Exhibit "A"

Procurement and Contracts Department
Mary Rivero, Director
mary.rivero@copbfl.com

ITB #:	ITB25-060	Tentative City Commission Meeting Date*:	TBD		
ITB Title:	Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements	# Notified:	807	# Downloaded:	26
		# of Responses Rec'd:	2	# of "No Bids":	1
For:	Engineering (Department)	ITB Opening Date:	SEPTEMBER 11, 2025		

POSTING OF ITB RECOMMENDATION/TABULATION: ITB Recommendations and Tabulations will be posted in the eBid System, IonWave, on **September 23, 2025, at 5:30 PM** and will remain posted for 72 hours. Any person who may be adversely affected by the decision or intended decision shall file a notice of protest in writing within 72 hours of posting the notice of the decision or intended decision. The formal written protest shall be filed within ten (10) days after the date the notice of protest is filed. Failure to file a notice of protest or a formal written protest shall constitute a waiver of proceedings under this chapter. Section 120.57(3)(b), Florida Statutes, states that "The formal written protest shall state with particularity the facts and law upon which the protest is based." Saturdays, Sundays, state holidays, and days when the City is closed shall be excluded from the computation of the 72-hour time period provided. Filings shall be at the office of the Director of Procurement and Contracts, 1010 NE 3rd Avenue, Pompano Beach, FL 33060. Any person who files an action protesting an intended decision shall post with the City, at the time of filing the formal written protest, a protest bond, payable to the City of Pompano Beach, Florida, in an amount equal to one percent (1%) of the estimated value of the contract. Failure to submit the protest bond within the time allowed for filing a bond shall constitute a waiver of the right to protest. Failure to file a protest within the time prescribed in Section 120.57(3), Florida Statutes, or failure to post the protest bond or other security required by law within the time allowed for filing a bond, shall constitute a waiver of proceedings under Chapter 120, Florida Statutes.

(*) The Cone of Silence, as stated in the ITB / RFP / RFQ / HARD BID, is in effect until the City Commission approves it. The City Commission meeting date stated above is tentative. Confirm with the Purchasing Agent of record for the actual date the Cone of Silence has concluded.

RECOMMENDATION TABULATION

The City of Pompano Beach, Florida, received the following two (2) bids for ITB25-060, with the following result:

Responding Supplier (alphabetic order)	Recommended for Award	Response Total
B&M Marine Construction, Inc.	X	$5,814,389.00
Home Express, Corp..		$8,999,981.33

It is hereby determined that the bid submitted by B&M Marine Construction, Inc. for ITB25-060 Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements is the lowest responsive and responsible bid. The submission meets all requirements of the bid documents and complies with applicable procurement laws and regulations. Therefore, it is recommended that the contract be awarded to B&M Marine Construction, Inc. in accordance with the terms and conditions of the solicitation.

By: *Eric Seifer* (Purchasing Agent) Date: 09/23/2025

ITB25-060 Addendum 3
B&M MARINE CONSTRUCTION, INC.
MITCH BRYANT
Supplier Response

Event Information

Number: ITB25-060 Addendum 3
Title: Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements
Type: Invitation To Bid
Issue Date: 7/30/2025
Deadline: 9/11/2025 02:15 PM (ET)
Notes: The City of Pompano Beach (the "City") is interested in receiving bids for the Invitation to Bid (ITB) ITB25-060 Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements.

The City of Pompano Beach is undertaking a grant-funded construction project within the area of the Hillsboro Marina (Hillsboro Inlet Fishing Center) and Roy Rogers Park (formerly known as Hillsboro Inlet Park). These two adjacent public waterfront facilities are located on the south side of the Hillsboro Inlet and lie on either side of the SR A1A bridge. They are connected by a road that runs beneath the southern approach to the bridge. The project area is a highly utilized recreational and marine operations corridor that supports both public use and commercial charter services.

The Hillsboro Marina (Hillsboro Inlet Fishing Center), located at 2705 N Riverside Drive, has served as the home of a prominent fishing fleet since the mid-20th century. It currently supports up to ten active fishing charters, as well as drift fishing and dive charters. Adjacent to the

facility is Roy Rogers Park, located at 2700 N Ocean Boulevard, which provides scenic waterfront access to the Hillsboro Inlet and the historic lighthouse. The Park includes a variety of amenities such as public restrooms, picnic areas, playgrounds, fishing piers, benches, gazebos, and a floating snorkel platform adjacent to artificial reef structures. It also serves as a critical hub for water taxi services and transient boat dockage.

Due to the time-sensitive and operational nature of both facilities, the construction work will require phased execution and extensive coordination. The contractor must be able to meet deadlines and milestones for construction completion per the grant requirements. The contractor will be responsible for working closely with the City and the local fishing fleet to temporarily relocate, in a phased approach, fishing vessels and fixtures during construction. In addition, each site will require a separate permitting process for each location.

It is critical that both sites remain fully operational throughout the construction process. Any temporary closures or restrictions, particularly related to the fishing fleet, water taxi access, and the Wahoo Bay Marine Sanctuary, must be approved and coordinated in advance with the City.

This project entails providing all labor, equipment, tools, and materials necessary for the seawall and dock improvement project involving two key areas: Hillsboro Marina and Roy Rogers Park.

Contact Information

Contact: Jeffrey English
Address: Procurement and Contracts
1010 NE 3 Avenue
Pompano Beach, FL 33060
Phone: (954) 786-4099
Email: jeffrey.english@copbfl.com

B&M MARINE CONSTRUCTION, INC. Information

Contact: MITCH BRYANT
Address: 1211 SOUTH MILITARY TRAIL
SUITE 200
Deerfield Beach, FL 33442
Phone: (954) 421-1700
Email: MBRYANT@BM-MARINE.COM

By submitting this Response I affirm I have received, read and agree to the all terms and conditions as set forth herein. I hereby recognize and agree that upon execution by an authorized officer of the City of Pompano Beach, this Response, together with all documents prepared by or on behalf of the City of Pompano Beach for this solicitation, and the resulting Contract shall become a binding agreement between the parties for the products and services to be provided in accordance with the terms and conditions set forth herein. I further affirm that all information and documentation contained within this response to be true and correct, and that I have the legal authority to submit this response on behalf of the named Supplier (Offeror).

Robert Glen Bryant
Signature

gbryant@bm-marine.com
Email

Submitted at 9/11/2025 11:07:03 AM (ET)

Requested Attachments

Local Business Program Forms

doc00096820250909142306.pdf

Forms A, B, C, and D are to be completed and uploaded to the Response Attachments tab.

Qualification of Bidders Form

Qualification of Bidders Form - Large Construction (2).pdf

This form must be completed and uploaded to the Response Attachments tab.

W9

'25 W9.pdf

Request for Taxpayer Identification Number and Certification

Bid Security Bond Form

doc00085920250908101150.pdf

Each bid requires a certified check or bid bond executed on the prescribed form, payable to the City of Pompano Beach, Florida, in an amount not less than 5 percent (5%) of the bid amount. The bidder shall upload a copy of their bid bond or a copy of the certified check to the Response Attachments tab in the eBid System.

State Licenses

State License737337.pdf

At the time of bid submission, Bidders must possess and provide proof of an active General Contractor license issued by the State of Florida. Failure to demonstrate such licensure will result in the bid being disqualified.

Tier 1/ Tier 2 Local Business Form

doc00086120250908104953.pdf

To comply with the City's Local Business Program as a Tier-1 or Tier-2 vendor, you must complete the Tier 1/ Tier 2 Local Business form from the attachments tab and upload it here.

Bid Attributes

1	**Substantial Project Completion** Provide the number of calendar days that the construction of the Project will be substantially complete after the date when the Contract Time commences to run as provided in the general conditions. 365

2	**Final Project Completion** Provide the number of calendar days, after the substantial completion date, that the construction of the Project will be completed and ready for final payment. 25
3	**Total Project Completion** Enter the sum of calendar days for the substantial and final project completion. 390
4	**Conflict of Interest** For purposes of determining any possible conflict of interest, all bidders must disclose if any City of Pompano Beach employee is also an owner, corporate officer, or employee of their business. Indicate either "Yes" (a City employee is also associated with your business), or "No". (Note: If answer is "Yes", you must file a statement with the Supervisor of Elections, pursuant to Florida Statutes 112.313.)Indicate yes or no below with the drop down menu. No
5	**Terms & Conditions** Check the box indicating you agree to the terms and conditions of this solicitation. ☑ Agree
6	**Acknowledgement of Addenda** Check this box to acknowledge that you have reviewed all addenda issued for this solicitation. ☑ Yes
7	**Vendor Certification Regarding Scrutinized Companies Lists (Any Dollar Amount)** Section 215.4725, Florida Statutes, prohibits agencies from contracting (at any dollar amount) with companies on the Scrutinized Companies that Boycott Israel List, or with companies that are engaged in a boycott of Israel. As the person authorized to electronically sign on behalf of Respondent, I hereby certify by selecting the box below that the company responding to this solicitation is not listed on the Scrutinized Companies that Boycott Israel List. I also certify that the company responding to this solicitation is not participating in a boycott of Israel, and is not engaged in business operations in Syria or Cuba. I understand that pursuant to sections 287.135 and 215.4725, Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs. Select yes for Agree, No for disagree on the drop down menu. Yes

8 **Drug-Free Workplace**

STATEMENT UNDER SECTION 287.087, FLORIDA STATUTES ON DRUG-FREE WORKPLACE

REQUESTED INFORMATION BELOW IS ON THE ATTRIBUTES TAB FOR THE RFP IN THE EBID SYSTEM. PROVIDE THIS INFORMATION ELECTRONICALLY.

Preference must be given to Contractors submitting certification with their bid or proposal, certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991.

Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

(1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

(2) Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

(3) Give each employee engaged in providing the commodities or contractual services that are under bid, a copy of the statement specified in subsection (1).

(4) In the statement specified in subsection (1) notify the employees that as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace, no later than five (5) days after such conviction.

(5) Impose a sanction on, or require the satisfactory participation in, a drug abuse assistance or rehabilitation program if such is available in the employee's community, by an employee who is so convicted.

(6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign this statement, I certify that his company/firm complies with the above requirements.

By choosing YES, I hereby certify that the company/firm complies with all the above requirements

Yes

Bid Lines

1 **Package Header**

HILLSBORO MARINA - Component A: Steel Sheetpile Bulkhead

Quantity: 1 UOM: LS Total: $1,245,100.00

Package Items

1.1 Steel Sheetpile - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $736,000.00 Total: $736,000.00

1.2 Concrete Batter Piles - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $126,800.00 Total: $126,800.00

1.3 36"x30" Concrete Cap

Quantity: 1 UOM: LS Lump Sum Price: $185,300.00 Total: $185,300.00

1.4 Demolition of Existing Structure

Quantity: 1 UOM: LS Lump Sum Price: $189,000.00 Total: $189,000.00

1.5 Closure Pours

Quantity: 1 UOM: LS Lump Sum Price: $8,000.00 Total: $8,000.00

2 Package Header

HILLSBORO MARINA - Component B: Fixed Marginal Dock and Piles

Quantity: 1 UOM: LS Total: $810,550.00

Package Items

2.1 Marginal Dock - Fixed (6.5'x404') - Furnish-- Alum. frame w/ composite decking

Quantity: 1 UOM: LS Lump Sum Price: $230,500.00 Total: $230,500.00

2.2 Marginal Dock - Fixed (6.5'x404') - Install

Quantity: 1 UOM: LS Lump Sum Price: $52,500.00 Total: $52,500.00

2.3 Concrete Piles - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $206,000.00 Total: $206,000.00

2.4 Concrete Pile Cap, Trim and Fenders

Quantity: 1 UOM: LS Lump Sum Price: $31,500.00 Total: $31,500.00

2.5 Timber Cluster Piles - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $183,600.00 Total: $183,600.00

2.6 Aluminum Ladders - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $3,200.00 Total: $3,200.00

2.7 Cleats - (18") - Supply / Install

Quantity: 1 UOM: LS Lump Sum Price: $8,900.00 Total: $8,900.00

2.8 Bollards (10-Ton) - Supply / Install

Quantity: 1 UOM: LS Lump Sum Price: $2,350.00 Total: $2,350.00

2.9 Demolition and Disposal of Existing Structure

Quantity: 1 UOM: LS Lump Sum Price: $92,000.00 Total: $92,000.00

3 Package Header

HIILSBORO MARINA - Component C: Utilities and Fire (Marina)

Quantity: 1 UOM: LS Total: $503,760.00

Package Items

3.1 Power and Lighting - (12) Slips including Marginal-includes power pedestals, light bollards and all required electrical connections)

Quantity: 1 UOM: LS Lump Sum Price: $296,560.00 Total: $296,560.00

3.2 Potable Water- (12) Slips including Marginal-includes tie-in to existing service at meter, valves and any required site restoration

Quantity: 1 UOM: LS Lump Sum Price: $85,100.00 Total: $85,100.00

3.3 Fire Extinguisher Cabinets - Furnish and Install-includes fire extinguisher cabinets, 20lb fire extinguishers and electrical connections)

Quantity: 1 UOM: LS Lump Sum Price: $12,900.00 Total: $12,900.00

3.4 Electrical Demolition and Disconnects

Quantity: 1 UOM: LS Lump Sum Price: $37,200.00 Total: $37,200.00

3.5 Electrical Feeds and Panel Upgrades

Quantity: 1 UOM: LS Lump Sum Price: $72,000.00 Total: $72,000.00

4 Package Header

HILLSBORO MARINA - Component D: Upland Site Restoration

Quantity: 1 UOM: LS Total: $341,716.00

Package Items

4.1 6' Wide Concrete Walk

Quantity: 1 UOM: LS Lump Sum Price: $43,250.00 Total: $43,250.00

4.2 Concrete Ramps and Landing, Bench Pads

Quantity: 1 UOM: LS Lump Sum Price: $12,500.00 Total: $12,500.00

4.3 Concrete Retaining Walls

Quantity: 1 UOM: LS Lump Sum Price: $15,500.00 Total: $15,500.00

4.4 Type "D" Curb

Quantity: 1 UOM: LS Lump Sum Price: $8,745.00 Total: $8,745.00

4.5 Asphalt including Subgrade and Compacted Base

Quantity: 1 UOM: LS Lump Sum Price: $51,980.00 Total: $51,980.00

4.6 Wheel Stops - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $2,730.00 Total: $2,730.00

4.7 Striping

Quantity: 1 UOM: LS Lump Sum Price: $3,250.00 Total: $3,250.00

4.8 Aluminum Pipe Rail - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $13,750.00 Total: $13,750.00

4.9 Benches - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $12,400.00 Total: $12,400.00

4.10 Trash Receptacles - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $7,250.00 Total: $7,250.00

4.11 Fish Cleaning Stations - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $52,000.00 Total: $52,000.00

4.12 Landscape - (7) Palm Trees - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $13,815.00 Total: $13,815.00

4.13 Irrigation and Ground Cover (Gravel)

Quantity: 1 UOM: LS Lump Sum Price: $12,770.00 Total: $12,770.00

4.14 Parking Lot Pole Lights - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $91,776.00 Total: $91,776.00

5 Package Header

HILLSBORO MARINA - Component E: Other

Quantity: 1 UOM: LS Total: $271,723.00

Package Items

5.1 Contractor Mobilization

Quantity: 1 UOM: LS Lump Sum Price: $20,000.00 Total: $20,000.00

5.2 Staging Area Construction, Fencing and Other

Quantity: 1 UOM: LS Lump Sum Price: $10,000.00 Total: $10,000.00

5.3 Insurance, Licenses, Bonds and Other Misc.

Quantity: 1 UOM: LS Lump Sum Price: $219,523.00 Total: $219,523.00

5.4 Survey Control / Layout / As-built Survey

Quantity: 1 UOM: LS Lump Sum Price: $11,500.00 Total: $11,500.00

5.5 Environmental Control (Silt Fences, Turbidity Screens)

Quantity: 1 UOM: LS Lump Sum Price: $10,700.00 Total: $10,700.00

6 Package Header

ROGERS PARK SEAWALL AND DOCK - Component A: Bulkhead Cap Repairs

Quantity: 1 UOM: LS Total: $462,100.00

Package Items

6.1 Demolition of Existing Cap, Railing & Walkway

Quantity: 1 UOM: LS Lump Sum Price: $62,700.00 Total: $62,700.00

6.2 Concrete Cap Repair with Vertical Extension

Quantity: 1 UOM: LS Lump Sum Price: $390,900.00 Total: $390,900.00

6.3 Closure Pours

Quantity: 1 UOM: LS Lump Sum Price: $8,500.00 Total: $8,500.00

7 Package Header

ROGERS PARK SEAWALL AND DOCK - Component B: Marginal Docks and Piers

Quantity: 1 UOM: LS Total: $707,367.00

Package Items

7.1 Demolition / Disposal of Existing Piers including Concrete Piles (Fishing Pier and Water Taxi Dock)

Quantity: 1 UOM: LS Lump Sum Price: $54,315.00 Total: $54,315.00

7.2 Marginal Fishing Pier - Furnish-- 7'x51' with 12' extension for fish cleaning - Aluminum Frame/Composite Decking

Quantity: 1 UOM: LS Lump Sum Price: $39,300.00 Total: $39,300.00

7.3 Marginal Fishing Pier - Install

Quantity: 1 UOM: LS Lump Sum Price: $7,500.00 Total: $7,500.00

7.4 Marginal Fishing Pier - ADA Aluminum Rail - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $10,450.00 Total: $10,450.00

7.5 Marginal Fishing Pier - Concrete Piles - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $43,250.00 Total: $43,250.00

7.6 Fish Cleaning Station - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $13,000.00 Total: $13,000.00

7.7 Marginal Dock Extension - (6'x120') - Furnish-Aluminum Frame/Composite Decking

Quantity: 1 UOM: LS Lump Sum Price: $71,250.00 Total: $71,250.00

7.8 Marginal Dock Extension - (6'x120') - Install

Quantity: 1 UOM: LS Lump Sum Price: $14,400.00 Total: $14,400.00

7.9 Marginal Dock Extension - ADA Aluminum Rail - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $25,080.00 Total: $25,080.00

7.10 Marginal Dock Extension - Concrete Piles - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $43,250.00 Total: $43,250.00

7.11 Marginal Dock Pile Caps and Trim - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $11,450.00 Total: $11,450.00

7.12 Water Taxi Pier Replacement - Furnish-- 6'-8"x85' Main Pier w/ 6'-8"x37' Terminal Pier - (2) 6'x15' Finger Piers & 5'x37.5' Marginal Dock - Aluminum Frame/Composite Decking

Quantity: 1 UOM: LS Lump Sum Price: $115,900.00 Total: $115,900.00

7.13 Water Taxi Pier Replacement - Install

Quantity: 1 UOM: LS Lump Sum Price: $27,000.00 Total: $27,000.00

7.14 Water Taxi - Concrete Piles - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $115,000.00 Total: $115,000.00

7.15 Water Taxi Pile Caps and Trim - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $15,600.00 Total: $15,600.00

7.16 Timber Fender Piles

Quantity: 1 UOM: LS Lump Sum Price: $10,000.00 Total: $10,000.00

7.17 Water Taxi - ADA Aluminum Rail w/ Gate - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $86,872.00 Total: $86,872.00

7.18 Aluminum Ladders - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $1,650.00 Total: $1,650.00

7.19 Cleats - (18") - Supply / Install

Quantity: 1 UOM: LS Lump Sum Price: $2,100.00 Total: $2,100.00

8 Package Header

ROGERS PARK SEAWALL AND DOCK - Component C: Utilities and Fire (Marina)

Quantity: 1 UOM: LS Total: $120,255.00

Package Items

8.1 Lighting - Marginal Docks & Pier-(includes light bollards and all required electrical connections)

Quantity: 1 UOM: LS Lump Sum Price: $59,835.00 Total: $59,835.00

8.2 Potable Water - Water Taxi Pier and Fish Cleaning Station-(includes water stanchions, tie into existing service at pier and valves

Quantity: 1 UOM: LS Lump Sum Price: $36,000.00 Total: $36,000.00

8.3 Fire Extinguisher Cabinets - Furnish and Install-includes fire extinguisher cabinets, 20lb fire extinguishers and electrical connections)

Quantity: 1 UOM: LS Lump Sum Price: $16,200.00 Total: $16,200.00

8.4 Electrical Demolition and Disconnects

Quantity: 1 UOM: LS Lump Sum Price: $6,000.00 Total: $6,000.00

8.5 Electrical Feeds and Panel Upgrades

Quantity: 1 UOM: LS Lump Sum Price: $2,220.00 Total: $2,220.00

9 Package Header

ROY ROGERS PARK SEAWALL AND DOCK - Component D: Upland Site Restoration

Quantity: 1 UOM: LS Total: $581,190.00

Package Items

9.1 Concrete Walkway Construction
- 8'x313' Concrete Walk (2424 sf)
- 6'x37' Concrete Walk (222 sf)
- Conc. Walk Replacement / Ties to Existing (300 sf)
- Includes fill placement, grading, and compaction

Quantity: 1 UOM: LS Lump Sum Price: $74,450.00 Total: $74,450.00

9.2 Decorative Patio Reconstruction-- includes demolition of existing structure, removal and reinstallation of existing plaque, and replacement of paver bricks, in-kind

Quantity: 1 UOM: LS Lump Sum Price: $35,225.00 Total: $35,225.00

9.3 Concrete Ramp and Landing Construction-- 4'x12' Ramp w/ 4'x5' Landing @ Fishing Pier

Quantity: 1 UOM: LS Lump Sum Price: $1,785.00 Total: $1,785.00

9.4 Concrete Retaining Walls @ Approach to Patio

Quantity: 1 UOM: LS Lump Sum Price: $22,500.00 Total: $22,500.00

9.5 Concrete Steps Bordering Patio

Quantity: 1 UOM: LS Lump Sum Price: $12,500.00 Total: $12,500.00

9.6 Concrete Walk Replacement around 'Anchor' Display-- includes demolition of existing structure, fill, and compaction

Quantity: 1 UOM: LS Lump Sum Price: $6,250.00 Total: $6,250.00

9.7 Site Walkway Lighting - Furnish and Install-includes light bollards and all required electrical connections)

Quantity: 1 UOM: LS Lump Sum Price: $89,755.00 Total: $89,755.00

9.8 Aluminum Rails (Bulkhead, Ramps and Retaining Walls)

Quantity: 1 UOM: LS Lump Sum Price: $18,525.00 Total: $18,525.00

9.9 Bench & Trash Receptacle Removal / Reinstallation-Assume Existing Units are to be Salvaged - includes removal and disposal of concrete pads

Quantity: 1 UOM: LS Lump Sum Price: $7,500.00 Total: $7,500.00

9.10 Misc. Displays and Statue Removal / Reinstallation

Quantity: 1 UOM: LS Lump Sum Price: $10,000.00 Total: $10,000.00

9.11 Signage, Security Cameras and Flag Pole-Remove, Store and Reinstall - Match Existing Install

Quantity: 1 UOM: LS Lump Sum Price: $11,500.00 Total: $11,500.00

9.12 Fill Placement, Grading and Compaction

Quantity: 1 UOM: LS Lump Sum Price: $54,000.00 Total: $54,000.00

9.13 Sod Placement - Furnish and Install-includes irrigation new / repair, as required

Quantity: 1 UOM: LS Lump Sum Price: $88,700.00 Total: $88,700.00

9.14 Landscape - (110) Palm Trees - Furnish and Install

Quantity: 1 UOM: LS Lump Sum Price: $148,500.00 Total: $148,500.00

10

Package Header

ROY ROGERS PARK SEAWALL AND DOCK - Component E: Other

Quantity: 1 UOM: LS Total: $230,628.00

Package Items

10.1 Contractor Mobilization

Quantity: 1 UOM: LS Lump Sum Price: $20,000.00 Total: $20,000.00

10.2 Staging Area Construction, Fencing and Other

Quantity: 1 UOM: LS Lump Sum Price: $15,000.00 Total: $15,000.00

10.3 Insurance, Licenses, Bonds, and Other Misc.

Quantity: 1 UOM: LS Lump Sum Price: $175,628.00 Total: $175,628.00

10.4 Survey Control / Layout / As-built Survey

Quantity: 1 UOM: LS Lump Sum Price: $10,000.00 Total: $10,000.00

10.5 Environmental Control (Silt Fences, Turbidity Screens)

Quantity: 1 UOM: LS Lump Sum Price: $10,000.00 Total: $10,000.00

11

Package Header

Owner's Allowance for both phases of the Project.

Total: $540,000.00

Package Items

11.1 Charter Kiosks Allowance

Price: $25,000.00 Total: $25,000.00

11.2 Utilities Allowance

Price: $15,000.00 Total: $15,000.00

11.3 Signage Allowance

Price: $25,000.00 Total: $25,000.00

11.4 Contingency

Price: $445,000.00 Total: $445,000.00

11.5 Permit Allowance

Price: $30,000.00 Total: $30,000.00

Response Total: $5,814,389.00

Form **W-9**
(Rev. March 2024)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give form to the requester. Do not send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See *Specific Instructions* on page 3.

1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)

B&M MARINE CONSTRUCTION, INC.

2 Business name/disregarded entity name, if different from above.

3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor ☐ C corporation ☑ S corporation ☐ Partnership ☐ Trust/estate

☐ LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) . . . .

Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner.

☐ Other (see instructions)

3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions . . . . . ☐

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any)

Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any)

(Applies to accounts maintained outside the United States.)

5 Address (number, street, and apt. or suite no.). See instructions.

1211 S. MILITARY TRAIL #200

Requester's name and address (optional)

6 City, state, and ZIP code

DEERFIELD BEACH, FL 33442

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

☐☐☐ - ☐☐ - ☐☐☐☐

or

Employer identification number

4 6 - 0 5 5 3 2 5 7

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person Glen Bryan Date 5/14/2025

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9*.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

Document A310 TM – 2010

Conforms with The American Institute of Architects AIA Document 310

Bid Bond

CONTRACTOR:
(Name, legal status and address)

B&M Marine Construction, Inc.
1211 South Military Trail, Suite 200
Deerfield Beach, FL 33442

SURETY:
(Name, legal status and principal place of business)

United States Fire Insurance Company
305 Madison Avenue
Morristown, NJ 07960

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:
(Name, legal status and address)

City of Pompano Beach
100 West Atlantic Blvd.
Pompano Beach, FL 33060

BOND AMOUNT: $ 5% Five Percent of Amount Bid

PROJECT:
(Name, location or address, and Project number, if any)

ITB25-060, Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 3rd day of September, 2025

B&M Marine Construction, Inc.
(Principal) *(Seal)*

(Witness)

By: Robert Glen Bryan
(Title) PRESIDENT

Haley Bamford
(Witness) Haley Bamford

United States Fire Insurance Company
(Surety) *(Seal)*

By: Charles D. Nielson
(Title) Charles D. Nielson Attorney-in-Fact
Surety Phone No. 973-490-6600

POWER OF ATTORNEY
UNITED STATES FIRE INSURANCE COMPANY
PRINCIPAL OFFICE - MORRISTOWN, NEW JERSEY

00927

KNOW ALL MEN BY THESE PRESENTS: That United States Fire Insurance Company, a corporation duly organized and existing under the laws of the state of Delaware, has made, constituted and appointed, and does hereby make, constitute and appoint:

Ian A. Nipper, David Russell Hoover, Joseph Penichet Nielson, Charles David Nielson,
Charles Jackson Nielson, Shawn Alan Burton, Jarrett Merlucci

each, its true and lawful Attorney(s)-In-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver: Any and all bonds and undertakings of surety and other documents that the ordinary course of surety business may require, and to bind United States Fire Insurance Company thereby as fully and to the same extent as if such bonds or undertakings had been duly executed and acknowledged by the regularly elected officers of United States Fire Insurance Company at its principal office, in amounts or penalties: **Unlimited**

This Power of Attorney limits the act of those named therein to the bonds and undertakings specifically named therein, and they have no authority to bind United States Fire Insurance Company except in the manner and to the extent therein stated.

This Power of Attorney is granted pursuant to Article IV of the By-Laws of United States Fire Insurance Company as now in full force and effect, and consistent with Article III thereof, which Articles provide, in pertinent part:

Article IV, Execution of Instruments - Except as the Board of Directors may authorize by resolution, the Chairman of the Board, President, any Vice-President, any Assistant Vice President, the Secretary, or any Assistant Secretary shall have power on behalf of the Corporation:

(a) to execute, affix the corporate seal manually or by facsimile to, acknowledge, verify and deliver any contracts, obligations, instruments and documents whatsoever in connection with its business including, without limiting the foregoing, any bonds, guarantees, undertakings, recognizances, powers of attorney or revocations of any powers of attorney, stipulations, policies of insurance, deeds, leases, mortgages, releases, satisfactions and agency agreements;
(b) to appoint, in writing, one or more persons for any or all of the purposes mentioned in the preceding paragraph (a), including affixing the seal of the Corporation.

Article III, Officers, Section 3.11, Facsimile Signatures. The signature of any officer authorized by the Corporation to sign any bonds, guarantees, undertakings, recognizances, stipulations, powers of attorney or revocations of any powers of attorney and policies of insurance issued by the Corporation may be printed, facsimile, lithographed or otherwise produced. In addition, if and as authorized by the Board of Directors, dividend warrants or checks, or other numerous instruments similar to one another in form, may be signed by the facsimile signature or signatures, lithographed or otherwise produced, of such officer or officers of the Corporation as from time to time may be authorized to sign such instruments on behalf of the Corporation. The Corporation may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Corporation, notwithstanding the fact that he may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF, United States Fire Insurance Company has caused these presents to be signed and attested by its appropriate officer and its corporate seal hereunto affixed this 8th day of April, 2025.

UNITED STATES FIRE INSURANCE COMPANY

Matthew E. Lubin, President

State of New Jersey }
County of Morris }

On this 8th day of April, 2025, before me, a Notary public of the State of New Jersey, came the above named officer of United States Fire Insurance Company, to me personally known to be the individual and officer described herein, and acknowledged that he executed the foregoing instrument and affixed the seal of United States Fire Insurance Company thereto by the authority of his office.

ETHAN SCHWARTZ
NOTARY PUBLIC
STATE OF NEW JERSEY
MY COMMISSION EXPIRES 6/25/2029
COMMISSION: #50223171

Ethan Schwartz (Notary Public)

I, the undersigned officer of United States Fire Insurance Company, a Delaware corporation, do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy is still in force and effect and has not been revoked.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of United States Fire Insurance Company on the 3rd day of September 20 25

UNITED STATES FIRE INSURANCE COMPANY

Michael C. Fay, Senior Vice President

CONTACT INFORMATION: Bond Verifications: surety@cfins.com / Claims: SuretyClaimsSupport@cfins.com

QUALIFICATION OF BIDDERS

COMPLETE THE QUALIFICATIONS OF BIDDERS – CONSTRUCTION FORM IN BID ATTACHMENTS TAB. BIDDERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND UPLOAD THE COMPLETED FORM TO THE RESPONSE ATTACHMENTS TAB FOR THE BID IN THE EBID SYSTEM

To demonstrate qualifications to perform the Work, and to be considered for award, each Bidder must submit written evidence, such as previous experience, present commitments and other such data as may be called for below (or in SUPPLEMENTARY CONDITIONS). Each Bid must contain evidence of Bidder's qualification to do business in the State where the Project is located or covenant to obtain such qualification prior to executing the Agreement.

1 How many years has your organization been in business as a General Contractor?
13

2 State of Florida Contractor's license #cgc052820

Broward County Certificate of Competency #:_____

Expiration Date: _____

3 What is the last project of this nature that you have completed?
BILL FISH MARINA

4 Have you ever failed to complete work awarded to you? If Yes, where and why?
NO

5 List all work performed over the last year.

Project Name BILLFISH MARINA

Owner's Name JOHN & MIKE KELLY

Owner's Address 2965 WEST STATE ROAD 84
FORT LAUDERDALE

Phone Number 412-860-5660

Nature of Work 900' OF SEAWALL, TRAVEL LIFT, ELECTRCAIL & PLUMBING

Original Contract Completion Time (Days) 300

Original Contract Completion Date 12/3/24

Actual Final Contract Completion Date 10/10/2024

Original Contract Price 4,650,000.00

Actual Final Contract Price 4,875,000.00

(Attach additional information as required)

6 List all work of similar type, complexity, and comparable value as described within the ITB's section B. Bidder's Responsiveness and Responsibility, 2.b. Prior Project Experience and References, as well as the nature of work performed. (Attach additional information on separate sheet)

Project Name A CITY OF POMPANO BEACH

Owner's Name REP. ANTHONY ALHASHEMI

Owner's Address 1201 NE 5TH AVE POMPANO BEACH

Phone Number 954-786-4029

Nature of Work SEAWALL & DOCK

Original Contract Completion Time (Days) 160

Original Contract Completion Date 11/31/23

Actual Final Contract Completion Date 10/30/23

Original Contract Price 1,781,595.50

Actual Final Contract Price 1,674,452.35

Project Name B SOUTH FORK MARINA

Owner's Name COLBY COOPER (HIX SNEDEKER)

Owner's Address 1500 SW 17TH STREET FORT LAUDERDALE

Phone Number 251-605-9713

Nature of Work DREDGE 30,000CY, 1560 SEAWALL & BUILD MARINA

Original Contract Completion Time (Days) 575

Original Contract Completion Date 6/8/22

Actual Final Contract Completion Date 4/19/22

Original Contract Price 4,649,000.00

Actual Final Contract Price 4,323,725.00

Project Name C HILTON HOTEL & MARINA

Owner's Name KEVIN QUIRK

Owner's Address 1881 SE 17TH STREET FORT LAUDERDALE

Phone Number 954-873-3157

Nature of Work MARINA, CONCRETE & FLOATING DOCKS , DREDGING, NEW SEAWALL

Original Contract Completion Time (Days) 755 DAYS (2 PHASES)

Original Contract Completion Date 12/19/23

Actual Final Contract Completion Date 11/9/23

Original Contract Price $3,286,000.00

Actual Final Contract Price $3,820,288.08

7 The following are names as three (3) individuals or corporations for which you have performed work of this nature and to which you list as references, excluding the City of Pompano Beach.

NAME	ADDRESS	TELEPHONE	CONTACT PERSON
KEVIN QUIRK, 1881 SE 17TH ST, FTL, 954-873-3157, KEVIN			
COLBY COOPER, 1500 sw 17TH ST, FTL, 251-605-9713			
MICHAEL KELLY, 2965 W ST RD 84, FTL, 412-860-5660			

8 Have you personally inspected the proposed work and have you a complete plan for its performance?

YES

9 Will you sub-contract any part of this work? X Yes _____ No

If Yes, list all proposed subcontractors to be used on this project if the Bidder is awarded the Contract for this project. The successful Bidder shall submit a COMPLETE list of any work that he proposes to subcontract and the proposed subcontractors prior to execution of the contract.

CLASSIFICATION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR
ELECTRIC	McFARLAND ELEC. 10877 NW 52nd ST, FTL
PLUMBING	ZAGER GLOBAL, 149 SE 4th ST, DEERFEILD
LANDSCAPING	MBR CONST. 1020 NW 51st ST, FTL
FENCING	TROPIC FENCE, 1864 NW 31 ST, POMPANO

(Submit any additional contractors to be used on a separate sheet.)

10 The following information shall be provided for this project:

(a) Estimated total construction manhours 9500

(b) Percent manhours to be performed by Contractor's permanent staff 60%

(c) Percent manhours to be performed by direct hire employees 20%

(d) Percent manhours to be performed by Subcontractors 20%

Equipment

11 What equipment do you own that is available for the proposed work?

ALL EQUIPMENT IS OWNED

12 What equipment will you rent for the proposed work?

NONE

13 What equipment will you purchase for the proposed work?

NONE

Exhibit "A"

Ron DeSantis, Governor

Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

BRYANT, CHRISTOPHER SCOTT

B & M MARINE CONSTRUCTION, INC.
6276 MADRAS CIRCLE
BOYNTON BEACH FL 33437

LICENSE NUMBER: CGC052820

EXPIRATION DATE: AUGUST 31, 2026

Always verify licenses online at MyFloridaLicense.com

ISSUED: 08/28/2024

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

TIER 1/TIER 2 COMPLIANCE FORM

IN ORDER FOR YOUR FIRM TO COMPLY WITH THE CITY'S LOCAL BUSINESS PROGRAM AS A TIER 1 OR TIER 2 VENDOR, BIDDERS MUST COMPLETE THE INFORMATION BELOW AND UPLOAD THE FORM TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

TIER 1 LOCAL VENDOR

_____ My firm has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least 10 % who are residents of the City of Pompano Beach.

And/Or

_____ My firm has maintained a permanent place of business within the city limits and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 10 % of the contract value.

Or

_X_ My firm does not qualify as a Tier 1 Vendor.

TIER 2 LOCAL VENDOR

_X_ My firm has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least 15% who are residents of the City of Pompano Beach

And/Or

_____ My firm has maintained a permanent place of business within Broward County and my submittal includes subcontracting commitments to Local Vendors Subcontractors for at least 20% of the contract value.

Or

_____ My firm does not qualify as a Tier 2 Vendor.

I certify that the above information is true to the best of my knowledge.

9/8/25
(Date)

B & M MARINE CONSTRUCTION INC
(Name of Firm)

BY: Robert Glen Bryan
(Name)

LOCAL BUSINESS EXHIBIT "A"
CITY OF POMPANO BEACH, FLORIDA
LOCAL BUSINESS PARTICIPATION FORM

Solicitation Number & Title: HILLSBORO MARINA & ROY ROGERS PARK Prime Contractor's Name: B & M MARINE

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed/Material to be Purchased	Contract Amount or %
TROPIC FENCE - 1824 NW 21 ST ST	954-978-1250	FENCE SUPPLY & INSTALL	
DLS PRESTRESS 1600 SW 13 CT	954-933-9232	PRESTRESS PILINGS SUPPLIER	

LOCAL BUSINESS EXHIBIT "A"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number 25-060

TO: B'M MARINE
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual

X a corporation

_____ a partnership

_____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

SUPPLY PRESTRESS PILINGS

at the following price: 254,719.40

9/9/25
(Date)

DLS Prestressed Inc.
(Print Name of Local Business Contractor)

1600 SW 13 Ct.
(Street Address)

Pompano Beach, FL 33060
(City, State Zip Code)

BY: Ivy Simon
(Signature)

Ivy Simon, General Manager

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "B"
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A LOCAL SUBCONTRACTOR

Solicitation Number 25-060

TO: B & M MARINE
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

_____ an individual

✓ a corporation

_____ a partnership

_____ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

FENCE & RAIL

at the following price: 164,677.00

9/8/25
(Date)

TROPIC FENCE
(Print Name of Local Business Contractor)

1864 NW 21ST,
(Street Address)

POMPANO BEACH 33069
(City, State Zip Code)

BY: _____
(Signature)

IMPORTANT NOTE: Signatures on this form MUST be by an authorized employee of Subcontractor and must be uploaded to the Response Attachment Tab

LOCAL BUSINESS EXHIBIT "B"

LOCAL BUSINESS EXHIBIT "C

LOCAL BUSINESS
UNAVAILABILITY FORM

BID # 25-060

I, Glen Bryant
(Name and Title)

of B & M Marine Construction, certify that on the 8 day of Sept, 2025, I invited the following LOCAL BUSINESSES to bid work items to be performed in the City of Pompano Beach:

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
Pilot Steel	Rebar	Materials
Titan America	Concrete	Materials
Stuart Building	Rebar	Materials

Said Local Businesses:

X Did not bid in response to the invitation

X Submitted a bid which was not the low responsible bid

___ Other:_____

Name and Title: Robert Glen Bryant, President

Date: 9/8/25

Note: Attach additional documents as available.

LOCAL BUSINESS EXHIBIT "D"
GOOD FAITH EFFORT REPORT
LOCAL BUSINESS PARTICIPATION

BID # 25-060

1. What portions of the contract have you identified as Local Business opportunities?

Fence, Prestress Pilings

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

Yes, Stated plans were on lonwave.

3. Did you send written notices to Local Businesses?

____ Yes X No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

____ Yes X No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you ?

Phone calls

7. List the Local Businesses you will utilize and subcontract amount.

Tropic Fence	$ 164,677.00
DLS Prestress	$ 254,719.40
	$

8. Other comments:

LOCAL BUSINESS EXHIBIT "D" – Page 2

_____

_____

_____

Pompano Beach eBid System Bid Addendum Confirmation: ITB25-060 Addendum 1 (Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements)

Message Date	8/5/2025 04:40:25 PM (ET)	Message From	pompanobeachfl@customer.ionwave.net Pompano Beach eBid System
Priority	NORMAL		

Your addendum has been issued by the system on the following opportunity and it is now available to suppliers.

Issue reason: The respective dates for the pre-bid meeting, the questions cut-off, and the bid submission deadline have been changed.

