

From: [Proctor jr., Kennard](#)
To: [SCQ](#)
Cc: [Seiler, Ann](#); [Senn, Nate](#)
Subject: Manatee Unit 3- Power Plant Site Certification No. PA 02-44D: Hydrogen Purge Vaporizer Pad
Date: Monday, July 24, 2023 11:42:27 AM
Attachments: [07-24-23-FPL-MANATEE-UNIT-3-PA02-44D-HYDROGEN-PURGE-VAPORIZER-PAD-AMENDMENT-REQUEST.pdf](#)
[07-24-23-FPL-MANATEE-UNIT-3-PA02-44D-H2-PURGE-VAP-PAD-AMEND-REQUEST-DRAINAGE-STATEMENT-AND-CONCEPT-PLAN.pdf](#)

EXTERNAL MESSAGE

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

Good morning,

Please find attached a Post Certification Amendment Request submittal for the planned construction of a concrete Hydrogen Purge Vaporizer Pad at the FPL Manatee Plant Unit 3. Please contact me if you have questions or need additional information. Thank you.

Sincerely,
Ken Proctor, PMP
Sr. Project Manager
Environmental Services
Florida Power & Light Company
Office: (561) 691-7068
Cell: (561) 267-9138

This transmission is intended to be delivered only to the named addressee(s) and may contain information that is confidential and/or legally privileged. If this information is received by anyone other than the named addressee(s), the recipient should immediately notify the sender by E-MAIL and by telephone (561) 691-7068 and permanently delete the original and any copy, including printout of the information. In no event shall this material be read, used, copied, reproduced, stored or retained by anyone other than the named addressee(s), except with the express consent of the sender or the named addressee(s).



July 24, 2023

Cindy Mulkey
Deputy Director
Florida Department of Environmental Protection
3900 Commonwealth Blvd., MS #48
Tallahassee, FL 32399-3000

RE: Florida Power & Light Company
Manatee Unit 3
Power Plant Site Certification No. PA 02-44D
Post-Certification Amendment
Hydrogen Purge Vaporizer Pad

Dear Ms. Mulkey:

Florida Power & Light Company (FPL) requests a post-certification amendment to FPL's Manatee Power Plant Unit 3 Site Certification (PA 02-44D) pursuant to S. 403.5113, Florida Statutes and Rule 62-17.2015(1), Florida Administrative Code. The purpose of this amendment request is for authorization to construct a concrete pad (Hydrogen Purge Vaporizer Pad) to support the installation of a future remote generator purge system. The pad will temporarily be used for bulk storage (bottle rack) for CO2 bottles needed for the generator until the system is installed.

The remote generator purge system will be installed in the future in support of hurricane preparedness and safety. The system will allow for safe evacuation of generator H₂ emission from the control room, so personnel do not have to work outdoors in a storm environment to purge the generator.

The proposed concrete pad area is 288 sf and will be constructed entirely within the previously developed area of the Unit 3 power block (see Attachment– Concept Plan). There will be no increase in impervious area and the runoff from the proposed improvements will drain via overland flow to the existing stormwater management infrastructure within the power block. The stormwater management system for the power block consists of a collection of piping and drainage structures which ultimately discharge to the cooling pond. Runoff from the power block drainage area is completely retained onsite in the cooling pond. No in-water work will be needed for this project. No wetlands or listed threatened or endangered species will be impacted by this project.

Thank you for your consideration of FPL's request to amend Manatee Unit 3 Site Certification No. PA 02-44D. If you have any questions regarding this submittal, please do not hesitate to contact me at 561-691-7068 or Kennard.proctorjr@fpl.com.

Sincerely,
FLORIDA POWER & LIGHT COMPANY

A handwritten signature in blue ink, appearing to read 'Ken Proctor', is written over a light blue horizontal line.

