

**From:** [Thompson, Allison](#)  
**To:** [SCQ](#)  
**Cc:** [Seiler, Ann](#); [Mulkey, Cindy](#)  
**Subject:** FPL RBEC Amendment Request  
**Date:** Monday, May 9, 2022 11:15:41 AM  
**Attachments:** [RBEC Discharge Pipe Ammendment Letter PostCertification Amendment \(PA 09-54D\).pdf](#)

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**EXTERNAL MESSAGE**

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Good morning,

Please see attached a post-certification amendment request for the FPL Riviera Beach Energy Center (PPSA No. PA09-54D). Please feel free to contact me if there are any questions.

Thank you,

**Allison Thompson**

Environmental Services, Florida Power & Light (FPL)

O: 561-694-3771 | C: 561-876-5745

[Allison.Thompson@fpl.com](mailto:Allison.Thompson@fpl.com)

Join our team! We have exciting opportunities available on our renewables team:

Permitting, [Environmental Project Manager \(nexteraenergy.com\)](#)

Permitting, [Senior Environmental Specialist \(nexteraenergy.com\)](#)

Permitting, [Environmental Specialist 2 \(nexteraenergy.com\)](#)

Gopher tortoise agent, [Environmental Specialist 2 \(nexteraenergy.com\)](#)

Gopher tortoise agent, [Associate Environmental Specialist \(nexteraenergy.com\)](#)



May 9, 2022

Ms. Cindy Mulkey  
Florida Department of Environmental Protection  
Siting Coordination Office  
2600 Blairstone Road, MS 5500  
Tallahassee, FL 32399-2400

RE: Florida Power & Light Company  
Riviera Beach Energy Center – Discharge Circulating Water Outfall Pipes  
Post-Certification Amendment (PA 09-54D)

Dear Ms. Mulkey:

Florida Power & Light Company (FPL) is requesting a post-certification amendment to the Site Certification for FPL's Riviera Beach Energy Center, pursuant to rule 62-17.205(1)(A) F.A.C. The purpose of this amendment is to obtain approval to extend the current discharge overflow structure pipe directly into the manatee lagoon area which will be in line with the existing 16-inch pipes. The site location and location of the discharge pipes can be found in Attachment A. Activities will consist of extending the 12-inch diameter pipes along the existing structure which will be inserted about 4-feet into the lagoon area. The pipes will be capped at the ends and will include 4x6" perforated holes near the end of the pipes for water to exit into the lagoon as indicated in Attachment B. The purpose of this work is to direct overflow water into the lagoon versus splashing onto the discharge structure as shown in Attachment C. No in-water work is proposed and there will be no change of water temperature or sediment displacement because of this work.

If you have any comments or questions regarding the attached, please feel free to contact Allison Thompson at (561) 694-3771.

Sincerely,

A handwritten signature in black ink, appearing to read 'Allison'.

