisions. Please find attached a DERM Project Report which also sets forth the reasons the proposed project is recommended for approval by DERM pursuant to the applicable evaluation factors and criteria as set forth in Section 24-48.3 of the Code. The conditions, limitations, and restrictions set forth in the Project Report attached hereto are incorporated herein by references hereto.

**Attachments**

- Attachment A: Class I Permit Application
- Attachment B: Owner/Agent Letter, Engineer Letter and Project Sketches
- Attachment C: Zoning Memorandum
- Attachment D: DERM Project Report
- Attachment E: Florida Department of Environmental Protection (FDEP) Permit

**Attachment A**  
**Class I Permit Application**



# Class I Permit Application

## FOR DEPARTMENTAL USE ONLY

<b>Date Received:</b>	<b>Application Number:</b>
	<b>Application Fee:</b>
(Updated 09/09)	

Application must be filled out in its entirety. Please indicate N/A for non-applicable fields.

<b>1. Applicant Information:</b> Name: <u>Florida Power &amp; Light Company c/o Franck Leblanc</u> Address: <u>15430 Endeavor Dr. (DO1/JW)</u> <u>Jupiter, FL</u> Zip Code: <u>33478</u> Phone #: <u>561-904-3415</u> Fax#: _____ Email: <u>Franck.L.Leblanc@fpl.com</u> <small>* This should be the applicant's information for contact purposes.</small>	<b>2. Applicant's Authorized Permit Agent:</b> <small>Agent is allowed to process the application, furnish supplemental information relating to the application and bind the applicant to all requirements of the application.</small> Name: <u>Michael Harrington, Golder Associates Inc.</u> Address: <u>9428 Baymeadows Rd., Suite 400</u> <u>Jacksonville, FL</u> Zip Code: <u>32256</u> Phone #: <u>352-278-6116</u> Fax #: _____ Email: <u>mharrington@golder.com</u>
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**3. Location where proposed activity exists or will occur (latitude and longitude are only necessary for properties without address or folio #):**

Folio #(s): \_\_\_\_\_ Latitude: 25° 46' 25.33" Longitude: 80° 08' 44.26"  
Street Address: MacArthur Causeway Section: 15 Township: 54S Range: 42E  
In City or Town: Miami Beach Near City or Town: \_\_\_\_\_  
Name of waterway at location of the activity: Biscayne Bay

**4. Describe the proposed activity (check all that apply):**

<input type="checkbox"/> Seawall	<input type="checkbox"/> Dock(s)	<input type="checkbox"/> Boatlift	<input type="checkbox"/> Dredging	<input type="checkbox"/> Mangrove Trimming
<input type="checkbox"/> New/Replacement Seawall	<input type="checkbox"/> Pier(s)	<input type="checkbox"/> Mooring Piles	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Mangrove Removal
<input type="checkbox"/> Seawall Cap	<input type="checkbox"/> Viewing Platform	<input type="checkbox"/> Fender Piles	<input type="checkbox"/> New	
<input type="checkbox"/> Batter Piles	<input type="checkbox"/> Davits	<input type="checkbox"/> Filling		
<input type="checkbox"/> King Piles				
<input type="checkbox"/> Footer/Toe Wall				
<input type="checkbox"/> Riprap				

Other: Installation of a new underground transmission line using HDD.

Estimated project cost = \$ 12,500

Are you seeking an after-the-fact approval (ATF)?  Yes  No If "Yes", describe the ATF work: \_\_\_\_\_

<b>5. Proposed Use (check all that apply):</b> <input type="checkbox"/> Single Family <input type="checkbox"/> Multi-Family <input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Utility	<b>6. If the proposed work relates to the mooring of vessels provide the following information (please also indicate if the applicant does not have a vessel):</b> Proposed Vessel Type (s): _____ Vessel Make/Model (If known): _____ Draft (s)(range in inches.): _____ Length (s)(range in feet.): _____ Total Number of Slips: _____
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**7. List all permits or certifications that have been applied for or obtained for the above referenced work:**

Issuing Agency	Type of Approval	Identification Number	Application Date	Approval Date
FDEP	ERP	13-0361131-001-EI	10-9-2020	

**8. Contractor Information (If known):**

Name: Larry Hereford, Laney Directional Drilling License # (County/State): \_\_\_\_\_  
 Address: 1100 Alegacy Place, Waller, TX Zip Code: 77484  
 Phone #: 713-816-8017 Fax #: \_\_\_\_\_ E-mail: lhereford@laneygroupinc.com

**9. IMPORTANT NOTICE TO APPLICANTS:** The written consent of the property owner is required for all applications to be considered complete. Your application WILL NOT BE PROCESSED unless the Applicant and Owner Consent portion of the application is completed below. You have the obligation to apprise the Department of any changes to information provided in this application.

Application is hereby made for a Miami-Dade County Class I permit to authorize the activities described herein. I agree to or affirm the following:

- I possess the authority to authorize the proposed activities at the subject property, and
- I am familiar with the information, data and plans contained in this application, and
- To the best of my knowledge and belief, the information, data and plans submitted are true, complete and accurate, and
- I will provide any additional information, evidence or data necessary to provide reasonable assurance that the proposed project will comply with the applicable State and County water quality standards both during construction and after the project is completed, and
- I am authorizing the permit agent listed in Section 2 of this application to process the application, furnish supplemental information relating to this application and bind the applicant to all requirements of this application, and
- I agree to provide access and allow entry to the project site to inspectors and authorized representatives of Miami-Dade County for the purpose of making the preliminary analyses of the site and to monitor permitted activities and adherence to all permit conditions.

**A. IF APPLICANT IS AN INDIVIDUAL**

\_\_\_\_\_  
 Signature of Applicant    Print Applicant's Name    Date

**B. IF APPLICANT IS OTHER THAN AN INDIVIDUAL OR NATURAL PERSON**

(Examples: Corporation, Partnership, Trust, LLC, LLP, etc.)

Florida Power & Light Company    Company    Florida  
 Print Name of Applicant (Enter the complete name as registered)    Type (Corp, LLC, LLP, etc.)    State of Registration/Incorporation

Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Applicant, to bind the Applicant, and if so required to authorize the issuance of a bond on behalf of the Applicant. (If asked, you must provide proof of such authority to the Department). **\*\*\*Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages.\*\*\***

Franck Leblanc    Franck Leblanc    Director, Environmental Services    10/14/2020  
Digitally signed by Franck Leblanc  
 DN: cn=Franck Leblanc, o=Florida Power & Light, ou=Environmental Services,  
 email=franck.leblanc@florida.com, c=US  
 Date: 2020.10.14 09:38:07  
 Signature of Authorized Representative    Print Authorized Representative's Name    Title    Date

**C. IF APPLICANT IS A JOINT VENTURE** Each party must sign below(If more than two members, list on attached page)

\_\_\_\_\_  
 Print Name of Applicant (Enter the complete name as registered)    Type (Corp, LLC, LLP, etc.)    State of Registration/Incorporation

\_\_\_\_\_  
 Print Name of Applicant (Enter the complete name as registered)    Type (Corp, LLC, LLP, etc.)    State of Registration/Incorporation

Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Applicant, to bind the Applicant, and if so required to authorize the issuance of a bond on behalf of the Applicant. (If asked, you must provide proof of such authority to the Department). **\*\*\*Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages.\*\*\***

\_\_\_\_\_  
 Signature of Authorized Representative    Print Authorized Representative's Name    Title    Date

\_\_\_\_\_  
 Signature of Authorized Representative    Print Authorized Representative's Name    Title    Date

**10. WRITTEN CONSENT OF THE PROPERTY OWNER OF THE AREA OF THE PROPOSED WORK**

I/We are the fee simple owner(s) of the real property located at \_\_\_\_\_ Miami-Dade County, Florida, otherwise identified in the public records of Miami-Dade County as Folio No. \_\_\_\_\_.

I am aware and familiar with the contents of this application for a Miami-Dade County Class I Permit to perform the work on or adjacent to the subject property, as described in Section 4 of this application. I possess the riparian rights to the area of the proposed work (if applicable) and hereby consent to the work identified in this Class I Permit application. (See Attachment E: FDOT Permit)

**A. IF THE OWNER(S) IS AN INDIVIDUAL**

\_\_\_\_\_  
Signature of Owner    Print Owner's Name    Date

\_\_\_\_\_  
Signature of Owner    Print Owner's Name    Date

**B. IF THE OWNER IS OTHER THAN AN INDIVIDUAL OR NATURAL PERSON**

(Examples: Corporation, Partnership, Joint Venture, Trust, LLC, LLP, etc.)

\_\_\_\_\_  
Florida Power & Light Company    Company    Florida  
Print Name of Owner (Enter the complete name as registered)    Type (Corp, LLC, LLP, etc.)    State of Registration/Incorporation  
15430 Endeavor Dr. (DO1/JW), Jupiter, FL 33478  
Address of Owner

**Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Owner, to bind the Owner, and if so required to authorize the issuance of a bond on behalf of the Owner. (If asked, you must provide proof of such authority to the Department). \*\*\*Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages.\*\*\***

Digitally Signed by Franck Leblanc  
DN: cn=Franck Leblanc, o=Florida Power & Light, ou=Environmental Services,  
email=franck.leblanc@florida.com, c=US  
Date: 2020.10.14 10:48:04 -0400    Franck Leblanc    Director, Environmental Services    10/14/2020  
Signature of Authorized Representative    Print Authorized Representative's Name    Title    Date

\_\_\_\_\_  
Signature of Authorized Representative    Print Authorized Representative's Name    Title    Date

**Please Review Above**

Appropriate signature(s) must be included in:

Box 9: either A, B or C

AND

Box 10: either A or B

**UTILITY PERMIT**

**PERMIT NO:** 2019-H-691-00348

**STATE ROAD INFORMATION**

<b>County:</b> Miami-Dade	<b>Section:</b> 87060000	<b>State Road No:</b> SR A1A	<b>Beginning Mile Post:</b> 3.027	<b>Ending Mile Post:</b> 3.027
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**APPLICANT INFORMATION**

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

<u>Utility Agency/Owner (UAO)</u>		<u>Utility Builder (only applicable when the UAO is a City or County)</u>	
Name:	FLORIDA POWER & LIGHT-JUNO	Name:	_____
Contact Person:	FLORIDA POWER & LIGHT-JUNO	Contact Person:	_____
Address:	700 UNIVERSE BOULEVARD (TS4/JW)	Address:	_____
City:	JUNO BEACH	City:	_____
State:	Florida	State:	_____
Zip:	33408	Zip:	_____
Telephone:	5619043692	Telephone:	_____
Email:	rafael.e.vides@fpl.com	Email:	_____

**WORK DESCRIPTION**

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

**Install new 69kV underground transmission line between Miami Beach Substation and Alton Substation located along MacArthur Causeway (SR-A1A) west of Alton Road in Miami-Dade County, Florida.  
Miami Beach-Alton 69kV Underground Transmission Line. FPL IO# T00000017065.**

Utility Work No: \_\_\_\_\_

Additional sheets are attached and are incorporated into this permit Yes  No

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes  No

**TRAFFIC CONTROL (TCP)**

The TCP will comply with the following 600 series index(es) 613

A TCP has been attached and incorporated into this permit application in compliance with UAM Section 2.4.2.

MOT Technician's contact information (may be supplied at the two (2) business day notification to FDOT):

Name: Seyed Hajassadollah Telephone (305) 495-8601 ext. \_\_\_\_\_ Email: Seyed.Hajassadollah@fpl.com

**COMMENCEMENT OF WORK**

The UAO and/or Utility Builder shall commence actual construction in good faith within sixty (60) calendar days after approval of the permit application. If the beginning date is more than sixty (60) calendar days from the date of approval, the UAO and/or Utility Builder must review the permit with the FDOT Approving Engineer listed to make sure no changes have occurred to the transportation facility that would affect the permit's continued approval. The UAO and/or Utility Builder shall make good faith efforts to expedite the work and complete the work within the calendar days indicated.

Anticipated Start Date: 5/1/2020

Calendar days needed to completed: 365

Approved  
2019-H-691-00348  
Elizabeth Jett  
9/28/2022



Florida Department of Transportation  
**UTILITY PERMIT**

**PERMIT NO:** 2019-H-691-00348

**APPLICANT SIGNATURE**

By the below signature(s) the UAO and/or Utility Builder agree(s) to construct, operate, and maintain the work as noted in the above Work Description, shown in plans and incorporated documents, in compliance with the UAM, all instructions noted in the FDOT Special Instructions Box, and special instructions incorporated into this permit. The UAO and/or Utility Builder declares, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans of the work areas. In accordance with UAM Section 2.8, the UAO and/or Utility Builder further declares that a letter of notification was delivered to the owners of other facilities within the work areas and that those listed below are the only facility owners known to be involved or potentially impacted by the proposed work.

Date Notified:	Name of other facility owners (attach additional sheets if necessary).
<u>2/13/2020</u>	<u>AT&amp;T</u>
<u>2/13/2020</u>	<u>Atlantic Broadband</u>
<u>2/13/2020</u>	<u>Comcast Cable</u>
<u>2/13/2020</u>	<u>Crown Castle</u>
<u>2/13/2020</u>	<u>Hotwire</u>

Utility Agency/Owner

Utility Builder (when applicable)

Signature: RAFAEL VIDES (digital signature) Date: 8/16/2019  
Name (printed): RAFAEL VIDES  
Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Name (printed): \_\_\_\_\_  
Title: \_\_\_\_\_

**FDOT PROJECT INFORMATION**

Pursuant to UAM Section 2.1(10), the utility work is within FDOT projects listed below and must have a Utility Work Schedule for each project approved prior to commencement of work within the FDOT project limits:  
**FDOT construction is proposed or underway. Refer to Financial Project Id: 443432-1**  
This work is NOT related to an approved utility work schedule.

**FDOT SPECIAL INSTRUCTIONS**

In accordance with UAM Section 2.7, FDOT incorporates the below and attached special instructions into this permit.  
**SEE SPECIAL INSTRUCTIONS ATTACHED**

Additional FDOT Special Instructions are attached and incorporated into this permit. Yes  No

**PERMIT APPROVAL**

By signature below, FDOT gives permission to the UAO and /or Utility Builder to construct, operate, and maintain the utilities indicated in this Utility Permit in compliance with the UAM, all incorporated documents, and special instructions. Any changes to the approved work must be approved by the FDOT's Approving Engineer and attached and incorporated into this permit in accordance with UAM Section 2.11.

Approving Engineer: Elizabeth Jett (digital signature) Date: 9/28/2022  
Name: Elizabeth Jett  
Title: DISTRICT PERMIT ENGINEER

Notification of Utility Work to be provided to: Telephone (305) 640-7133 ext. \_\_\_\_\_ or Email: Ricardo.Hernandez@dot.state.fl.us

An FDOT Representative is required to be present on the worksite prior to commencement of work. Yes  No   
Rep. Name: Albert Estevez Telephone 9546998873 Email: albert.estevez@dot.state.fl.us

2019-H-691-00348  
Elizabeth Jett  
9/28/2022

Florida Department of Transportation  
**UTILITY PERMIT**

**PERMIT NO:** 2019-H-691-00348

**CERTIFICATION**

I, the undersigned UAO and/or Utility Builder, hereby CERTIFY that the utilities were constructed and inspected in compliance with the UAM all incorporated documents, and special instructions. Pursuant to UAM Section 2.11, all changes have been approved by the FDOT's Approving Engineer and incorporated into this permit along with all other material certifications, test results, bore logs, approved plans changes, as-built plans or other required documentation.

I also CERTIFY that work began on 9/25/2020 and was completed on \_\_\_\_\_ and that the area was left in as good or better condition than when the work began.

Utility Agency/Owner

Utility Builder (when applicable)

Signature: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_ Date \_\_\_\_\_

Name (printed): \_\_\_\_\_

Name (printed): \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

**FINAL INSPECTION OF WORK**

The work was inspected and found to be in non-compliance as noted below:

All issues of non-compliance listed above have been brought into compliance and/or FDOT has no outstanding issues that need to be addressed by the UAO and/or Utility Builder. However, this final inspection does not release the UAO and/or Utility Builder of their continuing responsibilities pursuant to Rule 14-46.001, the UAM, all incorporated documents, and special instructions.

FDOT Inspector: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approved  
2019-H-691-00348  
Elizabeth Jett  
9/28/2022

**PERMIT NO.:** 2019-H-691-00348

**STATE ROAD INFORMATION:**

Miami-Dade SR A1A, Section: 87060000, Begin MP: 3.027, End MP: 3.027, Miami-Dade SR A1A, Section: 87060000, Begin MP: 2.547, End MP: 2.547

**NAME OF OTHER FACILITY OWNERS / DATE NOTIFIED:**

Facility Name: Miami Beach Public Works, Date Notified: 2/13/2020, Facility Name: Miami Dade County Public Works, Date Notified: 2/13/2020, Facility Name: TECO Peoples Gas, Date Notified: 2/13/2020, Facility Name: Verizon Enterprise Solutions, Date Notified: 2/13/2020

**FDOT PROJECT INFORMATION:**

FDOT construction is proposed or underway. Refer to Financial Project Id: 443432-1  
This work is NOT related to an approved Utility Work Schedule.

**THE WORK WAS INSPECTED AND FOUND TO BE IN NON-COMPLIANCE AS NOTED BELOW:**

Approved  
2019-H-691-00348  
Elizabeth Jett  
9/28/2022

## PERMIT NO.: 2019-H-691-00348 Special Instructions (continued)

The complete special instructions could not fit in the space allotted on Page 2 of the Utility Permit so they are displayed below.

**Sheeting and shoring will be left in place after work is completed as it will be used for the proposed work under permit 2021-H-691-00233 (City of Miami Beach / 10-inch DIP force main). Coordination with the city will be required after the permit work is completed to ensure no conflicts or issues occur between FPL's permit work and the City of Miami Beach's permit work. Inspectors Juan Velasquez and Albert Estevez must be involved in this coordination.**

1. \*\*\*\* Permit APPROVAL IN NO WAY CONSTITUTES THAT THE PERMITTED HAS AN APPROVED LANE CLOSURE. Please coordinate a pre-commencement meeting with (MR. ALBERT ESTEVEZ at 305-496-9422 / (954) 699-8873, Email: [Albert.Estevez@dot.state.fl.us](mailto:Albert.Estevez@dot.state.fl.us) & MR. Juan Velasquez at (305) 640-7279 / 786 229-6109, Email: [Juan.Velasquez@dot.state.fl.us](mailto:Juan.Velasquez@dot.state.fl.us)) a minimum of two (2) days prior to beginning of work within the F.D.O.T. Right-of-Way
2. \*\*\*\* Submit a detailed lane closure form, noting work and time phases thru the Lane Closure Information System (LCIS) at <https://LCISv2.com>. The lane closure request shall be approved by the Department after pre-commencement meeting has been held and lane closure impact has been discussed. There shall be no lane closures from Thanksgiving Day to New Year's Day, due to Moratorium. Unless otherwise approved.
3. Final Inspection of Work: Close-out documentation submittal is required to the Department Representative or uploaded in One Stop Permitting website prior to scheduling Final Inspection. Provide FDOT all material certifications, test results, bore logs, As-Builts for any approved field changes, or other documentation required. 2017 UAM 2.11.
4. Materials testing required for restoration work must be performed by an FDOT pre-qualified laboratory and FDOT Qualified Technicians. The Qualified Laboratories list is available to the public from the Materials Acceptance and Certification (MAC) webpage at the FDOT Materials Office website. <https://www.fdot.gov/materials/quality/programs/laboratoryqualification/index.shtm>
5. QC Company/Lab information is to be provided to the Department at the Pre-Commencement meeting.
6. The contractor is required to maintain the Clear Zone free of hazards, such as drop-offs and above ground hazards. Heavy equipment and materials cannot be stored within the clear zone
7. Dewatering activities for the proposed work will require a state dewatering permit from the South Florida Water Management District and a local Class V Dewatering Permit from Miami-Dade County. Please provide the FDOT a copy of the issued state and local dewatering permits prior to beginning construction.
8. Coordinate with the City of Miami Beach for the sidewalk and C&G requirements such as the color of the concrete and paver details. (Otniel Rodriguez ; [OtnielRodriguez@miamibeachfl.gov](mailto:OtnielRodriguez@miamibeachfl.gov) ; 305-673-7080)
9. Permittee shall notify the City of Miami Beach Public Works Department prior to beginning construction: Mr. Otniel Rodriguez, at 305-673-7080, email: [RightOfWay@miamibeachfl.gov](mailto:RightOfWay@miamibeachfl.gov). Permittee's contractor may be required to adjust working hours and/or schedule due to Special Events, and/or due to local municipality Noise Ordinance.
10. Coordinate with Miami-Dade Transit the potential need to relocate bus stop due to conflict with proposed work. Permittee shall coordinate proposed work with the Miami-Dade Transit Authority (Ms. Carol A. Wilson, PLS / 701 NW 1st Court, 15th Floor, Miami/ Phone: 786-469-5278/or Mr. Eric J. Muntan 305 375 4240 / [EJM@Miamiidade.gov](mailto:EJM@Miamiidade.gov) or Mr. Lee Vega 305 375 4240 / [LVEGA@Miamiidade.gov](mailto:LVEGA@Miamiidade.gov).)
11. Contact Miami-Dade County Traffic for coordination of traffic signal timing during construction. Please contact Mr. Joaquin Rabassa Jr. / Cell. Phone No.: 305-588-7570 / Office No.: 305- 679-0041).
12. Work must be coordinated with Beach PD&E Contact ([Odalys.Delgado@parsons.com](mailto:Odalys.Delgado@parsons.com)) & Beach P3 Contact ([Ryan.Fisher@miamidade.gov](mailto:Ryan.Fisher@miamidade.gov))
13. Steel plates: If steel plates are to be used instead of temporary backfill, then construction details or shop drawings are

## PERMIT NO.: 2019-H-691-00348 Special Instructions (continued)

The complete special instructions could not fit in the space allotted on Page 2 of the Utility Permit so they are displayed below.

to be submitted to the Department for review and approval prior to use.

14. The contractor is responsible for providing any necessary temporary shoring to minimize damage to the adjacent pavement and to protect public safety.
15. Trench restoration shall be in accordance with FDOT Standard Plans Index 125-001. The maximum length for the use of flowable fill shall be fifty (50) feet and a maximum depth of six (6) feet unless supported by an engineering document prepared by a registered professional engineer that specializes in soils engineering.
16. Damaged pavement shall be restored to match or exceed existent conditions and in accordance with the Department's design standards and specifications. Pavement restoration scope and method will be as directed in the permit plans or as directed by Department Representative. Damaged pavement will be restored at the expense of the Permittee.
17. Working hours within the F.D.O.T. right of way must be limited to Sunday through Thursday at night unless otherwise approved by FDOT.
18. Where pedestrian facilities are detoured, blocked, or closed during the work, please ensure to provide safe alternate accessible routes through or around the work zone that meets the requirements of the ADA Standards.
19. Any sidewalk disturbed will be replaced by section within 72 hours to FDOT specification
20. Prior to removal of existing curb or driveway, the edge of travel shall be sawcut to avoid damaging the existing roadway asphalt. All concrete to be removed in FDOT right-of-way shall be sawcut and removed from the nearest joint.
21. Permittee shall assure that any actions carried out are in accordance with all environmental regulatory requirements. When the Permittee's operations encounter or expose any abnormal condition which may indicate the presence of a hazardous waste, toxic waste, or contaminants, such operations shall cease immediately in the vicinity of the abnormal condition and Permittee shall notify the Department's inspector and Mr. Mauricio Gomez of the District VI Environmental Management Office at 1000 N.W. 111 Ave., Miami, Florida 33172 (telephone number 305-470-5228).
22. The project corridor is within the consultation area for the Florida bonneted bat which is listed as an endangered species. Trees along the project corridor have been identified as potential habitat for the bat.
23. Do not stage construction or perform surface operations within the drip line if existing canopy trees or palms. For any surface work within the drip line of existing trees, provide protection during construction per FDOT Standard Plans Index 110-100 and FDOT Specification 110.
24. All driveway accesses along to the proposed work must continue open throughout regular business schedule.
25. The Contractor shall have an authorized person available at/or near the work site on a 24-hour basis, 7 days a week in order to address emergency issues associated with the project.
26. If the proposed utility cannot be installed per the approved permitted plan and by FDOT specifications, a revised plan must be provided to the Department for review and approval prior to the installation of products or materials at the given locations where conflicts occur.
27. A copy of this permit and plans will be on the job site at all times during the construction of this facility.
28. Permittee is responsible for obtaining necessary permits from all other agencies involved.
29. Direct discharge to the Biscayne Bay, an outstanding Florida Water is prohibited. The FDOT drainage system outfalls to the intercostal waterway, therefore the Permittee cannot use the FDOT drainage system to discharge dewatering effluent. The overflow effluent, if any, needs to be controlled on-site and can NOT be discharged to an FDOT drainage system.

## PERMIT NO.: 2019-H-691-00348 Special Instructions (continued)

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The complete special instructions could not fit in the space allotted on Page 2 of the Utility Permit so they are displayed below.

30. **The proposed project area is adjacent to the Biscayne Bay Aquatic Preserves, which is designated Outstanding Florida Waters. No degradation of water quality, increased turbidity of the water, and/or the discharge of any foreign material into the water shall be permitted.**
  
31. **Beginning any work within the F.D.O.T. Right-of-Way associated with this permit constitutes acceptance of these conditions.**

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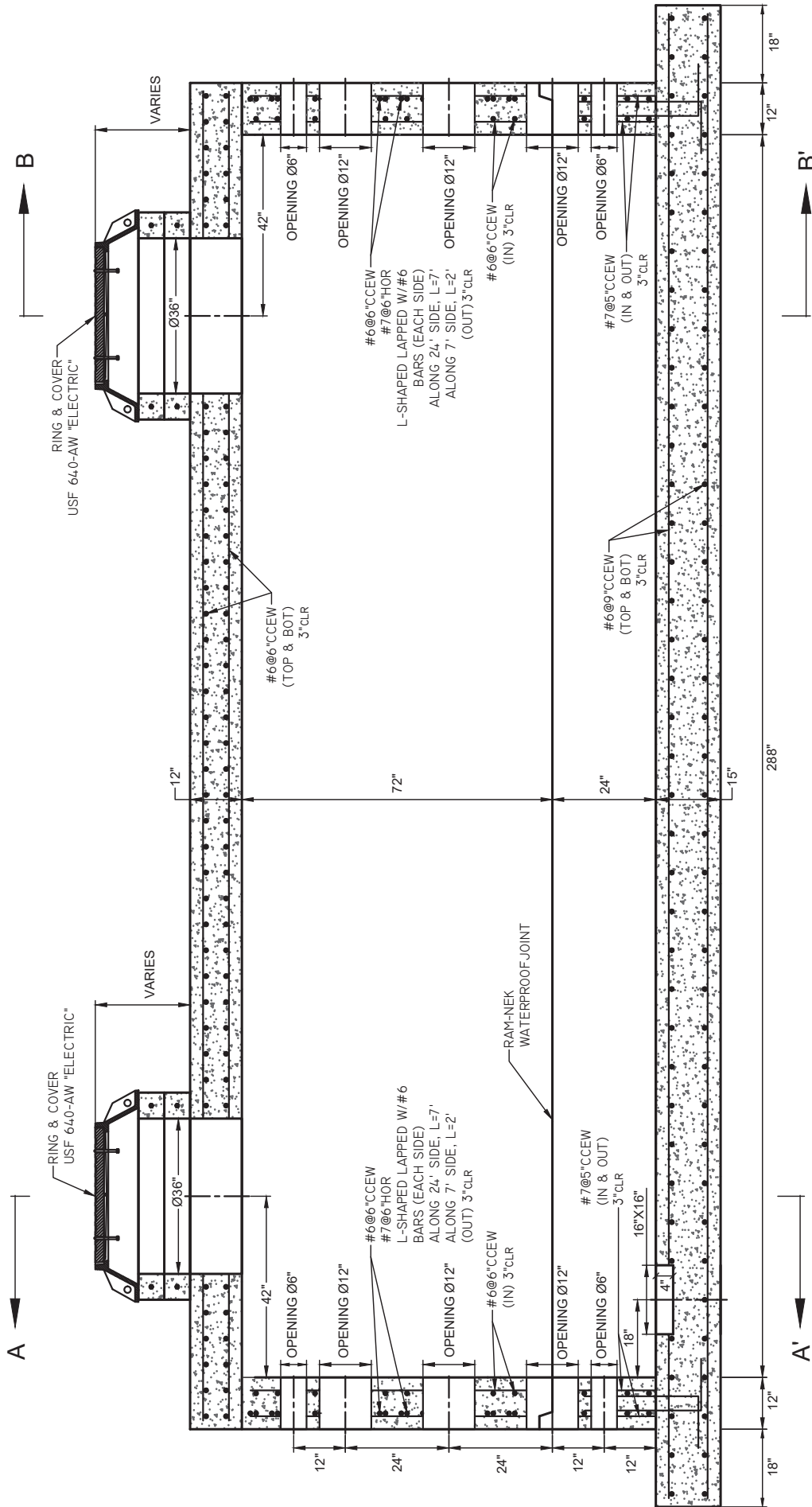
Approved  
2019-H-691-00348  
Elizabeth Jett  
9/28/2022

**WORK WITHIN THE  
F.D.O.T.  
RIGHT OF WAY SHALL  
CONFORM TO CURRENT  
F.D.O.T. STANDARDS  
AND SPECIFICATIONS**

REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS


COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	120"X348"	14.10	28.55
WALL:	84"X288"	5.13	10.39
BASE:	84"X288"	19.23	38.94
RISER:	84"X288"	15.61	31.61
TOPSLAB:	108"X312"	8.42	17.05

NOTE:  
Contractor to add dowels per  
FDOT Index 425-001 between  
risers and top slab.



MDC016

# 75549

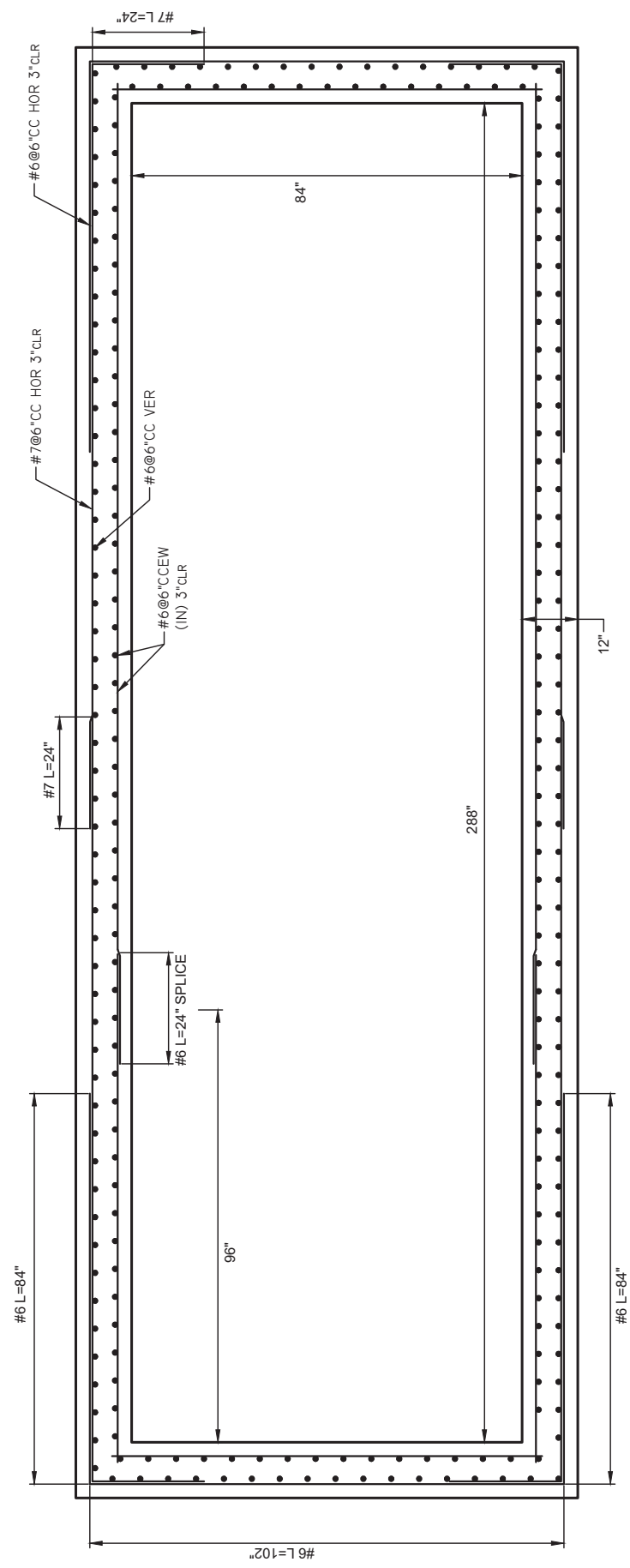
 (305)-220-1220 (305)-220-1019 (FAX)	ELECTRICAL MANHOLE RC-84"X288"		STR No:	MH-01C(1/4)
	JOB NAME:	138KV MIAMI-MIAMI BEACH	REVISION:	07/06/2022
CUSTOMER:	Ferreira Construction	DATE:		Elizabeth Jett
DWG:	AGB	JOB No:		TJP-21-404/2022
DATE:	07/06/2022			



REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

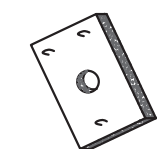
COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	120"X348"	14.10	28.55
WALL:	84"X288"	5.13	10.39
BASE:	84"X288"	19.23	38.94
RISER:	84"X288"	15.61	31.61
TOPSLAB:	108"X312"	8.42	17.05
			34101.00

## RISER REINFORCEMENT



MDC017

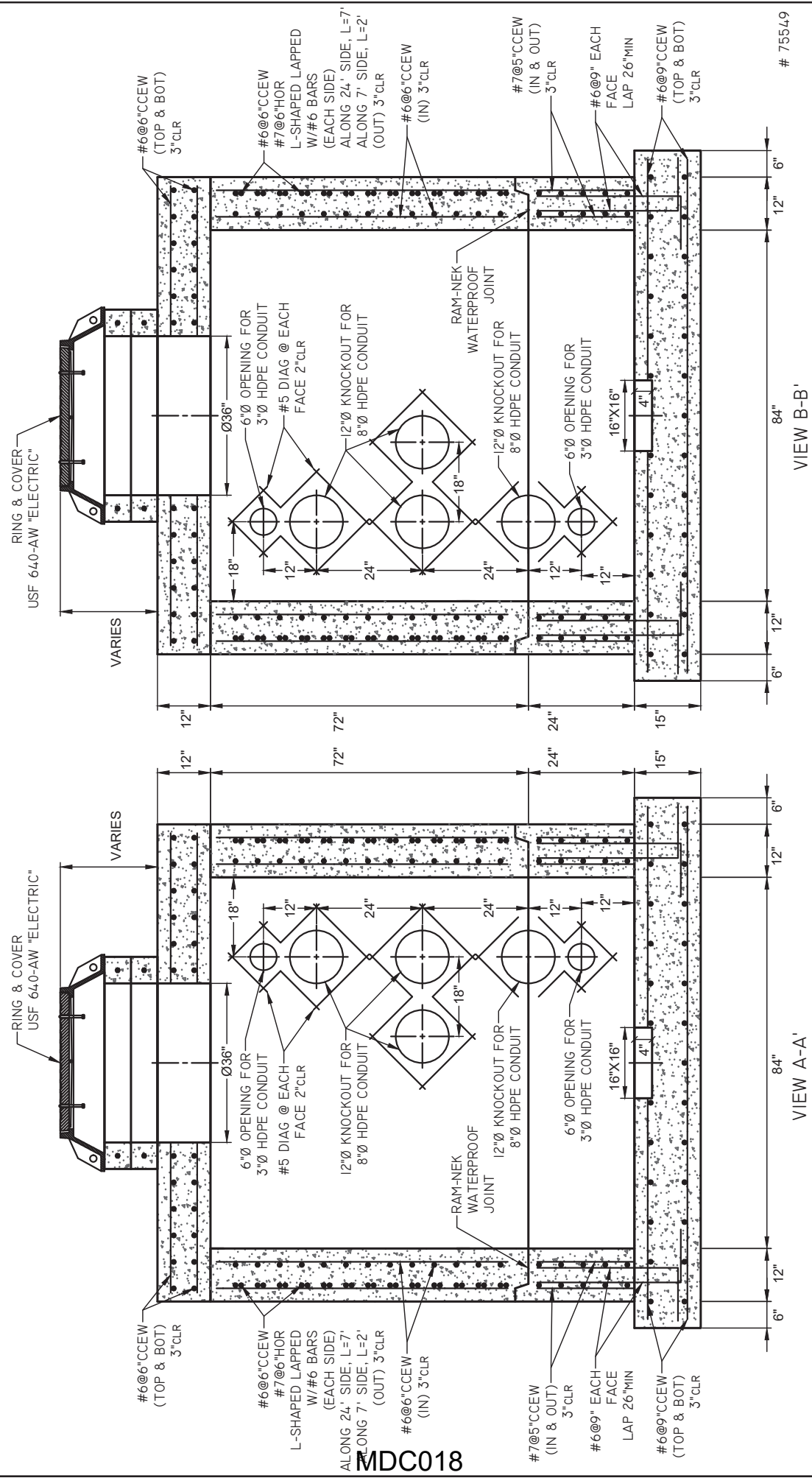
# 75549

 <p><b>TJ PRECAST CORP.</b> (305)-220-1220 (305)-220-1019 (FAX)</p>	ELECTRICAL MANHOLE RC-84"X288"		STR No:	MH-01 (2/24)	
	JOB NAME:	138KV MIAMI-MIAMI BEACH		REVISION:	07/06/2022
	CUSTOMER:	FERREIRA CONSTRUCTION		DATE:	Elizabeth Jett
	DWG:	AGB		JOB No:	TJP-21-404
DATE:	07/06/2022			2019-11-691-00348	

REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

NOTE:  
Contractor to add dowels per  
FDOT Index 425-001 between  
risers and top slab.

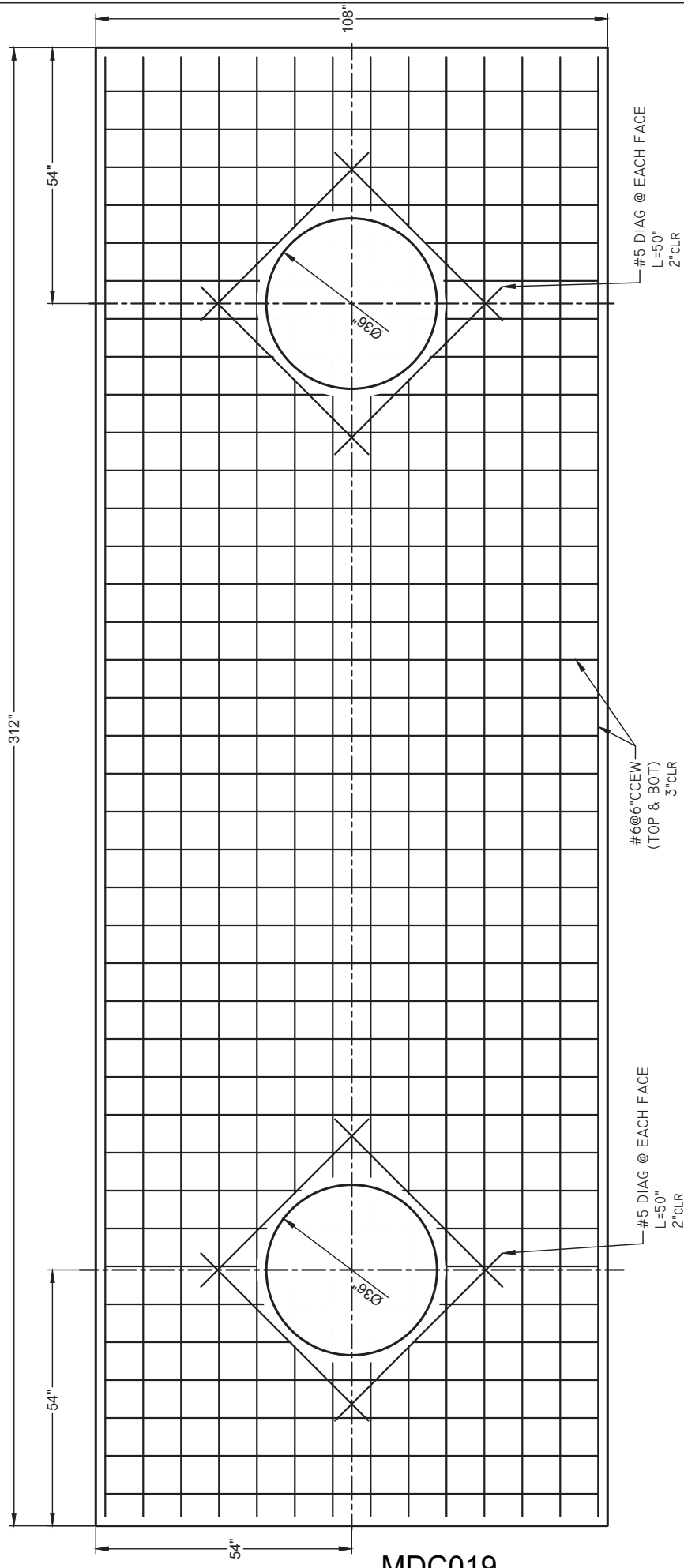
COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	120"X348"	14.10	28.55
WALL:	84"X288"	5.13	10.39
BASE:	84"X288"	19.23	38.94
RISER:	84"X288"	15.61	31.61
TOPSLAB:	108"X312"	8.42	17.05



 (305)-220-1220 (305)-220-1019(FAX)	ELECTRICAL MANHOLE RC-84"X288"		STR No:	MH-01(3/4)
	JOB NAME:	138KV MIAMI-MIAMI BEACH	REVISION:	07/06/2022
CUSTOMER:	Ferreira Construction	DATE:	07/06/2022	Elizabeth Jett
DWG:	AGB	JOB No:	TJP-21-404	07/08/2022
DATE:	07/06/2022			# 75549

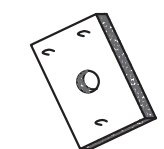
REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	120"X324"	10.50	21.26 42525.00
WALL:	84"X288"	7.70	15.59 31185.00
BASE:	84"X288"	18.20	36.86 73710.00
RISER:	84"X288"	13.05	26.43 52852.50
TOPSLAB:	108"X312"	8.42	17.05 34101.00



MDC019

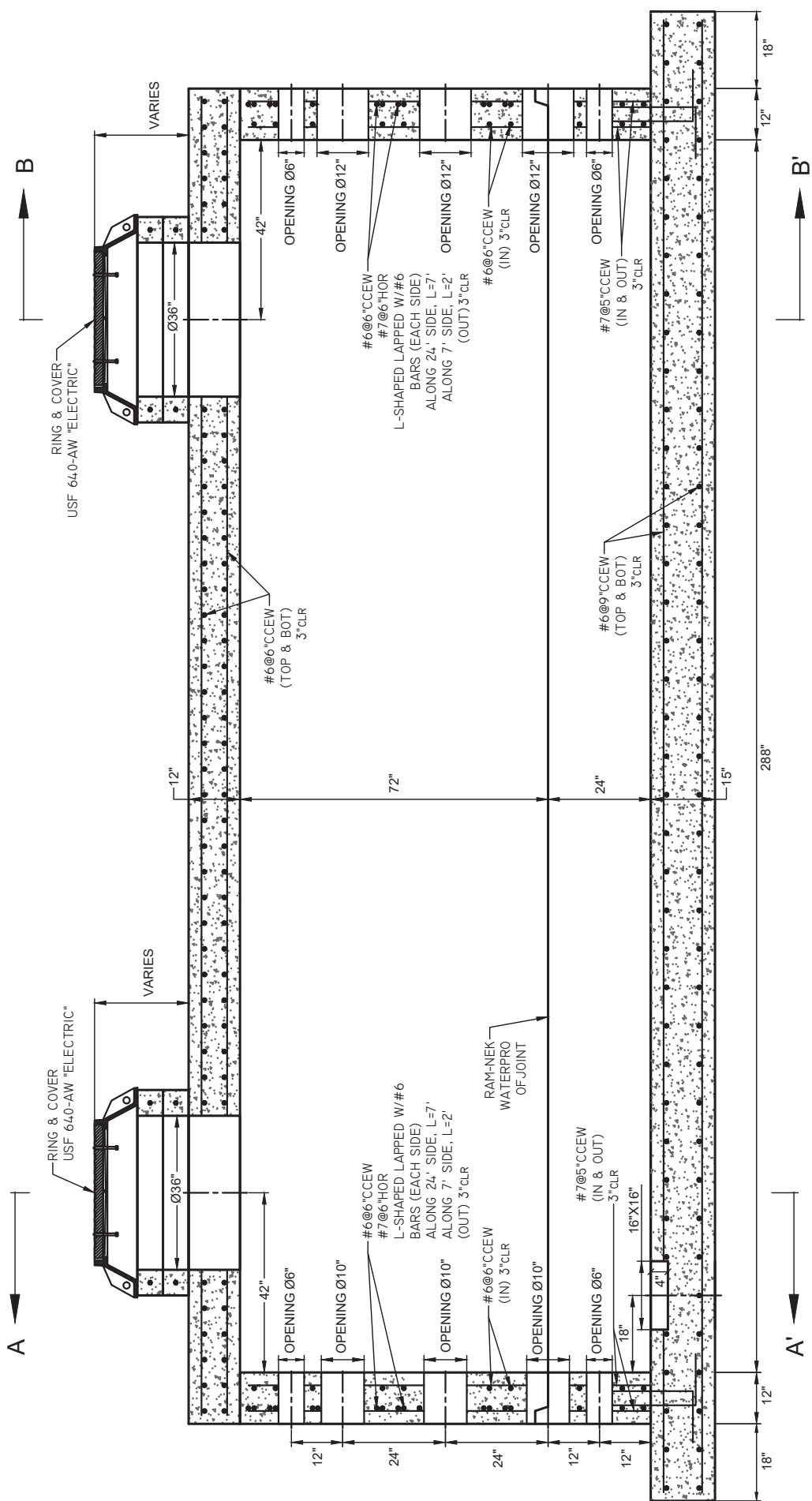
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 <p><b>TJ PRECAST CORP.</b> (305)-220-1220 (305)-220-1019 (FAX)</p>	ELECTRICAL MANHOLE RC-84"X288"		STR No:	MH-01 (4/14)
	JOB NAME:	138KV MIAMI-MIAMI BEACH	REVISION:	2019-11-691-00348
CUSTOMER:	FERREIRA CONSTRUCTION	DATE:	07/06/2022	Elizabeth Jett
DWG:	AGB	JOB No:	TJP-21-404	07/08/2022
DATE:	07/06/2022			

REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	108"X348"	12.70	25.72
WALL:	72"X288"	4.98	10.08
BASE:	72"X288"	17.68	35.80
RISER:	72"X288"	15.15	30.68
TOPSLAB:	96"X312"	7.41	15.01

NOTE:  
Contractor to add dowels per  
FDOT Index 425-001 between  
risers and top slab.



# 75550

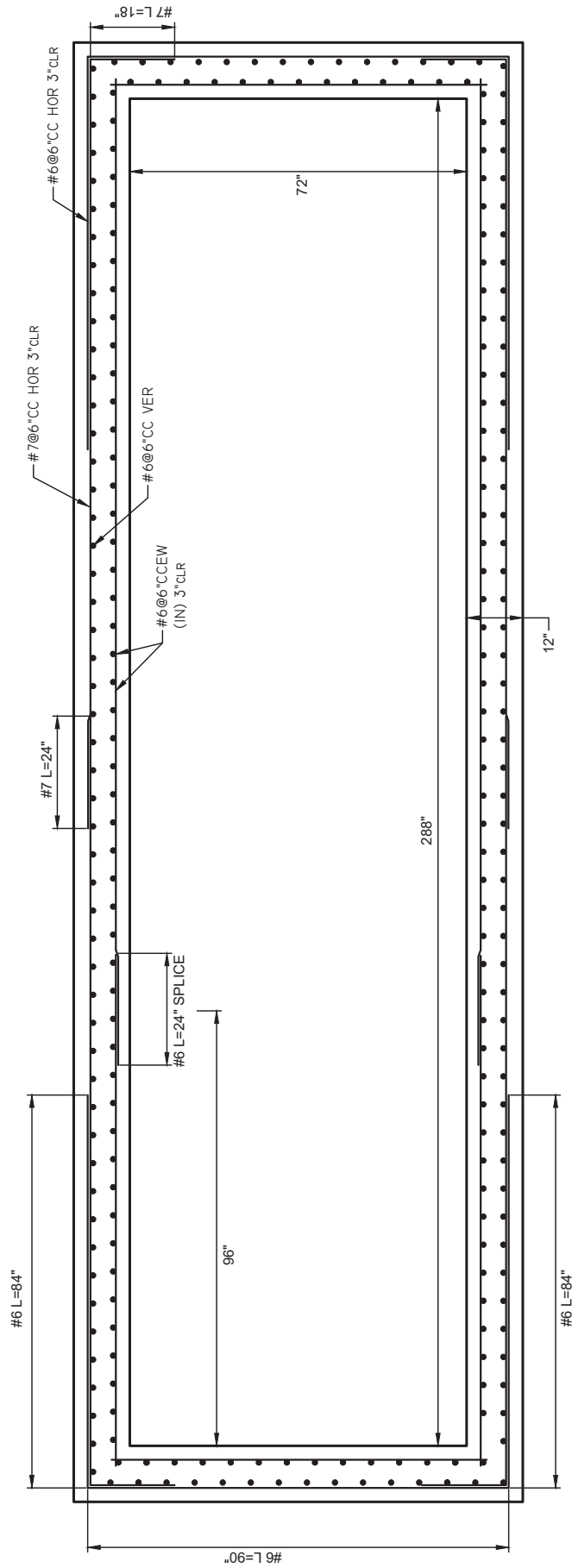
MDC020

 <p>(305)-220-1220 (305)-220-1019 (FAX)</p>	ELECTRICAL MANHOLE RC-72"X288"		STR No:	MH-020(1/4)
	JOB NAME:	138KV MIAMI-MIAMI BEACH	REVISION:	07/06/2022
CUSTOMER:	Ferreira Construction	DATE:	07/06/2022	2019-11-691-00348
DWG:	AGB	JOB No:	TJP-21-404	Elizabeth Jett
DATE:	07/06/2022			2022-07-08/2022

REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	108"X348"	12.70	51435.00
WALL:	72"X288"	4.98	20169.00
BASE:	72"X288"	17.68	71604.00
RISER:	72"X288"	15.15	61357.50
TOPSLAB:	96"X312"	7.41	30010.50

## RISER REINFORCEMENT



MDC021

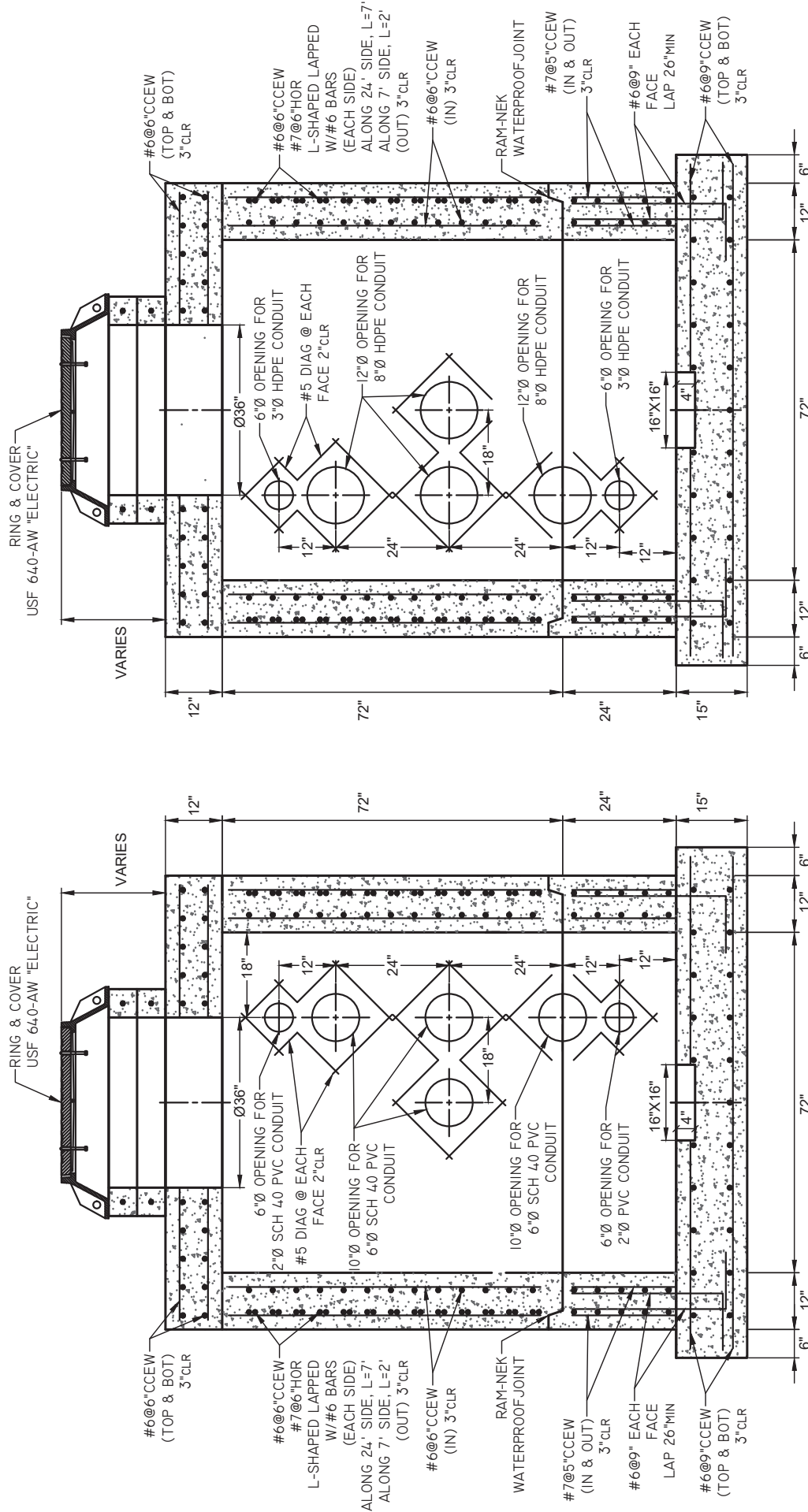
# 75550

 <p><b>TJ PRECAST CORP.</b> (305)-220-1220 (305)-220-1019 (FAX)</p>	ELECTRICAL MANHOLE RC-72"X288"		STR No:	MH-02 (2/14)
	JOB NAME:	138KV MIAMI-MIAMI BEACH	REVISION:	07/06/2022
	CUSTOMER:	FERREIRA CONSTRUCTION	DATE:	Elizabeth Jett
	DWG:	AGB	JOB No:	TJP-21-404
DATE:	07/06/2022			2019-11-691-00348

REBAR	W.W.MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

NOTE:  
Contractor to add dowels per  
FDOT Index 425-001 between  
risers and top slab.

COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	108"X348"	12.70	25.72
WALL:	72"X288"	4.98	10.08
BASE:	72"X288"	17.68	35.80
RISER:	72"X288"	15.15	30.68
TOPSLAB:	96"X312"	7.41	15.01



MDC022

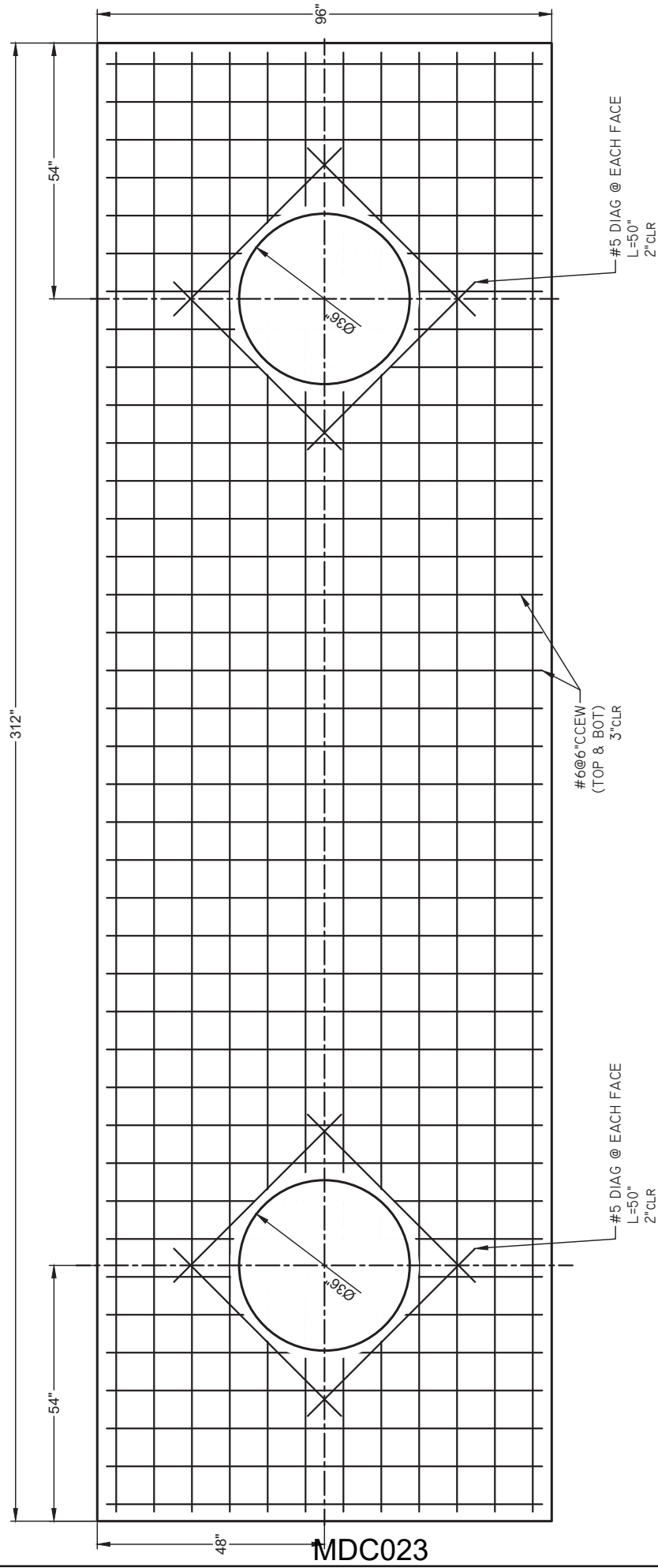
VIEW A-A' # 75550

VIEW B-B'

 <p>(305)-220-1220 (305)-220-1019 (FAX)</p>	ELECTRICAL MANHOLE RC-72"X288"		STR No:	MHP-02 (3/4)
	JOB NAME:	138KV MIAMI-MIAMI BEACH	REVISION:	07/06/2022
CUSTOMER:	Ferreira Construction	DATE:	07/06/2022	Elizabeth Jett
DWG:	AGB	JOB No:	TJP-21-404	07/06/2022
DATE:	07/06/2022			

REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

COMPONENT	O.D DIMENS	C. Y.	W(Ton/Pound)
BOT. SLAB:	106"X348"	12.70	25.72 51435.00
WALL:	72"X288"	4.98	10.08 20169.00
BASE:	72"X288"	17.68	35.80 71604.00
RISER:	72"X288"	15.15	30.68 61357.50
TOPSLAB:	96"X312"	7.41	15.01 30010.50

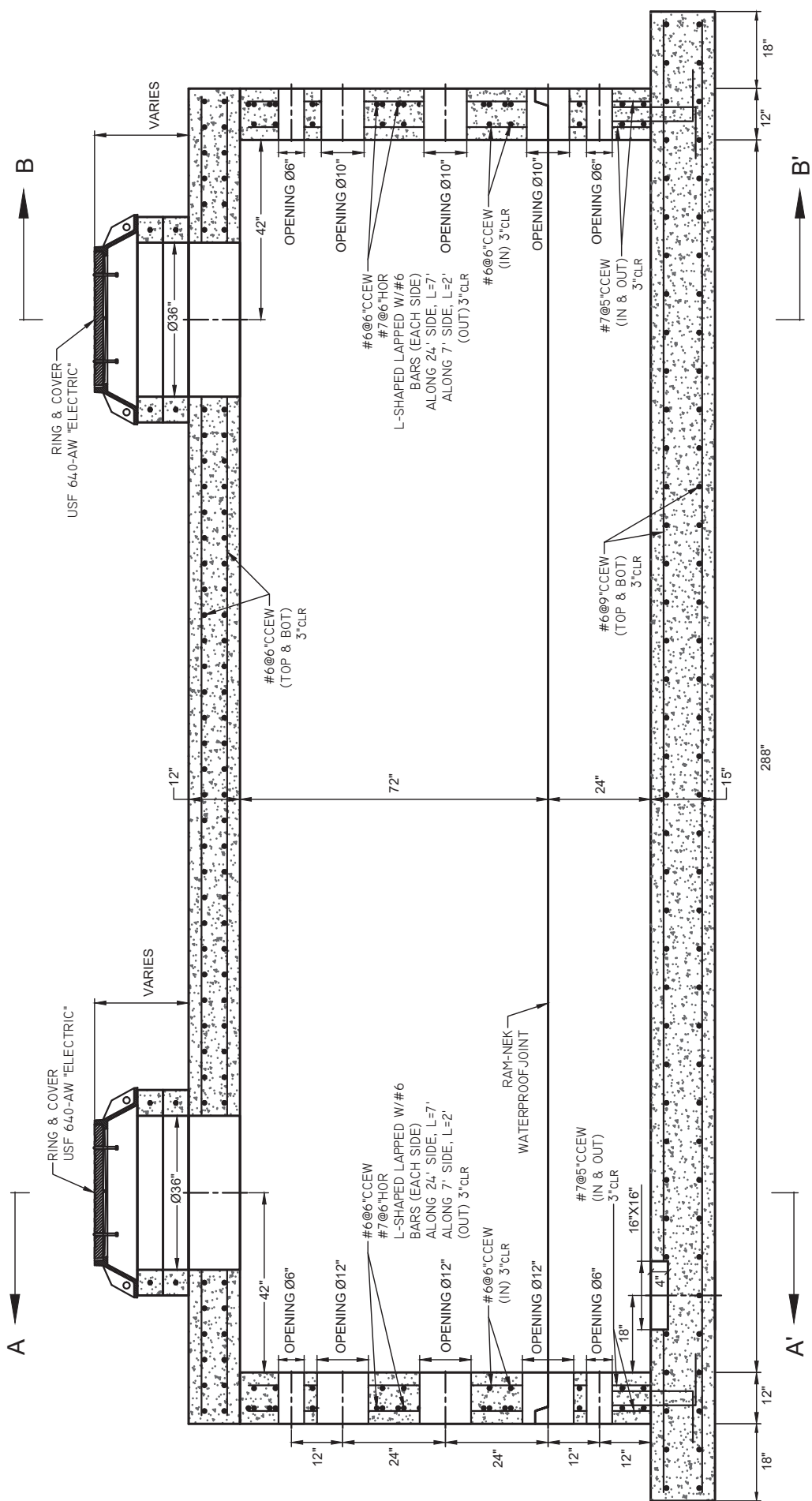


# 75550

 <p><b>TJ PRECAST CORP.</b> (305)-220-1220 (305)-220-1019(FAX)</p>	ELECTRICAL MANHOLE RC-72"X288"		STR No:	MP-02 (4/4)
	JOB NAME:	138KV MIAMI-MIAMI BEACH	REVISION:	07/06/2022
CUSTOMER:	FERREIRA CONSTRUCTION	DATE:	07/06/2022	2019-11-691-00348
DWG:	AGB	JOB No:	TJP-21-404	Elizabeth Jett
DATE:	07/06/2022			

REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	108"X348"	12.70	51435.00
WALL:	72"X288"	4.98	20169.00
BASE:	72"X288"	17.68	71604.00
RISER:	72"X288"	15.15	61357.50
TOPSLAB:	96"X312"	7.41	30010.50



MDC024

# 77171

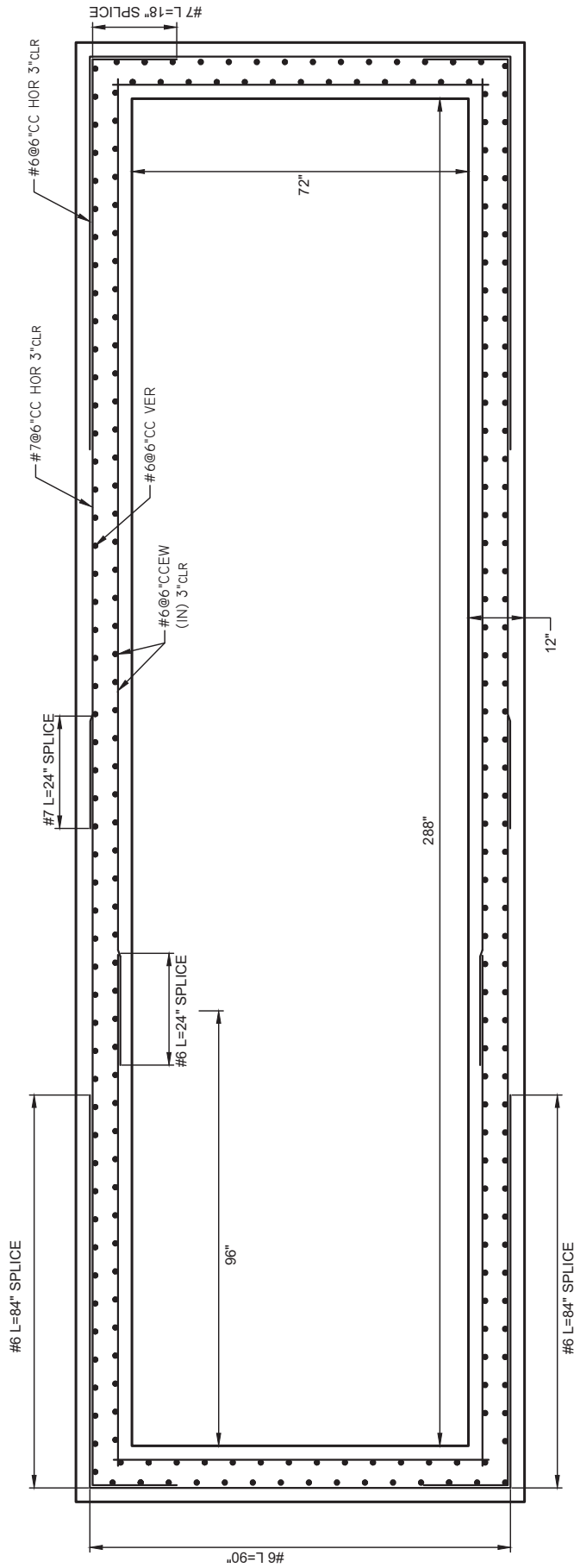
 <p>(305)-220-1220 (305)-220-1019 (FAX)</p>	ELECTRICAL MANHOLE RC-72"X288"		STR No:	MH-03 (1/4)
	JOB NAME: 138KV MIAMI-MIAMI BEACH		REVISION:	07/06/2022
CUSTOMER: FERREIRA CONSTRUCTION		DATE:	Elizabeth Jett	
DWG: AGB		JOB No:	TJP-21-404	
DATE: 07/06/2022				



REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	108"X348"	12.70	51435.00
WALL:	72"X288"	4.98	20169.00
BASE:	72"X288"	17.68	71604.00
RISER:	72"X288"	15.15	61357.50
TOPSLAB:	96"X312"	7.41	30010.50

## RISER REINFORCEMENT



MDC025

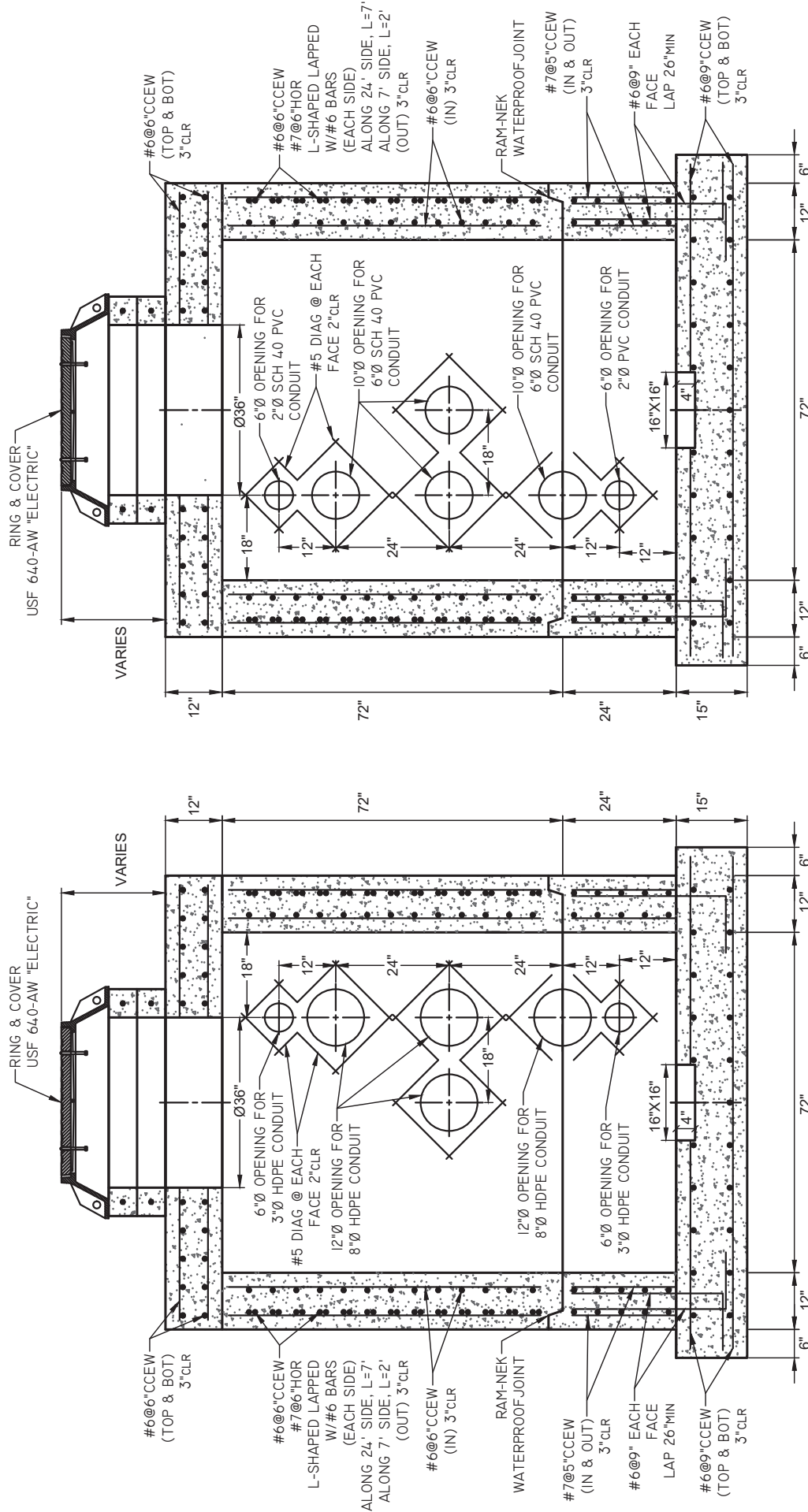
# 77171

 <p><b>TJ PRECAST CORP.</b> (305)-220-1220 (305)-220-1019 (FAX)</p>	ELECTRICAL MANHOLE RC-72"X288"		STR No:	MH-03CC (2/4)
	JOB NAME:	138KV MIAMI-MIAMI BEACH		REVISION:
CUSTOMER:	FERREIRA CONSTRUCTION		DATE:	Elizabeth Jett
DWG:	AGB		JOB No:	TJP-21-404
DATE:	07/06/2022		2019-11-691-00348	

REBAR	W.W.MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

NOTE:  
Contractor to add dowels per  
FDOT Index 425-001 between  
risers and top slab.

COMPONENT	O.D DIMENS	C.Y.	W(Ton/Pound)
BOT. SLAB:	108"X348"	12.70	25.72
WALL:	72"X288"	4.98	10.08
BASE:	72"X288"	17.68	35.80
RISER:	72"X288"	15.15	30.68
TOPSLAB:	96"X312"	7.41	15.01



MDC026

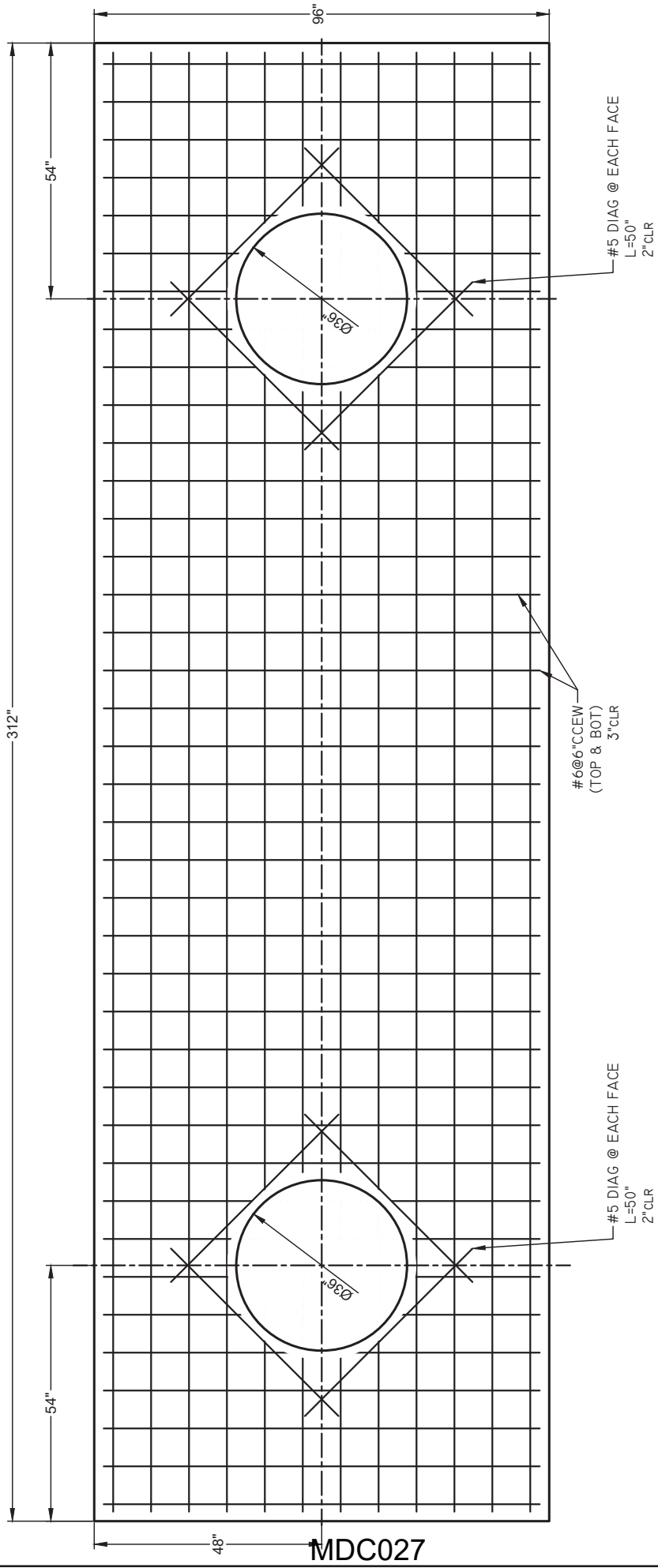
VIEW A-A' # 77171

VIEW B-B'

 <p>TJ <b>PRECAST</b> <b>CORP.</b> (305)-220-1220 (305)-220-1019 (FAX)</p>	ELECTRICAL MANHOLE RC-72"X288"		STR No:	MH-03 (3/4)
	JOB NAME: 138KV MIAMI-MIAMI BEACH		REVISION:	07/06/2022
CUSTOMER: FERREIRA CONSTRUCTION		DATE:	Elizabeth Jett	
DWG: AGB		JOB No:	TJP-21-404-07/08/2022	
DATE: 07/06/2022				

REBAR	W. W. MESH	CONCRETE
GRADE 60	GRADE 65	5,500PSI@28DAYS

COMPONENT	O.D DIMENS	C. Y.	W(Ton/Pound)
BOT. SLAB:	106"X348"	12.70	51435.00
WALL:	72"X288"	4.98	20169.00
BASE:	72"X288"	17.68	71604.00
RISER:	72"X288"	15.15	61357.50
TOPSLAB:	96"X312"	7.41	30010.50



MDC027

# 77171

 <p><b>TJ PRECAST CORP.</b> (305)-220-1220 (305)-220-1019(FAX)</p>	ELECTRICAL MANHOLE RC-72"X288"		STR No:	MH-03C(4/4)
	JOB NAME:	138KV MIAMI-MIAMI BEACH	REVISION:	07/06/2022
CUSTOMER:	FERREIRA CONSTRUCTION	DATE:	07/06/2022	2019-11-691-00348
DWG:	AGB	JOB No:	TJP-21-404	Elizabeth Jett
DATE:	07/06/2022			

**FLORIDA POWER AND LIGHT**  
**MIAMI BEACH TO ALTON & VENETIAN TO ALTON**  
**69 kV UNDERGROUND TRANSMISSION LINE**

**EXCAVATION FOR INSTALLATION OF**  
**UNDERGROUND TRANSMISSION LINE BEHIND SEAWALL**  
**AT MACARTHUR CAUSEWAY BRIDGE**

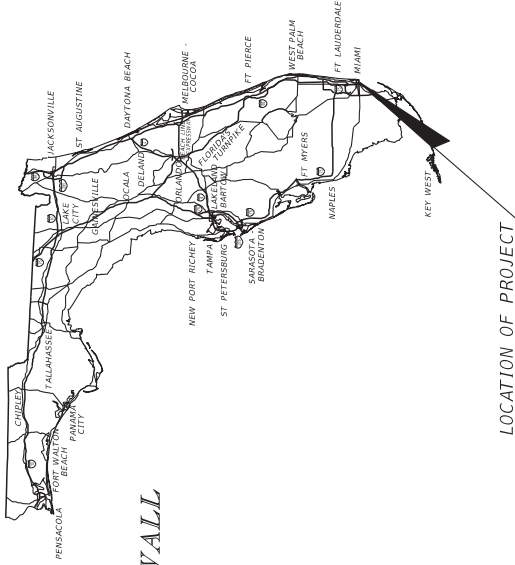
**STRUCTURE PLANS**

**INDEX OF STRUCTURE PLANS**  
**SHEET NO.**

- W-1 KEY SHEET
- W-2 GENERAL NOTES
- W-3 PLAN AND ELEVATION
- W-4 TEMPORARY SHEET PILE WALL DATA TABLE
- W-5 CONSTRUCTION SEQUENCE
- W-6 LATERAL SUPPORT FRAME DETAILS (1 OF 2)
- W-7 LATERAL SUPPORT FRAME DETAILS (2 OF 2)
- W-8 ANCHOR PILE CAP AND TIE-BACK RECONSTRUCTION DETAILS
- W-9 EXISTING SEAWALL CAP REPAIR DETAILS
- WX-1, WX-2 EXISTING WALL PLANS (WALL SECTIONS TO THE EAST OF ANCHOR 4A ONLY)



LOCATION OF PROJECT



LOCATION OF PROJECT

STRUCTURE PLANS  
 ENGINEER OF RECORD:



THIS ITEM HAS BEEN DIGITALLY  
 SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL  
 PRINTED COPIES OF THIS DOCUMENT ARE  
 NOT CONSIDERED SIGNED AND SEALED  
 AND THE SIGNATURE MUST BE VERIFIED  
 ON ANY ELECTRONIC COPIES.

ATKINS NORTH AMERICA, INC.  
 800 WATERFORD WAY (NW 62ND AVE.)  
 MIAMI, FL 33126  
 CERTIFICATE OF AUTHORIZATION NO.: 24  
 GLENN F. MYERS, P.E. NO. 32644

FLORIDA POWER & LIGHT  
 PROJECT ENGINEER: ROBERTO CRUZ, P.E.

FLORIDA POWER & LIGHT  
 PROJECT NUMBER: T00000017065

Approved  
 2019-11-694-00348

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	2021	W-1

**GENERAL NOTES**

- A. DESIGN SPECIFICATIONS:
  - 1. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION, 2020.
  - 2. STEEL CONSTRUCTION MANUAL, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 15TH EDITION, 2017.
  - 3. FDOT STRUCTURES DESIGN MANUAL, 2021.
- B. CONSTRUCTION SPECIFICATIONS:
  - FDOT JANUARY 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- C. DESIGN METHOD:
  - LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD).
- D. VERTICAL DATUM:
  - NAVD 88
- E. DESIGN LOADINGS:
  - DEAD LOADS:
    - UNIT WEIGHT OF REINFORCED CONCRETE INCLUDING REINFORCEMENT ..... 150 pcf
    - UNIT WEIGHT OF STRUCTURAL STEEL..... 490 pcf
  - CONSTRUCTION LOADS:
    - THE FOLLOWING SURCHARGE LOADS SHALL NOT BE EXCEED:
      - BEHIND EXISTING SEAWALL (TIE-BACKS IN PLACE): 250 PSF UP TO 5FT FROM BACK FACE.....
      - UP TO 8FT FROM BACK FACE..... 400 PSF
    - NO SURCHARGE SHALL BE ALLOWED BEHIND THE EXISTING SEAWALL IN THE AREA TO THE EAST OF ANCHOR 4 (AREA WITH NO RIPRAP IN FRONT OF THE WALL).
    - BEHIND TEMPORARY SHEET PILE WALL:
      - REFER TO SHEET W-4
- F. MATERIALS:
  - 1. CONCRETE
    - CONCRETE SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 346.

- 3. REINFORCING STEEL:
  - REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
  - ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BARS EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE.
  - REINFORCING STEEL DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS
- 4. ADHESIVE ANCHOR BONDING MATERIAL:
  - ADHESIVE ANCHORS : THREADED RODS PER ASTM F1554 (GRADE 55)
  - ADHESIVE ANCHORS : THREADED BOLTS PER ASTM A325 AND THREADED RODS PER ASTM F1554 (GRADE 55) AS INDICATED
- 5. STRUCTURAL STEEL:
  - STEEL PLATES, ANGLES AND ROLLED SECTIONS : ASTM A709 GRADE 50
  - STEEL H-PILES AND SHEET PILES: ASTM 572 GRADE 50
  - WELD METAL : E70XX
- 6. NEOPRENE PADS
  - SHALL BE 60 DUROMETER HARDNESS
- G. ENVIRONMENT
  - THE ENVIRONMENTAL CLASSIFICATION FOR PERMANENT STRUCTURES IS EXTREMELY AGGRESSIVE (MARINE STRUCTURE)
- H. PLAN DIMENSIONS
  - ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.
- I. UTILITIES
  - THE UTILITIES SHOWN IN THESE PLANS ARE AT APPROXIMATE LOCATIONS. DATA CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL NOTIFY ALL INVOLVED UTILITY COMPANIES TO VERIFY EXACT LOCATIONS PRIOR TO START OF CONSTRUCTION.
  - THE CONTRACTOR SHALL ASSURE THAT ANY EXISTING UTILITIES ARE NOT ENDANGERED OR DISTURBED DURING CONSTRUCTION AND THAT ACTIVE UTILITIES ARE PROPERLY MAINTAINED WITHIN THE CONSTRUCTION LIMITS.

- J. PHASING OF WORK
  - REFER TO CONSTRUCTION SEQUENCE DETAILS AND NOTES IN SHEET W-5
- K. EXISTING CONDITIONS
  - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURE DIMENSIONS AND ELEVATIONS AND NOTIFY DISCREPANCIES FOUND TO THE ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION.
  - REFER TO ATKINS REPORT "STRUCTURAL EVALUATION OF EXISTING SEAWALL AT MACARTHUR CAUSEWAY" DATED JUNE 2021 FOR ADDITIONAL INFORMATION ABOUT THE EXISTING SEAWALL, INCLUDING CONDITION OF TIE-BACKS AND TOP CONCRETE CAP.
  - ANY DAMAGE TO THE EXISTING SEAWALL STRUCTURE AS A RESULT OF THIS WORK SHALL BE REPAIRED BY THE CONTRACTOR IN ACCORDANCE WITH THE FDOT SPECIFICATIONS AT NO COST TO THE DEPARTMENT.
- L. SOIL PARAMETERS:
  - SOIL PARAMETERS ARE BASED ON THE RESULTS AND RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL REPORT PREPARED BY TERRACON CONSULTANTS, INC., DATED OCTOBER 19, 2020
- M. CONSTRUCTION SAFETY:
  - CONTRACTOR SHALL INSTALL AND MAINTAIN PHYSICAL BARRIERS DURING CONSTRUCTION AND PROVIDE ADEQUATE SIGNALIZATION TO RESTRICT THE ACCESS OF VEHICLES AND CONSTRUCTION EQUIPMENT TO AREAS WHERE THE APPLICATION OF SURCHARGE LOADS BEHIND THE EXISTING SEAWALL IS NOT ALLOWED AS INDICATED IN THIS SET OF PLANS.
  - CONTRACTOR SHALL SUBMIT A SHEET PILE INSTALLATION PLAN BEFORE THE BEGINNING OF THE EXCAVATION WORK, INDICATING THE SEQUENCE THAT WILL BE FOLLOWED FOR THE INSTALLATION OF THE TEMPORARY LATERAL SUPPORT FRAMES, REMOVAL OF EXISTING TIE BAKS AND INSTALLATION OF SHEET PILES, TO ENSURE THAT THE EXISTING SEAWALL WILL BE PROPERLY SUPPORTED DURING THIS PROCESS.
  - MONITORING OF EXISTING STRUCTURES:
    - THE CONTRACTOR SHALL PROVIDE A SURVEY, SETTLEMENT AND VIBRATION MONITORING OF THE EXISTING SEAWALL AND ANY ADJACENT STRUCTURES IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATION SECTION 108.

- N. MONITORING OF EXISTING STRUCTURES:
  - THE CONTRACTOR SHALL PROVIDE A SURVEY, SETTLEMENT AND VIBRATION MONITORING OF THE EXISTING SEAWALL AND ANY ADJACENT STRUCTURES IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATION SECTION 108.
- LIST OF FREQUENTLY USED SYMBOLS AND ABBREVIATIONS
  - ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
  - CIP - CAST-IN-PLACE
  - EXIST. - EXISTING
  - EXP. - EXPANSION
  - FDOT - FLORIDA DEPARTMENT OF TRANSPORTATION
  - JOINT
  - MIN. - MINIMUM
  - TEMP. - TEMPORARY
  - TYP. - TYPICAL
  - ℄ - CENTER LINE
  - Ø - DIAMETER
  - ⊕ - PLATE

- 2. CONCRETE COVER:
  - CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES.

DATE	BY	DESCRIPTION	REVISIONS

DRAWN BY: HL 01/2022 CHECKED BY: JF 01/2022 DESIGNED BY: HL 01/2022 CHECKED BY: KD 01/2022	<b>ATKINS</b> 3230 W. Commercial Blvd, Ste. 600 Ft. Lauderdale, FL 33309 FPE Certificate of Authorization No. 24 Glenn F. Myers, PE 32644	FLORIDA POWER & LIGHT	SHEET TITLE: GENERAL NOTES
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REF. - (Date, No.) 2019.H.694.00348	SHEET NO. W-2
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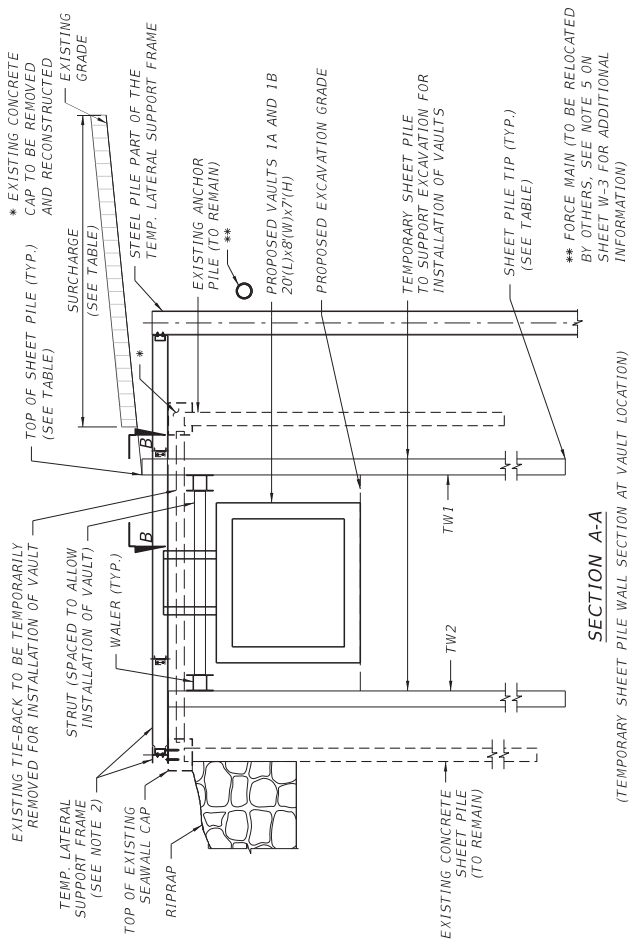
PROJECT NAME: MIAMI BEACH TO ALTON & VENETIAN TO ALTON 69K UNDERGROUND TRANSMISSION LINE	DATE: 01/28/2021
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Approved  
 Elizabeth Jett  
 01/28/2021

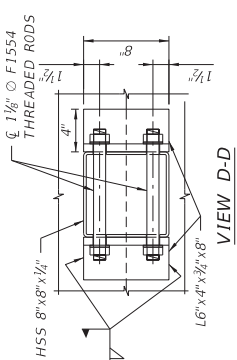
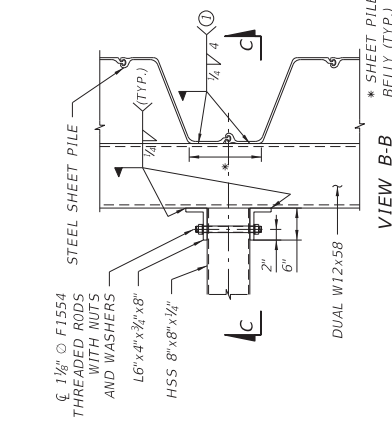
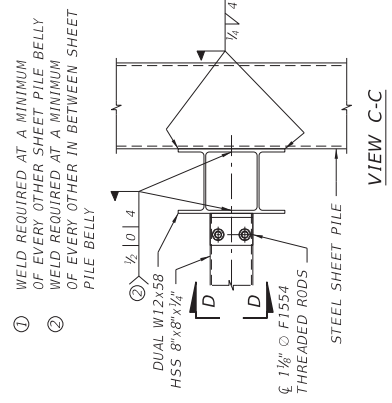


- NOTES:
- REFER TO PLAN AND ELEVATION SHEET W-3 FOR LOCATION OF SECTION A-A AND WALL LIMITS.
  - REFER TO SHEETS W-6 AND W-7 FOR LATERAL SUPPORT FRAME DETAILS.



\*\*\* FORCE MAIN (TO BE RELOCATED BY OTHERS, SEE NOTE 5 ON SHEET W-3 FOR ADDITIONAL INFORMATION)

SECTION A-A  
TEMPORARY SHEET PILE WALL SECTION AT VAULT LOCATION)



- WELD REQUIRED AT A MINIMUM OF EVERY OTHER SHEET PILE BELLY
- WELD REQUIRED AT A MINIMUM OF EVERY OTHER IN BETWEEN SHEET PILE BELLY

STEEL SHEET PILE WALL WITH INTERNAL SUPPORT DATA TABLE

WALL LOCATION		INTERNAL SUPPORT				SHEET PILES		SOIL ELEVATION		WATER ELEVATION		ELEVATIONS					
		WALLER SECTION	STRUT SECTION	MAX. STRUT SPACING	SHEET PILE SECTION	* MINIMUM PLASTIC SECTION MODULUS (in <sup>3</sup> /ft)	MINIMUM REQUIRED MOMENT OF INERTIA (in <sup>4</sup> /ft)	MINIMUM WALL TIP ELEVATION (ft)	WALL TOP ELEV. (ft)	FRONT OF WALL (ft)	BACK OF WALL (ft)	FACTORED DESIGN SURCHARGE LOAD (psf)	A (ft)	B (ft)	C (ft)	D (ft)	
TW1	206+16.88 / 207+34.03	W12x58 (DOUBLE)	HSS 8"x8"x1/2"	25'-0"	PZ40	NA	NA	-37.0	5.8	-9.5	5.0	-9.5	0.0	-9.5	0.0	5.0	-7.5
TW2	206+22.63 / 207+35.69	W12x58 (DOUBLE)	HSS 8"x8"x1/2"	25'-0"	PZ40	NA	NA	-37.0	3.4	-9.5	3.0	-9.5	0.0	-9.5	0.0	3.0	-7.5

\* Minimum Section Modulus is based on Hot Rolled Sections. For Cold Rolled Sections, increase Minimum Section Modulus by 20%.

TABLE NOTES:

- CONTRACTOR IS ADVISED THAT NATURAL LIMESTONE WAS ENCOUNTERED IN THE SOIL BORING BEGINNING AT APPROXIMATELY 250 PSF - APPLIED NOT CLOSER THAN 2FT BEHIND WALL ELEVATION -16FT THAT MAY REQUIRE SPECIAL TOOLS AND/OR METHODS TO EXCAVATE OR PENETRATE.
- THE DESIGN PARAMETERS INDICATED IN THE TABLE WERE USED IN THE SHEET PILE WALL ANALYSIS.
- REFER TO ELEVATION VIEW ON SHEET W-3 FOR LOCATION OF ELEVATIONS A THRU D.

- SURCHARGE LOADS BEHIND TEMPORARY SHEET PILE WALL SHALL NOT EXCEED: 250 PSF - APPLIED NOT CLOSER THAN 2FT BEHIND WALL
- 400 PSF - APPLIED NOT CLOSER THAN 4FT BEHIND WALL
- 600 PSF - APPLIED NOT CLOSER THAN 6FT BEHIND WALL

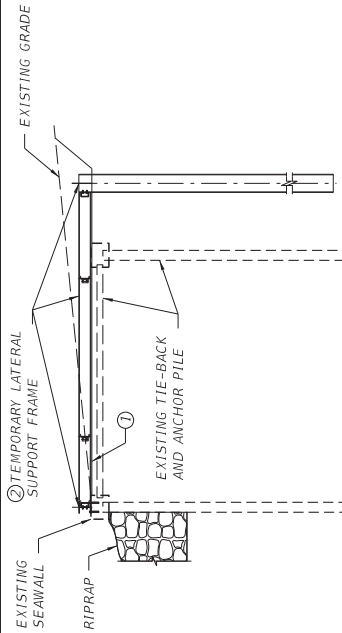
DATE	BY	DESCRIPTION

**ATKINS**  
3230 W. Commercial Blvd., Ste. 600 Ft. Lauderdale, FL 33309  
FAPC Certificate of Authorization No. 24  
Glenn F. Myers, PE 32644

FLORIDA POWER & LIGHT  
PROJECT NAME: MIAMI BEACH TO ALTON & VENETIAN TO ALTON 69KV UNDERGROUND TRANSMISSION LINE

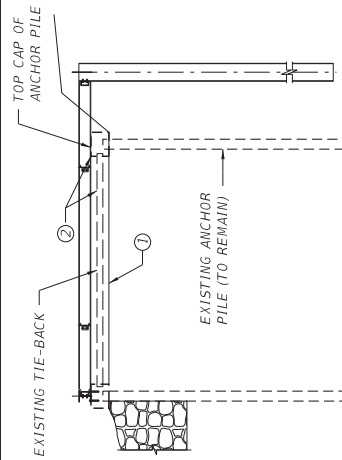
TEMPORARY SHEET PILE WALL DATA TABLE  
SHEET NO. W-4  
DATE: 4/26/2022  
TIME: 11:47 AM  
DRAWN BY: H.L. D./2022  
CHECKED BY: J.P. S./2022  
DESIGNED BY: J.P. S./2022  
PROJECT NO.: 2019-H-694-00348

Approved  
2019-H-694-00348  
Elizabeth Jet



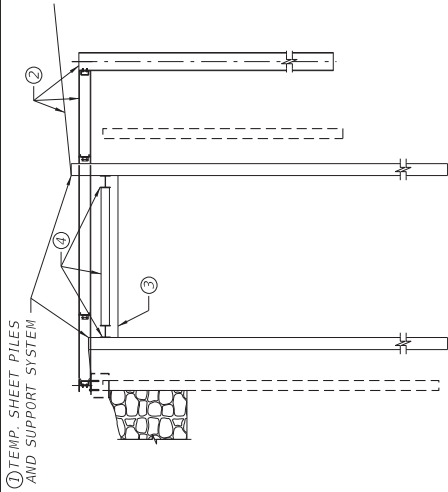
STAGE 1:

- 1 EXCAVATE TO TOP LEVEL OF EXISTING SEAWALL CAP WITHOUT DAMAGING THE SEAWALL EXISTING TIE-BACKS.
- 2 INSTALL LATERAL SUPPORT FRAMES (INCLUDING AUXILIARY) REFER TO SHEET'S W-6 AND W-7 FOR LATERAL SUPPORT FRAME DETAILS.



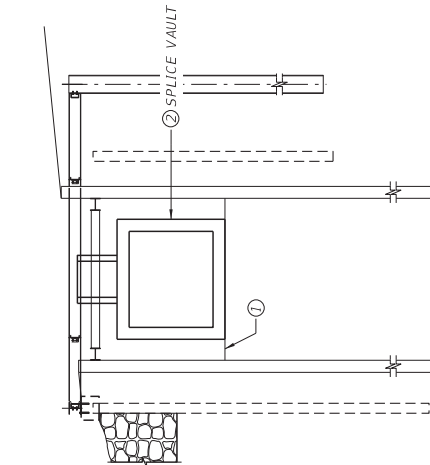
STAGE 2:

- 1 EXCAVATE TO LEVEL OF EXISTING TIE-BACK.
- 2 REMOVE EXISTING TIE-BACKS AND EXISTING CONCRETE CAP ON TOP OF ANCHOR PILES. EXISTING ANCHOR PILE TO REMAIN. REFER TO SHEET FOR W-8 FOR EXISTING ANCHOR PILE CAP AND TIE-BACK REMOVAL DETAILS.



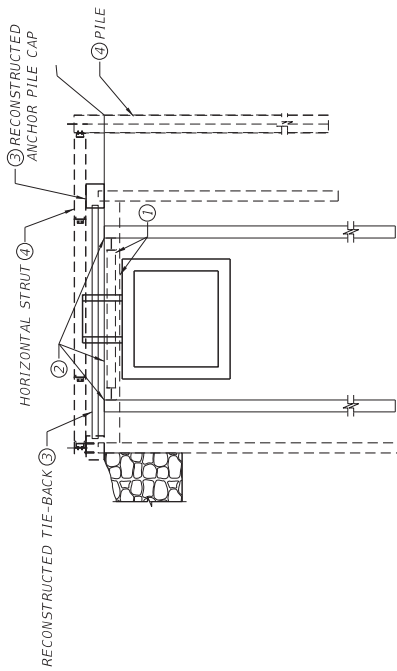
STAGE 3:

- 1 INSTALL TEMPORARY SHEET PILE WALLS.
- 2 RESTORE EXISTING GRADE BEHIND SHEET PILE WALL WITH COMPACTED SOIL. EXERCISE CARE TO AVOID DAMAGING INSTALLED COMPONENTS OF THE LATERAL SUPPORT FRAME.
- 3 EXCAVATE SOIL BETWEEN SHEET PILES TO ELEVATION -2.0'.
- 4 INSTALL WALERS AND STRUTS.



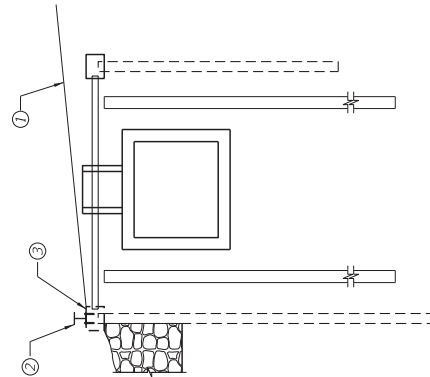
STAGE 4:

- 1 REMOVE AUXILIARY LATERAL SUPPORT FRAMES ONLY. (REFER TO SHEET W-3 FOR LOCATION OF AUXILIARY LATERAL SUPPORT FRAMES)
- 2 EXCAVATE TO THE BOTTOM ELEVATION OF PROPOSED SPLICE VAULTS AND TRANSMISSION LINE
- 3 INSTALL SPLICE VAULTS AND TRANSMISSION LINE



STAGE 5:

- 1 FILL SOIL BACK TO ELEV. -2.0' FOR REMOVAL OF WALERS AND STRUTS.
- 2 CUT TEMPORARY SHEET PILE 1FT BELOW LEVEL OF EXISTING TIE-BACK. THE REMAINING PORTION OF THE SHEET PILE TO STAY IN PLACE. FILL SOIL BACK TO LEVEL OF EXISTING TIE-BACK PREVIOUSLY REMOVED.
- 3 INSTALL REPLACEMENT TIE-BACKS AND CAST CONCRETE CAP ON TOP OF EXISTING ANCHOR PILE. REFER TO SHEET W-8 FOR ANCHOR PILE CAP AND TIE-BACK RECONSTRUCTION DETAILS.
- 4 REMOVE PILE AND HORIZONTAL STRUT FROM LATERAL SUPPORT FRAME ONLY WHEN CAST-IN-PLACE CONCRETE (ANCHOR PILE CAP AND PORTION OF TIE-BACKS) HAS REACHED 60% OF 28-DAY SPECIFIED COMPRESSION STRENGTH.



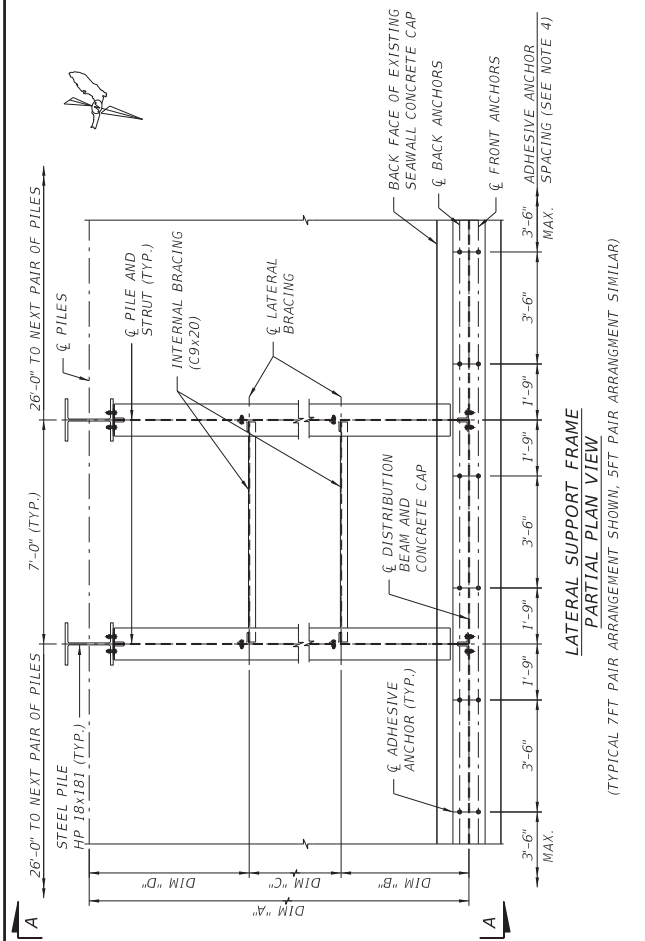
STAGE 6:

- 1 FILL SOIL BACK TO ORIGINAL GRADE LEVEL. EXERCISE CARE TO AVOID DAMAGING INSTALLED TIE-BACKS AND RECONSTRUCTED ANCHOR PILE CAP.
- 2 REMOVE DISTRIBUTION BEAM FROM TOP OF EXISTING SEAWALL CAP.
- 3 REMOVE ADHESIVE ANCHORS AND REPAIR TOP OF CONCRETE CAP. REFER TO SHEET W-8 FOR ADHESIVE ANCHOR REMOVAL DETAILS AND EXISTING SEAWALL CAP REPAIR DETAILS. **APPROVED**

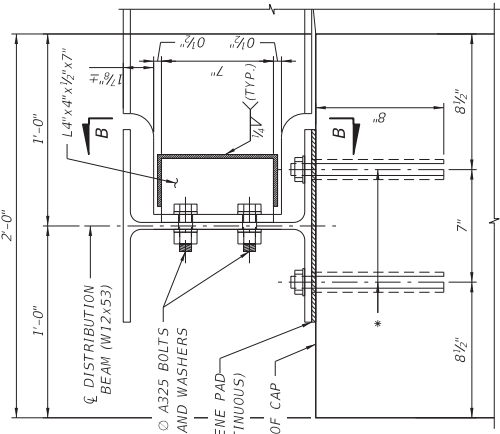
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	<b>ATKINS</b>	<b>FLORIDA POWER &amp; LIGHT</b>	CONSTRUCTION SEQUENCE MIAMI BEACH TO ALTON & VENETIAN TO ALTON 69KV UNDERGROUND TRANSMISSION LINE										
3230 W. Commercial Blvd., Ste. 100 Ft. Lauderdale, FL 33309 FPEPC Certificate of Authorization No. 24 Glenn F. Myers, PE 32644	DRAWN BY: HL 01/2022 CHECKED BY: JG 01/2022 DESIGNED BY: JG 01/2022 CHECKED BY: HL 01/2022 KD 01/2022	PROJECT NAME: MIAMI BEACH TO ALTON & VENETIAN TO ALTON 69KV UNDERGROUND TRANSMISSION LINE	SHEET TITLE: CONSTRUCTION SEQUENCE REF. - Proj. No.: 2019-H-694-00348 SHEET NO.: W-5										
REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	BY	DATE	BY	DESCRIPTION					
DATE	BY	DATE	BY	DESCRIPTION									



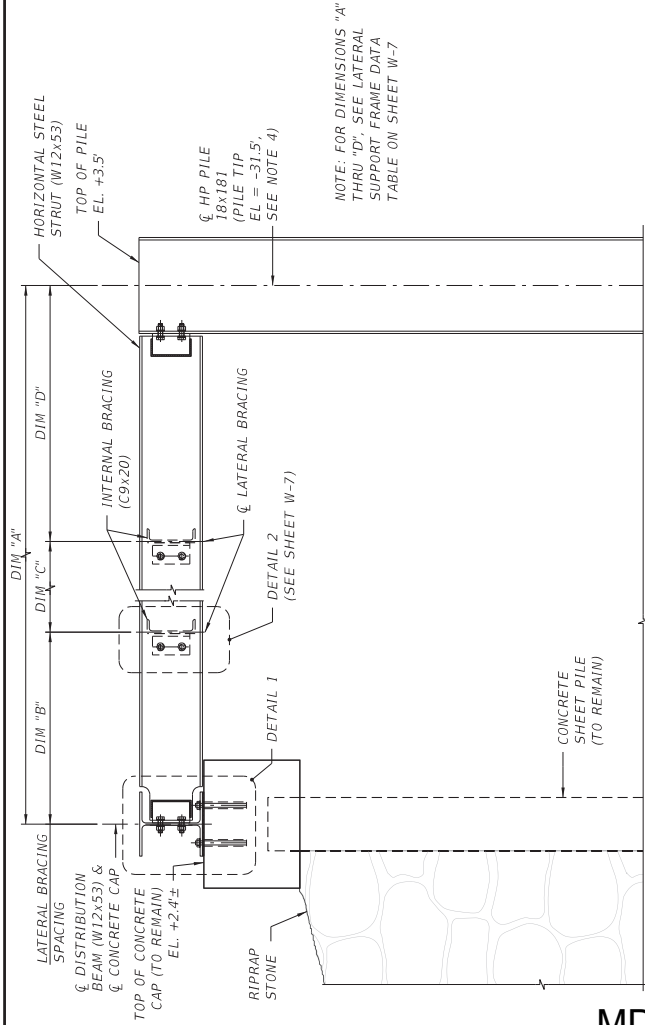


LATERAL SUPPORT FRAME  
PARTIAL PLAN VIEW  
(TYPICAL 7FT PAIR ARRANGEMENT SHOWN, 5FT PAIR ARRANGEMENT SIMILAR)



DETAIL I

\*  $\varnothing$  3/4"  $\varnothing$  EPOXY ANCHORS  
(SEE NOTE 2. REFER TO PARTIAL PLAN VIEW FOR LONGITUDINAL SPACING)

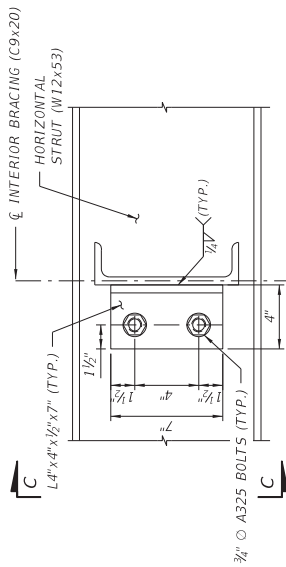


VIEW A-A  
LATERAL SUPPORT FRAME  
(EXCAVATION NOT SHOWN FOR CLARITY)

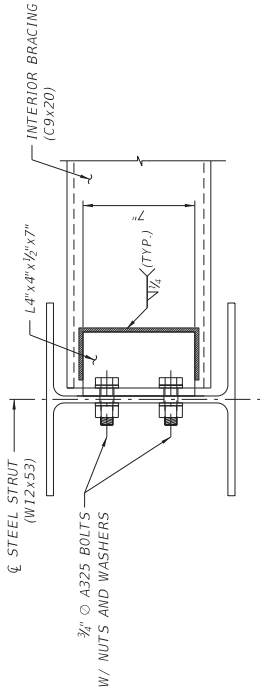
NOTE: FOR DIMENSIONS "A" THRU "D", SEE LATERAL SUPPORT FRAME DATA TABLE ON SHEET W-7

- NOTES:
1. DETAILS IN THIS SHEET (MEMBER SIZES AND CONNECTIONS) ARE ALSO APPLICABLE TO AUXILIARY LATERAL SUPPORT FRAMES AND SINGLE LATERAL SUPPORT FRAME WITH EXCEPTION THAT INTERIOR BRACINGS ARE NOT REQUIRED. REFER TO SHEET W-3 FOR LOCATION OF SINGLE AND AUXILIARY LATERAL SUPPORT FRAMES
  2. ADHESIVE BONDED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS FOR HOLE DIAMETER AND HOLE CLEANING TECHNIQUE AND MEETING THE REQUIREMENTS OF SECTION 416 OF THE FDOT CONSTRUCTION SPECIFICATIONS.
  3. AFTER COMPLETION OF THE EXCAVATION AND BACK FILLING WORK, THE LATERAL SUPPORT FRAME (PILES, STRUTS, DISTRIBUTION BEAM AND ADHESIVE ANCHORS) SHALL BE REMOVED AND DISPOSED. THE ADHESIVE ANCHORS SHALL BE REMOVED AND THE TOP OF CAP SHALL BE REPAIRED AS SHOWN IN THE EXPOSED ANCHOR REMOVAL DETAIL ON SHEET W-9. A LONGITUDINAL CRACK AT THE TOP OF THE CAP LOCATED NEAR THE FRONT FACE (WATER SIDE) WAS FOUND IN THE AREA TO THE EAST OF TIE-BACK 4. TO PROTECT THIS AREA OF FURTHER DAMAGE, DO NOT INSTALL FRONT ANCHORS AND INSTALL BACK ANCHORS AT REDUCED SPACING OF 1'-9" ONLY IN THIS AREA. NOTIFY THE ENGINEER IN CASE ADDITIONAL CRACKS OR DAMAGES ARE FOUND AT THE TOP OF THE CAP IN OTHER LOCATIONS BEFORE INSTALLATION OF ANCHORS.
  5. PILE INSTALLATION NOTES:  
 - CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO ANY PILE INSTALLATION ACTIVITIES.  
 - PREDRILL INITIAL 10FT TO MINIMIZE VIBRATION ON ADJACENT ROADWAY.  
 - CONTRACTOR IS ADVISED THAT NATURAL LIMESTONE WAS ENCOUNTERED IN THE SOIL BORING BEGINNING AT APPROXIMATELY ELEVATION -16FT THAT MAY REQUIRE SPECIAL TOOLS AND/OR METHODS TO EXCAVATE OR PENETRATE.  
 - MINIMUM TIP ELEVATION (-31.5FT) IS REQUIRED FOR LATERAL STABILITY.

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION



DETAIL 2  
(TYPICAL BOTH ENDS)



VIEW C-C

NOTES:

- FOR LOCATION OF DETAIL 2 SEE SHEET W-6.

LATERAL SUPPORT FRAME VARIABLES				
LINE	DIMENSION			
	"A" (FT-IN)	"B" (FT-IN)	"C" (FT-IN)	"D" (FT-IN)
1	22'-0"	NA	NA	NA
2,3	24'-0"	6'-0"	13'-0"	5'-0"
4,5	24'-0"	6'-0"	13'-0"	5'-0"
6,7	24'-0"	6'-0"	13'-0"	5'-0"
8,9	23'-0"	6'-0"	13'-0"	4'-0"

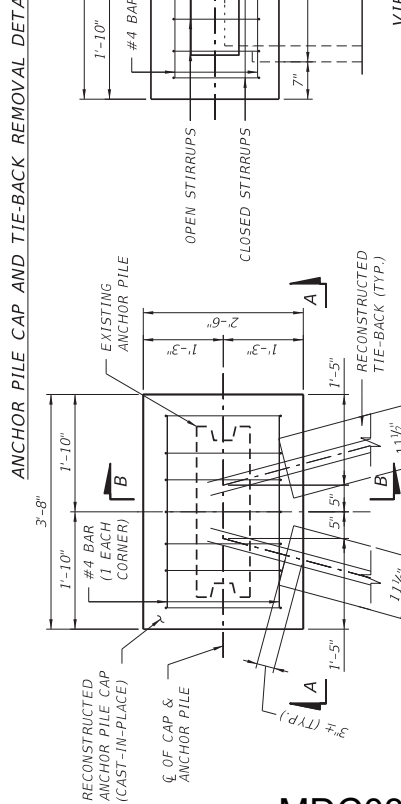
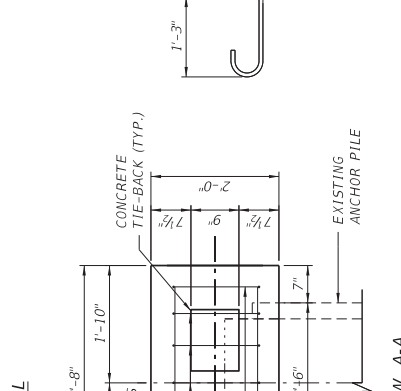
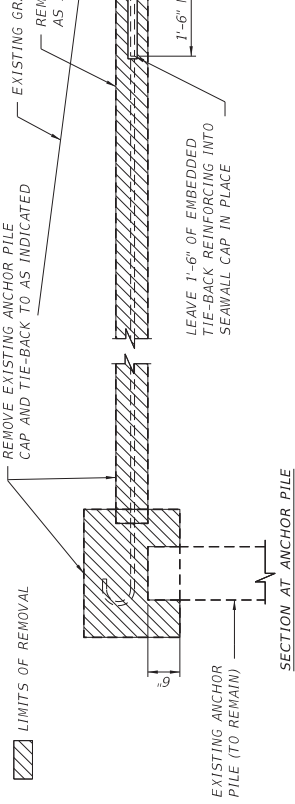
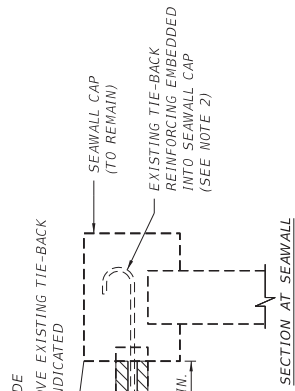
NOTES:

- SEE SHEET W-6 FOR LOCATION OF DIMENSIONS "A" THRU "D".
- SEE SHEET W-3 FOR LOCATION OF LINES 1 THRU 9.

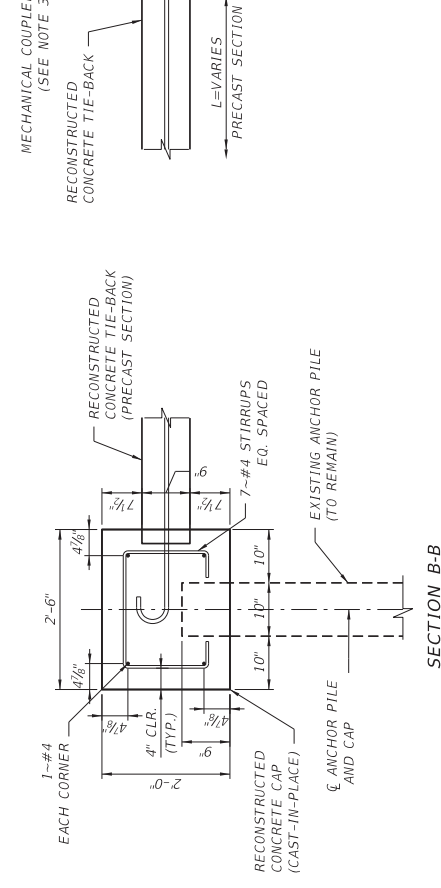
<b>ATKINS</b>	3230 W. Commercial Blvd., Ste. 600, Ft. Lauderdale, FL 33309 FBPE Certificate of Authorization No. 24 Glenn F. Myers, PE 32644	<b>FLORIDA POWER &amp; LIGHT</b> PROJECT NAME: MIAMI BEACH TO ALTON & VENETIAN TO ALTON 69KV UNDERGROUND TRANSMISSION LINE	SHEET TITLE: LATERAL SUPPORT FRAME DETAILS (2 OF 2)
DRAWN BY: H.L. 01/2022 CHECKED BY: J.P. 01/2022 DESIGNED BY: H.L. 01/2022 CHECKED BY: K.D. 01/2022	REF. - Proj. No. 2019-H-694-00348	SHEET NO. W-7	PROJECT NO. 1928720

**NOTES:**

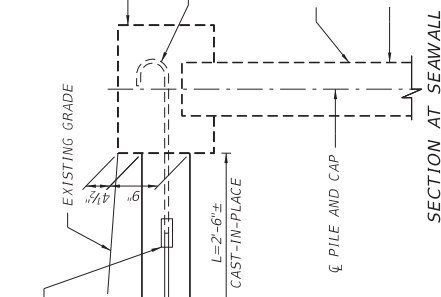
1. LENGTH OF PRECAST SECTION TO BE DETERMINED IN FIELD. PRECAST LENGTH MUST ACCOUNT FOR 4"± OF TIE-BACK SECTION EMBEDDED INTO RECONSTRUCTED ANCHOR PILE CAP AND 2'-6"± OF CAST-IN-PLACE SECTION IN THE CONNECTION TO THE EXISTING SEAWALL CAP. CONTRACTOR SHALL AVOID DAMAGING EXISTING TIE-BACK REINFORCING TO REMAIN DURING TIE-BACK REMOVAL. EXISTING REINFORCING SHALL BE CLEANED, STRAIGHTENED AND MECHANICALLY SPLICED WITH REINFORCING OF PRECAST SECTION OF RECONSTRUCTED TIE-BACK. IF EXISTING BARS ARE DAMAGED DURING TIE-BACK REMOVAL AND ARE DETERMINED TO BE UNSATISFACTORY BY THE ENGINEER, THEY SHALL BE REPLACED AS SHOWN IN THE "EXISTING TIE-BACK CONNECTION REPAIR DETAIL" ON SHEET W-9.
2. MECHANICAL COUPLER SHALL DEVELOP 125% OF THE BAR YIELDING STRESS (TYPE LENTON CONNECT S2 OR FDOT APPROVED EQUAL)
- 3.