Bid Opportunity Information
Bid Number: ITB25-060 Addendum 1
Bid Title: Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements
Issue Date: 7/30/2025 12:00:04 PM (ET)
Close Date: 9/9/2025 02:00:00 PM (ET)
Question Cut Off Date: 8/29/2025 12:00:00 PM (ET)

Bid Notes
The City of Pompano Beach (the "City") is interested in receiving bids for the Invitation to Bid (ITB) ITB25-060 Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements.

The City of Pompano Beach is undertaking a grant-funded construction project within the area of the Hillsboro Marina (Hillsboro Inlet Fishing Center) and Roy Rogers Park (formerly known as Hillsboro Inlet Park). These two adjacent public waterfront facilities are located on the south side of the Hillsboro Inlet and lie on either side of the SR A1A bridge. They are connected by a road that runs beneath the southern approach to the bridge. The project area is a highly utilized recreational and marine operations corridor that supports both public use and commercial charter services.

The Hillsboro Marina (Hillsboro Inlet Fishing Center), located at 2705 N Riverside Drive, has served as the home of a prominent fishing fleet since the mid-20th century. It currently supports up to ten active fishing charters, as well as drift fishing and dive charters. Adjacent to the facility is Roy Rogers Park, located at 2700 N Ocean Boulevard, which provides scenic waterfront access to the Hillsboro Inlet and the historic lighthouse. The Park includes a variety of amenities such as public restrooms, picnic areas, playgrounds, fishing piers, benches, gazebos, and a floating snorkel platform adjacent to artificial reef structures. It also serves as a critical hub for water taxi services and transient boat dockage.

Due to the time-sensitive and operational nature of both facilities, the construction work will require phased execution and extensive coordination. The contractor must be able to meet deadlines and milestones for construction completion per the grant requirements. The contractor will be responsible for working closely with the City and the local fishing fleet to temporarily relocate, in a phased approach, fishing vessels and fixtures during construction. In addition, each site will require a separate permitting process for each location.

It is critical that both sites remain fully operational throughout the construction process. Any temporary closures or restrictions, particularly related to the fishing fleet, water taxi access, and the Wahoo Bay Marine Sanctuary, must be approved and coordinated in advance with the City.

This project entails providing all labor, equipment, tools, and materials necessary for the seawall and dock improvement project involving two key areas: Hillsboro Marina and Roy Rogers Park.

The system can be accessed at: https://pompanobeachfl.ionwave.net/

Questions about this system can be directed to:
City of Pompano Beach, FL Purchasing Division by emailing Purchasing@copbfl.com or by calling 954-786-4098

Pompano Beach eBid System Bid Addendum Confirmation: ITB25-060 Addendum 2 (Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements)

Message Date	8/26/2025 10:48:15 AM (ET)	Message From	pompanobeachfl@customer.ionwave.net Pompano Beach eBid System
Priority	NORMAL		

Your addendum has been issued by the system on the following opportunity and it is now available to suppliers.

Issue reason: The recordings for the Prebidders conference and list of participants have been uploaded.

Bid Opportunity Information
Bid Number: ITB25-060 Addendum 2
Bid Title: Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements
Issue Date: 7/30/2025 12:00:04 PM (ET)
Close Date: 9/9/2025 02:00:00 PM (ET)
Question Cut Off Date: 8/29/2025 12:00:00 PM (ET)

Bid Notes
The City of Pompano Beach (the "City") is interested in receiving bids for the Invitation to Bid (ITB) ITB25-060 Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements.

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The system can be accessed at: https://pompanobeachfl.ionwave.net/

Questions about this system can be directed to:
City of Pompano Beach, FL Purchasing Division by emailing Purchasing@copbfl.com or by calling 954-786-4098

City of Pompano Beach
Procurement and Contracts Department
1010 N.E. 3rd Avenue
Pompano Beach, Florida, 33060

August 9, 2025

ADDENDUM #3, ITB25-060

ITB25-060 Hillsboro Marina Roy Rogers Park Seawall and Dock Improvements

To Whom It May Concern,

Addendum #3 is posted on the City's eBid website: http://pompanobeachfl.ionwave.net. Acknowledge receipt of this Addendum using the Addendum Attribute on the Attributes tab in the eBid System.

The deadline for receiving written questions in the eBid System has passed.

The deadline for accepting proposals in the eBid system has been extended to **September 11, 2025, at 2:15:00 p.m. (local).**

The remainder of the solicitation is unchanged at this time.

Sincerely,

Jeffrey English, Purchasing Agent.

cc: website

Florida's Warmest Welcome

INVITATION TO BID

ITB25-060

Hillsboro Marina
&
Roy Rogers Park Seawall and Dock Improvements

Bid Opening: <u>September 3, 2025 (2:00:00 P.M.)</u>

Pre-Bidders Conference: <u>August 7, 2025 (10:00 A.M.)</u>

Virtual Zoom Meeting
For access, go to:
https://pompanobeachfl.gov/pages/meetings

SCHEDULE OF EVENTS

ITB documents and Addenda(s) are available and can be downloaded for free from the eBid System as a PDF at: https://pompanobeachfl.ionwave.net

ITB NUMBER:	**ITB25-060**
ITB TITLE:	**Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements**
RELEASE DATES/TIME:	**July 30, 2025, by 12:00 PM**
NON-MANDATORY PRE-BID CONFERENCE (virtual Zoom meeting)	**August 7, 2025, by 10:00 AM**
WRITTEN QUESTIONS AND INQUIRIES ARE DUE ON OR BEFORE:	**August 15, 2025, at 12:00 PM**
ITB RESPONSE DUE DATE/TIME:	**September 3, 2025, at 2:00:00 PM**
RECOMMENDATION FOR AWARD:	**TBD**
DIRECT ALL INQUIRIES TO:	**https://pompanobeachfl.ionwave.net**
E-PROPOSAL SUBMITTALS ONLY:	**https://pompanobeachfl.ionwave.net**
PROPOSAL VIRTUAL OPENING:	**https://pompanobeachfl.gov/pages/meetings**

***Dates in this schedule may be amended by the City in its sole discretion, and no rights shall accrue to any Proposer due to such amendment. Proposers may not rely on dates after the Due Date and Time until confirmed by the City. All times listed are Eastern Standard Time (EST)**

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SECTION 1 – Introduction and General Information

1.1 **Introduction:** The City of Pompano Beach (the "City") will receive sealed bids for Invitation to Bid (ITB) **ITB25-060 Hillsboro Marina & Roy Rogers Park Seawall and Dock Improvements,** until **2:00:00 p.m. (local) September 3, 2025.** Bids must be submitted electronically through the eBid System on or before the due date and time as specified herein. Any bid received after the due date and time specified will not be considered. Any uncertainty regarding the time a bid is received will be resolved against the Bidder.

1.2 **Scope of Work**:

The City of Pompano Beach is undertaking a grant-funded construction project within the area of the **Hillsboro Marina** (Hillsboro Inlet Fishing Center**)** and **Roy Rogers Park** (formerly known as Hillsboro Inlet Park). These two adjacent public waterfront facilities are located on the south side of the Hillsboro Inlet and lie on either side of the SR A1A bridge. They are connected by a road that runs beneath the southern approach to the bridge. The project area is a highly utilized recreational and marine operations corridor that supports both public use and commercial charter services.

The Hillsboro Marina (Hillsboro Inlet Fishing Center), located at 2705 N Riverside Drive, has served as the home of a prominent fishing fleet since the mid-20th century. It currently supports up to ten active fishing charters, as well as drift fishing and dive charters. Adjacent to the facility is Roy Rogers Park, located at 2700 N Ocean Boulevard, which provides scenic waterfront access to the Hillsboro Inlet and the historic lighthouse. The Park includes a variety of amenities such as public restrooms, picnic areas, playgrounds, fishing piers, benches, gazebos, and a floating snorkel platform adjacent to artificial reef structures. It also serves as a critical hub for water taxi services and transient boat dockage.

Due to the time-sensitive and operational nature of both facilities, the construction work will require phased execution and extensive coordination. The contractor must be able to meet deadlines and milestones for construction completion per the grant requirements. The contractor will be responsible for working closely with the City and the local fishing fleet to temporarily relocate, in a phased approach, fishing vessels and fixtures during construction. In addition, each site will require a separate permitting process for each location.

It is critical that both sites remain fully operational throughout the construction process. Any temporary closures or restrictions, particularly related to the fishing fleet, water taxi access, and the Wahoo Bay Marine Sanctuary, must be approved and coordinated in advance with the City.

This project entails providing all labor, equipment, tools, and materials necessary for the seawall and dock improvement project, which involves two key areas (phases): Hillsboro Marina and Roy Rogers Park.

Hillsboro Marina:

- Replacement of the majority of the existing bulkhead, timber dock, and piles.
- Installation of a coated steel sheet pile bulkhead with concrete cap to meet current elevation standards.
- Construction of a new aluminum dock on concrete piles

- Upgrades to electrical, lighting, water, and fire protection systems.
- Resurfacing and regrading of the adjacent parking area.
- Addition of ADA-compliant ramps, sidewalks, and promenade walkways.
- Landscaping improvements

Roy Rogers Park:

- Reconstruction of the bulkhead cap to meet new elevation and resiliency standards.
- Replacement and elevation of the existing fishing & dock piers.
- Installation of new marginal docks to accommodate transient boaters.
- Reconstruction and elevation of the promenade and walkways, with new bollard lighting, plumbing, benches, fish stations, and railings.
- Landscaping improvements.

All work or other operations required to fulfill the contract shall be performed strictly per the Contract Documents. Exhibit 1 – Drawings, and Exhibit 2 - Marina & Park Seawall Supplementary Conditions. **Refer to the attachments tab of the City's eBid System.**

1.3 The bidder must be registered on the City's eBid System in order to view the solicitation documents and respond to this ITB. The solicitation documents can be downloaded for free from the eBid System as a PDF at: https://pompanobeachfl.ionwave.net. The City is not responsible for the accuracy or completeness of any documentation the Bidder receives from any source other than the eBid System. The bidder is solely responsible for downloading all required documents. A list of Bidders will be read aloud in a public forum. To attend the virtual public meeting, go to https://pompanobeachfl.gov/pages/meetings to find the Zoom link.

1.4 **Cone of Silence Notice:** Bidders are hereby notified that this Solicitation is subject to a "Cone of Silence". A Cone of Silence means a prohibition on any communication regarding any particular competitive solicitation between:

- Any person who seeks an award therefrom, including a potential vendor or vendor's representative, and
- Any member of the City Commission, all other city employees, and any non-employee appointed to evaluate or recommend selection in such procurement process. For purposes of this section, Vendor's Representative means an employee, partner, officer, or director of a potential vendor, or consultant, lobbyist, or actual or potential subcontractor or sub-consultant of a vendor.

The "cone of silence" shall terminate at the time the City awards or approves a contract, votes to reject all Proposals or responses, or otherwise takes action that ends the solicitation or other procurement process. If the City Commission refers the item back to the City Manager and staff for further review, the cone of silence shall remain in effect until an award is made, a contract is approved, or the City Commission takes any other action that ends the solicitation or other procurement process.

1.5 **Line Items:** All bid figures **must** be entered into the City's eBid System Line Items tab. The City is currently considering the inclusion of certain allowances related to charter kiosks, utilities, contingency, permits, etc. The values of these allowances shall not be included in the bid advertisement. The allowances will be evaluated and incorporated into the total bid amount during

the bid review process, and they will be taken into account when determining the lowest responsive and responsible bidder after the bid opening.

1.6 **NON-MANDATORY PRE-BIDDERS CONFERENCE**: A non-mandatory pre-bid conference will be held virtually through a Zoom meeting on **August 7, 2025, at 10:00 AM.** For access, go to: https://pompanobeachfl.gov/pages/meetings. It is the responsibility of each Bidder before submitting a bid to visit the site to become familiar with local conditions that may affect costs, progress, performance, or furnishing of the work. The pre-bidders conference will provide an opportunity to discuss project specifications and address any questions. By this notification, the City is encouraging all bidders to participate in both events.

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SECTION 2 – DEFINITIONS

All Definitions and Terms used in this bid are referenced and should be understood in accordance with the definitions provided in the Procurement and Contracts Department Procedures Manual, which can be accessed via the following link:

https://cdn.pompanobeachfl.gov/city/pages/purchasing/Procurement-Contracts-Department-Procedures-Manual-5.14.25.pdf

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SECTION 3 - BIDDER'S RESPONSIVENESS AND RESPONSIBILITY

The contract will be awarded to the lowest responsive and responsible bidder, as determined by the total bid amount, which shall include all applicable allowances and deductions. The lowest bid will be evaluated based on the total bid price, provided that the bid is responsive to the bidding documents and the bidder is deemed responsible, possessing the capability, experience, and resources necessary to complete the project successfully.

In determining the lowest responsive and lowest responsible Bidder and that the purchase or contract will best serve the interests of the City, the Commission, the City Manager, or the Procurement and Contracts Director, where applicable, shall consider various factors. These factors include, but are not limited to, price and the following:

3.1 Responsiveness: Each bid shall be reviewed in accordance with the conditions provided herein. If a Bidder fails to satisfy these conditions, the city may deem the bid non-responsive and not consider it for further review.

a. Each Bid must be submitted prior to the deadline provided in the eBid System. Submission will not be accepted outside the eBid System, including but not limited to faxed, emailed, or hand-delivered submissions to the City's Procurement and Contracts Department. Any uncertainty regarding the time a bid is received will be resolved against the Bidder. Bidders shall contact the Purchasing Agent representative at 954-786-4099 in such a case for special permission.

b. Qualification of Bidders form must be completed and uploaded to the Response Attachments tab of the City's eBid System.

3.2 **Responsibility Documentation**: To demonstrate the Bidder's responsibility, the Bidder must submit to the City the information provided herein. Submittals requested pursuant to this paragraph are in addition to those required elsewhere.

a. **Bid Security Bond**: Each bid requires a cashier's check or Bid Bond executed on the prescribed form, payable to the City of Pompano Beach, P.O. Box 1300, Pompano Beach, Florida 33061, in an amount of five percent (5%) of the bid amount. Bidder shall upload a copy of its Bid Bond or a copy of the cashier's check to the Response Attachments tab in the eBid System. The Awarded Bidder will be required to submit the original executed Bid Bond or cashier's check prior to the execution of the contract and before the commencement of any work (**see Attachment J**).

The bid bond of the Awarded Bidder will be retained until such Bidder has executed the Contract and furnished (if required) contract security (if provided as a cashier's check or certified check), whereupon the bid security will be returned. If the Awarded Bidder fails to execute and deliver the Contract and furnish the required contract security within ten (10) days after the Notice of Award, the City may annul the Notice of Award, and the bid bond of that Bidder will be forfeited. The bid security bond of other Bidders whom the City believes to have a reasonable chance of receiving the award may be retained by the City until a completed contract has been executed, whereupon bid security furnished by such Bidders will be returned.

If provided, the executed Bid Bond shall be issued by an entity with a registered agent in the State of Florida. The City shall retain this check or bond as liquidated damages should the Bidder refuse or fail to enter into a contract with the City for the execution of the work embraced in the bid if the bid is accepted.

b. **Prior Project Experience and References**: Bidder must provide the following verifiable information with the bid at the time it is submitted:

i. Evidence that Bidder was the Prime Contractor on three (3) similar projects completed (final completion) within the last five (5) years. Each project submitted as qualifying experience must be located within the Southeast District of Florida in the continental United States, have a contract $2,000,000 or greater, and must be of similar complexity and scope to the project described in this ITB. Bidder must describe the following:

1) the project and the work completed by Bidder,
2) how the referenced project relates to the ITB, and,
3) the amount paid to the Bidder for the work completed;

ii. At least one verifiable contact (client) reference for each project described previously. The bidder must provide the client's name, phone number, and e-mail address for each project. If the Bidder has done work for the City of Pompano Beach, the City may, at its discretion, rely on the City's past performance records or may contact references. The City will only attempt to contact each reference three times.

iii. If the Bidder fails to provide the previously described items, or if the City is unable to reach a reference after three (3) attempts, the City may deem the Bidder non-responsible.

iv. The City reserves the right, at its sole discretion, to deem a Bidder's response non-responsible and reject it if the references submitted do not conform to the above, or the references are deemed unsatisfactory to the City.

v. The Procurement and Contracts Department staff will review and verify all provided references to ensure accuracy and authenticity.

c. License Requirements—At the time of bid submission, Bidders must possess and provide proof of an active General Contractor license issued by the State of Florida. Failure to demonstrate such licensure will result in the bid being disqualified.

d. Corporations and Partnerships - The City will review the Bidder's business to confirm that it is in good standing with the Florida Department of State, Division of Corporations, based on the information provided in the Qualification of Bidders Form (refer to the attachments tab of the City's eBid System).

e. Have a satisfactory past and/or current performance record, based on the information gathered by the City regarding Bidder's performance on past or current contracts. The City shall rely on the contractor's periodic performance evaluations and any other reasonable and

reliable sources within the City's organization and control from past and present City projects, where applicable.

f. Have the necessary production capacity, construction, and technical equipment and facilities, or the ability to obtain them.

g. Provide satisfactory evidence that such elements as production control procedures, property control systems, quality assurance procedures, and safety programs applicable to work to be produced or services to be performed by the Bidder, Suppliers, and Subcontractors are present.

h. Have the necessary management organization, experience, technical skills, accounting and operational controls, plan, manpower, and financial resources, and be otherwise qualified and eligible to perform the work under applicable laws and regulations.

i. A construction schedule demonstrating the bidder's ability to accomplish the work within the contract time, including major project tasks, durations, and who will complete (bidder or name of subcontractor). The construction must be completed no later than September 30, 2026.

The City does not consider social, political, or ideological interest in determining the Contractor's responsibility in compliance with Florida Statute 287.05701.

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SECTION 4 - AWARD OF SOLICITATION AND RESULTING CONTRACT

4.1 The contract will be awarded to the lowest responsive and responsible bidder, as determined by the total bid amount, which shall include all applicable allowances and deductions.

The City reserves the right to reject any and all bids, to waive any and all informalities not involving price, time, and changes in the work, and to negotiate contract terms with the Awarded Bidder, and the right to disregard all nonconforming, nonresponsive, unbalanced, or conditional bids. Also, the City reserves the right to reject the bid of any Bidder if the City believes that it would not be in the best interest of the Project to make an award to that Bidder, whether because the bid is not responsible, or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by the City. Therefore, discrepancies between the indicated sum of any column of figures and the correctly tabulated sum of any column will be resolved in favor of the correctly tabulated sum of any column.

The City requires that all bidders submit cost estimates that are consistent with fair market pricing. All bids will be reviewed to ensure that proposed costs align with current industry standards for similar projects. If any submitted bid is found to be substantially higher or lower than what is deemed reasonable by prevailing market conditions. Suppose any submitted bid is found to be substantially higher or lower than what is deemed reasonable by prevailing market conditions. In that case, the City reserves the right to reject the bid in question. Such determinations will consider both the overall project cost and individual line items within the bid. The City may rely on independent evaluations, cost databases, or comparative analyses to establish fair market ranges.

In submitting a bid, each bidder acknowledges and agrees that:

1. Submitted proposed costs reflect competitive pricing within the industry.
2. Bidder understands and accepts that bids with significantly inflated or deflated costs, relative to fair market standards, may be excluded from consideration without further recourse.

4.2 In evaluating bids, the City will consider the bidders' qualifications, whether or not the bids comply with the prescribed requirements, and such alternates, unit prices, and other data as may be requested in the ITB or prior to the Notice of Award.

4.3 The City may consider the qualifications and experience of Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the work as to which the identity of Subcontractors, Suppliers, and other persons and organizations must be submitted as provided in the Supplementary Conditions. The City also may consider the operating costs, maintenance requirements, performance data, and guarantees of major items of materials and equipment proposed for incorporation in the work when such data is required to be submitted prior to the Notice of Award.

4.4 Procurement and Contracts Department, may conduct investigations as the City deems necessary to assist in the evaluation of any bid and to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, and other persons and organizations to perform and furnish the work in accordance with the Contract resulting from the ITB to the City's satisfaction within the prescribed time.

4.5 The Awarded Bidder will receive an automatically generated notice of award from the eBid System or an email notification from the City's Procurement and Contracts Department.

4.6 **City reserves the right to postpone the award of the Contract for a period which shall not exceed one hundred twenty (120) days from the Bid unsealing date.** City may, at its sole discretion, release any bid and return the Bid Security prior to that date. City also reserves the right to ask for additional postponement time, for which the Bidder may provide a written binding acceptance. An email to the purchasing agent from an authorized agent of the Bidder shall be considered a written, binding acceptance of the postponement time.

4.7 The Awarded Bidder will be required to furnish the necessary additional bond(s) for the faithful performance of the Contract Documents. All Bid Bonds, Contract Bonds, Insurance Contracts, and Certificates of Insurance shall be either executed by or countersigned by a licensed resident agent of the surety or insurance company having its place of business in the State of Florida and in all ways complying with the insurance laws of the State of Florida. Further, the said surety or insurance company shall be duly licensed and qualified to do business in the State of Florida. **Bid Bonds are required for all Bids; Performance and Payment Bonds are required for projects over two hundred thousand dollars ($200,00.00). Performance and Payment Bonds must be recorded with Broward County. Insurance is required for all bids.**

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SECTION 5 - INSTRUCTIONS TO BIDDERS AND SPECIFIC CONDITIONS

5.1 Defined Terms: Terms used in these Instructions to Bidders have the meanings assigned to them in the General Conditions. The term "Bidder" means one who submits a bid directly to the City, as distinct from a sub-bidder, who submits a bid to a Bidder. The term "Awarded Bidder" means the lowest, qualified, responsible, and responsive Bidder to whom the City (based on the City's evaluation as hereinafter provided) makes an award. The term "ITB Documents" includes the ITB, attachments, and all addenda issued prior to receipt of bids. Refers to Section 2 for additional definitions.

5.2 Copies of ITB Documents:

a. Complete sets of the ITB Documents may be obtained from the City's website at no charge.

b. Complete sets of ITB Documents must be used in preparing bids; the City assumes no responsibility for errors or misinterpretations resulting from the use of incomplete sets of ITB Documents.

c. City, in making copies of ITB Documents available on the above terms, does so only to obtain bids on the work and does not confer a license or grant for any other use.

5.3 Qualifications of Bidders: To demonstrate qualifications to perform the work and to be considered for the award, each Bidder must submit written evidence, such as previous experience, present commitments, and other such data as may be required in the Qualification of Bidders document available in the "Attachments" tab of the City's eBid System. Attachment Qualification of Bidders (**see IonWave Attachments and Response Attachments tabs**)

5.4 Public Entity Crimes: In accordance with Section 287.133 (2)(a), Florida Statutes: A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a Contractor, Supplier, Subcontractor or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided Section 287.017, Florida Statutes for CATEGORY TWO for a period of thirty-six (36) months from the date of being placed on the convicted vendor list.

5.5 Drug-Free Workplace: In accordance with Section 287.087, State of Florida Statutes, preference shall be given to businesses with Drug-Free Workplace Programs.

5.6 Anti-Kickback Act: The Awarded Bidder must comply with the Copeland "Anti-Kickback Act" (19 U.S.C. Section 874), as supplemented in the United States Department of Labor Regulations DOL 29 CFR, Part 3 (https://www.ecfr.gov/current/title-29/subtitle-A/part-3).

5.7 Examination of ITB Documents and Sites:

5.7.1 It is the responsibility of each Bidder before submitting a bid, to:

a. Examine the ITB Documents thoroughly,

b. Visit the site to become familiar with local conditions that may affect costs, progress, performance, or furnishing of the work,
c. Consider Federal, State, and Local Laws and Regulations that may affect the cost, progress, performance, or furnishing of the work,
d. Study and carefully correlate Bidder's observations with the ITB Documents, and,
e. Notify the City of all conflicts, errors, or discrepancies in the ITB Documents.

5.7.2 Information and data reflected in the ITB Documents concerning or contiguous to the site are based upon information and data furnished to the City by owners of such facilities or others, and the City does not assume responsibility for accuracy or completeness thereof unless it is expressly provided otherwise.

5.7.3 Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders on subsurface conditions, underground facilities, and other physical conditions, and possible changes in the ITB Documents due to differing conditions appearing in the General Conditions section of the ITB.

5.7.4 Before submitting a bid, each Bidder will, at Bidder's own expense, make or obtain any additional examinations, investigations, explorations, tests, and studies and obtain any additional information and data that pertain to the physical conditions (surface, subsurface, and underground facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance or furnishing of the work and which Bidder deems necessary to determine its bid for performing and furnishing the work in accordance with the time, price and other terms and conditions of the ITB Documents.

5.7.5 On request in advance, the City will provide each Bidder with access to the site to conduct such explorations and tests as each Bidder deems necessary for the submission of a bid. Bidder shall fill all holes, clean up, and restore the site to its former condition, or better, upon completion of such explorations.

5.7.6 The lands upon which the work is to be performed, rights-of-way and easements for access thereto, and other lands designated for use by the Contractor in performing the work are identified in the ITB Documents. The Contractor will provide all additional lands and access required for temporary construction facilities or storage of materials and equipment. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by the City unless otherwise provided in the Contract resulting from the ITB.

5.7.7 The electronic submission of a bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of the ITB Documents, that without exception, the bid is premised upon performing and furnishing the work required by the ITB Documents and such means, methods, techniques, sequences or procedures of construction as may be indicated in or required by the ITB Documents, and that the ITB Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance and furnishing of the work.

5.8 Interpretations and Addenda

a. All questions must be submitted using the Questions feature in the eBid System. All questions must be submitted by 12:00:00 P.M. on the date specified in IonWave. No further questions will be accepted after this date. Oral and other interpretations or clarifications will be without legal effect.

b. If any addendum is issued to the ITB, the addendum will be issued via the eBid System. It shall be the responsibility of each Bidder, prior to submitting its bid, to contact the City's Procurement and Contracts Department at (954) 786 - 4099 to determine if any addendum was issued and to make such addendum a part of its bid. The addendum will be posted in the eBid System.

c. An addendum may also be issued to modify the ITB as deemed advisable by the City.

5.9 Contract Time: The number of days within which, or the dates by which, the work is to be substantially completed and also completed and ready for final payment (the Contract Time). The terms of the contract will be finalized and specified separately for each project. Bidders are advised that contractual requirements, scope, and obligations may vary depending on the specific project and will be detailed in the individual contract agreements issued upon award. This project has a critical requirement that **construction must be substantially completed no later than September 30, 2026**.

5.10 Liquidated Damages: Provisions for liquidated damages, if any, are outlined in the Contract.

5.11 Substitute or "Or-Equal" Items: The Contract, if awarded, shall be on the basis of materials and equipment described in the drawings or specified in the specifications without consideration of possible substitute or "or-equal" items. Whenever it is indicated in the Drawings or specified in the Specifications that a substitute or "or-equal" item of material or equipment may be furnished or used by the Awarded Bidder/Contractor if acceptable to the City, application for such acceptance will not be considered by the City until after the effective date of the Contract.

5.12 Subcontractors, Suppliers, and Others.

a. Each bid must identify the names and addresses of Subcontractors, Suppliers, and other persons and organizations, including those who are to furnish the principal items of material and equipment listed in the "Line Items" tab of the City's eBid System. If requested, the apparent lowest Bidder, and any other Bidder so requested, shall, within seven (7) days after the ITB opening, submit to the City a list of all such Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the work for which such identification is required. Such a list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each Subcontractor, Supplier, other persons, or organization, if requested by the City. If the City has a reasonable objection to any proposed Subcontractor, Supplier, other person, or organization, it may, before the Notice of Award is given, request the apparent lowest Bidder to submit an acceptable substitute without an increase in Bid Price. If the apparent lowest Bidder declines to make any such substitution, the City may award the Contract to the next lowest Bidder that proposes to use acceptable Subcontractors, Suppliers, and other persons and organizations. The declining to make requested substitutions will not constitute grounds

for sacrificing the Bid Security of any Bidder. Any Subcontractor, Supplier, other person, or organization listed and to whom the City does not make written objection prior to the giving of the Notice of Award will be deemed acceptable to the City subject to revocation of each acceptance after the Effective Date of Contract.

b. In contracts where the Contract Price is based on the cost of the work plus a fee, the apparent lowest Bidder, prior to the Notice of Award, shall identify in writing to the City those portions of the work that such Bidder proposes to subcontract and after the Notice of Award may only subcontract other portions of the work with the City's written consent.

c. No Contractor shall be required to employ any Subcontractor, Supplier, other person, or organization against whom the Contractor has reasonable objection.

5.13 Bidder Acknowledgment (See SECTION 7)

a. The Bidder Acknowledgement is included with the ITB.

b. All requested information on the Bidder Acknowledgement is to be provided electronically using the City's eBid System.

c. In case of a discrepancy between unit prices and totals, unit prices will prevail.

5.14 Submission of Bids

a. Bids shall be submitted electronically using the City's eBid System on or before the due date and time specified herein.

b. More than one bid received for the same work from an individual, firm partnership, corporation, or association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one bid for the same work will cause the rejection of all such bids in which the Bidder is interested. If there are reasonable grounds for believing that collusion exists among the Bidders, the bids of participants in such collusion will not be considered.

c. Bid tabulations will be posted for the bid in the City's eBid System. Bid results ***will not*** be read to you over the phone.

5.15 Modification and Withdrawal of Bids

a. Bids may be modified or withdrawn at any time prior to the due date and time of the opening of bids by using the "Retract" feature of the City's eBid System.

b. After bids are opened, and the Awarded Bidder defaults on a City Contract, the Awarded Bidder may be banned from doing business with the City for thirty-six (36) months from the date of default.

5.16 Unsealing of Bids: A list of Bidders will be read aloud in a public forum. An abstract of the amounts of the base bids and major alternates (if any) will not be made available to Bidders until the City reviews the responsiveness and responsibility of each bid. Then, a tabulation is posted.

a. The City reserves the right, at its sole discretion, to extend the date and time for the opening of bids and any other activity related to the solicitation process, including but not limited to submission deadlines, site visits, pre-bid conferences, or clarification periods. Such extensions will be communicated to all registered or interested bidders in a timely manner and shall apply uniformly to all respondents. Bidders are responsible for monitoring official communications for any updates or changes to the bidding schedule.

b. The results announced following the bid opening are preliminary and do not constitute a final award or approval. All bids are subject to further evaluation by the Procurement and Contracts Department for responsibility and responsiveness in accordance with the applicable procurement Ordinances, Florida Statutes, and regulations. The City reserves the right to accept or reject any or all bids, to waive informalities and minor irregularities, and to award the contract in the best interest of the organization.

5.17 Bids to Remain Subject to Acceptance

a. All bids will remain subject to acceptance for one hundred twenty (120) days after the bid deadline, but the City may, in its sole discretion, release any bid and return the Bid Security prior to that date.

b. Extensions of time when bids shall remain open beyond the one hundred and twenty (120) day period may be made only by mutual agreement between the City, the apparent lowest responsive and lowest responsible bidder, and the surety, if any, for the Awarded Bidder.

5.18 Contract Security: For projects over two hundred thousand dollars ($200,000), when the Awarded Bidder delivers the executed Contract to the City, it must be accompanied by the required Performance and Payment Bonds. Performance and Payment bonds must be recorded with Broward County.

5.19 Execution of Contract: When the City makes a recommendation to award a vendor a contract to the lowest responsible and responsive bidder, the signed Contract by the vendor will be presented to the commission for approval. Within ten (10) days thereafter, the Contractor shall provide all required documents to the City with the required Bonds. Within fifteen (15) days thereafter, the City shall deliver one fully signed counterpart to the Contractor.

5.20 Employment Eligibility: By entering into a resulting contract with the City, the Contractor becomes obligated to comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility." This includes but is not limited to the utilization of the E-Verify System to verify the work authorization status of all newly hired employees and requiring all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Failure to comply will lead to termination of the Contract, or if a subcontractor knowingly violates the statute, the subcontract must be terminated immediately. Any challenge to termination under this provision must be filed in the Circuit or County Court no later than 20 calendar days after the date of termination. If this awarded contract is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for 1 year after the date of termination.

5.21 **Taxes:** The Contractor shall pay all applicable sales, consumer, use, and other similar taxes required by law. The Contractor is responsible for reviewing the pertinent state statutes involving the sales tax and complying with all requirements.

5.22 **Notice To Contractor:** Pursuant to Chapter 8 CFR 274a.2" (see link) https://www.govinfo.gov/content/pkg/CFR-2017-title8-vol1/pdf/CFR-2017-title8-vol1-sec274a-2.pdf, the employment of unauthorized aliens by any Contractor is considered a violation of the Immigration and Nationality Act. If the Contractor knowingly employs unauthorized aliens, such violation shall be cause for unilateral cancellation of the Contract.

5.23 **Non-Discrimination:** There shall be no discrimination as to race, color, sex, religion, national origin, disability, age, marital status, political affiliation, sexual orientation, pregnancy, or gender identity and expression in the operations conducted under the Contract.

5.24 **Occupational Health and Safety:** In compliance with Section 442, Florida Statutes, any items included in the latest edition of "Florida Substance List", which are delivered from a Contract resulting from the ITB, must be accompanied by a Safety Data Sheet (SDS). The SDS must be maintained by the City and must include the following information:

a. The chemical name and the common name of the toxic substance.

b. The hazards or other risks in the use of toxic substances, including:
   i. The potential for fire, explosion, corrosiveness, and reactivity.
   ii. The known acute and chronic health effects of risks from exposure, including the medical conditions that are generally recognized as being aggravated by exposure to the toxic substance; and
   iii. The primary routes of entry and symptoms of overexposure.

c. The proper precautions, handling practices, necessary personal protective equipment, and other safety precautions in the use of or exposure to toxic substances, including appropriate emergency treatment in case of overexposure.

d. The emergency procedure for spills, fire disposal, and first aid.

e. A description in lay terms of the known specific potential health risks posed by the toxic substance, intended to alert any person reading this information.

f. The year and month, if available, that the information was compiled, and the name, address, and the emergency telephone number of the manufacturer responsible for preparing the information.

Any questions regarding Section 442, Florida Statutes, should be directed to:

Department of Labor and Employment Security, Division of Safety, 2002 Old St. Augustine Road, Tallahassee, Florida, 32399; telephone: 1-800-367-4378.

ALL TOXIC SUBSTANCES MUST BE LABELED FOR IDENTIFICATION, IN ACCORDANCE WITH OSHA STANDARDS.

Notice: For us to process payment, your invoice must reference the federal ID number. Please note the ID number on the Bid Response page.

5.25 **Waste Removal Services:** The City has contracted with Coastal Waste & Recycling, Inc., for residential and commercial solid waste collection and disposal services. The City has granted to Coastal Waste & Recycling, Inc., the sole and exclusive right, franchise, license, and privilege to provide non-hazardous solid waste collection, removal, and disposal services within the corporate limits of the City, including collection and removal of certain Construction and Demolition Debris. The Awarded Bidder/Contractor shall coordinate with Coastal Waste & Recycling, Inc., the level and type of service to be provided, and the manner of collection charges. Any Contractor or Subcontractor performing construction work within the City of Pompano Beach must use the City's franchised hauler for garbage removal services including removal of Construction and Demolition Debris generated over ten (10) cubic yards, with the exception of Source Separated Recovered Materials as defined in Section 403.703(24), Florida Statutes and Chapter 96 of the City Ordinance. The City's current franchised hauler is Coastal Waste & Recycling, Inc., which may be contacted directly for dumpsters and/or roll-offs at:

Coastal Waste & Recycling, Inc.
1840 NW 33rd Street
Pompano Beach, FL 33064
(954) 947-4000

5.26 **Permits and Fees:** The Contractor awarded the project, which is the scope of the ITB, shall be required to obtain and pay for the permits and/or fees indicated on the chart below in the amounts set forth or pursuant to the formula for percent or unit method which is indicated.

Fees cannot be waived and must be collected by the City from the Contractor. Contact the City Department below for additional details regarding the required permit and fee.

FEE OR PERMIT	CITY DEPARTMENT	COST (SET FEE OR PERCENT OF PROJECT AMOUNT)
All construction within the City right-of-way	Engineering	Waived
All utilities tie-ins to City water, sewers, and drainage	Engineering	Waived
Paving	Engineering	Waived
Fire plan review for new construction, additions, and alterations	Building Inspection	See City Code of Ordinances 95.14
Fire alarm and fire sprinkler plan review (new installations)	Fire Plan Review	See City Code of Ordinances 95.14
Fire hydrant flow test	Fire Plan Review	See City Code of Ordinances 95.14
Business Tax Receipt (only if the Contractor has a temporary office in the City of Pompano Beach)	Zoning	See City Code of Ordinances
Site plan review	Zoning	See City Code of Ordinances
Rezoning	Zoning	See City Code of Ordinances
Variance	Zoning	See City Code of Ordinances
Tree Permit application fee	Zoning	See Zoning Code/City Code of Ordinances
Landscape reinspection fee	Zoning	See Zoning Code/City Code of Ordinances
Capital recovery fees	Customer Service	See City Code of Ordinances 50.13 and 51.11
Tapping fee	Customer Service	See City Code of Ordinances

Deposits (water bill)	Customer Service	Deposit based upon size of meter (only applies if Contractor responsible for water bills during period between meter installation and City acceptance of project.)
Administrative fee	Customer Service	See City Code of Ordinances
Building permit	Building Inspection	See Bldg. Fee Schedule/City Code of Ordinances
Building Reinspection fee	Building Inspection	See Bldg. Fee Schedule/City Code of Ordinances
Certificate of occupancy	Building Inspection	See Bldg. Fee Schedule/City Code of Ordinances
Lien law	Building Inspection	$5.00
Surcharge Bro. Co. Bd. of Rules & Appeals	Building Inspection	$0.60 per $1,000 valuation
Surcharge Fla. Statute 553.721	Building Inspection	1.5% of permit fees, minimum $2.00
Surcharge Fla. Statute 468.631	Building Inspection	1.5% of permit fees, minimum $2.00

5.27 Project Web Requirements

5.27.1 This project will utilize e-Builder Enterprise™, a web-based project management tool. This web-based application is a collaboration tool that will allow all project team members continuous access through the Internet to important project data and up-to-the-minute decision and approval status information.

5.27.2 e-Builder Enterprise™ is a comprehensive Project and Program Management system that the City will use to manage all project documents, communications, and costs between the Lead Consultant, Sub-Consultants, Design Consultants, Contractor, and Owner. e-Builder Enterprise™ includes extensive reporting capabilities to facilitate detailed project reporting in a web-based environment that is accessible to all parties and easy to use. Training will be provided for all Consultants selected to offer services to the City of Pompano Beach.

5.27.3 Lead and Sub-Consultants shall conduct project controls outlined by the Owner, Project Manager, and/or Construction Manager, utilizing e-Builder Enterprise™. **The City shall provide the designated web-based application license(s) to the Prime Consultant and the awarded Contractor at no cost.** No additional software will be required.

5.27.4 Lead Consultant and Sub-Consultants shall be responsible for logging in to the project website on a daily basis and, as necessary, being kept fully apprised of project developments and required action items. These may include but are not limited to: Contracts, Contract Exhibits, Contract Amendments, Drawing Issuances, Addenda, Bulletins, Permits, Insurance & Bonds, Safety Program Procedures, Safety Notices, Accident Reports, Personnel Injury Reports, Schedules, Site Logistics, Progress Reports, Correspondence, Daily Logs, Non-Conformance Notices, Quality Control Notices, Punch Lists, Meeting Minutes, Requests for Information, Submittal Packages, Substitution Requests, Monthly Payment Request Applications, Supplemental Instructions, Owner Change Directives, Potential Change Orders, Change Order Requests, Change Orders and the like. All supporting data, including but not limited to shop drawings, product data sheets, manufacturer data sheets and instructions, method statements, material safety data sheets, Substitution Requests, and the like, will be submitted in digital format via e-Builder Enterprise™.

5.28 **Conflict of Interest**: Section 112.313 (3) and (7), Florida Statutes, sets forth restrictions on the ability of City employees acting in a private capacity to rent, lease, or sell any realty, goods, or

services to the City. It also places restrictions on the City employees concerning outside employment or contractual relationships with any business entity that is doing business with the City. Each Proposer is to disclose any employees it has who are also City employees with its bid. Any employees identified by the Proposer should obtain legal advice as to their obligations and restrictions under Section 112.313 (3) and (7), Florida Statutes.