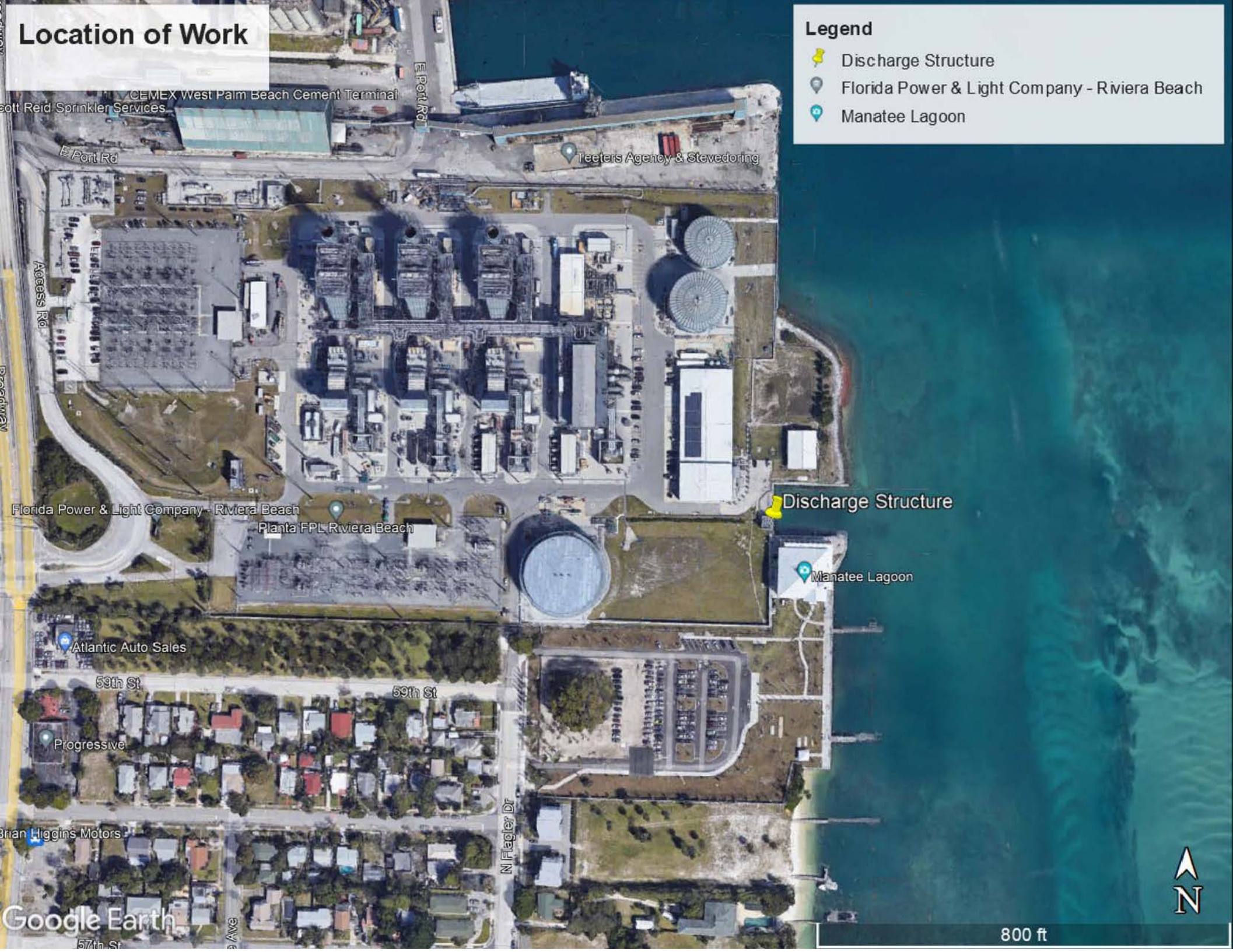
Allison Thompson  
FPL Environmental Specialist