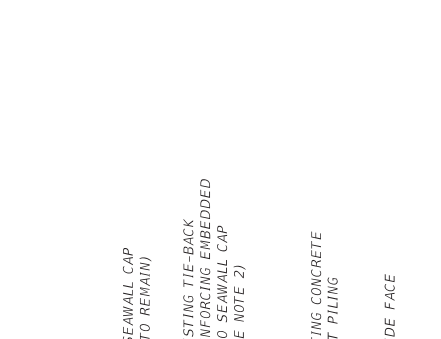
**RECONSTRUCTED ANCHOR PILE CAP AND TIE-BACK - PLAN**



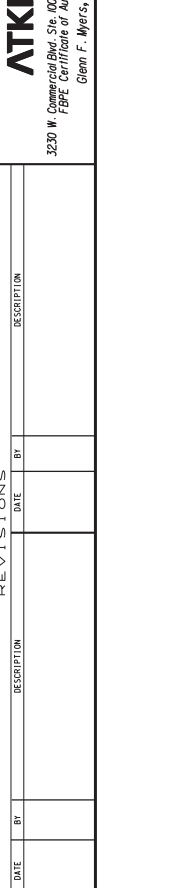
**SECTION C-C**



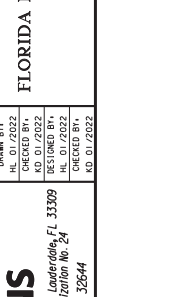
**ELEVATION**



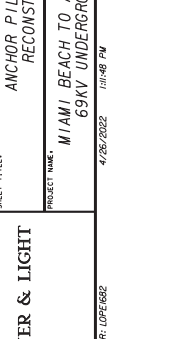
**SECTION A-A**



**SECTION B-B**



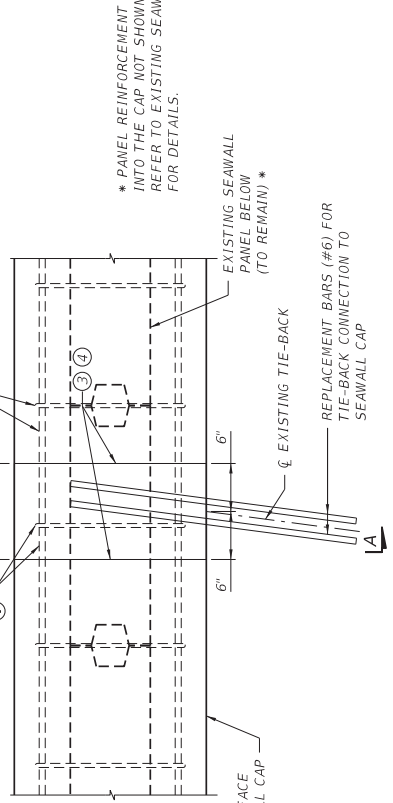
**SECTION AT SEAWALL**



<b>ATKINS</b> 3230 W Commercial Blvd, Ste 600 Ft. Lauderdale, FL 33309 FDEP Certificate of Authorization No. 24 Glenn F. Myers, PE 32644			<b>FLORIDA POWER &amp; LIGHT</b>		
DATE	BY	DATE	DESCRIPTION	DATE	DESCRIPTION
DRAWN BY: H.L. 01/2022 CHECKED BY: JESSE BAY DESIGNED BY: JESSE BAY H.L. 01/2022 NO. 01/2022			SHEET TITLE: ANCHOR PILE CAP AND TIE-BACKS RECONSTRUCTION DETAILS		
PROJECT NAME: MIAMI BEACH TO ALTON & VENETIAN TO ALTON 69KV UNDERGROUND TRANSMISSION LINE			SHEET NO. W-8		

Approved  
2019.H.694.00348  
Elizabeth Jet  
4/26/2022 11:48 PM  
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USER: LDP\662

① LIMIT OF CONCRETE REMOVAL



EXISTING TIE-BACK CONNECTION REPAIR DETAIL  
(PLAN VIEW)

\* PANEL REINFORCEMENT EMBEDDED INTO THE CAP NOT SHOWN FOR CLARITY. REFER TO EXISTING SEAWALL PLANS FOR DETAILS.

CRACK REPAIR NOTE:  
CRACK REPAIR IS LIMITED TO LOCATIONS WHERE THE DISTRIBUTION BEAM WILL BE INSTALLED ONLY.

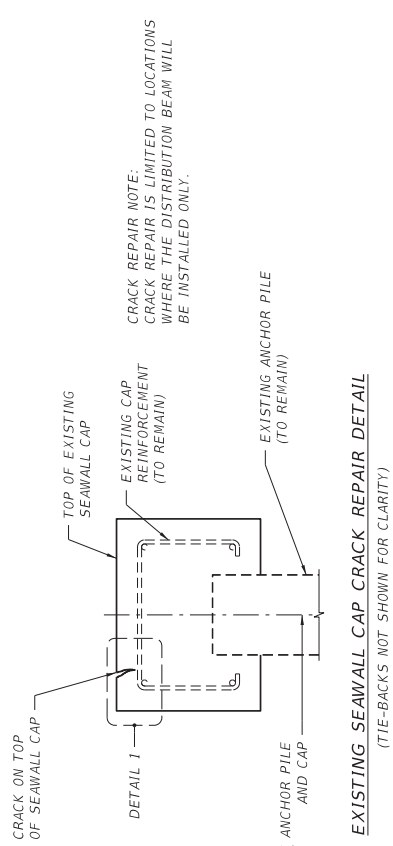


SECTION A-A  
(TIE-BACKS NOT SHOWN FOR CLARITY)

EXISTING TIE-BACK CONNECTION REPAIR AND SEAWALL CRACK REPAIR NOTES:

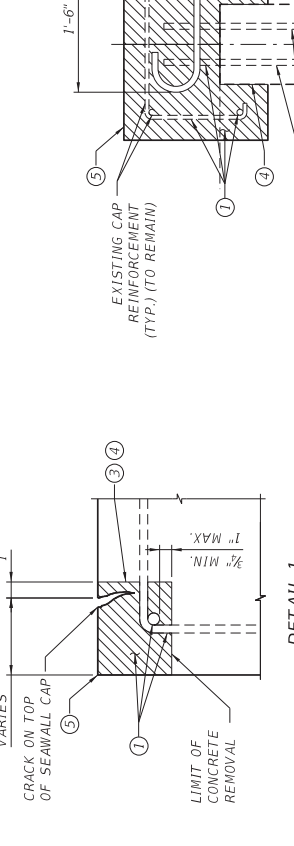
- ① REMOVE CONCRETE WITHIN THE LIMITS OF CONCRETE REMOVAL AS INDICATED. EXISTING CAP REINFORCING AND PANEL REINFORCEMENT EMBEDDED INTO THE CAP TO REMAIN. EXISTING REINFORCEMENT SHALL BE CLEANED AND STRAIGHTENED.
- ② PLACE REPLACEMENT BARS (#6) TO REPLACE BROKEN EXISTING TIE-BACK REINFORCEMENT INTO THE EXISTING CAP.
- ③ ROUGHEN EXISTING CONCRETE SURFACE TO RECEIVE NEW CONCRETE TO A FULL 1/4" AMPLITUDE.
- ④ CLEAN ALL CONTACT SURFACES BETWEEN OLD AND NEW CONCRETE FROM ALL LOOSE CONCRETE AND ANY OTHER FOREIGN MATERIALS BEFORE PLACING NEW CONCRETE.
- ⑤ CAST CONCRETE TO RESTORE ORIGINAL SEAWALL CAP SECTION AS SHOWN.

CRACK ON TOP OF SEAWALL CAP



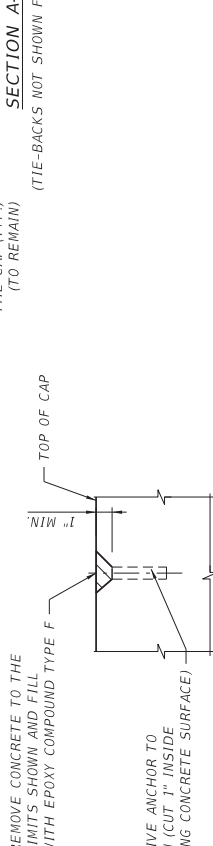
DETAIL 1  
(TIE-BACKS NOT SHOWN FOR CLARITY)

VARIES



DETAIL 1

REMOVE CONCRETE TO THE LIMITS SHOWN AND FILL WITH EPOXY COMPOUND TYPE F



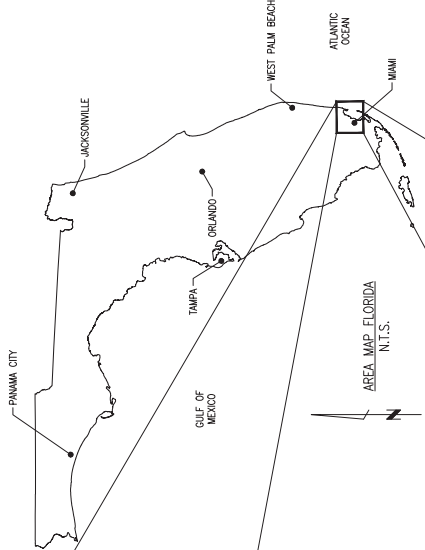
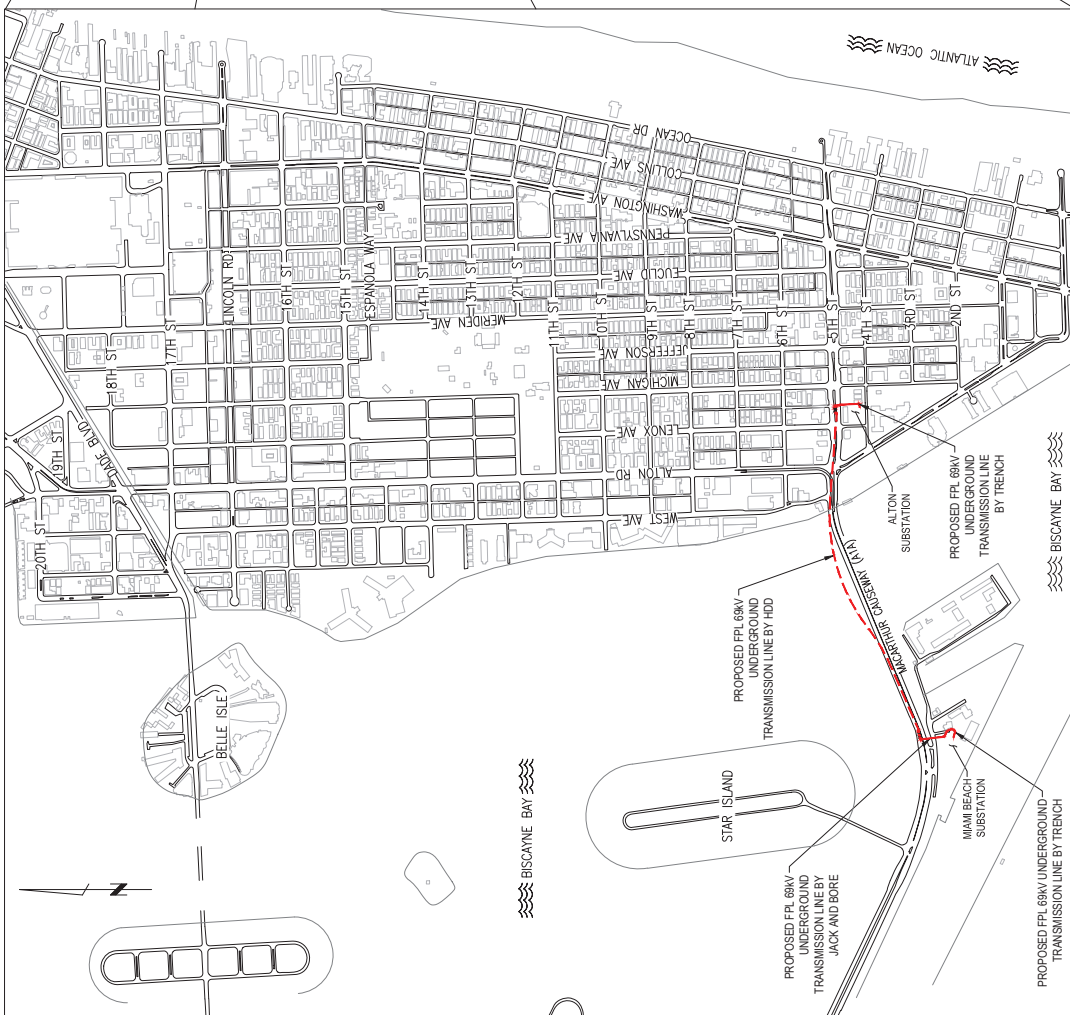
EXPOSED ANCHOR REMOVAL DETAIL


DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION


**ATKINS**  
3230 W. Commercial Blvd., Ste. 600, Ft. Lauderdale, FL 33309  
FBPE Certificate of Authorization No. 24  
Glenn F. Myers, PE 32644

FLORIDA POWER & LIGHT  
PROJECT NAME: MIAMI BEACH TO ALTON & VENETIAN TO ALTON 69KV UNDERGROUND TRANSMISSION LINE  
SHEET NO. W-9  
DATE: 5/17/2022  
USER: LDFE662  
DRAWN BY: HL 01/2022  
CHECKED BY: DESIGNED BY: HL 01/2022  
CHECKED BY: KD 01/2022

# FLORIDA POWER AND LIGHT MIAMI BEACH TO ALTON 69kV UNDERGROUND TRANSMISSION LINES




  
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**POWER ENGINEERS**

THE BUSINESS AND RESUME YOU USE CALL  
 FLORIDA SUNSHINE 811  
 TOLL FREE  
 811 or 1-800-432-4770

JOB #	DRAWING #	SHEET NO. OF	JOB NO.	DATE	SCALE	N.T.S.	DATE			
149307	CO-1	1	1	9/28/2022	1:1		01-18-2019			
MIAMI BEACH TO ALTON							DR	BWF	ER	DEJ
69kV UNDERGROUND TRANSMISSION LINE							CHA	TBB	CCR	APPROVED
ER NO.	DATE	BY	CHK	COB	APP.	REV	NO.	DATE	REVISION	

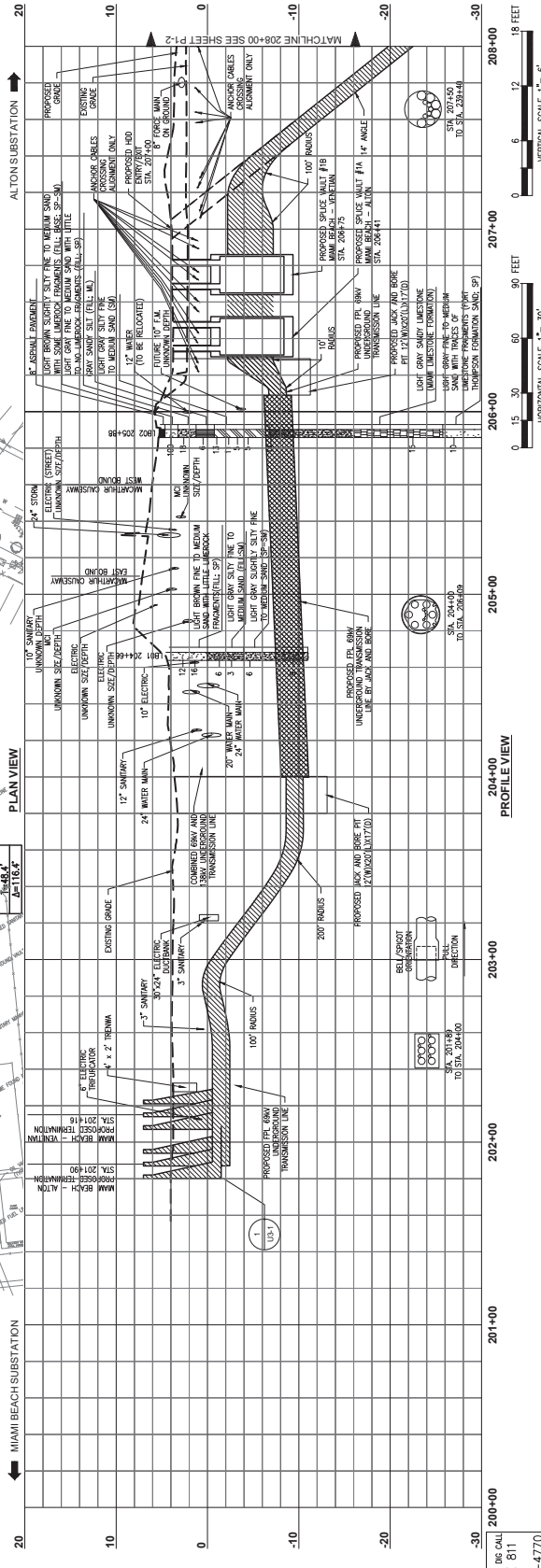
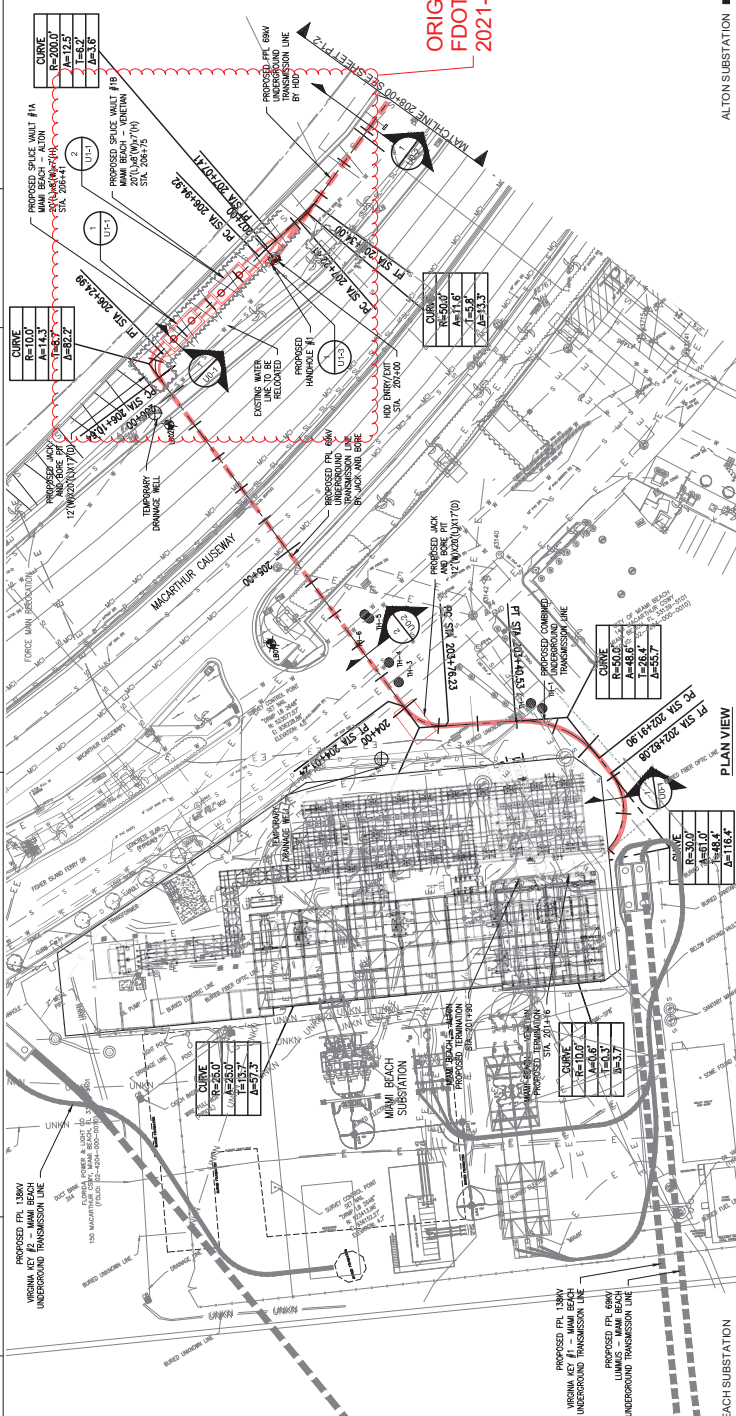
FLORIDA POWER & LIGHT  
 PROJECT ENGINEER: ROBERTO CRUZ  
 FLORIDA POWER & LIGHT  
 PROJECT NUMBER: T17066  
 POWER ENGINEERS  
 PROJECT ENGINEER: DENNIS JOHNSON  
 POWER ENGINEERS  
 PROJECT NUMBER: 149307



REV	NO	DATE	BY	CHK	APP	REVISION
1	05-27-22		ISSUED FOR CONSTRUCTION			
2	06-20-20		ISSUED FOR BID			

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 811 or 1-800-432-4770

ORIGINALLY  
 FDOT PERMIT #  
 2021-H-691-00348



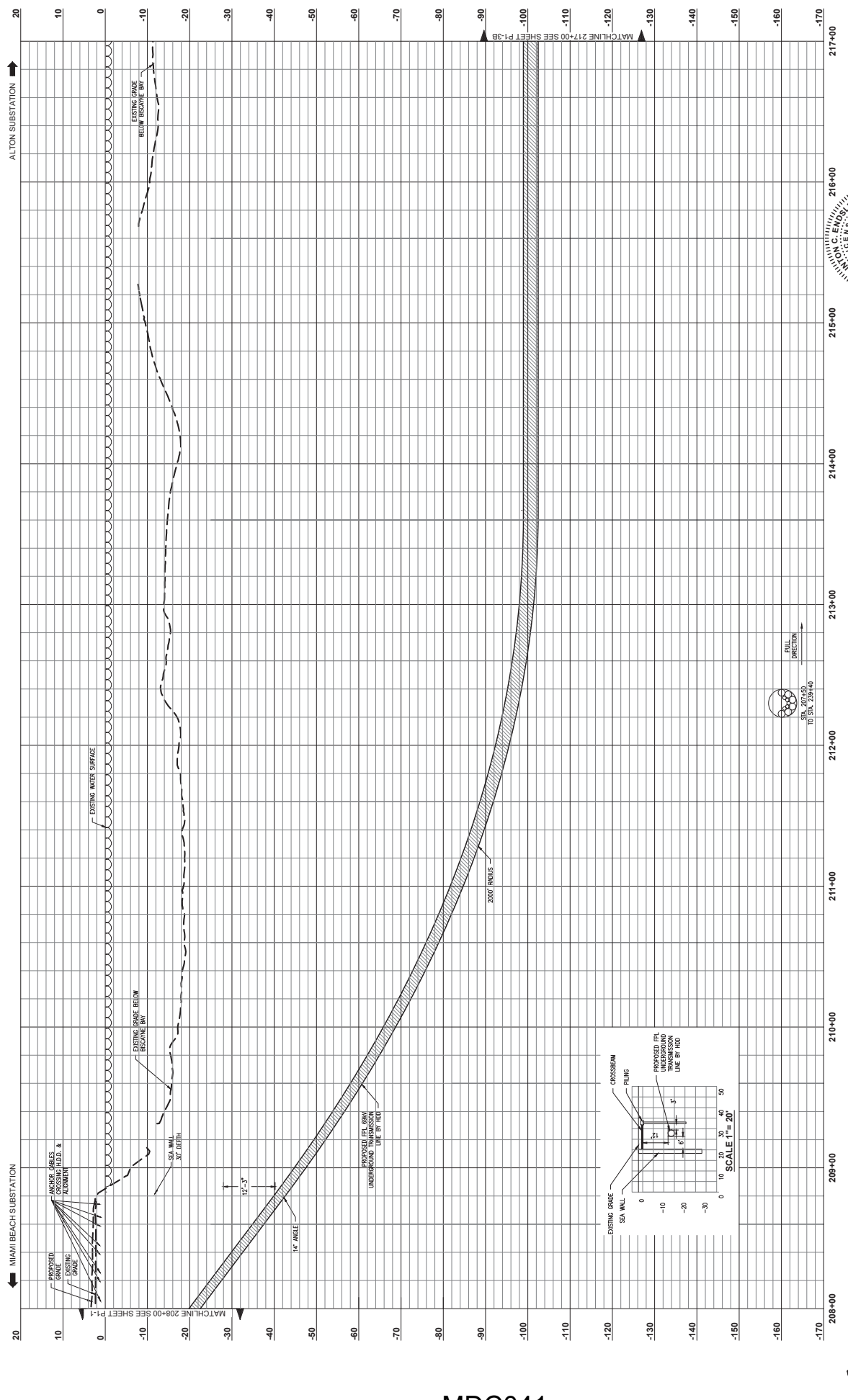
- NOTES:**
- THE UTILITIES SHOWN HEREON ARE BASED ON RECORD DOCUMENTS. OTHER UTILITIES MAY BE ENCOUNTERED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG, 811 OR 1-800-432-4770.
  - ALL VERTICAL BIDS ARE 400' UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE PROTECTION OF ALL UTILITIES. CONTRACTOR TO REPAIR ANY DAMAGE DONE TO THE SEWALL DURING CONSTRUCTION.



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 (305) 551-1100  
 www.powerengineers.com

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 2. ALL VERTICAL DIMS ARE 400' UNLESS OTHERWISE NOTED.

NOTES:  
 1. THE UTILITIES SHOWN HEREON ARE BASED ON RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST AT ANY LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG, 811 OR 1-800-432-4770.  
 2. ALL VERTICAL DIMS ARE 400' UNLESS OTHERWISE NOTED.

HORIZONTAL SCALE 1" = 30'  
 VERTICAL SCALE 1" = 10'  
 PROFILE VIEW

DATE 07-13-2018 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

DATE 07-13-2018 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

DATE 07-13-2018 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

DATE 07-13-2018 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

DATE 07-13-2018 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

DRAWING # P1-2B  
 SHEET 2 OF 5  
 PROFILE VIEW  
 STA. 208+00 TO 217+00

MIAMI BEACH TO ALTON  
 69kV UNDERGROUND TRANSMISSION LINE  
 JOB # 149307

PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 23788  
 CIVIL ENGINEER

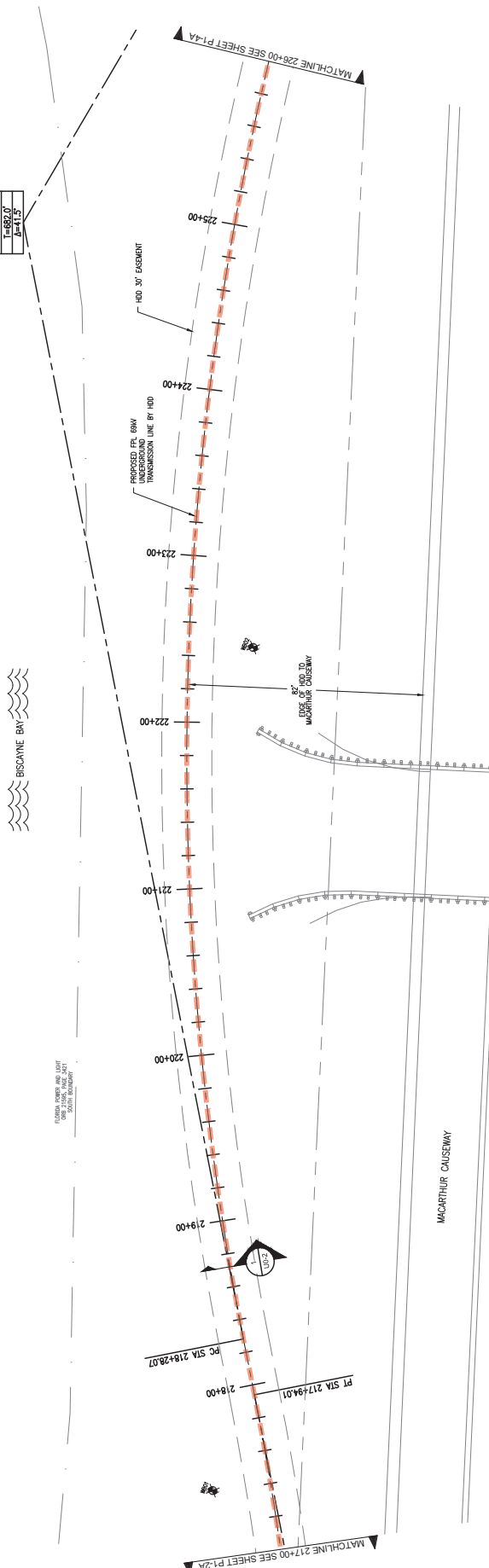
DATE 07-13-2018 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

DATE 07-13-2018 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

DATE 07-13-2018 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

DATE 07-13-2018 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

CURVE
R=1860.0'
A=1383.9'
Δ=11.5°
Δ/2=5.75°



PLAN VIEW

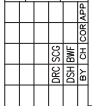


Clinton C. Ensbley  
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JOB # 149307 DRAWING # P1-3A  
 SHEET 3 OF 5  
 PLAN VIEW  
 STA. 217+00 TO 226+00

MIAMI BEACH TO ALTON  
 69kV UNDERGROUND TRANSMISSION LINE

DATE	07-13-2018	SCALE	AS SHOWN
DR	DSH	ER	DEJ
CH	BWF	GOR	
APPROVED			

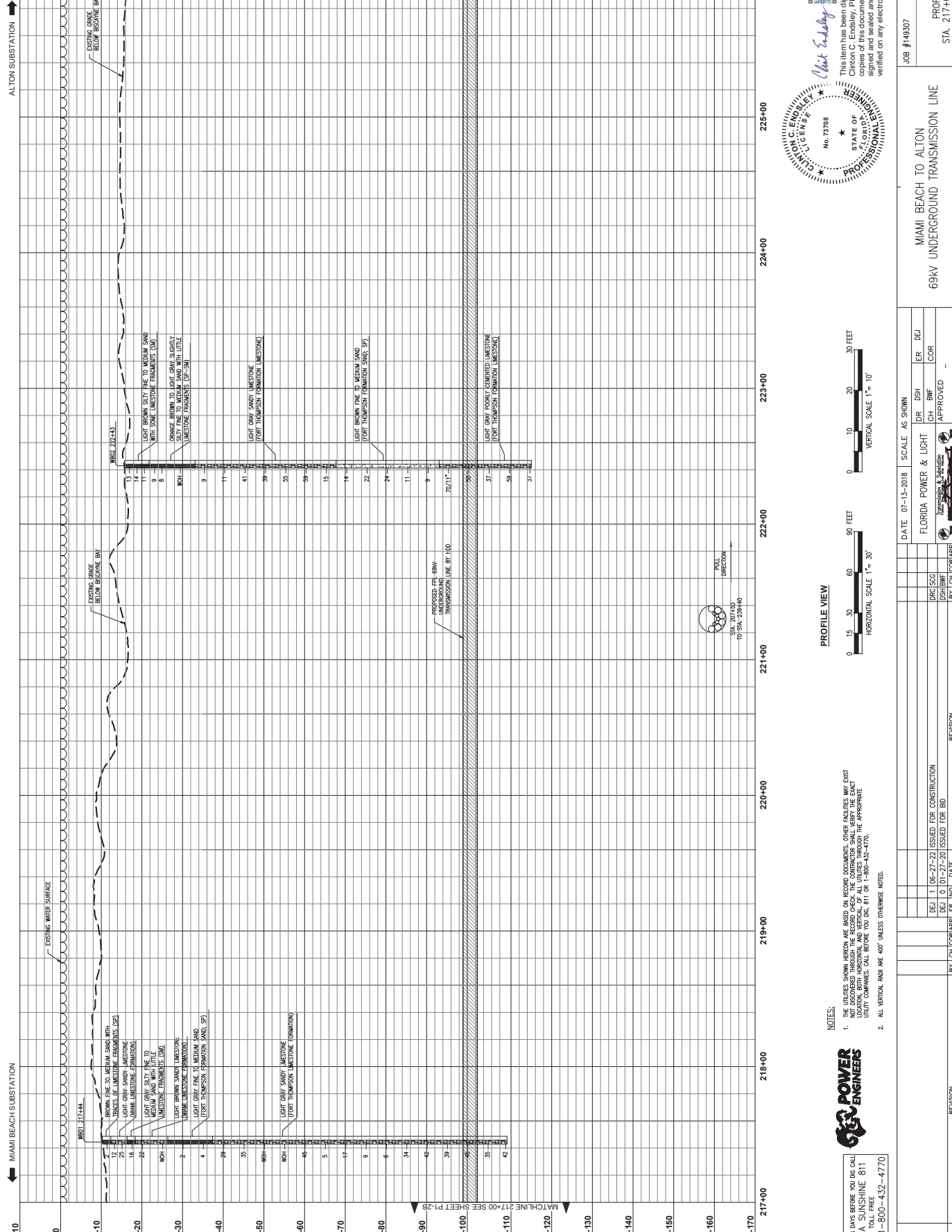


NO.	DATE	BY	CHK	APP	REV	DESCRIPTION
1	08-27-22	DEJ				ISSUED FOR CONSTRUCTION
2	08-20-20	DEJ				ISSUED FOR BID

- NOTES:
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  - ALL VERTICAL DIMS ARE 400' UNLESS OTHERWISE NOTED.



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 TOLL FREE  
 811 or 1-800-432-4770



THE BUSINESS DAYS BEFORE YOU USE CALL  
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 TOLL FREE  
 811 or 1-800-432-4770

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2. ALL VERTICAL DIMS ARE 40' UNLESS OTHERWISE NOTED.



DATE 07-13-2018 SCALE AS SHOWN  
**FLORIDA POWER & LIGHT**  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED  
 BY CH COR APP

REVISION  
 NO. DATE  
 1 05-27-22 ISSUED FOR CONSTRUCTION  
 2 07-13-2018 ISSUED FOR BID

REVISION  
 NO. DATE  
 1 05-27-22 ISSUED FOR CONSTRUCTION  
 2 07-13-2018 ISSUED FOR BID

REVISION  
 NO. DATE  
 1 05-27-22 ISSUED FOR CONSTRUCTION  
 2 07-13-2018 ISSUED FOR BID

REVISION  
 NO. DATE  
 1 05-27-22 ISSUED FOR CONSTRUCTION  
 2 07-13-2018 ISSUED FOR BID

REVISION  
 NO. DATE  
 1 05-27-22 ISSUED FOR CONSTRUCTION  
 2 07-13-2018 ISSUED FOR BID

REVISION  
 NO. DATE  
 1 05-27-22 ISSUED FOR CONSTRUCTION  
 2 07-13-2018 ISSUED FOR BID

JOB #149307 DRAWING # P1-3B  
 SHEET 3 OF 5  
 PROFILE VIEW  
 STA. 217+00 TO 226+00

MIAMI BEACH TO ALTON  
 69kV UNDERGROUND TRANSMISSION LINE

PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 73708

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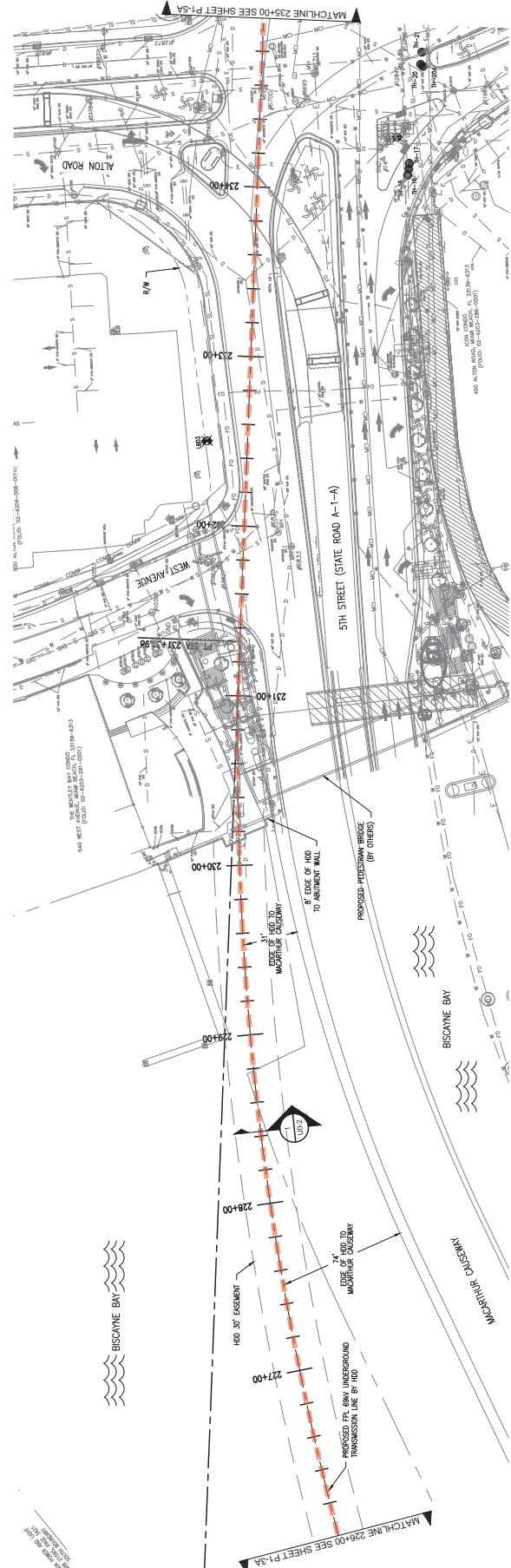
PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 73708

PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 73708

PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 73708

PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 73708

PROFESSIONAL ENGINEER  
 STATE OF FLORIDA  
 No. 73708



PLAN VIEW

**NOTES:**

1. THE UTILITIES SHOWN HEREIN ARE BASED ON RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST AT THIS LOCATION. BOTH HORIZONTAL AND VERTICAL OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG, 811 OR 1-800-432-4770.
2. ALL VERTICAL DATA ARE 40' UNLESS OTHERWISE NOTED.



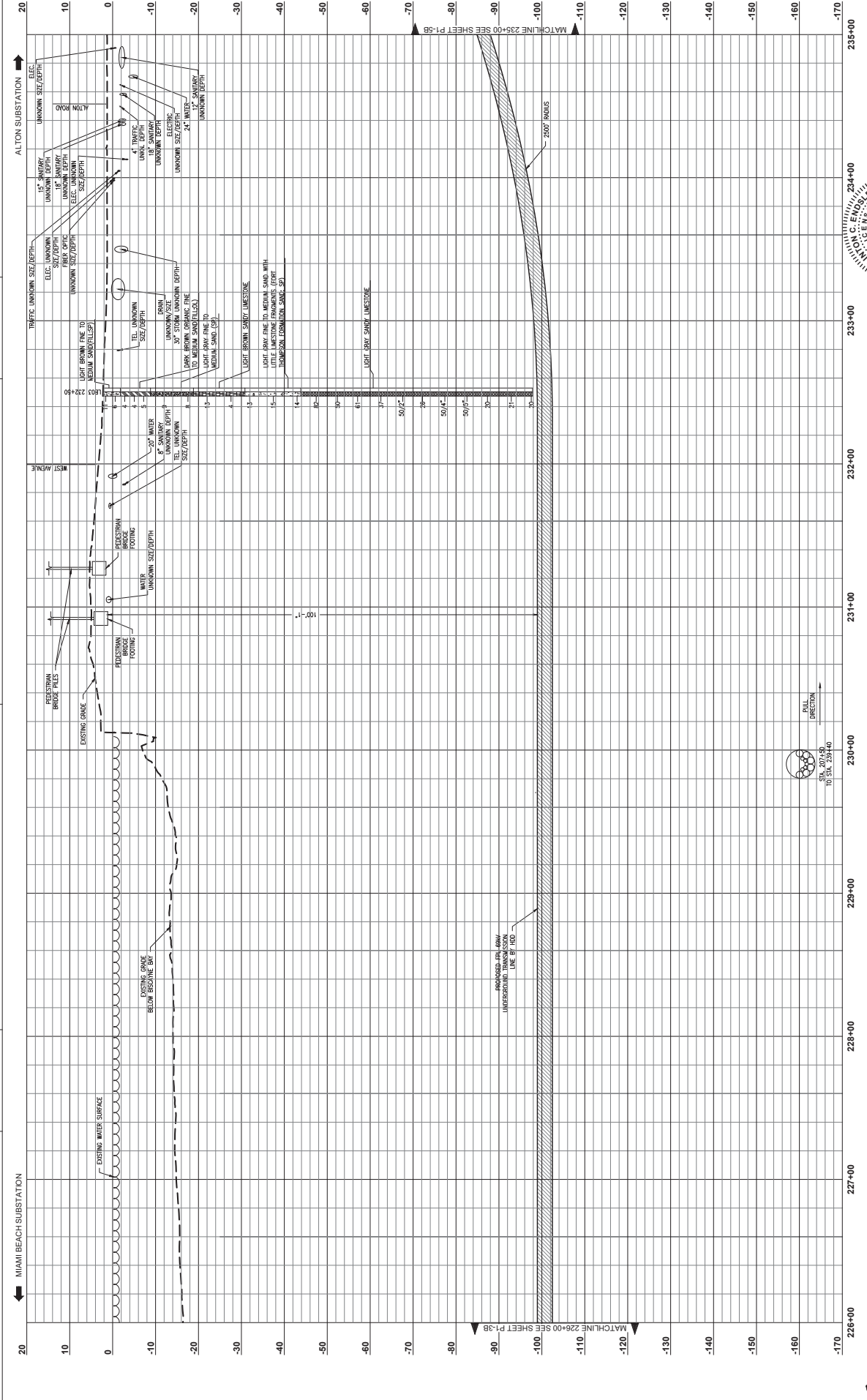
FOR TWO BUSINESS DAYS BEFORE YOU DIG CALL  
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 TOLL FREE  
 811 or 1-800-432-4770



*Clinton C. Endrey*  
 Digitally signed by Clinton C. Endrey, PE  
 DN: cn=Clinton C. Endrey, o=POWER ENGINEERS, ou=POWER ENGINEERS, email=ccendrey@powereng.com  
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JOB # 149307		DRAWING # P1-4A	
SHEET 14 OF 15		SHEET NO. 5	
PLAN VIEW		ELECTRICAL	
STA. 226+00 TO 235+00		1	
MIAMI BEACH TO ALTON 69kV UNDERGROUND TRANSMISSION LINE			
DATE	07-13-2018	SCALE	AS SHOWN
DR	DSH	ER	DEJ
CH	BNF	GOR	
APPROVED			
BY	CH	GOR	APP
REVISION			
NO.	DATE	BY	DESCRIPTION
1	05-27-22	DEJ	ISSUED FOR CONSTRUCTION
2	08-11-22	DEJ	ISSUED FOR BID



811 or 1-800-432-4770  
 TOLL FREE  
 FLORIDA SUNSHINE 811  
 CALL BEFORE YOU DIG

TWO BUSINESS DAYS BEFORE YOU DIG CALL  
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 811 or 1-800-432-4770

**6060 POWER ENGINEERS**

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 2. ALL VERTICAL DIMS ARE 400' UNLESS OTHERWISE NOTED.

SCALE AS SHOWN  
 DATE 07-13-2018  
 HORIZONTAL SCALE 1" = 30'  
 VERTICAL SCALE 1" = 10'

STATE OF FLORIDA  
 PROFESSIONAL ENGINEER  
 No. 73708  
 C. ENGLISH

JOB #149307 DRAWING # P1-4B  
 SHEET # 4 OF 5  
 PROFILE VIEW  
 STA. 226+00 TO 235+00  
 69kV UNDERGROUND TRANSMISSION LINE  
 MIAMI BEACH TO ALTON

ER NO	DATE	REVISION

BY	CHK	APP	DATE	REVISION

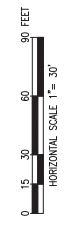

DATE 07-13-2018  
 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR DSH ER DEJ  
 CH BWF COR  
 APPROVED

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 FLORIDA SUNSHINE 811  
 CALL BEFORE YOU DIG



PLAN VIEW



**NOTES:**  
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 2. ALL VERTICAL DIMS ARE 40' UNLESS OTHERWISE NOTED.



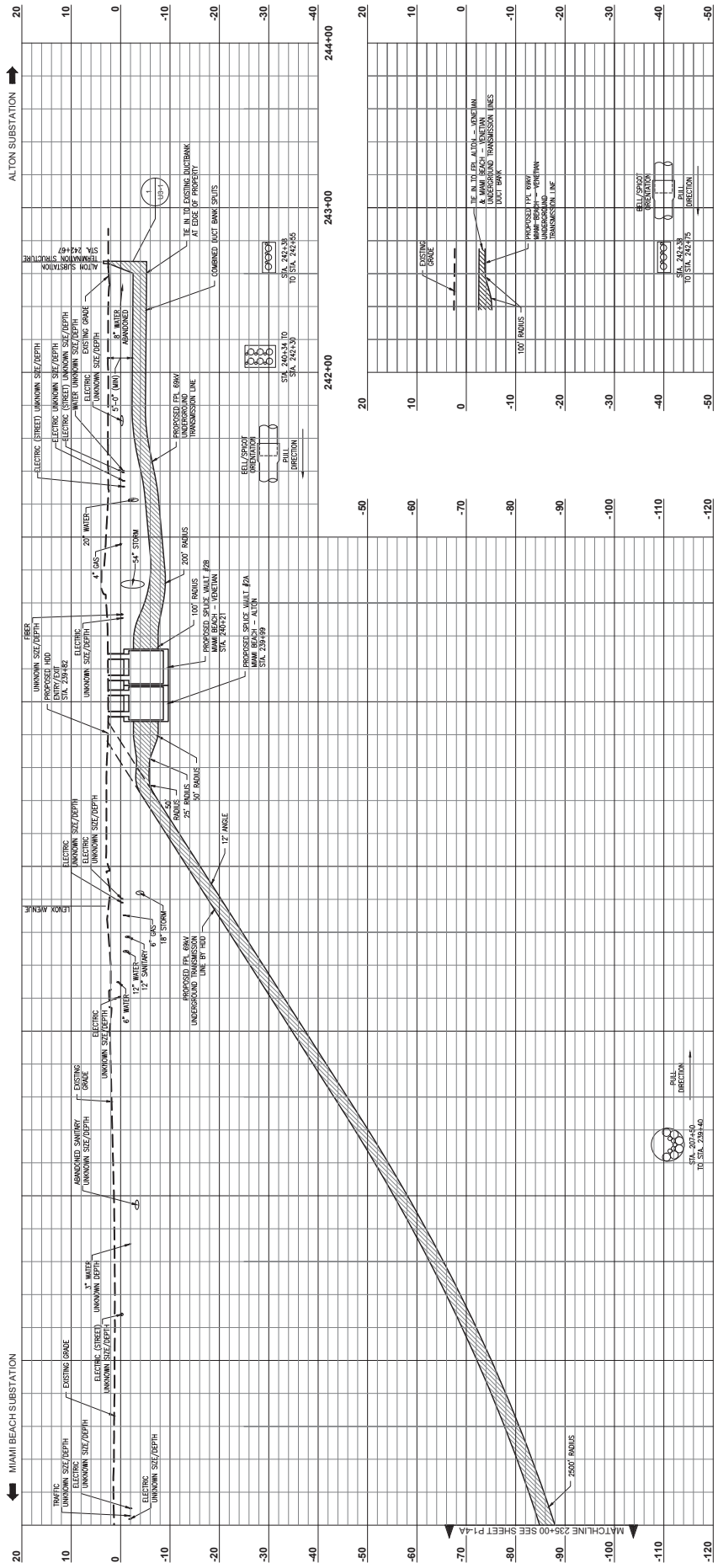
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ORIGINALLY  
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 2021-H-691-00268

DATE 07-13-2018		SCALE AS SHOWN	JOB #149307		DRAWING # PT-5A
FLORIDA POWER & LIGHT		DR DSH	ER DEJ	SHEET 9 OF 9	
BY CH COR APP		CH BWF	COR	PLAN VIEW Elizabeth	
BY CH COR APP		APPROVED	STA. 235+00 TO 243+67/2021		
REVISION		MIAMI BEACH TO ALTON			
REVISION		69kV UNDERGROUND TRANSMISSION LINE			



PROFILE VIEW  
ALTON SUBSTATION BYPASS

DATE: 07-13-2018 SCALE: AS SHOWN

DR: DSH ER: DEJ

CH: BWF COR

BY: CH COR APP

DATE: 07-13-2018 SCALE: AS SHOWN

DR: DSH ER: DEJ

CH: BWF COR

BY: CH COR APP

NOTES:

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- ALL VERTICAL DIMS ARE 400' UNLESS OTHERWISE NOTED.

Two business days before you dig call  
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TOLL FREE  
811 or 1-800-432-4770



MIAMI BEACH TO ALTON  
69kV UNDERGROUND TRANSMISSION LINE

JOB #149307 DRAWING # P1-5B  
SHEET 1 OF 5  
PROFILE VIEW

DATE: 07-13-2018 SCALE: AS SHOWN  
DR: DSH ER: DEJ  
CH: BWF COR  
BY: CH COR APP

DATE: 07-13-2018 SCALE: AS SHOWN  
DR: DSH ER: DEJ  
CH: BWF COR  
BY: CH COR APP

DATE: 07-13-2018 SCALE: AS SHOWN  
DR: DSH ER: DEJ  
CH: BWF COR  
BY: CH COR APP

REV	NO	DATE	BY	CHK	APP	REVISION

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Clint Embury  
Professional Engineer  
No. 73708

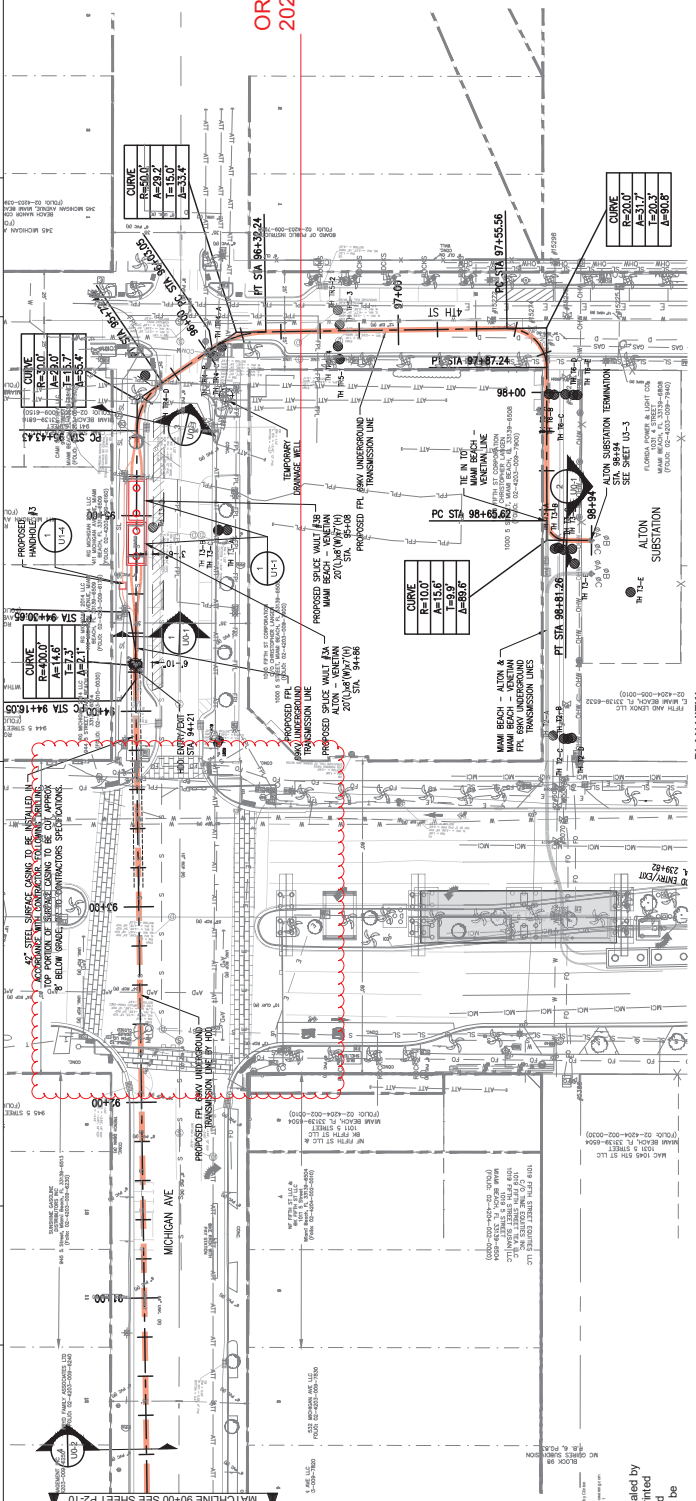
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DR: DSH ER: DEJ  
CH: BWF COR  
BY: CH COR APP

DATE: 07-13-2018 SCALE: AS SHOWN  
DR: DSH ER: DEJ  
CH: BWF COR  
BY: CH COR APP

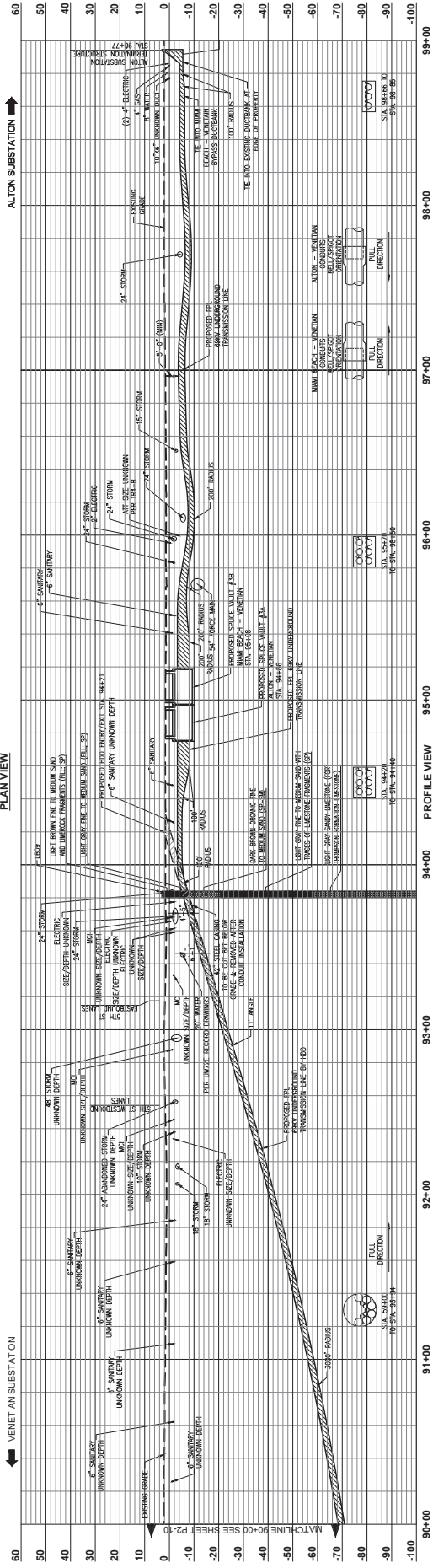
DATE: 07-13-2018 SCALE: AS SHOWN  
DR: DSH ER: DEJ  
CH: BWF COR  
BY: CH COR APP

DATE: 07-13-2018 SCALE: AS SHOWN  
DR: DSH ER: DEJ  
CH: BWF COR  
BY: CH COR APP

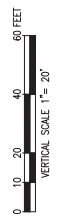
ORIGINALLY FDOT PERMIT # 2021-H-691-00269 - Approved



PLAN VIEW



PROFILE VIEW



NOTES:  
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 2. ALL VERTICAL DIMENSIONS ARE 400' UNLESS OTHERWISE NOTED.



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 TOLL FREE  
 811 OR 1-800-432-4770



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MDC048

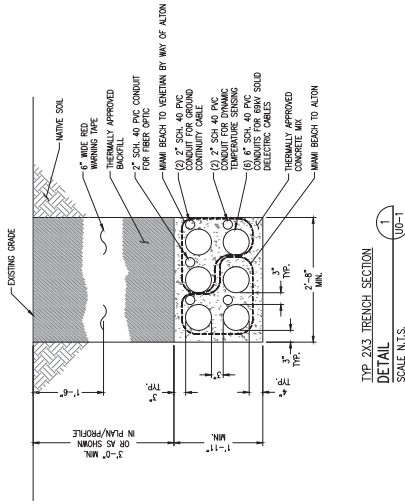
ER	NO.	DATE	BY	CHK	COOR	APP	REVISION
	1		DR	CH	TRF		ISSUED FOR CONSTRUCTION - NO CHANGE
	2	05-23-22	DR	TRF			ISSUED FOR CONSTRUCTION - PHASE 1
	3	05-23-22	DR	TRF			ISSUED FOR CONSTRUCTION - PHASE 1
	4	09-10-21	DR	TRF			ISSUED FOR CONSTRUCTION
	5	10-21-21	DR	TRF			ISSUED FOR BID

VENETIAN TO ALTON  
 69kV UNDERGROUND TRANSMISSION LINE

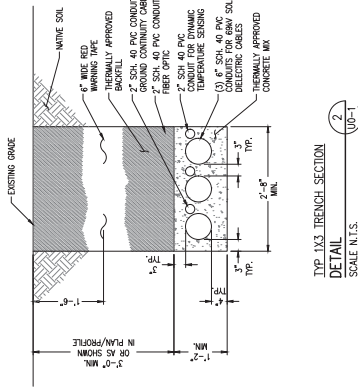
DATE 01-18-2019 SCALE AS SHOWN  
 FLORIDA POWER & LIGHT  
 DR BWF ER DEJ  
 CH TRF  
 APPROVED

JOB #149370 DRAWING # P2-11  
 SHEET 11 OF 11  
 PLAN & PROFILE VIEW  
 STA. 90+00 TO 98+76/12021 4

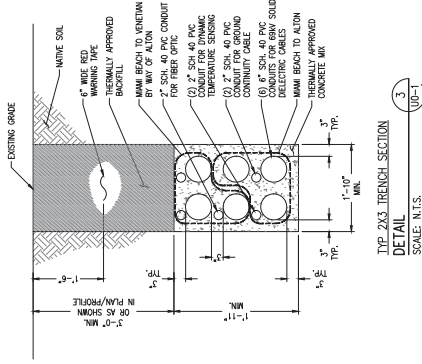




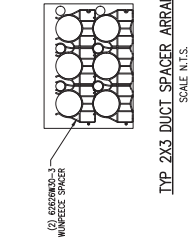
TYP. 2X3 TRENCH SECTION  
DETAIL  
SCALE N.T.S. (UP-1)



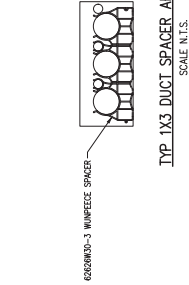
TYP. 1X3 TRENCH SECTION  
DETAIL  
SCALE N.T.S. (UP-1)



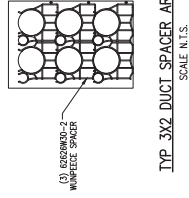
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DETAIL  
SCALE N.T.S. (UP-1)



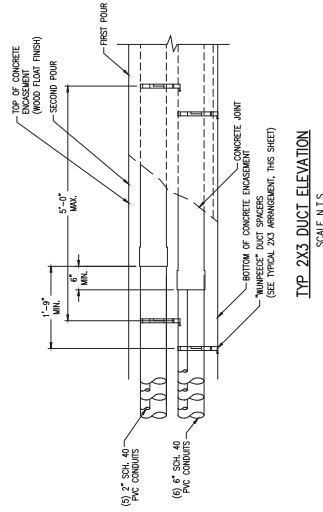
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SCALE N.T.S.