5.29 **Protesting of Bid Conditions/Specifications**: Any person desiring to protest the conditions/specifications in this ITB, or any Addenda subsequently released thereto, shall file a notice of intent to protest, in writing, within 72 hours after the electronic release of the competitive solicitation or Addendum and shall file a formal written protest within ten (10) calendar days after the date the notice of protest was filed. Fridays, Saturdays, Sundays, state holidays, or days during which the City administration is closed shall be excluded from the computation of the 72 hours. If the tenth calendar day falls on a Friday, Saturday, Sunday, state holiday or day during which the City administration is closed, the formal written protest must be received on or before 5:00 p.m. ET of the next calendar day that is not a Friday, Saturday, Sunday, state holiday or day during which the City administration is closed. Section 120.57(3)(b), Florida Statutes, as currently enacted or as amended from time to time, states that "The formal written protest shall state with particularity the facts and law upon which the protest is based." Failure to file a notice of protest or to file a formal written protest within the time prescribed by Section 120.57(3), Florida Statutes, shall constitute a waiver of proceedings. Notices of protest, formal written protests, and the bonds required by the General Services Procedures Manual shall be filed at the office of the Director, Procurement and Contracts Department, 1010 NE 3 Avenue, Pompano Beach, FL 33060.

5.30 **Posting of Bid Recommendations/Tabulations**: ITB Recommendations and Tabulations will be posted on http://www.pompanobeachfl.ionwave.net and will remain posted for 72 hours. Any change to the date and time established herein for the posting of ITB Recommendations/Tabulations shall be posted at http://www.pompanobeachfl.ionwave.net. In the event the date and time of the posting of ITB Recommendations/Tabulations are changed, it is the responsibility of each Bidder to ascertain the revised date of the posting of ITB Recommendations/Tabulations. Any person desiring to protest the intended decision shall file a notice of protest, in writing, within 72 hours after the posting of the ITB tabulation and shall file a formal written protest within ten (10) calendar days after the date the notice of protest was filed. Fridays, Saturdays, Sundays, state holidays, and days during which the City administration is closed shall be excluded from the computation of the 72 hours. If the tenth calendar day falls on a Friday, Saturday, Sunday, state holiday, or day during which the City administration is closed, the formal written protest must be received on or before 5:00 p.m. ET of the next calendar day that is not a Friday, Saturday or Sunday, state holiday or days during which the City administration is closed. No submissions made after the Bid opening, amending or supplementing the Bid shall be considered. Section 120.57(3)(b), Florida Statutes, as currently enacted or as amended from time to time, states that "The formal written protest shall state with particularity the facts and law upon which the protest is based". Any person who files an action protesting an intended decision shall physically deliver and post with the City, at the time of filing the formal written protest, an original bid protest bond, payable to the City, in an amount equal to one percent (1%) of the City's estimate of the total volume of the contract. The City shall provide the estimated contract amount to the Proposer within 72 hours, excluding Fridays, Saturdays, Sundays, and other days during which the City administration is closed, of receipt of notice of intent to protest. The estimated contract amount is not subject to protest pursuant to Section 120.57(3), Florida Statutes. The bid protest bond shall be conditioned upon the payment of all costs which may be adjudged against the protester in an Administrative Hearing in which the action is brought and in any subsequent appellate court proceeding. In lieu of a bid protest bond, the City may accept a

cashier's check, official bank check, or money order in the amount of the bond. If, after completion of the Administrative Hearing process and any appellate court proceedings, the City prevails, the City shall recover all costs and charges which shall be included in the Final Order or judgment, including charges made by the Division of Administrative Hearings, but excluding attorney's fees. Upon payment of such costs and charges by the protestant, the bid protest bond shall be returned. If the protester prevails, then the protester shall recover from the City all costs and charges incurred by the City. Payment options can be made by electronic check (e-check), Visa, MasterCard, or use of an established escrow account code.

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SECTION 6 - LOCAL BUSINESS PROGRAM

On March 13, 2018, the City Commission approved Ordinance 2018-46, establishing a Local Business Program, a program to increase the participation of City businesses in the City's procurement process.

For purposes of this solicitation, "Local" will be defined as follows:

1. **TIER 1 LOCAL VENDOR**. POMPANO BEACH BUSINESS EMPLOYING POMPANO BEACH RESIDENTS. A business entity that has maintained a permanent place of business within the city limits and maintains a staffing level, within this local office, of at least ten percent (10%) who are residents of the City of Pompano Beach or includes subcontracting commitments to Local Vendor Subcontractors for at least ten percent of the contract value. The permanent place of business may not be a post office box. The business must be located in a non-residential zone and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the City. In addition, the business must have a current business tax receipt from the City for a minimum of one year prior to the date of issuance of the current solicitation.

2. **TIER 2 LOCAL VENDOR**. BROWARD COUNTY BUSINESS EMPLOYING POMPANO BEACH RESIDENTS OR UTILIZING LOCAL VENDOR SUBCONTRACTORS. A business entity, which has maintained a permanent place of business within Broward County and maintains a staffing level, within this local office, of at least fifteen percent (15%) who are residents of the City of Pompano Beach or includes subcontracting commitments to Local Vendor Subcontractors for at least twenty percent (20%) of the contract value. The permanent place of business may not be a post office box. The business must be located in a non-residential zone and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the respective Broward County municipality for a minimum of one year prior to the date of issuance of a solicitation.

3. **LOCAL VENDOR SUBCONTRACTOR**. POMPANO BEACH BUSINESS. A business entity, which has maintained a permanent place of business within the city limits of the City of Pompano Beach. The permanent place of business may not be a post office box. The business must be located in a non-residential zone and must actually distribute goods or services from that location. The business must be staffed with full-time employees within the limits of the city. In addition, the business must have a current business tax receipt from the City of Pompano Beach for a minimum of one year prior to the date of issuance of a solicitation.

You can view the list of City businesses that have a current Business Tax Receipt on the City's website and locate local firms that are available to perform the work required by the ITB specifications. The business information, sorted by business use classification, is posted on the webpage for the Business Tax Receipt Division: www.pompanobeachfl.gov by selecting the Pompano Beach Business Directory in the section "Shop Pompano!".

The City of Pompano Beach is strongly committed to ensuring the participation of City Businesses as Contractors and Subcontractors for the procurement of goods and services, including labor,

materials, and equipment. Bidders are required to participate in the City of Pompano Beach's Local Business Program by including, as part of their package, the Local Business Participation Form (Exhibit A) listing the local businesses that will be used on the Contract, and the Letter of Intent Form (Exhibit B) from each local business that will participate in the Contract.

For a list of certified minority businesses with the State of Florida please see the following link: https://www.dms.myflorida.com/business_operations/state_purchasing/office_of_supplier_development_osd/certified_vendor_reports

If a Prime Contractor/Vendor is not able to achieve the level of goal attainment of the Contract, the Prime Contractor/Vendor will be requested to demonstrate and document that good faith efforts were made to achieve the goal by providing the Local Business Unavailability Form (Attachment C), listing firms that were contacted but not available, and the Good Faith Effort Report (Attachment D), describing the efforts made to include local business participation in the Contract. This documentation shall be provided to the City Commission for acceptance.

The Awarded Bidder/Contractor will be required to submit "Local Business Subcontractor Utilization Reports" during projects and after projects have been completed. The reports will be submitted to the assigned City project manager of the project. The Local Business Subcontractor Utilization Report template and instructions have been included in the ITB document.

Failure to meet Local Vendor Goal commitments will result in an "unsatisfactory" compliance rating. Unsatisfactory ratings may impact the award of future projects if a sanction is imposed by the City Commission.

The City shall award a Local Vendor preference based upon vendors, Contractors, or Subcontractors who are local with a preference as follows:

1. For bid evaluation purposes, Tier 1 businesses, as defined by this subsection, shall be granted a preference in the amount of five percent (5%) of any bid. If the Tier 1 business submits a second bid that is at least one percent (1%) lower than that lowest responsive bid, then the award will go to the Tier 1 business. If not, the award will be made to the business that submits the lowest responsive bid. If the lowest responsive and responsible Bidder is also a Tier 1 business, the award will be made to that business, and no other Bidders will be given an opportunity to submit additional bids as described herein.

2. For bid evaluation purposes, Tier 2 businesses, as defined by this subsection, shall be granted a preference in the amount of two and one-half percent (2-1/2 %) of any bid or any proposal score. If the Tier 2 business submits a second bid, which is at least one percent lower than that lowest responsive bid, then the award will go to the Tier 2 business. If not, the award will be made to the business that submits the lowest responsive bid. If the lowest responsive and responsible Bidder is also a Tier 1 business, the award will be made to that business and no other Bidders will be given an opportunity to submit additional bids as described herein.

3. If there is a Tier 1 business and/or Tier 2 business participating in the same ITB and all businesses qualify to submit a second bid as previously detailed, the Tier 1 business will be given the first option, and the Tier 2 business will be given the second option. If the Tier 1 business is not the lowest bid received by at least one percent (1%), then an opportunity will be given to the Tier 2 business. If the Tier 2 business is not the lowest bid by at least one percent

(1%), then the bid will be awarded to the lowest Bidder regardless of the geographic location of the business.

4. The awarded Bidder/Contractor is responsible for complying with all Tier 1 & 2 guidelines and ensuring that all requirements are met before executing a Contract.

The goal for this ITB is ten percent (10%) for Local Vendor participation.

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SECTION 7 - BIDDER ACKNOWLEDGEMENT

7.1 The Bidder submits and agrees, if its bid is accepted, to enter into a Contract with the City in the form included in the ITB to perform and furnish all work as specified or indicated in the Sample Contract Documents for the Contract Price and within the Contract Time indicated in this bid and in accordance with the other terms and conditions of the Sample Contract resulting from the ITB.

7.2 Bidder accepts all of the terms and conditions of the ITB Documents, including, without limitation, those dealing with the disposition of Bid Security and the Sample Contract. The bid will remain subject to acceptance for one hundred twenty (120) days after the Bid unsealing. Bidder will sign and submit the Contract with the bonds and other documents required by Bidding Requirements within ten (10) days after the City's Notice of Award date.

7.3 In submitting its bid, Bidder represents, as more fully set forth in the Contract, that:

a. Bidder has examined copies of all the ITB documents and the addendum/addenda.

b. Bidder has familiarized itself with the nature and extent of the ITB Documents, work, site, locality, and all local conditions, laws, and regulations that may affect the cost, progress, performance, or furnishing of the work in any manner.

c. Bidder has studied carefully all reports and drawings of physical conditions that are identified in the ITB.

d. Bidder has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests, and studies [in addition to or to supplement those referred to in (c) above], which pertain to the subsurface or physical conditions at the site or otherwise may affect the cost, progress, performance or furnishing of the work as Bidder considers necessary for the performance or furnishing of the work at the Contract Price within the Contract Time and in accordance with the other terms and conditions of the ITB Documents, and no additional examinations, investigations, explorations, tests, reports or similar information or data are or will be required by Bidder for such purposes.

e. Bidder has reviewed and checked all information and data shown or indicated on the ITB Documents with respect to existing site conditions and assumes responsibility for such. No additional examinations, investigations, explorations, tests, reports or similar information or data in respect of said site area or will be required by Bidder in order to perform and furnish the work at work Contract Price, within the Contract Time and in accordance with other terms and conditions of the ITB Documents.

f. Bidder has correlated the results of all such observations, examinations, investigations, explorations, tests, reports and studies with the terms and conditions of the ITB Documents.

g. Bidder has given City written notice of all conflicts, errors or discrepancies that it has discovered in the ITB Documents and the written resolution thereof by the City is acceptable to Bidder.

h. This bid is genuine and not made in the interest or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit

a false or sham bid; Bidder has not solicited or induced any person, firm or corporation to refrain from Bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the City.

7.4 **Bidder agrees that the construction of the Project will be substantially complete by September 30th, 2026.**

7.5 Bidder accepts the provisions of the Contract as per the liquidated damages in the event of failure to complete the work on time.

7.6 Bidder agrees that all Federal, State, and Local sales and use taxes are included in the stated Bid Prices for the work.

7.7 Bidder further proposes to accept as full payment for the work proposed herein the amounts computed under the provisions of the Contract Documents and based on the unit prices herein (if applicable) represent a true measure of the labor, materials, equipment and any other incidentals required to perform the work, including all allowances for overhead and profit for each type and unit of work called for in these Contract Documents.

7.8 The Bid Line-Item pricing includes, but is not limited to, the following elements: labor, materials, equipment, permits and fees, excavation and backfill, grading and site preparation, restoration and final surface, removal and disposal, and final cleanup. Bidders shall include all costs associated with these elements within each line item and shall not omit any component necessary for the complete and proper execution of the work.

7.9 At the preconstruction conference, the Bidder shall submit a complete, detailed schedule of shop drawing submittals, which will show lead time for the following:

- Date of planned submittal.
- Date of anticipated receipt of review (usually three weeks after submittal).
- Delivery lead time.
- Anticipated installation date.

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SECTION 8 – INSURANCE

The insurance described herein reflects the requirements deemed necessary for this contract by the City. The contractor is responsible for delivering to the City for timely review and written approval/disapproval Certificates of Insurance, which evidence that all insurance required hereunder is in full force and effect and which name the city as an additional insured on a primary basis on all such coverage.

CONTRACTOR shall not commence services under the terms of this Agreement until certification or proof of insurance detailing terms and provisions have been received and approved in writing by the City's Risk Manager. If you are responding to a bid and have questions regarding the insurance requirements hereunder, please contact the City's Purchasing Department at (954) 786-4098. If the contract has already been awarded, please direct any queries and proof of the requisite insurance coverage to the City staff responsible for oversight of the subject project/contract.

CONTRACTOR is responsible for delivering to the CITY for timely review and written approval/disapproval Certificates of Insurance, which evidence that all insurance required hereunder is in full force and effect and which name on a primary basis, the CITY as an additional insured on all such coverage. Such policy or policies shall be issued by United States Treasury-approved companies authorized to do business in the State of Florida. The policies shall be written on forms acceptable to the City's Risk Manager, meet a minimum financial A.M. Best and Company rating of no less than Excellent, and be part of the Florida Insurance Guarantee Association Act. No changes are to be made to these specifications without prior written approval of the City's Risk Manager.

Throughout the term of the agreement/contract, the City, by and through its Risk Manager, reserves the right to review, modify, reject, or accept any insurance policies required by the agreement/contract, including limits, coverages, or endorsements. The City reserves the right, but not the obligation, to review and reject any insurer providing coverage because of poor financial condition or failure to operate legally.

Failure to maintain the required insurance shall be considered an event of default. The requirements herein, as well as the City's review or acceptance of insurance maintained by the Contractor, are not intended to and shall not in any way limit or qualify the liabilities and obligations assumed by the Contractor under the agreement/contract. Throughout the agreement/contract term, the Contractor and all subcontractors or other agents hereunder shall, at its sole expense, maintain in full force and effect the following insurance coverages and limits described herein, including endorsements.

A. Worker's Compensation Insurance covering all employees and providing benefits as required by Florida Statute, Chapter 440, regardless of the size of the company/firm (number of employees) or the state in which the work is to be performed or of the state in which Contractor is obligated to pay compensation to employees engaged in the performance of the work. No exemption will be considered. The contractor further agrees to be responsible for the employment, control, and conduct of its employees and any injury sustained by such employees during their employment.

B. Liability Insurance

    1. Naming the City of Pompano Beach as an additional insured as the City's interests may appear, on General Liability Insurance only, relative to claims arising from

the Contractor's negligent acts or omissions in connection with the Contractor's performance under this agreement/contract.

2. Such liability insurance shall include the following checked types of insurance and indicated minimum policy limits:

TYPE OF INSURANCE LIMITS OF LIABILITY

GENERAL LIABILITY:
Minimum $1,000,000 Per Occurrence and $2,000,000 Per Aggregate
* Policy to be written on a Claims incurred basis
XX comprehensive form bodily injury and property damage
XX premises - operations bodily injury and property damage
XX explosion & collapse
XX hazard
XX underground hazard
XX products/completed bodily injury and property damage combined
XX operations hazard
XX contractual insurance, bodily injury, and property damage combined
XX broad form property damage, bodily injury, and property damage combined
XX independent contractor's personal injury
XX personal injury
___ sexual abuse/molestation
___ liquor legal liability

AUTOMOBILE LIABILITY:
Minimum $1,000,000 Per Occurrence and $1,000,000 Per aggregate
XX comprehensive form
XX owned
XX hired
XX non-owned

Please note that Florida Statutes Section 255.05 requires contractors who enter into a contract with the City to purchase a payment and performance bond when the contract is in excess of $200,000.

REAL & PERSONAL PROPERTY:
___ Comprehensive form
The agent must show proof they have this coverage.

EXCESS LIABILITY:

Minimum $5,000,000 Per Occurrence and $5,000,000 Per Aggregate
XXother than umbrella bodily injury and property damage combined
---

ENVIRONMENTAL / POLLUTION LIABILITY: Minimum $1,000,000 Per Occurrence and $1,000,000 Per Aggregate
* Policy to be written on a Claims incurred basis
XX environmental/pollution liability

CONTRACTOR is required to provide Environmental/Pollution Liability for damage(s) caused by hazardous waste material.

PROFESSIONAL LIABILITY:
Minimum $1,000,000 Per Occurrence and $1,000,000 Per Aggregate
* Policy to be written on a Claims incurred basis
__ professional liability

CONTRACTOR is required to provide Professional Liability if engineering and design are used.

CYBER LIABILITY:
Minimum $1,000,000 Per Occurrence and $1,000,000 Per Aggregate
* Policy to be written on a Claims incurred basis
___ Network Security / Privacy Liability
___ Breach Response / Notification Sublimit (minimum limit of 50% of policy aggregate)
___ Technology Products E&O - $1,000,000 (only applicable for vendors supplying technology-related services and or products)
Coverage shall be maintained in effect during the period of the Agreement and for not less than four (4) years after termination/ completion of the Agreement.

CRIME LIABILITY:

Minimum $1,000,000 Per Occurrence and $1,000,000 Per Aggregate
* Policy to be written on a Claims incurred basis

---

3. If Professional Liability insurance is required, the Contractor agrees that the indemnification and hold harmless provisions of the agreement/contract shall survive the termination or expiration of the agreement/contract for a period of three (3) years unless terminated sooner by the applicable statute of limitations.

C. **Employer's Liability:** The contractor and all subcontractors shall, for the benefit of its employees, provide, carry, maintain, and pay for the Employer's Liability Insurance in the minimum amount of One Hundred Thousand Dollars ($100,000.00) per employee and Five Hundred Thousand Dollars ($500,000) per aggregate.

D. **Policies**: Whenever, under the provisions of the agreement/contract, insurance is required of the Contractor, the Contractor shall promptly provide the following:
   i. Certificates of Insurance evidencing the required coverage;
   ii. Names and addresses of companies providing coverage

iii. Effective and expiration dates of policies; and
iv. A provision in all policies affording City thirty (30) days written notice by a Carrier of any cancellation or material change in any policy.

E. **Insurance Cancellation or Modification**: Should any required insurance policies be canceled before the expiration date or modified or substantially modified, the issuing company/firm shall provide thirty (30) days' written notice to the City.

F. **Waiver of Subrogation:** The contractor hereby waives any and all rights of subrogation against the City, its officers, employees, and agents for each required policy. When required by the insurer, or should a policy condition not permit an insured to enter into a pre-loss agreement/contract to waive subrogation without an endorsement, then the contractor shall notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy that includes a condition to the policy not specifically prohibiting such an endorsement or voids coverage should the Contractor enter into such agreement/contract on a pre-loss basis.

G. The Contractor shall furnish to the City the certification or proof of insurance required by the provisions set forth above within ten (10) days after notification of the award of the agreement/contract. Certificate(s) to be issued to City of Pompano Beach, Attention Risk Manager, 100 West Atlantic Boulevard, Pompano Beach, Florida, 33060.

H. Builder's Risk insurance is required.

THE REMAINDER OF THIS PAGE IS LEFT BLANK INTENTIONALLY

SECTION 9 – ITB ATTRIBUTES (this is a TAB in the eBid system, IonWave). PROVIDE THIS INFORMATION ELECTRONICALLY.

This TAB includes the following Attributes:

- Substantial Project Completion
- Final Project Completion
- Total Project Completion
- Drug-Free Workplace
- Conflict of Interest
- Terms & Conditions
- Acknowledgement of Addenda
- Vendor Certification Regarding Scrutinized Companies Lists

THE REMAINDER OF THIS PAGE IS LEFT BLANK INTENTIONALLY

<u>SECTION 10</u> – EXHIBITS & ATTACHMENTS (attachment TAB in the eBid system, IonWave)

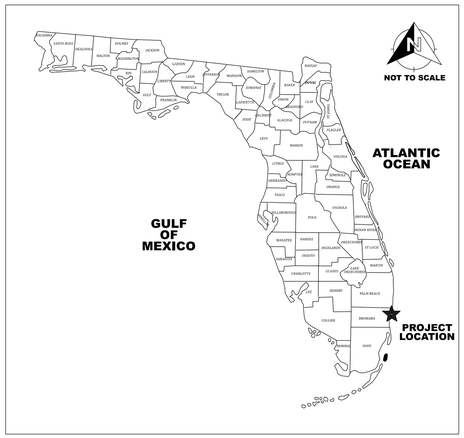
- BID SET Hillsboro Fishing Center
- BID SET Roy Rogers Park
- Marina & Park Seawall Supplementary Conditions
- ATTACHMENT A - Local Business
- ATTACHMENT B - Local Business
- ATTACHMENT C - Local Business
- ATTACHMENT D - Local Business
- ATTACHMENT G - Construction Agreement (draft) and General Conditions
- ATTACHMENT - W-9 (https://www.irs.gov/pub/irs-pdf/fw9.pdf)
- ATTACHMENT - Bid Security Bond Form
- ATTACHMENT – Qualification of Bidders

END OF THE INVITATION TO BID

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

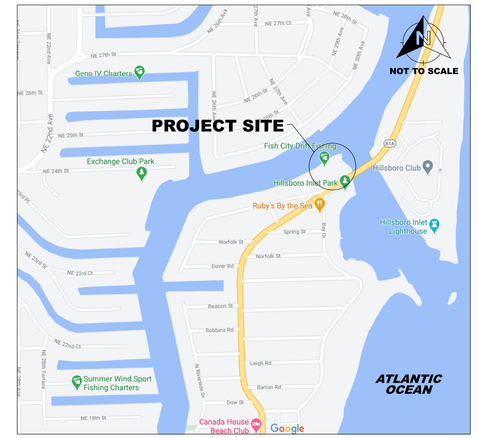
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA
JUNE 2025



LOCATION MAP OF FLORIDA

AERIAL PHOTOGRAPH



VICINITY MAP

PREPARED BY:

SEA DIVERSIFIED

SEA DIVERSIFIED, INC.
160 CONGRESS PARK DRIVE, #114
DELRAY BEACH, FLORIDA 33445
PH 561-243-4920

PREPARED FOR:

pompano beach
Florida's Warmest Welcome

CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

REX HARDIN	MAYOR AT LARGE
ALISON FOURNIER	VICE MAYOR, DISTRICT 3
AUDREY FESIK	COMMISSIONER, DISTRICT 1
RHONDA SIGERSON-EATON	COMMISSIONER, DISTRICT 2
BEVERLY PERKINS	COMMISSIONER, DISTRICT 4
DARLENE SMITH	COMMISSIONER, DISTRICT 5

SHEET INDEX

NO.	SHEET	SHEET TITLE
1	C-1	COVER SHEET
2	A-1	AERIAL
3	B-1	BATHYMETRY
4	EX-1	EXISTING CONDITIONS
5	D-1	DEMOLITION PLAN - EXISTING TREE MITIGATION
6	D-2	DEMOLITION PHOTO EXHIBITS
7	P-1	SITE PLAN
8	P-2	PLAN DETAIL - EAST
9	P-3	PLAN DETAIL - WEST
10	BH-1	BULKHEAD PLAN DETAILS - EAST
11	BH-2	BULKHEAD PLAN DETAILS - WEST
12	S-1	TYPICAL DOCK DETAILS
13	S-2	TYPICAL BULKHEAD DETAILS
14	S-3	TYPICAL SECTION DETAILS
15	UP-1	UPLAND SITE PLAN
16	UP-2	UPLAND PLAN DETAIL - EAST
17	UP-3	UPLAND PLAN DETAIL - WEST
18	UP-4	GRADING PLAN
19	U-1	LANDSCAPE PLAN
20	L-1	POTABLE WATER & FIRE PROTECTION
21	M-1	STANDARD DETAILS
22	M-2	STANDARD CITY DETAILS
23	M-3	STANDARD CITY DETAILS
24	G-1	GEOTECHNICAL
25	N-1	NOTES & SPECIFICATIONS
26	N-2	NOTES & SPECIFICATIONS
27-30	E-1 - E-4	ELECTRICAL - LIGHTING DETAILS

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: COVER

PREPARED FOR: pompano beach Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR., P.E.
FLORIDA REGISTRATION NUMBER 41184
FOR THE FIRM: SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 29937

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	N.T.S.
SHEET:	C-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

Exhibit "A"

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
AERIAL

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41164
FOR THE FIRM SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 25937

PREPARED BY:

SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

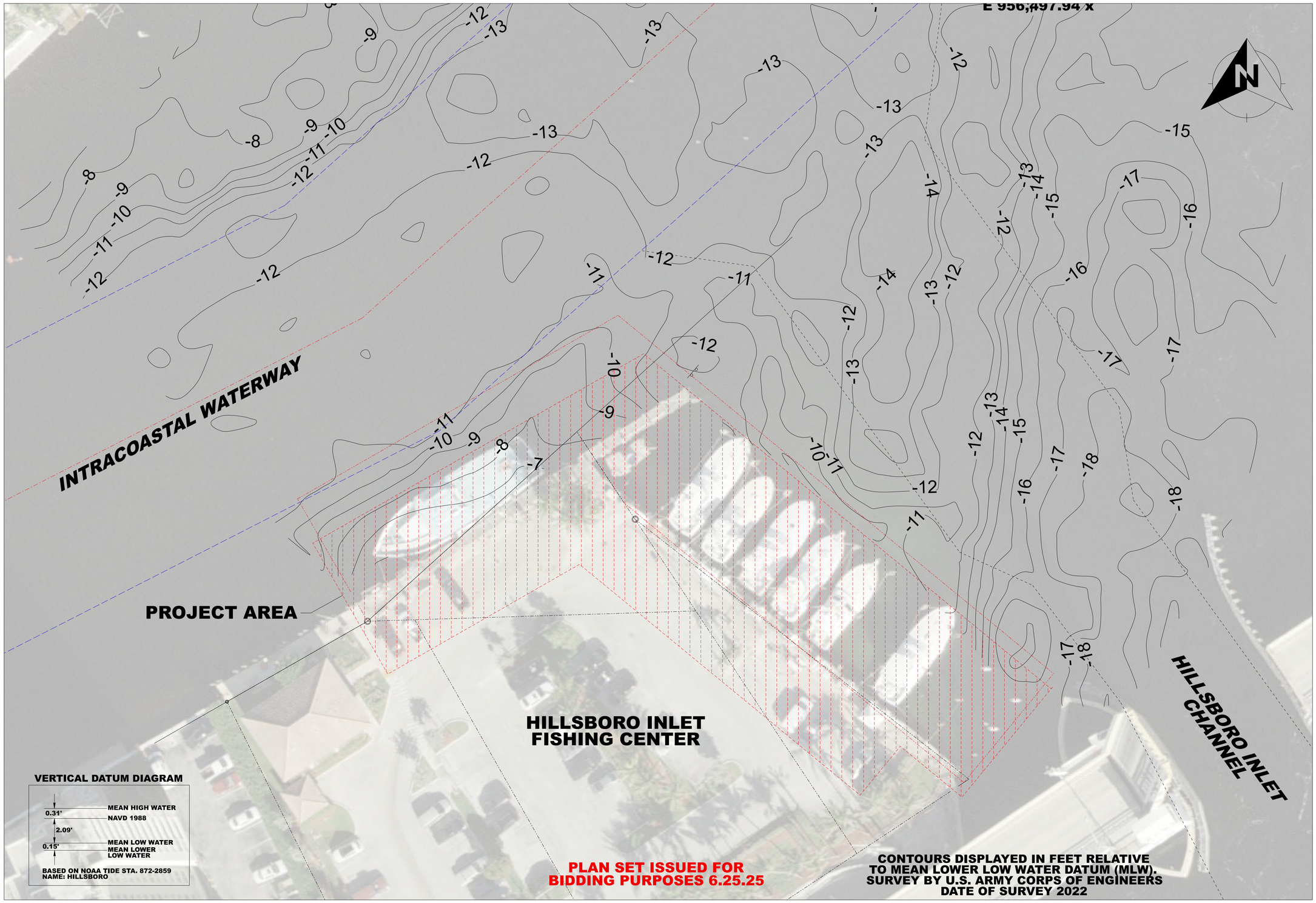
SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=100'
SHEET:	

A-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990



SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
BATHYMETRY

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41184
EXPIRES ON FEBRUARY 28, 2027
C.A. LICENSE NUMBER 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

SEA DIVERSIFIED

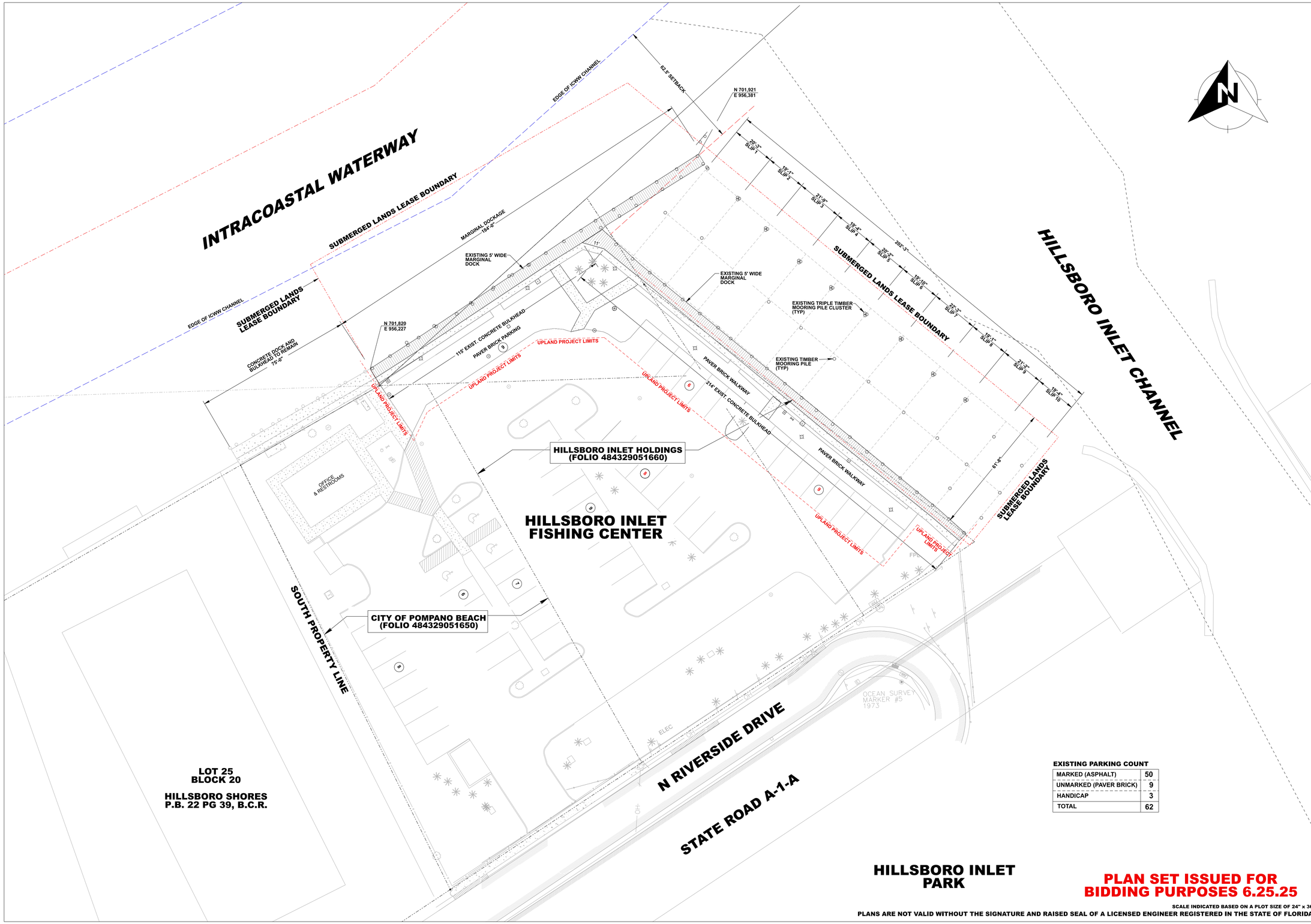
DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'-0"
SHEET:	

B-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

Exhibit "A"



EXISTING PARKING COUNT

MARKED (ASPHALT)	50
UNMARKED (PAVER BRICK)	9
HANDICAP	3
TOTAL	62

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
EXISTING CONDITIONS

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41164
FOR THE FIRM SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 29937

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

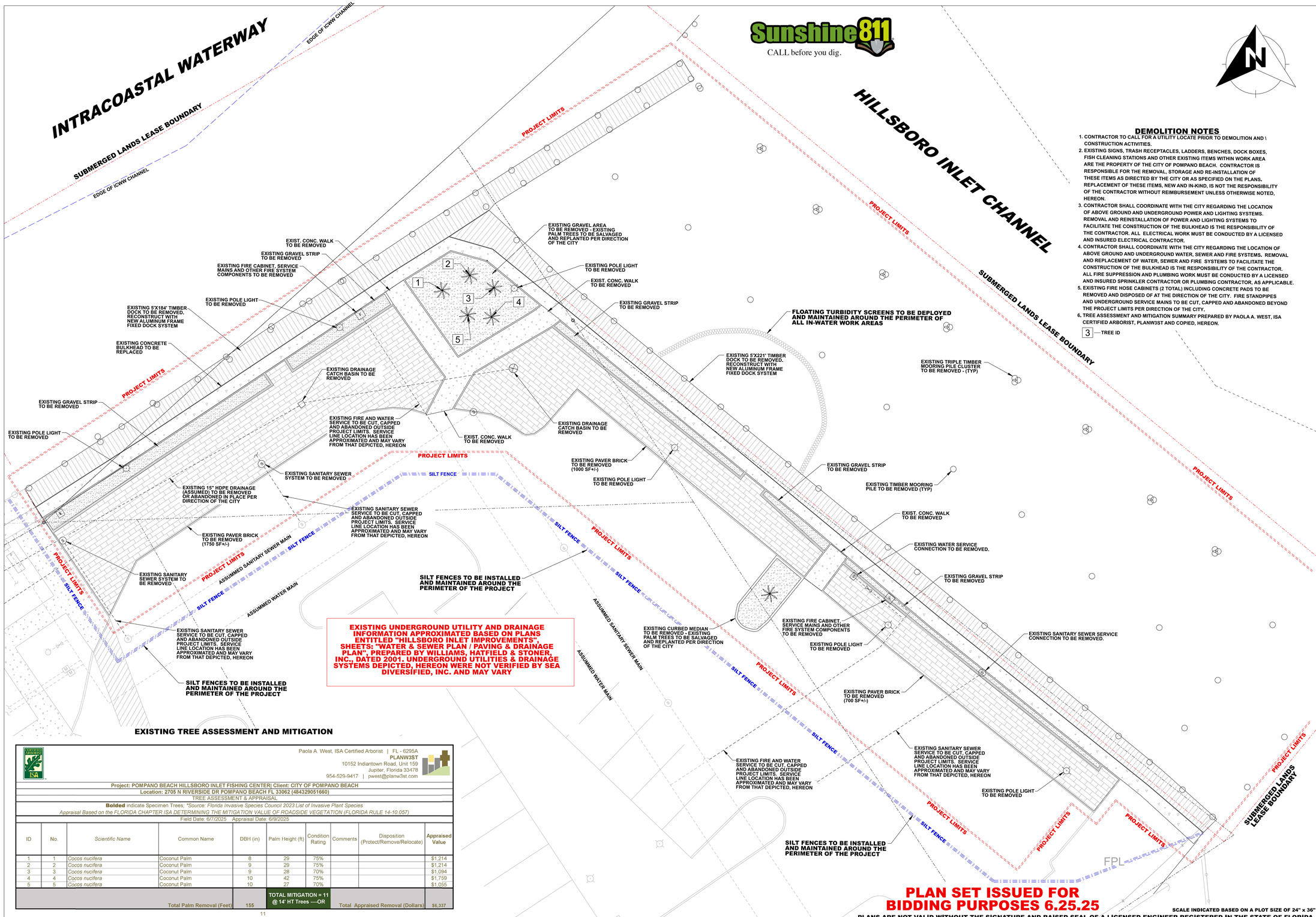
SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'-0"
SHEET:	

EX-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990



Sunshine811
CALL before you dig.

DEMOLITION NOTES

1. CONTRACTOR TO CALL FOR A UTILITY LOCATE PRIOR TO DEMOLITION AND \ CONSTRUCTION ACTIVITIES.
2. EXISTING SIGNS, TRASH RECEPTACLES, LADDERS, BENCHES, DOCK BOXES, FISH CLEANING STATIONS AND OTHER EXISTING ITEMS WITHIN WORK AREA ARE THE PROPERTY OF THE CITY OF POMPANO BEACH. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL, STORAGE AND RE-INSTALLATION OF THESE ITEMS AS DIRECTED BY THE CITY OR AS SPECIFIED ON THE PLANS. REPLACEMENT OF THESE ITEMS, NEW AND IN-KIND, IS NOT THE RESPONSIBILITY OF THE CONTRACTOR WITHOUT REIMBURSEMENT UNLESS OTHERWISE NOTED, HEREON.
3. CONTRACTOR SHALL COORDINATE WITH THE CITY REGARDING THE LOCATION OF ABOVE GROUND AND UNDERGROUND POWER AND LIGHTING SYSTEMS. REMOVAL AND REINSTALLATION OF POWER AND LIGHTING SYSTEMS TO FACILITATE THE CONSTRUCTION OF THE BULKHEAD IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL ELECTRICAL WORK MUST BE CONDUCTED BY A LICENSED AND INSURED ELECTRICAL CONTRACTOR.
4. CONTRACTOR SHALL COORDINATE WITH THE CITY REGARDING THE LOCATION OF ABOVE GROUND AND UNDERGROUND WATER, SEWER AND FIRE SYSTEMS. REMOVAL AND REPLACEMENT OF WATER, SEWER AND FIRE SYSTEMS TO FACILITATE THE CONSTRUCTION OF THE BULKHEAD IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL FIRE SUPPRESSION AND PLUMBING WORK MUST BE CONDUCTED BY A LICENSED AND INSURED SPRINKLER CONTRACTOR OR PLUMBING CONTRACTOR, AS APPLICABLE.
5. EXISTING FIRE HOSE CABINETS (2 TOTAL) INCLUDING CONCRETE PADS TO BE REMOVED AND DISPOSED OF AT THE DIRECTION OF THE CITY. FIRE STANDPIPES AND UNDERGROUND SERVICE MAINS TO BE CUT, CAPPED AND ABANDONED BEYOND THE PROJECT LIMITS PER DIRECTION OF THE CITY.
6. TREE ASSESSMENT AND MITIGATION SUMMARY PREPARED BY PAOLA A. WEST, ISA CERTIFIED ARBORIST, PLANW3ST AND COPIED, HEREON.