## **Attachment A**

# Location of Work

## Legend

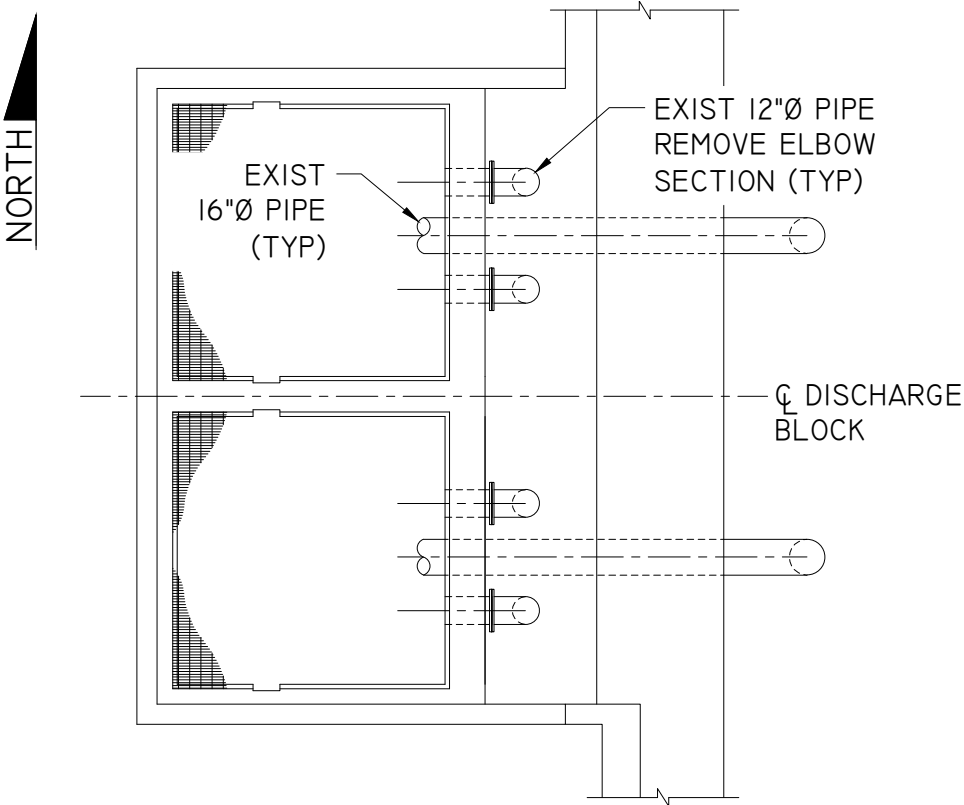
-  Discharge Structure
-  Florida Power & Light Company - Riviera Beach
-  Manatee Lagoon



## **Attachment B**

GENERAL NOTES:

1. COORDINATE ALL WORK WITH OPERATIONS AND MAINTENANCE PERSONNEL. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE APPLICABLE FPL PROCEDURES, SPECIFICATIONS AND STANDARDS.
2. DIMENSIONS AND FINAL LOCATIONS SHALL BE FIELD VERIFIED BY CONTRACTOR FOR PROPER FIT PRIOR TO FABRICATION AND INSTALLATION.
3. PROCUREMENT, FABRICATION AND INSTALLATION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION AND THE FPL STEEL CONSTRUCTION SPECIFICATION, REV. 0.
4. ALL STEEL SHALL BE TYPE 316 STAINLESS STEEL IN ACCORDANCE WITH ASTM A240..
5. GUARDRAIL HORIZONTAL RAILS SHALL BE 1½"Ø SCHEDULE 40 PIPE. VERTICAL POSTS SHALL BE 1½"Ø, SCHEDULE 80 PIPE.
6. WELDING SHALL BE IN ACCORDANCE WITH AWS STRUCTURAL WELDING CODE DI.6 AND THE AISC MANUAL OF STEEL CONSTRUCTION.
7. BOLTS/NUTS SHALL BE TIGHTENED TO SNUG TIGHT CONDITION.
8. BOLTS HOLES SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
9. GRATING SHALL BE TYPE W-19-4, WELDED, SERRATED AND STAINLESS. BEARING BARS SHALL BE 3/16" WIDE BY 1¼" INCHES DEEP. SPACING FOR BEARING BARS SHALL BE 1 3/16" INCHES CENTER-TO-CENTER. EACH GRATING PANEL SHALL BE FASTENED TO STEEL FRAMING STRUCTURE AT FOUR (4) PLACES USING HILTI GRATING DISK X-FCM-R WITH ASSOCIATED THREADED STUDS OR ENGINEERING APPROVED EQUAL.
10. GROUT UNDER BASE PLATES SHALL BE MASTERFLOW 928 OR ENGINEERING APPROVED EQUAL.
- II. PLATFORM:
- II.1. PLATFORM SHALL BE DESIGNED PER ASCE 7 STANDARD, EXPOSURE C, RISK CATEGORY III AND WITHSTAND A LIVE LOAD OF 100 PSF. DEFLECTION SHALL NOT EXCEED L/360 AND LIMITED TO 1" MAXIMUM. DRAWINGS AND SUPPORTING CALCULATIONS SHALL BE SIGNED AND SEALED BY A FLORIDA PROFESSIONAL ENGINEER (PE) AND SUBMITTED TO FPL FOR REVIEW AND APPROVAL.
- II.2. SHOP DRAWINGS SHALL BE PREPARED BY FABRICATOR AND SUBMITTED TO ENGINEER OF RECORD AND FPL FOR REVIEW.
12. FIBERGLASS PIPE:
- 12.1. FRP COMPOSITE PIPE, FITTINGS, FLANGES, INCLUDING MATERIAL COMPONENTS, SHALL BE PROVIDED BY A UNITED STATES MANUFACTURER AND SUPPLIER.
- 12.2. FRP COMPOSITE PIPE, FITTINGS, AND FLANGES SHALL BE MANUFACTURED WITH A METHACRYLATE EPOXY VINYL ESTER RESIN: ASHLAND'S DERAKANE 441, REICHHOLD'S DION 9100-05 OR ENGINEERING APPROVED EQUAL, PIGMENTED LIGHT GRAY.
- 12.3. PIPE SHALL BE PER ASTM D-2996 IPS, TABLE #3.
- 12.4. FRP PIPES AND FITTINGS SHALL BE SUPPLIED WITH A DOUBLE C-VEIL AND NEXUS VEIL INNER CORROSION BARRIER. THE CORROSION LAMINATE SHALL BE A MINIMUM 50 MILS AND REINFORCED WITH OCF FIBERGLASS CHOPPED STRAND MAT. THE PIPE STRUCTURAL WALL SHALL BE FILAMENT WOUND WITH A NOMINAL 54 DEGREE WIND ANGLE TO PROVIDE THE MAXIMUM AXIAL STRENGTH.
- 12.5. FLANGES SHALL BE MANUFACTURED BY FILAMENT WINDING. BOLTS SHALL BE ASTM A193 GRADE B8M CLASS STUDS, ASTM A194 GRADE 8 HEAVY HEX NUTS WITH (2) SS 304 WASHERS. SIZE SHALL BE DETERMINED BY PIPE MANUFACTURER. GASKETS SHALL BE RED RUBBER (SBR) W/ SHORE A HARDNESS 80 (±5) FULL FACE GARLOCK STYLE OR ENGINEERING APPROVED EQUAL.
- 12.6. EXTERIOR LAMINATE FOR ALL PIPE, FITTINGS, AND FLANGES SHALL BE FURNISHED WITH PPG'S POLYURETHANE POLYMER, SPECTRACRON 300 SERIES COATING. SUPPLIER SHALL SUBMIT COLOR CHART TO FPL FOR REVIEW AND SELECTION OF COLOR.
- 12.7. PREFERRED PIPE MANUFACTURER IS INDUSTRIAL FIBERGLASS SPECIALTIES, INC. IN DAYTON, OHIO.