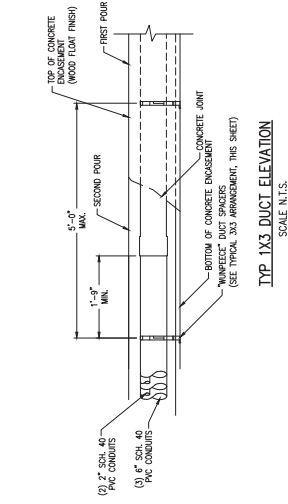
TYP. 1X3 DUCT SPACER ARRANGEMENT  
SCALE N.T.S.



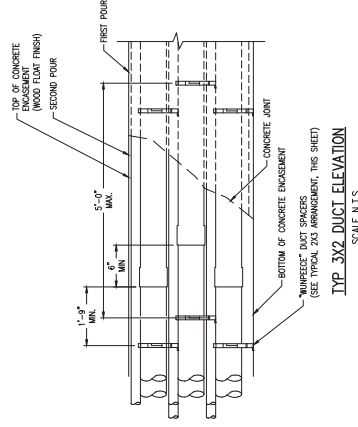
TYP. 3X2 DUCT SPACER ARRANGEMENT  
SCALE N.T.S.



TYP. 2X3 DUCT ELEVATION  
SCALE N.T.S.



TYP. 1X3 DUCT ELEVATION  
SCALE N.T.S.



TYP. 3X2 DUCT ELEVATION  
SCALE N.T.S.

NOTES:

1. SPACER CONDUIT BELLED ENDS BY A MIN OF 6".
2. CEMENT ALL JOINTS IN ACCORDANCE WITH CONDUIT MANUFACTURER'S SPECIFICATIONS.
3. AVOID STANDING ON CONDUITS DURING INSTALLATION.
4. BELLED ENDS SHALL BE INSTALLED ALL IN THE SAME DIRECTION BETWEEN WELLS.
5. FERROUS MATERIAL SHALL NOT BE USED UNLESS APPROVED BY OWNER OR ENGINEER.
6. ALL DUCT SPACERS ARE UNDERGROUND DEVICES "WUMPEEZE" SPACERS, OR APPROVED EQUIVALENT.
7. CONTRACTOR TO INSTALL 4" WIRE RED WARNING TAPE 1'-6" BELOW THE EXISTING GRADE.
8. DUCT BANK ASSEMBLY SHALL BE SECURED TO PREVENT FLOATING DURING CONCRETE PLACEMENT. FERROUS MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER OR ENGINEER.
9. SPACER DUCT SHALL BE STUBBED AND CAPPED 2'-0" FROM END OF DUCT BANK IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
10. DUCT BANK CONTRACTORS TO PREPARE BOTTOM OF TRENCH IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

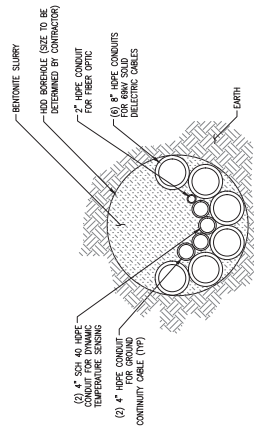


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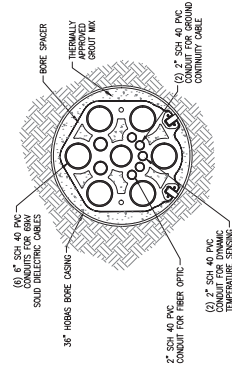


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TOLL FREE  
811 or 1-800-432-4770

JOB # 149307		DRAWING # UD-1	
SHEET 01 OF 02		NO. 9/28/2022	
TRENCH DETAILS			
MIAMI BEACH TO ALTON			
69kW UNDERGROUND TRANSMISSION LINE			
DATE	01-18-2019	SCALE	AS SHOWN
DR	BWF	ER	DEJ
CH	TBB	GOR	
APPROVED			
DESIGN	BY	DATE	REVISION
BY	CH	08/27/22	ISSUED FOR CONSTRUCTION
BY	CH	08/20/20	ISSUED FOR BID



TOP-HDD CROSS SECTION  
DETAIL  
SCALE N.T.S.  
1  
UD-2



TOP JACK AND BORE CROSS SECTION  
DETAIL  
SCALE N.T.S.  
2  
UD-2



Digitally signed by Clinton Endsley  
DN: cn=Clinton C. Endsley, o=Florida Power & Light  
Engineering, email=ccendsley@fpl.com, c=US  
Date: 2022.11.15 15:25:02-0500

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MIAMI BEACH TO ALTON  
69kV UNDERGROUND TRANSMISSION LINE

DATE	01-18-2019	SCALE	AS SHOWN	DR	BWF	ER	DEJ
				FLORIDA POWER & LIGHT	CH	TBB	GOR
							APPROVED

DATE	01-18-2019	SCALE	AS SHOWN	DR	BWF	ER	DEJ
				FLORIDA POWER & LIGHT	CH	TBB	GOR
							APPROVED

ER	NO	DATE	ISSUED FOR	BY	CHK	FOR APP
DEJ	1	08-27-22	ISSUED FOR CONSTRUCTION			
			ISSUED FOR BID			

ER	NO	DATE	REVISION



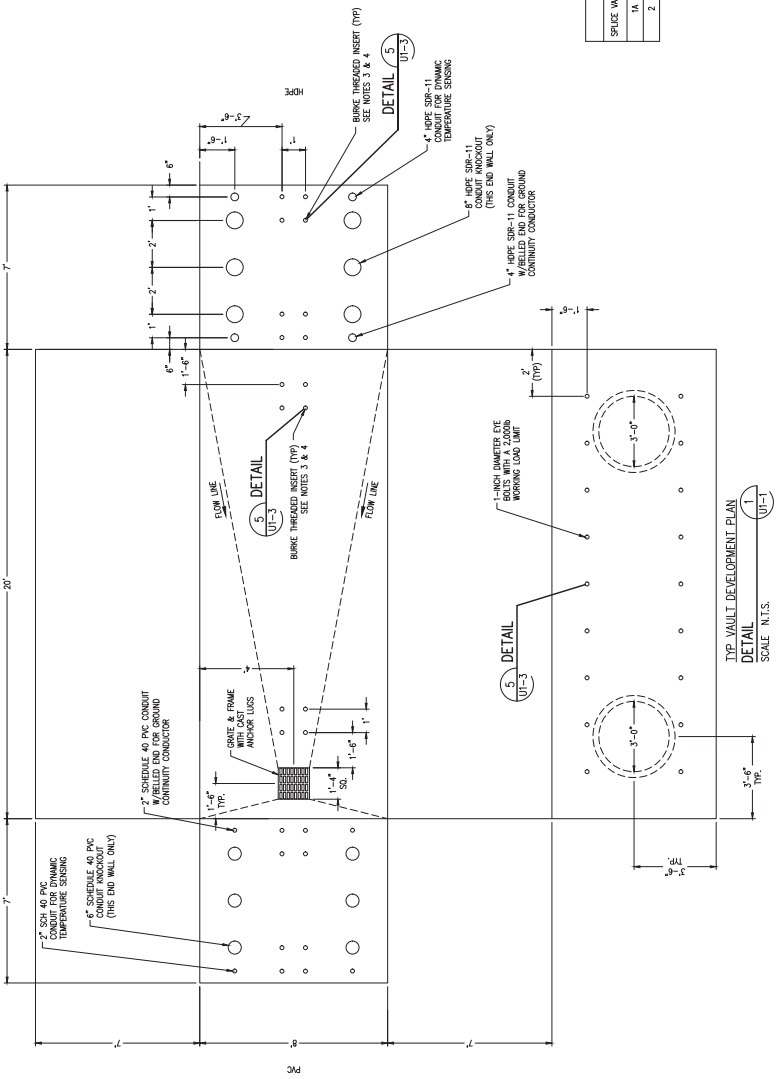
THE BUSINESS DAYS BEFORE YOU DO CALL  
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TOLL FREE  
811 or 1-800-432-4770

**NOTES:**

1. ALL CABLE HEADWIRE WITHIN THE MANHOLE SHALL BE STAINLESS STEEL GRADE 316.
2. ALL DIMENSIONS ARE INSETE DIMENSIONS.
3. PULLING HEADWIRE AREAS SHALL BE RATED FOR 40,000LB TENSION, WORKING LOAD LIMIT, WITH A 24" SF MINIMUM. PULLING HEADWIRE AREAS SHALL CONSIST OF FLOOR (4) THROUGH REINETS WITH FEMELLE THROUGH SAFE.
4. ALL CABLE MOUNTING EQUIPMENT TO BE GROUNDING BY CABLE CONTRACTOR.
5. CABLE AND ACCESSORIES CONTRACTOR TO FIELD VERIFY ACTUAL VAULT DEPTH AND IS RESPONSIBLE FOR ALL CABLE MOUNTING EQUIPMENT.
6. CABLE AND ACCESSORIES CONTRACTOR IS RESPONSIBLE FOR INTERIOR COPPER PIGTAIL CONNECTIONS TO GROUND RING.
7. CONTRACTORS ARE RESPONSIBLE FOR ALL OF THEIR OWN SAFETY & ENTRY/EXIT REQUIREMENTS WHEN WORKING IN VAULT.
8. ALL CABLES SHALL BE WIREBRED OR OTHERWISE "TIED" TO PREVENT HORIZONTAL DISPLACEMENT AND SHALL BE SECURELY MORTARED TO VAULT ROOF.
9. REINFORCING STEEL SHALL BE BENDED TO SOFT DRAWN BARE COPPER BONDING JUMPERS.
10. ALL CABLES SHALL BE WIREBRED TO PREVENT HORIZONTAL DISPLACEMENT. ALL WIREBREDING SHALL BE INSTALLED USING EPOXY RESIN SEALANTS. REBAR FROM EACH SECTION SHALL BE BENDED TOGETHER AT INSTALLATION USING EPOXY RESIN SEALANTS.
11. FINAL VAULT DIMENSIONS SHALL BE VERIFIED BY CABLE CONTRACTOR.
12. THE MANHOLE DESIGN, WHETHER CAST-IN-PLACE OR PRECAST, SHALL COMPLY AS REQUIRED WITH THE FOLLOWING:
  - a. ASTM SPECIFICATIONS
  - b. ASTM SPECIFICATIONS
  - c. ALL SPECIFICATIONS REFERENCED SHALL BE THE LATEST EDITION
13. SEE SPECIFICATION FOR MATERIAL AND FABRICATION REQUIREMENTS.
14. MANHOLE SHALL BE DESIGNED FOR AMERICAN ASSOCIATION OF HIGHWAY AND STATE TRANSPORTATION (AASHTO) TYPE III.
15. MANHOLES SHALL BE DESIGNED IN ACCORDANCE WITH ASTM A952-07 "STANDARD SPECIFICATION FOR MANHOLE STRUCTURAL DESIGN LOADS FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES" (LATEST REVISION).
16. MANHOLES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM A868-03, STANDARD SPECIFICATIONS FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES.
17. MANHOLES SHALL BE DESIGNED FOR AASHTO TRAILING CODE REQUIREMENT FOR STRUCTURAL CONCRETE AND ASHTO LOAD RESISTANCE FACTORED DESIGN "THREE DESIGN SPECIFICATIONS" (LATEST EDITION).
18. DESIGN LOADS SHALL CONSIST OF ROAD LOAD, LIVE LOAD, WIND, SURCHARGE LOAD, AND ANY OTHER LOADS WHICH MAY BE IMPOSED UPON THE STRUCTURE. WHEEL LOADING SHALL BE 16S-20.
19. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4000 PSI @ 28 DAYS. CONCRETE MIX DESIGN SHALL BE SUBMITTED 28 DAYS PRIOR TO CONSTRUCTION AND IS SUBJECT TO ACCEPTANCE BY THE DESIGNER OWNER REPRESENTATIVE.
20. CONCRETE CYLINDER SAMPLES SHALL BE COLLECTED AND TESTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
21. GROUND CONNECTIONS SHALL USE EPOTERMIC WELDS.
22. MANUFACTURER SHALL FACTOR-IN INSTALL AND SEAL BELLED ENDS IN ALL CONDUIT OPENINGS.
24. WHERE POWER CABLE CONDUITS ENTER MANHOLE, THE WALL SHALL BE BEVELED SUCH THAT WALLS CAN BE SLOPED BACK TO KEEP STAMP LOAD AWAY FROM THE GROUND.
25. REINFORCEMENT SHALL BE USED IN THE CONSTRUCTION OF THE MANHOLES SHALL CONTAIN STEEL REINFORCING BARS TO CONFORM TO ALL APPLICABLE BUILDING CODES.
  - a. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A618-GR60 OR SPECIFICATIONS.
  - b. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A618-GR60 OR SPECIFICATIONS.
  - c. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A618-GR60 OR SPECIFICATIONS.
  - d. NO MAGNETIC MATERIALS (IRON, STEEL, REBAR, ETC) SHALL INTERFERE ANY INDIVIDUAL CONDUIT FEEDTHROUGHS.
26. MANHOLE COVER AND FRAME SHALL BE SUPPLIED BY THE CIVIL CONTRACTOR.
27. MANHOLE FLOOR SHALL BE FINISHED WITH A MINIMUM SLOPE OF 1/8" PER FOOT.
  - a. SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" KEEP.
  - b. SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" KEEP.
28. MANHOLE REBAR DESIGN SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE REBAR CALCULATIONS. ADDITIONAL DESIGN DATA TO COMPLETE THESE CALCULATIONS SHALL BE PERFORMED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



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MIAMI BEACH TO ALTON - SPURVE VAULT CHART			
STATION	LENGTH (feet)	WIDTH (feet)	DEPTH (feet)
1A	208+41	20	8
2	240+21	20	8

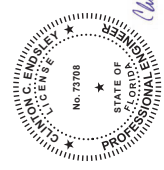


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 TOLL FREE  
 811 or 1-800-432-4770

ER	NO	DATE	REVISION	BY	CHK	COR	APP	DATE	SCALE	AS SHOWN	DR	BWF	ER	DEJ
	1	08-27-22	ISSUED FOR CONSTRUCTION						FLORIDA POWER & LIGHT					
	2	08-28-22	ISSUED FOR BID						APPROVED					

**NOTES:**

1. ALL CABLE HORIZONTE WITHIN THE MANHOLE SHALL BE STAINLESS STEEL GRADE 316.
2. ALL DIMENSIONS ARE INSE DIMENSIONS.
3. PULLING HORIZONTE AREAS SHALL BE RATED FOR 40,000LB TENSION, WORKING LOAD LIMIT, WITH A 24" SF MINIMUM. PULLING HORIZONTE AREAS SHALL CONSIST OF FLOOR (4) THROUGH HOISTS WITH FEMELLE THROUGH SAFE.
4. ALL CABLE MOUNTING EQUIPMENT TO BE GROUNDING BY CABLE CONTRACTOR.
5. CABLE AND ACCESSORIES CONTRACTOR TO FIELD VERIFY ACTUAL VAULT DEPTH AND IS RESPONSIBLE FOR ALL CABLE MOUNTING EQUIPMENT.
6. CABLE AND ACCESSORIES CONTRACTOR IS RESPONSIBLE FOR INTERIOR COPPER POTIAL CONNECTIONS TO GROUND RING.
7. CONTRACTORS ARE RESPONSIBLE FOR ALL OF THEIR OWN SAFETY & ENTRY/EXIT REQUIREMENTS WHEN WORKING IN VAULT.
8. ALL CABLES SHALL BE WIPED AS OTHERWISE NOTED TO PREVENT HORIZONTAL DISPLACEMENT AND SHALL BE SECURELY MORTARED TO VAULT ROOF.
9. REINFORCING STEEL SHALL BE BRANED TO SOFT DRAWN BARE COPPER BONDING JUMPERS.
10. ALL CABLES SHALL BE BRANED TO SOFT DRAWN BARE COPPER BONDING JUMPERS. USING THE APPROPRIATE SOLDER, POLYMER OR ELASTOMERIC SEALANTS. REBAR FROM EACH SECTION SHALL BE BRANED TOGETHER AT INSTALLATION USING EPITHEMIC CONNECTIONS.
11. FINAL VAULT DIMENSIONS SHALL BE VERIFIED BY CABLE CONTRACTOR.
12. THE MANHOLE DESIGN, WHETHER CAST-IN-PLACE OR PRECAST, SHALL COMPLY AS REQUIRED WITH THE FOLLOWING:
  - a. ASTM SPECIFICATIONS
  - b. ASTM SPECIFICATIONS
  - c. ALL SPECIFICATIONS REFERENCED SHALL BE THE LATEST EDITION
13. SEE SPECIFICATION FOR MATERIAL AND FABRICATION REQUIREMENTS.
14. MANHOLE SHALL BE DESIGNED FOR AMERICAN ASSOCIATION OF HIGHWAY AND STATE TRANSPORTATION (AASHTO) TYPE III.
15. MANHOLES SHALL BE DESIGNED IN COMPLIANCE WITH ASTM A662-07 "MINIMUM REQUIREMENTS FOR MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES" (LATEST REVISION).
16. MANHOLES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C868-03, STANDARD SPECIFICATIONS FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES.
17. MANHOLES SHALL BE DESIGNED FOR A308-08 BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE AND AASHTO LOAD RESISTANCE FACTORED DESIGN "BRIDGE DESIGN SPECIFICATIONS" (LATEST EDITION).
18. DESIGN LOADS SHALL CONSIST OF ROAD LOAD, LIVE LOAD, WIND, SURCHARGE LOAD, AND ANY OTHER LOADS WHICH MAY BE IMPOSED UPON THE STRUCTURE. WHEEL LOADING SHALL BE 16S-20.
19. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4000 PSI @ 28 DAYS. CONCRETE MIX DESIGN SHALL BE SUBMITTED 28 DAYS PRIOR TO CONSTRUCTION AND IS SUBJECT TO ACCEPTANCE BY THE DESIGNED OWNER REPRESENTATIVE.
20. CONCRETE SHALL BE COMPOSED OF TYPE I PORTLAND CEMENT AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
21. CONCRETE CYLINDER SAMPLES SHALL BE COLLECTED AND TESTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
22. GROUND CONNECTIONS SHALL USE EPITHEMIC WELDS.
23. MANUFACTURER SHALL FACTOR-INSTALL AND SEAL BELLED ENDS IN ALL CONDUIT OPENINGS.
24. WHERE POWER CABLE CONDUITS ENTER MANHOLE, THE WALL SHALL BE BEVELED SUCH THAT WALLS CAN BE SUPID BACK TO KEEP SUMP LOAD AWAY FROM THE GROUND.
25. REINFORCEMENT USED IN THE CONSTRUCTION OF THE MANHOLES SHALL CONTAIN STEEL REINFORCING BARS TO CONFORM TO ALL APPLICABLE BUILDING CODES.
  - a. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A618-06 OR SPECIFICATIONS.
  - b. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A618-06 OR SPECIFICATIONS.
  - c. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A618-06 OR SPECIFICATIONS.
  - d. NO MAGNETIC MATERIALS (IRON, STEEL, REBAR, ETC) SHALL EXPOSE ANY INDIVIDUAL CONDUIT FEATHERINGS.
26. MANHOLE COVER AND FRAME SHALL BE SUPPLIED BY THE CIVIL CONTRACTOR.
27. MANHOLE FLOOR SUMP SHALL SLOPE TOWARDS THE SUMP WITH A MINIMUM SLOPE OF 1/8" PER FOOT.
  - a. SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" KEEP.
28. MANHOLE REBAR SHALL BE BRANED TO SOFT DRAWN BARE COPPER BONDING JUMPERS. FOR THE PURPOSES OF THE DESIGN CALCULATIONS, ADDITIONAL SECTION DATA TO COMPLETE THESE CALCULATIONS SHALL BE PERFORMED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



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JOB # 149307 DRAWING # UT-2  
 SHEET 2 OF 4  
 SPURVE VAULT DETAILS  
 HDPE/HDPE VAULT 28/2022

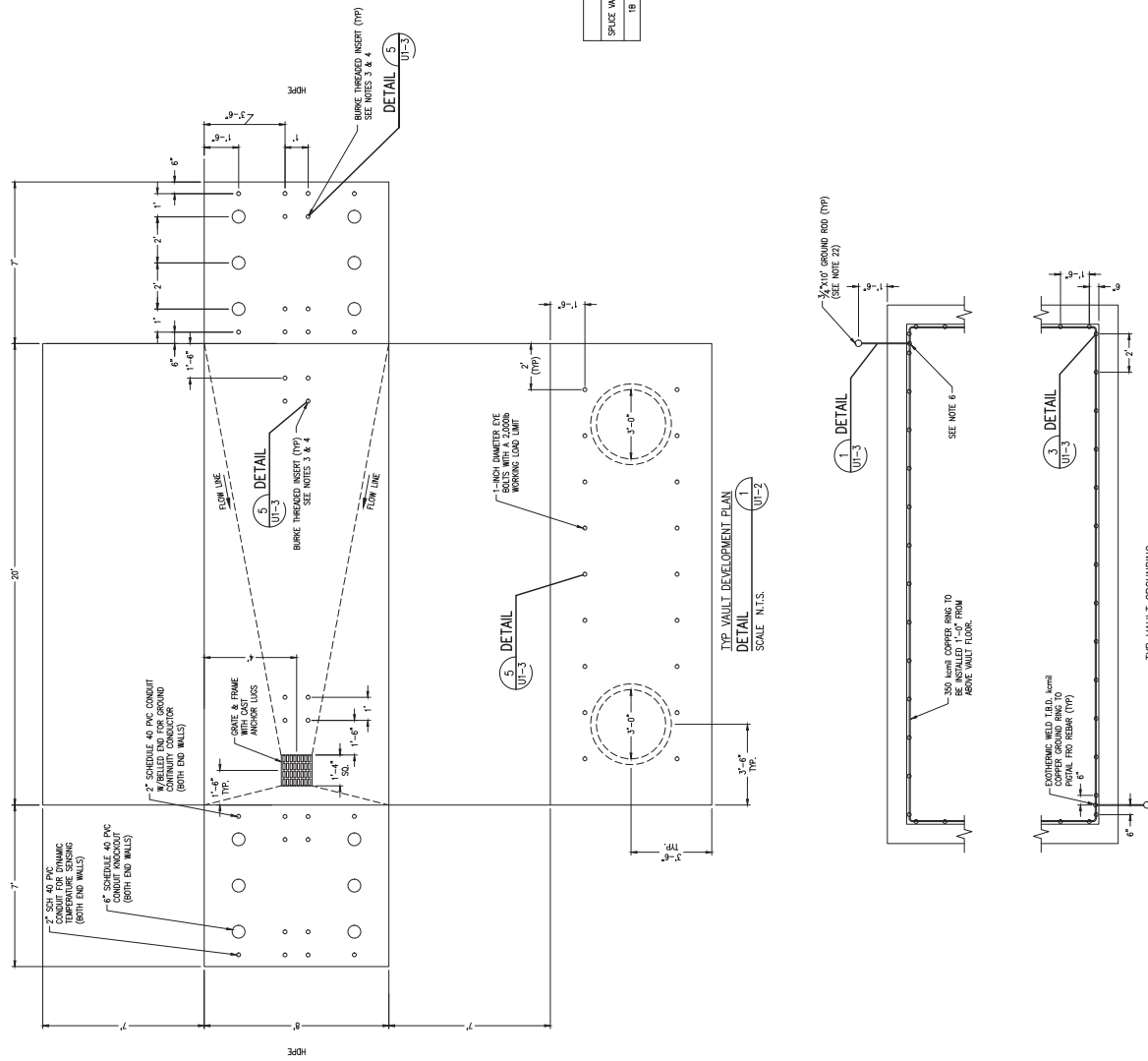
MIAMI BEACH TO ALTON  
 69kW UNDERGROUND TRANSMISSION LINE

DATE	01-18-2019	SCALE	AS SHOWN
DR	BWF	ER	DEJ
CH	TBB	GOR	
APPROVED			

REV	NO	DATE	BY	CHK	APP	REVISION
DEJ	1	06-27-22				ISSUED FOR CONSTRUCTION
DEJ	2	08-11-2022				ISSUED FOR BID



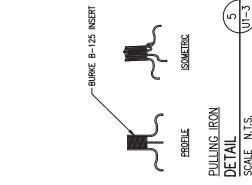
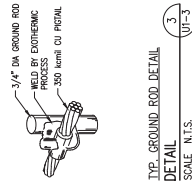
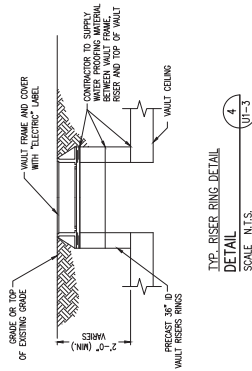
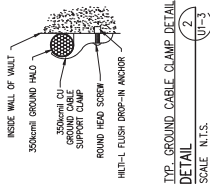
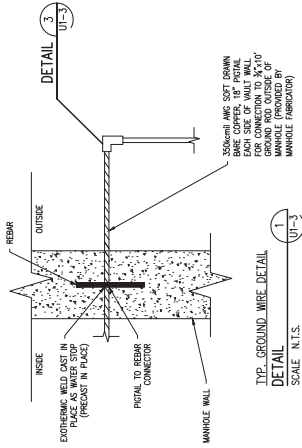
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 TOLL FREE  
 811 or 1-800-432-4770



MDC052

**MANHOLE INSTALLATION NOTES:**

1. THE 10 FEET OF POWER CABLE DUCT IMMEDIATELY OUTSIDE THE MANHOLE SHALL BE LEVEL WITH NO CORNER OR 90 DEGREE BENDS.
2. THE MANHOLE SHALL BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND BE LOCATED IN A MANHOLE THAT SHALL BE PLACED IN CLOSE PROXIMITY TO THE MANHOLE.
3. MANHOLE FRAME COVERS SHALL BE SET TO CONFORM TO THE FINISHED GRADE OR PRECAST MANHOLE FRAME SHALL BE CONSIDERED AS BEING AT FINISHED GRADE.
4. THE TOP OF MANHOLE FRAMES AND RISER OF ALL NEW MANHOLES SHALL BE TREATED WITH WATER DAMPENING PRODUCT. CONTRACTOR SHALL SUBMIT METHOD OF WATER DAMPENING TO THE OWNER FOR ACCEPTANCE.
5. PRECAST CONCRETE MANHOLES SHALL BE INSTALLED IN ACCORDANCE WITH THE PRECAST MANHOLE MANUFACTURER'S INSTRUCTIONS.
6. SHOP DRAWINGS FOR THE PRECAST OR CAST-IN-PLACE RISERS SHALL BE SUBMITTED TO THE CONTRACTOR TO THE OWNER OF RECORD FOR REVIEW AND ACCEPTANCE.
7. PRECAST MANHOLES SHALL BE DELIVERED WITH WATERPROOFING MATERIAL ON ALL SURFACES EXPOSED TO EARTH. WATERPROOFING SYSTEM SHALL BE APPLIED DURING MANUFACTURE.
8. EXISTING MANHOLE 14 INCHES BELOW THE BOTTOM OF THE PROPOSED MANHOLE SHALL BE REPAIRED OR RECONSTRUCTED WITH AN APPROPRIATE UNSATURATED MATERIAL IS ENCOUNTERED. OVER-EXCAVATE AS NECESSARY BASED ON SITE CONDITIONS TO THE SATISFACTION OF THE OWNER.
9. COMPACT THE SURFACE PER SPECIFICATION.
10. PLACE GEOTEXTILE FABRIC (MARI 160N OR ACCEPTED EQUIVALENT)
11. PLACE BACKFILL AROUND MANHOLE STRUCTURE PER SPECIFICATIONS.



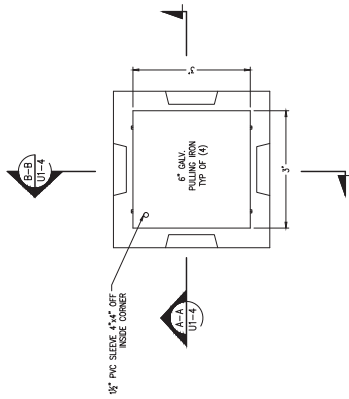
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JOB # 149307		DRAWING # UT-3	
SHEET 3 OF 4		DATE 01-18-2019	
SCALE AS SHOWN		FLORIDA POWER & LIGHT	
DR	BWF	ER	DEJ
CH	TBB	GOR	
APPROVED			
DESIGN	BY CH	DATE	REVISION
DEJ	1 08-27-22	ISSUED FOR CONSTRUCTION	
DEJ	10-08-20	ISSUED FOR BID	

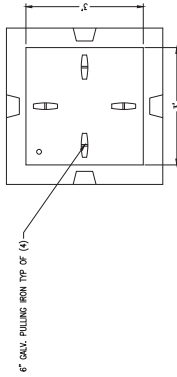
MIAMI BEACH TO ALTON  
69kV UNDERGROUND TRANSMISSION LINE



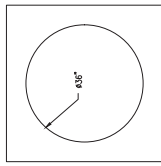
811 Know what's below. Call before you dig.



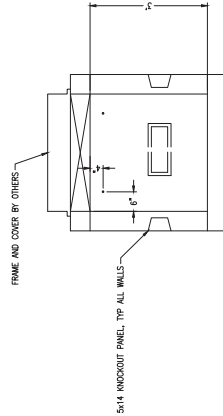
PLAN VIEW  
DETAIL  
SCALE: N.T.S.  
1  
UT-4



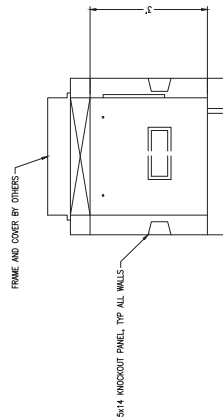
PLAN VIEW - LIFEER PULLING IRON  
DETAIL  
SCALE: N.T.S.  
2  
UT-4



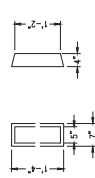
TOP SLAB- REINFORCEMENT  
DETAIL  
SCALE: N.T.S.  
3  
UT-4



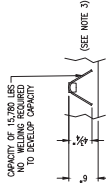
SECTION  
SCALE: N.T.S.  
A-A  
UT-4



SECTION  
SCALE: N.T.S.  
B-B  
UT-4



KNOCKOUT DETAIL  
DETAIL  
SCALE: N.T.S.  
4  
UT-4



GALVANIZED PULLING IRON DETAIL  
DANTON SUPERDOR-6AUGZT  
DETAIL  
SCALE: N.T.S.  
5  
UT-4



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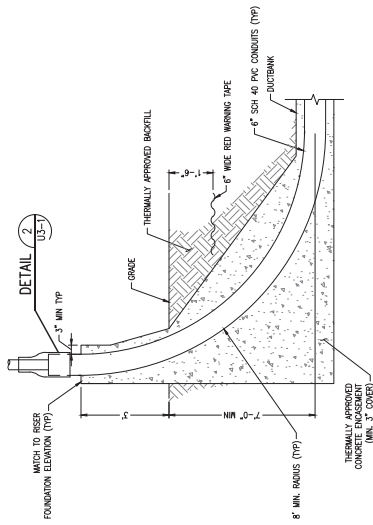
- NOTES:
- 4000 PSI AIR ENTRAINED CONCRETE.
  - REINFORCEMENT STEEL PER ASTM A-615, GRADE 60.
  - PULLING IRONS ALSO USED FOR PRECAST INSTALLATION.
  - WEIGHT OF UNIT = 4,300 LBS.

Miami Beach to Alton  
69kV UNDERGROUND TRANSMISSION LINE

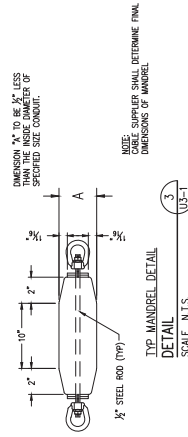
JOB # 149307 DRAWING # UT-4  
SHEET 10 OF 14  
HANDHOLE DETAILS  
9/28/2021

DATE	01-18-2019	SCALE	AS SHOWN	DR	BWF	ER	DEJ
				CH	TBB	GOR	
				APPROVED			

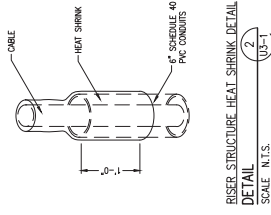
REV	NO.	DATE	BY	CHK	APP	REVISION
DEJ	1	06-27-22				ISSUED FOR CONSTRUCTION
						BY CH FOR APP



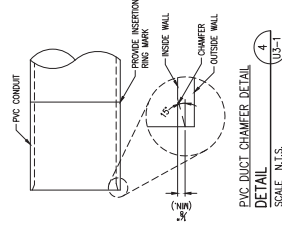
TIP PVC DUCT SWEEP AT RISERS  
DETAIL  
SCALE N.T.S. U3-1



TIP MANDREL DETAIL  
DETAIL  
SCALE N.T.S. U3-1



RISER STRUCTURE HEAT SHRINK DETAIL  
DETAIL  
SCALE N.T.S. U3-1



PVC DUCT CHAMFER DETAIL  
DETAIL  
SCALE N.T.S. U3-1

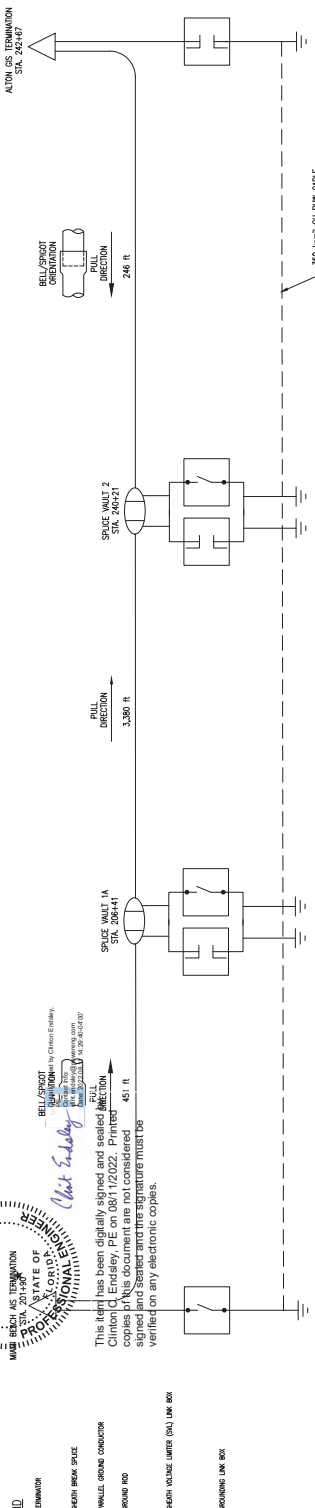


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JOB # 149307		DRAWING # U3-1	
SHEET 01 OF 03		NO. 1	
MISCELLANEOUS DETAILS		DATE 08/26/2022	
MIAMI BEACH TO ALTON 69kV UNDERGROUND TRANSMISSION LINE			
DATE	04-09-2019	SCALE	AS SHOWN
DR	BWF	ER	DEJ
CH	TBB	ECR	GOR
APPROVED		BY CH FOR APP	
DESIGN	DATE	ISSUED FOR CONSTRUCTION	NO.
BY CH FOR APP	08-27-22	1	1
BY CH FOR APP	08-27-22	ISSUED FOR BID	NO.
BY CH FOR APP	08-27-22	1	1
REVISION	NO.	DATE	BY



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TOLL FREE  
811 or 1-800-432-4770



MIAMI BEACH TO ALTON SHEATH BONDING SCHEMATIC  
SCALE: N.T.S.



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**LEGEND**

- TERMINATOR
- SPACE VAULT POLE
- PARALLEL GROUND CONDUCTOR
- GROUND ROD
- SPACE VAULT LARVE (350) BWF CABLE
- GROUNDING LINK BWF



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TWO BUSINESS DAYS BEFORE YOU DO CALL  
FLORIDA SUNSHINE 811  
TOLL FREE  
811 or 1-800-432-4770

JOB # 149307 DRAWING # U3-2

SHEET 2 OF 3

MIAMI BEACH TO ALTON  
69kW UNDERGROUND TRANSMISSION LINE

DATE	04-09-2019	SCALE	AS SHOWN	DR	BWF	ER	DEJ
				FLORIDA POWER & LIGHT			
					CH	TBB	GOR
					APPROVED		
					BY: CH		

REVISION

REVISION	BY	DATE

DATE 04-09-2019

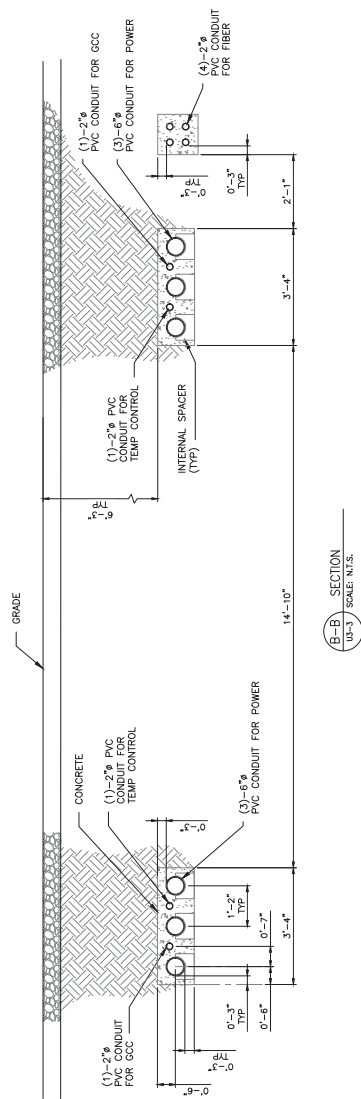
SCALE AS SHOWN

FLORIDA POWER & LIGHT

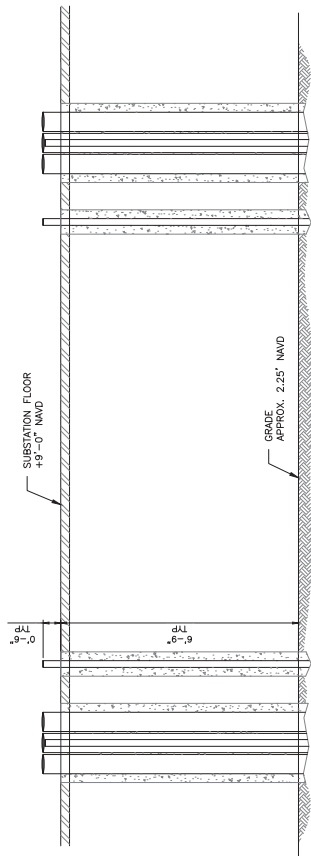
CH TBB GOR APPROVED

BY CH

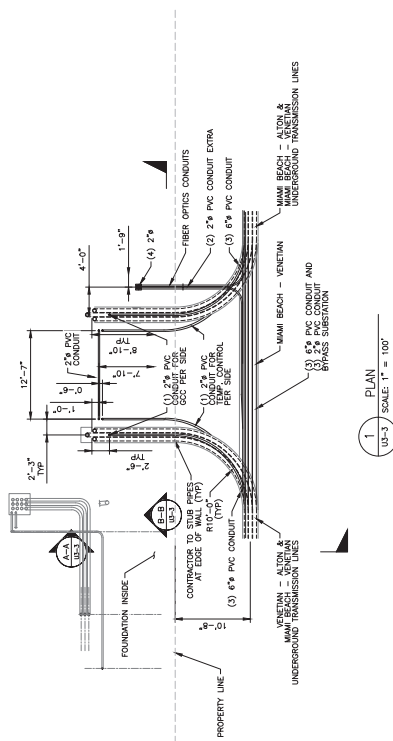




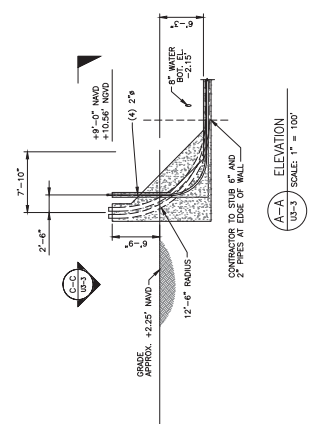
SECTION B-B  
(U-3) SCALE: N.T.S.



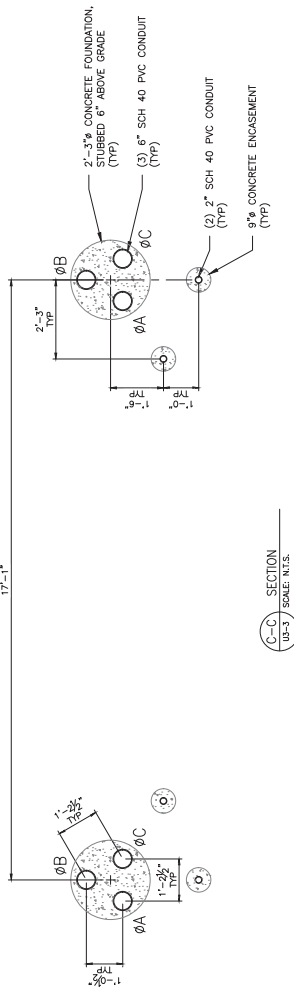
SECTION C-C  
(U-3) SCALE: N.T.S.



PLAN 1  
(U-3) SCALE: 1" = 100"



ELEVATION A-A  
(U-3) SCALE: 1" = 100"



SECTION C-C  
(U-3) SCALE: N.T.S.

DATE	05-04-2022	SCALE	AS SHOWN
DR	BWF	ER	DEJ
CH	TBB	APPROVED	
BY	CH	FOR APP	
DATE	05-04-2022	SCALE	AS SHOWN
DR	BWF	ER	DEJ
CH	TBB	APPROVED	
BY	CH	FOR APP	
DATE	05-04-2022	SCALE	AS SHOWN
DR	BWF	ER	DEJ
CH	TBB	APPROVED	
BY	CH	FOR APP	

JOB # 149370 DRAWING # U3-3  
SHEET 3 OF 3  
REV NO 3  
DATE 05/28/2022

VENETIAN TO ALTON  
69KV UNDERGROUND TRANSMISSION LINE

FLORIDA POWER & LIGHT  
Lampson & Simpson  
INCORPORATED  
REGISTERED PROFESSIONAL ENGINEER  
NO. 12487  
STATE OF FLORIDA

ISSUED FOR CONSTRUCTION - PHASE 1  
DATE 05-27-22  
BY CH FOR APP

REVISION

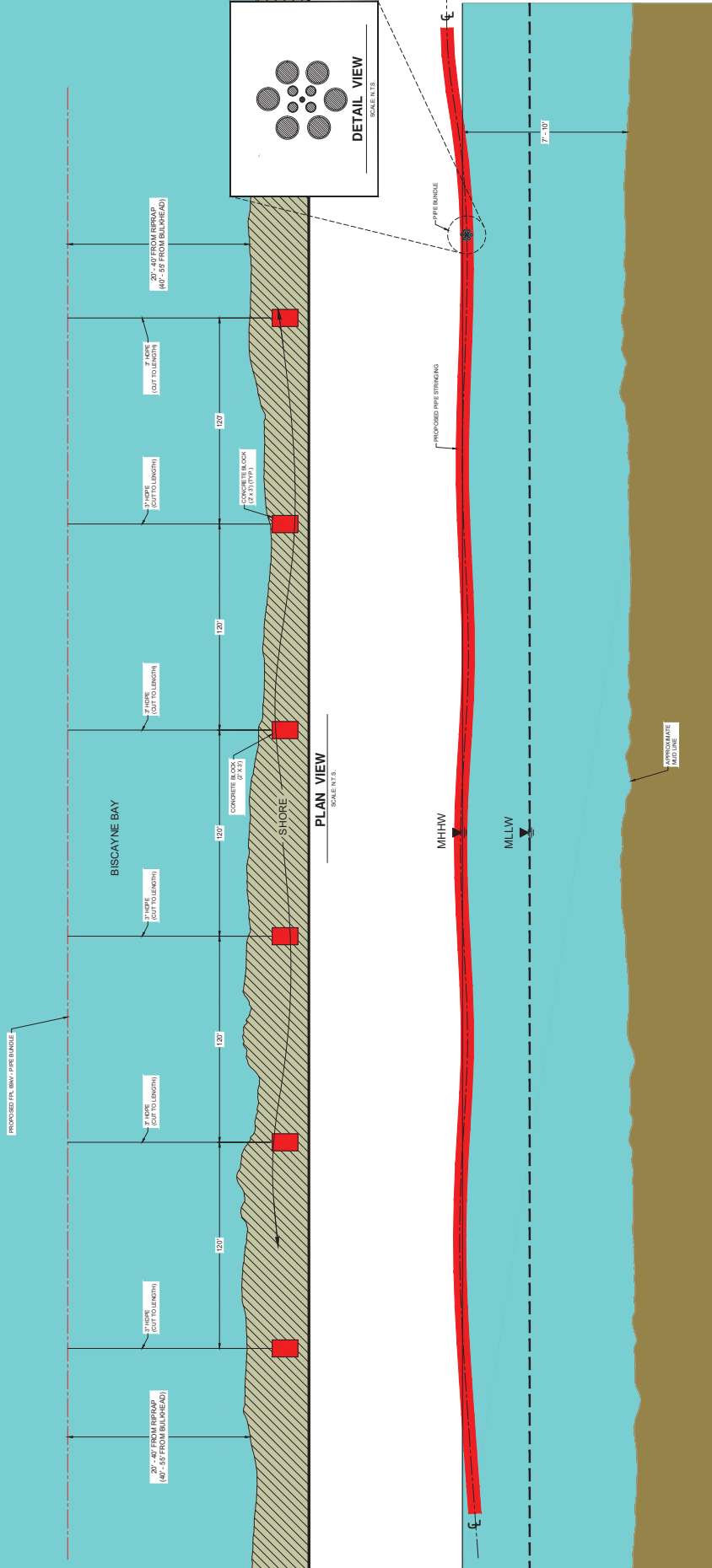
VENETIAN TO ALTON  
69KV UNDERGROUND TRANSMISSION LINES

VENETIAN TO ALTON  
69KV UNDERGROUND TRANSMISSION LINES



Know what's below.  
Call before you dig.

MIAMI-DADE, FLORIDA



**THINK SAFETY FIRST**

FLORIDA POWER & LIGHT  
MIAMI BEACH TO ALTON &  
VENETIAN TO ALTON  
66KV UNDERGROUND TRANSMISSION LINE

MIAMI-DADE COUNTY  
BISCAYNE BAY/HOOD  
TEMPORARY FOLD BACK SLINGS

DATE: 02/22/2024  
TIME: 10:11 AM

PROJECT NO.: FPL0511  
JOB NO.: E

DRAWING LEGEND		DRAWING COORDINATE SYSTEM		PIPE SPECIFICATIONS											
---	PROPOSED PIPE STRINGING	1	3	1	2	3	4	5	6	7	8	9	10	11	12
▲	APPROXIMATE HAD TO LINE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
▲	PROPOSED 12" DIA. PIPE BRIDGE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
▲	CONCRETE BLOCK (CUT TO LENGTH)	1	2	3	4	5	6	7	8	9	10	11	12	13	14
▲	12" PIPE (CUT TO LENGTH)	1	2	3	4	5	6	7	8	9	10	11	12	13	14
▲	SHOULDER	1	2	3	4	5	6	7	8	9	10	11	12	13	14
▲	APPROXIMATE HAD TO LINE	1	2	3	4	5	6	7	8	9	10	11	12	13	14

**laney**

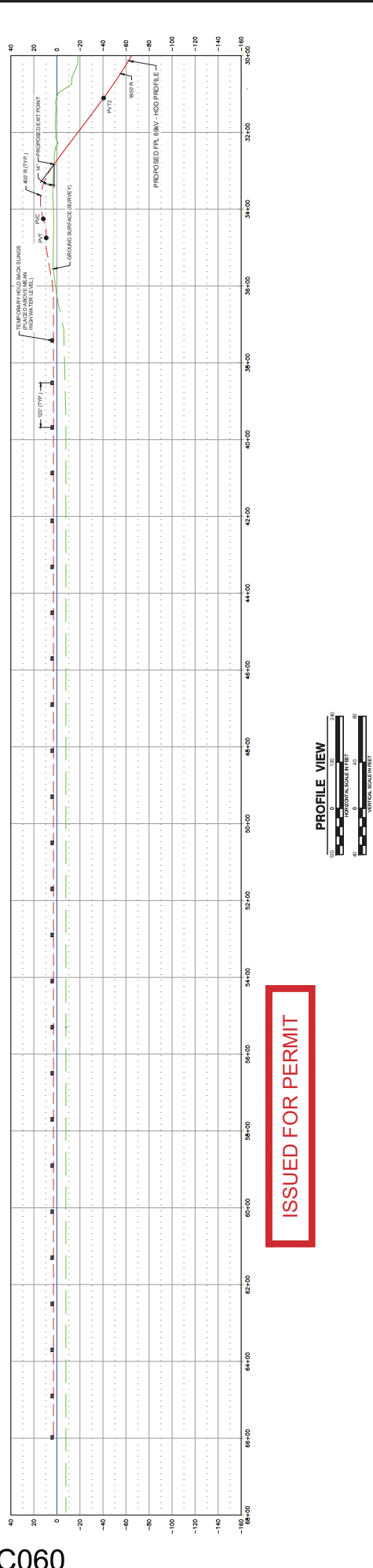
1100 Allegany Place • Waller, Texas 77484  
Tel: (281) 540-6615 Fax: (281) 540-6727

MDC058



MIAMI-DADE COUNTY, FLORIDA

23+43 PROPOSED EXIT POINT



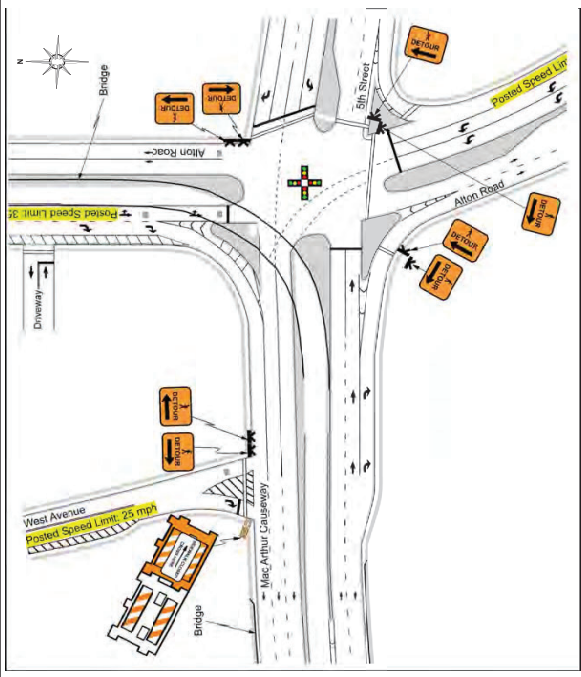
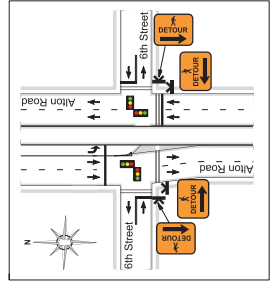
**ISSUED FOR PERMIT**

<p><b>DRAWING LEGEND</b></p> <p>PROPOSED 68KV DBS</p> <p>PROPOSED 68KV UNDERGROUND TRANSMISSION LINE</p> <p>PROPOSED EXIT POINT</p> <p>TEMPORARY HOLD BACK SLINGS (PULSED VIBRATION)</p> <p>GROUND SURFACE (SURVEY)</p> <p>PROPOSED 68kV - HDD PROFILE</p>	<p><b>DRAWING COORDINATE SYSTEM</b></p> <p>NAD 83 UTM ZONE 18Q UTM</p> <p>NAD 83 UTM ZONE 18Q UTM</p> <p>2D PLAN COORDINATES</p> <p>VERTICAL COORDINATES</p>	<p><b>PPE SPECIFICATIONS</b></p> <table border="1"> <tr><th>ITEM</th><th>DESCRIPTION</th><th>UNIT</th><th>QTY</th></tr> <tr><td>1</td><td>SAFETY VEST</td><td>PIECE</td><td>1</td></tr> <tr><td>2</td><td>HARD HAT</td><td>PIECE</td><td>1</td></tr> <tr><td>3</td><td>SAFETY GLASSES</td><td>PIECE</td><td>1</td></tr> <tr><td>4</td><td>SAFETY SHOES</td><td>PIECE</td><td>1</td></tr> <tr><td>5</td><td>SAFETY GLOVES</td><td>PIECE</td><td>1</td></tr> <tr><td>6</td><td>SAFETY TOOLS</td><td>PIECE</td><td>1</td></tr> <tr><td>7</td><td>SAFETY LIGHTS</td><td>PIECE</td><td>1</td></tr> <tr><td>8</td><td>SAFETY FLAGS</td><td>PIECE</td><td>1</td></tr> </table>	ITEM	DESCRIPTION	UNIT	QTY	1	SAFETY VEST	PIECE	1	2	HARD HAT	PIECE	1	3	SAFETY GLASSES	PIECE	1	4	SAFETY SHOES	PIECE	1	5	SAFETY GLOVES	PIECE	1	6	SAFETY TOOLS	PIECE	1	7	SAFETY LIGHTS	PIECE	1	8	SAFETY FLAGS	PIECE	1	<p><b>REVISIONS</b></p> <table border="1"> <thead> <tr><th>NO.</th><th>DESCRIPTION</th><th>DATE</th></tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DESCRIPTION	DATE						
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6	SAFETY TOOLS	PIECE	1																																													
7	SAFETY LIGHTS	PIECE	1																																													
8	SAFETY FLAGS	PIECE	1																																													
NO.	DESCRIPTION	DATE																																														
<p><b>DRAWING TITLE</b></p> <p>68KV UNDERGROUND TRANSMISSION LINE</p>		<p><b>DATE</b></p> <p>05/2022</p>																																														
<p><b>DRAWING NUMBER</b></p> <p>MDC060</p>		<p><b>PROJECT NUMBER</b></p> <p>20150000000000000000</p>																																														
<p><b>DRAWING AUTHOR</b></p> <p> </p>		<p><b>DRAWING CHECKER</b></p> <p> </p>																																														
<p><b>DRAWING APPROVER</b></p> <p> </p>		<p><b>DRAWING DATE</b></p> <p> </p>																																														
<p><b>DESIGNER</b></p> <p> </p>		<p><b>DATE</b></p> <p> </p>																																														
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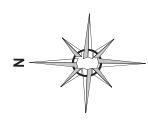
FLORIDA POWER & LIGHT		MAMI BEACH TO ALTON & 68KV UNDERGROUND TRANSMISSION LINE	
PROJECT	68KV UNDERGROUND TRANSMISSION LINE	SHEET	01 OF 01
DATE	05/2022	SCALE	AS SHOWN
DESIGNED BY		CHECKED BY	
DRAWN BY		DATE	

1. MOT in place 24 hrs for approximately 20 nights.
2. For mobilizing casing equipment MOT will remain in place (10 nights 7pm-7am). Lanes will be re-open during the day.
3. For demobilize casing and mobilize drilling equipment. (5 nights 7pm-7am). Lanes will be re-open during the day.
4. For demobilizing drilling equipment (5 nights 7pm-7am) Lanes will be re-open during the day.



**ALL DATES AND DURATIONS ARE APPROXIMATE. PLEASE ALLOW +/- 7 WORK DAYS.**

**MDC061**



- Legend**
- ADA Pedestrian Barricade
  - Arrow Board
  - Bus Stop
  - Crash Cushion
  - Drum
  - Portable Sign Stand
  - Type K Barrier
  - Work Area

**Date:** 11/21/2019 **Author:** P. Pranasiva **Project:** MacArthur Causeway - Miami, FL  
**Customer:** Florida Power & Light **Job#:** 1177065 **Designer:** T. Herrick  
**Submitted by:** C. Almadober

**Comments:**  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy



All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami.

Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.

PLANS ARE NOT TO SCALE

2019-H-691-00348  
 Elizabeth Jett  
 9/28/2019

**FDOT**  
 This Office has  
 REVIEWED  
 THE COMPANIES AND PUBLIC UTILITIES DIVISION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION APPROVES  
 DATE: 11/21/2019  
 DESIGNER: Robert W. Herrick FDOT Project # 27

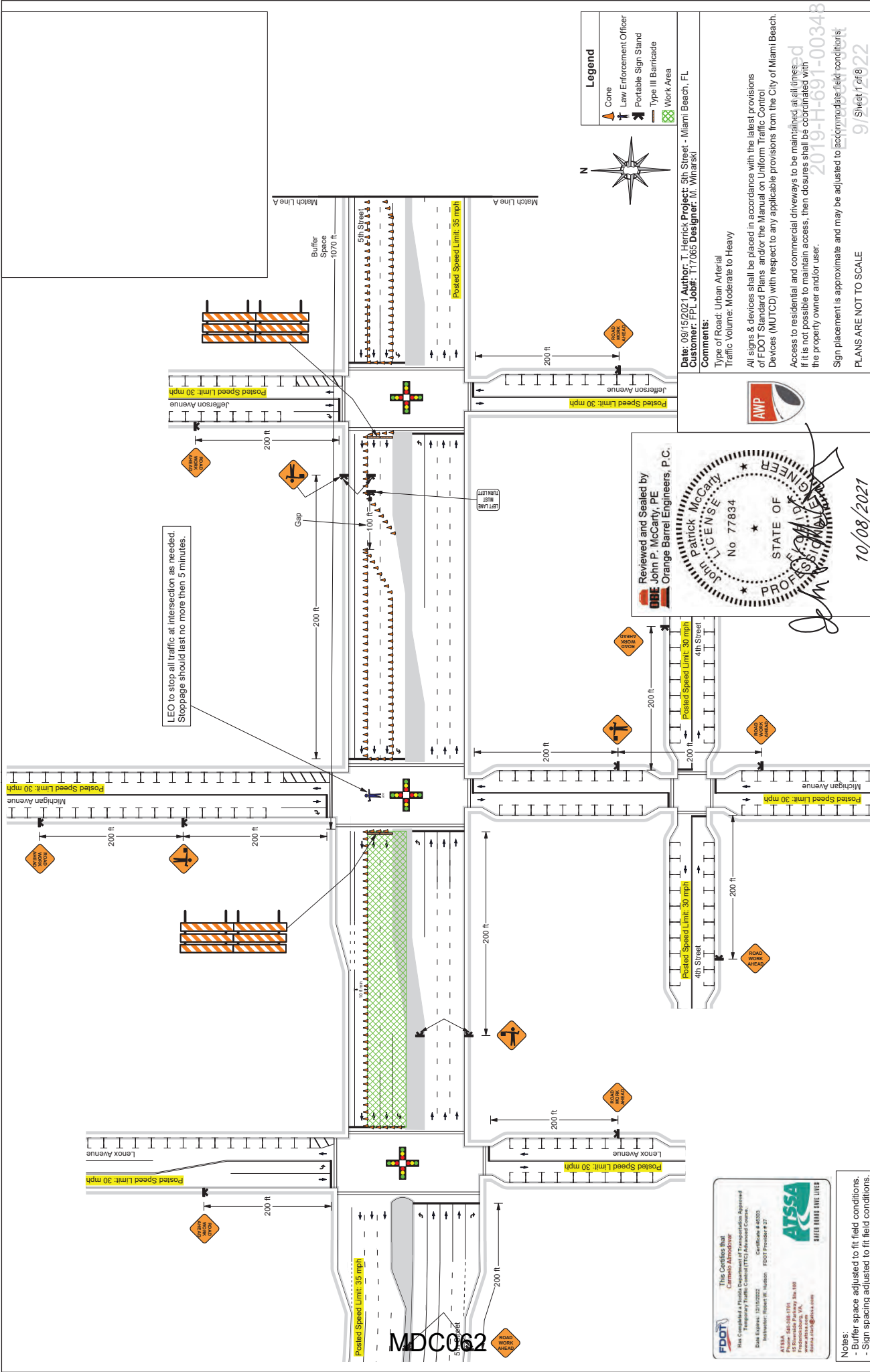
**AT&T**  
 15 University Parkway, Suite 400  
 Fort Worth, TX 76102  
 www.att.com

**ATSSA**  
 11111 1111 1111 1111

**PROFESSIONAL ENGINEER**  
 STATE OF FLORIDA  
 No. 89754  
 T. HERRICK

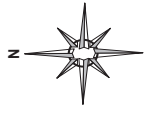
1/14/22

Note: Contractor shall coordinate with Miami Dade County Department of Transportation for any changes to the signal timing at signalized intersections, which either close any lanes or need changes in the signal operation or timing.