3 — TREE ID

EXISTING TREE ASSESSMENT AND MITIGATION

Paola A. West, ISA Certified Arborist | FL - 6295A
PLANW3ST
10152 Indiantown Road, Unit 159
Jupiter, Florida 33478
954-529-9417 | pwest@planw3st.com

Project: POMPANO BEACH HILLSBORO INLET FISHING CENTER| Client: CITY OF POMPANO BEACH
Location: 2705 N RIVERSIDE DR POMPANO BEACH FL 33062 (484329051660)
TREE ASSESSMENT & APPRAISAL

Bolded indicate Specimen Trees; **Source: Florida Invasive Species Council 2023 List of Invasive Plant Species*
Appraisal Based on the FLORIDA CHAPTER ISA DETERMINING THE MITIGATION VALUE OF ROADSIDE VEGETATION (FLORIDA RULE 14-10.057)

Field Date: 6/7/2025 Appraisal Date: 6/9/2025

ID	No.	*Scientific Name*	Common Name	DBH (in)	Palm Height (ft)	Condition Rating	Comments	Disposition (Protect/Remove/Relocate)	Appraised Value
1	1	*Cocos nucifera*	Coconut Palm	8	29	75%			$1,214
2	2	*Cocos nucifera*	Coconut Palm	9	29	75%			$1,214
3	3	*Cocos nucifera*	Coconut Palm	9	28	70%			$1,094
4	4	*Cocos nucifera*	Coconut Palm	10	42	75%			$1,759
5	5	*Cocos nucifera*	Coconut Palm	10	27	70%			$1,055
				Total Palm Removal (Feet)	155	TOTAL MITIGATION = 11 @ 14' HT Trees ----OR		Total Appraised Removal (Dollars)	$6,337

11

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: DEMOLITION PLAN EXISTING TREE MITIGATION

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. GADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41164
SEA DIVERSIFIED, INC. (FORMERLY GMS), INC.
C.A. LICENSE NUMBER 29937

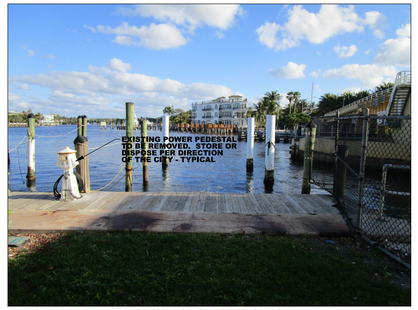
PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Cypress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	D-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

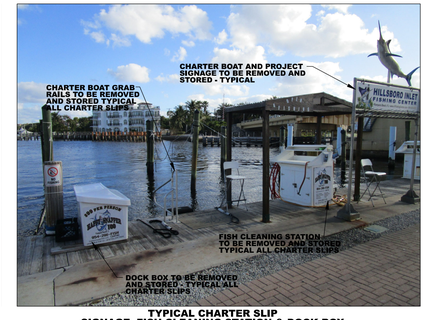
NORTHEAST PROJECT LIMITS
VIEW EAST



NORTHEAST CHARTER SLIPS
VIEW NORTH

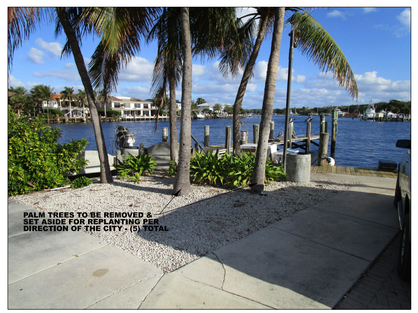
NORTH MARGINAL DOCK & PROMENADE
VIEW WEST

NORTH FIRE CABINET TO BE REMOVED



TYPICAL CHARTER SLIP
SIGNAGE, FISH CLEANING STATION & DOCK BOX

NORTHWEST TIMBER PIER
VIEW NORTH



NORTHWEST LANDSCAPE AREA
VIEW NORTH

WEST MARGINAL DOCK ALONG ICWW
VIEW SOUTH

WEST MARGINAL DOCK ALONG ICWW
VIEW NORTH

WEST FIRE CABINET TO BE REMOVED

SOUTHWEST PROJECT LIMITS
VIEW SOUTH

SOUTHWEST PROJECT LIMITS
VIEW WEST

SOUTHWEST PROJECT LIMITS
VIEW EAST

MARINA OFFICE TO REMAIN

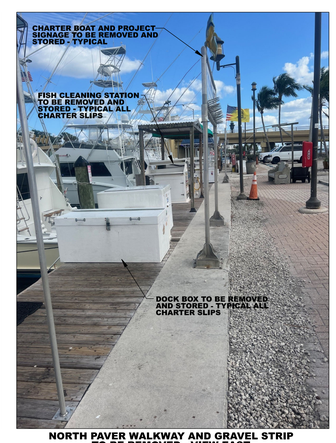
ASPHALT ROADWAY TO REMAIN

WEST MARGINAL DOCK AND BULKHEAD
VIEW NORTH

PAVER BRICK PARKING TO BE REMOVED
VIEW NORTH

SOUTHWEST CONCRETE DOCK AND BULKHEAD
TO REMAIN - VIEW SOUTH

NORTHWEST BULKHEAD AND DOCK TERMINUS
VIEW NORTH



NORTH PAVER WALKWAY AND GRAVEL STRIP
TO BE REMOVED - VIEW EAST

FACILITY SIGNAGE

PLAN SET ISSUED FOR PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER
BULKHEAD & MARGINAL DOCK
RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
DEMOLITION PHOTO
EXHIBITS

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 NE 3RD AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41184
SEA DIVERSIFIED, LLC. FORMERLY, INC.
C.A. LICENSE NUMBER 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering
Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

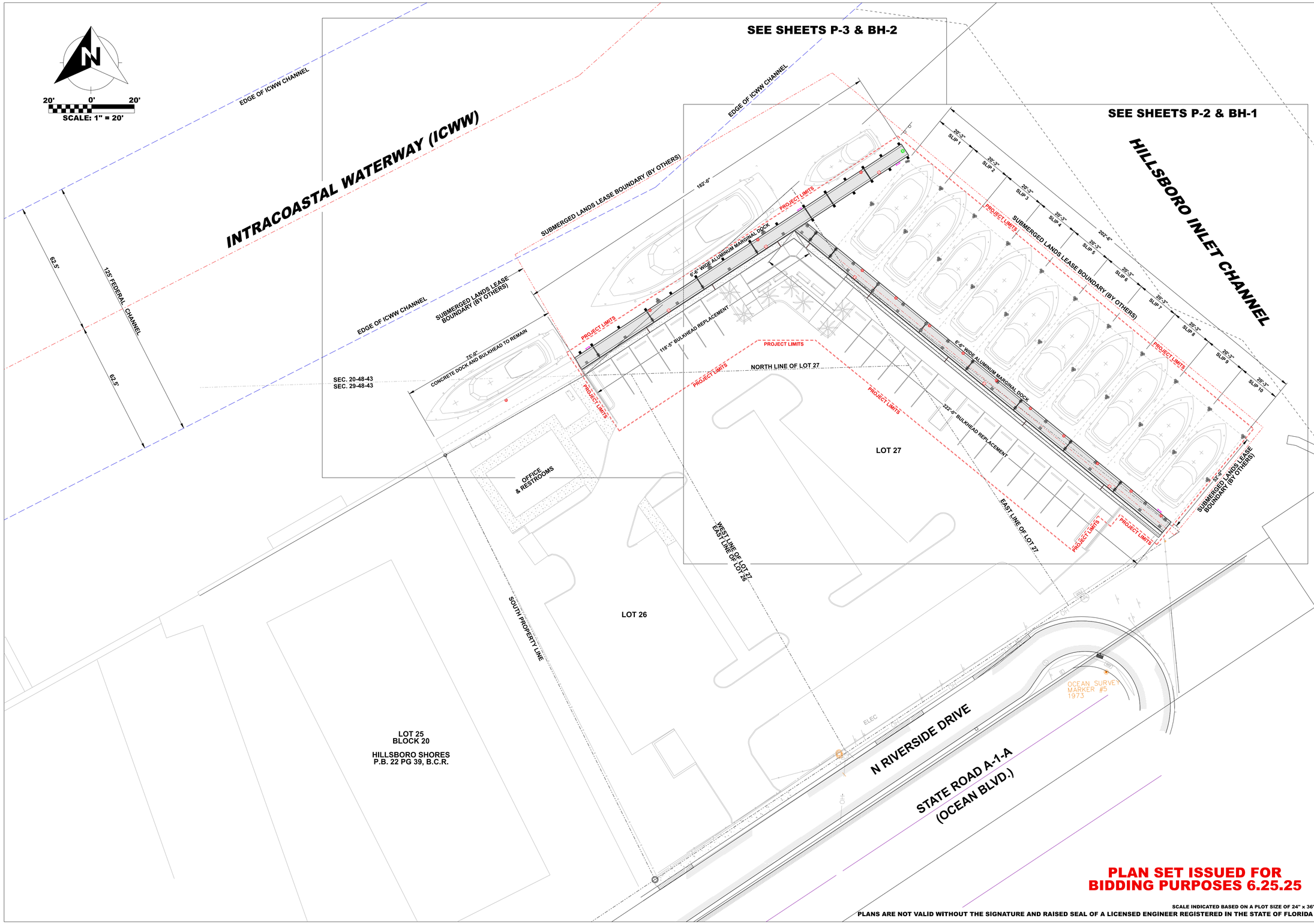
DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	N.T.S.
SHEET:	

D-2

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

Exhibit "A"



PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION

CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **SITE PLAN**

PREPARED FOR: pompano beach. Florida's Warmest Welcome

CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:

WILLIAM T. SADLER JR., P.E.
FLORIDA REGISTRATION NUMBER 41184
FOR THE FIRM OF SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 29937

PREPARED BY: SEA DIVERSIFIED, INC.
Surveying & Engineering Applications

160 Cypress Park Drive, Suite 114
Delray Beach, Florida 33445

TEL: (561) 243-4920

WWW.SEADIVERSIFIED.COM

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'-0"
SHEET:	

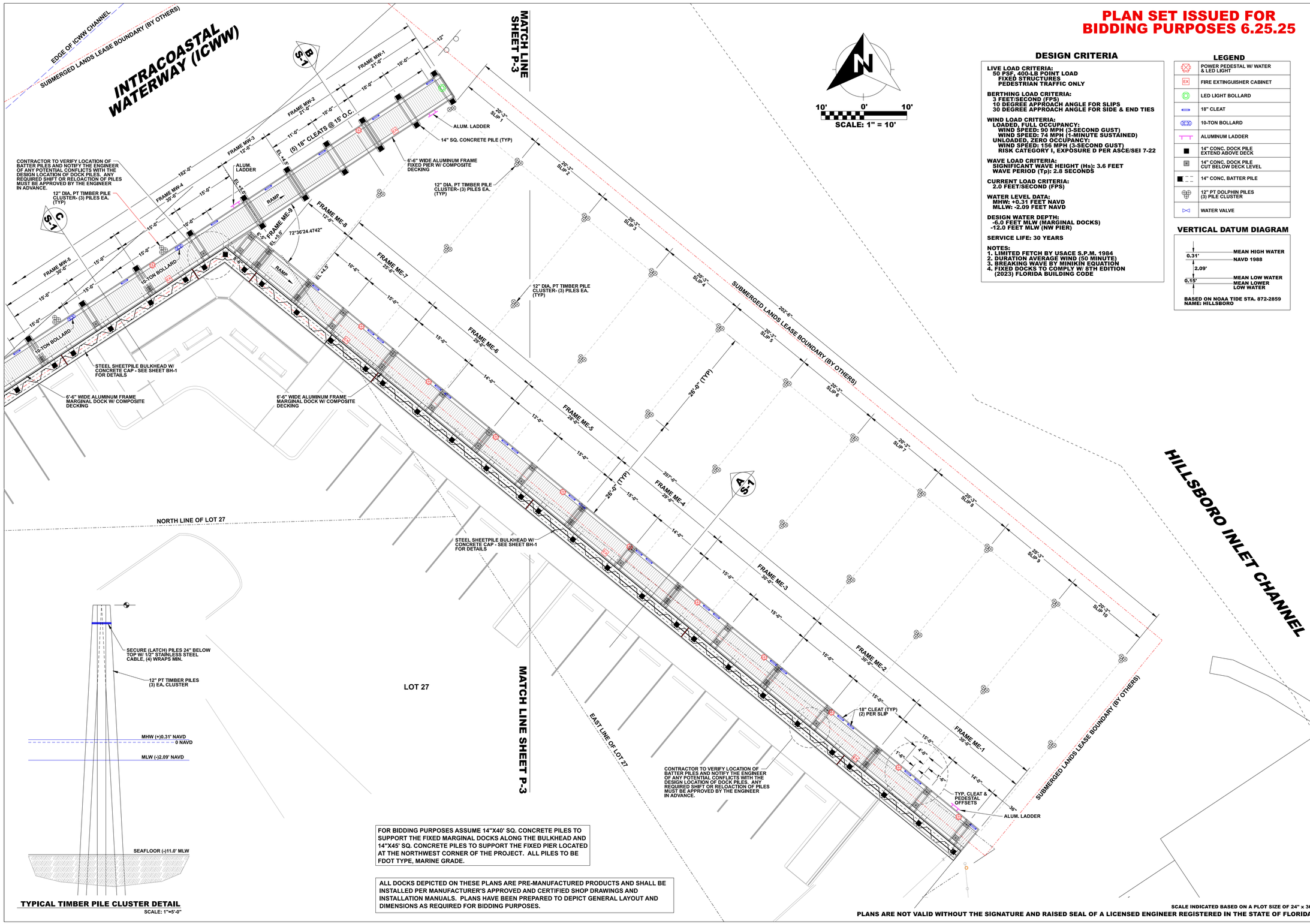
P-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

22-2990.sh.8.P-1.Plan.6.25.25.dgn 7/17/2025 3:28:14 PM SEA DIVERSIFIED INC.

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25



DESIGN CRITERIA

LIVE LOAD CRITERIA:
50 PSF, 400-LB POINT LOAD
FIXED STRUCTURES
PEDESTRIAN TRAFFIC ONLY

BERTHING LOAD CRITERIA:
3 FEET/SECOND (FPS)
10 DEGREE APPROACH ANGLE FOR SLIPS
30 DEGREE APPROACH ANGLE FOR SIDE & END TIES

WIND LOAD CRITERIA:
LOADED, FULL OCCUPANCY:
WIND SPEED: 90 MPH (3-SECOND GUST)
WIND SPEED: 74 MPH (1-MINUTE SUSTAINED)
UNLOADED, ZERO OCCUPANCY:
WIND SPEED: 156 MPH (3-SECOND GUST)
RISK CATEGORY I, EXPOSURE D PER ASCE/SEI 7-22

WAVE LOAD CRITERIA:
SIGNIFICANT WAVE HEIGHT (Hs): 3.6 FEET
WAVE PERIOD (Tp): 2.8 SECONDS

CURRENT LOAD CRITERIA:
2.0 FEET/SECOND (FPS)

WATER LEVEL DATA:
MHW: +0.31 FEET NAVD
MLLW: -2.09 FEET NAVD

DESIGN WATER DEPTH:
-5.0 FEET MLW (MARGINAL DOCKS)
-12.0 FEET MLW (NW PIER)

SERVICE LIFE: 30 YEARS

NOTES:
1. LIMITED FETCH BY USACE S.P.M. 1984
2. DURATION AVERAGE WIND (50 MINUTE)
3. BREAKING WAVE BY MINIKIN EQUATION
4. FIXED DOCKS TO COMPLY W/ 6TH EDITION (2023) FLORIDA BUILDING CODE

LEGEND

	POWER PEDESTAL W/ WATER & LED LIGHT
EX	FIRE EXTINGUISHER CABINET
	LED LIGHT BOLLARD
	18" CLEAT
	10-TON BOLLARD
	ALUMINUM LADDER
	14" CONC. DOCK PILE EXTEND ABOVE DECK
	14" CONC. DOCK PILE CUT BELOW DECK LEVEL
	14" CONC. BATTER PILE
	12" PT DOLPHIN PILES (3) PILE CLUSTER
	WATER VALVE

VERTICAL DATUM DIAGRAM

	MEAN HIGH WATER
0.31'	NAVD 1988
2.09'	
0.15'	MEAN LOW WATER
	MEAN LOWER LOW WATER

BASED ON NOAA TIDE STA. 872-2859 NAME: HILLSBORO

FOR BIDDING PURPOSES ASSUME 14"X40' SQ. CONCRETE PILES TO SUPPORT THE FIXED MARGINAL DOCKS ALONG THE BULKHEAD AND 14"X45' SQ. CONCRETE PILES TO SUPPORT THE FIXED PIER LOCATED AT THE NORTHWEST CORNER OF THE PROJECT. ALL PILES TO BE FDOT TYPE, MARINE GRADE.

ALL DOCKS DEPICTED ON THESE PLANS ARE PRE-MANUFACTURED PRODUCTS AND SHALL BE INSTALLED PER MANUFACTURER'S APPROVED AND CERTIFIED SHOP DRAWINGS AND INSTALLATION MANUALS. PLANS HAVE BEEN PREPARED TO DEPICT GENERAL LAYOUT AND DIMENSIONS AS REQUIRED FOR BIDDING PURPOSES.

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: DOCK PLAN DETAIL - EAST

PREPARED FOR: pompano beach Florida's Warmest Welcome
CITY OF POMPANO BEACH 1201 NE 5TH AVENUE POMPANO BEACH, FLORIDA 33060

CERTIFICATION: WILLIAM T. SADLER JR. P.E. FLORIDA REGISTRATION NUMBER 41184 FOR: SEA DIVERSIFIED, INC. C.A. LICENSE NUMBER 29937

PREPARED BY: SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114 Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

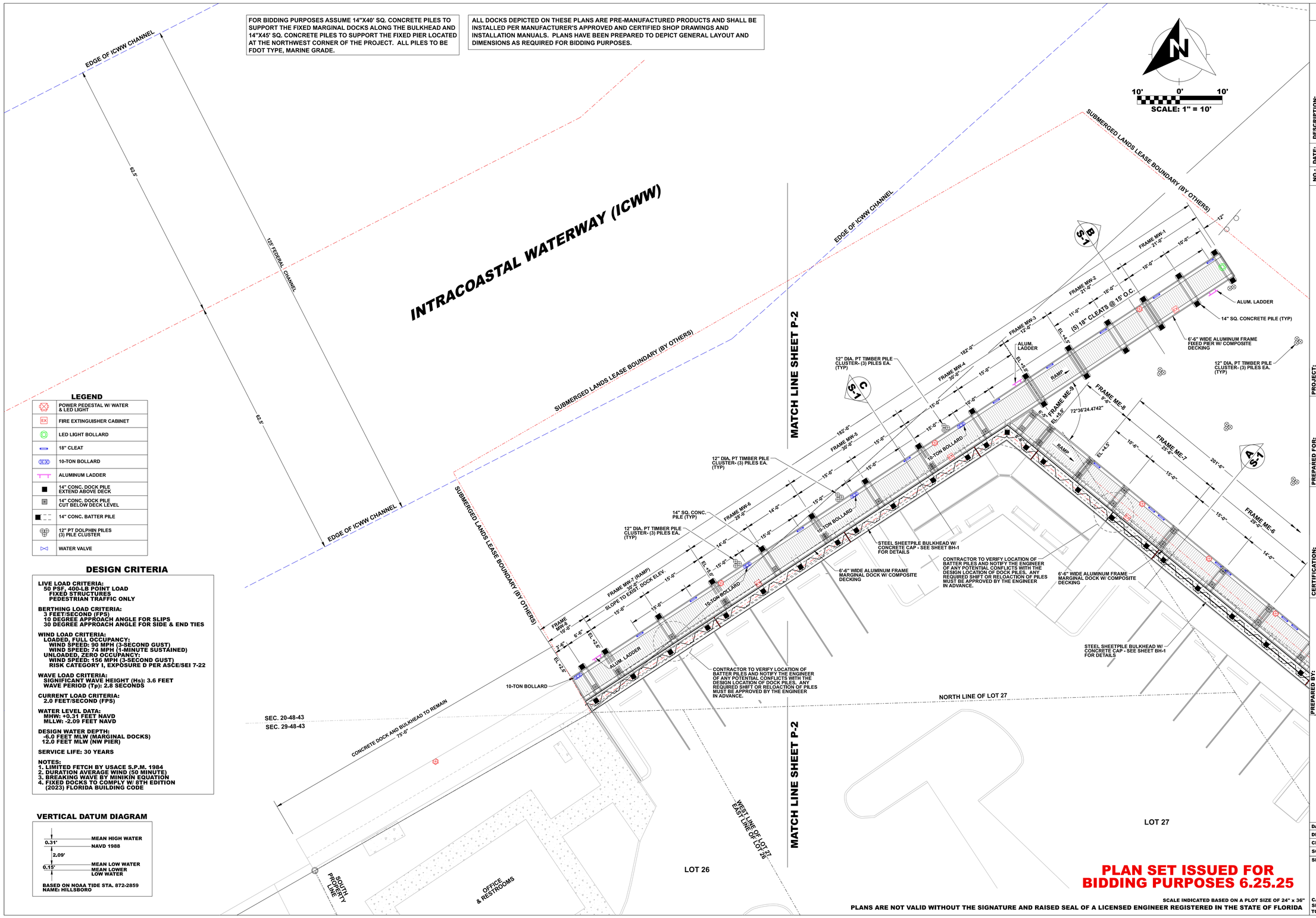
DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'-0"
SHEET:	P-2

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

FOR BIDDING PURPOSES ASSUME 14"X40' SQ. CONCRETE PILES TO SUPPORT THE FIXED MARGINAL DOCKS ALONG THE BULKHEAD AND 14"X45' SQ. CONCRETE PILES TO SUPPORT THE FIXED PIER LOCATED AT THE NORTHWEST CORNER OF THE PROJECT. ALL PILES TO BE FDOT TYPE, MARINE GRADE.

ALL DOCKS DEPICTED ON THESE PLANS ARE PRE-MANUFACTURED PRODUCTS AND SHALL BE INSTALLED PER MANUFACTURER'S APPROVED AND CERTIFIED SHOP DRAWINGS AND INSTALLATION MANUALS. PLANS HAVE BEEN PREPARED TO DEPICT GENERAL LAYOUT AND DIMENSIONS AS REQUIRED FOR BIDDING PURPOSES.



LEGEND

	POWER PEDESTAL W/ WATER & LED LIGHT
EX	FIRE EXTINGUISHER CABINET
	LED LIGHT BOLLARD
	18" CLEAT
	10-TON BOLLARD
	ALUMINUM LADDER
	14" CONC. DOCK PILE EXTEND ABOVE DECK
	14" CONC. DOCK PILE CUT BELOW DECK LEVEL
	14" CONC. BATTER PILE
	12" PT DOLPHIN PILES (3) PILE CLUSTER
	WATER VALVE

DESIGN CRITERIA

LIVE LOAD CRITERIA:
50 PSF, 400-LB POINT LOAD
FIXED STRUCTURES
PEDESTRIAN TRAFFIC ONLY

BERTHING LOAD CRITERIA:
3 FEET/SECOND (FPS)
10 DEGREE APPROACH ANGLE FOR SLIPS
30 DEGREE APPROACH ANGLE FOR SIDE & END TIES

WIND LOAD CRITERIA:
LOADED, FULL OCCUPANCY:
WIND SPEED: 90 MPH (3-SECOND GUST)
WIND SPEED: 74 MPH (1-MINUTE SUSTAINED)
UNLOADED, ZERO OCCUPANCY:
WIND SPEED: 156 MPH (3-SECOND GUST)
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SIGNIFICANT WAVE HEIGHT (Hs): 3.6 FEET
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-6.0 FEET MLW (MARGINAL DOCKS)
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SERVICE LIFE: 30 YEARS

NOTES:
1. LIMITED FETCH BY USACE S.P.M. 1984
2. DURATION AVERAGE WIND (50 MINUTE)
3. BREAKING WAVE BY MINIKIN EQUATION
4. FIXED DOCKS TO COMPLY W/ 8TH EDITION (2023) FLORIDA BUILDING CODE

VERTICAL DATUM DIAGRAM

	MEAN HIGH WATER
0.31'	NAVD 1988
2.09'	
0.15'	MEAN LOW WATER
	MEAN LOWER LOW WATER

BASED ON NOAA TIDE STA. 872-2859
NAME: HILLSBORO

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
DOCK PLAN DETAIL - WEST

PREPARED FOR:
pompano beach. Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41584
SEA DIVERSIFIED, LLC. / SDI TESTING, INC.
C.A. LICENSE NUMBER 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'-0"
SHEET:	

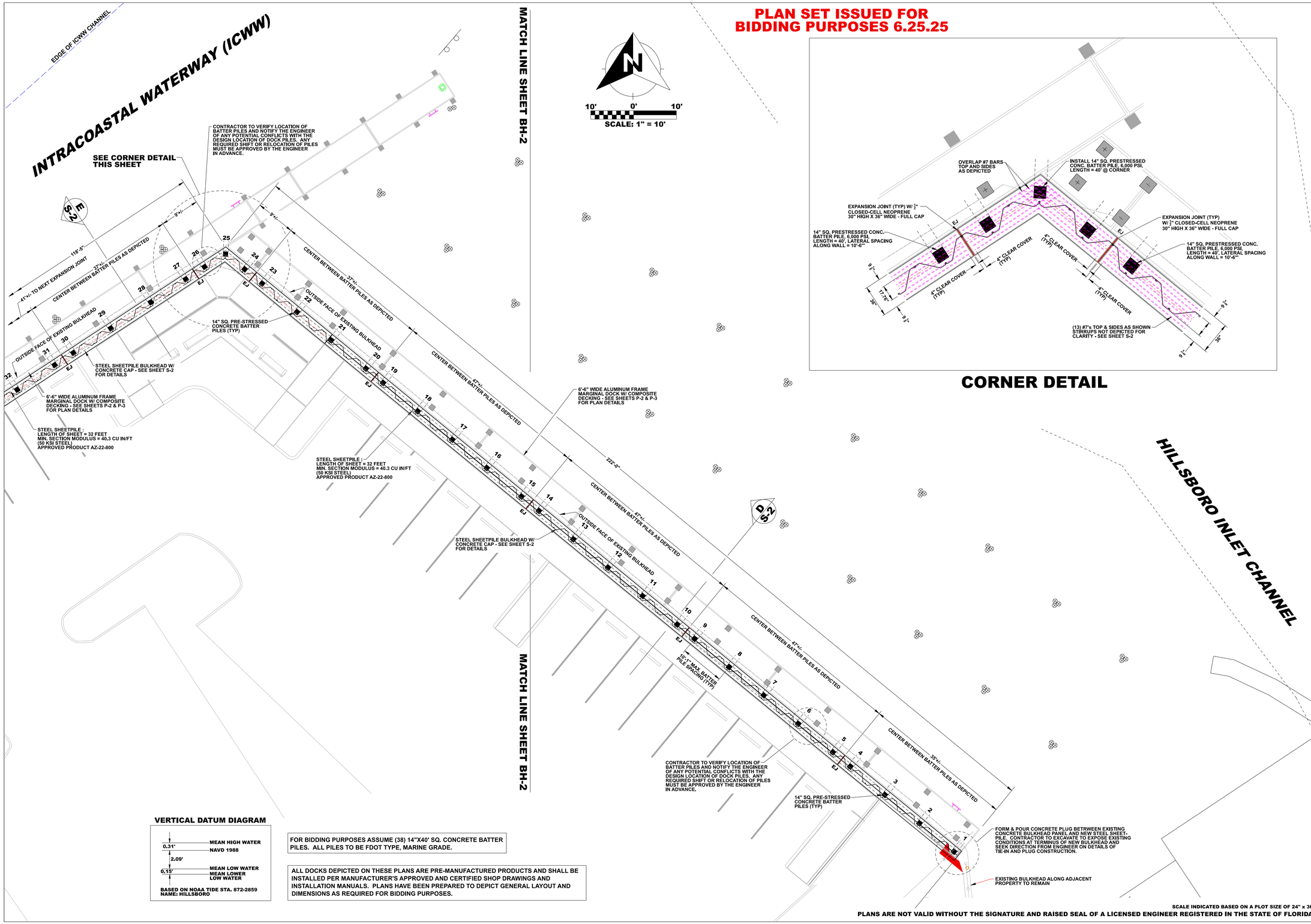
P-3

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

Exhibit "A"

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25



CORNER DETAIL

VERTICAL DATUM DIAGRAM

	MEAN HIGH WATER
0.31'	NAVD 1988
2.09'	
	MEAN LOW WATER
0.15'	MEAN LOWER LOW WATER

BASED ON NOAA TIDE STA. 872-2859 NAME: HILLSBORO

FOR BIDDING PURPOSES ASSUME (38) 14"X40' SQ. CONCRETE BATTER PILES. ALL PILES TO BE FDOT TYPE, MARINE GRADE.

ALL DOCKS DEPICTED ON THESE PLANS ARE PRE-MANUFACTURED PRODUCTS AND SHALL BE INSTALLED PER MANUFACTURER'S APPROVED AND CERTIFIED SHOP DRAWINGS AND INSTALLATION MANUALS. PLANS HAVE BEEN PREPARED TO DEPICT GENERAL LAYOUT AND DIMENSIONS AS REQUIRED FOR BIDDING PURPOSES.

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION**

CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **BULKHEAD PLAN DETAIL - EAST**

PREPARED FOR: pompano beach. Florida's Warmest Welcome

CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:

WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41184
FOR: SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 25937

PREPARED BY: **SEA DIVERSIFIED, INC.**
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

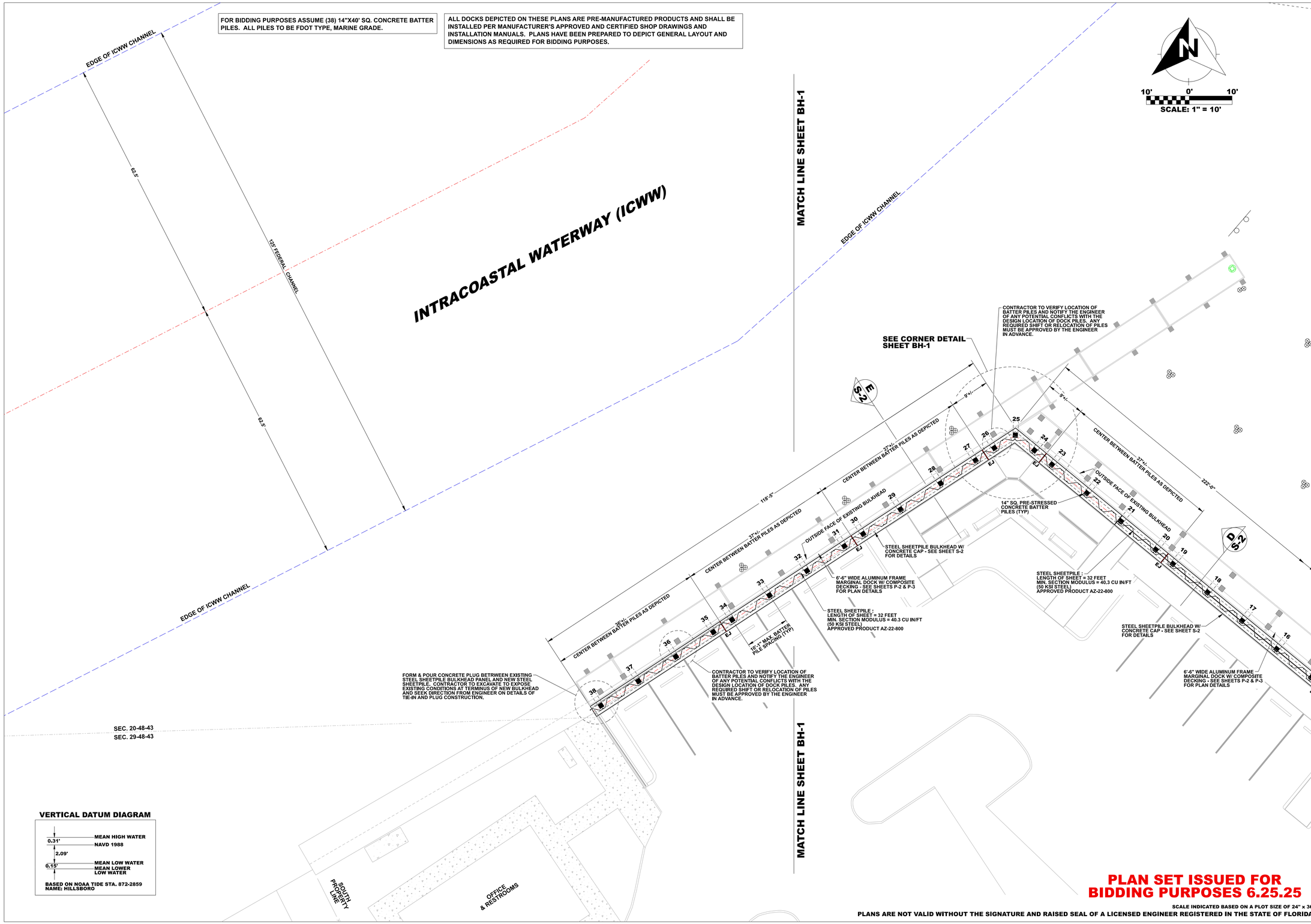
DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'-0"
SHEET:	BH-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

FOR BIDDING PURPOSES ASSUME (38) 14"X40' SQ. CONCRETE BATTER PILES. ALL PILES TO BE FDOT TYPE, MARINE GRADE.

ALL DOCKS DEPICTED ON THESE PLANS ARE PRE-MANUFACTURED PRODUCTS AND SHALL BE INSTALLED PER MANUFACTURER'S APPROVED AND CERTIFIED SHOP DRAWINGS AND INSTALLATION MANUALS. PLANS HAVE BEEN PREPARED TO DEPICT GENERAL LAYOUT AND DIMENSIONS AS REQUIRED FOR BIDDING PURPOSES.



VERTICAL DATUM DIAGRAM

	MEAN HIGH WATER
0.31'	NAVD 1988
2.09'	
	MEAN LOW WATER
0.15'	MEAN LOWER LOW WATER

BASED ON NOAA TIDE STA. 872-2859
NAME: HILLSBORO

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
BULKHEAD PLAN DETAIL - WEST

PREPARED FOR:
pompano beach. Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41184
FOR THE FIRM OF SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 25937

PREPARED BY:
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Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'-0"
SHEET:	

BH-2

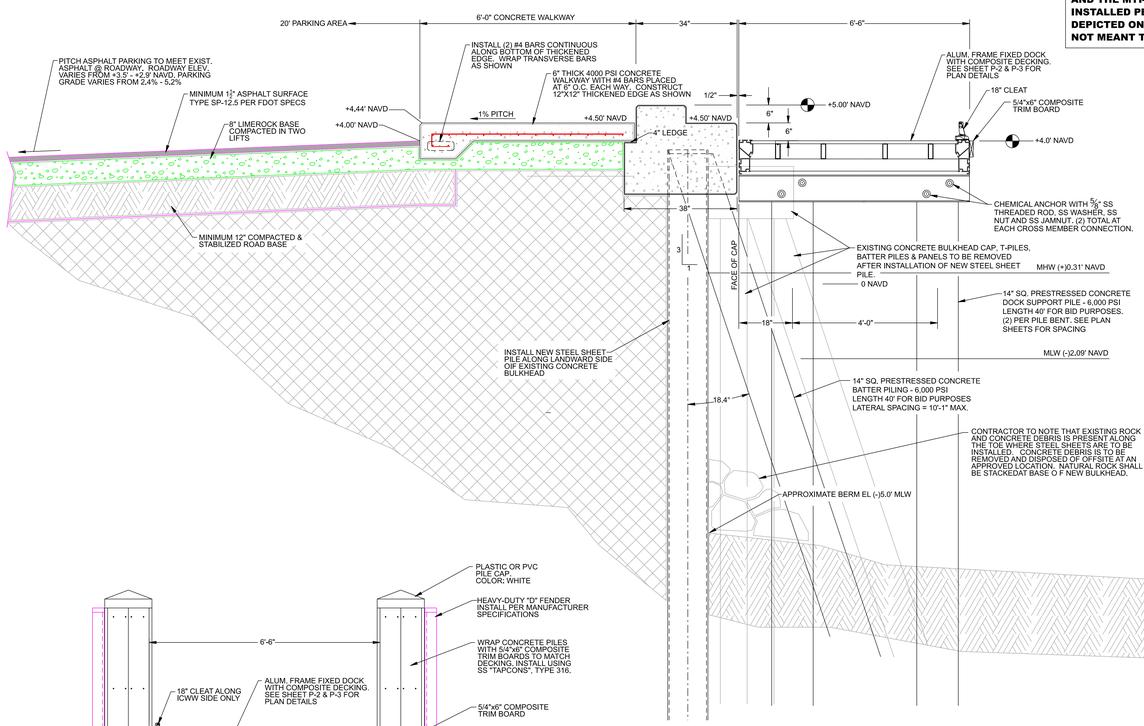
CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

Exhibit "A"

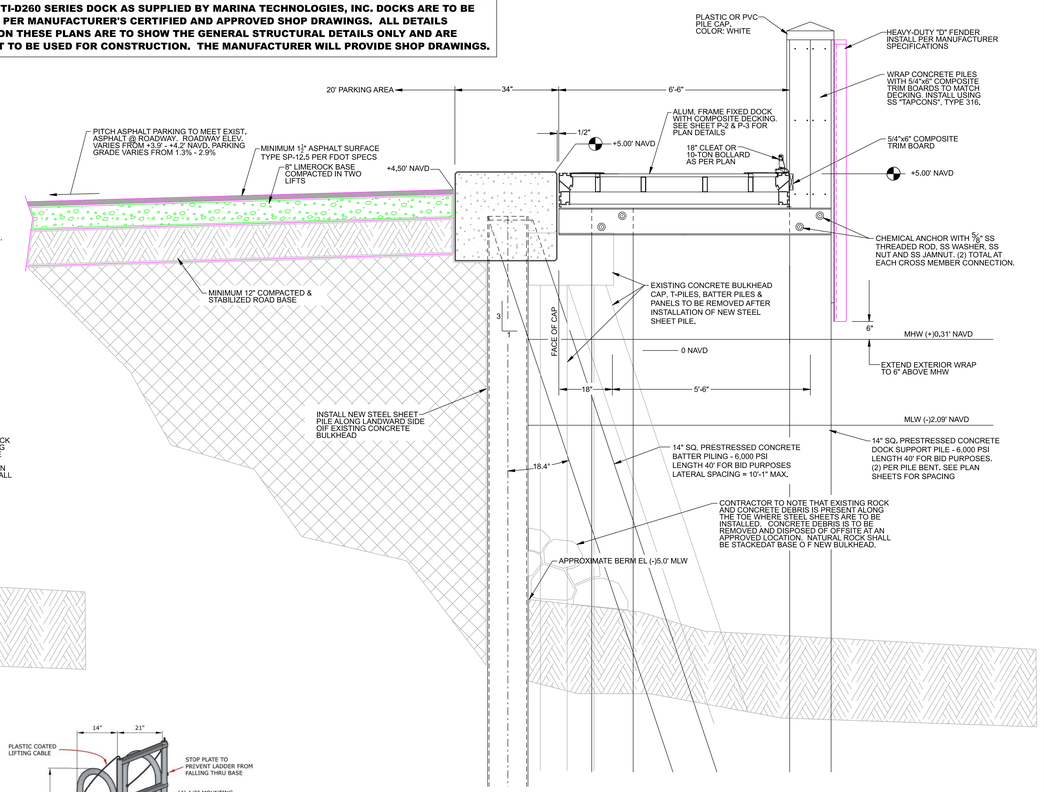
PLAN SET ISSUED FOR BIDDING PURPOSES 5.6.25

DOCK STRUCTURES ARE PRE-MANUFACTURED ALUMINUM PRODUCTS WITH COMPOSITE DECKING. ALUMINUM FRAMES ARE TO BE HEAVY-DUTY WITH DOUBLE TRACK EXTERNAL EXTRUSIONS FOR CLEAT / BOLLARD AND OTHER MARINA COMPONENT EASE OF INSTALLATION AND ADJUSTMENT. PRE-APPROVED SYSTEMS INCLUDE THE 950 SERIES DOCK AS SUPPLIED BY GOLDEN MARINE SYSTEMS AND THE MTI-D260 SERIES DOCK AS SUPPLIED BY MARINA TECHNOLOGIES, INC. DOCKS ARE TO BE INSTALLED PER MANUFACTURER'S CERTIFIED AND APPROVED SHOP DRAWINGS. ALL DETAILS DEPICTED ON THESE PLANS ARE TO SHOW THE GENERAL STRUCTURAL DETAILS ONLY AND ARE NOT MEANT TO BE USED FOR CONSTRUCTION. THE MANUFACTURER WILL PROVIDE SHOP DRAWINGS.