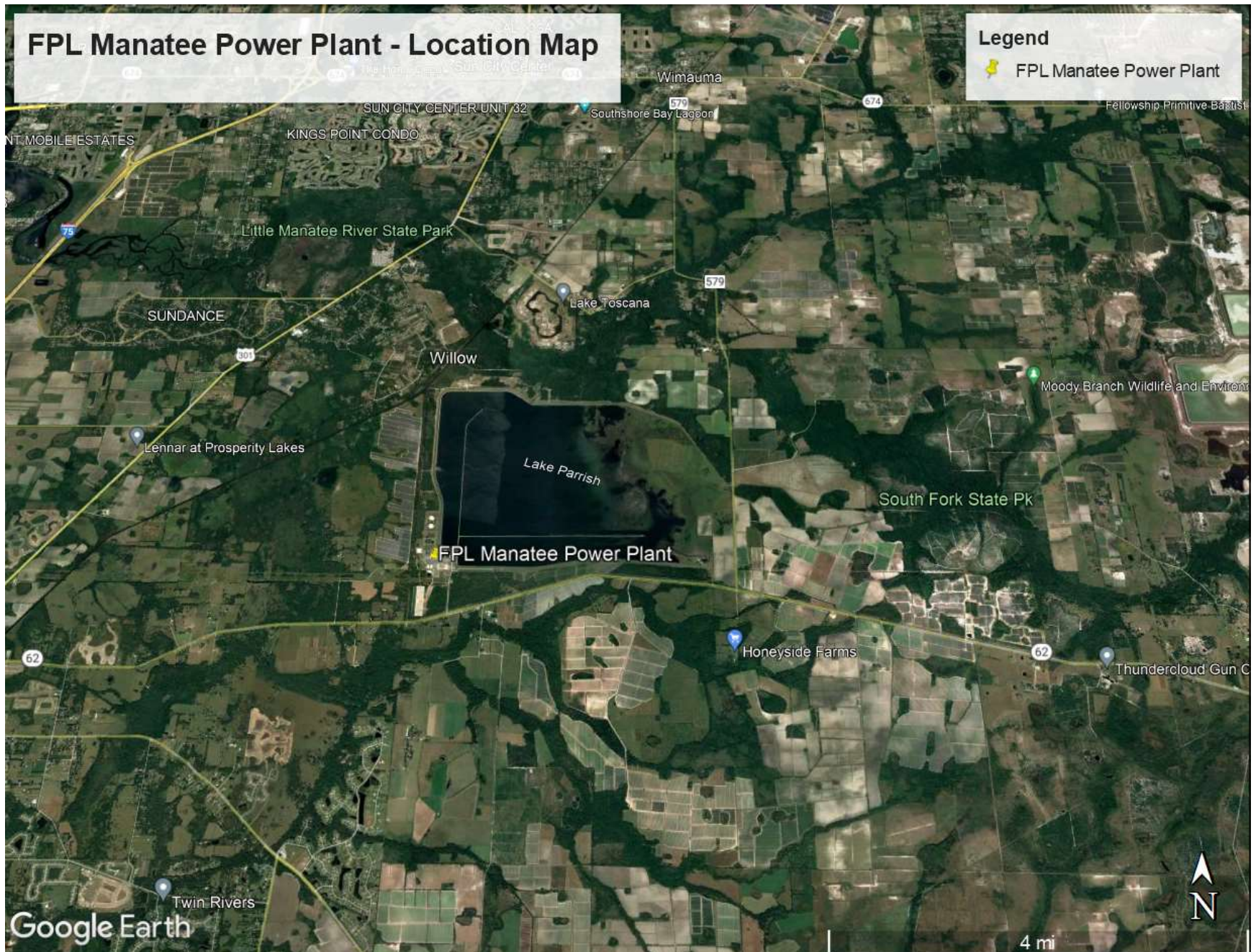
Ken Proctor
Environmental Services

Attachments: 1) Location Map 2) Drainage Statement w/Concept Plan
Florida Power & Light Company

FPL Manatee Power Plant - Location Map

Legend

 FPL Manatee Power Plant





Drainage Statement: Concrete Pavement Improvements at Manatee Plant Unit 3

Florida Power & Light Company is requesting an amendment to the previously issued Site Certification (PA02-44D) for the Manatee Plant Unit 3 (PMT Unit 3) to support the installation of concrete paving improvements at the Plant. PMT, located north of State Road 62 in Manatee County, Florida, is an existing power plant that consists of a combined cycle power plant with associated site infrastructure. The plant is located within a Certified Boundary.

The following improvements are necessary for the continued operation and maintenance of PMT Unit 3:

- **Construction of new concrete pavement for bottle rack storage:** improvements will include the installation of 288 square feet of concrete pavement for bottle rack storage.

Total = 288 square feet (0.007 acres) of concrete pavement

The associated improvements are schematically illustrated on the attached plan, Sheet C-1.