LEO to stop all traffic at intersection as needed.  
Stoppage should last no more than 5 minutes.

- Legend**
- Cone
  - Law Enforcement Officer
  - Portable Sign Stand
  - Type III Barricade
  - Work Area



**Notes:**

- Buffer space adjusted to fit field conditions.
- Sign spacing adjusted to fit field conditions.

Sign placement is approximate and may be adjusted to accommodate field conditions.  
PLANS ARE NOT TO SCALE

9/28/2022

**Comments:**

Type of Road: Urban Arterial  
Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach.

Access to residential and commercial driveways to be maintained at all times if it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

2019-H-691-0034B

Reviewed and Sealed by  
**John P. McCarty, PE**  
Orange Barrel Engineers, P.C.

**Professional Engineer**  
STATE OF FLORIDA  
No. 77834

*John P. McCarty*  
10/08/2021

AMP

**Author:** T. Herick Project  
**Designer:** M. Winiarski

**Customer:** FFL Job# 17,065

**Location:** 5th Street - Miami Beach, FL

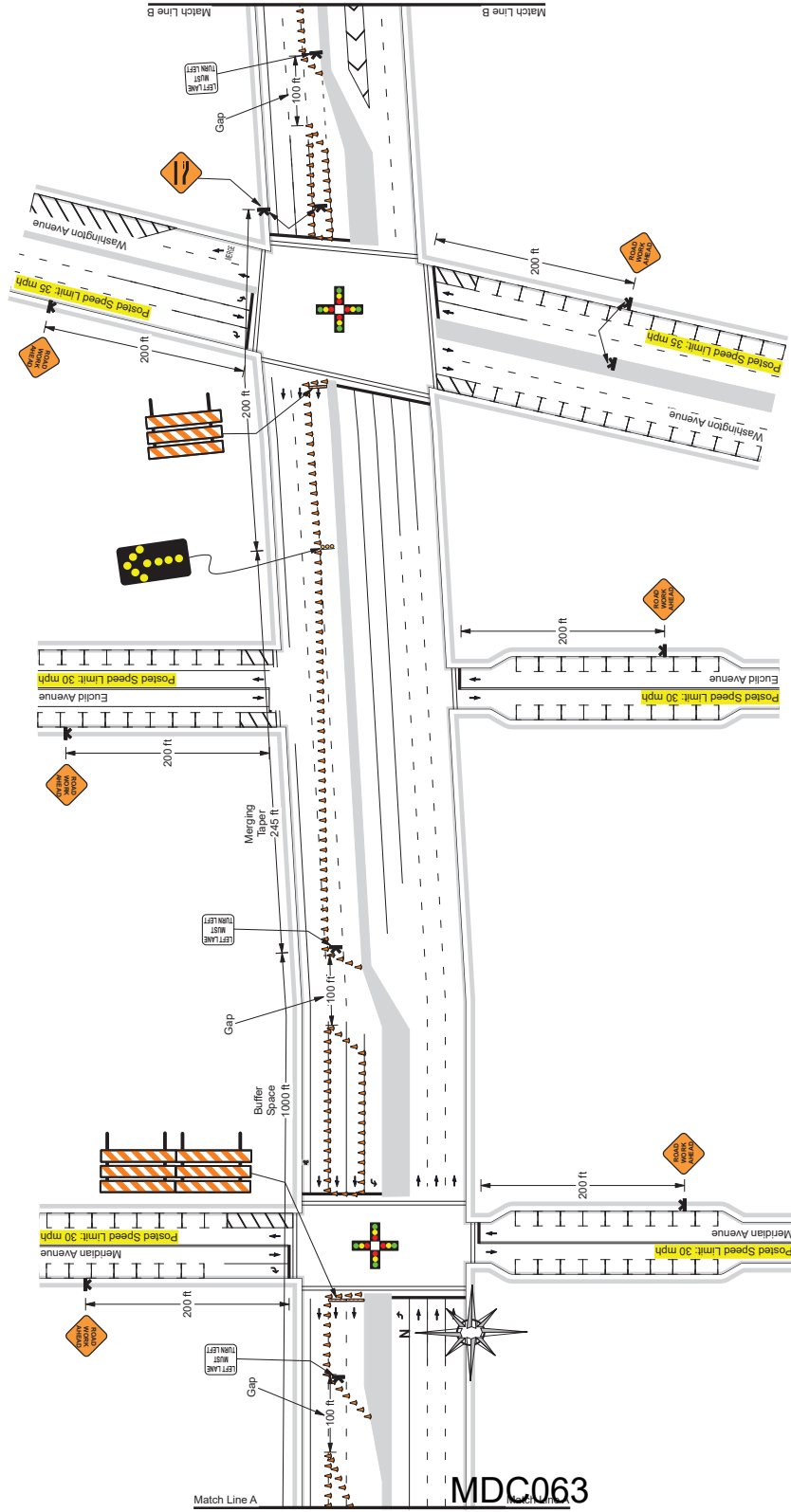
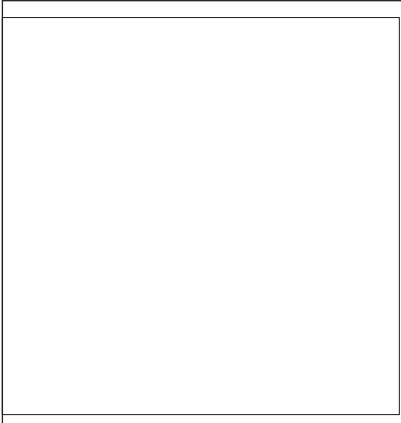
The Certifies that  
**Carmelo Almodovar**  
has completed the design of the project in accordance with the approved  
Temporary Traffic Control (TTC) Advanced Control  
Certificate #4200

Date Issued: 12/15/2022  
Inspector: Robert W. Hudson FDOT Provider # 27

ATSSA  
12000  
Phone: 404-368-1711  
12000 Peachtree Parkway, Ste 100  
Atlanta, GA 30329  
www.atssa.com

ATSSA  
12000  
Phone: 404-368-1711  
12000 Peachtree Parkway, Ste 100  
Atlanta, GA 30329  
www.atssa.com

MDC062



Legend	
	Arrow Board
	Cone
	Portable Sign Stand
	Type III Barricade



**Date:** 09/15/2021 **Author:** T. Herlick **Project:** 5th Street - Miami Beach, FL  
**Customer:** FPL Job#: T17065 **Designer:** M. Winiarski

**Comments:**  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach. Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.  
 PLANS ARE NOT TO SCALE



Reviewed and Sealed by  
**John P. McCarty, PE**  
 Orange Barrel Engineers, P.C.

10/08/2021

This Certifies that  
**Carmelo Altomador**  
 Has completed a Florida Department of Transportation Approved  
 Traffic Control Plan for the project identified by Certificate # 4200.  
 Date: Expires: 12/31/2022  
 Instructor: Robert W. Hudson FDOT Provider # 27

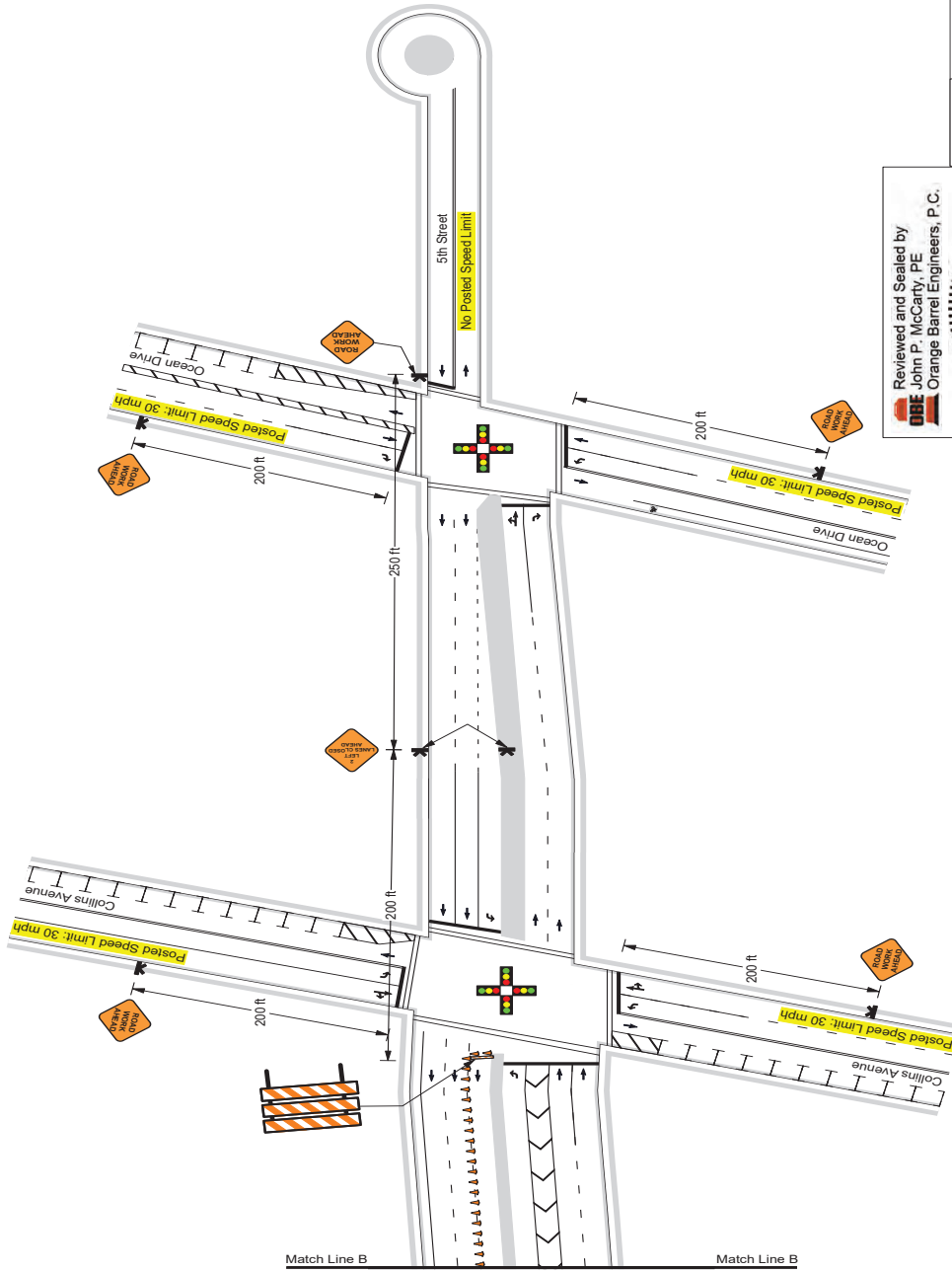
ATSSA  
 4350 S.W. 27th St.  
 33155  
 305-436-3721  
 12 Riverside Parkway, Ste 100  
 33546  
 www.atssa.com  
 atssa@atssa.com

- Notes:**
- Buffer space adjusted to fit field conditions.
  - Sign spacing adjusted to fit field conditions.

MDC063

2019-H-691-0034B  
 9/15/2022  
 Sheet 2 of 8

# MDC064



Legend	
	Cone
	Portable Sign Stand
	Type III Barricade



Date: 09/15/2021 Author: T. Herrick Project: 5th Street - Miami Beach, FL  
 Customer: FPL Job#: T17065 Designer: M. Wlinski

Comments:  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach. Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.  
 PLANS ARE NOT TO SCALE



Reviewed and Sealed by  
 John P. McCarty, PE  
 Orange Barrel Engineers, P.C.



10/08/2021

This Certificate that Carmelo Altomonte  
 Has Completed a Florida Department of Transportation Approved  
 Temporary Traffic Control (TTC) Job-related Course.  
 Date: 09/15/2021  
 Instructor: Robert G. Hudson FDOT Provider # 27

ATSSA 440-660-5714  
 102 Riverside Parkway, Ste. 100  
 Charlottesville, VA 22902  
 www.atssa.com  
 donna.clark@atssa.com

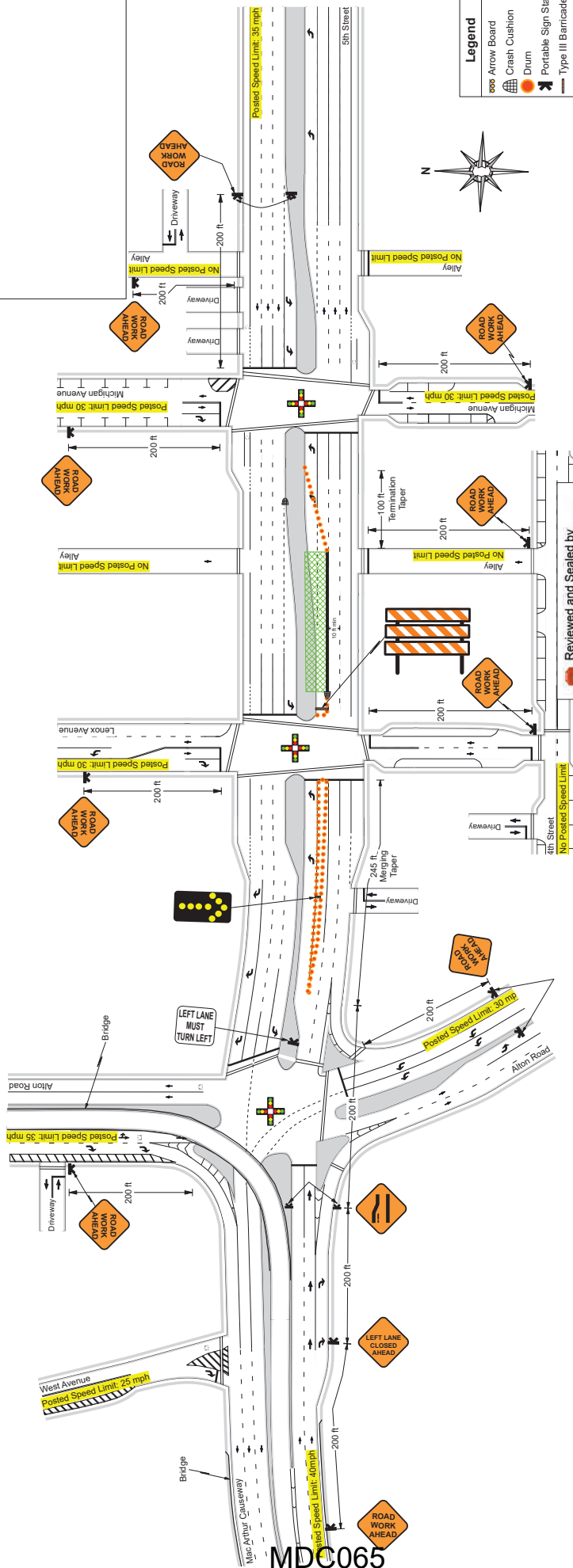
ATSSA  
 BUILD YOUR LINE LIVES

Notes:  
 - Buffer space adjusted to fit field conditions.  
 - Sign spacing adjusted to fit field conditions.

2019-H-691-0034B

9/15/2022  
 Sheet 3 of 8





- Legend**
- Arrow Board
  - Crash Cushion
  - Drum
  - Portable Sign Stand
  - Type III Barricade
  - Work Area

**Date:** 09/15/2021 **Author:** T. Herrick **Project:** 5th Street - Miami Beach, FL  
**Customer:** FPL Job#: T17065 **Designer:** M. Wlarski

**Comments:**  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach.

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Sign placement is approximate and may be adjusted to accommodate field conditions.

PLANS ARE NOT TO SCALE



Reviewed and Sealed by  
**John P. McCarty, PE**  
 Orange Barrel Engineers, P.C.

Professional Engineer  
 License No. 77834  
 State of Florida  
 Signature: John P. McCarty  
 Date: 10/08/2021

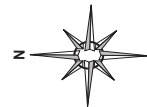
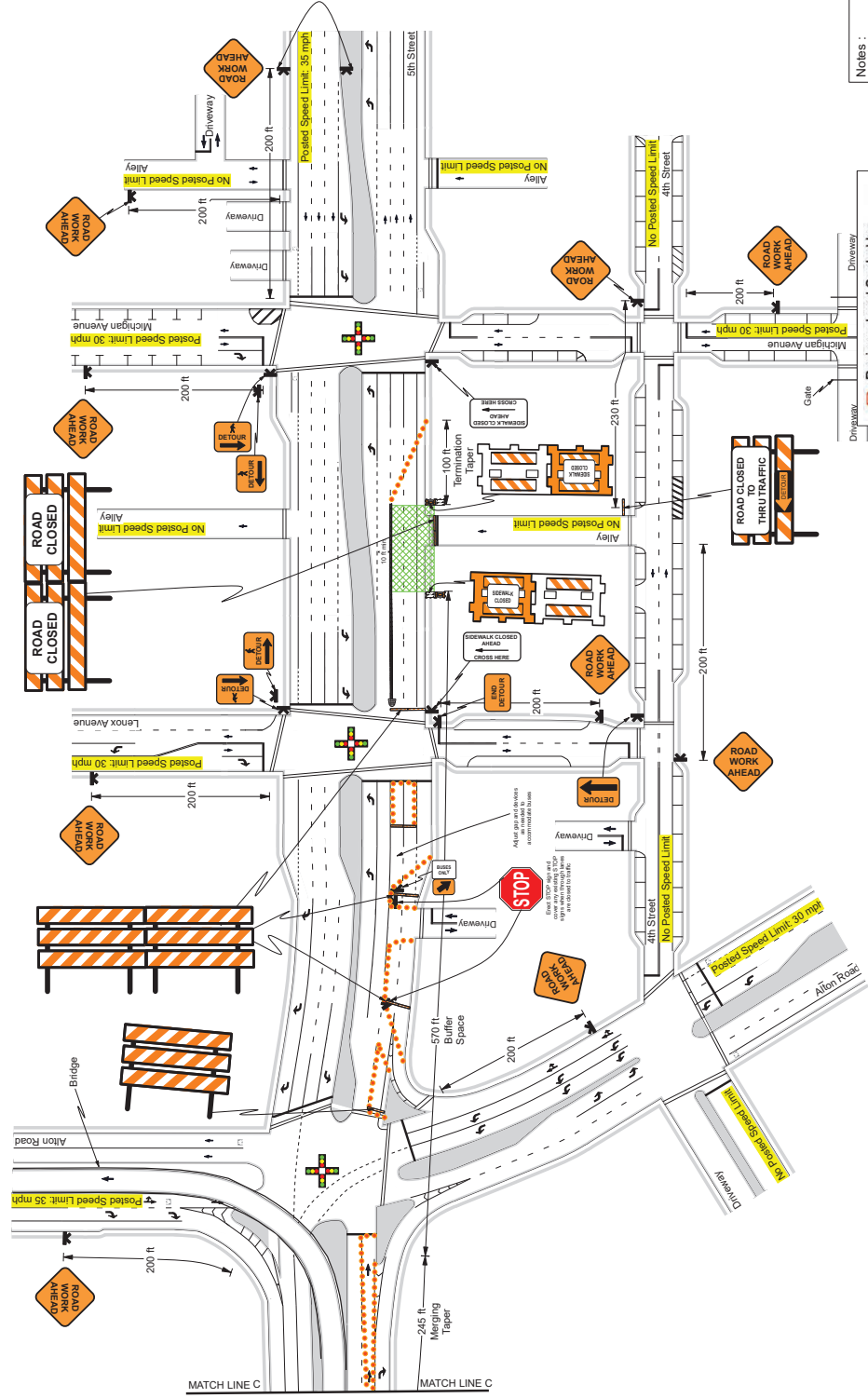
**FDOT** This Certifies that Carmelo Almodover  
 Has Completed a Florida Department of Transportation Approved Temporary Traffic Control (TTC) Advanced Course.  
 Date Expires: 12/15/2022 Certificate # 48303  
 Instructor: Robert W. Hudson FDOT Provider # 27

**ATSSA** Phone: 540-368-1701  
 15 Riverside Parkway Ste 100  
 Fredericksburg, VA  
 donna.chant@atssa.com

**ATSSA** SAFER ROADS SAVE LIVES

- Notes:**
- Buffer space reduced to fit field conditions.
  - Barrier flare eliminated to fit field conditions.
  - Distance between intersections is insufficient to provide a merge lag of 100 ft gap, therefore a modified version of Index 102-615 was used to provide a left turn lane.

MDC065



**Legend**

	ADA Pedestrian Barricade
	Crash Cushion
	Drum
	Portable Sign Stand
	Type III Barricade
	Type K Barrier
	Work Area

**Notes:**

- Buffer space extended to fit field conditions.
- Sign spacing adjusted to fit field conditions.
- Barrier flare eliminated to fit field conditions.

**Date:** 09/15/2021 **Author:** T. Henrick **Project:** 5th Street - Miami Beach, FL  
**Customer:** FPL **Job#:** T17065 **Designer:** M. Wlarski

**Comments:**  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach. Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.  
 PLANS ARE NOT TO SCALE



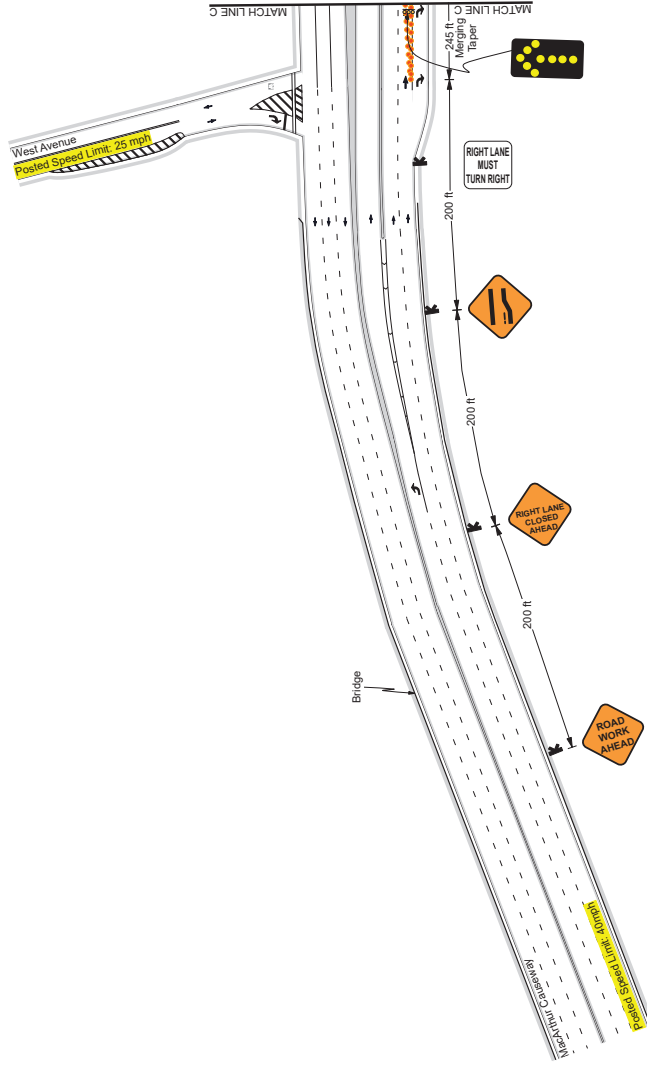
Reviewed and Sealed by  
**John P. McCarty, PE**  
 Orange Barrel Engineers, P.C.



10/08/2021

**FDOT** This Certifies that **Carmelo Almodovar**  
 Has Completed a Florida Department of Transportation Approved  
 Temporary Traffic Control (TTC) Advanced Course.  
 Date Expires: 12/15/2022 Certificate # 46303  
 Instructor: Robert W. Hudson FDOT Provider # 37

**ATSSA** SAFER ROADS SAVE LIVES  
 ATSSA 540-368-1701  
 10 Riverside Parkway Ste 100  
 Fredericksburg, VA  
 www.atssa.com  
 donna.clark@atssa.com



Legend	
	Arrow Board
	Drum
	Portable Sign Stand

Notes :  
 - Buffer space extended to fit field conditions.  
 - Sign spacing adjusted to fit field conditions.

Date: 09/15/2021 Author: T. Henrick Project: 5th Street - Miami Beach, FL  
 Customer: FPL Job#: T17065 Designer: M. Wlmaraki

Comments:  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach. Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

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 PLANS ARE NOT TO SCALE

Reviewed and Sealed by  

 John P. McCarty, PE  
 Orange Barrel Engineers, P.C.

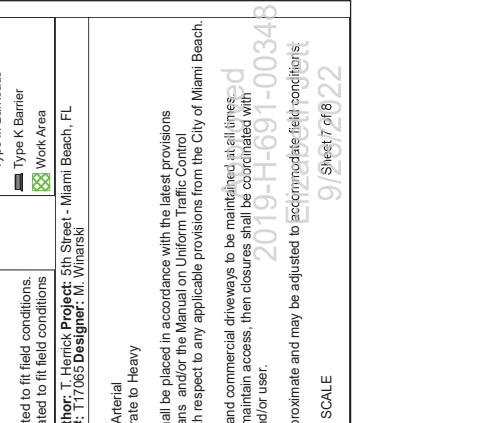
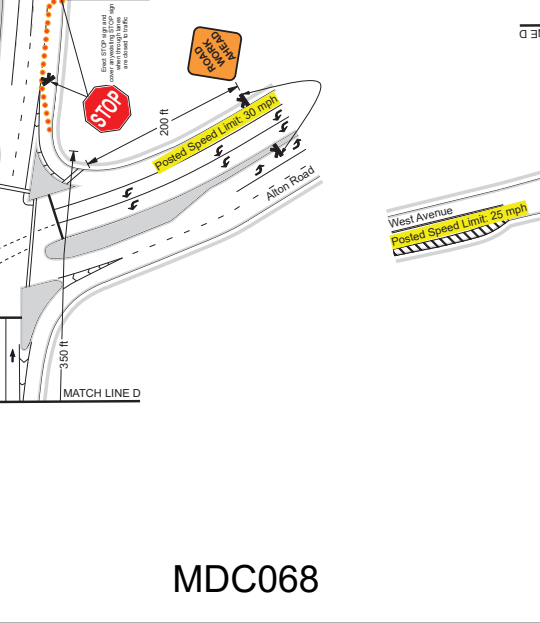
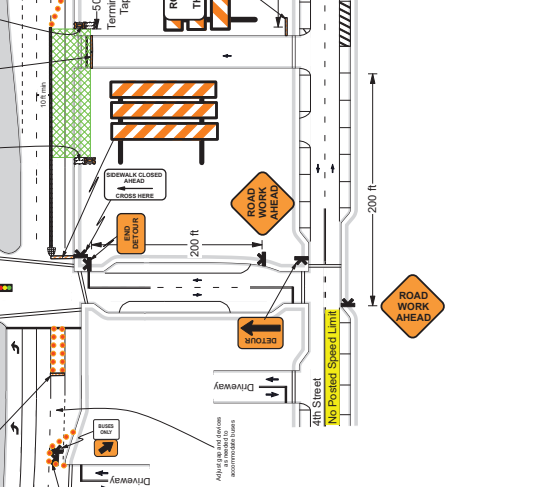
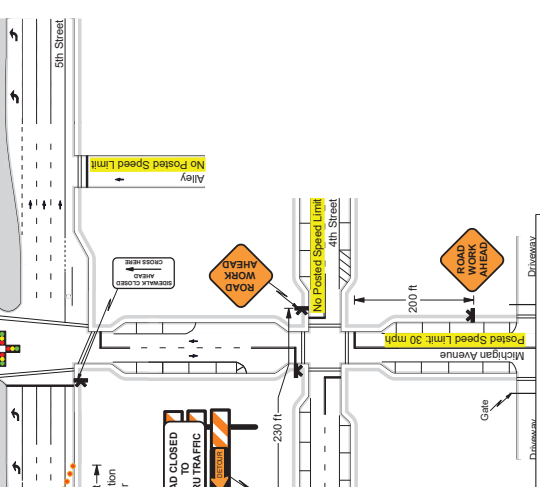
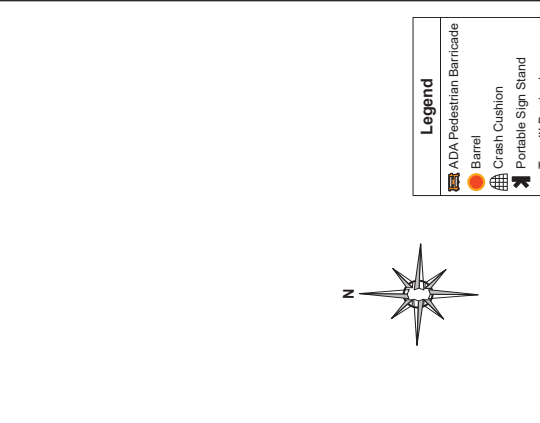
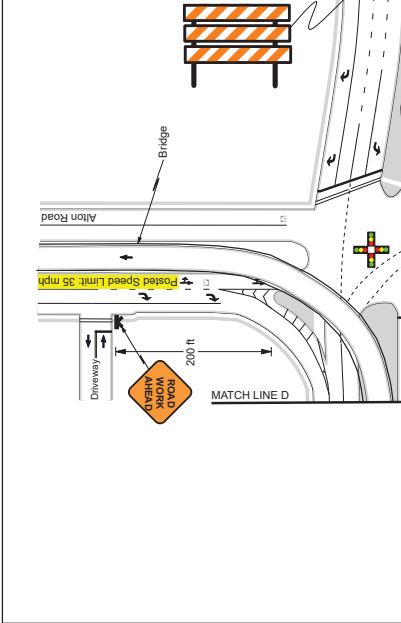
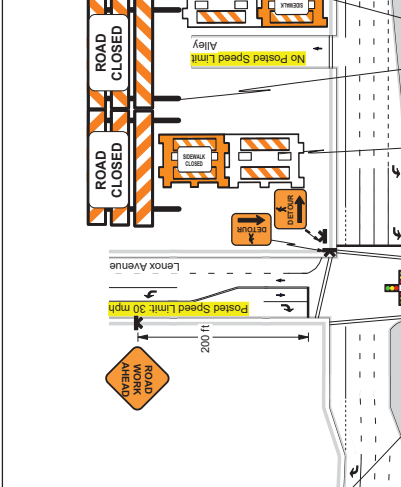
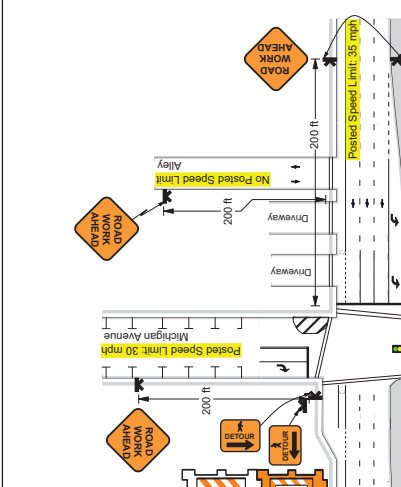
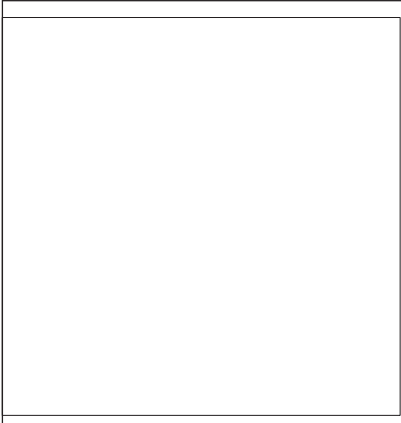
*John P. McCarty*  
 10/08/2021



2019-H-691-00348

**FDOT** This Certifies that **Carmelo Almodovar**  
 Has Completed a Florida Department of Transportation Approved  
 Temporary Traffic Control (TTC) Advanced Course.  
 Date Expires: 12/15/2022 Instructor: Robert W. Hudson Certificate # 46303  
 FDOT Provider # 37

**ATSSA** SAFER ROADS SAVE LIVES  
 ATSSA 540-368-1701  
 PO Riverside Parkway Ste. 100  
 Fredericksburg, VA  
 www.atssa.com  
 donna.clark@atssa.com



- Legend**
- ADA Pedestrian Barricade
  - Barrel
  - Crash Cushion
  - Portable Sign Stand
  - Type II Barricade
  - Type K Barrier
  - Work Area



**Note:**  
 - Sign spacing adjusted to fit field conditions.  
 - Barrier flare eliminated to fit field conditions  
**Customer:** FPL Job#: T17065  
**Designer:** M. Wlarski

**Date:** 09/15/2021  
**Author:** T. Henrick  
**Project:** 5th Street - Miami Beach, FL  
**Type of Road:** Urban Arterial  
**Traffic Volume:** Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach.

Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.

PLANS ARE NOT TO SCALE



Reviewed and Sealed by  
**John P. McCarty, PE**  
 Orange Barrel Engineers, P.C.

Professional Engineer  
 License No. 77834  
 State of Florida

10/08/2021

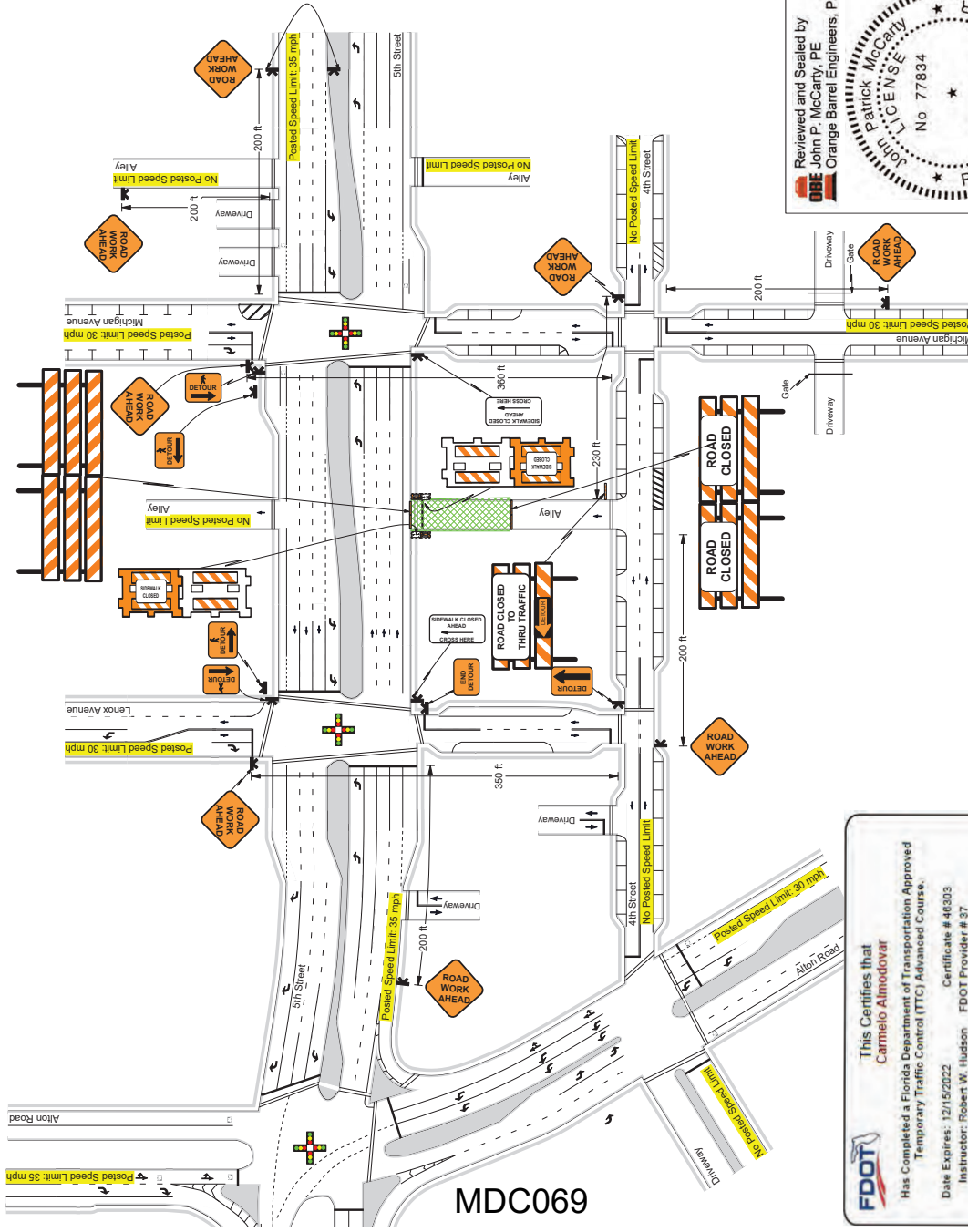
**FDOT**  
 This Certifies that  
**Carmelo Almodovar**  
 Has Completed a Florida Department of Transportation Approved  
 Temporary Traffic Control (TTC) Advanced Course.

Date Expires: 12/15/2022 Certificate # 48303  
 Instructor: Robert W. Hudson FDOT Provider # 37

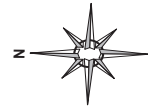
**ATSSA**  
 SAFER HONDS SAVE LIVES

ATSSA 540-368-1701  
 15 Riverside Parkway Ste. 100  
 Fredericksburg, VA  
 www.atssa.com  
 donna.clair@atssa.com

MDC068



MDC069



Legend	
	ADA Pedestrian Barricade
	Portable Sign Stand
	Type III Barricade
	Work Area

Note :  
- Sign spacing adjusted to fit field conditions.

Date: 09/15/2021 Author: T. Henrick Project: 5th Street - Miami Beach, FL  
Customer: FPL Job#: T17065 Designer: M. Wlarski

Comments:  
Type of Road: Urban Arterial  
Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach. Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.  
PLANS ARE NOT TO SCALE

Reviewed and Sealed by  
John P. McCarty, PE  
Orange Barrel Engineers, P.C.



10/08/2021

**FDOT** This Certifies that **Carmelo Almodovar**  
Has Completed a Florida Department of Transportation Approved  
Temporary Traffic Control (TTC) Advanced Course.  
Date Expires: 12/15/2022 Certificate # 46303  
Instructor: Robert W. Hudson FDOT Provider # 37

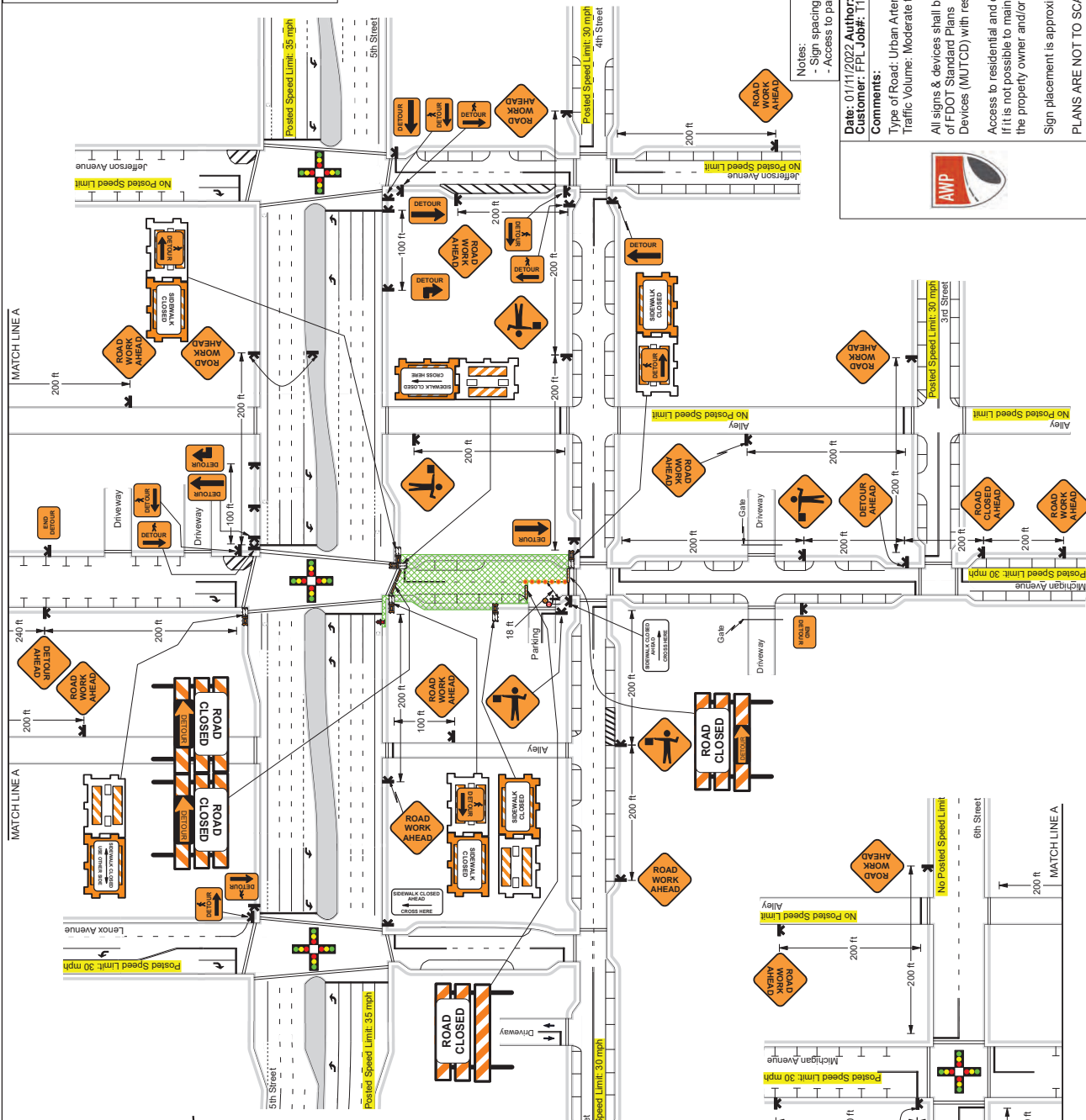
**ATSSA** SAFER ROADS SAVE LIVES  
ATSSA 540-368-1701  
10 Riverside Parkway Ste 100  
Fredericksburg, VA  
www.atssa.com  
donna.clark@atssa.com

2019-H-691-0034B  
9/28/2022  
Sheet 8 of 8

Reviewed and Sealed by  
**DBE** John P. McCarty, PE  
 Orange Barrel Engineers, P.C.  
 State of Florida Professional Engineer  
 License No. 77834  
 Date: 1/14/2022

Notes:  
 Sidewalk access to building on south-west  
 corner of intersection of Michigan Ave &  
 5th St will be maintained.

MDC070



**FDOT**  
 This Certificate that  
 Temporary Traffic Control (TTC) Approved  
 Date Expires: 12/15/2022  
 Certificate # 40203  
 Issuance: Robert W. Hudson FDOT Provider # 27

**ATSSA**  
 Phone: 540-548-1791  
 Fax: 540-548-1792  
 www.atssa.com  
 10000 Old Lee Road, Suite 100  
 Fredericksburg, VA 22401

**ATSSA**  
 HIGH RISK JOB LINES

**Legend**

- ADA Pedestrian Barricade
- Drums
- Fire Hydrant
- Flagger
- Portable Sign Stand
- Type II Barricade
- Work Area

N

**Date:** 01/11/2022 **Author:** T. Herrick **Project:** 5th Street - Miami Beach, FL  
**Customer:** FPL **Job#:** 117066 **Designer:** M. Winiarski

**Comments:**  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy

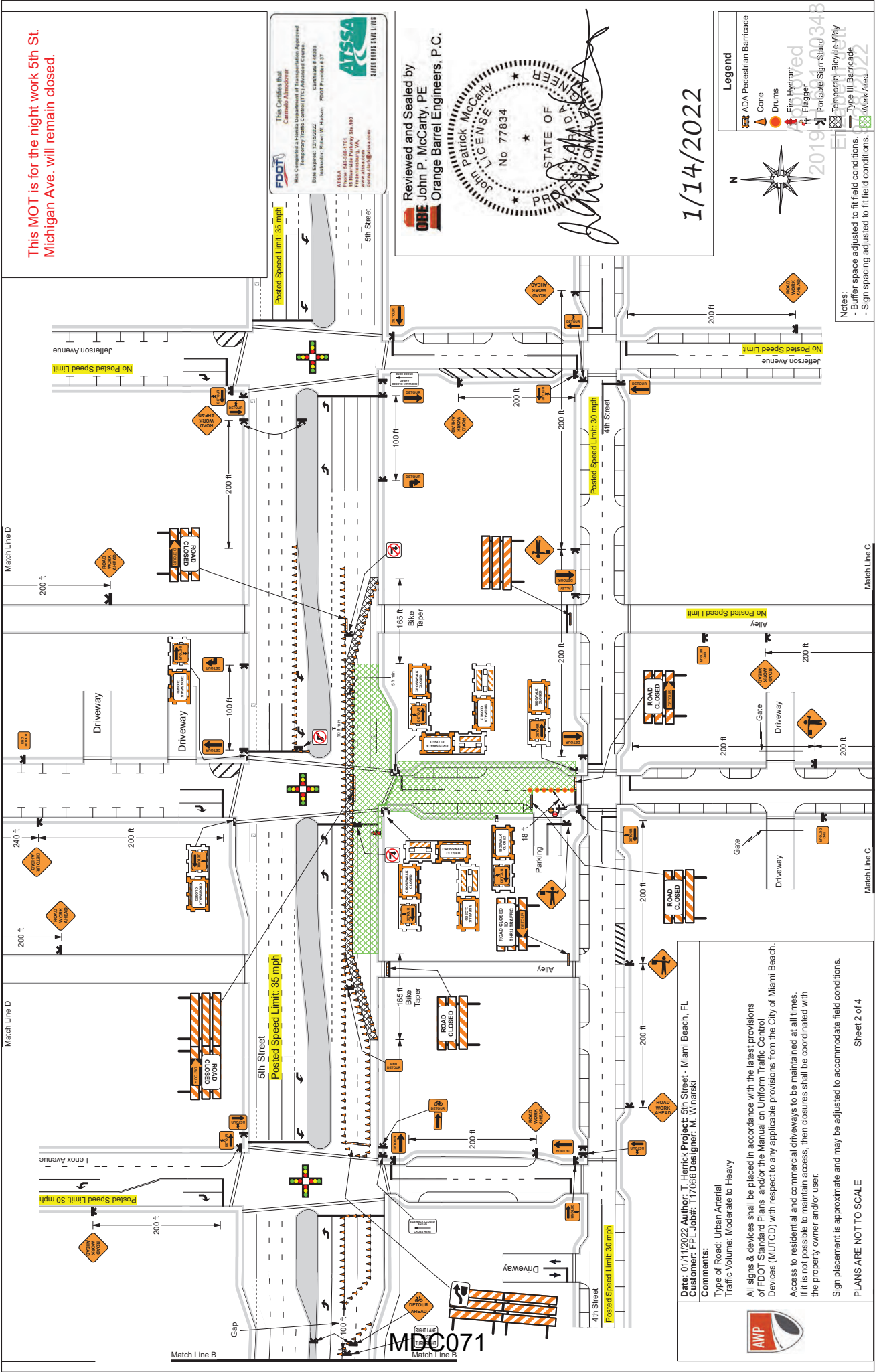
All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach. Access to residential and commercial driveways to be maintained, at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions. PLANS ARE NOT TO SCALE



2019-H-691-0034B  
 9/23/2022

This MOT is for the night work 5th St.  
Michigan Ave. will remain closed.



**FDOT**  
The Florida Department of Transportation  
Has Complied a Florida Department of Transportation Approved  
Temporary Traffic Control (TTC) Advanced Certificate # 46203.  
Date Expires: 12/15/2022  
Instructor: Robert W. Hudson FDOT Provider # 37

**ATSSA**  
Professional Traffic Signage  
17000 Lee Blvd  
Farmingdale, NY 11735  
Phone: 516-351-1794  
Fax: 516-351-1795  
www.atssa.com

Reviewed and Sealed by  
**OBE**  
John P. McCarty, PE  
Orange Barrel Engineers, P.C.

Professional Engineer  
STATE OF FLORIDA  
No. 77834  
Professional Seal of John Patrick McCarty

1/14/2022

**Legend**

	ADA Pedestrian Barricade
	Cone
	Drums
	Fire Hydrant
	Flagger
	Portable Sign Stand
	Temporary Bicycle Way
	Type II Barricade
	Micro Area



Notes:  
- Buffer space adjusted to fit field conditions.  
- Sign spacing adjusted to fit field conditions.

Date: 01/11/2022 Author: T. Herrick Project: 5th Street - Miami Beach, FL  
Customer: FPL Job#: 171066 Designer: M. Winiarski

**Comments:**  
Type of Road: Urban Arterial  
Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach.

Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.  
PLANS ARE NOT TO SCALE



Reviewed and Sealed by  
**John P. McCarty, PE**  
 Orange Barrel Engineers, P.C.



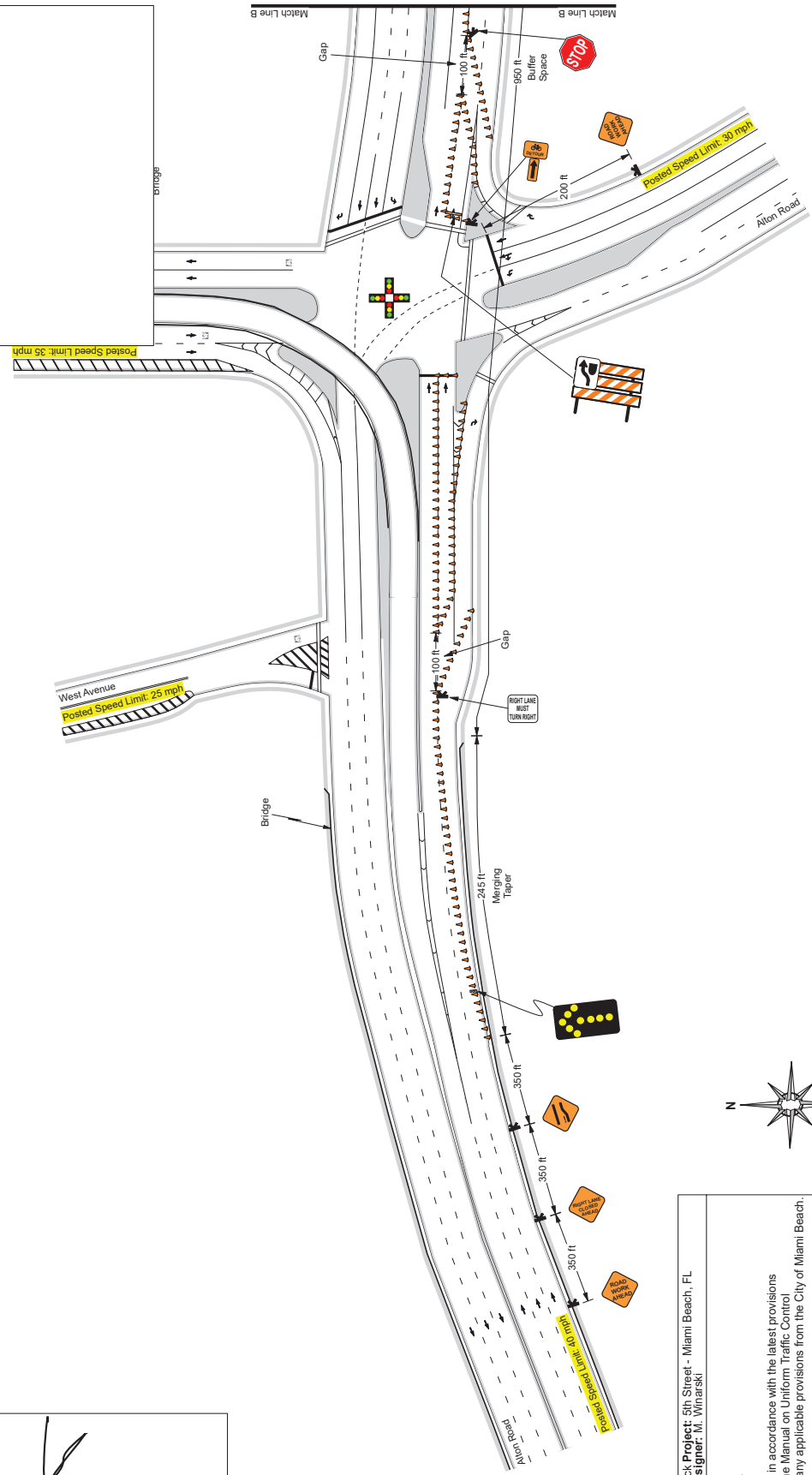
*John P. McCarty*

1/14/2022

This Certificate Shall  
 Certify That the Work  
 Has Complied a Florida Department of Transportation Approved  
 Temporary Traffic Control (TTC) Advanced Course.  
 Certificate # 44523  
 Date Expires: 12/15/2022  
 Instructor: Robert W. Hudson FDOT Provider # 37

ATSSA  
 Phone: 682-588-4791, 800-368-1000  
 10000 North Central Expressway, Suite 100  
 Fort Worth, Texas 76137  
 Email: info@atssa.com, atssa.com

MDC072



Legend	
	Arrow Board
	Cone
	Portable Sign Stand

**Date:** 01/11/2022 **Author:** T. Herrick **Project:** 6th Street - Miami Beach, FL  
**Customer:** FPL Job#: 117066 **Designer:** M. Winiarski

**Comments:**  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach.

Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.

PLANS ARE NOT TO SCALE

Sheet 3 of 4

Approved  
 2019-H-691-00348  
 Elizabeth Jett  
 9/28/2022

**Notes:**  
 - Buffer space adjusted to fit field conditions.  
 - Sign spacing adjusted to fit field conditions.



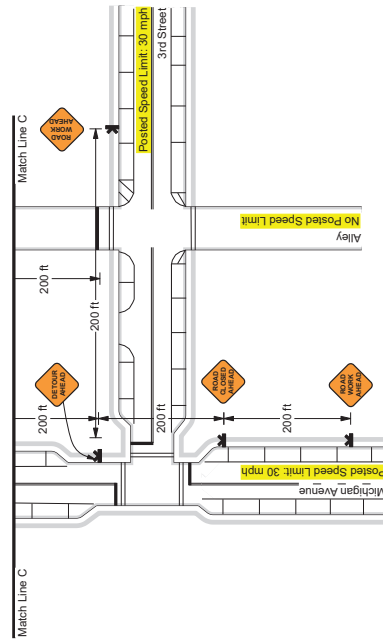
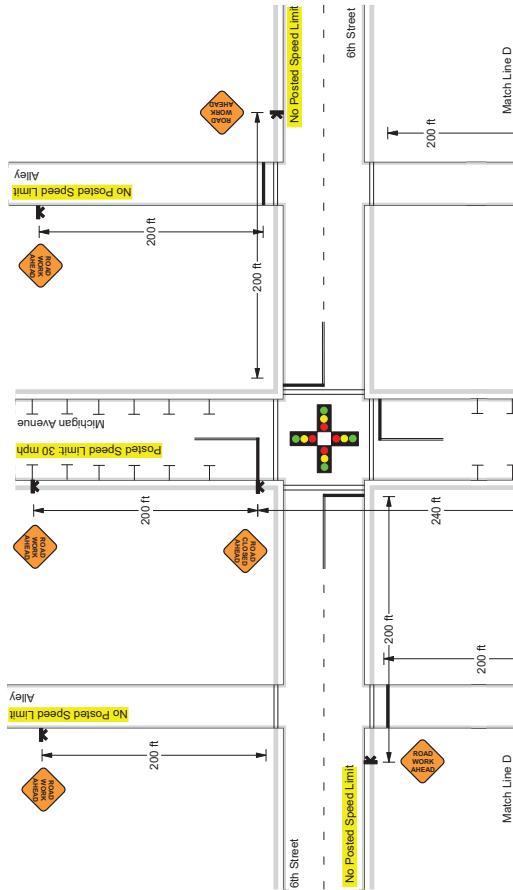
Reviewed and Sealed by  
**OBE** John P. McCarty, PE  
 Orange Barrel Engineers, P.C.



1/14/2022



MDC073



**Legend**  
 Portable Sign Stand

**Date:** 01/11/2022 **Author:** T. Herrick **Project:** 5th Street - Miami Beach, FL  
**Customer:** FPL Job#: T17066 **Designer:** M. Winiarski

**Comments:**  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy



All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach. Access to residential and commercial driveways to be maintained at all times and it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions. PLANS ARE NOT TO SCALE

**Notes:**  
 - Buffer space adjusted to fit field conditions.  
 - Sign spacing adjusted to fit field conditions.

2019-H-691-0034B  
 9/28/2022  
 Sheet 4 of 4

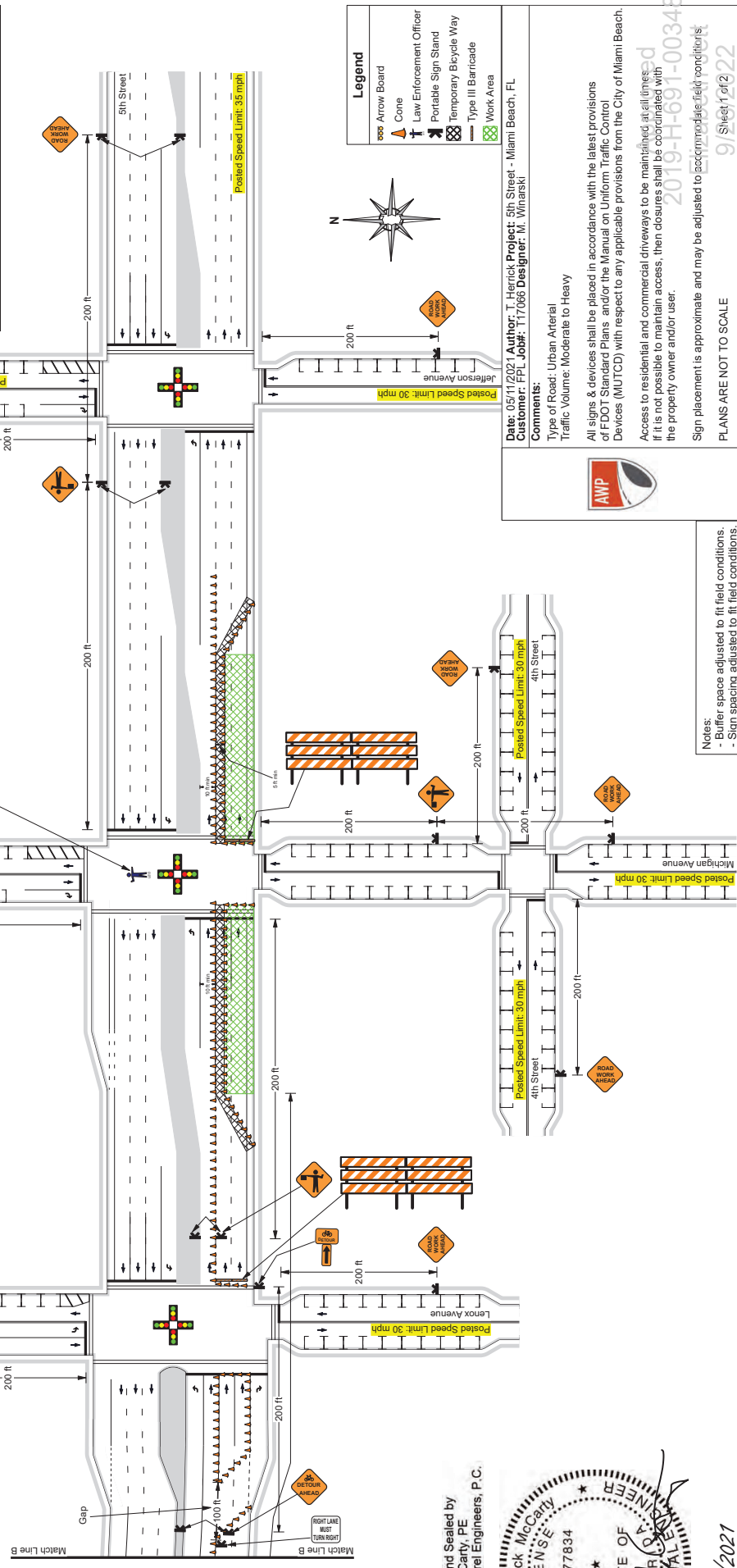
This Certificate that I hereby certify that the work shown on the attached plans was completed in accordance with the approved plans and specifications and that the work was done in accordance with the approved plans and specifications.