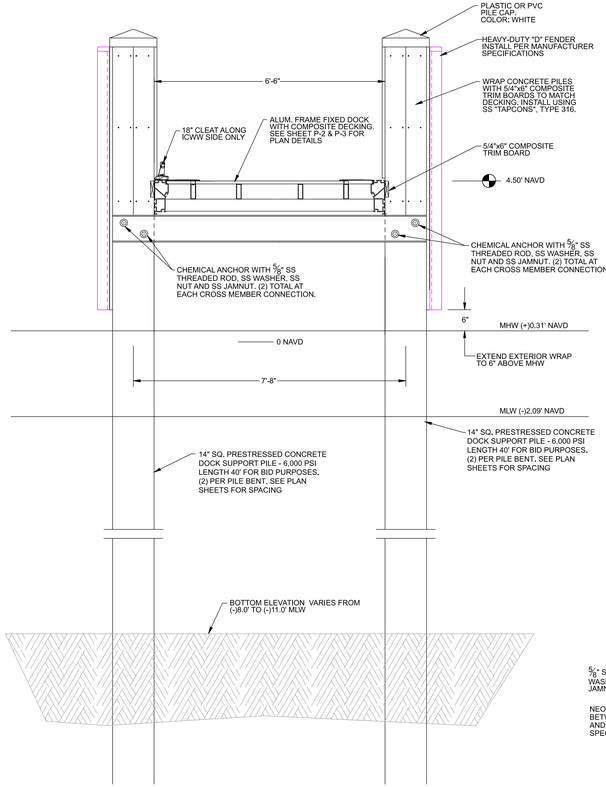
TYPICAL DOCK SECTION DETAIL A ALONG HILLSBORO INLET SIDE OF PROPERTY

SCALE: 1"=2'-0"



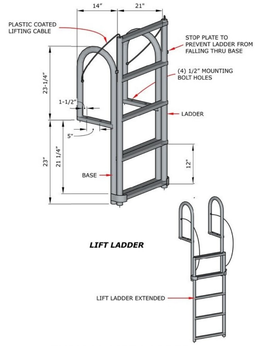
TYPICAL DOCK SECTION DETAIL C ALONG ICWW SIDE OF PROPERTY

SCALE: 1"=2'-0"



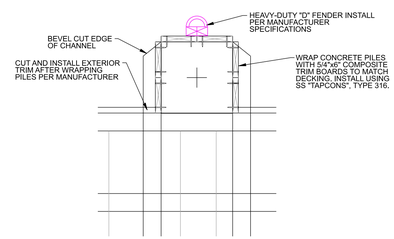
TYPICAL DOCK SECTION DETAIL B ALONG ICWW SIDE OF PROPERTY

SCALE: 1"=2'-0"



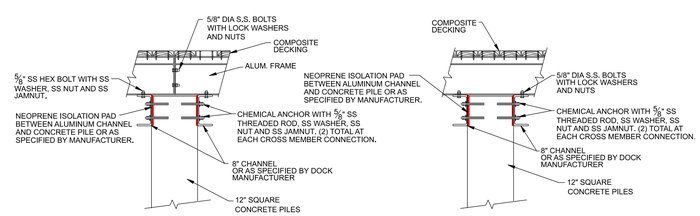
TYPICAL LIFT LADDER

NOTE: 5-STEP LADDER DEPICTED FOR TYPICAL ILLUSTRATION ONLY. 8-STEP LADDERS REQUIRED



PILE WRAP DETAIL

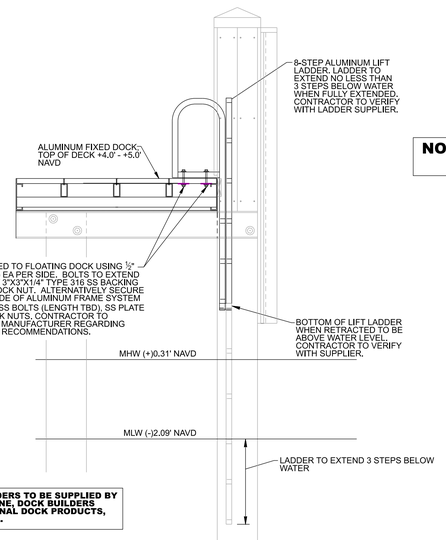
SCALE: 1" = 1'-0"



NOTE: CONTRACTOR TO INSTALL 1/8" NEOPRENE BUFFER PAD BETWEEN ALL ALUMINUM TO CONCRETE CONNECTIONS

ALUMINUM FRAME JOINT AND MID-SPAN CONNECTION DETAILS

N.T.S.



ALUMINUM LIFT LADDERS TO BE SUPPLIED BY HAVEN DOCK & MARINE, DOCK BUILDERS SUPPLY, INTERNATIONAL DOCK PRODUCTS, OR APPROVED EQUAL.

TYPICAL LADDER DETAIL

N.T.S.

NOTE: ALL CONCRETE PILES TO BE FDOT TYPE, MARINE GRADE

DESIGN CRITERIA

LIVE LOAD CRITERIA:
50 PSF, 400-LB POINT LOAD
FIXED STRUCTURES
PEDESTRIAN TRAFFIC ONLY

BERTHING LOAD CRITERIA:
3 FEET/SECOND (FPS)
10 DEGREE APPROACH ANGLE FOR SLIPS
30 DEGREE APPROACH ANGLE FOR SIDE & END TIES

WIND LOAD CRITERIA:
LOADED, FULL OCCUPANCY:
WIND SPEED: 90 MPH (3-SECOND GUST)
WIND SPEED: 74 MPH (1-MINUTE SUSTAINED)
UNLOADED, ZERO OCCUPANCY:
WIND SPEED: 150 MPH (3-SECOND GUST)
RISK CATEGORY I, EXPOSURE D PER ASCE/SEI 7-22 (FIXED STRUCTURES & BOAT LIFTS)

WAVE LOAD CRITERIA:
SIGNIFICANT WAVE HEIGHT (Hs): 3.6 FEET
WAVE PERIOD (Tp): 2.8 SECONDS

CURRENT LOAD CRITERIA:
2.0 FEET/SECOND (FPS)

WATER LEVEL DATA:
MHW: +0.31 FEET NAVD
MLW: -2.09 FEET NAVD

DESIGN WATER DEPTH:
-6.0 FEET MLW (MARGINAL DOCKS)
-12.0 FEET MLW (NW PIER)

SERVICE LIFE: 30 YEARS

NOTES:
1. LIMITED FETCH BY USACE S.P.M. 1984
2. DURATION AVERAGE WIND (50 MINUTE)
3. BREAKING WAVE BY MINIKIN EQUATION
4. FIXED DOCKS AND BOAT LIFTS TO COMPLY W/ 8TH EDITION (2023) FLORIDA BUILDING CODE

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: TYPICAL DOCK DETAILS

PREPARED FOR: pompano beach. Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION: WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41184
SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 29937

PREPARED BY: SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	AS SHOWN
SHEET:	S-1

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

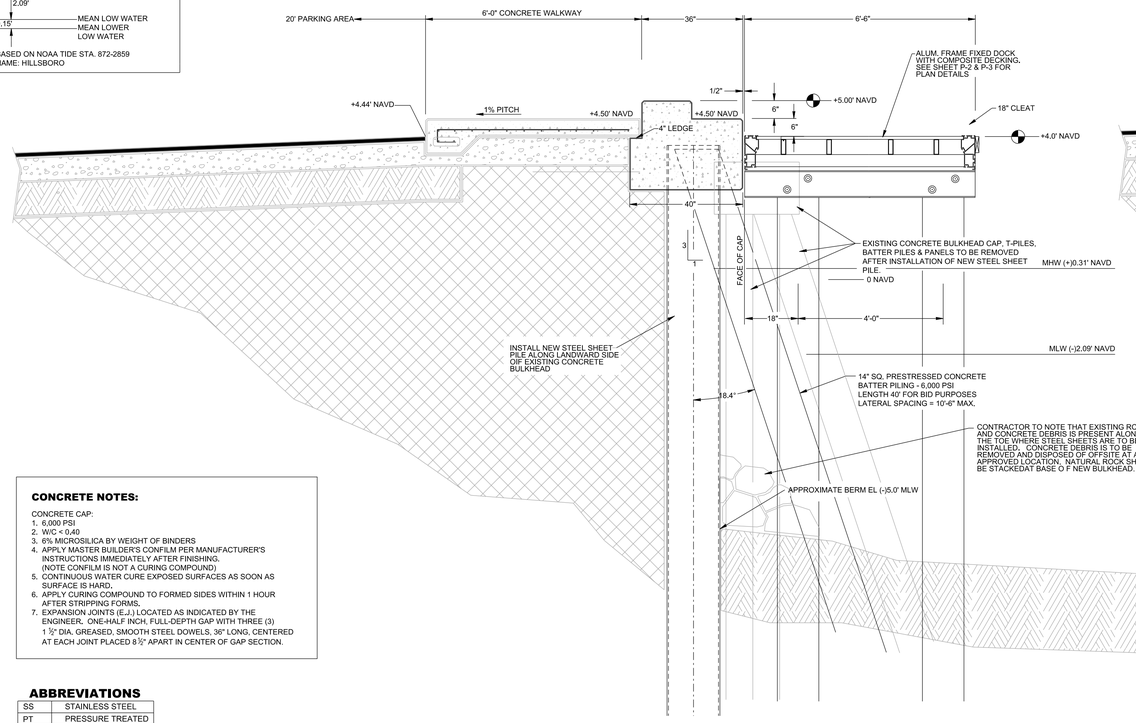
SDI P.N. 22-2990

Exhibit "A"

VERTICAL DATUM DIAGRAM

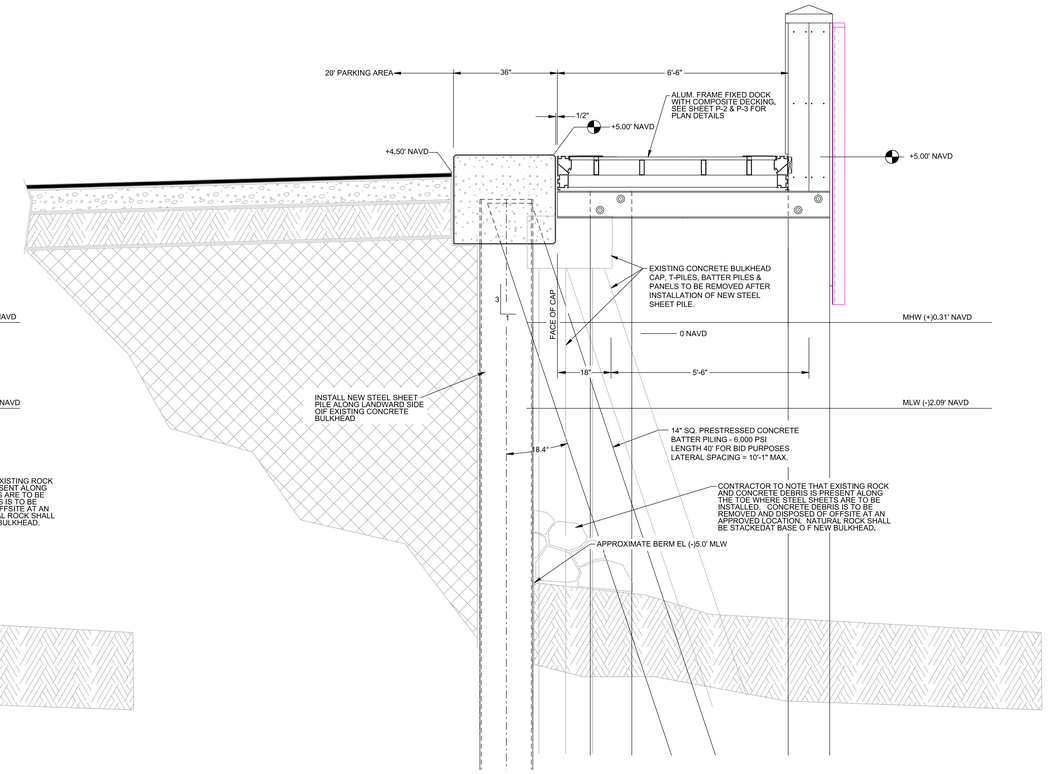
0.31'	MEAN HIGH WATER
	NAVD 1988
2.09'	
0.15'	MEAN LOW WATER
	MEAN LOWER LOW WATER

BASED ON NOAA TIDE STA. 872-2859
NAME: HILLSBORO



TYPICAL BULKHEAD SECTION DETAIL D ALONG HILLSBORO INLET SIDE OF PROPERTY

SCALE: 1"=2'-0"



TYPICAL BULKHEAD SECTION DETAIL E ALONG ICWW SIDE OF PROPERTY

SCALE: 1"=2'-0"

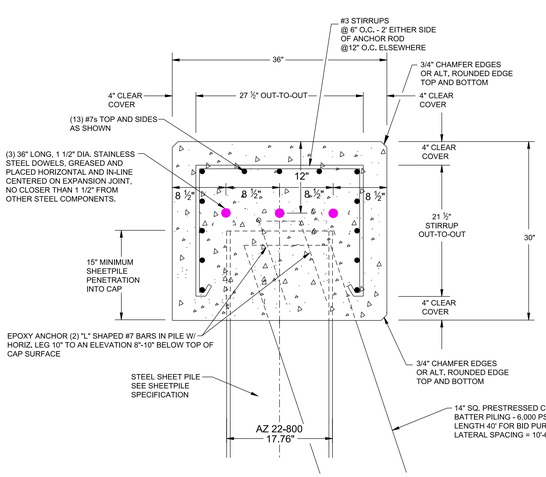
CONCRETE NOTES:

CONCRETE CAP:
1. 6,000 PSI
2. W/C < 0.40
3. 6% MICROSILICA BY WEIGHT OF BINDERS
4. APPLY MASTER BUILDER'S CONFILM PER MANUFACTURER'S INSTRUCTIONS IMMEDIATELY AFTER FINISHING. (NOTE CONFILM IS NOT A CURING COMPOUND)
5. CONTINUOUS WATER CURE EXPOSED SURFACES AS SOON AS SURFACE IS HARD.
6. APPLY CURING COMPOUND TO FORMED SIDES WITHIN 1 HOUR AFTER STRIPPING FORMS.
7. EXPANSION JOINTS (E.J.) LOCATED AS INDICATED BY THE ENGINEER. ONE-HALF INCH, FULL-DEPTH GAP WITH THREE (3) 1 ½" DIA. GREASED, SMOOTH STEEL DOWELS, 36" LONG, CENTERED AT EACH JOINT PLACED 8½" APART IN CENTER OF GAP SECTION.

ABBREVIATIONS

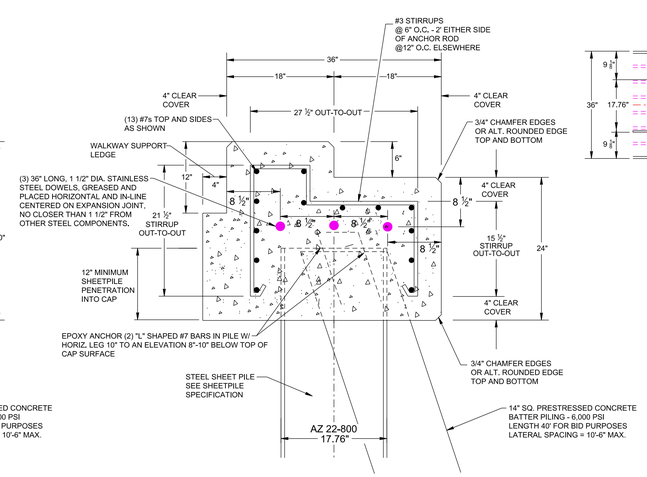
SS	STAINLESS STEEL
PT	PRESSURE TREATED
TYP	TYPICAL
MIN	MINIMUM
DIA	DIAMETER

NOTE: ALL CONCRETE PILES TO BE FDOT TYPE, MARINE GRADE



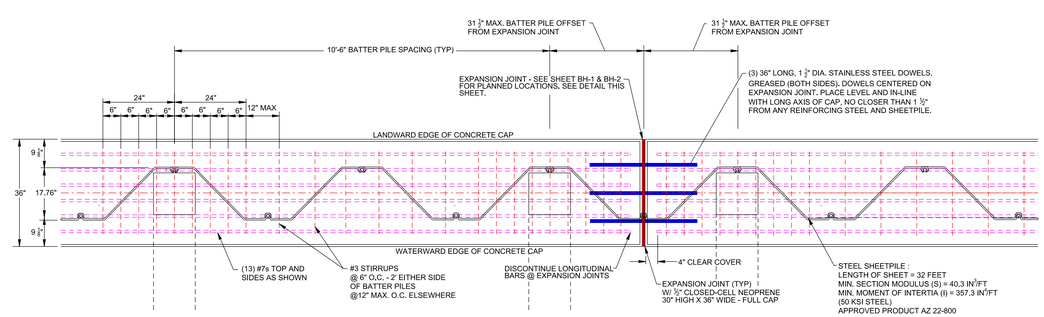
TYPICAL ICWW CAP SECTION DETAIL E

NOT TO SCALE



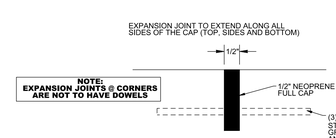
TYPICAL INLET CAP SECTION DETAIL D

NOT TO SCALE



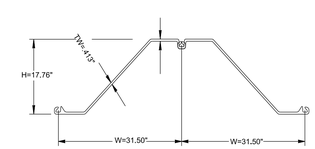
TYPICAL CAP PLAN DETAIL

SCALE: 1"=2'-0"



EXPANSION JOINT DETAIL

NOT TO SCALE



STEEL SHEETPILE DETAIL

TYPICAL OR EQUIVALENT — NOT TO SCALE

STEEL SHEETPILE :
LENGTH OF SHEET = 32.0 FEET
MIN. SECTION MODULUS (S) = 40.3 IN³/FT - 50 KSI STEEL
MIN. MOMENT OF INERTIA (I) = 357.3 IN⁴/FT
APPROVED PRODUCT AZ 22-800 OR EQUIVALENT
HOT-ROLLED SHEET ONLY, CAP WIDTH EQUALS 36"
SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING STEEL SHEETPILE.

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: TYPICAL BULKHEAD DETAILS

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

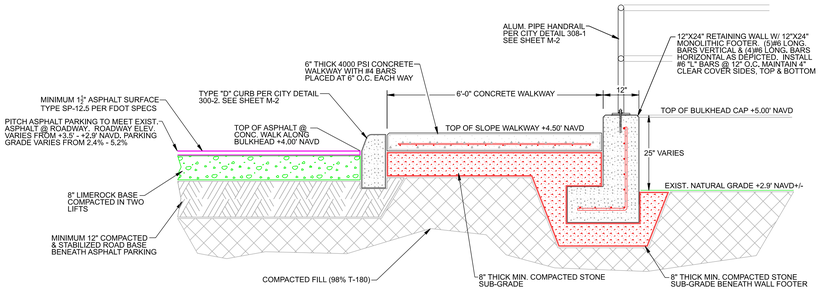
CERTIFICATION: WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41184
SEA DIVERSIFIED, INC. (FORMERLY NAMED), INC.
C.A. LICENSE NUMBER 25937

PREPARED BY: SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	AS SHOWN
SHEET:	S-2

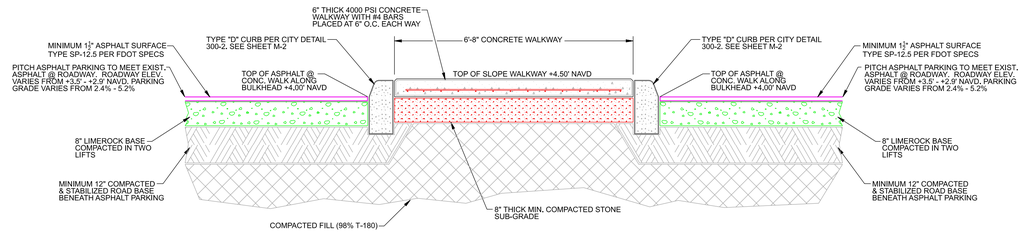
CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990



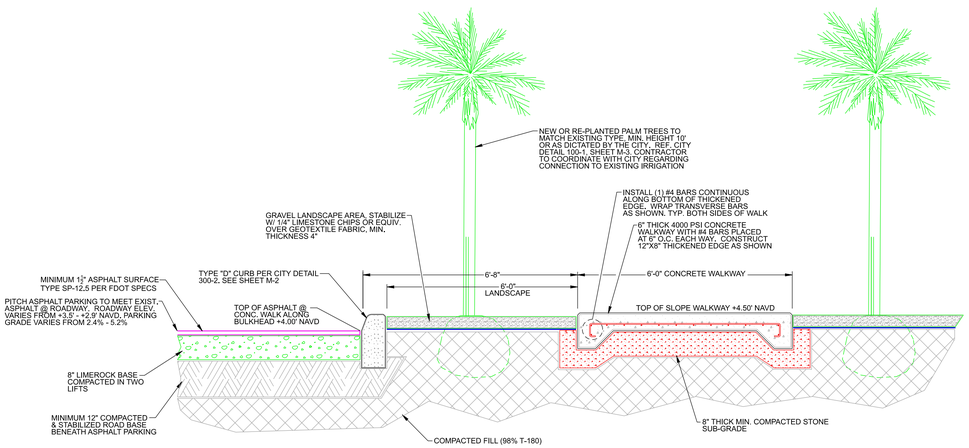
TYPICAL WALKWAY SECTION DETAIL F @ NORTH - EAST ACCESS

SCALE: 1"=2'-0"



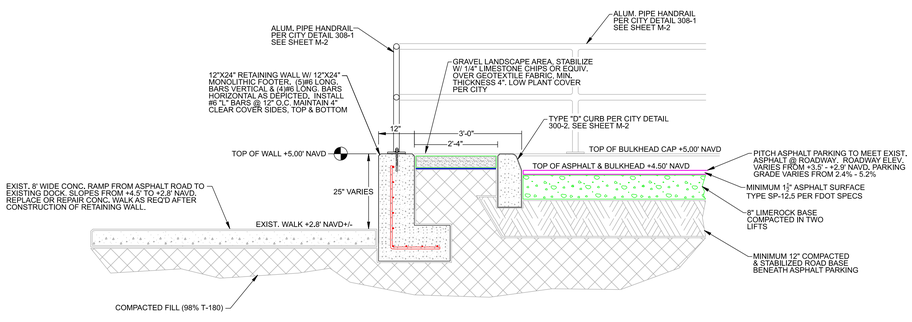
TYPICAL WALKWAY SECTION DETAIL G @ NORTH - CENTRAL ACCESS

SCALE: 1"=2'-0"



TYPICAL ACCESS WALKWAY SECTION DETAIL H @ NORTHWEST CORNER OF PROJECT

SCALE: 1"=2'-0"

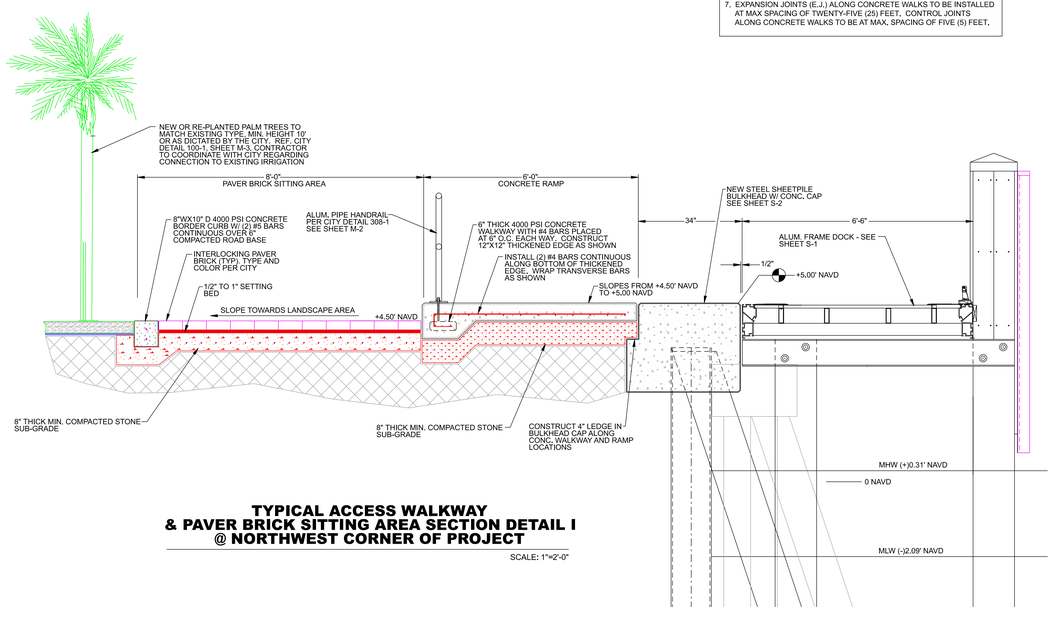


TYPICAL RETAINING WALL SECTION DETAIL J @ SOUTH TERMINUS OF PROJECT

SCALE: 1"=2'-0"

CONCRETE NOTES:

CONCRETE CAP:
1. 6,000 PSI
2. W/C < 0.40
3. 6% MICROSILICA BY WEIGHT OF BINDERS
4. APPLY MASTER BUILDER'S CONFILM PER MANUFACTURER'S INSTRUCTIONS IMMEDIATELY AFTER FINISHING. (NOTE CONFILM IS NOT A CURING COMPOUND)
5. CONTINUOUS WATER CURE EXPOSED SURFACES AS SOON AS SURFACE IS HARD.
6. APPLY CURING COMPOUND TO FORMED SIDES WITHIN 1 HOUR AFTER STRIPPING FORMS.
7. EXPANSION JOINTS (E.J.) ALONG CONCRETE WALKS TO BE INSTALLED AT MAX SPACING OF TWENTY-FIVE (25) FEET. CONTROL JOINTS ALONG CONCRETE WALKS TO BE AT MAX. SPACING OF FIVE (5) FEET.



TYPICAL ACCESS WALKWAY & PAVER BRICK SITTING AREA SECTION DETAIL I @ NORTHWEST CORNER OF PROJECT

SCALE: 1"=2'-0"

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION**

CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **TYPICAL SECTION DETAILS**

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41184
SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 29937

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	AS SHOWN
SHEET:	S-3
CADD ID:	
SHEET NO.:	
TOTAL NUMBER OF SHEETS:	

SDI P.N. 22-2990

Exhibit "A"

PROPOSED PARKING COUNT

EXISTING MARKED (ASPHALT)	35
NEW MARKED (ASPHALT)	21
EXISTING HANDICAP	3
TOTAL	59

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
UPLAND SITE PLAN

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR., P.E.
FLORIDA REGISTRATION NUMBER 41164
KAREN M. FIGUEROA (LICENSED), INC.
C.A. LICENSE NUMBER 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Cypress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

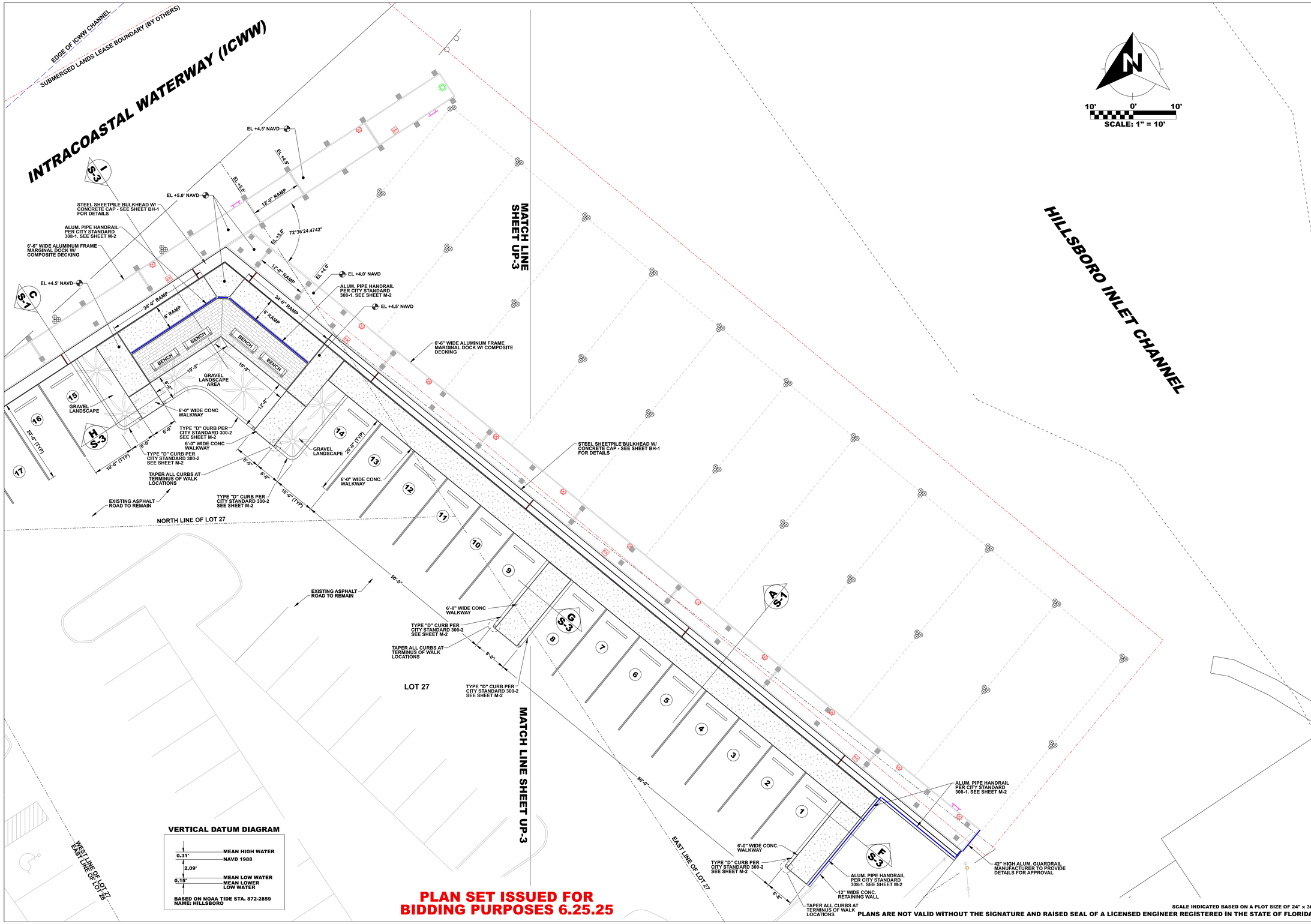
SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'-0"
SHEET:	

UP-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990



PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION**

CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **UPLAND PLAN DETAIL - EAST**

PREPARED FOR: pompano beach. Florida's Warmest Welcome

CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:

WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41184
FOR THE FIRM SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 2593

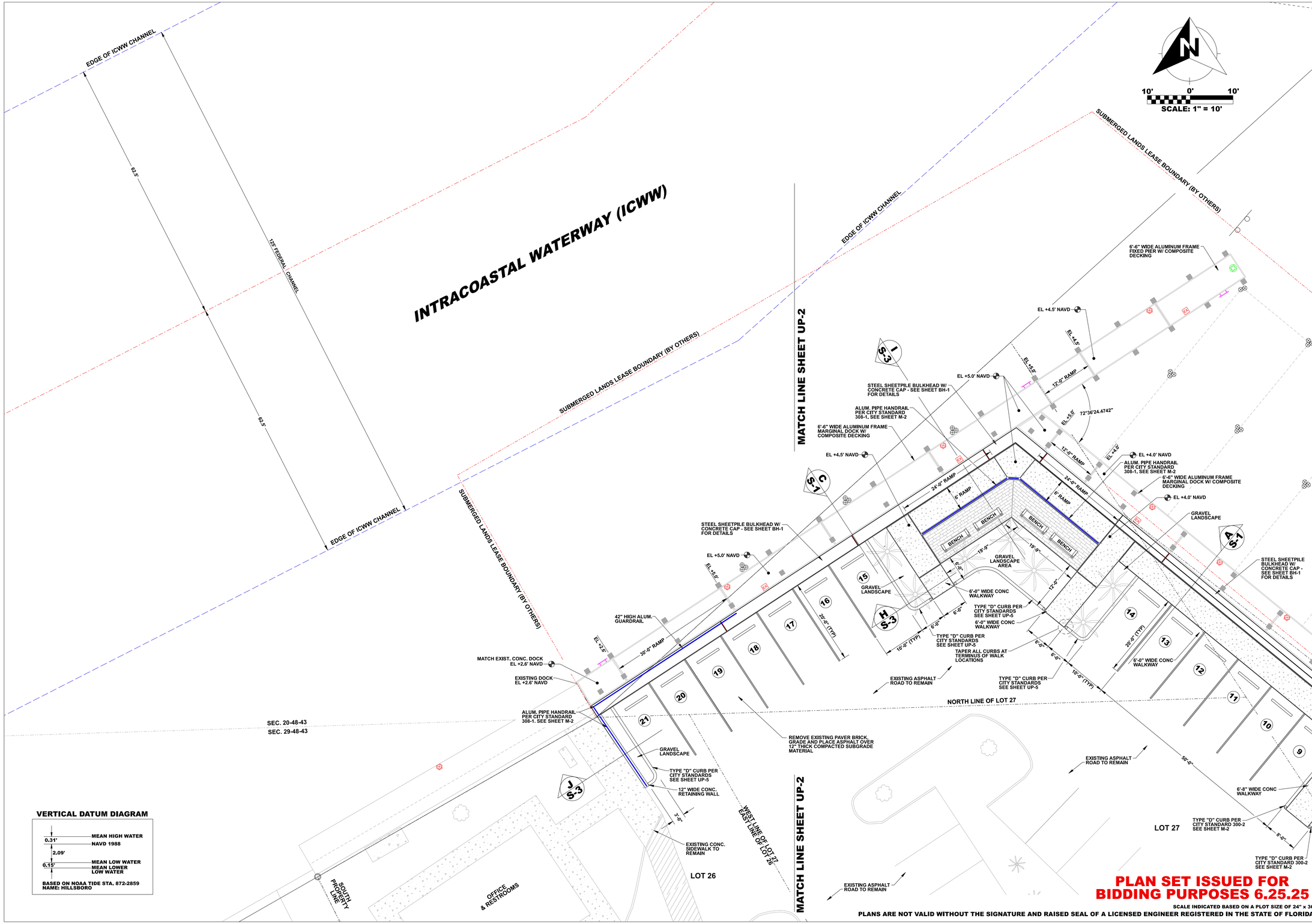
PREPARED BY:

SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'-0"
SHEET:	UP-2

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990



SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION**

CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **UPLAND PLAN DETAIL - WEST**

PREPARED FOR: pompano beach. Florida's Warmest Welcome

CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:

WILLIAM T. SADLER JR., P.E.
FLORIDA REGISTRATION NUMBER 41184
FOR THE FIRM: SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 29937

PREPARED BY:

SEA DIVERSIFIED, INC.
Surveying & Engineering Applications

160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445

TEL: (561) 243-4920

WWW.SEADIVERSIFIED.COM

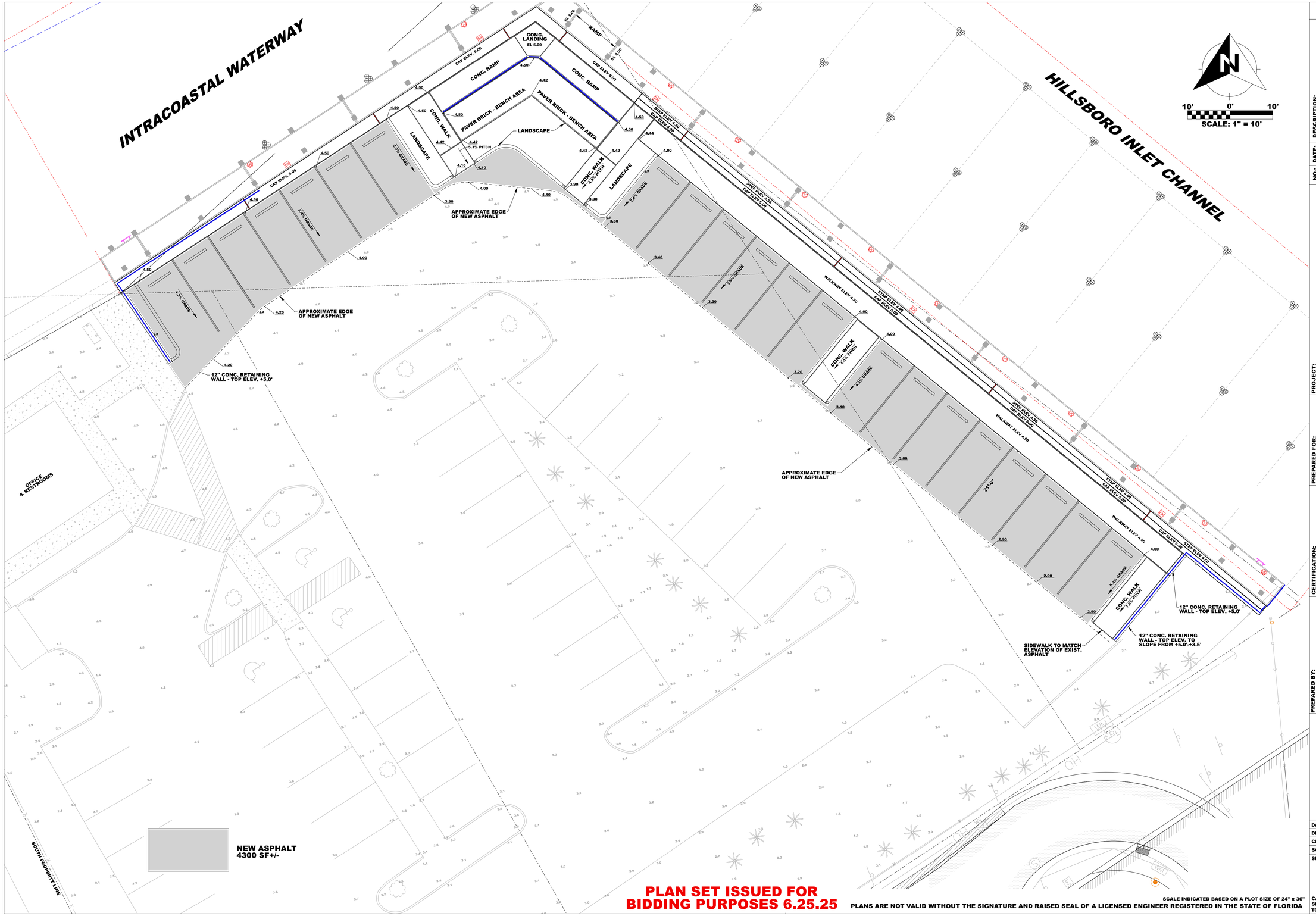
DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'-0"
SHEET:	

UP-3

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

Exhibit "A"



PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
SITE GRADING PLAN

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR. P.E.
FLORIDA REGISTRATION NUMBER 41164
FOR THE FIRM OF SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 29937

PREPARED BY:

SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

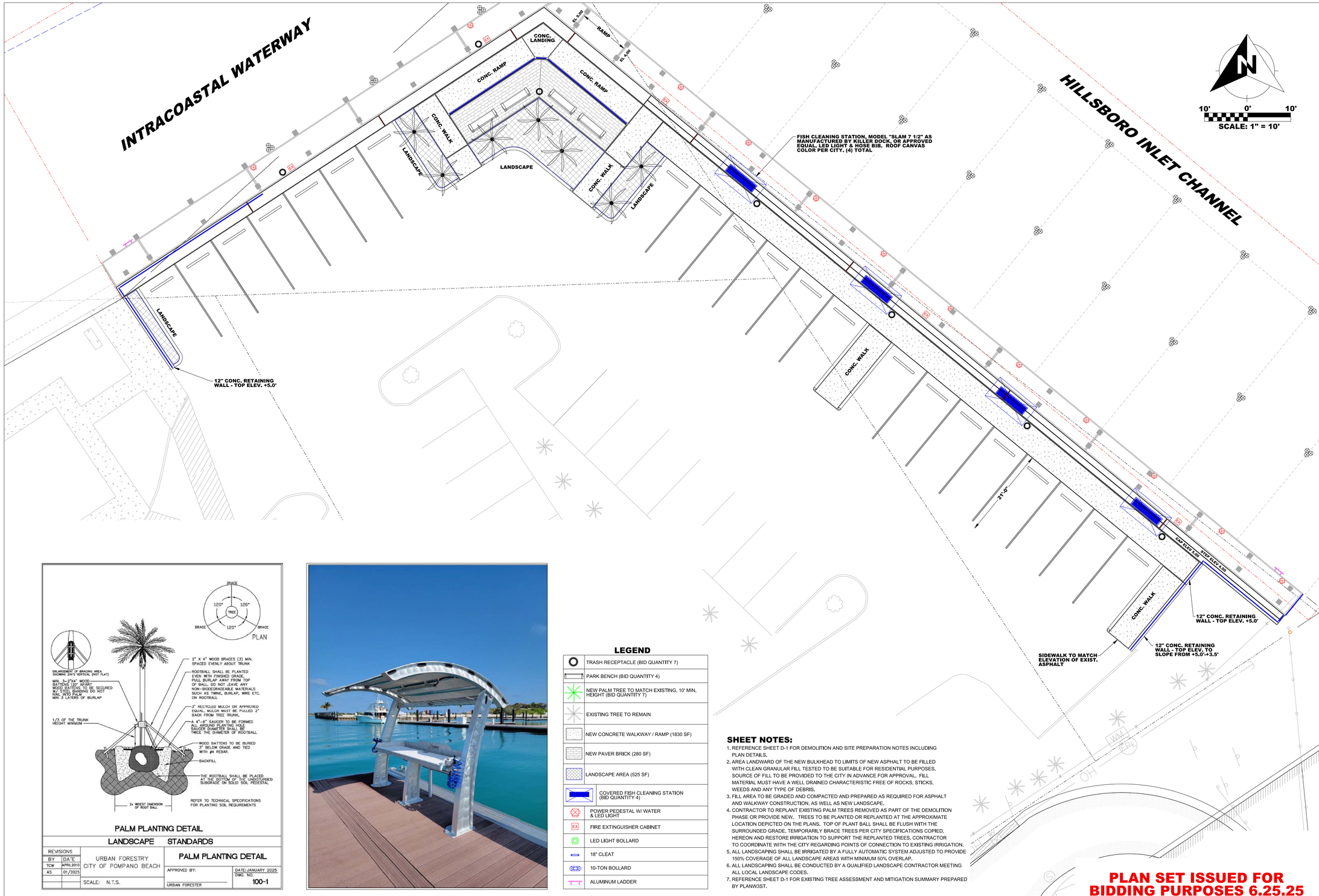
SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	

UP-4

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990



PALM PLANTING DETAIL

LANDSCAPE STANDARDS

REVISIONS			
BY	DATE	URBAN FORESTRY CITY OF POMPANO BEACH	PALM PLANTING DETAIL
TCW	APRIL2010		
AS	01/2025		APPROVED BY: / DATE-JANUARY 2025
		SCALE: N.T.S.	URBAN FORESTER / DWG. NO. 100-1

LEGEND

	TRASH RECEPTACLE (BID QUANTITY 7)
	PARK BENCH (BID QUANTITY 4)
	NEW PALM TREE TO MATCH EXISTING, 10' MIN. HEIGHT (BID QUANTITY 7)
	EXISTING TREE TO REMAIN
	NEW CONCRETE WALKWAY / RAMP (1830 SF)
	NEW PAVER BRICK (280 SF)
	LANDSCAPE AREA (525 SF)
	COVERED FISH CLEANING STATION (BID QUANTITY 4)
	POWER PEDESTAL W/ WATER & LED LIGHT
EX	FIRE EXTINGUISHER CABINET
	LED LIGHT BOLLARD
	18" CLEAT
	10-TON BOLLARD
	ALUMINUM LADDER

SHEET NOTES:

1. REFERENCE SHEET D-1 FOR DEMOLITION AND SITE PREPARATION NOTES INCLUDING PLAN DETAILS.
2. AREA LANDWARD OF THE NEW BULKHEAD TO LIMITS OF NEW ASPHALT TO BE FILLED WITH CLEAN GRANULAR FILL TESTED TO BE SUITABLE FOR RESIDENTIAL PURPOSES. SOURCE OF FILL TO BE PROVIDED TO THE CITY IN ADVANCE FOR APPROVAL. FILL MATERIAL MUST HAVE A WELL DRAINED CHARACTERISTIC FREE OF ROCKS, STICKS, WEEDS AND ANY TYPE OF DEBRIS.
3. FILL AREA TO BE GRADED AND COMPACTED AND PREPARED AS REQUIRED FOR ASPHALT AND WALKWAY CONSTRUCTION, AS WELL AS NEW LANDSCAPE.
4. CONTRACTOR TO REPLANT EXISTING PALM TREES REMOVED AS PART OF THE DEMOLITION PHASE OR PROVIDE NEW. TREES TO BE PLANTED OR REPLANTED AT THE APPROXIMATE LOCATION DEPICTED ON THE PLANS. TOP OF PLANT BALL SHALL BE FLUSH WITH THE SURROUNDED GRADE, TEMPORARILY BRACE TREES PER CITY SPECIFICATIONS COPIED, HEREON AND RESTORE IRRIGATION TO SUPPORT THE REPLANTED TREES. CONTRACTOR TO COORDINATE WITH THE CITY REGARDING POINTS OF CONNECTION TO EXISTING IRRIGATION.
5. ALL LANDSCAPING SHALL BE IRRIGATED BY A FULLY AUTOMATIC SYSTEM ADJUSTED TO PROVIDE 150% COVERAGE OF ALL LANDSCAPE AREAS WITH MINIMUM 50% OVERLAP.
6. ALL LANDSCAPING SHALL BE CONDUCTED BY A QUALIFIED LANDSCAPE CONTRACTOR MEETING ALL LOCAL LANDSCAPE CODES.
7. REFERENCE SHEET D-1 FOR EXISTING TREE ASSESSMENT AND MITIGATION SUMMARY PREPARED BY PLANW3ST.