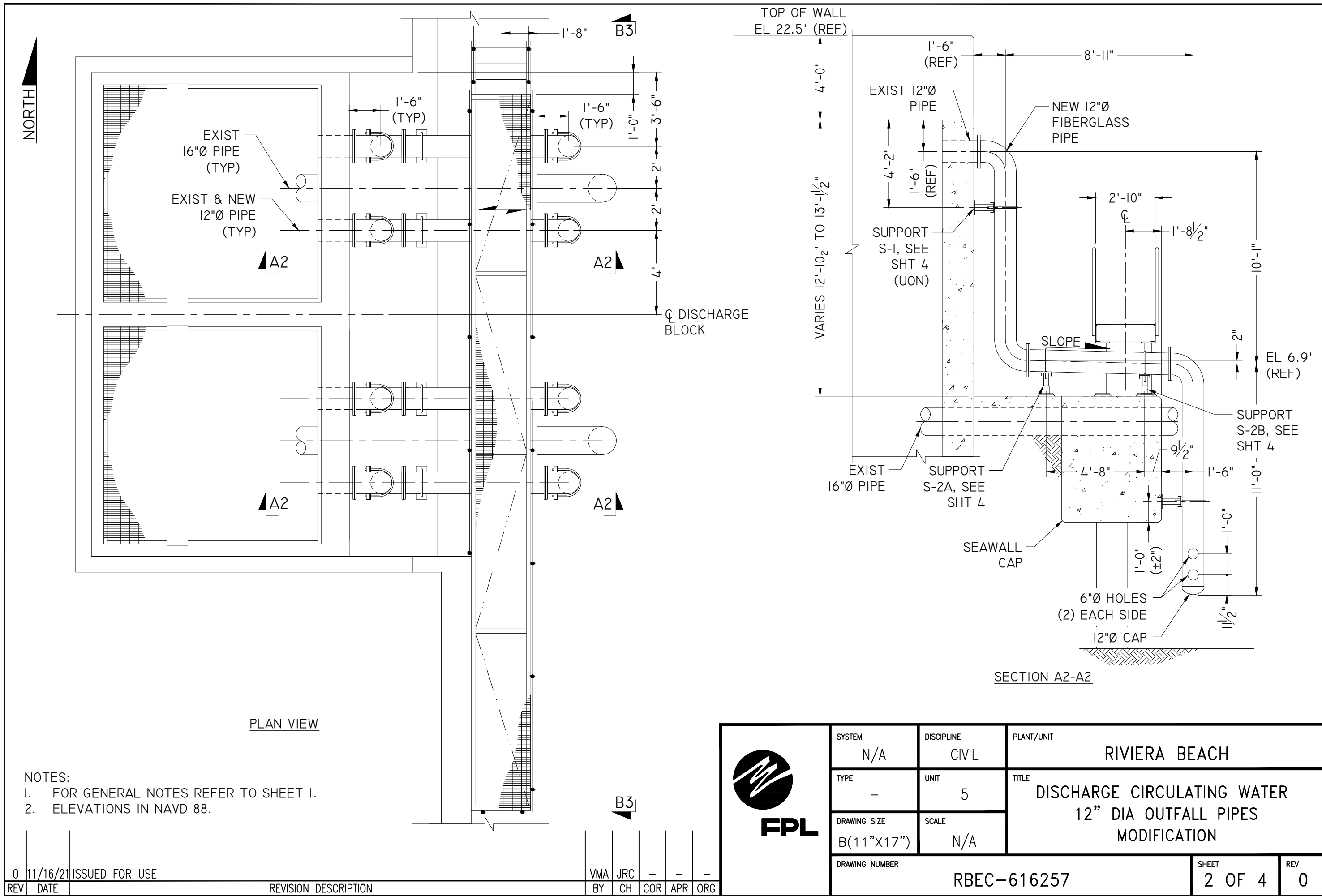
PLAN VIEW - CIRCULATING WATER DISCHARGE STRUCTURE  
SEE DWG REF D008720-HRCSI0004 SHT 1 & 2

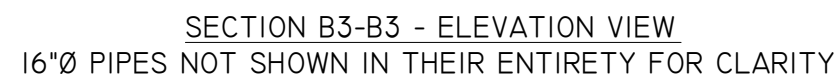
- LEGEND:
- — ●

NEW 1½"Ø GUARDRAIL
- GRATING
- DIRECTION OF GRATING BEARING BARS
- NUMBER INDICATES SHEET NUMBER WHERE SECTION IS SHOWN  
LETTER DENOTES SECTION IDENTIFICATION

|     |          |                      |    |    |     |     |     |     |     |
|-----|----------|----------------------|----|----|-----|-----|-----|-----|-----|
| 0   | 11/16/21 | ISSUED FOR USE       |    |    |     |     |     |     |     |
| REV | DATE     | REVISION DESCRIPTION | BY | CH | COR | APR | ORG | VMA | JRC |