**FDOT**  
 Florida Department of Transportation  
 Temporary Traffic Control (TTC) Administrator  
 Date Expires: 12/31/2022  
 Certificate # 40303  
 Inspector: Robert W. Hudson FDOT Provider # 37

**ATSSA**  
 American Traffic Safety Services Association  
 10000 Highway 100  
 Jacksonville, FL 32216  
 Phone: 904.354.1700  
 Fax: 904.354.1701  
 Website: www.atssa.com

1. For mobilizing casing equipment MOT will remain in place, 2 nights 7pm-7am. Lanes will be re-open during the day.
2. For demobilize casing and mobilize drilling equipment, 5 nights, 7pm-7am. Lanes will be re-open during the day.
3. For demobilizing drilling equipment at Michigan Ave., 5 nights, 7pm-7am.

LEO to stop all traffic at intersection as needed. Stoppage should last no more than 5 minutes.



MDC074

**Legend**

- Arrow Board
- Cone
- Law Enforcement Officer
- Portable Sign Stand
- Temporary Bicycle Way
- Type III Barricade
- Work Area

**Date:** 05/14/2021 **Author:** T. Herich **Project:** 5th Street - Miami Beach, FL  
**Customer:** FFL Job# 17,066 **Designer:** M. Wilanski

**Comments:**  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy

All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach. Access to residential and commercial driveways to be maintained at all times. If it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.  
 PLANS ARE NOT TO SCALE



**Notes:**  
 - Buffer space adjusted to fit field conditions.  
 - Sign spacing adjusted to fit field conditions.

Reviewed and Sealed by  
 John P. McCarty, PE  
 Orange Barrel Engineers, P.C.

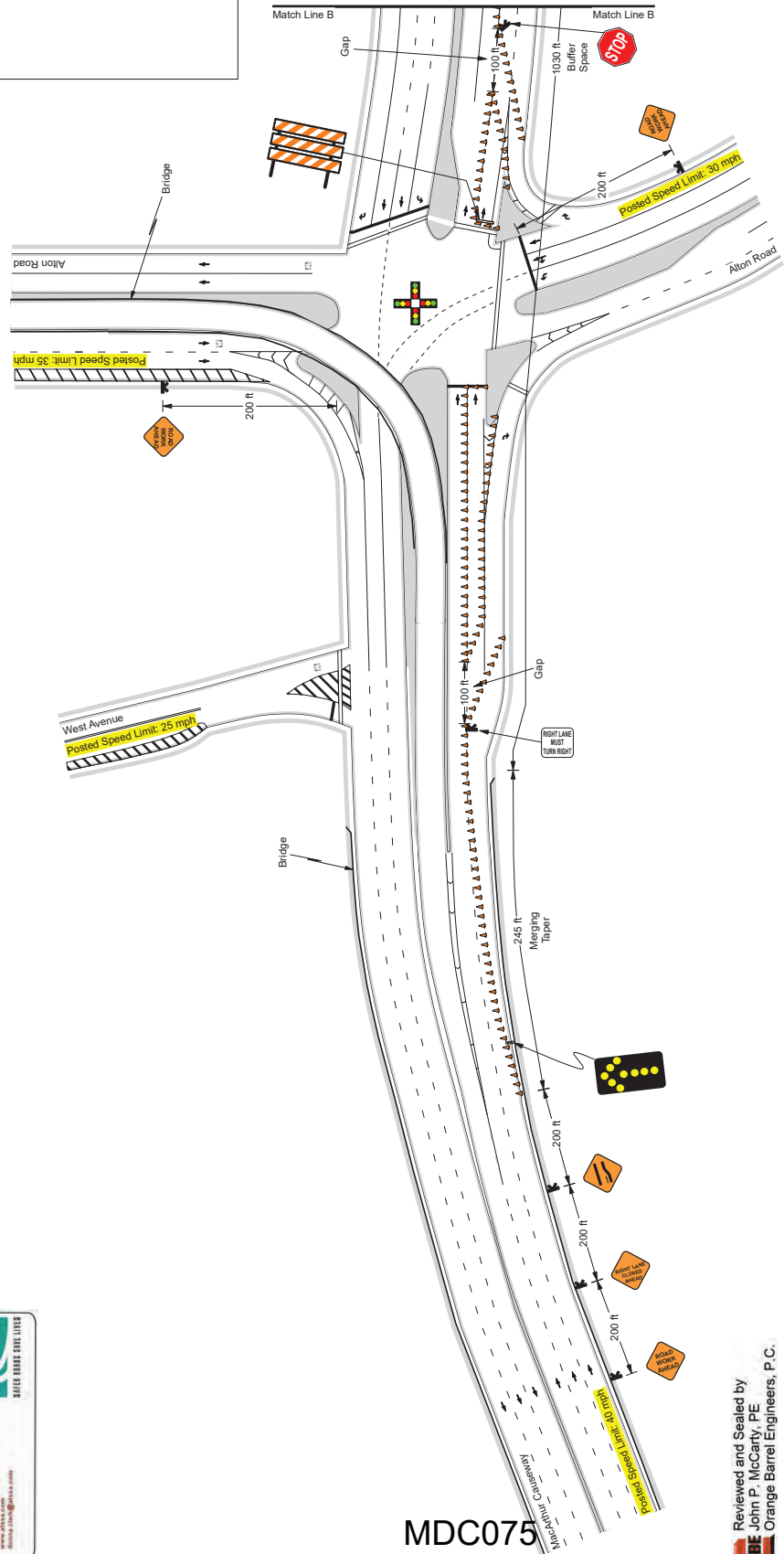


10/14/2021

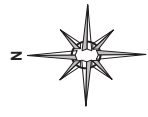
2019-H-691-0034B  
 9/28/2022


 This Certificate was  
 issued to  
 Carlos Almonacid  
 His Compliance with Florida Department of Transportation Approved  
 Temporary Traffic Control (TTC) Advanced Course  
 Date Expires: 12/31/2022 Certificate # 46293  
 Instructor: Robert W. Hudson FDOT Provider # 87  

  
 ATSSA  
 6400 32nd Street  
 Fort Lauderdale, FL 33309  
 Phone: 954-344-1700  
 Fax: 954-344-1701  
 Website: www.atssa.com



MDC075



**Legend**

	Arrow Board
	Cone
	Law Enforcement Officer
	Portable Sign Stand
	Temporary Bicycle Way
	Type III Barricade
	Work Area

**Date:** 05/11/2021 **Author:** T. Herrick **Project:** 5th Street - Miami Beach, FL  
**Customer:** FPL **Job#:** T17066 **Designer:** M. Wlinski

**Comments:**  
 Type of Road: Urban Arterial  
 Traffic Volume: Moderate to Heavy  
 All signs & devices shall be placed in accordance with the latest provisions of FDOT Standard Plans and/or the Manual on Uniform Traffic Control Devices (MUTCD) with respect to any applicable provisions from the City of Miami Beach. Access to residential and commercial driveways to be maintained at all times if it is not possible to maintain access, then closures shall be coordinated with the property owner and/or user.

Sign placement is approximate and may be adjusted to accommodate field conditions.  
 PLANS ARE NOT TO SCALE



**Notes:**  
 - Buffer space adjusted to fit field conditions.  
 - Sign spacing adjusted to fit field conditions.

Reviewed and Sealed by  
 John P. McCarty, PE  
 Orange Barrel Engineers, P.C.



10/14/2021

2019-H-691-0034B  
 9/28/2022

Pursuant to Section 337.403 F.S., the UAO and FDOT agree to the UAO's need for relocation or adjustment to its utilities and FDOT's need for a schedule for the UAO to effect the relocation or adjustment. This utility work schedule is based on FDOT plans dated in the project information box below. Any deviation by FDOT or its contractor from these plans, may void this utility work schedule. Upon notification by FDOT of a change to these plans, the UAO may negotiate a new utility work schedule. The UAO agrees to notify FDOT and the contractor in writing prior to starting, stopping, resuming, and completing work in accordance with this utility work schedule. The UAO shall obtain a utility permit and comply with requirements of the 2017 Utility Accommodation Manual (UAM) for all work done under this utility work schedule. The UAO is not responsible for events beyond the control of the UAO that could not be reasonably anticipated by the UAO and which could not be avoided by the UAO with exercise of due diligence at the time of the occurrence.

**FDOT PROJECT INFORMATION**

Financial Project ID: 443432-1-52-01	Federal Project ID:
State Road Number: A1A - MacArthur Causeway	County: Miami-Dade
FDOT Plans Dated: May 2021	District Document No.:

**UTILITY AGENCY/OWNER (UAO)**

Utility Company: FPL - Transmission	Phone: 305-301-5616	E-mail: james.joseph@fpl.com
UAO Project Rep: James Joseph	Phone: 305-282-8272	E-mail: dayron.chigin@fpl.com
UAO Field Rep: Dayron Chigin		

**UTILITY SIGNATURE**

I have reviewed the FDOT plans referenced above and submit this utility work schedule in compliance with UAM Section 5 and agree to be bound by the terms of this utility work schedule.

UAO Rep. James Joseph Date 9 / 9 / 2022  
 Name James Joseph  
 Title Transmission Relocation Coordinator

**ENGINEER OF RECORD SIGNATURE**

I attest this utility work schedule is compatible with the FDOT plans referenced above.

EOR. \_\_\_\_\_ Date \_\_\_ / \_\_\_ / \_\_\_  
 Name \_\_\_\_\_  
 Title \_\_\_\_\_

**APPROVAL BY DISTRICT UTILITIES**

This utility work schedule is complete and acceptable to FDOT.

FDOT Rep. \_\_\_\_\_ Date \_\_\_ / \_\_\_ / \_\_\_  
 Name Ileana Guillen Alvarez  
 Title Construction Project Administrator II

**SECTION A: SUMMARY OF UTILITY WORK**

The below days are the total numbers of days shown for all activities in Section C of this utility work schedule. The breakdown of how these days are to be incorporated into the FDOT project and the dependence of these days upon the completion of other activities by the UAO or others is shown in Section C.

Days prior to FDOT project construction: 0  
 Days during FDOT project construction: 180

Approved  
2019-H-691-00348  
Elizabeth Jett  
9/28/2022

Financial Project ID: Entered on page 1  
Utility Company: : Entered on page 1  
FDOT Plans Dated: Entered on page 1

**SECTION B: UAO SPECIAL CONDITIONS/CONSTRAINTS**

- 1) FPL IS A MEMBER OF SUNSHINE STATE ONE CALL OF FLORIDA. LOCATES SHALL BE PROVIDED UPON NOTIFICATION FROM SUNSHINE ONE CALL WITH A LOCATE TICKET NUMBER.
- 2) FDOT'S CONTRACTOR MUST MAINTAIN CLEARANCES, AS REQUIRED BY OSHA, WHEN WORKING IN THE PROXIMITY OF FPL'S HIGH-VOLTAGE TRANSMISSION CONDUCTORS & LOW VOLTAGE DISTRIBUTION CONDUCTORS. OVERHEAD ELECTRICAL FACILITIES TO REMAIN ENERGIZED AND IN PLACE DURING CONSTRUCTION. TABLE A MINIMUM CLEARANCE DISTANCES SPECIFIED IN SUBPART CC OF OSHA RULE 1926 (AS THEY PERTAIN TO CRANE/DERRICK OPERATIONS), AND/OR THOSE MINIMUM DISTANCES SPECIFIED IN 29 CFR 1910.333 (C) (3) (i)(A) AND (iii)(A) FOR WORK IN PROXIMITY TO POWER LINES NOT COVERED BY THIS SUBPART CC, MUST BE MAINTAINED."
- 3) THE ROADWAY CONTRACTOR MUST MAINTAIN OR ENABLE ACCESS TO ALL FPL FACILITIES AT ALL TIMES DURING CONSTRUCTION, AND PROVIDE PROPER TRAFFIC CONTROL AROUND FPL FACILITIES DURING CONSTRUCTION. IF ANY TRAFFIC CONTROL AND/OR TRAFFIC RE-ROUTING IS REQUIRED FOR THE ROAD CONSTRUCTION, PROPER ACTION MUST BE TAKEN BY THE FDOT ROAD CONSTRUCTION CONTRACTOR TO PROTECT IN PLACE EXISTING FPL TRANSMISSION FACILITIES.
- 4) WHEN EXCAVATING IN THE VICINITY OF FPL FACILITIES (POLES, ANCHORS, UNDERGROUND CABLES/CONDUITS, ETC.), THE FDOT CONTRACTOR SHOULD EMPLOY THE CONSTRUCTION TECHNIQUES NECESSARY TO PROTECT FPL FACILITIES IN PLACE FROM DAMAGE OR DISPLACEMENT.
- 5) ALL EXISTING FACILITIES MUST REMAIN IN PLACE AND ENERGIZED UNTIL NEW FACILITIES ARE INSTALLED AND OPERATIONAL.
- 6) ALL WORK TO BE COMPLETED DURING NORMAL FPL DAYLIGHT WORKING HOURS (8:00AM TO 4:00PM MONDAY-FRIDAY). NIGHT WORK (HOURS OUTSIDE OF THE ABOVE STATED FRAME), IF NECESSARY, WILL BE GOVERNED BY THE PERMITTING AGENCY. FPL'S RESOURCES ARE CONSTRAINED TO PRECLUDE COMPLETION OF FPL'S WORK IN ANY TIME-FRAME OTHER THAN AS DESCRIBED IN THIS UWS FOR THIS PROJECT.
- 7) FPL CANNOT BE HELD LIABLE FOR ANY CONSTRUCTION DELAYS AS A RESULT OF ANY DESIGN / SCHEDULING DEVIATION.

**NOTE:**

- 1. Permittee must coordinate before schedule start date with FDOT project team due to possible conflict with MOT.
- 2. Construction 01/03/2023 through 07/02/2023.

**FDOT project team:**

**Project Administrator: Alvarez, Ileana. Alvarez@dot.state.fl.us Cell: 305-978-4977**  
**Project Manager: Garzia, John M. John.Garzia@dot.state.fl.us Cell: 786-510-6822**

Approved  
2019-HI-691-00348  
Elizabeth Jett  
9/28/2022

FLORIDA DEPARTMENT OF TRANSPORTATION  
**UTILITY WORK SCHEDULE**

December 14, 2016

Financial Project ID: Entered on page 1  
 Utility Company: Entered on page 1  
 FDOT Plans Dated: Entered on page 1

**SECTION C: UAO's WORK ACTIVITIES**

Act. No.	Utility Facility (type, size, material, status)	From Station/Offset	To Station/Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days	
							Prior to Const.	During Const.
1	FPL Transmission 69kV Underground Line	218 + 00	218 + 00	FPL will be installing new manholes and a new underground 69kV transmission line	Coordination with FDOT for site access and MOT	N/A	0	180

Approved  
 2019-H-691-00348  
 Elizabeth Jett  
 9/28/2022

**UTILITY PERMIT**

**PERMIT NO:** 2019-H-691-00348

**STATE ROAD INFORMATION**

<b>County:</b> Miami-Dade	<b>Section:</b> 87060000	<b>State Road No:</b> SR A1A	<b>Beginning Mile Post:</b> 3.027	<b>Ending Mile Post:</b> 3.027
------------------------------	-----------------------------	---------------------------------	--------------------------------------	-----------------------------------

**APPLICANT INFORMATION**

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

<u>Utility Agency/Owner (UAO)</u>		<u>Utility Builder (only applicable when the UAO is a City or County)</u>	
Name:	<u>FLORIDA POWER &amp; LIGHT-JUNO</u>	Name:	_____
Contact Person:	<u>FLORIDA POWER &amp; LIGHT-JUNO</u>	Contact Person:	_____
Address:	<u>700 UNIVERSE BOULEVARD (TS4/JW)</u>	Address:	_____
City:	<u>JUNO BEACH</u>	City:	_____
State:	<u>Florida</u>	State:	_____
Zip:	<u>33408</u>	Zip:	_____
Telephone:	<u>5619043692</u>	Telephone:	_____
Email:	<u>rafael.e.vides@fpl.com</u>	Email:	_____

**WORK DESCRIPTION**

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

**Install new 69kV underground transmission line between Miami Beach Substation and Alton Substation located along MacArthur Causeway (SR-A1A) west of Alton Road in Miami-Dade County, Florida.  
Miami Beach-Alton 69kV Underground Transmission Line. FPL IO# T00000017065.**

Utility Work No: \_\_\_\_\_

Additional sheets are attached and are incorporated into this permit Yes  No

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes  No

**TRAFFIC CONTROL (TCP)**

The TCP will comply with the following 600 series index(es) 613

A TCP has been attached and incorporated into this permit application in compliance with UAM Section 2.4.2.

MOT Technician's contact information (may be supplied at the two (2) business day notification to FDOT):

Name: Seyed Hajassadollah Telephone (305) 495-8601 ext. \_\_\_\_\_ Email: Seyed.Hajassadollah@fpl.com

**COMMENCEMENT OF WORK**

The UAO and/or Utility Builder shall commence actual construction in good faith within sixty (60) calendar days after approval of the permit application. If the beginning date is more than sixty (60) calendar days from the date of approval, the UAO and/or Utility Builder must review the permit with the FDOT Approving Engineer listed to make sure no changes have occurred to the transportation facility that would affect the permit's continued approval. The UAO and/or Utility Builder shall make good faith efforts to expedite the work and complete the work within the calendar days indicated.

Anticipated Start Date: 5/1/2020

Calendar days needed to completed: 365

Approved  
2019-H-691-00348  
Leonard Salazar  
9/9/2020

Florida Department of Transportation  
**UTILITY PERMIT**

**PERMIT NO:** 2019-H-691-00348

**APPLICANT SIGNATURE**

By the below signature(s) the UAO and/or Utility Builder agree(s) to construct, operate, and maintain the work as noted in the above Work Description, shown in plans and incorporated documents, in compliance with the UAM, all instructions noted in the FDOT Special Instructions Box, and special instructions incorporated into this permit. The UAO and/or Utility Builder declares, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans of the work areas. In accordance with UAM Section 2.8, the UAO and/or Utility Builder further declares that a letter of notification was delivered to the owners of other facilities within the work areas and that those listed below are the only facility owners known to be involved or potentially impacted by the proposed work.

Date Notified: <u>2/13/2020</u>	Name of other facility owners (attach additional sheets if necessary). <u>AT&amp;T</u>
<u>2/13/2020</u>	<u>Atlantic Broadband</u>
<u>2/13/2020</u>	<u>Comcast Cable</u>
<u>2/13/2020</u>	<u>Crown Castle</u>
<u>2/13/2020</u>	<u>Hotwire</u>

Utility Agency/Owner

Utility Builder (when applicable)

Signature: RAFAEL VIDES (digital signature) Date: 8/16/2019  
 Name (printed): RAFAEL VIDES  
 Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Name (printed): \_\_\_\_\_  
 Title: \_\_\_\_\_

**FDOT PROJECT INFORMATION**

Pursuant to UAM Section 2.1(10), the utility work is within FDOT projects listed below and must have a Utility Work Schedule for each project approved prior to commencement of work within the FDOT project limits:

**There are NO FDOT constructions (proposed or underway).  
This work is NOT related to an approved utility work Schedule.**

**FDOT SPECIAL INSTRUCTIONS**

In accordance with UAM Section 2.7, FDOT incorporates the below and attached special instructions into this permit.

**Special Provisions for Utility Permit No. 2019-H-691-00348**

**Section: 87060/ SR: A1A / FLORIDA POWER & LIGHT**

**\_SEE ATTACHMENTS**

**\_WORK WITHIN THE F.D.O.T. RIGHT OF WAY SHALL**

**CONFORM TO CURRENT F.D.O.T. STANDARDS AND**

**SPECIFICATIONS**

**\_Permit APPROVAL IN NO WAY CONSTITUTES THAT THE PERMITTED HAS AN APPROVED LANE**

Additional FDOT Special Instructions are attached and incorporated into this permit. Yes  No

**PERMIT APPROVAL**

By signature below, FDOT gives permission to the UAO and /or Utility Builder to construct, operate, and maintain the utilities indicated in this Utility Permit in compliance with the UAM, all incorporated documents, and special instructions. Any changes to the approved work must be approved by the FDOT's Approving Engineer and attached and incorporated into this permit in accordance with UAM Section 2.11.

Approving Engineer: Leonard Salazar (digital signature) Date: 9/9/2020  
 Name: Leonard Salazar  
 Title: DEPUTY DISTRICT MAINTENANCE ENGINEER

Notification of Utility Work to be provided to: Telephone (305) 603-7664 ext. \_\_\_\_\_ or Email: Alberto.Sua@dbiservices.com

An FDOT Representative is required to be present on the worksite prior to commencement of work. Yes  No

Rep. Name: Alberto Sua Telephone 3056037664 Email: alberto.sua@dbiservices.com

Approved  
2019-H-691-00348  
Leonard Salazar  
9/9/2020



Florida Department of Transportation  
**UTILITY PERMIT**

**PERMIT NO:** 2019-H-691-00348

**CERTIFICATION**

I, the undersigned UAO and/or Utility Builder, hereby CERTIFY that the utilities were constructed and inspected in compliance with the UAM all incorporated documents, and special instructions. Pursuant to UAM Section 2.11, all changes have been approved by the FDOT's Approving Engineer and incorporated into this permit along with all other material certifications, test results, bore logs, approved plans changes, as-built plans or other required documentation.

I also CERTIFY that work began on \_\_\_\_\_ and was completed on \_\_\_\_\_ and that the area was left in as good or better condition than when the work began.

Utility Agency/Owner

Utility Builder (when applicable)

Signature: \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_ Date \_\_\_\_\_

Name (printed): \_\_\_\_\_

Name (printed): \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

**FINAL INSPECTION OF WORK**

The work was inspected and found to be in non-compliance as noted below:

All issues of non-compliance listed above have been brought into compliance and/or FDOT has no outstanding issues that need to be addressed by the UAO and/or Utility Builder. However, this final inspection does not release the UAO and/or Utility Builder of their continuing responsibilities pursuant to Rule 14-46.001, the UAM, all incorporated documents, and special instructions.

FDOT Inspector: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Approved  
2019-H-691-00348  
Leonard Salazar  
9/9/2020

**PERMIT NO.:** 2019-H-691-00348

**STATE ROAD INFORMATION:**

Miami-Dade SR A1A, Section: 87060000, Begin MP: 3.027, End MP: 3.027, Miami-Dade SR A1A, Section: 87060000, Begin MP: 2.547, End MP: 2.547

**NAME OF OTHER FACILITY OWNERS / DATE NOTIFIED:**

Facility Name: Miami Beach Public Works, Date Notified: 2/13/2020, Facility Name: Miami Dade County Public Works, Date Notified: 2/13/2020, Facility Name: TECO Peoples Gas, Date Notified: 2/13/2020, Facility Name: Verizon Enterprise Solutions, Date Notified: 2/13/2020

**FDOT PROJECT INFORMATION:**

There are NO FDOT constructions (proposed or underway).  
This work is NOT related to an approved Utility Work Schedule.

**THE WORK WAS INSPECTED AND FOUND TO BE IN NON-COMPLIANCE AS NOTED BELOW:**

Approved  
2019-H-691-00348  
Leonard Salazar  
9/9/2020

**Special Provisions for Utility Permit No. 2019-H-691-00348**

**Section: 87060/ SR: A1A / FLORIDA POWER & LIGHT**

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1. Permit ***APPROVAL IN NO WAY CONSTITUTES THAT THE PERMITTED HAS AN APPROVED LANE CLOSURE***. Please coordinate a pre-construction meeting with MR. Alberto Sua at (305) 603-7664, (305) 781-7956, Email: [Alberto.Sua@dbiservices.com](mailto:Alberto.Sua@dbiservices.com), a minimum of two (2) weeks prior to beginning of work within the F.D.O.T. Right-of-Way.
2. **Do a subsurface investigation to locate the utilities and the seawall anchors along the seawalls on the west end of Bridge 870077 for any construction within 20 ft of the seawall. Submit the final layout to FDOT Bridge Maintenance for approval prior to construction.**
3. **Provide a signed and sealed geotechnical evaluation, including an evaluation of the effects on the wall and provide design plans of any temporary retaining walls needed to construct the vault. Submit to FDOT Bridge Maintenance for approval prior to construction.**
4. **Coordinate with the City of Miami Beach for the DB depth under the proposed Pedestrian Bridge at the east end of Bridge 8700077 since there may be changes to the proposed design.**
5. **There is a bus stop near the proposed work. Please ensure to coordinate with Miami-Dade Transit for any bus stop impacts due to lane closure caused by the proposed work.**
6. **Ensure appropriate erosion control devices are in place before any construction begins and are used throughout the duration of construction.**
7. **The proposed project area is adjacent to the Biscayne Bay Aquatic Preserves, which is designated Outstanding Florida Waters. No degradation of water quality, increased turbidity of the water, and/or the discharge of any foreign material into the water shall be permitted.**
8. **The Permittee shall assure that any actions carried out are in accordance with all environmental regulatory requirements.**
9. **Several contaminated sites located within a 500-foot radius of the project have been identified. The Permittee shall assure that any actions carried out are in accordance with all environmental regulatory requirements.**
10. **Direct discharge to the Biscayne Bay, an outstanding Florida Water is prohibited. The FDOT drainage system outfalls to the intercostal waterway, therefore the Permittee cannot use the FDOT drainage system to discharge dewatering effluent. The overflow effluent, if any, needs to be controlled on-site and can NOT be discharged to an FDOT drainage system.**
11. **Proposed handhole should be installed as per FDOT 2019-20 Standard Index No. 635-001.**
12. **Restoration of Sodding and turf should be done according to FDOT 2019-20 Design Standards Index 570-010.**
13. **Do not stage construction or perform surface operations within the drip line if existing canopy trees or palms. For any surface work within the drip line of existing trees, provide protection during construction per FDOT Standard Plans Index 110-100 and FDOT Specification 110.**
14. Submit a detailed lane closure form, noting work and time phases thru the Lane Closure Information System (LCIS) at <http://www.fdotlcis.com/closures.aspx> . The lane closure request shall be approved by the Department at least 2 weeks prior to beginning work within the FDOT Right of Way. **There shall be no lane closures (Unless approved by the District Maintenance Engineer /or the District Maintenance of Traffic Specialist) from Thanksgiving Day to New Year's Day,**

## Special Provisions for Utility Permit No. **2019-H-691-00348**

### Section: **87060/ SR: A1A / FLORIDA POWER & LIGHT**

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due to Moratorium.

15. The Department reserves the right to access any portion of the State Right-of-Way as necessary for maintenance, construction or monitoring activities. There may be a Department Representative on location, which will reserve the right to increase or decrease the approved time frames. *If the Permittee's operations interfere with any current or future FDOT projects, the Permittee shall abide to the conditions of the Department Project Manager.*
16. When the Permittee's operations encounter or expose any abnormal condition which may indicate the presence of a hazardous waste, toxic waste, or contaminants, such operations shall cease immediately in the vicinity of the abnormal condition and Permittee **shall notify the Department's inspector and Ms. Maria Salgado of the District VI Environmental Management Office at 1000 N.W. 111 Ave., Miami, Florida 33172 (telephone number 305-470-5138). Every effort shall be made by the Permittee to minimize the spread of any contamination into uncontaminated areas.** Under no circumstances will the Permittee resume operations in the affected area until so directed by the Department's inspector. The Permittee shall assure that any actions carried out during permit activities are in accordance with all environmental agency requirements and provide the Department copies of deliverables submitted to environmental regulatory agencies. **The reports are to be submitted to the District Contamination Impact Coordinator at 1000 N.W. 111 Ave. (room # 6109), Miami, FL 33172-5800.**
17. Permittee will be required issuance of a Certificate to Dig prior to any ground-disturbing activity such as directional boring, trenching, drainage installation, landscaping, or road reconstruction in which case's operations are within highly sensitive archaeological zones in the City of Miami. Permittee shall notify **Ms. Megan McLaughlin, AICP, City of Miami Planning and Zoning Department, Preservation Officer** at 444 SW 2nd Avenue 3rd Floor, Miami, FL 33130, at 305-416-1453, fax: 305-416-2156, email: [mmclaughlin@miamigov.com](mailto:mmclaughlin@miamigov.com). A map of the Archaeological Conservation Areas that identifies areas of probability maybe download at <http://maps.miamigis.com/miamizoningsite/>.
18. Access to remain open at all times. The Permittee shall provide and maintain safe temporary access to all adjacent property at all times and shall maintain accommodations for intersecting and crossing traffic within the construction zone. No road or street crossing shall be blocked or unduly restricted as determined by the engineer. *Property owner must be notified seven (7) days in advance when open cutting of existing paved driveway by the permitted.*
19. A copy of this permit and plans will be on the job site at all times during the construction of this facility.
20. Validity of this permit is contingent upon Permittee obtaining necessary permits from all other agencies involved.
21. Any hand-hole / pull-box located within a grass area shall be installed with a 1'x 1' (min.) concrete pad. Proposed hand holes / pull boxes may not be located within existing driveways or pedestrian ramps.
22. *The use of steel plates will be at the discretion of the Department Representative.* If the Permittee is proposing to use steel plates, a structural analysis must be submitted prior to installation to determine the stability of the plates and approved by the Department Representative. All plates shall be secured in place with railroad spikes and compacted asphalt and must be removed within 24-hours of installation. Locations for plate installations shall not exceed fifty (50) feet in length.
23. SIDEWALK SHALL BE RESTORED WITH FULL 4 INCHES THICK FLAGS WITH EXPANSION MATERIAL AND DETECTABLE DOMES FOR HANDICAP RAMPS ACCORDING TO THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS – INDICES 300, 304, AND 310 (CURRENT EDITION) AND CONSTRUCTED ACCORDING TO THE F.D.O.T. STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION – SECTION 522.
24. IN THE EVENT THAT THE ROADWAY PAVEMENT IS DAMAGED, IT SHALL BE RESTORED **50-FT. AT EITHER SIDE AND AT FULL LANE WIDTH** TO MATCH OR EXCEED EXISTENT CONDITIONS AND IN ACCORDANCE WITH THE DEPARTMENT'S DESIGN STANDARDS AND SPECIFICATIONS. PAVEMENT RESTORATION SCOPE AND METHOD WILL BE AS DIRECTED IN THE FIELD BY THE DEPARTMENT REPRESENTATIVE. DAMAGED PAVEMENT WILL BE RESTORED AT THE EXPENSE OF THE PERMITTEE.
25. Final restoration shall be coordinated with the Department Representative. All portions of the State Right-of-Way disturbed in the construction of the proposed work shall be restored to F.D.O.T. Specifications within thirty (30) days upon completion of the permitted installation. As-Built and or Bore Log shall be submitted within 30 days of work being completed, or permit will be closed out as non-compliant.

**Special Provisions for Utility Permit No. 2019-H-691-00348**

**Section: 87060 / SR: A1A / FLORIDA POWER & LIGHT**

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26. If F.D.O.T. roadway improvements have commenced or recently been completed prior to the installation of the work approved under this permit, this permit shall become void.
27. **AS-BUILTS SHALL BE RECEIVED WITHIN 30 DAYS OF THE COMPLETION OF THE WORK.**
28. **Beginning any work within the F.D.O.T. Right-of-Way associated with this permit constitutes acceptance of these conditions.**
29. Tree protection shall be installed per Index 542 to ensure no equipment within tree root zone. Ensure any damage to existing landscape be restored to existing or better condition. If sod is damaged during construction, it must be replaced and maintained until the sod is established. The permit will remain open until this is accomplished.

Approved  
2019-H-691-00348  
Leonard Salazar

**WORK WITHIN THE  
F.D.O.T.  
RIGHT OF WAY SHALL  
CONFORM TO CURRENT  
F.D.O.T. STANDARDS  
AND SPECIFICATIONS**

MDC086

Approved  
2019-H-691-00348  
Leonard Salazar  
9/9/2020

**Attachment B**  
**Owner/Agent Letter, Engineer Letter, and Project Sketches**

**PERMIT APPLICANT / AUTHORIZED AGENT STATEMENT**

Date: 8-12-21

Miami Dade County Department of Regulatory and Economic Resources  
Class I Permitting Program  
701 NW 1<sup>st</sup> Court  
Miami, FL 33136

Re: Class I Standard Form Permit Application Number CLI-2021-0065

By the attached Class I Standard Form permit application with supporting documents, I, Michael Harrington, am the authorized agent and hereby request permission to perform the work associated with Class I Permit Application CLI-2021-0065. I understand that a Miami-Dade County Class I Standard Form Permit is required to perform this work.

If approval is granted for the proposed work by the Board of County Commissioners, complete and detailed plans and calculations of the proposed work shall be prepared by an engineer licensed in the State of Florida in accordance with the minimum requirements of Chapter 24 of the Code of Miami-Dade County, Florida. Said plans and calculations shall be subject to the review and approval of the Department. The permit applicant will secure the services of an engineer licensed in the State of Florida to conduct inspections throughout the construction period, and said engineer shall prepare all required drawings of record. In the event that the proposed work which is the subject of this Class I Permit application involves the cutting or trimming of a mangrove tree(s), a detailed plan of the proposed cutting or trimming shall be prepared by a licensed landscape architect and submitted to the Department for review and approval, and the permit applicant will secure the services of a licensed landscape architect to supervise the trimming or cutting.

Respectfully submitted,



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Michael Harrington, Authorized Agent





POWER ENGINEERS, INC.  
16011 COLLEGE BOULEVARD  
SUITE 130  
LENEXA, KS 66219 USA

PHONE 913-304-7900  
FAX 913-304-7999

## **ENGINEER LETTER OF CERTIFICATION**

August 16, 2021

Miami-Dade County Department of Regulatory and Economic Resources  
Class I Permitting Program  
701 NW 1st Court Miami,  
Florida 33136

RE: Class I Standard Form Permit Application Number CLI-2021-0065

Ladies and Gentlemen:

This letter will certify that I am an engineer licensed in the State of Florida, qualified by education and experience in the area of engineering design and inspection, and that to the best of my knowledge and belief, the proposed work does not violate any laws, rules, or regulations of the State of Florida or any provisions of the Code of Miami-Dade County which may be applicable; that diligence and recognized standard practices of the engineering profession have been exercised in the engineer's design of the proposed work; and in my opinion based upon my knowledge and belief, the following will not occur:

- a. Harmful obstruction or undesirable alteration of the natural flow of the water within the area of the proposed work.
- b. Harmful or increased erosion, shoaling of channels or stagnant areas of water. (Not applicable to class IV permits)
- c. Material injury to adjacent property.
- d. Adverse environmental impacts from changes in water quality or quantity. (Applicable to class IV permits only)

Miami-Dade County Department of Regulatory and Economic  
Resources Class I Permitting Program

July 23, 2018

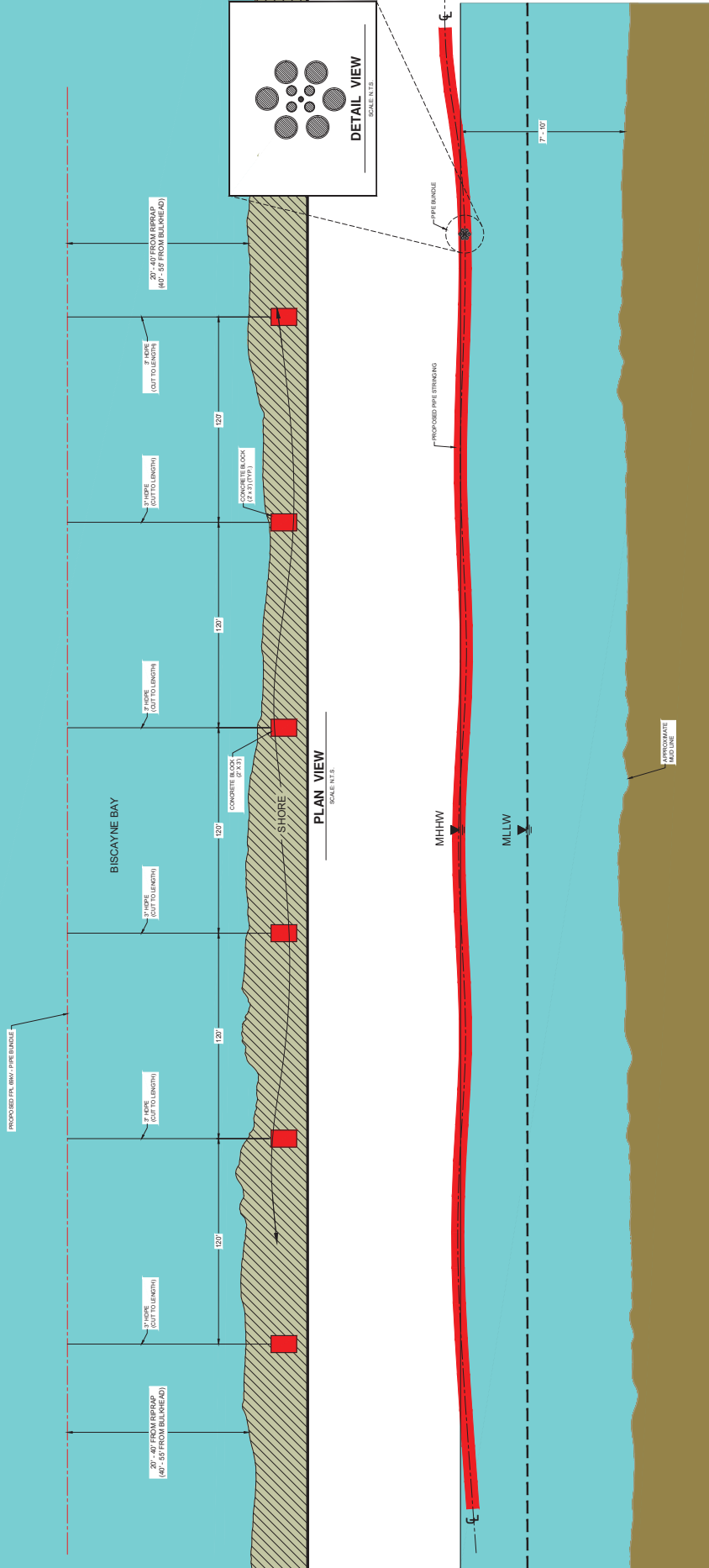
Further, I have been retained by the applicant to provide inspections throughout the construction period and to prepare a set of reproducible record prints of drawings showing changes made during the construction process based upon the marked-up prints, certified surveys, drawings, and other data furnished by the contractor to me.

Sincerely,

A handwritten signature in black ink that reads "Dennis E. Johnson". The signature is written in a cursive style with a large initial "D" and "J".

Dennis E. Johnson, P.E.  
Senior Project Engineer  
POWER Engineers  
P.E. # 69576

MIAMI-DADE, FLORIDA



MDC091



**FLORIDA POWER & LIGHT**  
**MIAMI BEACH TO ALTON & BENTLEY TRANSMISSION LINE**  
**66KV UNDERGROUND TRANSMISSION LINE**  
 MIAMI-DADE COUNTY, FLORIDA

PROJECT: BISCAYNE BAY HOD  
 CONTRACT NO.: 10222000  
 SHEET NO.: 1

DRAWING LEGEND		DRAWING COORDINATE SYSTEM		PIPE SPECIFICATIONS	
---	PROPOSED PIPE STRINGING	1	2	1	2
▲	PROPOSED 12" DIA. PIPE BRIDGE	1	2	1	2
▲	PROPOSED CONCRETE BLOCK	1	2	1	2
▲	PROPOSED 12" PIPE	1	2	1	2
▲	PROPOSED RIPRAP	1	2	1	2
▲	PROPOSED SHORE	1	2	1	2
▲	PROPOSED APPROXIMATE HAD TO LINE	1	2	1	2

NO.	DESCRIPTION	DATE	BY	CHK.
1	ISSUED FOR PERMIT			
2	ISSUED FOR CONSTRUCTION			
3	ISSUED FOR AS-BUILT			

NO.	DESCRIPTION	DATE	BY	CHK.
1	ISSUED FOR PERMIT			
2	ISSUED FOR CONSTRUCTION			
3	ISSUED FOR AS-BUILT			

NO.	DESCRIPTION	DATE	BY	CHK.
1	ISSUED FOR PERMIT			
2	ISSUED FOR CONSTRUCTION			
3	ISSUED FOR AS-BUILT			

NO.	DESCRIPTION	DATE	BY	CHK.
1	ISSUED FOR PERMIT			
2	ISSUED FOR CONSTRUCTION			
3	ISSUED FOR AS-BUILT			

**laney**  
 1100 Allegany Place • Waller, Texas 77484  
 Tel: (281) 540-6615 Fax: (281) 540-6777



**Attachment C**  
**Zoning Memorandum**

# Memorandum



**Date:** December 29, 2022

**To:** McKee Gray, Chief *McKee Gray*  
Natural Resources Division  
Department of Regulatory and Economic Resources

**From:** Rockell Alhale, ERPS *R. Alhale*  
Coastal Resources Section  
Department of Regulatory and Economic Resources

**Subject:** Class I Permit Application and Request for a Variance by Florida Power and Light Company for the Temporary Staging of Transmission Lines in Tidal Waters along the MacArthur Causeway, Miami Beach, Miami-Dade County, Florida.

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Pursuant to Section 24-48.2(II)(B)(7), of the Code of Miami-Dade County, Florida, a substantiating letter shall be submitted by the applicant stating that the proposed project does not violate any zoning laws. Said letter will be submitted after approval by the Miami-Dade County Board of County Commissioners and prior to issuance of the Class I permit.

**Attachment D**  
**DERM Project Report**

**CLASS I PERMIT APPLICATION NO. CLI-2021-0065**

Class I Permit Application and Request for a Variance by Florida Power and Light Company for the Temporary In-water Staging of Transmission Lines in Tidal Waters Along the MacArthur Causeway, Miami Beach, Miami-Dade County, Florida.

**DATE: December 29, 2022**



Staff's recommendation of approval for the above-referenced permit application is based on the applicable evaluation factors under Section 24-48.3 of the Code of Miami-Dade County, Florida (Code). The following is a summary of the proposed project with respect to each applicable evaluation factor:

1. **Potential Adverse Environmental Impact**- Pursuant to Section 24-48.4 of the Code, potential adverse environmental impacts and cumulative adverse environmental impacts for a proposed project must be avoided and minimized and mitigation is required for permissible projects that otherwise result in adverse environmental impacts. In order to avoid impacts to existing benthic resources, including seagrasses, the floating conduits would be tethered to anchors located on the uplands and no structures other than the floating conduits are proposed to be installed within tidal waters. Furthermore, the project has been designed to maintain sufficient clearance between the floating conduits and any existing benthic resources. Additionally, the tethers and conduits would be inspected on a daily basis to ensure that no marine organisms or debris have become entangled in the lines. Due to the temporary nature of the project, long-term shading impacts to seagrasses are not reasonably anticipated, and pre- and post-event benthic surveys would be conducted to verify whether any unanticipated impacts occur. Therefore, no mitigation would be required for the subject application.

The proposed work is not reasonably expected to result in cumulative environmental impacts to water quality; however, the construction phase of the proposed project may result in temporary water quality impacts. In order to minimize the temporary impacts to water quality as a result of the construction activities associated with the proposed work, the Class I permit would require that turbidity controls be utilized during all phases of construction to ensure compliance with State and County water quality standards.

2. **Potential Cumulative Adverse Environmental Impact** – The proposed project is not reasonably expected to result in cumulative adverse environmental impacts as set forth in Number 1 above.
3. **Hydrology** - The proposed project is not reasonably expected to adversely affect surface water drainage or retention of stormwater.
4. **Water Quality** – The proposed project may affect surface water quality on a temporary basis during staging operations; however, the impacts will be minimized as set forth in Number 1 above.
5. **Wellfields** – The proposed project is not reasonably expected to adversely affect wellfields.
6. **Water Supply** – The proposed project is not reasonably expected to adversely affect water supply.
7. **Aquifer Recharge** – The proposed project is not reasonably expected to adversely affect aquifer recharge.
8. **Aesthetics** – The proposed project is not reasonably expected to adversely affect aesthetics.

9. **Navigation** – The temporary in-water staging of the conduit bundle would be located parallel to the riprap shoreline along the north side of the MacArthur Causeway. The work is not proposed within or adjacent to navigational channels and each tether would have a marine light attached that would be illuminated at night to alert vessels to the presence of the structures. Therefore, the proposed project is not reasonably expected to adversely affect navigation.
10. **Public Health** - The proposed project is not reasonably expected to adversely affect public health.
11. **Historic Values** - The proposed project is not reasonably expected to adversely affect historic values.
12. **Archaeological Values** - The proposed project is not reasonably expected to adversely affect archaeological values.
13. **Air Quality** – The proposed project is not reasonably expected to adversely affect air quality.
14. **Marine and Wildlife Habitats** – The proposed project is not reasonably expected to adversely affect marine and wildlife habitats, as set forth in Number 1 above.
15. **Wetland Soils Suitable for Habitat** – The proposed project does not involve any work in wetland soils.
16. **Floral Values** – The proposed project is not reasonably expected to adversely affect floral values as set forth in Number 1 above.
17. **Fauna Values** - The proposed project is not reasonably expected to adversely affect fauna values as set forth in Number 1 above.
18. **Rare, Threatened and Endangered Species** – The proposed project is not reasonably expected to adversely affect rare, threatened and endangered species. The proposed project site is not located within an area designated as essential manatee habitat for the West Indian Manatee by the MPP. The Class I permit would require that all standard manatee construction permit conditions be followed during all in-water operations.
19. **Natural Flood Damage Protection** - The proposed project is not reasonably expected to adversely affect surface water drainage or retention of stormwater.
20. **Wetland Values** – The proposed project does not involve work in wetlands.
21. **Land Use Classification** – Pursuant to Section 24-48.2(II)(B)(7) of the Code of Miami-Dade County, Florida, a substantiating letter stating that the proposed project does not violate any zoning laws, or a plan approval, would be submitted prior to permit issuance. Said letter or plan approval would be submitted after the approval by the Board of County Commissioners and prior to the issuance of a Class I permit.

22. **Recreation** - The proposed project does not conflict with the recreation element of the Miami-Dade County Comprehensive Development Master Plan.
23. **Other Environmental Values Affecting the Public Interest** – The proposed project is not reasonably expected to adversely affect other environmental values affecting the public interest. The proposed project will occur on lands owned by the State of Florida and authorization for use of the subject submerged lands has been obtained.
24. **Conformance with Standard Construction Procedures and Practices and Design and Performance Standards** – The staging of construction materials in tidal waters does not have a water-dependent use and is prohibited pursuant to Section 24-48.23 of the Code. However, Section 24-48.25 provides for applications for variances to the prohibition of non-water-dependent floating structures to be heard and ruled upon by the Board. The applicant is requesting a variance to the water dependency requirement of the Code, and the proposed structures are not reasonably expected to result in adverse environmental impacts.
25. **Comprehensive Environmental Impact Statement (CEIS)** - In the opinion of the Director, the proposed project is not reasonably expected to result in significant adverse environmental impacts or cumulative adverse environmental impacts. Therefore, a CEIS was not required by DERM to evaluate the project.
26. **Conformance with All Applicable Federal, State and Local Laws and Regulations** - The proposed project is in conformance with applicable State, Federal and local laws and regulations:
- a) Chapter 24 of the Code of Miami-Dade County
  - b) United States Clean Water Act (US Army Corps of Engineers permit is required)
  - c) Florida Department of Environmental Protection (Regulatory permit has been obtained. See Attachment E).
27. **Conformance with the Miami-Dade County Comprehensive Development Master Plan (CDMP)** - In the opinion of the Director, the proposed project is consistent as required by CDMP policy LU-3A, with the goals, objectives and policies contained in the Conservation, Aquifer Recharge and Drainage and Coastal Management Elements of this Plan, and with all applicable environmental regulations, as well as other elements of the CDMP. The following is a summary of the proposed project as it relates to the CDMP:

#### **LAND USE ELEMENT I:**

**Objective 3/Policies 3B, 3C** - Protection of natural resources and systems. – The proposed project is consistent with all applicable environmental regulations, is compatible with surrounding land uses in Biscayne Bay and does not involve development in the Big Cypress area of Critical State Concern or the East Everglades.

#### **TRANSPORTATION ELEMENT II**

**Aviation Subelement/Objective AV-5A** - Aviation System Expansion - There is no aviation element to the proposed project.

**Port of Miami River Subelement/Objective 3** - Minimization of impacts to estuarine water quality and marine resources. The proposed project is not located within the Miami River.

**CONSERVATION, AQUIFER RECHARGES AND DRAINAGE ELEMENT IV:**

**Objective 3/Policies 3A, 3B, 3D** - Wellfield protection area protection. - The proposed project is not located within a wellfield protection area.

**Objective 3/Policy 3E** - Limestone mining within the area bounded by the Florida Turnpike, the Miami-Dade/ Broward Levee, N.W. 12 Street and Okeechobee Road. - The proposed project is not located within this area.

**Objective 4/Policies 4A, 4B, 4C** - Water storage, aquifer recharge potential and maintenance of natural surface water drainage. - The proposed project is not reasonably expected to adversely affect water storage, aquifer recharge potential or natural surface water drainage.

**Objective 5/Policies 5A, 5B, 5F** - Flood protection and cut and fill criteria – The proposed project will not compromise flood protection.

**Objective 6/Policy 6A** - Areas of highest suitability for mineral extraction. - The proposed project is not located in an area proposed or suitable for mineral extraction.

**Objective 6/Policy 6B** - Guidelines for rock quarries for the re-establishment of native flora and fauna.– The proposed project is not located in a rock quarry.

**Objective 7/Policy 7A, 7C, 7D, 7J** - Wetland protection and restoration. – The proposed project is not located within a wetland.

**Objective 9/Policies 9A, 9B, 9C** - Protection of habitat critical to Federal or State-designated threatened or endangered species. – The proposed project is not reasonably expected to adversely affect habitat critical to Federal or State-designated threatened or endangered animal species, and the impacts have been minimized as set forth in Number 1 above.

**COASTAL MANAGEMENT ELEMENT VII:**

**Objective 1/Policy 1A** – Mangrove wetlands within Mangrove Protection Areas – The proposed project is not located within a designated “Mangrove Protection Area.”

**Objective 1/ Policy 1B** - Natural surface flow into and through coastal wetlands. – The proposed project is not located within coastal wetlands.

**Objective 1/ Policy 1C** - Elevated boardwalk access through mangroves. – The proposed project does not involve the construction of an elevated walkway through mangroves.

**Objective 1/Policy 1D** - Protection and maintenance of mangrove forests and related natural vegetational communities. - The proposed project is not located within a mangrove forest or related natural vegetational community.

**Objective 1/Policy 1E** - Mitigation for the degradation and destruction of coastal wetlands. Monitoring and maintenance of mitigation areas. – The proposed project is not located within coastal wetlands.

**Objective 1/Policy 1G** - Prohibition on dredging or filling of grass/algal flats, hard bottom or other viable benthic communities, except as provided for in Chapter 24 of the Code of Miami-Dade County, Florida. - The proposed project does not involve dredging or filling of grass/algal flats, hard bottom, or other viable benthic communities.

**Objective 2/Policies 2A, 2B** - Beach restoration and renourishment objectives. - The proposed project does not involve beach restoration or renourishment.

**Objective 3/Policies 3E, 3F** - Location of new cut and spoil areas for proper stabilization and minimization of damages. - The proposed project does not involve the development or identification of new cut or spoil areas.

**Objective 4/Policy 4A, 4C, 4E, 4F** – Protection of endangered or threatened animal species. – The proposed project is not reasonably expected to result in impacts to endangered or threatened species as set forth in Number 18 above.

**Objective 5/Policy 5B** - Existing and new areas for water-dependent uses. - The proposed project is not reasonably expected to adversely affect existing water-dependent uses.

**Objective 5/Policy 5D** - Consistency with Chapter 33D, Miami-Dade County Code. (shoreline access, environmental compatibility of shoreline development) – The proposed project site is not located within the Shoreline Development Review boundaries; therefore, the thresholds for review by the Shoreline Development Review Committee under the Shoreline Ordinance do not apply and the proposed project is not subject to shoreline development review.

**Objective 5/Policy 5F** - The siting of water dependent facilities. - The project includes a non-water-dependent use. However, the applicant is requesting a variance to the water dependency requirement of the Code. In addition, the proposed project is not reasonably expected to result in adverse environmental impacts as set forth in Number 1 above.

28. **Conformance with Chapter 33B, Code of Miami-Dade County** (East Everglades Zoning Overlay Ordinance) – The proposed project is not located within the East Everglades Area.

29. **Conformance with Miami-Dade County Ordinance 81-19** (Biscayne Bay Management Plan Sections 33D-1 through 33D-4 of the Code of Miami-Dade County) - The project includes a non-water-dependent use that is not in full conformance with the Biscayne Bay Management Plan. However, the applicant is requesting a variance to the water dependency requirement of the Code. In addition, the proposed project is not reasonably expected to result in adverse environmental impacts as set forth in Number 1 above.

30. **Conformance with the Miami-Dade County Manatee Protection Plan (MPP)** - The proposed project site is not located within an area designated as essential manatee habitat for the West Indian Manatee by the MPP; however, the Class I permit will require that all standard manatee construction permit conditions be followed during all in-water operations.
31. **Consistency with Miami-Dade County Criteria for Lake Excavation** – The proposed project does not involve lake excavation.
32. **Municipality Recommendation** – Pursuant to Section 24-48.2(II)(B)(7), Code of Miami-Dade County, Florida, a substantiating letter shall be submitted stating that the proposed project does not violate any zoning laws. Said letter will be submitted after the approval by the Board of County Commissioners and prior to the issuance of the Class I permit.
33. **Coastal Resources Management Line** - A coastal resources management line was not required for the proposed project, pursuant to Section 24-48.2(II)(B)(10)(b) of the Code of Miami-Dade County.
34. **Maximum Protection of a Wetland's Hydrological and Biological Functions** – The proposed project is not located within a wetland.
35. **Class I Permit Applications Proposing to Exceed the Boundaries Described in Section D-5.03(2)(a) of the Miami-Dade County Public Works Manual** – Not applicable.

The proposed project was also evaluated for compliance with the standards contained in Sections 24-48.3(2), (3), and (4) of the Code of Miami-Dade County, Florida. The following is a summary of how the standards relate to the proposed project:

**24-48.3 (2) Dredging and Filling for Class I Permit** – Not Applicable.

**24-48.3 (3) Minimum Water Depth Required for Boat Slips Created by the Construction or Placement of Fixed or Floating Docks and Piers, Piles and Other Structures Requiring a Permit Under Article IV, Division 1 of Chapter 24 of the Code of Miami-Dade County** – The proposed project complies with Section 24-48.3(3) of the Code of Miami-Dade County. Although no structures for mooring are being proposed, all vessels associated with construction would be required to operate in sufficient water depth pursuant to the conditions of the Class I permit.

**24-48.3 (4) Clean Fill in Wetlands** – Not applicable.

The project was also evaluated based upon the applicable factors set forth in Section 24-48.25 of the Code.

36. **Visual or physical access by the general public to Biscayne Bay and its adjacent tidal waters** – The proposed project is temporary in nature and is not reasonably expected to impact visual or physical access to the adjacent waters.
37. **Historical significance** – The proposed project is not historically significant.
38. **Need for covered vessel repair facilities** - Not applicable.

39. **Environmental impact or cumulative environmental impact** – The proposed project is not reasonably expected to result in adverse environmental impacts as set forth in Number 1 above.
40. **Navigation** – The proposed project is not reasonably expected to adversely affect navigation. The temporary in-water staging of the conduit bundle would be located parallel to the riprap shoreline along the north side of the MacArthur Causeway. The work is not proposed within or adjacent to navigational channels and each tether would have a marine light attached that would be illuminated at night to alert vessels to the presence of the structures. Therefore, the proposed project is not reasonably expected to adversely affect navigation.
41. **Public safety** – The proposed project is not reasonably expected to adversely affect public safety.
42. **Aesthetics**- The proposed project is temporary in nature; however, during the construction process, there may be temporary aesthetic impacts related to the presence of machinery associated with construction activities.
43. **Biscayne Bay Management Plan** – The project includes a non-water-dependent use that is not in full conformance with the Biscayne Bay Management Plan. However, the applicant is requesting a variance to the water dependency requirement of the Code. In addition, the proposed project is not reasonably expected to result in adverse environmental impacts as set forth in Number 1 above.
44. **Biscayne Bay Aquatic Preserve Act** - The project is not in full conformance with the Biscayne Bay Aquatic Preserve Act. However, the applicant is requesting a variance as set forth in Number 43 above.
45. **Rules of the Biscayne Bay Aquatic Preserve** - The project is not in full conformance with the rules of the Biscayne Bay Aquatic Preserve. However, the applicant is requesting a variance as set forth in Number 43 above.

BASED ON THE FOREGOING, IT IS RECOMMENDED THAT A CLASS I PERMIT BE APPROVED.



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McKee Gray, Chief  
Natural Resources Division



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Rockell Alhale, ERPS  
Coastal Resources Section



# FLORIDA DEPARTMENT OF Environmental Protection

Southeast District Office  
3301 Gun Club Road, MSC 7210-1  
West Palm Beach, FL 33406  
561-681-6600

**Ron DeSantis**  
Governor

**Jeanette Nuñez**  
Lt. Governor

**Noah Valenstein**  
Secretary

**Project Name:** FPL T17065 MB-Alton HDD

**Permittee/Authorized Entity:**  
Florida Power & Light Company  
c/o Frank LeBlanc  
15430 Endeavor Drive, D01/JW  
Jupiter, FL 33478  
Email: [Franck.l.leblanc@fpl.com](mailto:Franck.l.leblanc@fpl.com)

**Authorized Agent:**  
Golder Associates  
c/o Michael Harrington  
9428 Baymeadows Road, Suite 400  
Jacksonville, FL 32256  
Email: [mharrington@golder.com](mailto:mharrington@golder.com)

**Environmental Resource Permit - Granted**

**State-owned Submerged Lands Authorization – Granted**

**U.S. Army Corps of Engineers Authorization – Separate Corps Authorization  
Required**

**Permit No.:** 13-393851-001-EI

**Permit Issuance Date:** January 5, 2021

**Permit Construction Phase Expiration Date:** January 5, 2026



## **Environmental Resource Permit and State-owned Submerged Lands Authorization**

**Permit No.:** 13-393851-001-EI

### **PROJECT LOCATION**

The activities authorized by this Permit and state-owned submerged lands authorization are located within Biscayne Bay, within the Biscayne Bay Aquatic Preserve, Outstanding Florida Waters, Class III Waters, adjacent to MacArthur Causeway in Miami-Dade County (Latitude N 25° 46' 24.33", Longitude W 80° 08' 44.78").

### **PROJECT DESCRIPTION**

This permit authorizes horizontal directional drilling with entry and exit points in uplands, to install approximately 2,100 ln. ft. of new underground subaqueous 69kV transmission line. The bore will be a maximum of 48 in. in diameter and a depth of minus 80 ft. below the baybottom adjacent to MacArthur Causeway in Biscayne Bay.

No adverse impacts to wetlands or other surface waters are proposed. Therefore, there will be no adverse impacts to wetlands or submerged resources. Mitigation is not required.