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION

CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: LANDSCAPE & MARINA AMENITY PLAN

PREPARED FOR: pompano beach. Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION: WILLIAM T. SADLER JR., P.E. FLORIDA REGISTRATION NUMBER #51184 FOR SEA DIVERSIFIED, INCORPORATED, INC. C.A. LICENSE NUMBER 25937

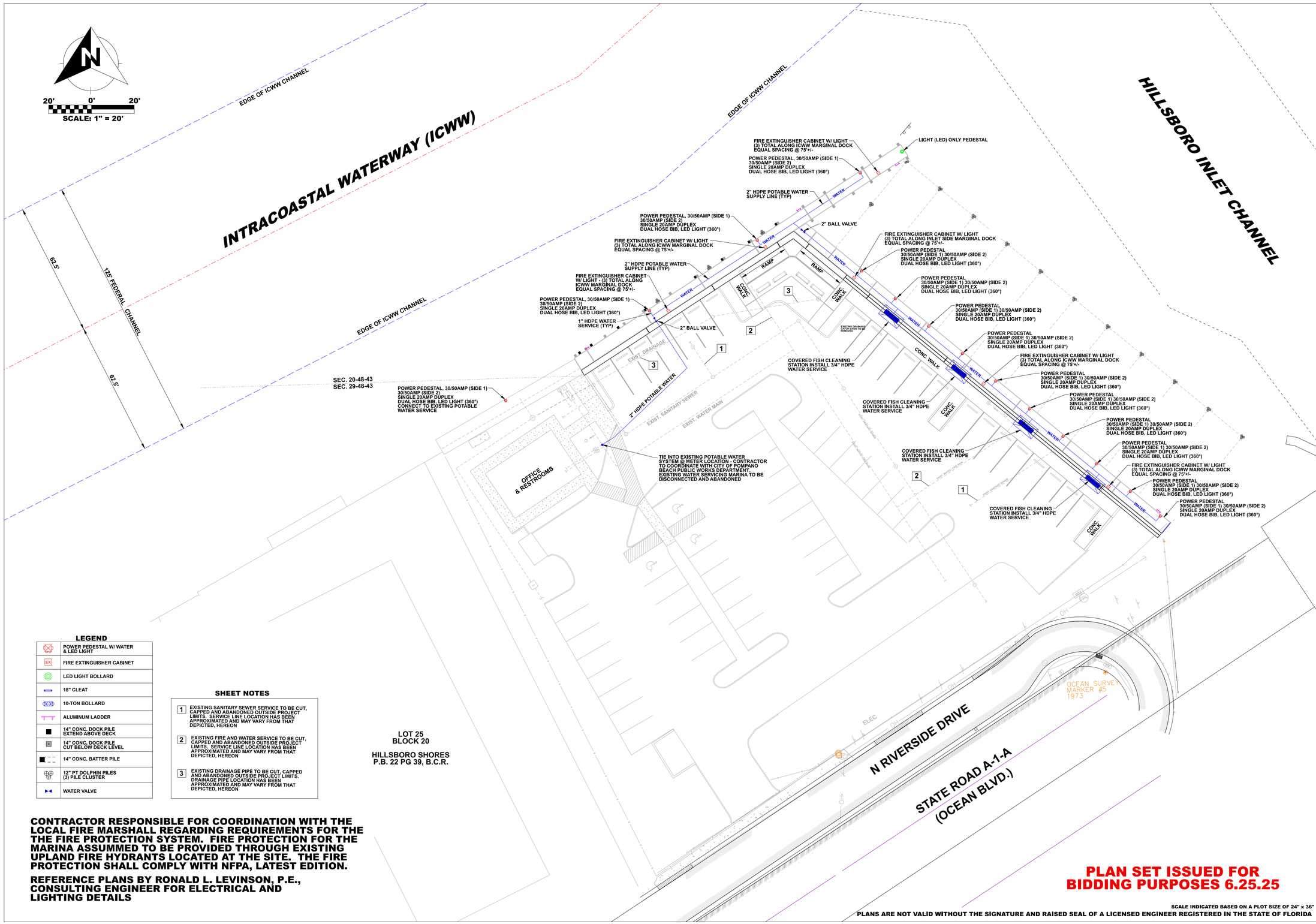
PREPARED BY: SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	L-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

Exhibit "A"



LEGEND

	POWER PEDESTAL W/ WATER & LED LIGHT
EX	FIRE EXTINGUISHER CABINET
	LED LIGHT BOLLARD
	18" CLEAT
	10-TON BOLLARD
	ALUMINUM LADDER
	14" CONC. DOCK PILE EXTEND ABOVE DECK
	14" CONC. DOCK PILE CUT BELOW DECK LEVEL
	14" CONC. BATTER PILE
	12" PT DOLPHIN PILES (3) PILE CLUSTER
	WATER VALVE

SHEET NOTES

1. EXISTING SANITARY SEWER SERVICE TO BE CUT, CAPPED AND ABANDONED OUTSIDE PROJECT LIMITS. SERVICE LINE LOCATION HAS BEEN APPROXIMATED AND MAY VARY FROM THAT DEPICTED, HEREON
2. EXISTING FIRE AND WATER SERVICE TO BE CUT, CAPPED AND ABANDONED OUTSIDE PROJECT LIMITS. SERVICE LINE LOCATION HAS BEEN APPROXIMATED AND MAY VARY FROM THAT DEPICTED, HEREON
3. EXISTING DRAINAGE PIPE TO BE CUT, CAPPED AND ABANDONED OUTSIDE PROJECT LIMITS. DRAINAGE PIPE LOCATION HAS BEEN APPROXIMATED AND MAY VARY FROM THAT DEPICTED, HEREON

CONTRACTOR RESPONSIBLE FOR COORDINATION WITH THE LOCAL FIRE MARSHALL REGARDING REQUIREMENTS FOR THE THE FIRE PROTECTION SYSTEM. FIRE PROTECTION FOR THE MARINA ASSUMMED TO BE PROVIDED THROUGH EXISTING UPLAND FIRE HYDRANTS LOCATED AT THE SITE. THE FIRE PROTECTION SHALL COMPLY WITH NFPA, LATEST EDITION.

REFERENCE PLANS BY RONALD L. LEVINSON, P.E., CONSULTING ENGINEER FOR ELECTRICAL AND LIGHTING DETAILS

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: POTABLE WATER SYSTEM & FIRE PROTECTION

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR., P.E.
FLORIDA REGISTRATION NUMBER 41184
FOR THE FIRM OF SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 29937

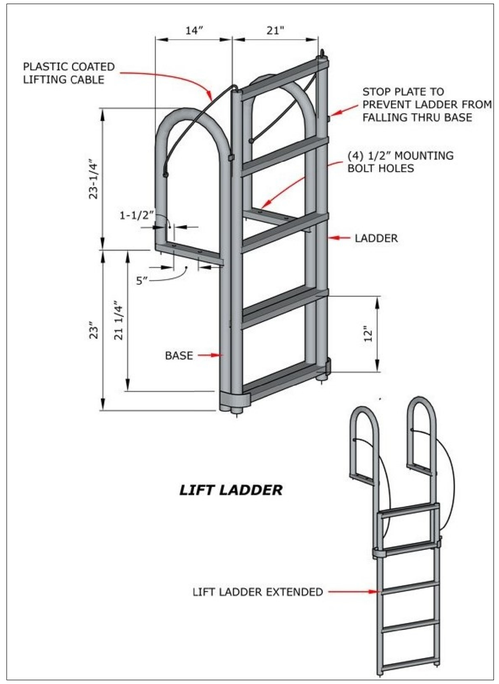
PREPARED BY: SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Cypress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'-0"
SHEET:	U-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

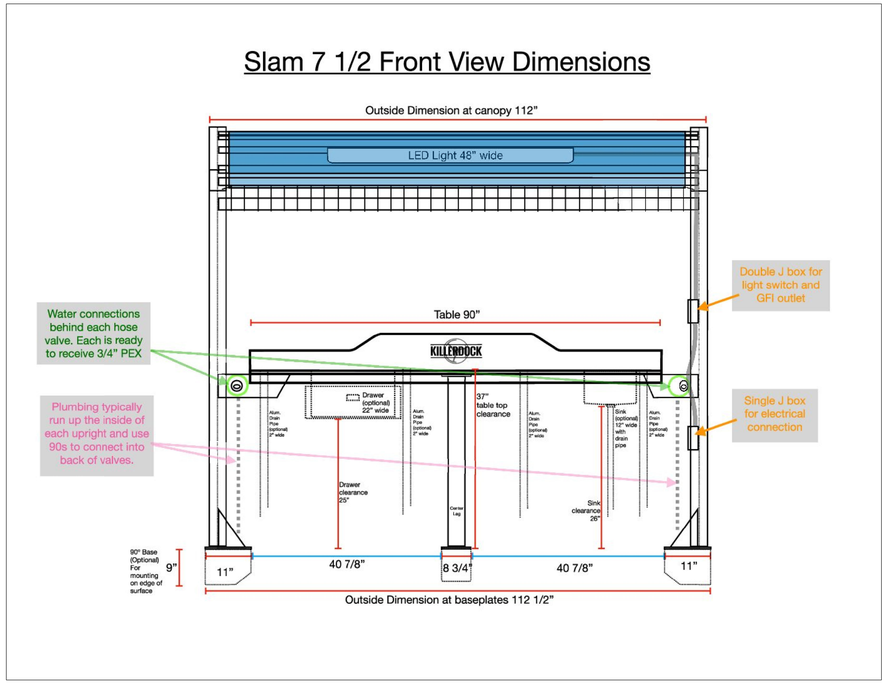


TYPICAL LADDER DETAIL

(AS SUPPLIED BY INTERNATIONAL DOCK PRODUCTS, DOCK BUILDERS SUPPLY, OR EQUIVALENT)

TYPICAL FISH CLEANING STATION

(MODEL "SLAM 7 1/2" AS SUPPLIED BY KILLER DOCK OR APPROVED EQUAL)

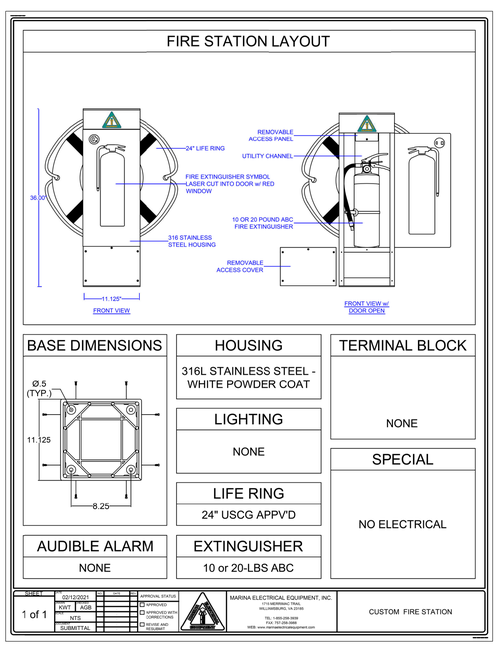


TYPICAL FISH CLEANING STATION DETAILS

(MODEL "SLAM 7 1/2" AS SUPPLIED BY KILLER DOCK OR APPROVED EQUIVALENT)

TYPICAL FIRE EXTNGUISHER CABINET

(AS SUPPLIED BY MARINA ELECTRICAL EQUIPMENT, EATON CORPORATION OR EQUIVALENT)



TYPICAL FIRE EXTINGUISHER CABINET DETAIL (ALTERNATE WITHOUT LIGHT & ALARM)

(AS SUPPLIED BY MARINA ELECTRICAL EQUIPMENT, EATON CORPORATION OR EQUIVALENT)

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION**

CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **STANDARD DETAILS**

PREPARED FOR: pompano beach. Florida's Warmest Welcome

CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:

WILLIAM T. SADLER JR., P.E.
FLORIDA REGISTRATION NUMBER 41184
FLORIDA BUSINESS CERTIFICATE OF AUTHORIZATION NUMBER 29937
C.A. LICENSE NUMBER 29937

PREPARED BY: **SEA DIVERSIFIED, INC.**
Surveying & Engineering Applications

160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445

TEL: (561) 243-4920

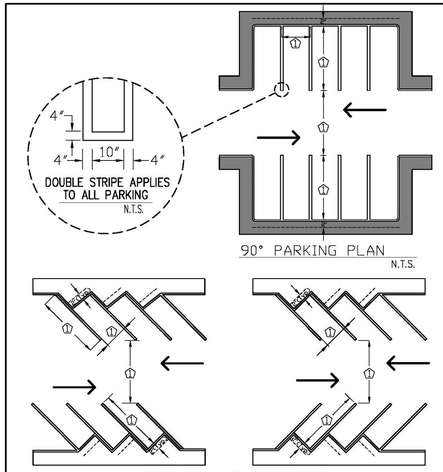
WWW.SEADIVERSIFIED.COM

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	M-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

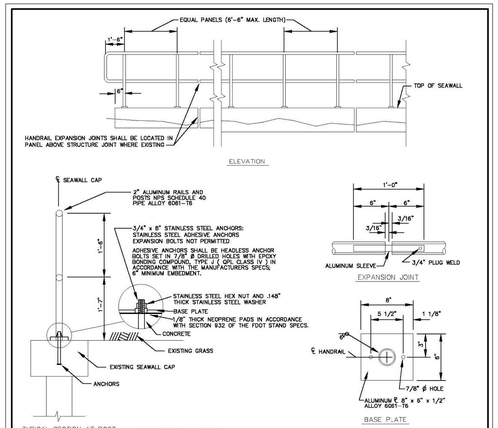


NOTES

1. INDICATED DIMENSION BY LOCAL ZONING ORDINANCE.
2. CURBING APPLIES TO ALL PARKING.
3. EACH SPACE SHALL BE DESIGNATED BY FOUR 4 INCH WIDE VISIBLE STRIPING CONSISTING OF WHITE PAINT OR AS APPROVED BY THE CITY.

ENGINEERING STANDARDS 2019

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	STANDARD PARKING SPACES
		SCALE: N.T.S.	DATE: December 2014 DWG. NO. 300-3



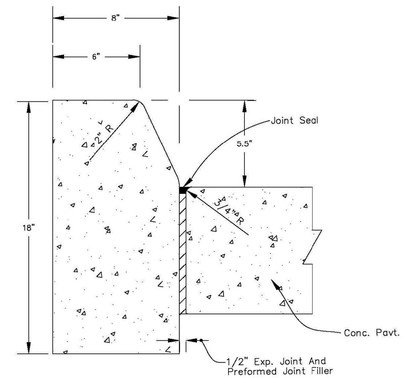
PIPE HAND RAIL NOTES

1. ALL FIXED JOINTS TO BE EITHER WELDED ALL AROUND AND GROUND SMOOTH; OR, COMMERCIALLY DESIGNED FIXED JOINT SYSTEMS (SLEEVED, BRAZED, FUSED, BONDED OR SHRINK FITTED) SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. MECHANICAL JOINTS OTHER THAN EXPANSION JOINTS ARE NOT PERMITTED UNLESS SPECIFIED ON THE PLANS OR APPROVED IN WRITING BY THE ENGINEER. POSTS SHALL BE CONNECTED TO BASE BY WELD ONLY. WELD FILLER TO BE ALLOY ER5356, ER5556 OR ER5183.
2. ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM A36 OR A307, NUTS, WASHERS, AND BOLTS TO BE STAINLESS STEEL IN CONFORMANCE WITH ASTM A153. AFTER THE NUTS HAVE BEEN TIGHTENED, THE ANCHOR BOLT THREADS SHALL BE DISTORTED ON THE NUTS AND BOLTS SPOT WELDED AND COATED WITH ZINC COMPOUND.
3. ALUMINUM HANDRAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 515 OF THE FDOT STANDARD SPECIFICATIONS. PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING HANDRAIL, INCLUDING MOUNTING HARDWARE, AND SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR PIPE HANDRAIL (ALUMINUM), ML.

ALUMINUM PIPE HANDRAIL

ENGINEERING STANDARDS 2019

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	ALUMINUM PIPE HANDRAIL
S.S.	1/31/12	SCALE: N.T.S.	DATE: MAY 2001 DWG. NO. 308-1



TYPE "D" CURB

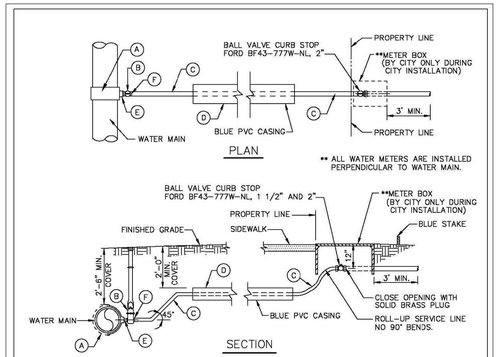
NOTE

FOR USE ADJACENT TO CONCRETE OR FLEXIBLE PAVEMENT, CONCRETE SHOWN. EXPANSION JOINT, PREFORMED JOINT FILLER AND JOINT SEAL ARE REQUIRED BETWEEN CURBS AND CONCRETE PAVEMENT ONLY.

CONCRETE CURB DETAIL

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	CONCRETE CURB
S.S.	01-2014		
S.S.	08-2015		
S.S.	07-2016	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 300-2

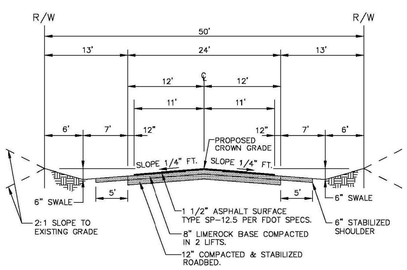


(A) 2" TAPPING SADDLE IRON PIPE THREADED FORD FC-202 OR EQUAL.
(B) 2" RESILIENT SEATED GATE VALVE CLOW F61-03 MUELLER A-23-60-8 2" OPERATING NUT BOXED TO GRADE – C.I. BOX
(C) 2" POLYETHYLENE BLUE
(D) 2 1/2" SCH. 40
(E) 2" X 3" BRASS NIPPLE
(F) 2" MIP COUPLING C-84-77 – PACK JOINT – CTS

TYPICAL 1 1/2" AND 2" WATER SERVICE

ENGINEERING STANDARDS 2025

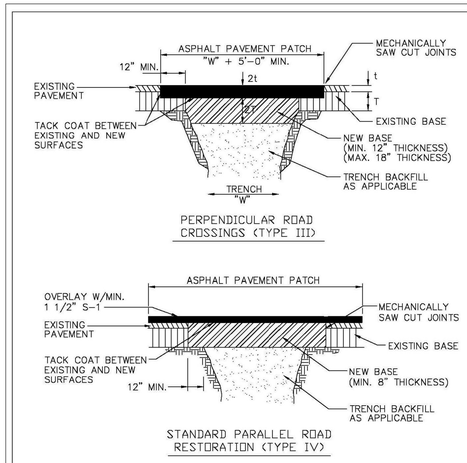
REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	TYPICAL 2" WATER SERVICE
S.S.	05-2011		
S.S.	05-2012		
S.S.	11-2018	SCALE: N.T.S.	DATE: APRIL 2022 DWG. NO. 107-2
A.S.	08-2021		



TYPICAL ROADWAY SECTION

ENGINEERING STANDARDS 2025

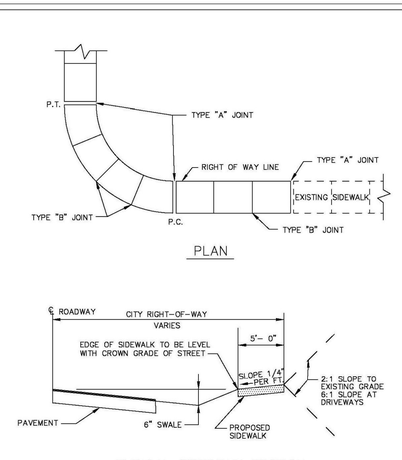
REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	TYPICAL ROADWAY SECTION
S.S.	JUNE 2005		
S.S.	JAN. 2018	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 305-1



SURFACE RESTORATION

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SURFACE RESTORATION
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 306-2



SIDEWALK DETAILS

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SIDEWALK DETAILS
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 301-1

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION

CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: STANDARD CITY DETAILS

PREPARED FOR: pompano beach — Florida's Warmest Welcome — CITY OF POMPANO BEACH, 1201 NE 5TH AVENUE, POMPANO BEACH, FLORIDA 33060

CERTIFICATION: WILLIAM T. SADLER JR. P.E. FLORIDA REGISTRATION NUMBER 41184 SEA DIVERSIFIED, INC. C.A. LICENSE NUMBER 25937

PREPARED BY: SEA DIVERSIFIED, INC. Surveying & Engineering Applications — 160 Congress Park Drive, Suite 114, Delray Beach, Florida 33445 — TEL: (561) 243-4920 — WWW.SEADIVERSIFIED.COM

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	M-2

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

Exhibit "A"

PROTECTION OF POTABLE WATER SUPPLY NOTES

A. GENERAL

IN ADDITION TO THESE REQUIREMENTS, ALL POTABLE WATER MAINS CONSTRUCTED IN THE VICINITY OF STORM SEWERS, SANITARY SEWERS OR FORCE MAINS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF FLORIDA ADMINISTRATIVE CODE CHAPTER 62-555, GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE SANITARY ENGINEERS (GLUMRB) "RECOMMENDED STANDARDS FOR WATER WORKS", AND GLUMRB "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES".

B. DEFINITIONS

FOR THE PURPOSES OF THIS SPECIFICATION, THE WORDS "OTHER PIPE" OR "OTHER PIPES" SHALL MEAN SANITARY SEWER MAIN, SEWAGE FORCE MAIN, STORMWATER MAIN OR ANY COMBINATION THEREOF.

C. CROSS CONNECTIONS PROHIBITED

THERE SHALL BE NO PHYSICAL CONNECTIONS BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND ANY OTHER PIPE OR APPURTENANCE THERETO WHICH WOULD PERMIT THE PASSAGE OF ANY WASTEWATER, POLLUTED WATER, OR ANY OTHER WATER INTO THE POTABLE SUPPLY. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR STORMWATER MANHOLE.

D. RELATION OF OTHER PIPES TO POTABLE WATER MAINS

1. HORIZONTAL SEPARATION

A. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM WATER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610,F.A.C.

B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY TYPE SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	GENERAL WATER SUPPLY NOTES	
	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO.	514-2

D. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM".

2. VERTICAL SEPARATION

A. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

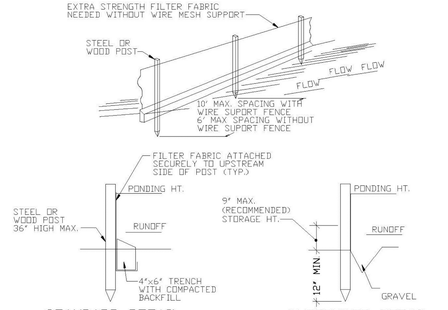
B. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES, ABOVE OR BELOW THE OUTSIDE THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

C. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING REUSE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING REUSE WATER NOT REGULATED UNDER PART III OR CHAPTER 62-610, F.A.C.

WHERE THE HORIZONTAL CAN BEING LOCATED LESS THAT THE REQUIRED MINIMUM DISTANCES FROM JOINTS IN THE OTHER PIPELINE OR THE HORIZONTAL IS LESS THAT THREE FEET FROM ANOTHER PIPELINE OR THE UNDER GROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE BETWEEN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR RECOMMENDED SOLUTIONS TO MEET THE FLORIDA OF DEPARMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS PER CHAPTER 62-555, F.A.C.

PROTECTION OF POTABLE WATER SUPPLY NOTES

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	GENERAL WATER SUPPLY NOTES	
	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO.	514-3



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

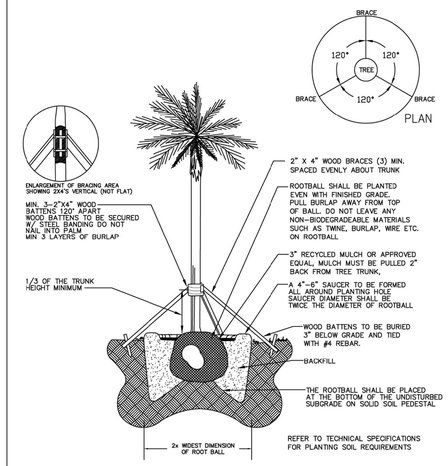
ALTERNATE DETAIL
TRENCH WITH GRAVEL

SILT FENCE

EROSION CONTROL GENERAL NOTES

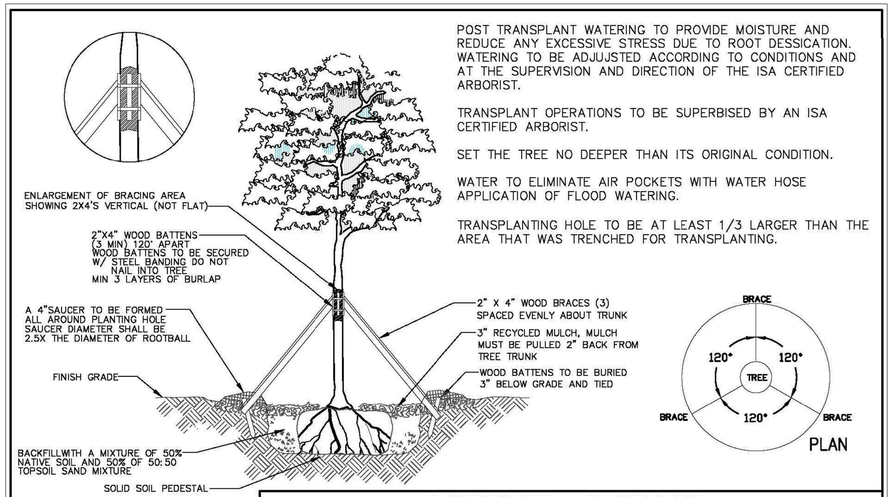
1. SILT FENCE AND TURBIDITY BARRIERS MUST REMAIN IN PLACE AND BE MAINTAINED AT ALL LOCATIONS SHOWN IN THE DRAWINGS UNTIL CONSTRUCTION ID COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN.
2. CPMTRACTOR SHALL SUBMIT SCHEDULE FOR THE INSTALLATION, INSPECTION AND MAINTENANCE THE EROSION CONTROLS FEATURES AS SHOWN IN THE DRAWINGS OR AS DIRECTED BY THE DESIGN ENGINEER. THE SCHEDULE SHALL SPECIFICALLY SHALL SPECIFICALLY INDICATE THE SEQUENCE OF CLEARING, EARTH WORK OPERATIONS, AND WHEN THE EROSION CONTROL FEATURE WILL BE INSTALLED, INSPECTED, AND MAINTAINED. IT SHALL ALSO INCLUDE METHODS TO PREVENT POLLUTION OF STREAM, LAKES, TIDAL WATERS, CANALS, AND IMPOUNDMENTS. ESTABLISHED.

ENGINEERING STANDARDS 2019			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SILT FENCE	
	SCALE: N.T.S.	DATE: MAY 2007 DWG. NO.	509-1



PALM PLANTING DETAIL

LANDSCAPE STANDARDS			
REVISIONS BY / DATE: TCW APRIL 2010; AS 01/2025	URBAN FORESTRY CITY OF POMPANO BEACH	PALM PLANTING DETAIL	
	SCALE: N.T.S.	APPROVED BY: URBAN FORESTER	DATE: JANUARY 2025 DWG. NO. 100-1



POST TRANSPLANT WATERING TO PROVIDE MOISTURE AND REDUCE ANY EXCESSIVE STRESS DUE TO ROOT DESSICATION. WATERING TO BE ADJUJSTED ACCORDING TO CONDITIONS AND AT THE SUPERVISION AND DIRECTION OF THE ISA CERTIFIED ARBORIST.

TRANSPLANT OPERATIONS TO BE SUPERBISED BY AN ISA CERTIFIED ARBORIST.

SET THE TREE NO DEEPER THAN ITS ORIGINAL CONDITION.

WATER TO ELIMINATE AIR POCKETS WITH WATER HOSE APPLICATION OF FLOOD WATERING.

TRANSPLANTING HOLE TO BE AT LEAST 1/3 LARGER THAN THE AREA THAT WAS TRENCHED FOR TRANSPLANTING.

REFER TO TECHNICAL SPECIFICATIONS FOR PLANTING SOIL REQUIREMENTS

LANDSCAPE STANDARDS			
REVISIONS BY / DATE: TCW APRIL2010	URBAN FORESTRY CITY OF POMPANO BEACH	TREE RELOCATION DETAIL	
	SCALE: N.T.S.	APPROVED BY: URBAN FORESTER	DATE: AUGUST 2010 DWG. NO. 106-1

TREE RELOCATION PROCEDURAL SPECIFICATION

Tree, Palm, Shrub and other Plant Transplanting/Relocating Detail – Recommended Notes:

The American National Standard for Tree Care Operations – Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices (Transplanting) ANSI A300(Part 6)–2005 must be adhered to in its entirety for all relocating/transplanting of trees and shrubs. ANSI A300 (Part 6)–2005 includes the following:

60– Transplanting Standards
61 – Normative References
62 – Definitions
63 – Transplanting Practices

The transplanting objectives shall be established prior to beginning the operation. These objectives may be presented in a report format for permitting purposes.

A feasibility and suitability assessment shall be conducted prior to recommending transplanting. Specifications for transplanting should be based on the assessment. See the Checklist in Annex A of ANSI A300 (Part6)–2005. This assessment may be presented in a report format for permitting purposes.

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: CITY STANDARD DETAILS

PREPARED FOR: pompano beach Florida's Warmest Welcome
CITY OF POMPANO BEACH 1201 NE 5TH AVENUE POMPANO BEACH, FLORIDA 33060

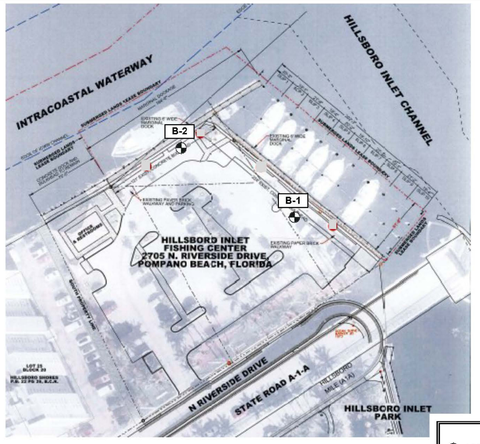
CERTIFICATION:
WILLIAM T. SADLER JR. P.E. FLORIDA REGISTRATION NUMBER 41184 FOR THE FIRM SEA DIVERSIFIED, INC. C.A. LICENSE NUMBER 26937

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	M-3

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990



- LEGEND -
APPROX. TEST LOCATION

NUTTING ENGINEERS OF FLORIDA, INC. ESTABLISHED 1967	Sea Diversified, Inc. **Hillsboro Inlet Fishing Center** 2705 N. Riverside Drive Pompano Beach, Florida PROJECT NO. 18786.5	APPROXIMATE TEST LOCATION PLAN	GEOTECHNICAL EXPLORATION *— Not to Scale —*	FIG. 1

GEOTECHNICAL INVESTIGATION CONDUCTED BY NUTTING ENGINEERS OF FLORIDA, INC. DATE OF GEOTECHNICAL ENGINEERING REPORT DECEMBER 2024. REFERENCE NUTTING ENGINEERS ORDER NUMBER 18786.5. DATA PRESENTED, HEREON, WAS EXTRACTED FROM THE NUTTING ENGINEERS GEOTECHNICAL ENGINEERING REPORT AND IS FOR INFORMATION PURPOSES ONLY. CONTRACTOR TO REFER TO THE ACTUAL UES ENGINEERING REPORT FOR DETAILED INFORMATION PERTAINING TO THE GEOTECHNICAL INVESTIGATION.

Nutting Engineers — 1310 Neptune Drive, Boynton Beach Fl., 33426, Telephone: 561-736-4900, Fax: 561-737-9975

BORING NUMBER B-1
PAGE 1 OF 2

PROJECT NUMBER 18786.5
CLIENT Sea Diversified, Inc. PROJECT NAME Hillsboro Inlet Fishing Center
PROJECT LOCATION 2705 N. Riverside Drive, Pompano Beach, Florida

DATE STARTED 12/17/24 COMPLETED 12/17/24 SURFACE ELEVATION REFERENCE Approx. @ Road Crown
DRILLING METHOD Standard Penetration Boring GROUND WATER LEVELS:
LOGGED BY T. Simmons CHECKED BY C. Owcarek ▽ AT TIME OF DRILLING 2.5 ft
APPROXIMATE LOCATION OF BORING As located on the approximate test location plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	▲ SPT N VALUE ▲ (10 20 30 40) PL MC LL (20 40 60 80) ☐ FINES CONTENT (%) ☐ (20 40 60 80)
0		ASPHALT 1.5", basecourse 8"				
		Brown fine SAND	SS 1	17-14-11-9	25	
		Tan fine SAND	SS 2	5-4-3-5	7	
5			SS 3	5-5-4-4	9	
		Gray fine SAND, little shell	SS 4	3-2-2-2	4	
		Gray to brown fine SAND, some root	SS 5	1-2-1-1	3	
		Gray fine SAND, trace root				
10						
15		Lt. brown fine SAND, trace root	SS 6	2-3-3-4	6	
		Gray fine SAND	SS 7	2-2-3-4	5	
20						
25		Lt. gray fine SAND, little sandstone fragments	SS 8	4-5-7-8	12	
30			SS 9	5-5-8-8	13	
35			SS 10	7-12-12-12	24	

(Continued Next Page)

Disclaimer Nutting Engineers of Florida, Inc. accepts no liability for the consequences of the independent interpretation of drilling logs by others.

Nutting Engineers — 1310 Neptune Drive, Boynton Beach Fl., 33426, Telephone: 561-736-4900, Fax: 561-737-9975

BORING NUMBER B-1
PAGE 2 OF 2

PROJECT NUMBER 18786.5
CLIENT Sea Diversified, Inc. PROJECT NAME Hillsboro Inlet Fishing Center
PROJECT LOCATION 2705 N. Riverside Drive, Pompano Beach, Florida

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	▲ SPT N VALUE ▲ (10 20 30 40) PL MC LL (20 40 60 80) ☐ FINES CONTENT (%) ☐ (20 40 60 80)
35		Lt. gray fine SAND, little sandstone fragments *(continued)*				
		Lt. gray SANDSTONE and SAND	SS 11	6-9-10-9	19	
40			SS 12	6-11-50/2"	100+	>>▲
		Bottom of hole at 44.2 feet.				

Disclaimer Nutting Engineers of Florida, Inc. accepts no liability for the consequences of the independent interpretation of drilling logs by others.

Nutting Engineers — 1310 Neptune Drive, Boynton Beach Fl., 33426, Telephone: 561-736-4900, Fax: 561-737-9975

BORING NUMBER B-2
PAGE 1 OF 2

PROJECT NUMBER 18786.5
CLIENT Sea Diversified, Inc. PROJECT NAME Hillsboro Inlet Fishing Center
PROJECT LOCATION 2705 N. Riverside Drive, Pompano Beach, Florida

DATE STARTED 12/17/24 COMPLETED 12/17/24 SURFACE ELEVATION REFERENCE Approx. @ Road Crown
DRILLING METHOD Standard Penetration Boring GROUND WATER LEVELS:
LOGGED BY T. Simmons CHECKED BY C. Owcarek ▽ AT TIME OF DRILLING 2.0 ft
APPROXIMATE LOCATION OF BORING As located on the approximate test location plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	▲ SPT N VALUE ▲ (10 20 30 40) PL MC LL (20 40 60 80) ☐ FINES CONTENT (%) ☐ (20 40 60 80)
0		ASPHALT 2", basecourse 10"				
		Gray to brown fine SAND, little limestone fragments, trace shell	AU 1			
			AU 2			
5		Tan fine SAND	SS 3	2-3-3-4	6	
		Lt. gray fine SAND	SS 4	3-2-2-7	4	
		Gray to brown fine SAND, little concrete fragments				
10		Gray to brown fine SAND and roots	SS 5	1-1-2-2	3	
		Gray fine SAND, little root				
		Gray fine SAND, some shell	SS 6	1-1-2-1	3	
15						
20		Lt. brown fine SAND, little root	SS 7	2-1-1-3	2	
25		Lt. gray fine SAND, little sandstone	SS 8	6-5-6-7	11	
30			SS 9	7-10-9-13	19	
35		Lt. gray fine SAND	SS 10	7-7-8-9	15	

(Continued Next Page)

Disclaimer Nutting Engineers of Florida, Inc. accepts no liability for the consequences of the independent interpretation of drilling logs by others.