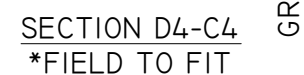
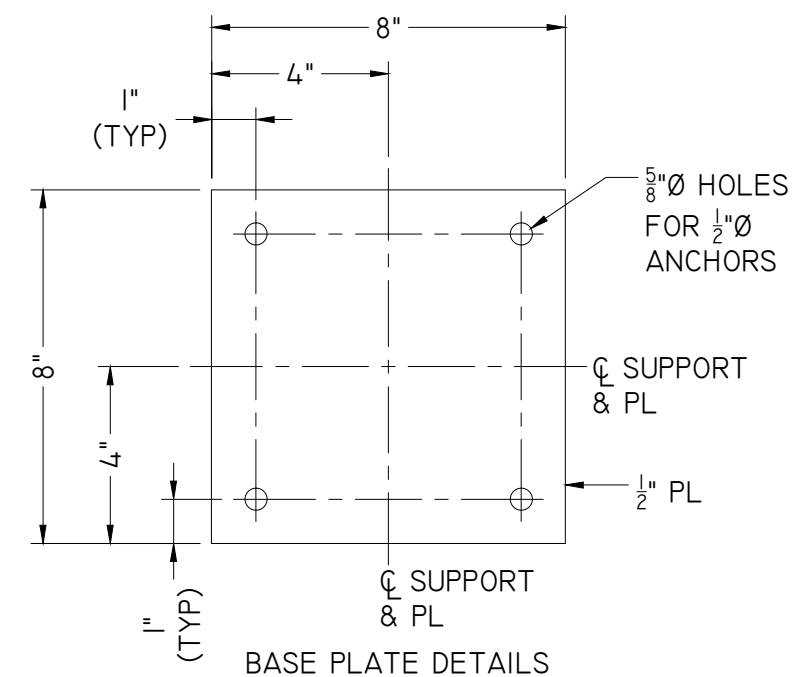
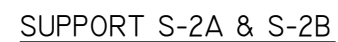
|  |                |            |                                                                      |     |
|--|----------------|------------|----------------------------------------------------------------------|-----|
|  | SYSTEM         | DISCIPLINE | PLANT/UNIT                                                           |     |
|  | HRC            | CIVIL      | RIVIERA BEACH                                                        |     |
|  | TYPE           | UNIT       | TITLE                                                                |     |
|  | —              | 5          | DISCHARGE CIRCULATING WATER<br>12" DIA OUTFALL PIPES<br>MODIFICATION |     |
|  | DRAWING SIZE   | SCALE      |                                                                      |     |
|  | B(11"X17")     | N/A        |                                                                      |     |
|  | DRAWING NUMBER |            | SHEET                                                                | REV |
|  | RBEC-616257    |            | 1 OF 4                                                               | 0   |





1. FOR GENERAL NOTES REFER TO SHEET 1.
2. ELEVATIONS IN NAVD 88.

|     |          |                      |     |     |     |     |     |
|-----|----------|----------------------|-----|-----|-----|-----|-----|
| 0   | 11/16/21 | ISSUED FOR USE       | VMA | JRC | —   | —   | —   |
| REV | DATE     | REVISION DESCRIPTION | BY  | CH  | COR | APR | ORG |



|                               |                     |                                                                               |          |
|-------------------------------|---------------------|-------------------------------------------------------------------------------|----------|
| SYSTEM<br>N/A                 | DISCIPLINE<br>CIVIL | PLANT/UNIT<br>RIVIERA BEACH                                                   |          |
| TYPE<br>—                     | UNIT<br>5           | TITLE<br>DISCHARGE CIRCULATING WATER<br>12" DIA OUTFALL PIPES<br>MODIFICATION |          |
| DRAWING SIZE<br>B(11"X17")    | SCALE<br>N/A        |                                                                               |          |
| DRAWING NUMBER<br>RBEC-616257 |                     | SHEET<br>4 OF 4                                                               | REV<br>0 |

## **Attachment C**