All water bodies, including any adjacent submerged aquatic vegetation outside the specific limits of construction authorized by this permit shall be protected from erosion, siltation, sedimentation, and/or scouring.

### **AUTHORIZATIONS**

#### Environmental Resource Permit

The Department has determined that the activity qualifies for an Environmental Resource Permit. Therefore, the Environmental Resource Permit is hereby granted, pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Chapter 62-330, Florida Administrative Code (F.A.C.).

#### Sovereignty Submerged Lands Authorization

The activity is located on sovereignty submerged lands owned by the State of Florida. It therefore also requires authorization from the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees), pursuant to Article X, Section 11 of the Florida Constitution, and Section 253.77, F.S.

As staff to the Board of Trustees under Sections 253.002, F.S., the Department has determined that due to the time-sensitive nature of the project, the activity qualifies for a Letter of Consent pursuant to subsection 18-21.005(1)(c)15, F.A.C., as long as the work performed is located within the boundaries as described and is consistent with the terms and conditions herein.

During the term of this Letter of Consent you shall maintain satisfactory evidence of sufficient upland interest as required by paragraph 18-21.004(3)(b), Florida Administrative Code. If such interest is terminated or the Board of Trustees determines that such interest did not exist on the date of issuance of this Letter of Consent, this Letter of Consent may be terminated by the Board

Project Name: FPL T17065 MB-Alton HDD

Permit No.: 13-393851-001-EI

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of Trustees at its sole option. If the Board of Trustees terminates this Letter of Consent, you agree not to assert a claim or defense against the Board of Trustees arising out of this Letter of Consent.

Within one year of the date of issuance of this Letter of Consent, the permittee shall obtain a public easement from the Department's Division of State Lands.

#### Federal Authorization

Your proposed activity as outlined on your application and attached drawings **does not qualify** for Federal authorization pursuant to the State Programmatic General Permit and a **SEPARATE permit** or authorization **shall be required** from the Corps. You must apply separately to the Corps using their APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT, ENG FORM 4345, or alternative as allowed by their regulations. More information on Corps permitting may be found online in the Jacksonville District Regulatory Division Source Book at: <https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book>.

Authority for review - an agreement with the USACOE entitled "Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection (or Duly Authorized Designee), State Programmatic General Permit", Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

#### Coastal Zone Management

Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

#### Water Quality Certification

This permit also constitutes a water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. 1341.

#### Other Authorizations

You are advised that authorizations or permits for this activity may be required by other federal, state, regional, or local entities including but not limited to local governments or municipalities. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

The activity described may be conducted only in accordance with the terms, conditions and attachments contained in this document. Issuance and granting of the permit and authorizations herein do not infer, nor guarantee, nor imply that future permits, authorizations, or modifications will be granted by the Department.

### **PERMIT SOVEREIGNTY SUBMERGED LANDS CONDITIONS**

The activities described must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The Special Consent Conditions**
- **The General Conditions for Sovereignty Submerged Lands Authorization**
- **The limits, conditions and locations of work shown in the attached drawings**

- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to beginning the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings herein. If you are using a contractor, the contractor also should read and understand these conditions and drawings prior to beginning any activity. Failure to comply with these conditions, including any mitigation requirements, shall be grounds for the Department to revoke the permit and authorization and to take appropriate enforcement action.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit and sovereignty submerged lands authorization, as described.

#### **SPECIFIC CONDITIONS – EXECUTION OF PROPRIETARY DOCUMENTS**

(1) The permittee shall execute a public easement for the utility conduit within one year from the date of issuance of this permit. **If the applicant fails to execute the required public easement within one year from the date of issuance of this permit, the permittee may be subject to penalties pursuant to Chapter 253, F.S. and Rule 18-14, F.A.C.** In order to process your application to obtain a public easement, we need within 90 calendar days from the issuance date of this permit, the information listed in Rule 18-21.009, F.A.C.

#### **SPECIFIC CONDITIONS- PROJECT FORMS & ATTACHMENTS**

(2) The attached project drawings (sheets 1 through 15); the attached “Proposed Methods for Protection of Water Quality for Directional Bored Water Crossings” (Exhibit B); and DEP forms 62-330.310(3), 62-330.310(1); 62-330.310(2); 62-330.340(1); and 62-330.350(1), which may be downloaded at <http://www.dep.state.fl.us/water/wetlands/erp/forms.htm> become part of this permit. If the permittee does not have access to the Internet, please contact the Department at (561) 681-6600 to request the aforementioned forms and/or document(s).

#### **SPECIFIC CONDITIONS - PRIOR TO CONSTRUCTION**

(3) After selection of the contractor to perform the authorized activities and prior to the initiation of any work authorized by this permit, the permittee (or authorized agent) and the contractor shall attend a pre-construction conference with a representative of the Department. It shall be the responsibility of the permittee to contact the Department’s Compliance Assistance Program, by email [SED\\_Compliance@FloridaDEP.gov](mailto:SED_Compliance@FloridaDEP.gov), or by phone (561) 681-6600, to schedule the pre-construction conference.

#### **SPECIFIC CONDITIONS – CONSTRUCTION ACTIVITIES**

(4) Return water shall not be discharged into adjacent surface waters and/or wetlands, and all severed materials shall be temporarily placed in the self-contained upland containment pits, as shown on the attached drawings. The spoil containment pits shall be constructed to contain all severed materials and prevent the escape of severed materials and associated effluent into adjacent storm drains, surface waters, and/or wetlands. All containment pits and staging areas shall be located on uplands. Construction personnel shall maintain daily logs (including a depiction of the area inspected) outlining all bore route inspections conducted during construction.

(5) There shall be no storage or stockpiling of tools and materials (i.e., lumber, pilings, debris), within wetlands, surface waters, or along the shoreline adjacent to waters of the state.

(6) The entry and exit points of the directional drill shall be located on uplands and contained with silt fences/staked hay bales to contain any material from traveling into surrounding areas.

(7) Best management practices for erosion control within the staging area shall be implemented and maintained at all times during construction of the entry pits and drilling operations to prevent siltation and turbid discharges in excess of State water quality standards.

(8) To provide an additional level of resource protection, the volume of bentonite in the drill string shall be monitored at all times during directional drilling operation. Should a drop in volume of bentonite occur, the following measures will be taken:

1. Immediately conduct a visual inspection of both terrestrial and subaqueous portions of the HDD corridor. If a frac-out is detected, notify Southeast District Compliance staff at [SED\\_Compliance@FloridaDEP.gov](mailto:SED_Compliance@FloridaDEP.gov) or (561)681-6600, within 2 hours of detection.
2. Should the release of drilling materials occur, the appropriate actions shall take place in strict accordance with the attached "Frac-Out Contingency Plan."

(9) In order to minimize the possibility of a bentonite release during punch out, the site project manager shall consider the use of water in place of bentonite during the last 30 to 50 feet of the directional bore. The HDD operator shall stop the flow of recirculated bentonite and the borehole shall be flushed with water to remove the bentonite. Once the drill string is clear of bentonite, drilling will continue using only water as the boring medium.

(10) Additives to the bentonite drilling muds shall not be used without the Department's prior approval. If additives are needed, a permit modification will be required. Toxicity evaluations using marine organisms with concentrations of additives representative of those proposed for HDD boring will be required to evaluate the permit modification request.

(11) A fully enclosed truck shall remain onsite for frac-out assistance as well as to remove all drilling fluids prior to backfilling the containment pits. If night time drilling and/or boring activities are performed beneath wetlands or surface waters, the permittee and/or contractor shall provide evidence to the Department that the contracted construction personnel is equipped with the best available lighting to detect a frac-out during low light conditions, which shall be utilized when tracing the HDD at night. Prior to night time drilling and/or boring activities, the permittee and/or contractor shall contact the Department at the address in Specific Condition No. 8, a minimum of 48 hours prior to commencement of drilling, etc.

(12) Within 14 days of the pipe installation, the permittee shall fully restore the staging area to its original condition. Paved surfaces shall be repaired and unpaved surface areas shall be replanted with native vegetation.

## **SPECIFIC CONDITIONS – MANATEE CONDITIONS**

(13) The permittee shall comply with the standard manatee protection construction conditions listed in the attached “2011 Standard Manatee Conditions for In-Water Work”.

### **SPECIFIC CONDITIONS – LISTED SPECIES**

(14) This permit does not authorize the permittee to cause any adverse impact to or “take” of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of “take” and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a “take” permit cannot be issued. Requests for further information or review can be sent to [FWCConservationPlanningServices@MyFWC.com](mailto:FWCConservationPlanningServices@MyFWC.com).

### **GENERAL CONDITIONS FOR INDIVIDUAL PERMITS**

The following general conditions are binding on all individual permits issued under chapter 62-330, F.A.C., except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate project-specific conditions.

(1) All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

(2) A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

(3) Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector’s Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

(4) At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), “Construction Commencement Notice,” [October 1, 2013], which is incorporated by reference in paragraph 62-330.350(1)(d), F.A.C., indicating the expected start and completion dates. A copy of this form may be obtained

from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.

(5) Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

(6) Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

- a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex – “Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit” [Form 62-330.310(3)]; or
- b. For all other activities – “As-Built Certification and Request for Conversion to Operational Phase” [Form 62-330.310(1)].
- c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

(7) If the final operation and maintenance entity is a third party:

- a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
- b. Within 30 days of submittal of the as- built certification, the permittee shall submit “Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity” [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

(8) The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

(9) This permit does not:

- a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
- b. Convey to the permittee or create in the permittee any interest in real property;
- c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
- d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

(10) Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the

permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

(11) The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

(12) The permittee shall notify the Agency in writing:

- a. Immediately if any previously submitted information is discovered to be inaccurate; and
- b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

(13) Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

(14) If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.

(15) Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

(16) The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

(17) This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

(18) A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

### **SPECIAL CONSENT CONDITIONS**

- 1) The applicant agrees to indemnify, defend and hold harmless the Board of Trustees and the State of Florida from all claims, actions, lawsuits and demands in any form arising out of the authorization to use sovereignty submerged lands or the applicant's use and construction of structures on sovereignty submerged lands. This duty to indemnify and hold harmless will include any and all liabilities that are associated with the structure or activity including special assessments or taxes that are now or in the future assessed against the structure or activity during the period of the authorization.
- 2) Failure by the Board of Trustees to enforce any violation of a provision of the authorization or waiver by the Board of Trustees of any provision of the authorization will not invalidate the provision not enforced or waived, nor will the failure to enforce or a waiver prevent the Board of Trustees from enforcing the unenforced or waived provision in the event of a violation of that provision.
- 3) Applicant binds itself and its successors and assigns to abide by the provisions and conditions set forth in the authorization. If the applicant or its successors or assigns fails or refuses to comply with the provisions and conditions of the authorization, the authorization may be terminated by the Board of Trustees after written notice to the applicant or its successors or assigns. Upon receipt of such notice, the applicant or its successors or assigns will have thirty (30) days in which to correct the violations. Failure to correct the violations within this period will result in the automatic revocation of this authorization.
- 4) All costs incurred by the Board of Trustees in enforcing the terms and conditions of the authorization will be paid by the applicant. Any notice required by law will be made by certified mail at the address shown on page one of the authorization. The applicant will notify the Board of Trustees in writing of any change of address at least ten days before the change becomes effective.
- 5) This authorization does not allow any activity prohibited in a conservation easement or restrictive covenant that prohibits the activity.

### **GENERAL CONDITIONS FOR SOVEREIGNTY SUBMERGED LANDS AUTHORIZATION**

Any use of sovereignty submerged lands is subject to the following general conditions are binding upon the applicant and are enforceable under Chapter 253, F.S. and Chapter 258, F.S.

(1) Sovereignty submerged lands may be used only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use will constitute a violation. Violation of the authorization will result in suspension or revocation of the applicant's use of the sovereignty submerged lands unless cured to the satisfaction of the Board of Trustees.



(2) Authorization under Rule 18-21.005, F.A.C., conveys no title to sovereignty submerged lands or water column, nor does it constitute recognition or acknowledgment of any other person's title to such land or water.

(3) Authorizations under Rule 18-21.005, F.A.C., may be modified, suspended or revoked in accordance with its terms or the remedies provided in Sections 253.04, F.S. and Chapter 18-14, F.A.C.

(4) Structures or activities will be constructed and used to avoid or minimize adverse impacts to resources.

(5) Construction, use, or operation of the structure or activity will not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.

(6) Structures or activities will not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity will be modified in accordance with the court's decision.

(7) Structures or activities will not create a navigational hazard.

(8) Structures will be maintained in a functional condition and will be repaired or removed if they become dilapidated to such an extent that they are no longer functional.

(9) Structures or activities will be constructed, operated, and maintained solely for water dependent purposes.

(10) The applicant agrees to indemnify, defend and hold harmless the Board of Trustees and the State of Florida from all claims, actions, lawsuits and demands in any form arising out of the authorization to use sovereignty submerged lands or the applicant's use and construction of structures on sovereignty submerged lands. This duty to indemnify and hold harmless will include any and all liabilities that are associated with the structure or activity including special assessments or taxes that are now or in the future assessed against the structure or activity during the period of the authorization.

(11) Failure by the Board of Trustees to enforce any violation of a provision of the authorization or waiver by the Board of Trustees of any provision of the authorization will not invalidate the provision not enforced or waived, nor will the failure to enforce or a waiver prevent the Board of Trustees from enforcing the unenforced or waived provision in the event of a violation of that provision.

(12) Applicant binds itself and its successors and assigns to abide by the provisions and conditions set forth in the authorization. If the applicant or its successors or assigns fails or refuses to comply with the provisions and conditions of the authorization, the authorization may be terminated by the Board of Trustees after written notice to the applicant or its successors or assigns. Upon receipt of such notice, the applicant or its successors or assigns will have thirty (30) days in

which to correct the violations. Failure to correct the violations within this period will result in the automatic revocation of this authorization.

(13) All costs incurred by the Board of Trustees in enforcing the terms and conditions of the authorization will be paid by the applicant. Any notice required by law will be made by certified mail at the address shown on page one of the authorization. The applicant will notify the Board of Trustees in writing of any change of address at least ten days before the change becomes effective.

(14) This authorization does not allow any activity prohibited in a conservation easement or restrictive covenant that prohibits the activity.

### **NOTICE OF RIGHTS**

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

#### Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rule 28-106.201, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any email address, any facsimile number, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

#### Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 14 days of receipt of such notice, regardless of the date of publication. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under [Sections 120.569](#) and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

#### Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

#### Mediation

Mediation is not available in this proceeding.

#### FLAWAC Review

The applicant, or any party within the meaning of sections 373.114(1)(a) or 373.4275, Florida Statutes, may also seek appellate review of this order before the Land and Water Adjudicatory Commission under section 373.114(1) or 373.4275, Florida Statutes. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Any Party to this Order has the right to seek judicial review of the Order Pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of the Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Order is filed with the clerk of the Department.

#### Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this action is filed with the Clerk of the Department.

Executed in West Palm Beach, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



---

Norva Blandin, MSEM  
Program Administrator  
Permitting and Waste Cleanup Program  
Southeast District

#### **CERTIFICATE OF SERVICE**

The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

FDEP – Norva Blandin, Jeff Meyer, Newt Robson, Jason Spanier, Laura Eldredge  
Lisa Spadafina, Miami-Dade County RER, [spadaL2@miamidade.gov](mailto:spadaL2@miamidade.gov)  
Michael Harrington, [Michael\\_Harrington@golder.com](mailto:Michael_Harrington@golder.com)

#### **FILING AND ACKNOWLEDGMENT**

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Project Name: FPL T17065 MB-Alton HDD  
Permit No.: 13-393851-001-EI  
Page 13 of 14

MDC116



**Clerk**

01/05/2021

**Date**

**Attachments:**

Project Drawings and Design Specs., 15 pages

Exhibit B, Proposed Methods for Protection of Water Quality for Directional Bored Water Crossings, 1 pages

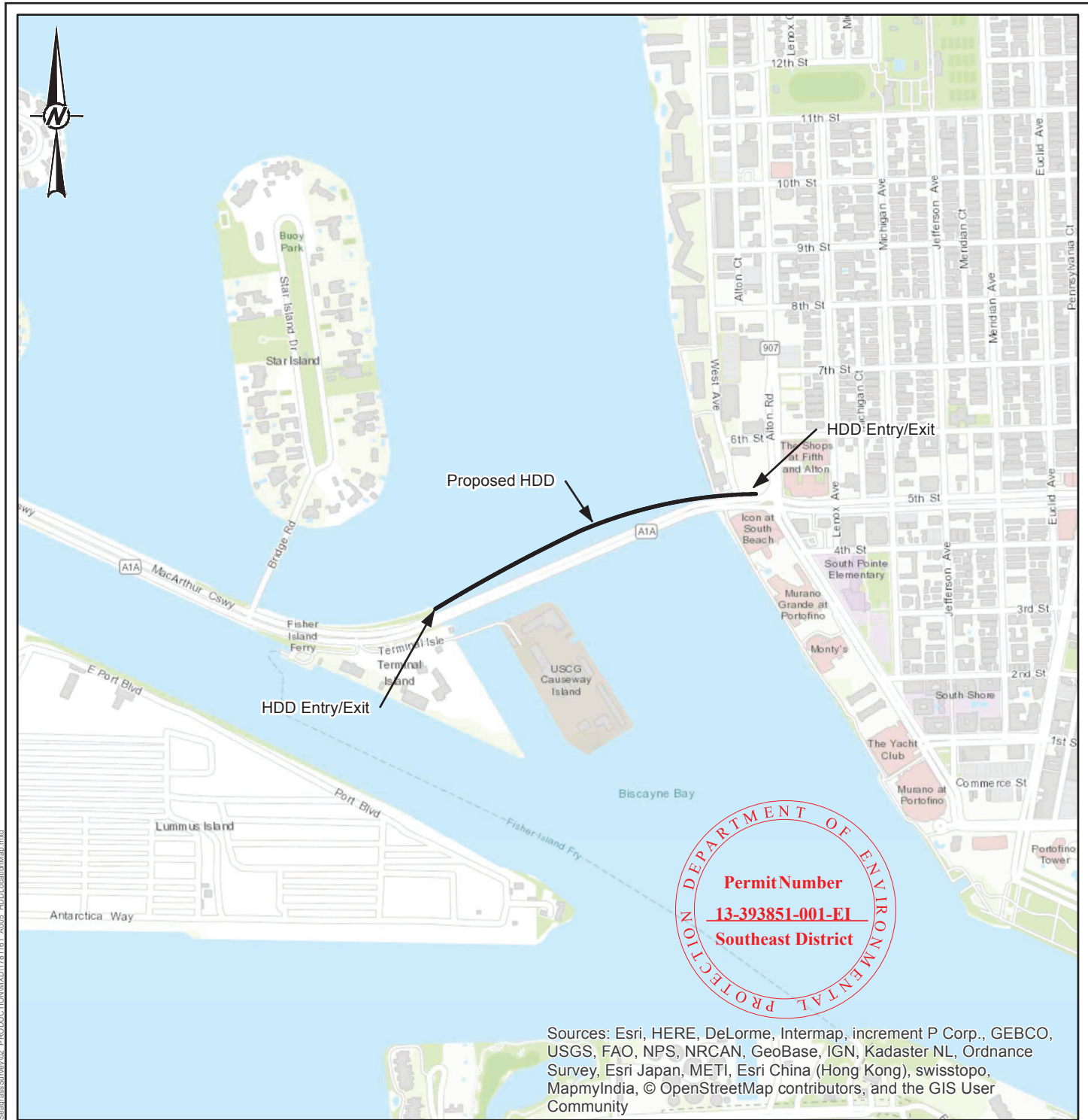
As-built Certification and Request for Conversion to Operational Phase Form 62-330.310(1)\*

Request for Transfer to the Perpetual Operation Entity Form 62-330.310(2)\*

Request to Transfer Permit Form 62-330.340(1)\*

Commencement Notice Form 62-330.350(1)\*

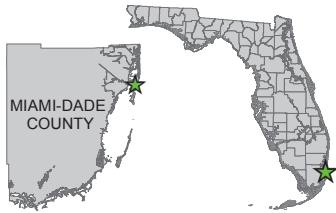
\*Can be downloaded at: <https://floridadep.gov/water/submerged-lands-environmental-resources-coordination/content/forms-environmental-resource>



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**Permit Number**  
**13-393851-001-EI**  
**Southeast District**

- Legend**
- ★ Project Location
  - Proposed HDD



**REFERENCE(S)**  
 1. PROJECT LOCATION: GOLDER ASSOCIATES INC. 2017  
 2. COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET  
 PROJECTION: TRANSVERSE MERCATOR  
 DATUM: NORTH AMERICAN 1983

CLIENT  
**FPL**

PROJECT  
**MIAMI BEACH - ALTON HDD**

CONSULTANT

YYYY-MM-DD	2018-02-02
DESIGNED	JGW
PREPARED	JGW
REVIEWED	SL
APPROVED	SL

TITLE  
**LOCATION MAP**



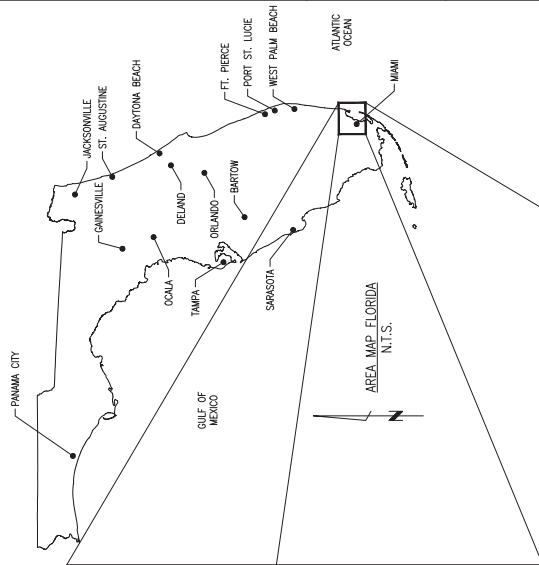
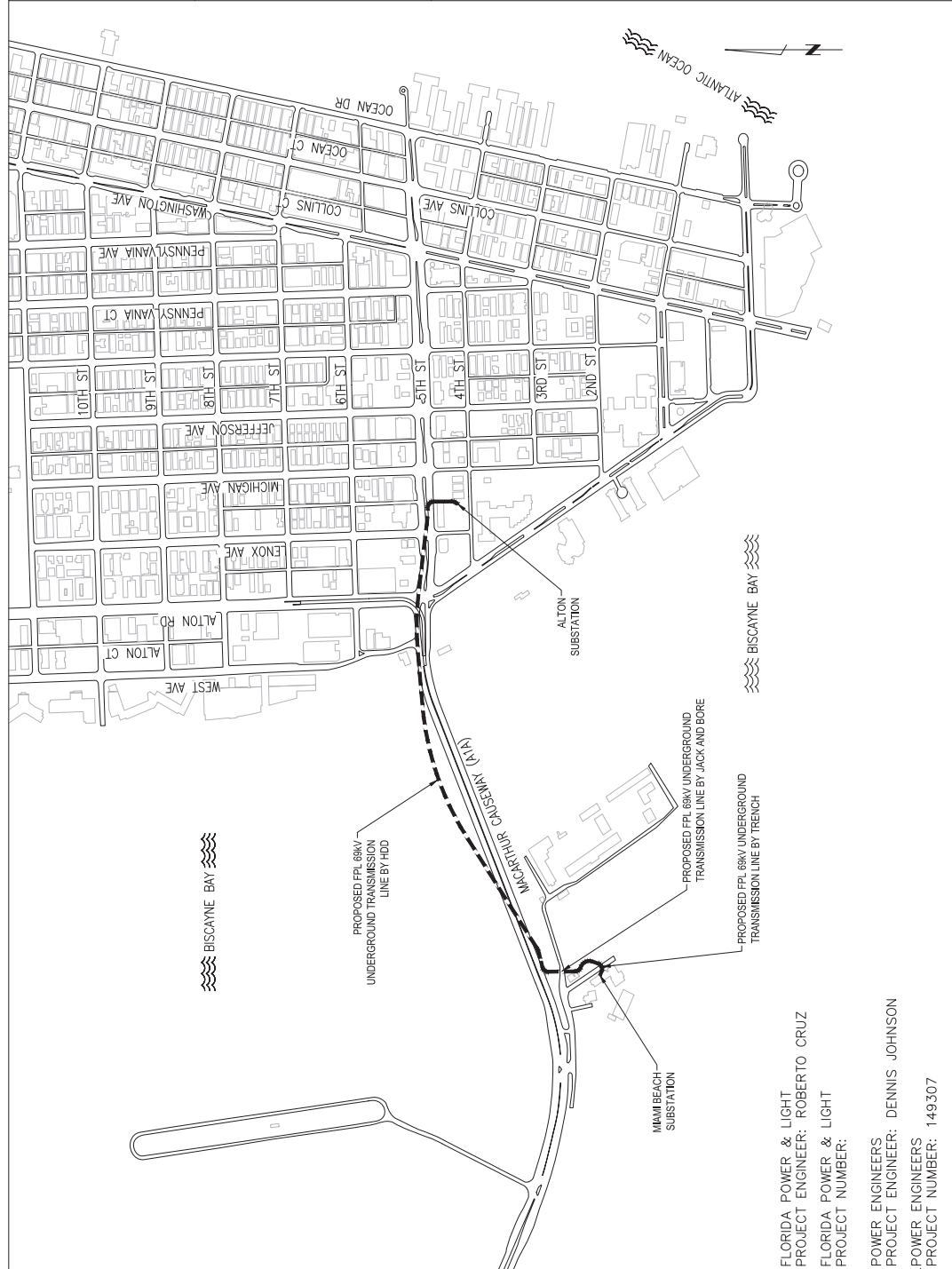
PROJECT NO. 17-051	CONTROL A005	REV. 0	FIGURE <b>1</b>
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**MDC118**

PATH: G:\PROJECTS\FPL\Miami Beach to Alton\17051\17051\_01\_Snapgrass\_Survey\09\_PROJECT\17051161\_A\_Snapgrass\_Survey\02\_PRODUCTION\MXD\17051161\_A005\_HDI\_locationmap.mxd

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANS/A

# FLORIDA POWER AND LIGHT MIAMI BEACH TO ALTON 69kV UNDERGROUND TRANSMISSION LINES



FLORIDA POWER & LIGHT  
PROJECT ENGINEER: ROBERTO CRUZ  
FLORIDA POWER & LIGHT  
PROJECT NUMBER:  
POWER ENGINEERS  
PROJECT ENGINEER: DENNIS JOHNSON  
POWER ENGINEERS  
PROJECT NUMBER: 149307

**PRELIMINARY**  
NOT FOR CONSTRUCTION



Know what's below.  
Call before you dig.



JOB # 149307 DRAWING # CO-1  
SHEET 1 OF 2  
COVER SHEET

MIAMI BEACH TO ALTON  
69kV UNDERGROUND TRANSMISSION LINE

DATE	SCALE	N.T.S.
01-17-2018	FLORIDA POWER & LIGHT	

DATE	REVISION
05-19-20	ISSUED FOR PERMIT
03-03-20	ISSUED FOR PERMIT
12-11-19	ISSUED FOR PERMIT
10-18-19	ISSUED FOR PERMIT
10-24-19	ISSUED FOR PERMIT

DISCIPLINE	BY	DATE
ISH TBB		
DR _RRO		
DR _RRO		
DR _RRO		
DR _RRO		
DR _RRO		
DR _RRO		

DATE	REVISION
08-25-20	ISSUED FOR PERMIT
08-25-20	ISSUED FOR PERMIT

MIAMI BEACH TO ALTON VICINITY MAP  
N.T.S.

MDC119

**PRELIMINARY**  
NOT FOR CONSTRUCTION



VICINITY MAP  
N.T.S.

MIAMI BEACH TO ALTON  
69KV UNDERGROUND TRANSMISSION LINE

DATE	SCALE	N.T.S.
01-17-2018	SCALE	N.T.S.

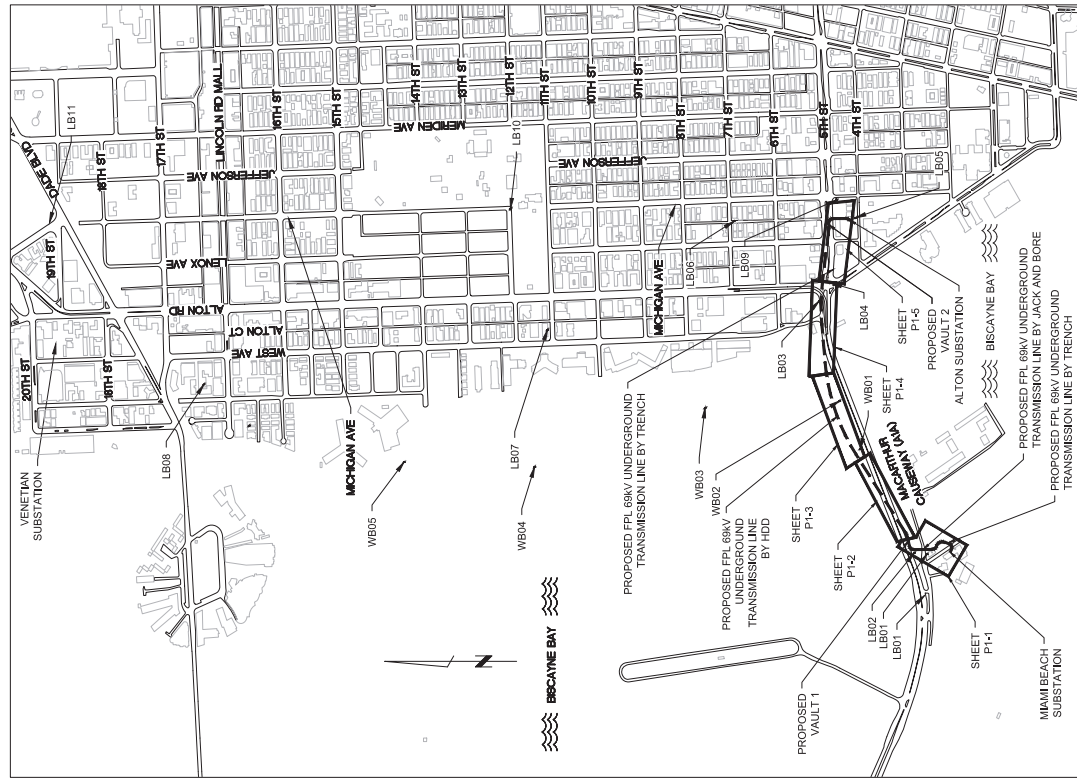
DATE	SCALE	N.T.S.
01-17-2018	SCALE	N.T.S.

DATE	SCALE	N.T.S.
01-17-2018	SCALE	N.T.S.

DATE	SCALE	N.T.S.
01-17-2018	SCALE	N.T.S.

DATE	SCALE	N.T.S.
01-17-2018	SCALE	N.T.S.

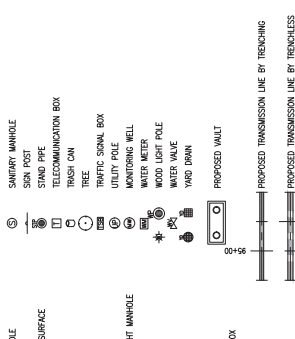
DATE	SCALE	N.T.S.
01-17-2018	SCALE	N.T.S.



DRAWING NO.	TITLE/DESCRIPTION	REVISION	DATE
GO-1	COVER SHEET	6	08-25-20
GO-2	DRAWING MANIFEST	6	08-25-20
PI-1	PLAN & PROFILE VIEW STA. 200+00 TO 208+00	6	08-25-20
PI-2	PLAN & PROFILE VIEW STA. 208+00 TO 214+00	6	08-25-20
PI-3	PLAN & PROFILE VIEW STA. 214+00 TO 224+00	6	08-25-20
PI-4	PLAN & PROFILE VIEW STA. 224+00 TO 234+00	6	08-25-20
PI-5	PLAN & PROFILE VIEW STA. 234+00 TO 243+00	6	08-25-20
PI-6	PIPE LAYOUT AREA	6	08-25-20
UR-1	TRENCH DETAILS	6	08-25-20
UR-2	SPACE WALT DETAILS	6	08-25-20
UR-3	SPACE WALT DETAILS	6	08-25-20
UR-4	SPACE WALT DETAILS	6	08-25-20
UR-5	ACCESSORIES DETAILS	6	08-25-20

NUMBER	NORTHING	EASTING	ELEV. (FEET)	DESCRIPTION
50	524022.8400	839723.3070	1.38	SET N/D STAMPED: M&S TRW
51	524022.8600	839765.6890	1.37	SET N/D STAMPED: M&S TRW
52	525133.3200	839701.4180	2.27	SET N/D STAMPED: M&S TRW
53	525191.5500	839722.8340	2.83	SET N/D STAMPED: M&S TRW
54	526044.4810	839684.4780	2.17	SET N/D STAMPED: M&S TRW
55	526376.5500	839694.5870	2.44	SET N/D STAMPED: M&S TRW
56	526886.5300	839521.8410	2.11	SET N/D STAMPED: M&S TRW
57	527258.6000	839461.8010	2.51	SET N/D STAMPED: M&S TRW
58	527681.9500	839499.5700	2.61	SET N/D STAMPED: M&S TRW
59	528176.7500	839521.1370	2.17	ORIG MARK
60	528336.4500	839505.9800	1.25	K500 EISK STAMPING
61	528198.5000	839569.6300	1.56	K561 EISK STAMPING
62	528972.6400	839555.8900	1.72	K562 EISK STAMPING
63	530489.0400	839550.1740	2.88	K563 EISK STAMPING
64	531111.3300	839491.6030	1.93	FOUND N/D STAMPED: LB 7980
65	531644.4140	839517.2400	1.88	FOUND N/D STAMPED: M&S TRW
66	532066.1200	839465.1080	2.25	SET N/D STAMPED: M&S TRW
67	532694.4770	839425.7010	1.62	SET N/D STAMPED: M&S TRW
68	533331.8800	839328.4210	1.78	SET N/D STAMPED: M&S TRW
69	532007.7500	838838.4430	2.20	SET N/D STAMPED: M&S TRW

- FOOT PERMIT REQUIREMENTS**
- CONTRACTOR SHALL ASSURE THAT ANY ACTION CARRIED OUT ARE IN ACCORDANCE WITH ALL ENVIRONMENTAL REGULATORY REQUIREMENTS.
  - IN THE EVENT OF POLLUTANT CONTAMINATION, EMERGENCY OCCURS AS RESULT OF THE UNDERMINING OF EXISTING UTILITIES, CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF INVESTIGATION AND REMEDIATION ACTIVITIES AS REQUIRED BY ALL APPLICABLE ENVIRONMENTAL REGULATORY AGENCIES.
  - DIRECT DISCHARGE TO THE RESERVE BAY AN OUTFLOWING FRESH WATER IS PROVIDED THE FOOT DRAINAGE SYSTEM OUTFALLS TO THE INTERCOASTAL WATERWAY. THEREFORE THE CONTRACTOR SHALL PROVIDE AN OUTLET FOR THE EXCESS FRESH WATER AND THE EXCESS FRESH WATER SHALL BE EFFLUENT. IF ANY NEEDS TO BE CONTROLLED ON-SITE AND CAN NOT BE DISCHARGED TO AN FOOT DRAINAGE SYSTEM, IMPROVED POINTS OF DISCHARGE ARE TEMPORARY DRAINAGE WELLS TO BE PROVIDED TO THE RESERVE BAY. THE LOCATION OF TEMPORARY WELLS SHALL BE SHOWN ON THE DRAWINGS.
  - CONTRACTOR SHALL INCONSIDERANCE WITH CITY OF MIAMI BEACH PERMIT FOR ROAD CLOSURE.
  - PAVEMENT SHALL BE MILLED AND RESURFACED FOR A FULL LANE WIDTHS AND MINIMUM 10 FEET LENGTHS IN BOTH DIRECTIONS FROM THE DAMAGED AREA. CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC PATTERNS AND MAINTAIN EXISTING TREE DURING CONSTRUCTION PER FOOT FORWARD PLANS INEA 11D-100. DO NOT PARK VEHICLES OR STAKE CONSTRUCTION WITHIN THE DRIP LINE OF EXISTING TREES. WHERE CONSTRUCTION EFFECT WILL RESULT ON CANOPY, PROTECT TRUNKS PER FOOT STAMPING SPECIFICATION 11L.



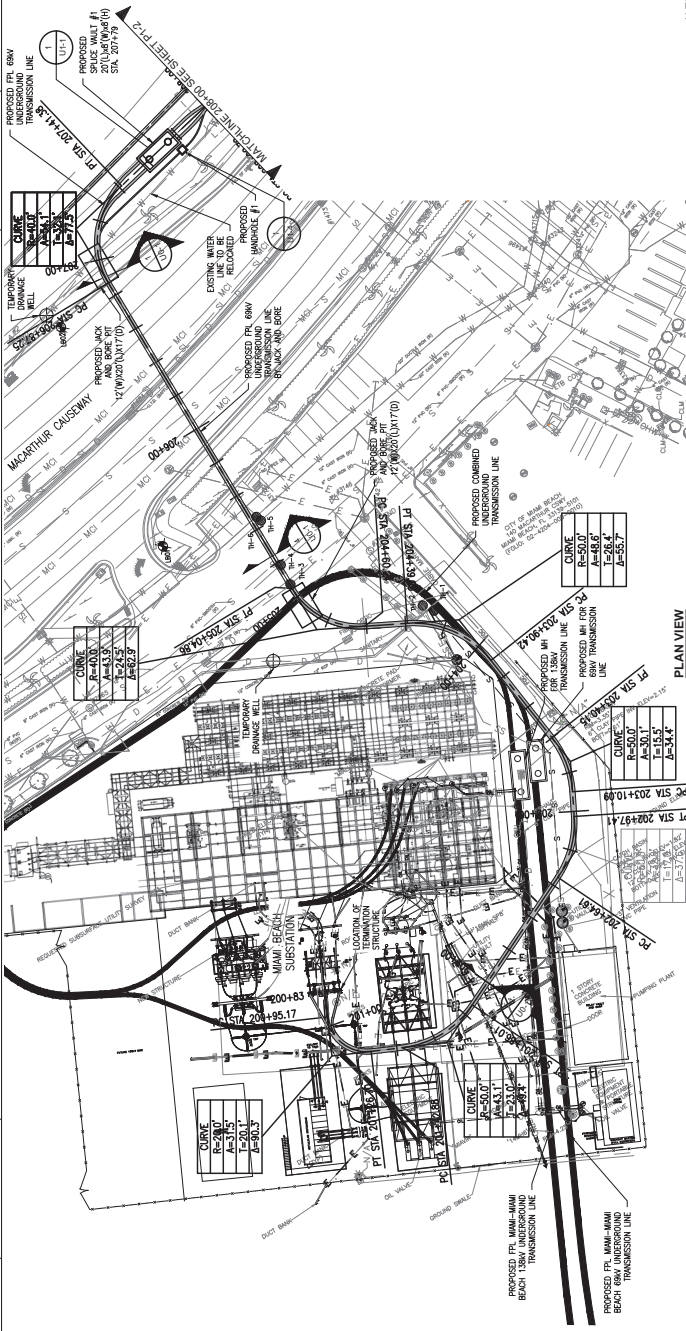
NUMBER	NORTHING	EASTING	ELEV. (FEET)	DESCRIPTION
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2	527851.190	836276.975	5.89	SET N/D STAMPED: M&S TRW
3	529368.623	83636.197	5.48	SET N/D STAMPED: M&S TRW
4	529368.623	83694.801	5.16	FOUND N/D STAMPED: LB 7979
5	529370.483	83667.486	5.30	SET N/D STAMPED: M&S TRW
6	529359.488	83661.401	5.85	SET N/D STAMPED: M&S TRW
7	529722.105	83651.846	6.45	SET N/D STAMPED: M&S TRW
8	529728.207	83703.846	6.45	SET N/D STAMPED: M&S TRW
9	529748.343	83731.576	6.08	SET N/D STAMPED: M&S TRW
10	529826.233	83815.860	2.88	SET N/D STAMPED: M&S TRW
11	529742.453	83836.485	3.08	SET N/D STAMPED: M&S TRW
12	529490.859	83831.173	3.13	SET N/D STAMPED: M&S TRW
13	529494.520	83897.727	1.62	SET N/D STAMPED: M&S TRW
14	529498.219	83905.205	1.85	SET N/D STAMPED: M&S TRW
15	529494.333	83915.850	1.26	SET N/D STAMPED: M&S TRW
16	529291.459	83939.595	3.43	SET N/D STAMPED: M&S TRW
17	529425.563	83961.185	1.70	SET N/D STAMPED: M&S TRW
18	529411.001	83941.792	4.08	SET N/D STAMPED: M&S TRW
20	52901.345	83953.117	5.19	SET N/D STAMPED: M&S TRW
21	529462.339	83949.555	2.72	SET N/D STAMPED: M&S TRW
22	52907.032	83923.523	7.91	FOUND BENCH MARK OF 1985 (M&B), BENCHMARK OF ORIGIN PROVIDED BY THE CITY OF MIAMI BEACH (ELEVATION = 4.92).
23	529452.290	84002.287	2.17	FOUND BENCH MARK OF 1985 (M&B), BENCHMARK OF ORIGIN PROVIDED BY THE CITY OF MIAMI BEACH (ELEVATION = 4.92).

- GENERAL NOTES**
- UTILITIES AND NATURAL FEATURES SHOWN HEREON ARE BASED ON RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST NOT INDICATED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES, CALL BEFORE YOU DIG, 811 OR 1-800-432-4770.
  - DISTANCES AND ELEVATIONS SHOWN HEREON ARE IN U.S. SURVEY FEET AND DECIMAL PORTIONS THEREOF.
  - THE EXPECTED VERTICAL ACCURACY OF THE FEATURES SHOWN HEREON IS ± 0.05' FOR V&D SURFACES AND ± 0.1' FOR SOFT SURFACES.
  - ORIG COORDINATES AND IMPROVEMENTS SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM. EAST ZONE TRANSVERSE MERCATOR PROJECTION, NORTH AMERICAN DATUM OF 1983 WITH THE 2011 ADJUSTMENT. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD83). BENCHMARK OF ORIGIN PROVIDED BY THE CITY OF MIAMI BEACH (ELEVATION = 2.917) AND M&B-28 (ELEVATION = 4.537), AND M&B-20A (ELEVATION = 4.22).
  - ALL AREAS DESTROYED BY CONSTRUCTION SHALL BE RETURNED TO THE ORIGINAL CONDITION OR BETTER AS DETERMINED BY OWNER.
  - CONTRACTOR SHALL MAINTAIN MINIMUM COVER DEPTH OF 2'-0" BELOW GRADE. A 1'-0" VERTICAL CLEARANCE OVER OR UNDER EXISTING UTILITIES IS REQUIRED.
  - ALL VERTICAL BENCH SHALL BE A MINIMUM OF 400' UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING AND REPAIRING ALL PAVED CURBS, AND SIDEWALKS, DISTURBED DUE TO THE CONSTRUCTION. CONTRACTOR SHALL REMOVE THE FULL WIDTH OF ALL LOCAL ROADS AND ONE TRAILER DIRECTION IN ALL STREET-WIDENING AND REPAIRING SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE LOCAL AND/OR STATE REQUIREMENTS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR BUILDING TEMPORARY AND PERMANENT ACCESS ROADS. ALL TEMPORARY ACCESS ROADS WILL BE RESTORED WHEN WORK IS COMPLETED.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING BEST MANAGEMENT PRACTICES. BEST PRACTICES SHALL BE CONSTRUCTED ON THE DOWN-SLOPE SIDE OF DISTURBED AREAS, ALONG A LINE OF EQUAL ELEVATION.
  - CONTRACTOR SHALL MAINTAIN THE PREVIOUS MAINTENANCE RETURN AND THE PLAN IN THE EVENT OF INCIDENT RETURN.
  - NO IMPACTS TO BEING RESOURCES ARE PROPOSED.

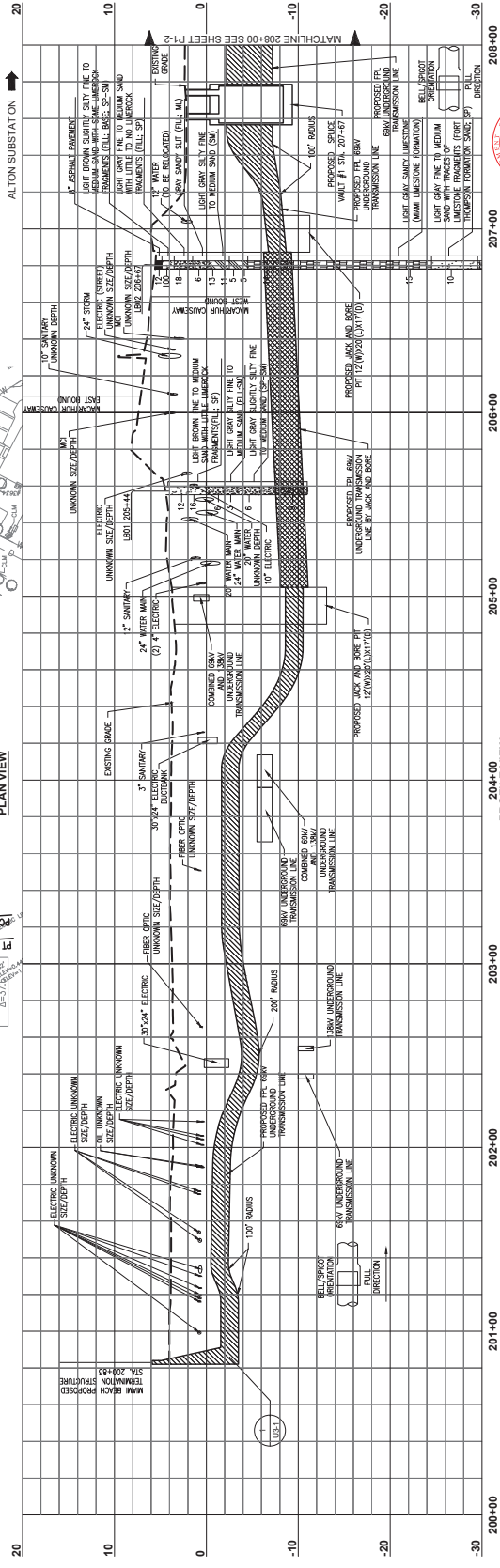
**MDC120**

VENETIAN SUBSTATION  
MCHROAN AVE  
BISCAYNE BAY  
MIAMI BEACH SUBSTATION

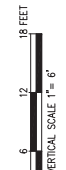




PLAN VIEW



PROFILE VIEW



NOTES:  
 1. THE UTILITIES SHOWN HEREON ARE BASED ON RECORD DOCUMENTS. OTHER UTILITIES MAY EXIST NOT RECORDED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, DEPTH, HORIZONTAL AND VERTICAL OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG. (407) 462-4471.  
 2. ALL VERTICAL RADII ARE 400' UNLESS OTHERWISE NOTED.



Know what's below.  
 Call before you dig.

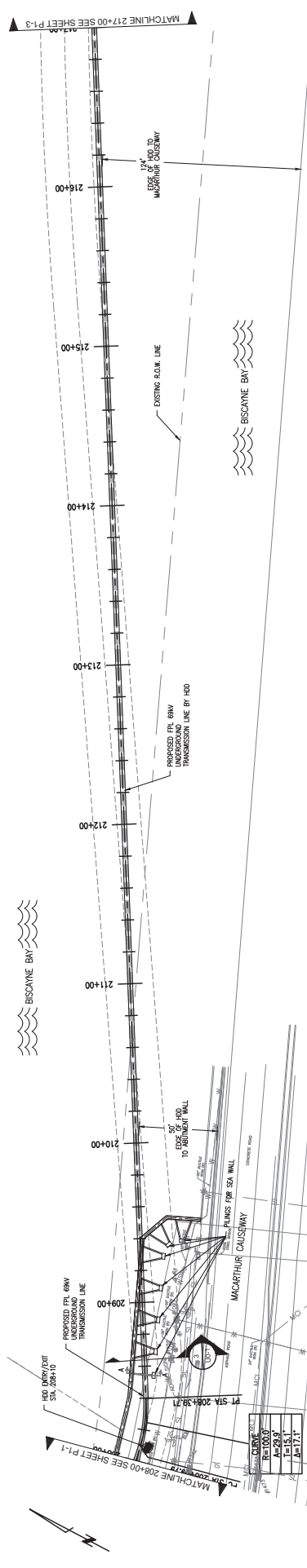
PRELIMINARY  
 NOT FOR CONSTRUCTION

JOB #149307 DRAWING # P1-1  
 SHEET 1 OF 5  
 PLAN & PROFILE VIEW  
 STA. 200+70 TO 208+00

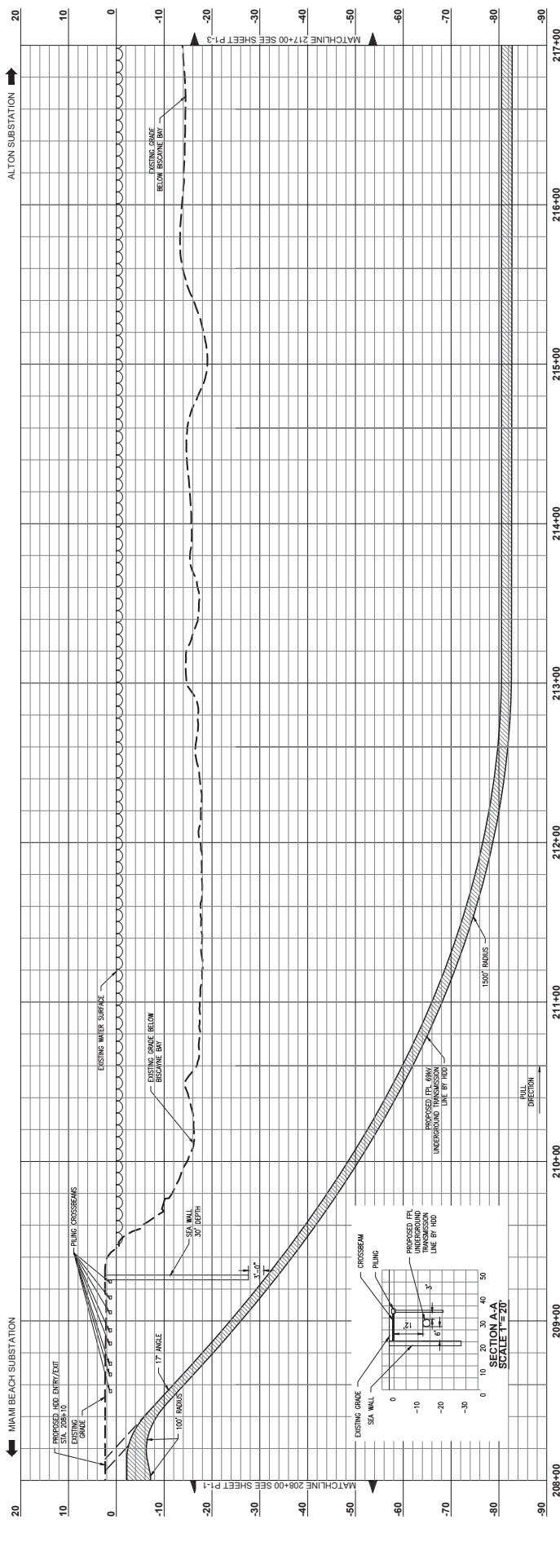
MIAMI BEACH TO ALTON  
 69KV UNDERGROUND TRANSMISSION LINE

DATE	01-17-2018	SCALE	AS SHOWN
DR	DR	DR	DR
CH	CH	CH	CH
APPROVED	APPROVED	APPROVED	APPROVED

REV	NO	DATE	BY	CHK	DESCRIPTION
1	1	01-17-2018	ER	ER	ISSUED FOR PERMIT
2	2	01-17-2018	ER	ER	ISSUED FOR PERMIT
3	3	01-17-2018	ER	ER	ISSUED FOR PERMIT
4	4	01-17-2018	ER	ER	ISSUED FOR PERMIT
5	5	01-17-2018	ER	ER	ISSUED FOR PERMIT
6	6	01-17-2018	ER	ER	ISSUED FOR PERMIT
7	7	01-17-2018	ER	ER	ISSUED FOR PERMIT
8	8	01-17-2018	ER	ER	ISSUED FOR PERMIT
9	9	01-17-2018	ER	ER	ISSUED FOR PERMIT
10	10	01-17-2018	ER	ER	ISSUED FOR PERMIT



PLAN VIEW



PROFILE VIEW



- NOTES:
- THE UTILITIES SHOWN HEREON ARE BASED ON RECORD DOCUMENTS. OTHER UTILITIES MAY EXIST. NOT RECORDED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, DEPTH, POSITION AND VERTICAL OF ALL UTILITIES THROUGH THE APPROPRIATE LOCAL DEPARTMENT. CALL BEFORE YOU DIG. (407) 462-4474.
  - ALL VERTICAL RADII ARE 400' UNLESS OTHERWISE NOTED.



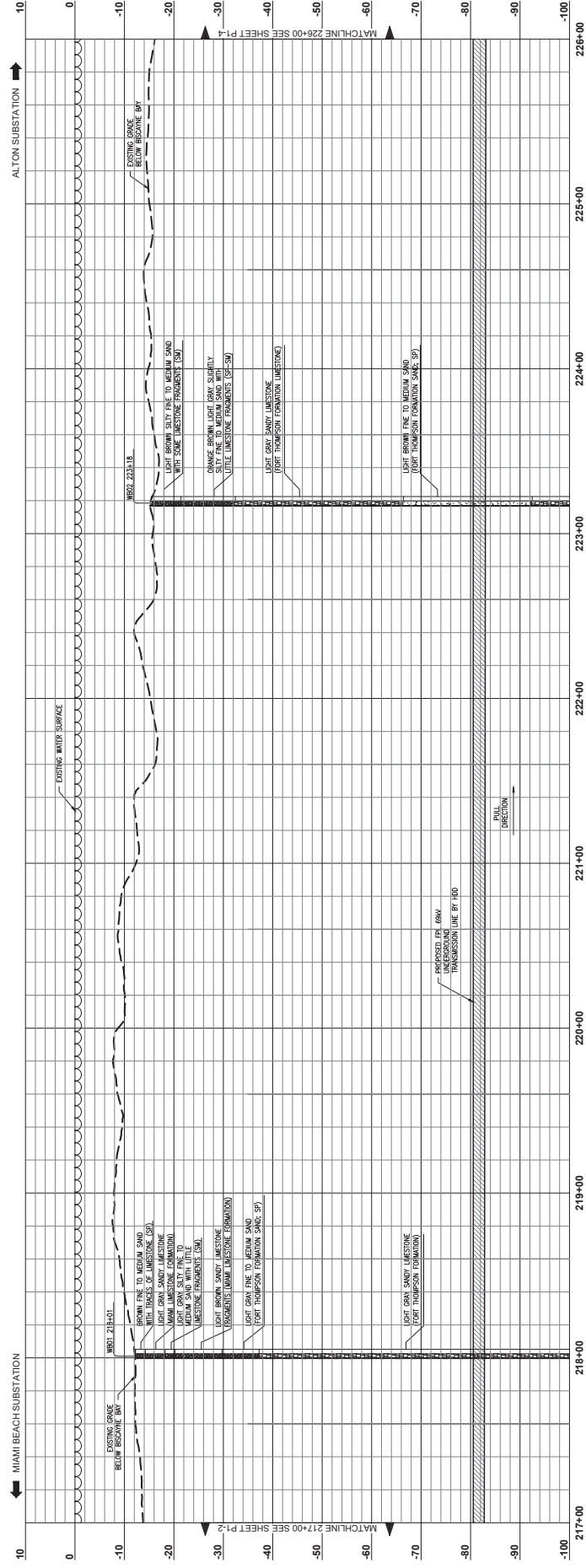
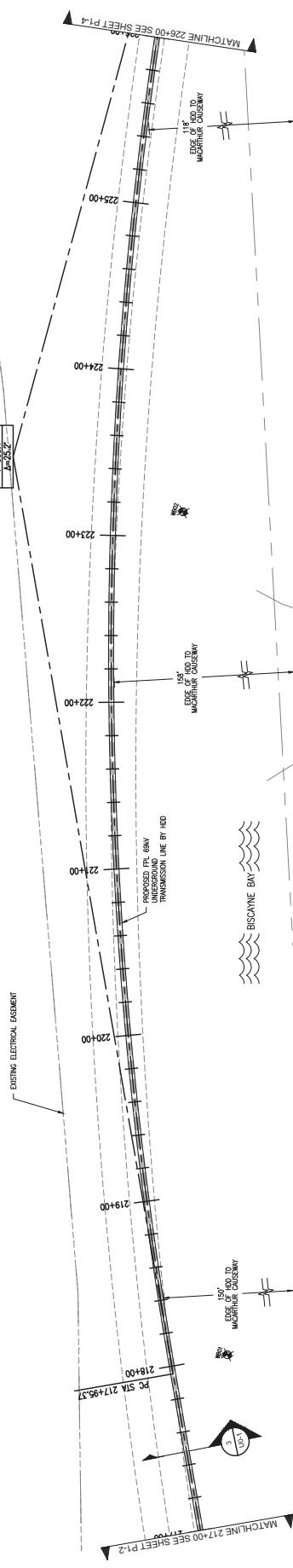
Know what's below.  
Call before you dig.



PRELIMINARY  
NOT FOR CONSTRUCTION

JOB #149307		DRAWING # P1-2	
SHEET 2 OF 5		REV NO	
PLAN & PROFILE VIEW		C	
STA. 208+00 TO 217+00			
MIAMI BEACH TO ALTON 69KV UNDERGROUND TRANSMISSION LINE			
DATE	01-17-2018	SCALE	AS SHOWN
DESIGNED BY	DR DSH	CHECKED BY	ER DEJ
DRAWN BY	DR DSH	APPROVED BY	ER DEJ
DATE	07-24-19	REVISION	
BY	CH EOR/APP	REVISION	

CURVE	R=250.0'
A=1098.2'	
T=558.1'	
B=252.2'	



NOTES:

- THE UTILITIES SHOWN HEREON ARE BASED ON RECORD DOCUMENTS. OTHER UTILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, DEPTH, AND CHARACTERISTICS OF ALL UTILITIES THROUGHOUT THE APPROPRIATE UTILITIES LOCATIONS. CALL BEFORE YOU DIG. (813) 484-7474.
- ALL VERTICAL RADII ARE 400' UNLESS OTHERWISE NOTED.