Nutting Engineers — 1310 Neptune Drive, Boynton Beach Fl., 33426, Telephone: 561-736-4900, Fax: 561-737-9975

BORING NUMBER B-2
PAGE 2 OF 2

PROJECT NUMBER 18786.5
CLIENT Sea Diversified, Inc. PROJECT NAME Hillsboro Inlet Fishing Center
PROJECT LOCATION 2705 N. Riverside Drive, Pompano Beach, Florida

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	▲ SPT N VALUE ▲ (10 20 30 40) PL MC LL (20 40 60 80) ☐ FINES CONTENT (%) ☐ (20 40 60 80)
35		Lt. gray fine SAND *(continued)*				
		Gray fine SAND, little sandstone	SS 11	9-13-8-10	21	
40		Gray SANDSTONE, little sand	SS 12	10-5-1-3	6	
45			SS 13	19-50/5"	100+	>>▲
		Bottom of hole at 48.9 feet.				

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PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION**
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **GEOTECHNICAL**

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH, 100 NE 3RD AVENUE, POMPANO BEACH, FLORIDA 33060

CERTIFICATION: CERTIFIED GEOTECHNICAL REPORT BY UES OF ST. PETERSBURG, FLORIDA
WILLIAM T. SADLER JR., P.E., FLORIDA REGISTRATION NUMBER 42164, UES, 2900 1ST AVENUE N., ST. PETERSBURG, FL 33713, INC. C.A. LICENSE NUMBER 25937

PREPARED BY: **SEA DIVERSIFIED, INC.**
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114, Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	N.T.S.
SHEET:	G-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

TECHNICAL SPECIFICATIONS
Prepared by Sea Diversified, Inc.
Date:
Prepared to Accompany Plans prepared by Sea Diversified, Inc. dated June 2025.

ARTICLE 1 - PROJECT DESCRIPTION

1. The project includes the replacement of an existing concrete bulkhead a new steel sheetpile bulkhead with concrete king / batter piles and integral concrete cap. The project also includes the replacement of a 5' wide timber dock with a new 6'-6" wide pre-manufactured aluminum frame fixed dock supported by concrete piles. Aluminum frame fixed docks must be supplied by a qualified aluminum dock manufacturer, herein referred to as the MANUFACTURER, with demonstrated experience in the design and fabrication of aluminum frame marine structures of similar type to the project. The extent of the project is shown on plans prepared by Sea Diversified, Inc. (ENGINEER).

   The MANUFACTURER is responsible for the design, fabrication and delivery of fixed docks and associated dock components such as cleats, fendering and applicable hardware and installation components. The CONTRACTOR shall be responsible for the installation of the pre-manufactured aluminum frame structures including all support piling in accordance with MANUFACTURER supplied shop drawings and Installation Manuals. Plans and specifications prepared by the ENGINEER, as pertaining to the installation of pre-manufactured aluminum frame structures show the general extent of work. Installation of aluminum frame structures shall be in strict accordance with shop drawings, Installation Manuals and / or as dictated by the MANUFACTURER.

2. The CONTRACTOR is required to coordinate and cooperate with the MANUFACTURER, CITY staff and consultants pertaining to all components of the project including but not limited to product manufacturing delivery schedules, utility installations and project inspections. Additionally, the CONTRACTOR must note and understand that the project may be conducted while existing charter / dive boat activities are ongoing and such activities must be maintained with little or no disruption.

ARTICLE 2 - GENERAL NOTES

1. All elevations are in feet and referenced to the North American Vertical Datum of 1988 (NAVD 88) or Mean Low Water (MLW), as specifically noted on the plans.
2. Any deviation from these plans, notes or specifications must be approved in writing by the ENGINEER, or else the deviation will be considered construction not in compliance with the plans and specifications.
3. Any discrepancies among the plans, notes, specifications and other bid documents must be resolved in writing by the ENGINEER prior to continuing the work in question.
4. These plans, notes and specifications, along with the other components of the project documents, constitute the only instructions to the CONTRACTOR, unless written addenda are issued.
5. All construction, manufacturing, fabrication and testing of materials shall be performed under the guidelines set forth in applicable local, state and federal codes, and/or under recommendations provided in technical publications of respected professional or industry organizations. Material testing programs, where applicable, shall be presented to the ENGINEER for review and approval prior to construction.
6. All products constructed or manufactured/supplied for the project shall be accompanied by industry acceptable warranties or guarantees.
7. CONTRACTOR must attend a kick-off meeting with the ENGINEER, Representative(s) of the CITY, subcontractors, MANUFACTURER and others requested by the CITY to discuss critical items prior to commencing with construction.

ARTICLE 3 - MOBILIZATION AND DEMOBILIZATION

1. It is understood that the nature of the project will require work over water and access to construction areas are required for material storing, hauling, erection or construction. All facilities, public or private, used for such purposes shall be maintained and repaired to the original form after completion of project activities.
2. The CONTRACTOR shall present a Shipping, Stockpile and Administration Plan (SSAP) to the ENGINEER for approval. The plan shall be specific to the project requirements for the particular materials to be delivered to the site, describing delivery points, stockpile areas, temporary debris/trash storage areas, temporary field office (incl. utilities maintained there), fencing, security and a statement of commitment to maintaining safety on the site.
3. The CONTRACTOR shall note that the MANUFACTURER will have designated and pre-established areas for product delivery, storage, assembly and possibly manufacturing, all or in part. The CONTRACTORâ€™s staging plan must be prepared in coordination with the MANUFACTURERâ€™s staging plan to avoid conflicts during construction.
4. The CLIENT or ENGINEER shall have the right to exercise reasonable alterations or additions to the plan (SSAP).
5. The site surroundings shall be returned to original grade and topping (sod, tree cover, established road, etc.) following "Completion" of the project. "Completion" is defined as completion of an agreed upon list of punchlist items compiled in a planned project walkthrough held at a time the CONTRACTOR considers the project to be "Substantially Complete".
6. It is the CONTRACTOR's responsibility to coordinate, and pay for, necessary utilities to occupy the site and perform the work.

ARTICLE 4 - SITE MAINTENANCE AND SAFETY

1. The CONTRACTOR shall maintain a clean and neat site, void of loose debris, trash, remnant parts or materials.
2. Trash receptacles and removal service shall be maintained by the CONTRACTOR specifically for this project. Existing such facilities shall not be used to maintain the project.
3. Temporary debris piles shall be limited in number as much as practical and contained in designated areas until removal. Debris and trash shall not be scattered in areas outside the limited designated areas at any time.
4. Removal of debris/trash shall be scheduled as appropriate to not allow piles to reach five feet in height or greater than ten feet in diameter. Debris individually larger than these dimensions shall be removed from the site within five working days. Receptacles shall not be allowed to overflow at any time.
5. The CONTRACTOR shall prepare and submit a Maintenance of Traffic Plan that applies to vessels, vehicles and pedestrians. The plan must be in writing, including sketches or drawings, and must be submitted to the ENGINEER for review and approval before commencement of the plan.
6. The CONTRACTOR shall note that this project consists of work adjacent to a boat launch activities that will continue to operate and be open to the public to some extent during construction. The safety of pedestrians, vessel owners, CITY staff is of primary concern and must be addressed by the CONTRACTOR. The CONTRACTOR shall prepare a safety plan for approval by the ENGINEER and CITY.
7. Where applicable, CONTRACTOR to use steel/kevlar boots, long sleeve pants, gloves, hardhat, safety kit, etc.
8. CONTRACTOR to make note of nearest hospital and quickest route.
9. CONTRACTOR to assure availability of at least one working cell phone and one serviceable vehicle on site at all times.
10. The CONTRACTOR shall follow all applicable local, state and federal codes regarding site safety and maintenance.

ARTICLE 5 - ENVIRONMENTAL

1. A Florida Department of Environmental Protection (FDEP) Permit, U.S. Army Corps of Engineers (USACE) Permit and Broward County License exert jurisdiction of the project. The CONTRACTOR shall request all permits prior to the start of construction from the ENGINEER or the CITY and review prior to any construction activities.
2. The CONTRACTOR shall be responsible for complying with applicable restricting permit conditions imposed by the state, federal government and the County.
3. The CONTRACTOR shall pay particular attention to the standard state conditions for manatee protection during construction and shall comply with them fully.

ARTICLE 6 - GEOTECHNICAL

1. A geotechnical study has been conducted, the sub-surface investigation included two (2) Standard Penetration Test (SPT) borings at upland locations as near to the bulkhead as practically possible.
2. Should the CONTRACTOR encounter sub-surface soil conditions that differ from that described in the Geotechnical Report prepared by Nutting Engineers, dated December 2024, or from the results of the field test programs, the CONTRACTOR shall cease operations and promptly notify the ENGINEER.
3. The CONTRACTOR in coordination with the ENGINEER may be responsible for a test pile program to verify sub-surface soil characteristics related to pile driving characteristics. Details of the optional Test Pile Program are outlined, herein.
4. The CONTRACTOR shall note that the sub-surface soil conditions may vary throughout the project area and that piles are to be driven to achieve the required pile penetration dictated by the ENGINEER regardless of soil conditions. The CONTRACTOR must note that there is no provision for encountering unforeseen soil conditions.

ARTICLE 7 - CONSTRUCTION SURVEYING

1. The CONTRACTOR is responsible for horizontal / vertical control establishment, construction layout or any other survey effort required to complete the project. If requested by the CONTRACTOR, the ENGINEER will provide the CONTRACTOR existing site benchmark information for reference.
2. Method of continuing layout and control of work to be submitted to ENGINEER for approval prior to beginning construction.
3. The CONTRACTOR is advised that certification of the project elevation and alignment is required for final acceptance of work.
4. The CONTRACTOR will be required to provide a final â€œAsbuiltâ€ survey after construction. The survey must be conducted and certified by a State of Florida licensed Surveyor and Mapper.

ARTICLE 8 - CONSTRUCTION SEQUENCING AND HOURS OF OPERATION

1. The CONTRACTOR shall provide a schedule that details the proposed sequence of construction with estimated number of calendar days and milestones for major components of work. The ENGINEER shall be notified in advance of any intended changes to construction sequencing, required alterations to overall project schedules or deviations from projected milestone dates.
2. The CONTRACTOR shall note that the CITY may limit hours of operation and require the CONTRACTOR to schedule daily work activities as necessary to minimize disruption to the Fishing Center activities. Operations, including but not limited to pile driving, or other crane / large equipment related activities and activities that produce excessive noise, vibration, dust or other air quality impacts, may be limited to specific timeframes when working in proximity to certain facilities. The CONTRACTOR can work Monday through Friday, as typical, until 5:00 PM, noting that noise, vibration and air pollution must be controlled to minimize impact to the ongoing Fishing Center activities. The CONTRACTOR's bid shall take into account possible construction delays caused by temporary and partial suspensions of work relating to ongoing Fishing Center activities as noted in this paragraph.

ARTICLE 9 - DEMOLITION AND RESTORATION

1. The CONTRACTOR shall acquire all necessary building permits from the CITY prior to commencing work.
2. Demolition work shall be conducted in accordance with plans prepared by the ENGINEER.
3. Upon completion of construction, the site shall be restored by removing and finishing all evidence of construction including temporary haul roads, stockpile areas and all other areas used for construction.

ARTICLE 10 - FIXED ALUMINUM DOCK SYSTEMS

1. The size, geometry and location of fixed aluminum structures is as depicted on the plans. Fixed dock system shall include pre-manufactured dock frames with decking, utility troughs, cleats, fendering and installation hardware. The fixed dock system and all described components shall meet or exceed criteria specified or as indicated on the Drawings. Fixed docks shall be as manufactured by Golden Marine Systems (GMS), Marina Technologies, Inc. (MTI), or approved equal. Aluminum frames shall be heavy-duty, double track systems equivalent to the 950 Series supplied by GMS, Type D260 as supplied by MTI, or equal.
2. Aluminum frames shall be pre-fabricated and supplied in pre-determined sizes as described on the plans. Aluminum frames shall be delivered with decking unless otherwise specified by the MANUFACTURER.
3. Engineering Report: MANUFACTURER shall submit for approval design data for the fixed dock system. This shall be compiled in an Engineering Report that details the results of the fixed dock system analysis as outlined, herein. The Engineering Report shall be prepared and certified by a Licensed Professional Engineer registered in the State of Florida. Professional Engineers licensed in State(s) other than Florida must be approved in advance by the CITY. The Engineering Report and/or other required technical submittals, as outlined in the specifications, herein, must be provided within thirty (30) days of date of contract between CITY and CONTRACTOR, unless otherwise specified by the CITY. MANUFACTURER design data shall demonstrate that all items to be secured to the fixed dock system, either internal to the structural framing or above deck including all conduit and piping, electrical / potable water pedestals, fire standpipes and fire extinguisher cabinets, have been accounted for in the required system structural analysis.
4. Shop Drawings: The fixed docks shown in the plans shall be considered schematic in nature showing the dimensions and location of the docks in plan view. The MANUFACTURER shall provide final design details in a set of shop drawings addressing all pertinent fixed dock system specifications. Shop drawings shall be certified by a Licensed Professional Engineer registered in the State of Florida. Professional Engineers licensed in State(s) other than Florida must be approved in advance by the CITY. Certified shop drawings, pursuant to the specifications, herein, must be provided within thirty (30) days of date of contract between CITY and CONTRACTOR, unless otherwise specified by the CITY. Shop drawings shall depict the layout of all docks and be fully dimensioned. In addition, and at a minimum, shop drawings shall include the following:
   * Material type and grade, bolt sizes, welding, coatings, colors, and other product makes and models.
   * Material type of decking and attachment details.
   * Details of all utility routing and attachment.
   * Attachment details of all above deck permanent items.
   * Specifications including attachment details for cleats, fendering, cross members and ladders.
   * Location, specifications and layout of piling.
   * Shop drawings shall clearly specify the design criteria used by the MANUFACTURER's engineer for the design of the fixed dock system including but not limited to dead / live load criteria; maximum wind speed; storm surge; wave parameters; and current velocity. Design criteria shall indicate the criteria used for both occupied and unoccupied conditions.
5. General Design Parameters: The fixed dock system shall be designed to withstand the physical conditions and surroundings associated with the project site(s). It shall be the responsibility of the MANUFACTURER to evaluate the site conditions as relating to the design of the fixed dock system and to verify such factors as water depth, tidal current conditions, vessel traffic and boat wake, typical wind-driven wave conditions and characteristics of expected use of the proposed fixed docks on a day-to-day basis.

   The fixed dock system without boats in place (unoccupied) shall be designed to withstand forces from a Category 4 Hurricane and associated storm surge, wind and waves. The numerical values for surge, wind, wave height, wave period and wavelength shall be provided by the ENGINEER, however it shall be the responsibility of the MANUFACTURER's engineer to review and verify this information prior to commencing the system analysis. These numerical values will serve as a record for assessing performance of the fixed dock structures over the twenty-five (25) year minimum life expectancy of the system.
6. Design Loads: The engineering analysis shall take into consideration all storm loading conditions specified above, as well as dead loads and live loads. Live load design criteria shall be 100 psf.
7. Aluminum framing: Aluminum extrusions and other components shall be marine grade aluminum alloy 6061-T6.
8. All hardware shall be stainless steel type 316.
9. Decking shall be 1.25" x 5.5" Wear Deck" reinforced polymeric decking, Endeck PVC decking, or approved equal. Live load capacity of decking based on a maximum span of 16" shall be 125 psf. Decking shall have a slip and wear resistant surface. Additionally, the decking material shall be rot-and warp-resistant and splinter free. The decking material supplier must provide a standard 25-year warranty for the product. Decking shall be installed with stainless steel, type 316 screws, two (2) each at all stringer locations. Screws shall be countersunk.

ARTICLE 11 - CLEATS AND LADDERS

1. Cleats shall be cast-aluminum 18-inch, heavy-duty straight cleats or stainless steel 10-ton bollards as shown on the plans. Cleats and bollards shall be of the type and size to withstand the horizontal forces of the largest vessel to occupy the slip under the design parameters specified, herein. Number and location of cleats and bollards are depicted on the plans.
2. The MANUFACTURER shall provide aluminum ladders. Number and location of ladders shall be dictated by the CITY. Ladders shall have a minimum 250-lb capacity and be made of marine-grade, aluminum alloy, type 6061-T6 or 6063. No other metals or aluminum alloy types will be considered.

ARTICLE 12 - DELIVERY, HANDLING, STORAGE AND INSTALLATION

1. Delivery: The MANUFACTURER shall be responsible for delivery of the fixed dock structures and all other pre-manufactured products. The products shall be delivered as pre-assembled modules to facilitate offsite or onsite unloading and installation. The MANUFACTURER shall take all precautions to ensure that the products are not damaged during transport to the project site. The ENGINEER or CITY's representative will inspect the condition of the products upon arrival to the site. Damaged products shall be rejected and removed from the site at the expense of the CONTRACTOR or MANUFACTURER. All products shall be delivered with an Installation Manual including all necessary hardware for the assembly and installation of the systems. The installation manual shall include all instructions, drawings and part sheets necessary for the assembly and installation of the system.
2. Offloading, Deployment and Installation: All products shall be offloaded and either stored at a secure upland location or immediately installed by the CONTRACTOR as per the handling and installation specifications provided by the MANUFACTURER. The CONTRACTOR will be responsible for the installation of the products in accordance with MANUFACTURER supplied shop drawings, Installation Manuals and other technical information, as applicable.

   The MANUFACTURER will deliver the pre-manufactured products to the site or designated offsite staging area via truck. It will be the CONTRACTOR's responsibility to provide personnel and equipment to offload MANUFACTURER supplied products and install the systems as per the MANUFACTURER's approved shop drawings and pile specifications. The CONTRACTOR is responsible for any or all damage to the products during the offloading and installation processes. If not moved and installed immediately at the design location, the CONTRACTOR is responsible for storage of the products in such a manner to avoid damage. The CITY will not be responsible for damages caused by the handling or storage of the delivered products.
3. MANUFACTURER Representation: The MANUFACTURER shall provide a qualified representative onsite, as they deem necessary, during the offloading, assembly and installation of the products. The MANUFACTURER's representative shall be onsite during the installation of the systems to ensure that the product is handled and installed in strict compliance with the MANUFACTURER's shop drawings and Installation Manual. No less than two (2) site visits per month are anticipated by the MANUFACTURER's representative to inspect work completed by the CONTRACTOR and overall project progress. The CONTRACTOR shall be responsible for requesting additional support from the MANUFACTURER. The CONTRACTOR will be responsible for the costs of any special requests for onsite visits, meetings and inspections by the MANUFACTURER.
4. CONTRACTOR - MANUFACTURER Coordination: The CONTRACTOR is responsible for coordination with the MANUFACTURER regarding installation procedures and schedules. In advance of construction, the CONTRACTOR must request from the MANUFACTURER final certified shop drawings, installation manuals and other technical information, as necessary. The CONTRACTOR, in coordination with the MANUFACTURER, must prepare and submit a schedule for the installation of the products to the CITY for approval. It shall be the CONTRACTOR's responsibility to coordinate the installation schedule with the MANUFACTURER's delivery schedule at all times during construction. The CITY will NOT be responsible for any delays caused by the MANUFACTURER's delivery schedule as pertaining to the CONTRACTOR's installation schedule. Equally, the CITY will NOT be responsible for any delays caused by the CONTRACTOR that impacts the MANUFACTURER's fabrication, and delivery schedule. The MANUFACTURER will provide onsite representation during the product installation to assist, as necessary.

ARTICLE 13 - WARRANTY

1. The aluminum structures (Systems), including all structural and utility components, shall be designed for a minimum twenty-five year life expectancy. The deck, sidewalls, structure framing and other components of the Systems shall be delivered to the site free of cracks, corrosion, blemishes, broken or bent parts, uneven or non-fitting parts, missing or non-correct parts. A MANUFACTURER's Warranty shall be issued and go into effect upon acceptance by the CITY. The warranty shall be continuously effective for ten (10) years after acceptance. Subject to conditions at or below the specified design conditions, the warranty shall include, but not be limited to, the following items:
   * Repair or replacement of the product or components of the project due to failure or damage resulting from any or all conditions that fall within the design criteria outlined in the Specifications. This includes damages caused by live loads, wind, currents, waves, surge, vessel impact, storm and hurricane events. Components to be warranted include but are not limited to aluminum structural members or special extrusions (i.e. utility troughs), decking material, pile guides, cleats, fendering, handrails and hardware.
   * Repair or replacement of the product or components of the product due to deterioration caused by corrosion from typical marine environmental conditions.
   * Full repair or replacement cost including product manufacturing, system components, materials, hardware, taxes, shipping and handling and all required labor for removal of or repairs to damaged product and installation of new product. The MANUFACTURER may not devalue the product or components of the product based on years in service from the date of final product acceptance.
   * The warranty shall remain effective for the full ten (10) year term with no option by the MANUFACTURER to refund to the CITY the original purchase price, or devalued price based on number of years in service from the date of final product acceptance.
   * The Warranty must state that the CITY will be notified in advance of any discontinued parts or components of the dock system, especially proprietary parts or components, to allow sufficient time for the CITY to procure, through separate Purchase Order, such spare parts or components for stocking in case of need through the 10-Year term of the Warranty.

ARTICLE 14 - CONCRETE PILES AND PILE DRIVING (DOCK AND BATTER PILES)

1. All piles shall be 12" or 14" square prestressed concrete, minimum 6,000 psi, eight (8) prestressed strands, #5 spirals and three inches of clear concrete cover to the outside of the spirals in all sides meeting or exceeding FDOT standards for concrete piles to be driven in salt water conditions. The exposed side of the pile in forming shall be finished smooth and corners shall have 3/4" chamfer, or be rounded in the case of the typical FDOT piling. Final design and shop drawings shall be the responsibility of the CONTRACTOR, both of which must be reviewed by the ENGINEER. FDOT specification, with modifications or criteria above, is acceptable.
2. Piles shall be final designed and driven to meet the load rating necessary for each and the minimum penetration dictated by the ENGINEER. Piles shall be driven full length, or to a tip elevation where specified. It shall be the CONTRACTOR's responsibility to verify and guarantee that the specified pile bearing or lateral capacity is met. The CONTRACTOR's verification may be one of the following:
   * providing an equation, chart or table from the pile-driving hammer manufacturer relating bearing capacity to that particular hammer's "blows per foot".
   * performing a test pile program to the satisfaction of the ENGINEER.
   * providing a certified, engineered foundation design based on actual soil borings for the site.
3. The CONTRACTOR will be required to maintain a pile driving log to document the pile driving characteristics of all piles. Pile driving logs must be conducted by an independent engineering firm or geotechnical testing facility retained and paid for by the CONTRACTOR. The CONTRACTOR's bid shall include the cost of independent monitoring and preparation of field logs / reports pertaining to the installation of piles. Field logs and pile driving reports must be submitted to the CITY and/or ENGINEER on a daily basis or immediately following the installation of piles unless otherwise directed by the CITY. The pile driving logs shall include the following minimum information: date, time, weather conditions, equipment used, pile location designation, blows per foot over entire driving sequence, total length of pile, embedment length, un-cut top of pile, length of amount cut off, final elevation of top of pile (after driving and cut-off), amount of jetting or punching (if required), unusual pile behavior, damage and re-driving.
4. Jetting of piles is not permitted except only as necessary, and then must be approved by the ENGINEER prior to performing the jetting.
5. If solid rock, debris or refusal is encountered prior to achieving the minimum penetration, the CONTRACTOR shall use drilling equipment to achieve the required penetration dictated by the ENGINEER. Any deviation from the specified penetration due to sub-surface rock conditions must be approved by the ENGINEER.
6. Piles shall be handled and driven in a manner that does not damage the piles. Damaged piles must be removed, discarded and replaced at the CONTRACTOR's expense.

ARTICLE 15 - CONCRETE TEST PILE PROGRAM FOR COMPRESSION (AXIAL LOAD) - OPTIONAL:

1. At the discretion of the CITY in coordination with the ENGINEER, the CONTRACTOR shall perform a test pile program to determine the adequacy of the piles in compression. A minimum of two (2) test piles shall be placed in locations approved by the ENGINEER. An effort shall be made to evenly distribute the test piles over the site where production piles are required. Pile testing may be performed from the land or from a barge.
2. Test piles shall be of similar material, finish and size in cross-section to those in the design specifications, and of the same strength and number of strands. Test piles may be used as production piles if inspected and approved for use by the ENGINEER.
3. The ENGINEER may have specified pile lengths and embedment based on limited soils information. The ENGINEER will provide the design axial capacity for the test. The CONTRACTOR shall verify the bearing capacity of the test pile meets or exceeds the design value by one of the following methods:
   A. For a standard, drop-hammer type pile driver, use the Engineering News Record equation for calculating bearing capacity based on the average last five (5) blows per foot. Any other equations used must be supported with documentation approved by the ENGINEER.
   B. For piston or dynamic hammers not applicable with the Engineering News Record equation, use an equation or calibration chart as provided by the manufacturer of the hammer to relate bearing capacity to blows per foot.
   C. Install a test pile and load the pile in tension and/or compression to verify that it satisfies the design bearing capacity. A calibrated gauge must be used in conjunction with this method. If a test pile or the soil fails under an applied test load with an embedment less than specified in the plans, then the pile shall be removed, re-driven and re-tested at the CONTRACTOR's expense.
4. The CONTRACTOR shall be responsible for providing all materials and labor to perform the tests. The test program, equipment and subcontractors required shall be presented to the ENGINEER for review prior to scheduling and/or purchasing for the actual test. Access to the test area and allowance for independent measurements and gauge readings shall be allocated. The CONTRACTOR shall give at least 48 hours notice prior to performing the tests. Tests performed with shorter notice or without the CITY's third party observers present may be deemed invalid and non-billable by the CONTRACTOR.
5. If design bearing capacity is not reached at the specified tip elevation, then the test program shall be continued at greater depths under the direction of the ENGINEER and at extra cost to the CITY. If the initial two (2) test piles do not compare well in bearing capacity, then a third pile test shall be performed, at the CITY's expense, in a location directed by the ENGINEER. Test pile analyses shall continue until some correlation between results occurs or a conservative schedule of pile lengths can be determined from the data accumulated.

ARTICLE 16 - CONCRETE TEST PILE PROGRAM FOR LATERAL CAPACITY (HORIZONTAL LOAD)- OPTIONAL:

1. At the discretion of the CITY in coordination with the ENGINEER, the Contractor shall perform a test pile program to determine the adequacy of the piles under lateral loading. A minimum of two (2) test piles shall be placed in locations and to an embedment approved by the ENGINEER. An effort shall be made to evenly distribute test piles over the site where production piles are required. Pile testing may be performed from the land or from a barge. If the piling used in the axial test pile program are not significantly damaged, they may be used in the lateral load test program.
2. Test piles shall be of similar material, finish and size in cross-section to those in the design specifications, and must be of similar same strength and number of strands as it may desirable to re-use the test piles for production. The piling itself shall at least withstand the pile-driving operation without cracking or failing, typical chips around the pile head notwithstanding.
3. The Engineer may have specified pile lengths and embedment based on limited soils information. The ENGINEER will provide the design lateral capacity and allowable final lateral deflection for the test. The CONTRACTOR shall perform the lateral load test as follows:
   A. Using an approved lateral loading system with a scaled gauge device measuring the pull force, load the pile in 1,000 pound increments and measure the lateral deflection after three (3) minutes of achieving each increment.
   B. Each incremental load shall be completely unloaded with the "at rest deflection" recorded prior to applying the subsequent lateral load.
   C. Applying and releasing loads shall be performed in a slow and even manner at a point on the pile equal to the proposed elevation dictated by the ENGINEER.
   D. The final load shall be the even 1,000 pound increment beyond the lateral load requirement, and shall be held for six (6) minutes prior to recording the lateral deflection and release.
   E. The final "at rest deflection" shall be recorded.
   F. The pile shall be determined adequate if the final "at rest deflection" is less than the value determined to be acceptable for the project application.

ARTICLE 17 - CAP CONCRETE

1. All construction, manufacturing, fabrication and testing of materials shall be performed under the guidelines set forth in applicable local, state, and federal codes, and/or under recommendations provided in technical publications of respected professional or industry organizations. Material testing programs, where applicable, shall be presented to the ENGINEER for review and approval. All mix designs by the concrete supplier must be submitted to the ENGINEER for approval prior to submitting order.
2. All products constructed or manufactured/supplied for the project shall be accompanied by industry acceptable warranties or guarantees.
3. All concrete shall be of the same mix design as follows:
   A. Compressive Strength = 6000psi
   B. Water-cement ratio <= 0.40
   C. Air entrainment = 1.5% min.
   D. Potable water, no chlorides.
   E. Type I Cement
   F. 6% addition of microsilica per weight of binders.
   G. Apply Master Builders "Confilm", or equivalent immediately after finishing per manufacturer's specifications.
   H. Large and small aggregates washed and free of chlorides or reactive chemicals.
   I. Retarders or accelerators not allowed unless justified to the ENGINEER prior to their use.
4. Concrete cover from all exterior faces shall be 4" clear to outermost face of any reinforcement.
5. Continually wet water curing on all components. Begin water curing when the concrete has hardened to a point where a "knock" with the knuckles does not indent the surface. Water must be applied such that the entire exposed surface is saturated. Sprinklers or perforated hoses are common methods used for continuous water curing.
6. Curing compound applied uniformly and within one hour to formed sides after stripping forms.
7. Use non-metallic chairs and spacers in reinforcement placing, or for any other necessary in form attachments or alignments.
8. The final alignment of the concrete cap shall be straight and level per elevations and plans provided.
9. Concrete shall be continually cast in forms, fully filling forms as the casting progresses. No greater than 45 minutes may transpire between individual castings. Trucks may not sit on site for greater than 45 minutes. Delays in casting a given form greater than 45 minutes shall be rejected, unless an acceptable construction joint can be made. Concrete sitting for greater than 45 minutes in the truck on-site shall be rejected at the CONTRACTOR's expense.
10. The CONTRACTOR is solely responsible for integrity of forms. Formwork shall be rigid and remain in-place throughout the casting and curing process. Incomplete filling, or filling bottoms of, forms, to allow partial curing prior to completely filling forms is not acceptable.
11. A working concrete vibrator must be on-site prior to delivery of first concrete. The ENGINEER or ENGINEER's Representative shall not allow concrete to be cast otherwise.
12. Vibrate concrete fully, particularly at corners and edges, in a continuous vertical plunging motion, taking care not to hold the vibrator still at any time while in the concrete. Concrete with voids and/or honeycombing will be rejected.
13. Concrete materials testing shall be per acceptable ASTM methods and intervals. A materials testing program shall be prepared by the CONTRACTOR and/or Manufacturer for review and approval by the ENGINEER. As a minimum, four (4) test cylinders shall be cast for any given amount of concrete cast in a day. At the CONTRACTOR's expense, the cylinders shall be tested at 3, 7, 14 and 28 days to demonstrate compliance with the specified compressive strength.

ARTICLE 18 - VERTICAL JOINTS IN CAP - EXPANSION JOINTS (E.J.)

1. All expansion joints shall be full depth with no typical cap reinforcing passing through the joint. Longitudinal cap reinforcing shall stop 4 inches from the ends of the joint on each side.
2. The vertical joint gap shall be 1/2 inch uniformly over the entire cross-section. One suggested method to effect proper vertical and plane joints is to cast every other section of cap and cast the remaining sections after the first castings are set.
3. As noted on the plans there are two types of expansion joints. One type includes three (3), 30-inch long, 1 1#2" diameter, smooth, greased dowels shall be placed in the center of the joint cross-section. The dowels shall be at the approximate mid-cap height level, side-by-side, and equally spaced laterally across cap. The dowels shall not be within 1.5 inches of any cap reinforcing or other structural component. The other type of expansion joint does not include dowels extending across the joint.
4. The joint spacer shall be 1/2" neoprene, full cap width and height.

ARTICLE 19 - PILE CAPS

1. Pile Caps: Concrete dock piles along the ICWW side of the project shall have HDPE or fiberglass pile caps as supplied by Henderson Marine Supply, Inc., Petaluma, California, or approved equal. Color shall be white. Pile caps shall be constructed of high gloss, long lasting fiberglass with gelcote. Minimum wall thickness shall be 1/8".

ARTICLE 20 - STEEL SHEET PILING

1. The pile driving equipment shall be of the proper size and have the capacity to handle, place and hold the piles to the alignment shown on the Drawings. The equipment shall be maintained in a safe operating condition.
2. Prior to signing of the construction contract, the CONTRACTOR being considered shall have all major equipment items available for inspection. Any deficiencies in quality, quantity or type of equipment shall be corrected prior to commencing work and such correction shall be a required condition to properly fulfill the contract. This inspection and subsequent approval shall in no way relieve the CONTRACTOR from his obligation to provide all equipment required to properly perform the work. In addition, the equipment shall be as further specified in the following paragraphs.
3. Leads: The leads are to be made of steel and shall be held rigid either by being fastened to the pile-driving machine or by use of jigs or templates. In any case the leads shall be stiff enough to direct the hammer and pile to the plan alignment of the pile being driven. A follower will be permitted for driving the sheet piling. Details of the follower to be used shall be submitted to the ENGINEER for approval.
4. Sheet piles shall be driven using a low noise, high-frequency pile driving hammer with minimal or no vibration at start up and shut down to minimize vibration and disruption to surroundings. The CONTRACTOR shall verify site conditions and determine the type hammer to be used that will minimize impacts to upland structures and utility infrastructure. The CONTRACTOR will be held responsible for damage to upland structures, utility infrastructure, resort amenities, and other existing site features for improper selection of equipment or construction methodologies. The CONTRACTOR shall note that the CITY may monitor vibration during construction through independent contractor, at the expense of the CITY. Details of the vibration monitoring program will be provided to the CONTRACTOR prior to construction, as applicable.
5. The lower end of the hammer shall be fitted with an anvil base or bonnet that is built especially for holding the pile under the center of the hammer during driving operations.
6. Hammers shall be maintained in good operating condition and shall be operated at the manufacturer's rates number of blows per minute.
7. Steel Sheet Piling: Steel sheet piles shall conform to ASTM A572, or as indicated on Drawings. Sheet piles shall be of the continuous interlock type of the form and weight shown on the Drawings. All accessories and special make-up shall conform to ASTM A36.
8. Coating: Targuard (4.72) high build, polyamide epoxy coal tar coating as manufactured by Sherwin-Williams, or approved equal. The CONTRACTOR shall submit a coating specification for approval by the ENGINEER.
9. Piling shall be shop coated on each side with two coats of 8 mils each, in accordance with manufacturer's specifications. Coat both sides of the top 20 feet of the sheets. Prepare surface as per SSPC-10. Coating of sheets shall be sufficiently dried prior to shipping such that sheets do not adhere to each other upon separating in the field. Loss of coating due to separating "stuck" sheets shall be grounds for refusal of product.
10. All necessary demolition and excavation for pile clearance shall be completed before diving is commenced.
11. The location of any existing underground obstructions shall be referenced by indicator posts and these points shall be protected until all pile driving in the area has been completed.
12. No pile shall be driven within 10 feet of concrete which is less than four days old, unless so directed in writing by the ENGINEER.
13. Piles shall be carefully located to the lines indicated on the Drawings and shall be driven plumb. Extreme care shall be exercised in the locating and driving of piles so that other piles or existing utilities and structures will not be damaged in any way.
14. Each run of piling shall be driven progressively from the start and no pile shall be driven to a lower grade than those behind in the same run. When driving the sheet piling, no cutting edge shall lead its adjacent sheets by more than four feet.
15. The maximum permissible deviation from the indicated lines shall be not more than 2" on any 20 feet length of wall or a total of 6". No sheet pile in the finished wall shall be out of plumb more than 1" in 20 feet, or a total of 2". All sheet piles shall be driven to elevation shown on Drawings.
16. Execute welding with welders qualified in criteria set forth in applicable local, state and federal codes.
17. Welding electrodes shall be suitable for the steel and intended service.
18. Any pile so out of line or plumb that it exceeds the maximum permissible deviation shall be removed and re-driven, at the expense at the CONTRACTOR.
19. The pile driving procedure shall not subject the piles to excessive abuse causing damage. Any pile so damaged in handling or driving shall be replaced by a new pile, or otherwise corrected, as directed by the CITY's Designated Representative and at the expense of the CONTRACTOR.
20. Protection by Pile Head: The heads of sheet piles shall be protected during driving by a steel driving head provided with a steel block to receive the impact from the hammer. The head shall fit closely over the top of the pile and shall extend down at least four inches on the pile head.

ARTICLE 21 - HELICAL ANCHORS (ALTERNATIVE)

1. The extent of the helical tieback anchors are depicted on the plans. Helical tieback anchors shall be provided by A.B. CHANCE, or approved equal. The CONTRACTOR shall provide materials, tools, equipment, labor and supervision, and installation techniques necessary to install helical anchors as detailed on the plans, including connection details. This shall include provisions for load testing to verify tieback capacity and deflection as described, herein.
2. The helical anchor CONTRACTOR shall be experienced in performing design and construction of helical tieback anchors and shall furnish all materials, labor, and supervision to perform the work. The CONTRACTOR shall provide names of on-site personnel that will be involved with the work including supervisors, machine operators and project managers.
3. All helical tieback anchors shall be installed in the presence of the ENGINEER or designated representative of the CITY unless said representative informs the CONTRACTOR otherwise. The ENGINEER or designated representative shall have the right of access to any and all field installation records and test reports.
4. Helical tieback anchors shall be designed to meet the specified loads and acceptance criteria as depicted on the plans. The CONTRACTOR shall provide shop drawings, technical data and calculations for review and approval by the ENGINEER. Shop drawings at a minimum shall include:
   * Helical anchor number, location and pattern by assigned identification number
   * Helical anchor design load
   * Type and size of central steel shaft
   * Helix configuration (number and diameter of helix plates)
   * Minimum effective installation torque
   * Minimum overall length
   * Inclination of helical anchor
   * Type and size of thread bar

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
NOTES AND SPECIFICATIONS

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR., P.E.
FLORIDA REGISTRATION NUMBER 41184
FOR THE FIRM SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	N.T.S.
SHEET:	N-1

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990

5. The CONTRACTOR must demonstrate to the ENGINEER through testing and/or mutually agreed upon acceptance criteria that the production helical tiebacks meet or exceed the specified performance parameters.

6. Centerline of helical anchors shall not deviate more than six inches unless approved by the ENGINEER. Angular tolerance shall not deviate more than five degrees.

7. Helical anchor components shall be hot-dipped galvanized as per manufacturer recommendations to achieve a minimum service life of fifty years. The CONTRACTOR shall provide the coating specification for approval by the ENGINEER.

8. The CONTRACTOR shall be provided with a Geotechnical Report. The report shall be considered to be representative of the in-situ subsurface conditions likely to be encountered on the project site. The Geotechnical Report shall be the used as the basis for helical tieback anchor design using generally accepted engineering judgment and methods.

9. The Geotechnical Report shall be provided for purposes of bidding. If during helical tieback anchor installation, subsurface conditions of a type and location are encountered of a frequency that were not reported, inferred and/or expected at the time of preparation of the bid, the additional costs required to overcome such conditions shall be considered as extras to be paid for by the CITY.

10. The CONTRACTOR shall provide the ENGINEER copies of helical tieback anchor installation records within 24 hours after each installation is completed. Records shall be prepared in accordance with the manufacturer specifications and shall include at a minimum the following information:
    * Name of project and CONTRACTOR
    * Name of CONTRACTORâ€™s supervisor during installation
    * Date and time of installation
    * Name and model of installation equipment
    * Location of helical anchor by assigned identification number
    * Helical tieback anchor installation duration and observations
    * Total length and inclination of installed helical anchor
    * Actual helical tieback anchor type and configuration including lead/starter section, number and size of helix plates, number and type of extension sections
    * Notes pertaining to interruptions, obstructions, or other relevant information
    * Rated load capacities
    * Note that the CONTRACTOR shall provide a final report prepared by a Professional ENGINEER certifying the helical anchors met or exceeded the required load rating.

ARTICLE 22 - HELICAL ANCHOR TEST PROCEDURE

1. The CONTRACTOR shall submit plans for pre-production and production testing for the helical tieback anchors to the ENGINEER for review and acceptance prior to beginning load tests. Load tests shall be performed to verify the suitability and capacity of the proposed helical tieback anchor, and the proposed installation procedures prior to installation of production anchors. A minimum of two sacrificial test anchors shall be constructed immediately prior to the start of work on the production tieback anchors. The CITY shall determine the number of pre-production tests, their location, and acceptable load criteria.

2. Test procedures shall be performed to industry standards and in accordance to manufacturer specifications. Pre-production helical anchor installation methods, procedures, equipment, and overall length shall be identical to the production anchors to the extent practical.

3. Work shall not begin until all the submittals have been received and approved by the ENGINEER. The CONTRACTOR shall allow the CITY a reasonable time to review, comment, and return the submittal package after a complete set has been received.