Stormwater Management

In 2003, Wilson-Miller prepared stormwater calculations to support the construction of the PMT Unit 3. (Reference: *Wilson Miller Revised Drainage Calculations Submitted to Manatee County for FPL Manatee Plant Expansion Unit 3*). The stormwater management system for the PMT consists of a 72.8-acre area (Power Block) which ultimately drains into the existing Cooling Pond (per Industrial Wastewater Facility Permit No. FL0032174).

Figure 1 below provides an overview of the PMT Unit 3 stormwater management system.

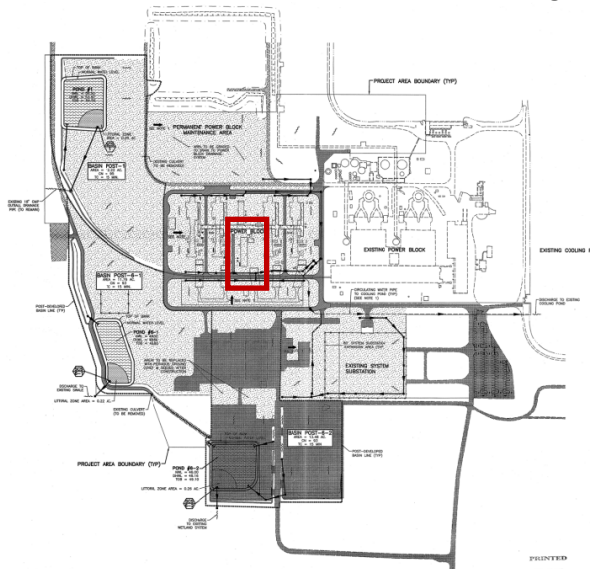


Figure 1: PMT Unit 3 stormwater management system

The Wilson-Miller stormwater calculations assumed the Power Block to have predominantly impervious gravel or crushed rock surfaces. The proposed paving improvements have been accounted for in the **previously permitted** impervious areas for the Power Block. There will be **no increase in impervious area**.

The stormwater management system for the Power Block consists of a collection of piping and drainage structures which ultimately discharge to the Cooling Pond. Runoff from the Power Block drainage area is completely retained onsite in the Cooling Pond. The runoff from the proposed improvements will drain via overland flow to the existing stormwater management infrastructure within the Power Block. Piping and drainage structures will not be installed as part of the planned improvements. All paving will be constructed at the existing finished grades (i.e., **no filling** of the site is planned).