811 Know what's below. Call before you dig.

**PRELIMINARY**  
**NOT FOR CONSTRUCTION**

JOB #	149307	DRAWING #	P1-3
SHEET NO	3 OF 5	REV NO	C
PLAN & PROFILE VIEW			
STA. 217+00 TO 226+00			

MIAMI BEACH TO ALTON  
69KV UNDERGROUND TRANSMISSION LINE

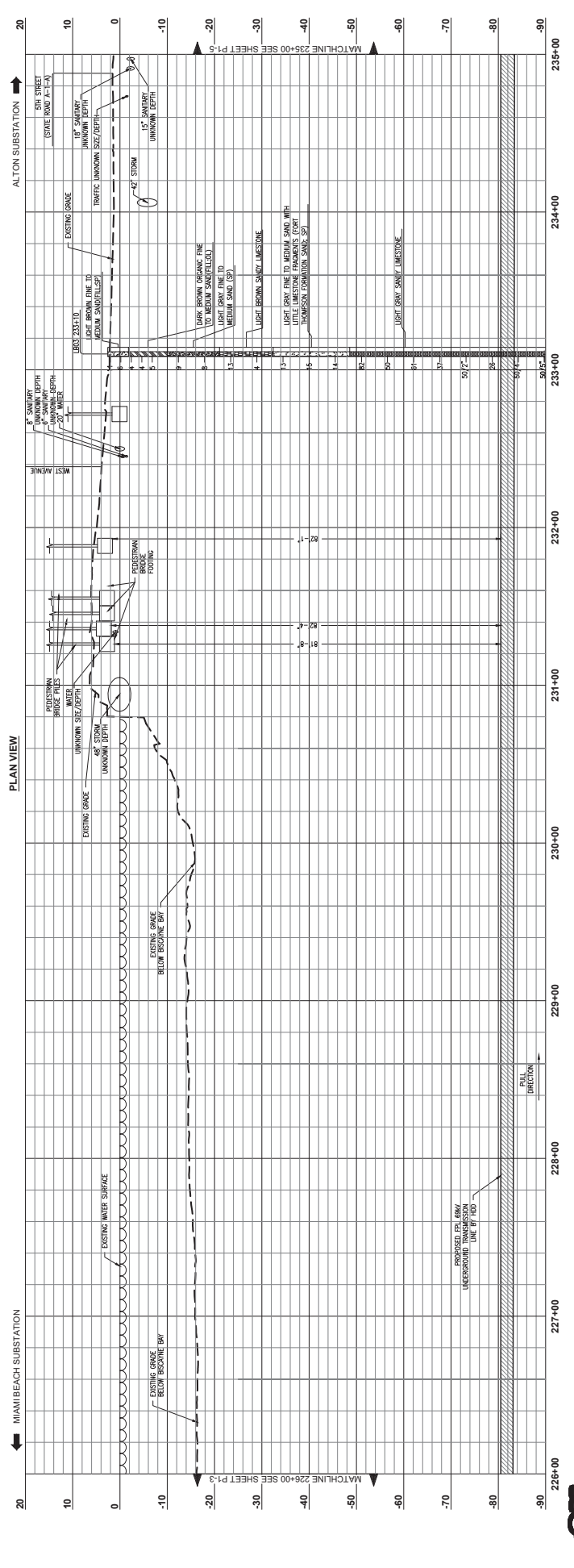
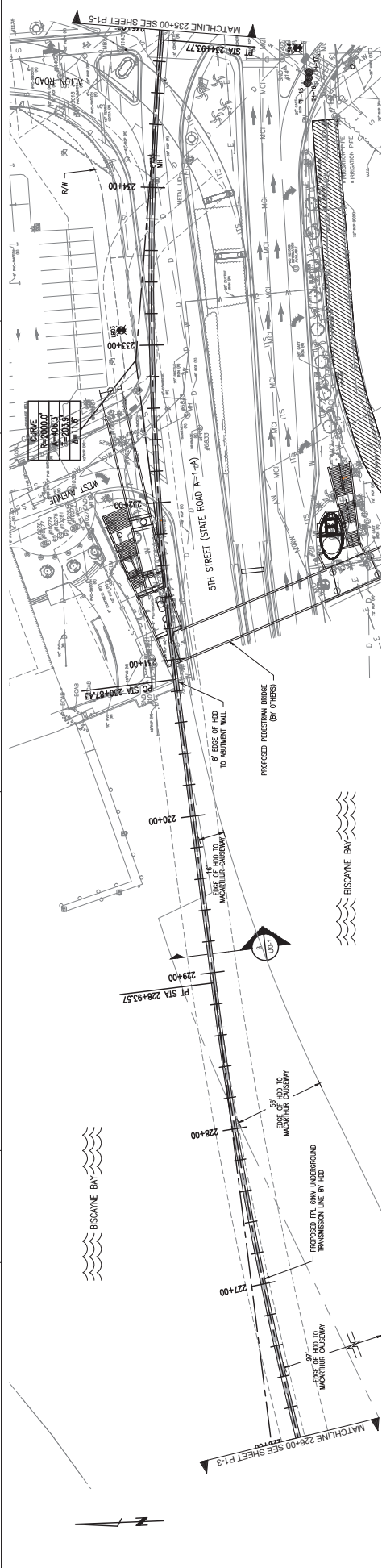
DATE	01-17-2018	SCALE	AS SHOWN
DR	DSH	ER	BEJ
CH	BNF	CCOR	
BY	CH	APPROVED	

ISSUED FOR PERMIT	BY	CH	CCOR/APP
ISSUED FOR PERMIT	BY	DSH	BNF
ISSUED FOR PERMIT	BY	DSH	BNF
ISSUED FOR PERMIT	BY	DSH	BNF

ISSUED FOR PERMIT	BY	CH	CCOR/APP
ISSUED FOR PERMIT	BY	DSH	BNF
ISSUED FOR PERMIT	BY	DSH	BNF
ISSUED FOR PERMIT	BY	DSH	BNF

ISSUED FOR PERMIT	BY	CH	CCOR/APP
ISSUED FOR PERMIT	BY	DSH	BNF
ISSUED FOR PERMIT	BY	DSH	BNF
ISSUED FOR PERMIT	BY	DSH	BNF

ISSUED FOR PERMIT	BY	CH	CCOR/APP
ISSUED FOR PERMIT	BY	DSH	BNF
ISSUED FOR PERMIT	BY	DSH	BNF
ISSUED FOR PERMIT	BY	DSH	BNF



**811**  
Know what's below.  
Call before you dig.

**69kV POWER ENGINEERS**

**NOTES:**

- THE UTILITIES SHOWN HEREON ARE BASED ON RECORD DOCUMENTS. OTHER UTILITIES MAY EXIST NOT DISCOVERED THROUGH THE RECORD CHECK. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, DEPTH, POSITION AND VERTICAL OF ALL UTILITIES THROUGH THE APPROPRIATE UTILITY COMPANIES. CALL BEFORE YOU DIG (811) AT (305) 462-4474.
- ALL VERTICAL RODS ARE 400' UNLESS OTHERWISE NOTED.

**PROFILE VIEW**

HORIZONTAL SCALE 1" = 30'

VERTICAL SCALE 1" = 10'

**PRELIMINARY NOT FOR CONSTRUCTION**

**811**  
Know what's below.  
Call before you dig.

**69kV POWER ENGINEERS**

**FLORIDA POWER & LIGHT**

DATE: 01-17-2018 SCALE: AS SHOWN

DR: DSH ER: DEJ

CH: BWF LOR

APPROVED

**MIAMI BEACH TO ALTON**

69KV UNDERGROUND TRANSMISSION LINE

JOB # 149307 DRAWING # P1-4

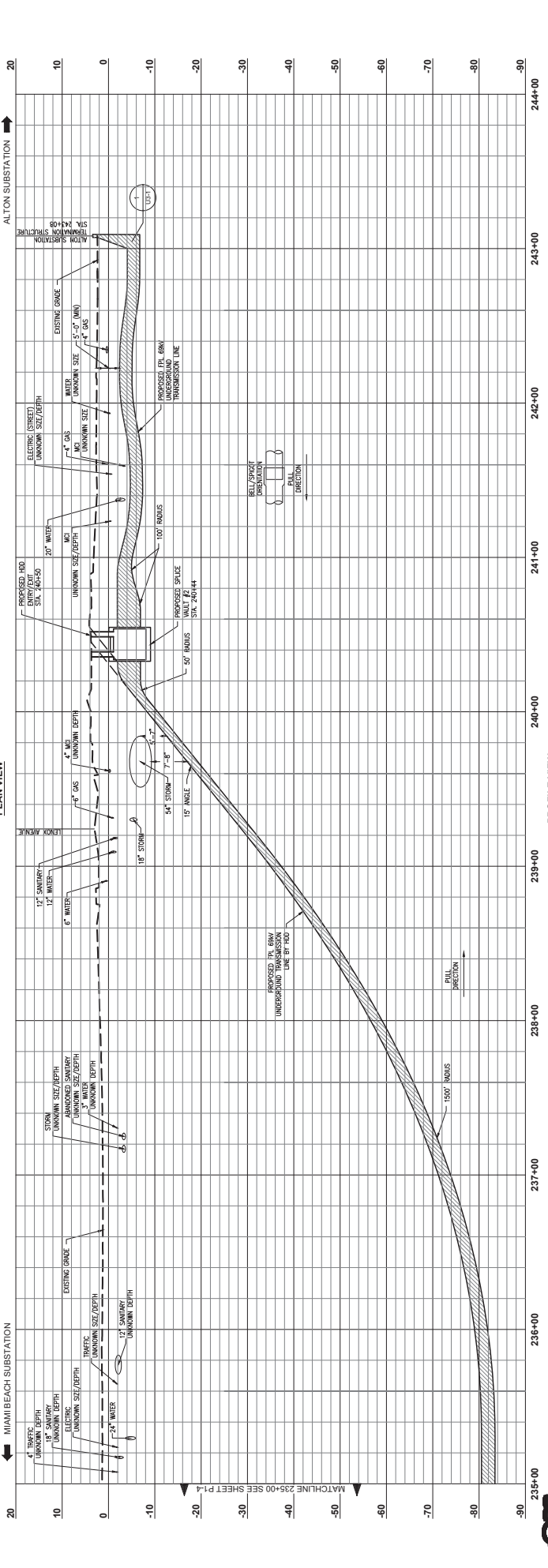
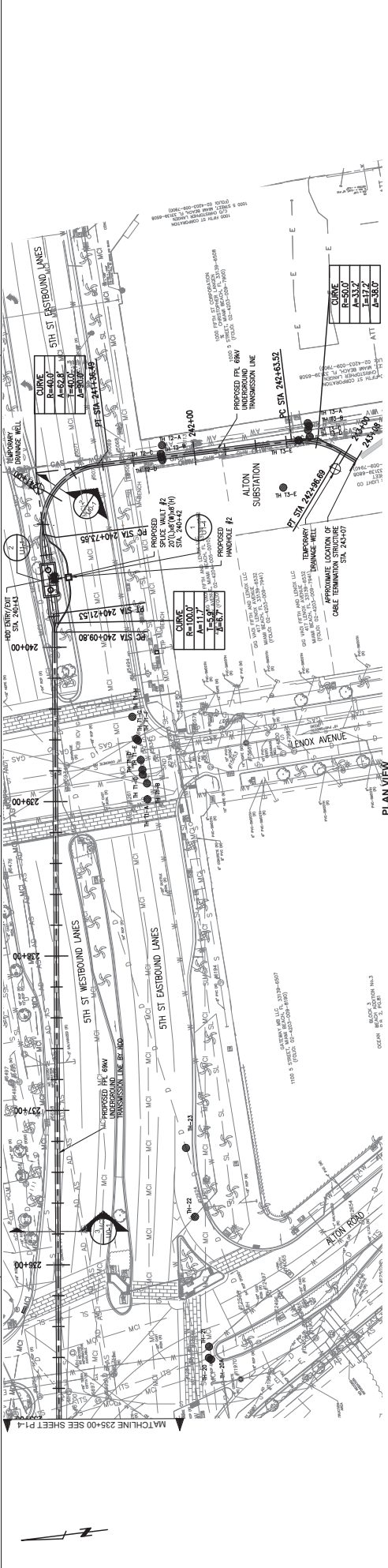
SHEET 4 OF 5

PLAN & PROFILE VIEW

STA. 226+00 TO 235+00

REVISION

NO.	DATE	BY	CHK	DESCRIPTION
1	08-25-20	MACARTHUR CAUSEWAY (ATA)	ISSUED FOR PERMIT	
2	12-18-19	MACARTHUR CAUSEWAY (ATA)	ISSUED FOR PERMIT	
3	07-24-19	ISSUED FOR PERMIT		



**811**

Know what's below.  
Call before you dig.

**603 POWER ENGINEERS**

DATE: 01-17-2018  
SCALE: AS SHOWN  
FLORIDA POWER & LIGHT  
DR: DSH  
CH: BWF  
ER: DEJ  
COR: APPROVED

PROFILE VIEW

HORIZONTAL SCALE 1" = 30'

VERTICAL SCALE 1" = 10'

**PRELIMINARY**  
NOT FOR CONSTRUCTION

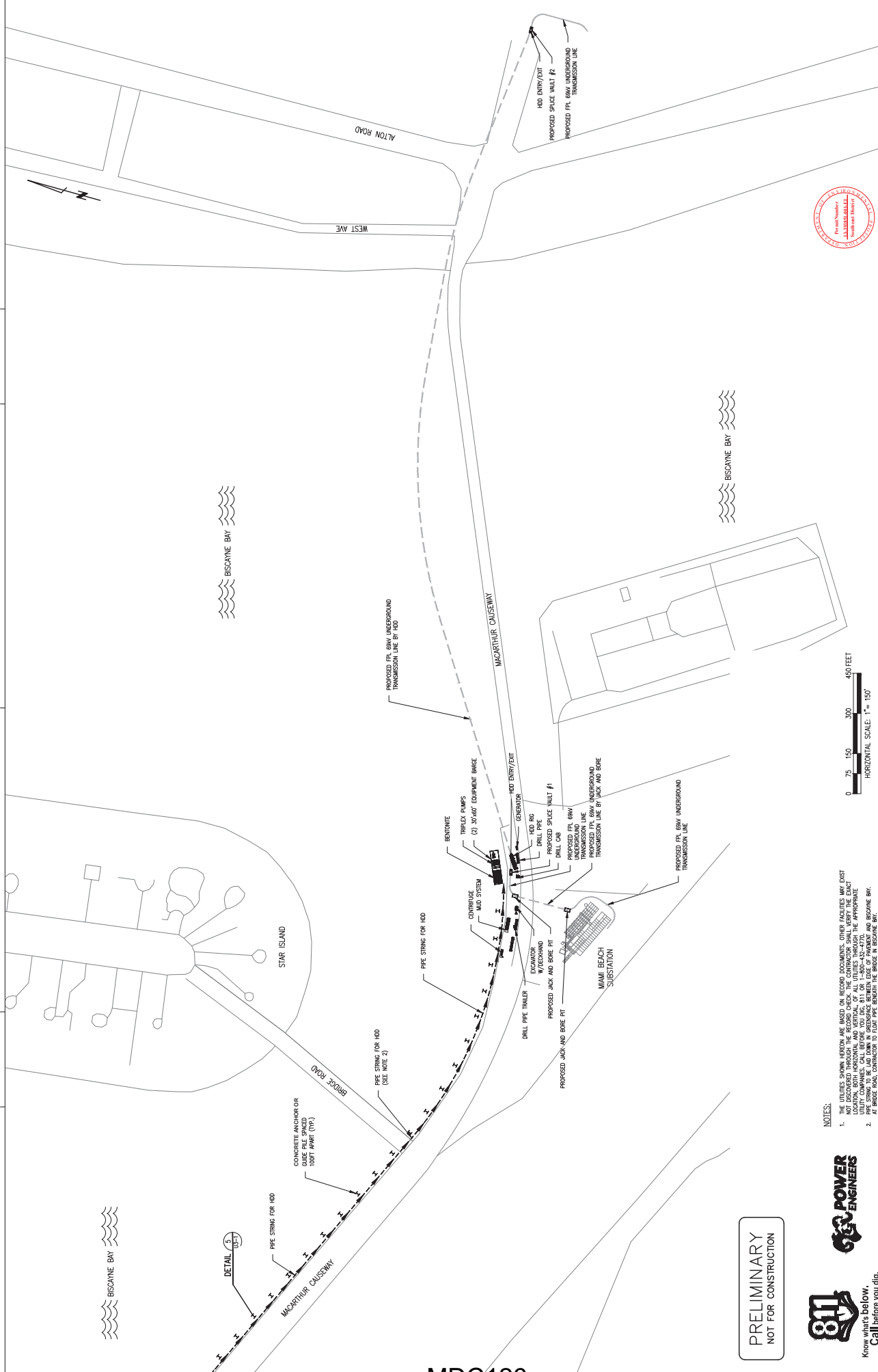
JOB # 149307 DRAWING # P1-5  
SHEET 5 OF 5  
PLAN & PROFILE VIEW  
STA. 235+00 TO 243+07

MIAMI BEACH TO ALTON  
69KV UNDERGROUND TRANSMISSION LINE

DATE: 01-17-2018  
SCALE: AS SHOWN  
FLORIDA POWER & LIGHT  
DR: DSH  
CH: BWF  
ER: DEJ  
COR: APPROVED


REVISION

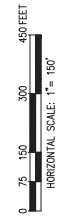
NO.	DATE	BY	CHK	APP	REVISION
1	05-19-20	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
2	05-19-20	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
3	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
4	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
5	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
6	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
7	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
8	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
9	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
10	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
11	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
12	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
13	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
14	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
15	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
16	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
17	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
18	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
19	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		
20	07-24-19	MACARTHUR CAUSEWAY (AA)	ISSUED FOR PERMIT		



JOB # 148307 DRAWING # PG-1  
 SHEET 1 OF 1  
 PIPE LAYDOWN AREA G

MIAMI BEACH TO ALTON  
 69kV UNDERGROUND TRANSMISSION LINE

DATE	01-17-2018	SCALE	1"=150'
DR.	BWF	ER.	DEJ
CHK.	TBB	COR.	
APPROVED			



NOTES:

- THE UTILITIES SHOWN HEREON ARE BASED ON RECORD DOCUMENTS. OTHER FACILITIES MAY EXIST UNDETECTABLE TO THE SURFACE. THE LOCATION, BOTH HORIZONTAL AND VERTICAL, OF ALL UTILITIES THROUGHOUT THE APPROPRIATE LAYDOWN AREA SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.
- AT BRIDGE ROAD, CONTRACTOR TO FLOAT PIPE THROUGH THE BRIDGE IN BISCAYNE BAY.

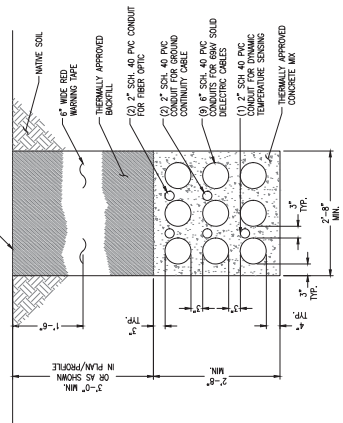


PRELIMINARY  
 NOT FOR CONSTRUCTION

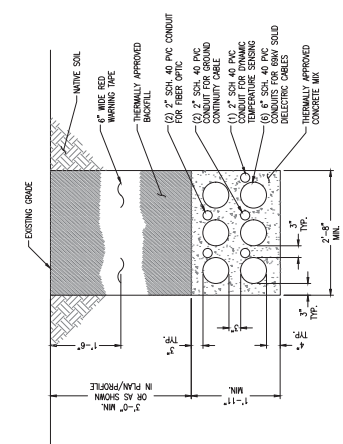


REV.	NO.	DATE	DESCRIPTION	BY	CHK.	APP.
DEJ	C	08-25-20	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT			
ER.	NSJ	DATE				
DEJ	F	05-19-20	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT			
DEJ	E	03-03-20	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT			
DEJ	D	12-11-19	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT			
DEJ	C	10-18-19	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT			
DEJ	B	07-24-19	ISSUED FOR PERMIT			
DEJ	A	07-24-19	ISSUED FOR PERMIT			

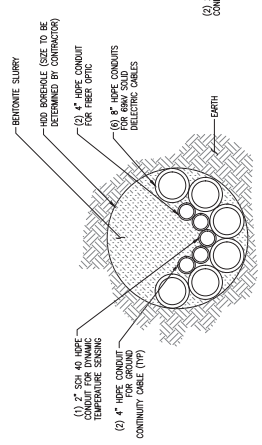
MDC126



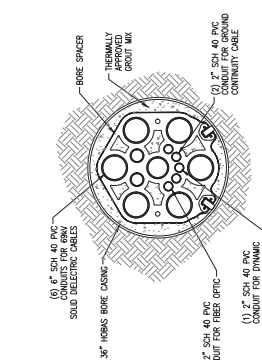
TYP 2X3 TRENCH SECTION  
DETAIL  
SCALE N.T.S. 1 UD-1



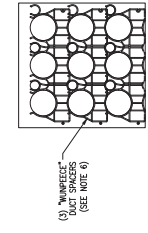
TYP 3X3 TRENCH SECTION  
DETAIL  
SCALE N.T.S. 2 UD-1



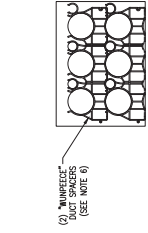
TYP 2X3 CROSS SECTION  
DETAIL  
SCALE N.T.S. 3 UD-1



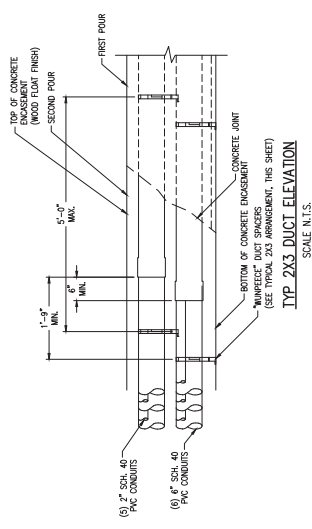
TYP 3X3 AND BORE CROSS SECTION  
DETAIL  
SCALE N.T.S. 4 UD-1



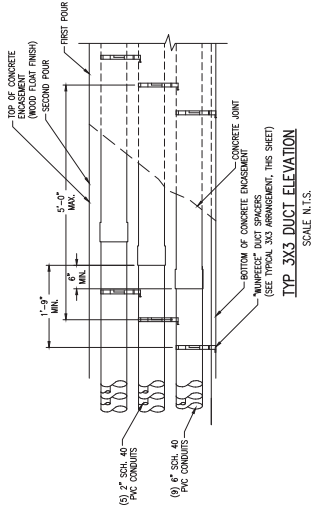
TYP 2X3 DUCT SPACER ARRANGEMENT  
SCALE N.T.S.



TYP 3X3 DUCT SPACER ARRANGEMENT  
SCALE N.T.S.



TYP 2X3 DUCT ELEVATION  
SCALE N.T.S.



TYP 3X3 DUCT ELEVATION  
SCALE N.T.S.

- NOTES:
1. STAGGER CONDUIT BELLED ENDS BY A MIN OF 6".
  2. CONDUIT ALL JOINTS IN ACCORDANCE WITH CONDUIT MANUFACTURER'S SPECIFICATIONS.
  3. AVOID STANDING ON CONDUITS DURING INSTALLATION.
  4. BELLED ENDS SHALL BE INSTALLED ALL IN THE SAME DIRECTION BETWEEN WALLS.
  5. FERROUS MATERIAL SHALL NOT BE USED UNLESS APPROVED BY OWNER OR ENGINEER.
  6. ALL DUCT SPACERS ARE UNDERGROUND ENCASED "MINIFEEET" SPACERS, OR APPROVED EQUIVALENT.
  7. CONTRACTOR TO INSTALL 6" WIDE RED MARKING TAPE 1'-6" BELOW THE EXISTING GRADE.
  8. DUCTBANK ASSEMBLY SHALL BE SECURED TO PREVENT FLOATING DURING CONCRETE PLACEMENT. FERROUS MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER OR ENGINEER.
  9. SPARE DUCT SHALL BE STUBBED AND CAPPED 2'-0" FROM END OF DUCTBANK IN SUBSTITUTIONS.

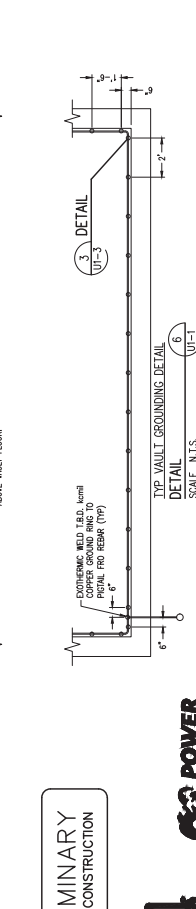
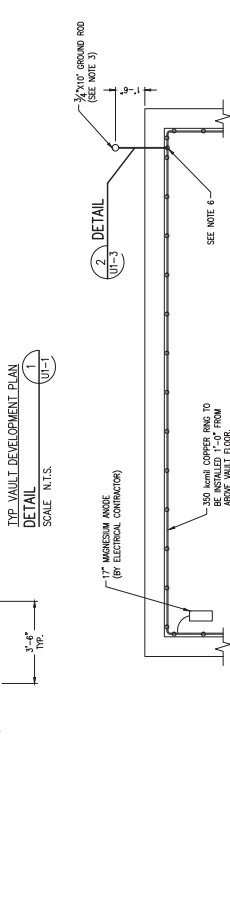
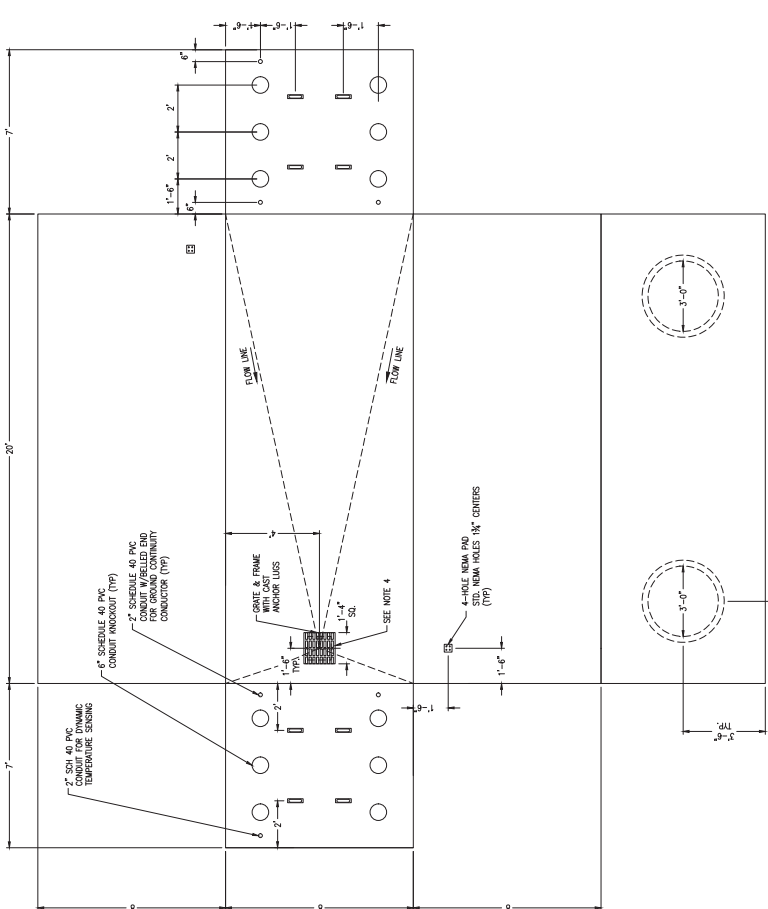


Know what's below.  
Call before you dig.



PRELIMINARY  
NOT FOR CONSTRUCTION

JOB # 14307		DRAWING # UD-1	
SHEET 1 OF 1		TRENCH DETAILS	
MIAMI BEACH TO ALTON 69KV UNDERGROUND TRANSMISSION LINE			
DATE	01-17-2018	SCALE	AS SHOWN
DR.	BWF	ER.	DEJ
CHK.	TBB	COR.	
APPROVED			
ISSUED FOR PERMIT	REVISION	ISSUED FOR PERMIT	REVISION
DEJ 05-19-20	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT	DISH TBB	
DEJ 03-03-20	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT	DISH TBB	
DEJ 12-11-19	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT	DISH TBB	
DEJ 10-18-19	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT	DISH TBB	
DEJ 07-24-19	ISSUED FOR PERMIT	BWF TBB	
DEJ 06-24-19	REVISION	BWF TBB	
DEJ 05-24-19	REVISION	DEJ TBB	



**NOTES:**

- ALL DIMENSIONS ARE INSIDE DIMENSIONS.
- PULLING INFRAME AREAS SHALL BE RATED FOR 30,000LB TENSION, MINIMUM.
- ALL CABLE MOUNTING EQUIPMENT TO BE PROVIDED BY CONTRACTOR.
- SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" DEEP.
- CABLE AND ACCESSORIES CONTRACTOR TO FIELD VERIFY ACTUAL VAULT DEPTH AND IS RESPONSIBLE FOR ALL WORKING IN VAULT.
- CABLE AND ACCESSORIES CONTRACTOR IS RESPONSIBLE FOR INTERIOR COPPER RISAL CONNECTIONS TO GROUND RING.
- ALL CONTRACTORS ARE RESPONSIBLE FOR ALL OF THEIR OWN SAFETY & ENTRY/EXIT REQUIREMENTS WHEN WORKING IN VAULT.
- ALL CHIMNEY RINGS SHALL BE MOUNTED OR OTHERWISE "TIED" TO PREVENT HORIZONTAL DISPLACEMENT AND SHALL BE SECURELY ANCHORED TO VAULT ROOF.
- REINFORCING STEEL SHALL BE BENT TO SOFT DRINK BARE COPPER BONDING JAMPS, TYPICAL (2) PLACES PER VAULT SECTION.
- MULLSECTION VAULTS SHALL INCORPORATE EITHER SHIP-LAP OR TONGUE AND GROOVE JOINTS UTILIZING APPROPRIATE SUCRAL POLYURETHANE OR ELASTOMERIC SEALANTS, KEANT FROM EACH SECTION SHALL BE BONDED TOGETHER AT JOINTS USING SUCRAL POLYURETHANE OR ELASTOMERIC SEALANTS, TYPICAL (2) PLACES PER VAULT SECTION.
- FINA VAULT DIMENSIONS SHALL BE VERIFIED BY CABLE CONTRACTOR.
- THE MANHOLE DESIGN, WHETHER CAST-IN-PLACE OR PRECAST, SHALL COMPLY AS REQUIRED WITH THE FOLLOWING:
  - AMERICAN CONCRETE INSTITUTE (ACI) 318
  - AMERICAN CONCRETE INSTITUTE (ACI) 319
  - ALL SPECIFICATIONS REFERENCED SHALL BE THE LATEST EDITION
- SEE SPECIFICATION SECTION 22120 "MANHOLES" FOR MATERIAL AND FABRICATION REQUIREMENTS.
- MANHOLE SHALL BE DESIGNED FOR AMERICAN ASSOCIATION OF HIGHWAY AND STATE TRANSPORTATION (AASHTO) HS-20 WHEEL LOADING.
- MANHOLES SHALL BE DESIGNED IN COMPLIANCE WITH ASTM C957-97, "STANDARD PRACTICE FOR MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES," (LATEST EDITION).
- MANHOLES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C958-83, "STANDARD SPECIFICATIONS FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES."
- MANHOLES SHALL BE DESIGNED PER ACI 318-08 "BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE" AND AASHO LOAD RESISTANCE FACTORED DESIGN "BRIDGE DESIGN SPECIFICATIONS," (LATEST EDITION).
- DESIGN LOADS SHALL CONSIST OF DEAD LOAD, LIVE LOAD, IMPACT, SURCHARGE LOAD, AND ANY OTHER LOADS WHICH MAY BE IMPOSED UPON THE STRUCTURE WHEEL LOADING SHALL BE HS-20.
- CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4000 PSI @ 28 DAYS. CONCRETE MIX DESIGN SHALL BE SUBMITTED AND APPROVED PRIOR TO CONSTRUCTION AND IS SUBJECT TO APPROVAL BY THE FDOT DESIGN REPRESENTATIVE.
- CONCRETE SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- CONCRETE CYLINDER SAMPLES SHALL BE COLLECTED AND TESTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- ALL PULLING EYES SHALL BE RATED FOR 40K LBS.
- GROUND CONNECTIONS SHALL USE COLD WELD OR AN APPROVED EQUAL 4 HOLE NEMA PAD SHALL BE USED AS A GROUND CONNECTION INSIDE MANHOLE.
- MANUFACTURER SHALL FACTORY-INSTALL AND SEAL BELLED ENDS IN ALL CONDUIT OPENINGS.
- WHERE A 6 INCH POWER CABLE CONDUIT ENTERS MANHOLE, THE WALL SHALL BE REVEALED SUCH THAT WALLS CAN BE SLOPED BACK TO KEEP SHARP EDGES AWAY FROM THE CABLE.
- REINFORCEMENT:
  - CONCRETE USED IN THE CONSTRUCTION OF THE MANHOLES SHALL CONTAIN STEEL REINFORCING BARS TO CONFORM TO ALL APPLICABLE BUILDING CODES.
  - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615-GRADE 60
  - REINFORCING BAR STEEL CERTIFICATIONS SHALL BE PROVIDED TO THE OWNER.
- MANHOLE COVER AND FRAME SHALL BE SUPPLIED BY THE CIVIL CONTRACTOR.
- MANHOLE FLOOR SUMP:
  - PROVIDE CONCRETE SUMP FITS AS SHOWN ON THE DRAWINGS OF THE FLOOR OF EACH MANHOLE FOR THE COLLECTION OF ANY WATER WHICH MIGHT ENTER THE MANHOLE.
  - CONCRETE SUMP SHALL BE 1/8" DEEP AND SHALL BE SLOPED TO EACH PIT.
  - THE MANHOLE FLOOR SHALL SLOPE TOWARD THE SUMP WITH A MINIMUM SLOPE OF 1/8 INCH PER FOOT.
  - THE SUMP SHALL HAVE A CONCRETE BOTTOM AND SHALL BE 12 INCHES SQUARE BY 4 INCHES DEEP AS SHOWN ON THE DRAWINGS.
  - THE SUMP SHALL BE 1/2" WIDER THAN SUMP FOR EACH OF THE MANHOLES FOR EQUAL TO APPROVED BY THE OWNER.
  - SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" DEEP.

MIAMI BEACH TO ALTON - SPICE VAULT CHART			
SPICE VAULT #	STATION	LENGTH (feet)	WIDTH (feet)
1	207+79	20	8



DATE	SCALE	AS SHOWN	DR.	BY	ER.	DES.
01-17-2018	FLORIDA POWER & LIGHT	AS SHOWN	DR.	BMF	ER.	DEA
			CHK.	TBB	CHK.	COR
			APPROVED			

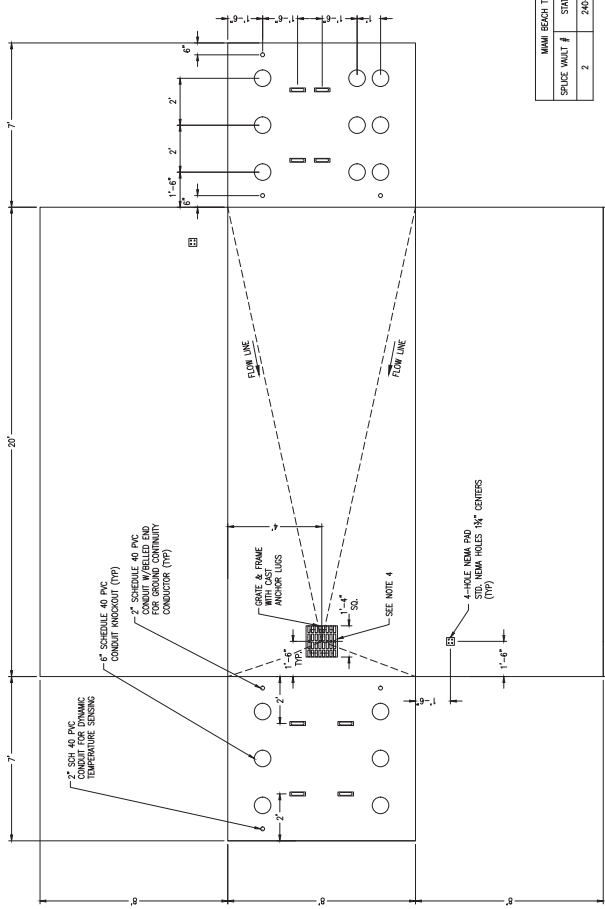
REV.	DATE	DESCRIPTION	BY	CHK.	APP.
01	05-19-20	ISSUED FOR PERMIT	BMF	JTB	DEA
02	03-03-20	ISSUED FOR PERMIT	BMF	JTB	DEA
03	12-11-19	ISSUED FOR PERMIT	BMF	JTB	DEA
04	10-18-19	ISSUED FOR PERMIT	BMF	JTB	DEA
05	07-24-19	ISSUED FOR PERMIT	BMF	JTB	DEA
06	01-24-19	ISSUED FOR PERMIT	BMF	JTB	DEA

PRELIMINARY  
NOT FOR CONSTRUCTION

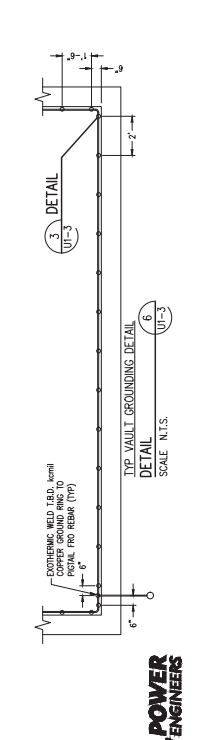
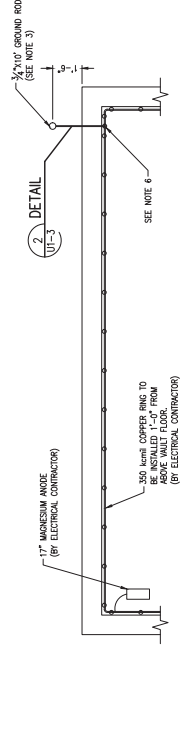
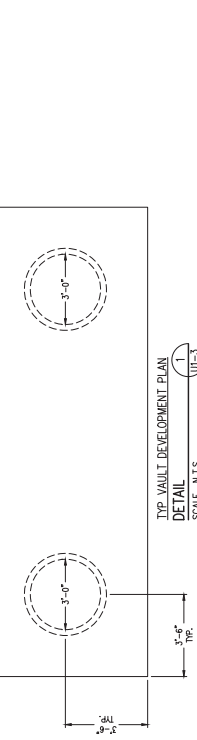


Know what's below.  
Call before you dig.





MIAMI BEACH TO ALTON - SPUR VULT CHART			
SPUR VULT #	STATION	LENGTH (feet)	WIDTH (feet)
2	240+42	20	8



**NOTES:**

- ALL DIMENSIONS ARE INDE DIMENSIONS.
- FIELDING HARDWARE AREAS SHALL BE RATED FOR 30,000 LB TENSION, MINIMUM.
- ALL CABLE MOUNTING EQUIPMENT TO BE GROUNDED BY CONTRACTOR.
- SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" DEEP.
- CABLE AND ACCESSORIES CONTRACTOR TO FIELD VERY ACTUAL VAULT DEPTH AND IS RESPONSIBLE FOR ALL CABLE MOUNTING EQUIPMENT.
- CABLE AND ACCESSORIES CONTRACTOR IS RESPONSIBLE FOR INTERIOR COPPER CRITICAL CONNECTIONS TO GROUND RING.
- ALL CONTRACTORS ARE RESPONSIBLE FOR ALL OF THEIR OWN SAFETY & ENTRY/EXIT REQUIREMENTS WHEN WORKING IN VAULT.
- ALL CHIMNEY RINGS SHALL BE MORTARED OR OTHERWISE "KEYED" TO PREVENT HORIZONTAL DISPLACEMENT AND SHALL BE SECURELY MORTARED TO VAULT ROOF.
- REINFORCING STEEL SHALL BE BONDED TO SOFT DRAWN BARE COPPER BONDING JUMPERS, TYPICAL (2) PLACES PER VAULT SECTION.
- MULTI-SECTION VAULTS SHALL INCORPORATE EITHER SHARP OR TONGUE AND GROOVE JOINTS UTILIZING TOGETHER AT INSTALLATION USING EXOTHERMIC CONNECTIONS, TYPICAL (2) PLACES PER VAULT SECTION.
- FINAL VAULT DIMENSIONS SHALL BE VERIFIED BY CABLE CONTRACTOR.
- THE MANHOLE DESIGN WHETHER CAST-IN-PLACE OR PRECAST, SHALL COMPLY AS REQUIRED WITH THE FOLLOWING:
  - ASTM SPECIFICATIONS
  - AMERICAN CONCRETE INSTITUTE (ACI) 318
  - ALL SPECIFICATIONS REFERENCED SHALL BE THE LATEST EDITION
- SEE SPECIFICATION SECTION 2120 "MANHOLES" FOR MATERIAL AND FABRICATION REQUIREMENTS.
- MANHOLE SHALL BE DESIGNED IN COMPLIANCE WITH ASTM C897-97, "STANDARD PRACTICE FOR MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES, (LATEST REVISION), 15-20" WHEEL LOADING.
- MANHOLES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C868-83, "STANDARD SPECIFICATIONS FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES.
- MANHOLES SHALL BE DESIGNED FOR A MINIMUM DESIGN LOAD OF 150 PSF (150 LB/FT<sup>2</sup>) AND SHALL BE CAPABLE OF WITHSTANDING ALL OTHER LOADS WHICH MAY BE APPLIED TO THE STRUCTURE. WHEEL LOADING SHALL BE 1500 LB.
- CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4000 PSI @ 28 DAYS. CONCRETE AIR DESIGN SHALL BE SUBMITTED 28 DAYS PRIOR TO CONSTRUCTION AND IS SUBJECT TO APPROVAL BY THE DESIGN REPRESENTATIVE.
- CONCRETE SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
- CONCRETE COLUMBER SAMPLES SHALL BE COLLECTED AND TESTED IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
- ALL PULLING EYES SHALL BE RATED FOR 40K LBS.
- GROUND CONNECTIONS SHALL USE Q&Q WELD OR AN APPROVED EQUAL. 4-HOLE NEMA PAD SHALL BE USED AS A GROUND CONNECTION INSIDE MANHOLE.
- MANUFACTURER SHALL FACTORY-INSTALL AND SEAL BELLED ENDS IN ALL CONDUIT OPENINGS.
- WHERE 6 INCH POWER CABLE CONDUITS ENTER MANHOLE, THE WALL SHALL BE BONDED SUCH THAT WALLS CAN BE SLOPED BACK TO KEEP SHARP EDGED AWAY FROM THE CABLE.
- REINFORCING:
  - ALL CONCRETE USED IN THE CONSTRUCTION OF THE MANHOLES SHALL CONTAIN STEEL REINFORCING.
  - BARS TO CONFORM TO ALL APPLICABLE BUILDING CODES.
  - REINFORCING BARS SHALL BE SUPPLIED BY THE CIVIL CONTRACTOR.
  - REINFORCING BARS STEEL CERTIFICATIONS SHALL BE PROVIDED TO THE OWNER.
- MANHOLE COVER AND FRAME SHALL BE SUPPLIED BY THE CIVIL CONTRACTOR.
- MANHOLE FLOOR SUMP:
  - PROVIDE CONCRETE SUMP PITS AS SHOWN ON THE DRAWINGS OF THE FLOOR OF EACH MANHOLE FOR THE SUMP FLOOR TO FEED OPPOSITE SUMP PITS WITH EQUAL FLOW TO EACH PIT.
  - THE MANHOLE FLOOR SHALL SLOPE TOWARDS THE SUMP WITH A MINIMUM SLOPE OF 1/8" INCH PER FOOT.
  - THE SUMP SHALL BE 4" DEEP AND SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" DEEP AS SHOWN ON THE DRAWINGS. THE SUMP SHALL BE LOCATED AS SHOWN ON THE DRAWINGS.
  - THE SUMP SHALL BE A.C. W/FR ANGLE OR EQUAL AS APPROVED BY THE OWNER.
  - SUMP SHALL BE CAPABLE OF HANDLING SUMP PUMP, MINIMUM 4" DEEP.



**MIAMI BEACH TO ALTON**  
69kV UNDERGROUND TRANSMISSION LINE

JOB # 149307      DRAWING # UT-2  
SHEET 2 OF 4  
SPUR VULT DETAILS

DATE	01-17-2018	SCALE	AS SHOWN
DR.	BWF	ER.	DEA
CHK.	TBB	CHK.	TBB
APPROVED			

DATE: 01-17-2018      SCALE: AS SHOWN  
FLORIDA POWER & LIGHT  
BY: [Signature]      CHECKED: [Signature]

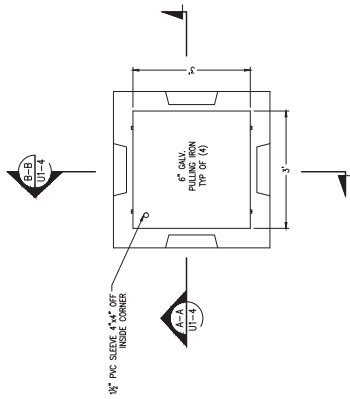
REV.	NO.	DATE	DESCRIPTION
01	1	05-19-20	MCCARTHRUR CAUSEWAY (A1A) ISSUED FOR PERMIT
02	2	03-03-20	MCCARTHRUR CAUSEWAY (A1A) ISSUED FOR PERMIT
03	3	12-11-19	MCCARTHRUR CAUSEWAY (A1A) ISSUED FOR PERMIT
04	4	10-18-19	NOT ISSUED IN SET
05	5	07-24-19	NOT ISSUED IN SET
06	6	07-24-19	NOT ISSUED IN SET

**PRELIMINARY**  
NOT FOR CONSTRUCTION

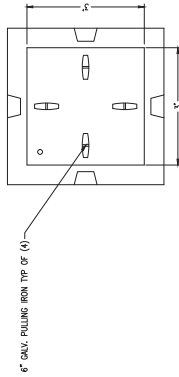


Know what's below.  
Call before you dig.

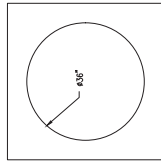




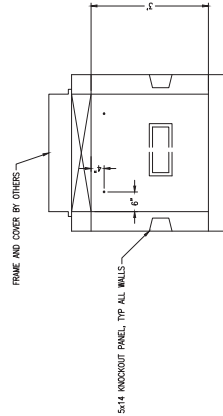
PLAN VIEW  
DETAIL  
SCALE: N.T.S.  
1  
UT-4



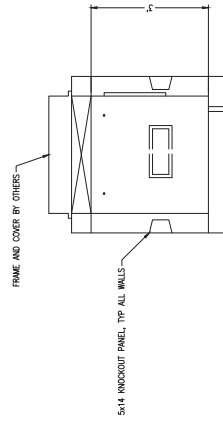
PLAN VIEW - UPPER PULLING IRON  
DETAIL  
SCALE: N.T.S.  
2  
UT-4



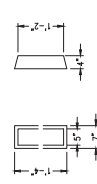
TOP SLAB - REINFORCEMENT  
DETAIL  
SCALE: N.T.S.  
3  
UT-4



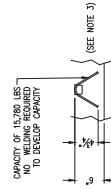
SECTION  
SCALE: N.T.S.  
A-A  
UT-4



SECTION  
SCALE: N.T.S.  
B-B  
UT-4



KNOCKOUT DETAIL  
DETAIL  
SCALE: N.T.S.  
4  
UT-4



GALVANIZED PULLING IRON DETAIL  
DATON SUPERIOR-6AUGZT  
DETAIL  
SCALE: N.T.S.  
5  
UT-4



Know what's below.  
Call before you dig.



PRELIMINARY  
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION
01	08-05-20	MCCARTHRU CAUSEWAY (A1A) ISSUED FOR PERMIT
02	01-24-19	REVISION

REV	DATE	DESCRIPTION
01	05-19-20	MCCARTHRU CAUSEWAY (A1A) ISSUED FOR PERMIT
02	03-03-20	MCCARTHRU CAUSEWAY (A1A) ISSUED FOR PERMIT
03	12-11-19	MCCARTHRU CAUSEWAY (A1A) ISSUED FOR PERMIT
04	10-18-19	NOT ISSUED IN SET
05	07-24-19	NOT ISSUED IN SET
06	07-24-19	REVISION

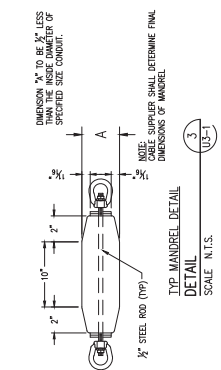
DATE	SCALE	AS SHOWN
01-17-2018	SCALE AS SHOWN	DR. BWF SCH. TBB COR
		APPROVED

JOB # 149307	DRAWING # UT-4
MIAMI BEACH TO ALTON 69kV UNDERGROUND TRANSMISSION LINE	SHEET 4 OF 4 HANDHOLE DETAILS
	REV. NO. G

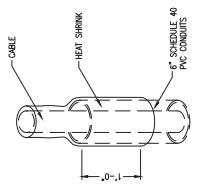
NOTES:

- 4000 PSI AIR ENTRAINED CONCRETE.
- REINFORCEMENT STEEL PER ASTM A-615, GRADE 60.
- PULLING IRONS ALSO USED FOR PRECAST INSTALLATION.
- WEIGHT OF UNIT = 4,300 LBS.

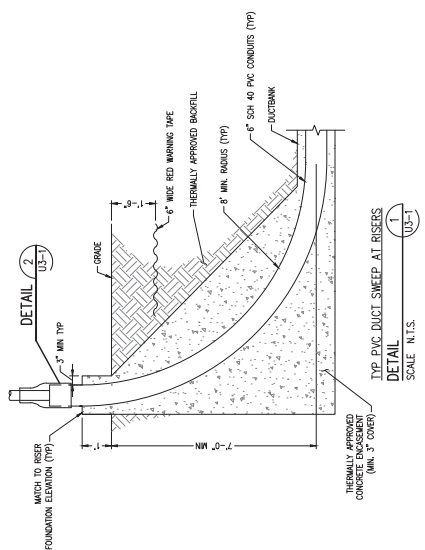




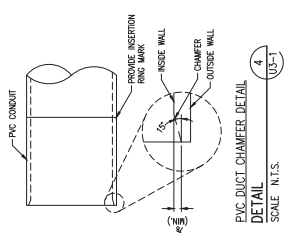
TYP. MANDREL DETAIL  
SCALE: N.T.S.



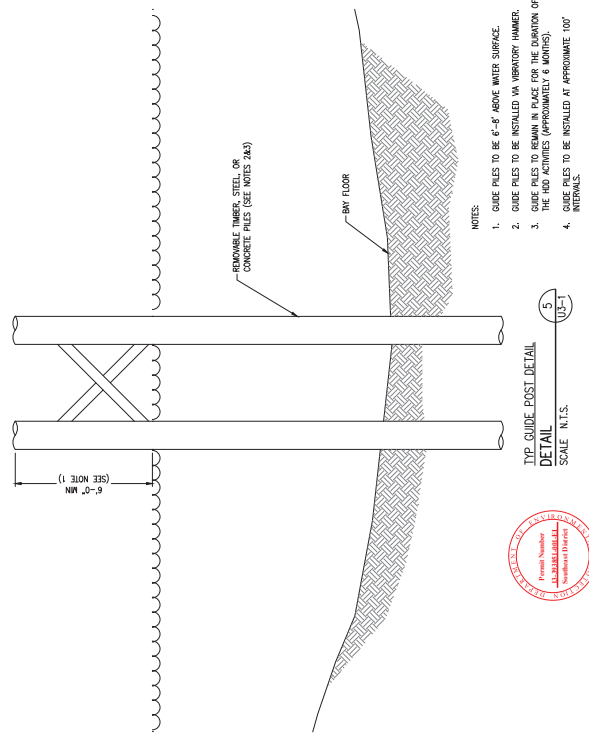
RISER STRUCTURE HEAT SHRINK DETAIL  
SCALE: N.T.S.



TYP. PVC DUCT SWEEP AT RISERS DETAIL  
SCALE: N.T.S.



PVC DUCT CHAMFER DETAIL  
SCALE: N.T.S.



TYP. GUIDE POST DETAIL  
SCALE: N.T.S.

- NOTES:
1. GUIDE PILES TO BE 6'-6" ABOVE WATER SURFACE.
  2. GUIDE PILES TO BE INSTALLED VIA VIBRODRY HAMMER.
  3. GUIDE PILES TO REMAIN IN PLACE FOR THE DURATION OF THE RD ACTIVITIES (APPROXIMATELY 6 MONTHS).
  4. GUIDE PILES TO BE INSTALLED AT APPROXIMATE 100' INTERVALS.



PRELIMINARY  
NOT FOR CONSTRUCTION



Know what's below.  
Call before you dig.

JOB # 148307		DRAWING # U3-1	
SHEET 1 OF 1		REV. NO. G	
MISCELLANEOUS DETAILS			
MIAMI BEACH TO ALTON			
69kV UNDERGROUND TRANSMISSION LINE			
DATE	01-17-2018	SCALE	AS SHOWN
DR.	DR. BWF	ER.	ER. DEJ
CHK.	CHK. TBB	COR.	COR.
APPROVED		APPROVED	
PROJECT MANAGER & SUPERVISOR		PROJECT MANAGER & SUPERVISOR	
REVISION	DATE	ISSUED FOR PERMIT	BY
BEJ	F 05-19-20	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT	BEJ
BEJ	E 03-03-20	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT	BEJ
BEJ	D 12-11-19	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT	BEJ
BEJ	C 10-18-19	MACARTHUR CAUSEWAY (A1A) ISSUED FOR PERMIT	BEJ
BEJ	B 07-24-19	ISSUED FOR PERMIT	BEJ
US	10/24/19	ISSUED FOR PERMIT	US
ER	10/24/19	ISSUED FOR PERMIT	ER

## STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at [ImperiledSpecies@myFWC.com](mailto:ImperiledSpecies@myFWC.com)
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used (see [MyFWC.com/manatee](http://MyFWC.com/manatee)). One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 1/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. Questions concerning these signs can be sent to the email address listed above.

# CAUTION: MANATEE HABITAT

All project vessels

**IDLE SPEED / NO WAKE**

When a manatee is within 50 feet of work  
all in-water activities must

**SHUT DOWN**

Report any collision with or injury to a manatee:



**Wildlife Alert:**

**1-888-404-FWCC(3922)**

cell \*FWC or #FWC

## Methods for Protection of Water Quality For Directional Bored Water Crossings

**Florida Power & Light (FPL) and the Contractor will implement the following Best Management Practices (BMP's) to minimize the potential for adverse environmental impacts during Horizontal Directional Drilling (HDD) activities:**

- BMP's for erosion control within the staging area shall be implemented and maintained at all times during drilling and back-reaming operations to prevent siltation and turbid discharges in excess of State Water Quality Standards pursuant to Rule 62-302, F.A.C. Methods shall include, but are not limited to the immediate placement of turbidity containment devices such as turbidity screen, silt containment fence, hay bails, and earthen berms, etc. to contain the drilling mud. Earthen berms shall not be utilized as to impact wetlands or other surface waters pursuant to [62-340 F.A.C.].
- FPL's contractor will utilize BMP's and will meet the maximum allowable drilling fluid pressure during HDD operations to not exceed 10 psi.

**To provide an additional level of resource protection, the following measures shall be taken to monitor any potential release of drilling fluid:**

- FPL's contractor will identify prior to commencement of construction an environmental scientist/biologist with experience in water quality monitoring and habitat protection to be used in the event of a frac-out [62-340 F.A.C.].
- At all times, adequate protection will be taken to avoid impacts to the Aquatic Preserve/Outstanding Florida Waters and contiguous wetlands. This shall include, but is not limited to halting of construction/drilling and or placement of turbidity containment devices [62-340 F.A.C.].
- A Vactor Truck shall be onsite and available at all times [62-340 F.A.C.].
- A spill Kit ( i.e., absorbent pads/boom, goggles, gloves, etc.) shall be onsite and available at all times [62-340 F.A.C.].

**Should a release occur, the following measures shall be taken:**

- If a frac-out is confirmed, all construction activity contributing to the frac-out shall cease immediately, and shall be reported to the Production Lead (PL) and Environmental Permit Specialist (EPS). No work shall continue until the Department of Environmental Protection (DEP) has issued authorization to proceed to the EPS.
- If the return drilling mud/fluid is less than the projected amount to be recovered, divers shall immediately begin their search for the missing material. Once the drilling mud and frac-out is located, then the drilling mud containment plan shall be immediately implemented [62-340 F.A.C.].

**Drilling Mud Containment Plan:**

- In the event of a frac-out, the PL shall contact the EPS immediately, whom will contact DEP immediately (within 2 hours) of the frac-out.
- The following items shall be adhered to upon guidance and authorization from DEP:
  - The scientist/biologist underwater divers will guide the suction hose of the pump to minimize both the removal of natural bottom material and the disturbance of any existing vegetation.
  - Any released material will be carefully removed to avoid impacts to seagrasses and/or resources.
  - Any escaped drilling lubricant must be pumped into filter bags or directly into a vactor truck.
  - A barge company will be contacted to transport a vactor truck should it be needed to respond "in-water".
  - Once the spill is contained, the escaped drilling lubricant shall be properly disposed of in an approved upland disposal site.
  - Clean-up with a vacuum system shall commence within 24 hours.
  - After containment/recovery of the drilling material/resources, a detailed written report shall be submitted to the DEP, within 10 business days, indicating the location of the frac-out, amount of drilling material discharged and the amount of drilling mud recovered, the process in which the drilling mud was recovered, and the area that was affected by the drilling discharge [62-340 F.A.C.].



**MEMORANDUM**  
(Revised)

**TO:** Honorable Chairman Oliver G. Gilbert, III  
and Members, Board of County Commissioners

**DATE:** February 21, 2023

**FROM:**   
Gen Bonzon-Keenan  
County Attorney

**SUBJECT:** Agenda Item No. 5(C)

Please note any items checked.

- "3-Day Rule" for committees applicable if raised
- 6 weeks required between first reading and public hearing
- 4 weeks notification to municipal officials required prior to public hearing
- Decreases revenues or increases expenditures without balancing budget
- Budget required
- Statement of fiscal impact required
- Statement of social equity required
- Ordinance creating a new board requires detailed County Mayor's report for public hearing
- No committee review
- Applicable legislation requires more than a majority vote (i.e., 2/3's present \_\_\_\_, 2/3 membership \_\_\_\_, 3/5's \_\_\_\_, unanimous \_\_\_\_, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) \_\_\_\_, CDMP 2/3 vote requirement per 2-116.1(3)(h) or (4)(c) \_\_\_\_, or CDMP 9 vote requirement per 2-116.1(4)(c)(2) \_\_\_\_ ) to approve
- Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required



Approved \_\_\_\_\_ Mayor  
Veto \_\_\_\_\_  
Override \_\_\_\_\_

Agenda Item No. 5(C)  
2-21-23

RESOLUTION NO. \_\_\_\_\_

RESOLUTION TAKING ACTION ON A CLASS I PERMIT APPLICATION AND REQUEST FOR A VARIANCE BY FLORIDA POWER AND LIGHT COMPANY FOR THE TEMPORARY STAGING OF TRANSMISSION LINES IN TIDAL WATERS ALONG THE MACARTHUR CAUSEWAY, MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA

**WHEREAS**, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA**, that this Board having considered all the applicable factors contained within section 24-48.3 and section 24-48.25 of the Code of Miami-Dade County, hereby approves the application by Florida Power and Light Company for the temporary staging of transmission lines in tidal waters along the MacArthur Causeway and for a variance from section 24-48.23 of the Code of Miami-Dade County for floating structures with a non-water dependent use over tidal waters within Biscayne Bay in the City of Miami Beach, Miami-Dade County, Florida, subject to the conditions set forth in the memorandum from the Miami-Dade County Department of Regulatory and Economic Resources, a copy of which is attached hereto and made a part hereof. The issuance of this approval does not relieve the applicant from obtaining all applicable Federal, State, and local permits.

The foregoing resolution was offered by Commissioner \_\_\_\_\_, who moved its adoption. The motion was seconded by Commissioner \_\_\_\_\_ and upon being put to a vote, the vote was as follows:

Oliver G. Gilbert, III, Chairman  
Anthony Rodríguez, Vice Chairman

Marleine Bastien	Juan Carlos Bermudez
Kevin Marino Cabrera	Sen. René García
Roberto J. Gonzalez	Keon Hardemon
Danielle Cohen Higgins	Eileen Higgins
Kionne L. McGhee	Raquel A. Regalado
Micky Steinberg	

The Chairperson thereupon declared this resolution duly passed and adopted this 21<sup>st</sup> day of February, 2023. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA  
BY ITS BOARD OF  
COUNTY COMMISSIONERS

LUIS G. MONTALDO, CLERK AD INTERIM

By: \_\_\_\_\_  
Deputy Clerk

Approved by County Attorney as  
to form and legal sufficiency.

CJW

Abbie Schwaderer-Raurell  
Christopher J. Wahl