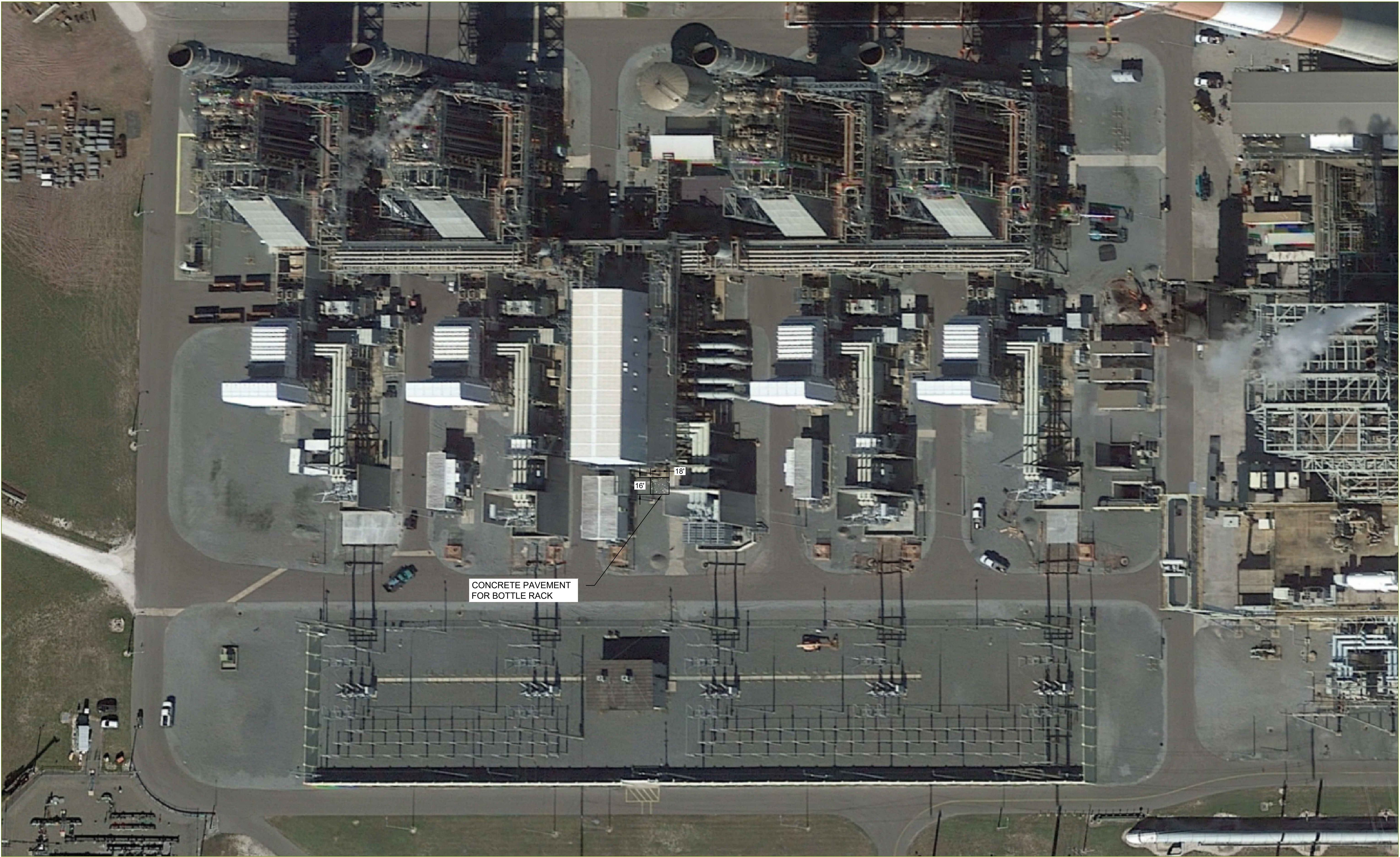
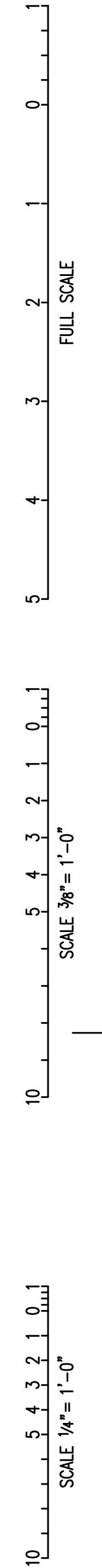
No adverse changes to the stormwater management system are anticipated due to these improvements.

Claudine Alexander, Professional Engineer
State of Florida, License No. 53822

This item has been digitally signed and sealed by Claudine Alexander, P.E.
on July 11, 2023.

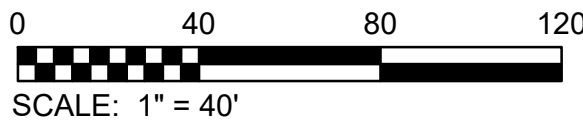
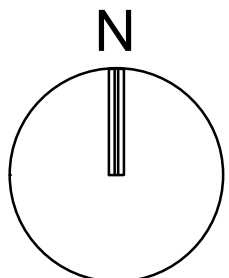
Printed copied of this document are not considered signed and sealed and
the signature must be verified.

WALKDOWN INFORMATION		TECHNICAL ACCEPTANCE	
AS-BUILT INFORMATION	ORG BY DATE	ENGINEERING ORGANIZATION	ORG BY DATE



CONCRETE PAVEMENT
FOR BOTTLE RACK

16'
18'



REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG
-	-	-	-	-	-	-	-
-	04/11/23	ISSUED FOR SITE CERTIFICATION AMENDMENT	CA	-	-	JRC	-



SYSTEM —	DISCIPLINE —	PLANT/UNIT MANATEE PLANT UNIT 3	
TYPE —	UNIT —	TITLE CONCEPT PLAN CONCRETE PAVEMENT IMPROVEMENTS FOR BOTTLE RACK	
DRAWING SIZE D(24"X36")	SCALE —		
DRAWING NUMBER		SHEET C-1	REV —