4. The ENGINEER will provide performance and acceptance criteria prior to commencement of the test.

5. The CONTRACTOR shall provide the OWNER copies of field test reports within 24 hours after completion of the load tests. The test report, at a minimum shall include the following information:
    * Name of project and CONTRACTOR
    * Name of CONTRACTORâ€™s supervisor during test
    * Name of third party test agency, if required
    * Date, time and duration of the test
    * Name and model of test equipment
    * Description of calibrated testing equipment and test set-up
    * Location of helical anchor by assigned identification number
    * Total length and inclination of installed helical anchor
    * Helical tieback anchor type and configuration including lead/starter section, number and size of helix plates, number and type of extension sections
    * Notes pertaining to test procedure, equipment adjustments, or other relevant information
    * Load capacities achieved
    * Signed by third party test agency representative or registered professional engineer

ARTICLE 23 – TIMBER PILES

1. Timber piles shall be 12" minimum diameter (measured 36" from top of pile) Southern Yellow Pine (SYP), No. 1 dense grade with minimum 2.5 pcf CCA pressure treatment conforming to ASTM D25. Pressure treatment must be in accordance with AWPA C3 and C18. For bidding purposes pile length shall be forty (40) feet. Final pile length for construction shall be determined based on a Geotechnical Investigation or approved test pile program. If pile length is to be determined based on a test pile program, the CONTRACTOR is to submit proposed test pile to ENGINEER for approval prior to installation of production piles. Test pile program, if implemented as an alternate to soil borings, must be monitored by an independent geotechnical engineering firm in coordination with the ENGINEER.

2. Piles shall be final designed and driven to meet the load rating necessary for each and the minimum penetration dictated by the ENGINEER. Piles shall be driven full length, or to a tip elevation where specified. It shall be the CONTRACTOR's responsibility to verify and guarantee that the specified pile bearing or lateral capacity is met. The CONTRACTOR's verification may be one of the following:
    * providing an equation, chart or table from the pile-driving hammer manufacturer relating bearing capacity to that particular hammer's "blows per foot".
    * performing a test pile program to the satisfaction of the ENGINEER
    * providing a certified, engineered foundation design based on actual soil borings for the site.

3. The CONTRACTOR will be required to maintain a pile driving log to document the pile driving characteristics of all piles. Pile driving logs must be conducted by an independent engineering firm or geotechnical testing facility retained and paid for by the CONTRACTOR. The CONTRACTOR's bid shall include the cost of independent monitoring and preparation of field logs / reports pertaining to the installation of piles. Field logs and pile driving reports must be submitted to the CITY and/or ENGINEER on a daily basis or immediately following the installation of piles unless otherwise directed by the CITY. The pile driving logs shall include the following minimum information: date, time, weather conditions, equipment used, pile location designation, blows per foot over entire driving sequence, total length of pile, embedment length, un-cut top of pile, length of amount cut off, final elevation of top of pile (after driving and cut-off), amount of jetting or punching (if required), unusual pile behavior, damage and re-driving.

4. Jetting of piles is not permitted except only as necessary, and then must be approved by the ENGINEER prior to performing the jetting.

5. If solid rock, debris or refusal is encountered prior to achieving the minimum penetration, the CONTRACTOR shall use drilling equipment to achieve the required penetration dictated by the ENGINEER. Any deviation from the specified penetration due to sub-surface rock conditions must be approved by the ENGINEER. It is noted that the CONTRACTOR's means and methods for pile driving and the associated cost of pile driving included in the CONTRACTOR's Bid Schedule must anticipate the use of drilling equipment to penetrate rock to achieve minimum depths of penetration required by the ENGINEER.

6. Piles shall be handled and driven in a manner that does not damage the piles. Damaged piles must be removed, discarded and replaced at the CONTRACTOR's expense.

ARTICLE 24 – POTABLE WATER SYSTEM

1. The extent of the potable water system is shown on the drawings prepared by the ENGINEER. CONTRACTOR shall coordinate with the MANUFACTURER regarding the installation of the potable water system including details of the power centers with hose bibs and attachment details.

2. All plumbing work shall be conducted by a licensed Plumbing Contractor, registered in the State of Florida.

3. Drawings do not attempt to show exact details of all piping. Where diagrams have been made to show piping connections, CONTRACTOR is cautioned that these diagrams must not be used for obtaining material quantities. Changes in location of equipment or piping, advisable in the opinion of the CONTRACTOR, shall be submitted to the ENGINEER for review and approval before proceeding with the work. All measurements and dimensions shall be verified at the site.

4. CONTRACTOR shall be fully aware of the peculiarities and limitations of the space available for the installation of all materials in this Contract. In addition, the CONTRACTOR shall ensure that all equipment is readily accessible and provide access panels as required. The foregoing shall also apply in general to any part of the system that may be necessary to be accessed from time to time for maintenance and operation of the system.

5. CONTRACTOR shall install all piping, fixtures, equipment, and accessories in strict accordance with the laws, rules, and regulations of the State, County and Municipality, whichever represents the highest standard. All work shall be approved by the applicable Plumbing Code Inspector.

6. Hose bibs are components of marine power centers, light bollards or independent water pedestals as depicted on the plans. Marine power centers are of the type specified in ARTICLE 25. The extent of the potable water system is shown on the drawings prepared by the ENGINEER. CONTRACTOR shall coordinate with the MANUFACTURER regarding the installation of the potable water system including details of the power centers with hose bibs and attachment details.

7. All materials shall conform to the requirements of the Standard Building Code, ASA, ASTM, NBS, AWWA or other applicable standards.

8. Dielectric couplings shall be provided between ferrous and nonferrous materials, where applicable.

9. All pipe material shall be High Density Polyethylene, HDPE (Heat Fused), ASTM F-14.

10. HDPE pipelines including all valves and fittings shall be routed within utility chaseways, integral to the aluminum frame floating dock systems or as otherwise specified on MANUFACTURER approved shop drawings. Any strapping used to secure piping or valves to the dock systems including screws and other hardware shall be stainless steel, type 316. Plastic, galvanized coated steel or other type strapping and hardware is not acceptable.

11. Valves shall be installed at locations shown on the plans in a manner recommended by the MANUFACTURER and acceptable to the ENGINEER.

12. The CONTRACTOR shall coordinate with the ENGINEER regarding utility routing through existing bulkhead or rock revetment structures, as applicable.

13. The CONTRACTOR shall coordinate with the CITY regarding the location of connection to the existing potable water system

14. Pipeline Testing: Per plans and specifications prepared by the ENGINEER or as specified by the CITY.

ARTICLE 25 – ELECTRICAL SYSTEM

1. The extent of the electrical system is shown on the drawings prepared by the ELECTRICAL ENGINEER. CONTRACTOR shall refer to the electrical plans for power pedestal, lighting and other component locations and specifications including conduit / wiring schematics, distribution panel schedules and other details specific to the electrical and related components of the project. Additionally, the CONTRACTOR shall coordinate with the MANUFACTURER regarding the pipe routing installation of the electrical system.

2. All electrical work shall be conducted by a licensed Electrical Contractor, registered in the State of Florida.

3. Drawings do not attempt to show exact details of all electrical components. CONTRACTOR is cautioned that these diagrams must not be used for obtaining material quantities. Changes in location of equipment or conduit / cables, advisable in the opinion of the CONTRACTOR, shall be submitted to the ELECTRICAL ENGINEER for review and approval before proceeding with the work. All measurements and dimensions shall be verified at the site.

4. CONTRACTOR shall be fully aware of the peculiarities and limitations of the space available for the installation of all materials in this Contract. In addition, CONTRACTOR shall ensure that all equipment is readily accessible and provide access panels as required. The foregoing shall also apply in general to any part of the system that may be necessary to be accessed from time to time for maintenance and operation of the system.

5. Installation of electrical systems shall be performed to all applicable local, state and federal codes.

6. Marina power pedestals shall be stainless steel, type 316, with a UV-resistant powder coating. Color shall be white. Enclosures shall be UL listed as Type 3R weatherproof. Aluminum, fiberglass, plastic, composite or other types of power center enclosures are not acceptable. Power centers shall include 360 degree photocell-controlled LED lighting (color per OWNER), dual water ball valves with 3/4 inch hose bibs and stainless steel handles and 20A/125V GFI receptacles as depicted on the plans prepared by the ELECTRICAL ENGINEER. Marina power centers (types as per plans) shall be supplied by Marina Electrical Equipment (MEE), Eaton Corporation Marina Power and Lighting, Inc., or approved equal.

ARTICLE 26 – FIRE SYSTEM

1. The extent of the fire protection system is shown on the drawings prepared by the ENGINEER. It shall be the responsibility of the CONTRACTOR to confirm that the existing fire protection system at the facility meets or exceeds the requirements of the applicable local Fire Marshal. The CONTRACTOR shall coordinate with the MANUFACTURER regarding installation of the fire protection system.

2. All work pertaining to the fire protection system shall be conducted by a licensed Sprinkler Contractor, registered in the State of Florida.

3. Fire protection system final design and details, and their approval by the applicable CITY Fire Code Inspector, shall be the responsibility of the CONTRACTOR. Plans shall comply with the Florida Fire Protection Code, Latest Edition, NFPA 1 (Uniform) Fire Code, Latest Edition, NFPA 101, Life Safety Code, Latest Edition and all applicable local amendments or supplements to Florida Fire Protection Codes. Plans and installation shall comply with all applicable requirements of NFPA 13, NFPA 14 and NFPA 24.

4. CONTRACTOR shall install fire extinguisher cabinets at locations depicted on the plans. Relocation of fire extinguisher cabinets to other locations on the fixed and floating dock structures to facilitate the installation process is acceptable if complying with NFPA criteria. Fire extinguisher cabinets shall be stainless steel (316L), powder coated white, model “Firehouse” as manufactured by Marina Electrical Equipment (MEE), Eaton Corporation Marina Power and Lighting, Inc., or approved equal. Cabinets shall have a photocell-controlled light (color red), 20lb fire extinguisher and life ring. CONTRACTOR shall coordinate with the Electrical Contractor regarding the installation and electrical connection.

ARTICLE 27 - WARRANTY (UTILITY - FIRE SYSTEMS)

1. The utility components including but not limited to the fire extinguisher cabinets, marine power pedestals, distribution panels shall have a minimum five (5) year Warranty that goes in effect after acceptance of the product by the CITY. Subject to conditions at or below the specified design conditions, the warranty shall include, but not be limited to, the following items:
    * Repair or replacement of the product or components of the project due to failure or damage resulting from any or all conditions that fall within the design criteria outlined in the Specifications.
    * Repair or replacement of the product or components of the product due to deterioration caused by corrosion from typical marine environmental conditions.
    * Full repair or replacement cost including product manufacturing, system components, materials, hardware, taxes, shipping and handling and all required labor for removal of or repairs to damaged product and installation of new product. The Warranty shall not include a provision that allows for devaluation of the product or components of the product based on years in service from the date of final product acceptance.
    * The warranty shall remain effective for the full five (5) year term with no option by the supplier to refund to the CITY the original purchase price, or devalued price based on number of years in service from the date of final product acceptance.

ARTICLE 28 - FINAL INSPECTION AND PROJECT CERTIFICATION

1. The CONTRACTOR shall be required to coordinate final inspections for project certification by the ENGINEERS and/or other licensed engineers involved in the project. The CONTRACTOR shall anticipate coordinating inspections at time of substantial completion along with subsequent final inspections on a different date, after the CONTRACTOR has completed a final “Punchlist” of items, as necessary.

2. Upon completion of the project, the CONTRACTOR shall provide to the CITY a final asbuilt of all docks and utilities. Record Asbuilt drawings shall reflect any or all changes, modifications or additions to the approved shop drawings used for construction. Any changes to the shop drawings reflected on the Record Asbuilt drawings must be clearly highlighted. Record Asbuilt drawings must be certified by a Licensed Professional ENGINEER registered in the State of Florida.

END OF TECHNICAL SPECIFICATIONS

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

SCALE INDICATED BASED ON A PLOT SIZE OF 24" x 36"

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET FISHING CENTER BULKHEAD & MARGINAL DOCK RECONSTRUCTION
CITY OF POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
NOTES AND SPECIFICATIONS

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
WILLIAM T. SADLER JR., P.E.
FLORIDA REGISTRATION NUMBER 41184
FOR THE FIRM SEA DIVERSIFIED, INC.
C.A. LICENSE NUMBER 25937

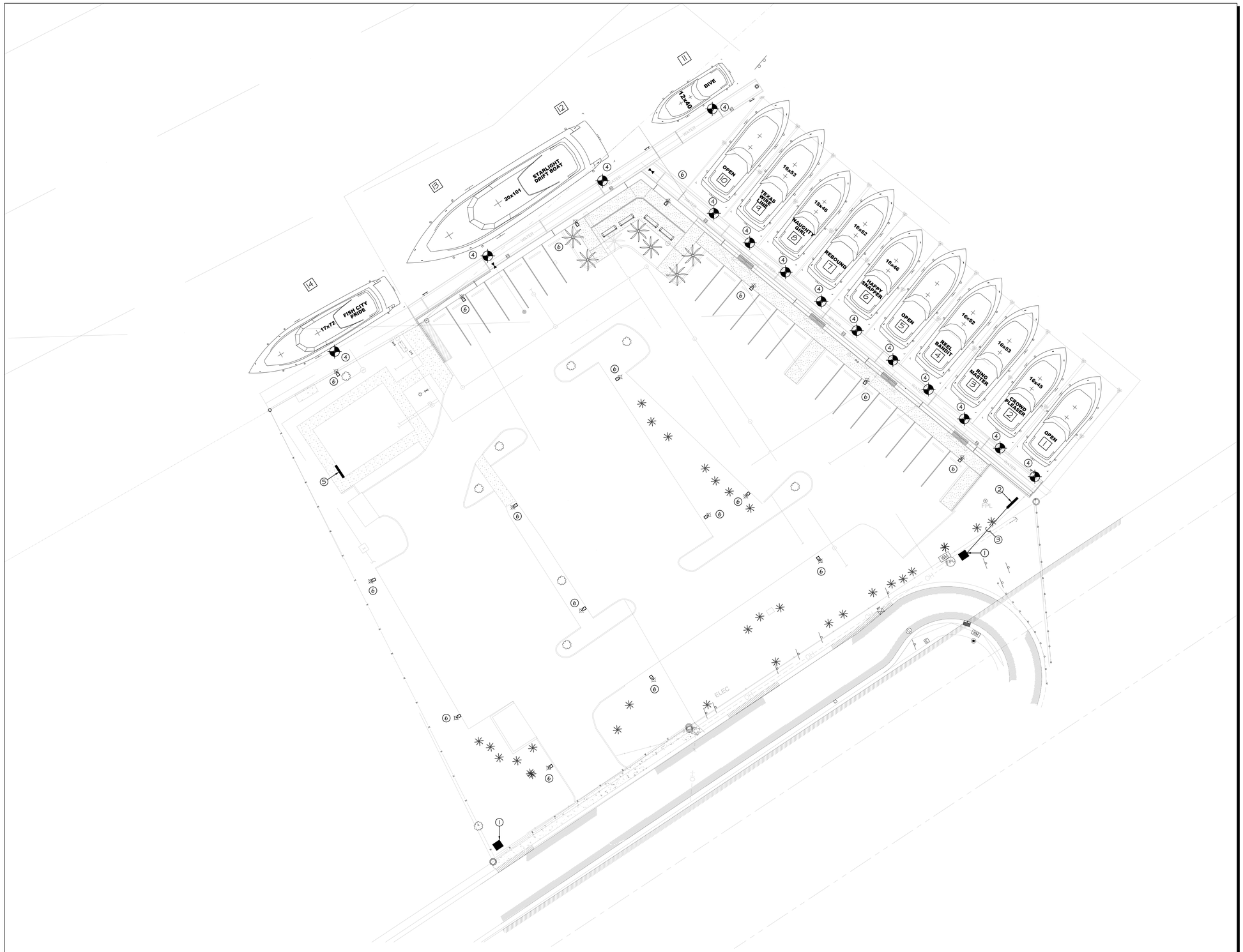
PREPARED BY:
SEA DIVERSIFIED, INC.
Surveying & Engineering Applications
160 Congress Park Drive, Suite 114
Delray Beach, Florida 33445
TEL: (561) 243-4920
WWW.SEADIVERSIFIED.COM
SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	N.T.S.
SHEET:	

N-2

CADD ID:
SHEET NO.:
TOTAL NUMBER OF SHEETS:

SDI P.N. 22-2990



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E-1

ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

NORTH

PLAN NOTES:

1. APPROXIMATE LOCATION OF EXISTING FP&L PAD MOUNT TRANSFORMER TO REMAIN. VERIFY EXACT LOCATION AND COORDINATE REQUIREMENTS WITH POWER COMPANY PRIOR TO ROUGH-IN.
2. APPROXIMATE LOCATION OF PROPOSED SERVICE RACK. SEE RISER DIAGRAM AND EQUIPMENT RACK DETAIL FOR ADDITIONAL INFORMATION. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. TWO 2"C-3#3/0. VERIFY EXACT ROUTING PRIOR TO ROUGH-IN.
4. APPROXIMATE LOCATION OF PROPOSED SHORE POWER PEDESTAL. SEE SCHEDULE AND RISER DIAGRAM FOR ADDITIONAL INFORMATION. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. (TYPICAL OF 14)
5. APPROXIMATE LOCATION OF EXISTING MAIN DISCONNECT AND TENANT METER CENTER FEEDING EXISTING SHORE POWER PEDESTALS TO BE REMOVED AND REPLACED. SEE RISER DIAGRAM FOR ADDITIONAL INFORMATION. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
6. EXISTING POLE MOUNTED SITE LIGHTING FIXTURE TO BE REPLACED. REMOVE EXISTING POLE AND FIXTURE. EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW FIXTURE AS REQUIRED. (TYPICAL OF 17)

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL FIRE CODES (NFPA), THE AMERICANS WITH DISABILITIES ACT (ADA), THE FLORIDA BUILDING CODE (FBC) AND ALL OTHER LOCAL CODES AND AMENDMENTS.
2. ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPEWRITTEN SCHEDULE SHOWING CIRCUIT NUMBERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT.
3. MINIMUM TRADE SIZE CONDUIT PERMITTED SHALL BE 1/2 INCH UNLESS NOTED OTHERWISE.
4. ALL CONDUCTOR METAL SHALL BE COPPER WITH 600 VOLT INSULATION TYPE THHN (MINIMUM SIZE SHALL BE #12AWG). CONTRACTOR SHALL ADJUST WIRE AND CONDUIT SIZES IF OTHER INSULATION TYPES ARE USED.
5. ALL PANELBOARDS, SWITCHES AND CIRCUIT BREAKERS SHALL BE MEE, ITE, SQUARE D, GE, OR CUTLER HAMMER.
6. ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING.
7. ALL EMPTY CONDUITS SHALL CONTAIN JET LINE #232 POLYOFIN 200 LB. TEST.
8. ALL WORK SHOWN ON THE ELECTRICAL PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

ELECTRICAL SYMBOL LEGEND:

AFCI	ARC FAULT CURRENT INTERRUPTER
GFI	GROUND FAULT INTERRUPT
OC	MOUNT DEVICE AT OVER COUNTER HEIGHT
WP	WEATHERPROOF
	EXHAUST FAN
	GROUND TYPE DUPLEX RECEPTACLE 120V. +18"AFF TO BOTTOM OF DEVICE.
$	S.P.S.T. SWITCH
	LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
A	LIGHT FIXTURE TYPE. SEE SCHEDULE.
X	PLAN NOTE
	120/240V PANELBOARD
	GROUND CONNECTION
	DISCONNECT SWITCH
	CONDUIT

SCOPE OF WORK:

THIS PROJECT CONSISTS OF THE UPGRADING OF THE EXISTING ELECTRICAL SERVICE FOR THE EXISTING BOAT SLIPS ALONG WITH NEW SHORE POWER PEDESTALS.

THE NEW SHORE POWER PEDESTALS WILL HAVE RECEPTACLES TO PROVIDE SHORE POWER LOADS FOR EACH VESSEL.

THE EXISTING SITE LIGHTING WILL BE REPLACED WITH NEW AMBER TURTLE FRIENDLY LED FIXTURES.

RONALD L.
LEVINSON, P.E.

530 S. Federal Hwy.
Suite No. 4
Lake Worth Beach
Florida 33460-4681

Ph: (561)379-5835
Fax: (561)582-3700
LevinsonPE@gmail.com

FL P.E. NO. 34871

This drawing has been electronically signed and sealed by Ronald L. Levinson P.E. on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RONALD L. LEVINSON
LICENSE
No. 34871
STATE OF FLORIDA
PROFESSIONAL ENGINEER

PROJECT:

Hillsboro Inlet Fishing Center

ELECTRICAL UPGRADES

2705 North Riverside Drive
Pompano Beach
Florida 33062

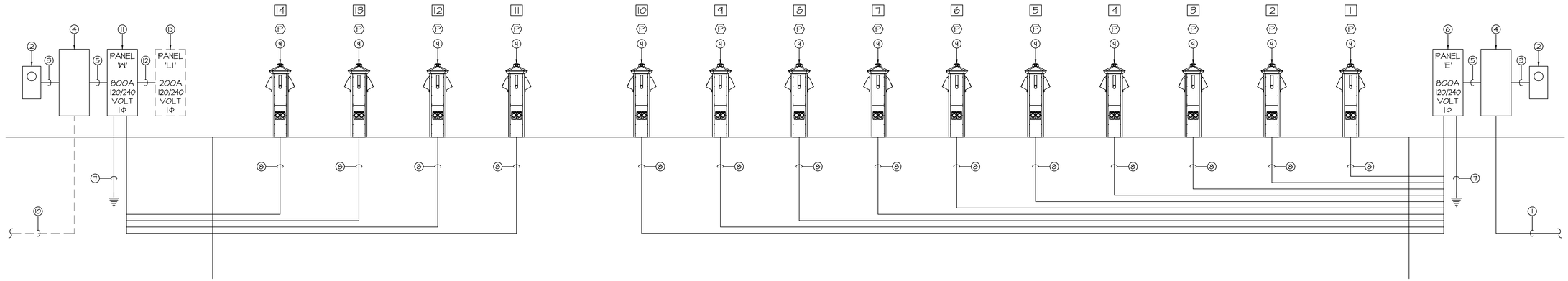
Date:	6-6-2025
Drawn By:	RLL
Checked By:	RLL
Project No.:	250411
Revised:	.
	.

SHEET NO. 1 of 4

E-1

PRELIMINARY
NOT FOR
CONSTRUCTION

Exhibit "A"



ELECTRICAL RISER DIAGRAM

1 / E-2

120/240 VOLT 1Ø SERVICE

SCALE: NONE

RONALD L. LEVINSON, P.E.

530 S. Federal Hwy.
Suite No. 4
Lake Worth Beach
Florida 33460-4681

Ph: (561)379-5835
Fax: (561)582-3700
LevinsonPE@gmail.com

FL P.E. NO. 34871

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RONALD L. LEVINSON PROFESSIONAL ENGINEER LICENSE No. 34871 STATE OF FLORIDA

PROJECT:

Hillsboro Inlet Fishing Center

ELECTRICAL UPGRADES

2705 North Riverside Drive
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Drawn By:	RLL
Checked By:	RLL
Project No.:	250411
Revised:	.
	.

SHEET NO. 2 of 4

E-2

PRELIMINARY NOT FOR CONSTRUCTION

PANELBOARD SCHEDULE — PANEL W

LOCATION: SEE SITE PLAN

BUS AMPS A	BUS AMPS B	LOAD	POLES	TRIP	CIRC.	BUS A	BUS B	CIRC.	TRIP	POLES	LOAD	BUS AMPS A	BUS AMPS B
80		SLIP 11	2	100	1			2	100	2	SLIP 12	80	
	80		-		3			4		-			80
80		SLIP 13	2	100	5			6	100	2	SLIP14	80	
	80		-		7			8		-			80
-		SPACE			9			10			SPACE	-	
	-	SPACE			11			12			SPACE		-
-		SPACE			13			14			SPACE	-	
	-	SPACE			15			16			SPACE		-
-		SPACE			17			18			SPACE	-	
	-	SPACE			19			20			SPACE		-
-		SPACE			21			22			SPACE	-	
	-	SPACE			23			24	20	2	SITE LIGHTING		10
-		SPACE			25			26		-		10	
150		PANEL 'O'	2	200	27			28	30	2	SURGE SUPPRESSION		1
	150		-		29			30		-		1	
					31			32					
					33			34					
					35			36					
					37			38					
					39			40					
					41			42					

RATED VOLTAGE: 120/240 VOLT 1 PHASE, 3 WIRE
RATING IS TO BE: ( )100 ( )225 (●)800 AMPS
(●)MAIN BREAKER 800 AMPS ( ) MAIN LUGS ONLY
BRANCH POLES: ( )12 ( )20 (●)30 ( )42
PANELBOARD IS TO BE: ( )FUSED (●)CIRCUIT BREAKER TYPE
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT CURRENT Isc = 22,000 AMPS, SYM RMS

FEED IS TO BE: (●)BOTTOM ( )TOP FROM: UTILITY VIA CT
GROUND BAR IS REQUIRED
NEUTRAL BUS IS TO BE: (●)FULL ( )DOUBLE SIZE
HINGED DOOR WITH KEYED LATCH (●)IS ( )IS NOT REQUIRED
NEMA 4X ENCLOSURE (●)IS ( )IS NOT REQUIRED

PANELBOARD SCHEDULE — PANEL E

LOCATION: SEE SITE PLAN

BUS AMPS A	BUS AMPS B	LOAD	POLES	TRIP	CIRC.	BUS A	BUS B	CIRC.	TRIP	POLES	LOAD	BUS AMPS A	BUS AMPS B
80		SLIP 1	2	100	1			2	100	2	SLIP 2	80	
	80		-		3			4		-			80
80		SLIP 3	2	100	5			6	100	2	SLIP 4	80	
	80		-		7			8		-			80
80		SLIP 5	2	100	9			10	100	2	SLIP 6	80	
	80		-		11			12		-			80
80		SLIP 7	2	100	13			14	100	2	SLIP 8	80	
	80		-		15			16		-			80
80		SLIP 9	2	100	17			18	100	2	SLIP 10	80	
	80		-		19			20		-			80
-		SPACE			21			22			SPACE	-	
	-	SPACE			23			24			SPACE		-
-		SPACE			25			26			SPACE	-	
	-	SPACE			27			28	30	2	SURGE SUPPRESSION		1
-		SPACE			29			30		-		1	
					31			32					
					33			34					
					35			36					
					37			38					
					39			40					
					41			42					

RATED VOLTAGE: 120/240 VOLT 1 PHASE, 3 WIRE
RATING IS TO BE: ( )100 ( )225 (●)800 AMPS
(●)MAIN BREAKER 800 AMPS ( ) MAIN LUGS ONLY
BRANCH POLES: ( )12 ( )20 (●)30 ( )42
PANELBOARD IS TO BE: ( )FUSED (●)CIRCUIT BREAKER TYPE
ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT CURRENT Isc = 22,000 AMPS, SYM RMS

FEED IS TO BE: (●)BOTTOM ( )TOP FROM: UTILITY VIA CT
GROUND BAR IS REQUIRED
NEUTRAL BUS IS TO BE: (●)FULL ( )DOUBLE SIZE
HINGED DOOR WITH KEYED LATCH (●)IS ( )IS NOT REQUIRED
NEMA 4X ENCLOSURE (●)IS ( )IS NOT REQUIRED

SHORE POWER PEDESTAL SCHEDULE:

TYPE	SYMBOL	SIDE	QUANTITY	AMPS	VOLTAGE	PHASE
(P)	⊕	A	2	30	120	1Φ
			2	50	120/240	1Φ
			1	20	120 GFCI	1Φ
		B	2	30	120	1Φ
			2	50	120/240	1Φ
			1	20	120 GFCI	1Φ

NOTES:
ALL PEDESTALS SHALL BE EQUAL TO: LIGHTHOUSE LH3050

ALL SHORE POWER RECEPTACLES SHALL BE PROVIDED WITH 30 mA GFCI PROTECTION.

ALL PEDESTALS SHALL BE PROVIDED WITH:

(1) 20 AMP 120 VOLT GFCI DUPLEX CONVENIENCE RECEPTACLE.
(1) PHOTOCELL CONTROLLED LED LIGHT FIXTURE.
(2) HOSE BIBS PER ACTIVE SLIP.
(2) HOSE/CABLE HOOKS.
(1) ELECTRIC SUB-METER PER ACTIVE SLIP.
(1) TVSS PROTECTION.

RISER NOTES:

1. THREE 3"C-3#300MCM TO FP&L. VERIFY EXACT ROUTING PRIOR TO ROUGH-IN.
2. CT METER. COORDINATE NEW SERVICE REQUIREMENTS WITH FP&L PRIOR TO ROUGH-IN.
3. 1-1/4"C FOR FP&L USE.
4. CT CAN. COORDINATE REQUIREMENTS WITH FP&L PRIOR TO ROUGH-IN.
5. THREE 3"C-3#300MCM.
6. PANEL 'E'. SEE PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.
7. 1#2/0G TO TWO 5/8" X 10' GROUND RODS 8' APART. GROUND AND BOND PER NEC ARTICLE 250.
8. SHORE POWER FEEDERS. SEE FEEDER SCHEDULE FOR ADDITIONAL INFORMATION.
9. PROPOSED SHORE POWER PEDESTAL. SEE RISER DIAGRAM AND SHORE POWER PEDESTAL SCHEDULE FOR ADDITIONAL INFORMATION. (TYPICAL OF 14)
10. EXISTING THREE 3"C-3#350MCM FROM FP&L TO REMAIN.
11. PANEL 'W'. SEE PANELBOARD SCHEDULE FOR ADDITIONAL INFORMATION.
12. 2"C-3#3/0,1#6G.
13. EXISTING PANEL 'L1' TO REMAIN.
14. ALL EXISTING ABANDONED EQUIPMENT SHALL BE REMOVED.

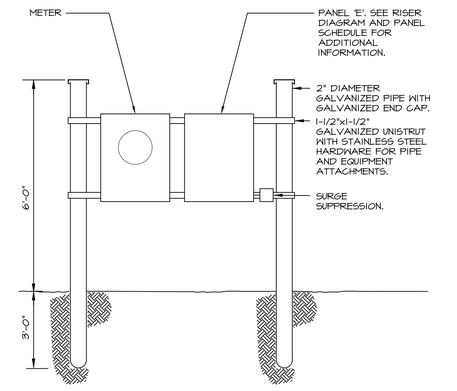
Feeder Schedule

Feeder #	Description	Breaker Size	Voltage	Receptacle Quanitity	Connected Load	Length	Min. Cir. Mils	Conduit Qty.	Conduit	Conductor	Grd.		Proposed Voltage Drop at Full Load
Panel 'E' 120/240V Single Phase													
E-1,3	Slip 1	100	120/240 - 1P	2	100	25	8,958	1	1-1/4"	3 - #3	#8	Single Phase Circuit	0.51%
E-5,7	Slip 3	100	120/240 - 1P	2	100	45	16,125	1	1-1/4"	3 - #3	#8	Single Phase Circuit	0.92%
E-9,11	Slip 5	100	120/240 - 1P	2	100	65	23,292	1	1-1/4"	3 - #3	#8	Single Phase Circuit	1.33%
E-13,15	Slip 7	100	120/240 - 1P	2	100	85	30,458	1	1-1/4"	3 - #3	#8	Single Phase Circuit	1.74%
E-17,19	Slip 9	100	120/240 - 1P	2	100	105	37,625	1	1-1/4"	3 - #3	#8	Single Phase Circuit	2.15%
E-2,4	Slip 2	100	120/240 - 1P	2	100	125	44,792	1	1-1/4"	3 - #3	#8	Single Phase Circuit	2.55%
E-6,8	Slip 4	100	120/240 - 1P	2	100	145	51,958	1	1-1/4"	3 - #3	#8	Single Phase Circuit	2.96%
E-10,12	Slip 6	100	120/240 - 1P	2	100	165	59,125	1	1-1/2"	3 - #2	#6	Single Phase Circuit	2.67%
E-14,16	Slip 8	100	120/240 - 1P	2	100	185	66,292	1	1-1/2"	3 - #2	#6	Single Phase Circuit	3.00%
E-18,20	Slip 10	100	120/240 - 1P	2	100	205	73,458	1	1-1/2"	3 - #1	#6	Single Phase Circuit	2.63%
70% per NEC 555.12				20	700								
90% per NEC 555.12 Note 2					630								
From FP&L	Panel 'E'	800	120/240 - 1P	20	630	50	169,313	3	2-1/2"	3 - #300MCM		Single Phase Circuit	0.38%
Panel 'E' 120/240V Single Phase													
W-1,3	Slip 1	100	120/240 - 1P	2	100	280	100,333	1	1-1/2"	3 - #1/0	#4	Single Phase Circuit	2.85%
W-5,7	Slip 3	100	120/240 - 1P	2	100	220	78,833	1	1-1/2"	3 - #1	#6	Single Phase Circuit	2.83%
W-2,4	Slip 5	100	120/240 - 1P	2	100	160	57,333	1	1-1/2"	3 - #2	#6	Single Phase Circuit	2.59%
W-6,8	Slip 7	100	120/240 - 1P	2	100	80	28,667	1	1-1/4"	3 - #3	#8	Single Phase Circuit	1.63%
90% per NEC 555.12				8	360								
90% per NEC 555.12 Note 2					324								
W-27,29	Office Panel	200	120/240 - 1P		120								
W-24,26	Site Lighting	20	240 - 1P		8								
From FP&L	Panel 'E'	800	120/240 - 1P	20	452	200	485,900	3	2-1/2"	3 - #300MCM		Single Phase Circuit	1.08%

ELECTRICAL LOAD CALCULATIONS:

		PANEL 'W'		PANEL 'E'
DOCK LOADS:				
TYPE A PEDESTALS				
QUANTITY OF TYPE A PEDESTALS	4			
QUANTITY OF 50 AMP 120/240 VOLT 1Φ RECEPTACLES	8			
50 AMP 120/240 VOLT 1Φ RECEPTACLES @ 12.0 KW EACH (2 PER SLIP)		96.0 KW		
TYPE A PEDESTALS				
QUANTITY OF TYPE A PEDESTALS			10	
QUANTITY OF 50 AMP 120/240 VOLT 1Φ RECEPTACLES			20	
50 AMP 120/240 VOLT 1Φ RECEPTACLES @ 12.0 KW EACH (2 PER SLIP)				240.0 KW
SUBTOTAL:	8	96.0 KW	20	240.0 KW
DEMAND FACTOR PER NEC 555.12		90 %		70 %
DERATED TOTAL:		86.4 KW		168.0 KW
DEMAND FACTOR PER NEC 555.12 NOTE 2		90 %		90 %
DERATED TOTAL:		77.8 KW		151.2 KW
OTHER LOADS:				
EXISTING OFFICE		28.8 KW		
PARKING LOT LIGHTING		2.0 KW		
TOTAL KW		108.6 KW		151.2 KW
TOTAL AMPS @ 120/240 VOLT 1Φ		452 AMPS		630 AMPS
RATING		800 AMPS		800 AMPS

NOTES:
1. DEMAND FACTOR PER NEC 555.12
2. DEMAND FACTOR FOR INDIVIDUAL METERS PER PER NEC 555.12.



2 / E-2

EQUIPMENT RACK DETAIL

SCALE: NONE

GROUNDING REQUIREMENTS:

PER NEC 555.13 PROVIDE MINIMUM #8 BONDING CONDUCTOR FROM THE SYSTEM GROUND CONNECTED TO ALL NON CURRENT-CARRYING METAL PARTS IN CONTACT WITH THE WATER THAT ARE LIKELY TO BECOME ENERGIZED.

PER NEC 555.35 (A) (3) PROVIDE GFPE PROTECTION NOT EXCEEDING 100MA FOR ALL FEEDERS AND BRANCH CIRCUITS.

SIGNAGE REQUIREMENTS:

PERMANENT SAFETY SIGNS SHALL BE INSTALLED TO GIVE NOTICE OF ELECTRICAL SHOCK HAZARD RISKS TO PERSONS USING OR SWIMMING NEAR THE DOCK PER NEC 555.10.

SIGNAGE SHALL COMPLY WITH ALL OF THE FOLLOWING:

(1) THE SIGNAGE SHALL COMPLY WITH 110.21(B)(1) AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT.

(2) THE SIGNS SHALL BE CLEARLY VISIBLE FROM ALL APPROACHES TO THE MARINA FACILITY.

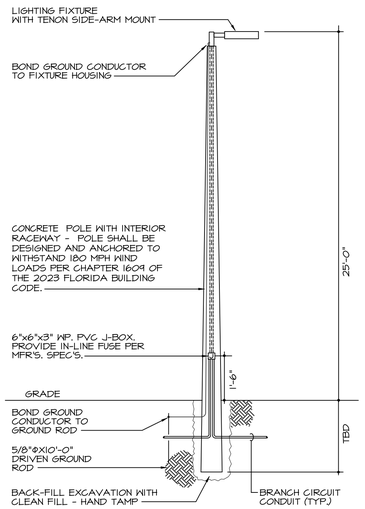
(3) THE SIGNS SHALL STATE: "WARNING - POTENTIAL SHOCK HAZARD - ELECTRICAL CURRENTS MAY BE PRESENT IN THE WATER".

GROUND FAULT PROTECTION NOTES:

1 - PROVIDE MAIN CIRCUIT BREAKERS WITH 100mA GFP DEVICE.

2 - PROVIDE ALL PEDESTAL FEEDER CIRCUITS WITH 100mA GROUND FAULT PROTECTION.

3 - PROVIDE ALL SHORE POWER RECEPTACLES WITH 30mA GROUND FAULT PROTECTION.



2 / E-3 POLE MOUNTED LIGHTING FIXTURE DETAIL

SCALE: NONE

NOTE:
MANUFACTURER SHALL PROVIDE WIND LOAD CALCULATIONS FOR POLE SIGNED AND SEALED BY FLORIDA LICENSED ENGINEER.

LUMINAIRE SCHEDULE:

TYPE	MANUFACTURER	DESCRIPTION	ARRANGEMENT	WATTS	LUMENS	MOUNTING	LLF	QTY
A	LITHONIA LIGHTING	DSXI-LED-P1-AMBLW-TFTM	SINGLE	79	4944	25' ABOVE GRADE ON NEW CONCRETE POLE	0.950	9
B	LITHONIA LIGHTING	DSXI-LED-P1-AMBLW-T3M	SINGLE	79	4463	25' ABOVE GRADE ON NEW CONCRETE POLE	0.950	3
C	LITHONIA LIGHTING	DSXI-LED-P1-AMBLW-T5M	SINGLE	79	4769	25' ABOVE GRADE ON NEW CONCRETE POLE	0.950	5

CALCULATION SUMMARY:

AREA NAME	UNITS	TYPE	SPACING	AVE	MAX	MIN	AVE/MIN	MAX/MIN
PARKING LOT	FC	ILLUMINANCE	8.00 FT	1.33	2.0	1.0	1.33	2.00
SPILL AT PROPERTY LINE	FC	ILLUMINANCE	10.00 FT	0.44	0.9	0.1	4.40	9.00

1 / E-3 SITE LIGHTING PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"

NORTH

RONALD L.
LEVINSON, P.E.

530 S. Federal Hwy.
Suite No. 4
Lake Worth Beach
Florida 33460-4681

Ph: (561)379-5835
Fax: (561)582-3700
LevinsonPE@gmail.com

FL P.E. NO. 34871

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PROJECT:

Hillsboro Inlet Fishing Center

ELECTRICAL UPGRADES

2705 North Riverside Drive
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SHEET NO. 3 of 4

E-3

PRELIMINARY
NOT FOR
CONSTRUCTION

Exhibit "A"

D-Series Size 1
Amber Series
LED Area Luminaire

NIGHTTIME FRIENDLY · BAA · BABA

d"series

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

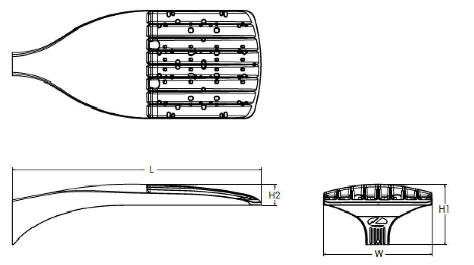
Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in Amber LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications.

Specifications

EPA:	0.69 ft² (0.06 m²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Ordering Information

EXAMPLE: DSX1 LED P7 AMBPC AMCRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature[2]	Color Rendering Index[2]	Distribution		Voltage	Mounting
DSX1 LED	**Forward optics** P1, P2, P3, P4, P5, P6, P7, P8, P9 **Rotated optics** P10[1], P11[1], P12[1]	AMBLW Limited wavelength amber; AMBPC Phosphor converted amber	AMCRI	AFR Automotive front row; T1S Type I short; T2M Type II medium; T3M Type III medium; T3LG Type III low glare[3]; T4M Type IV medium; T4LG Type IV low glare[3]; TFTM Forward throw medium	T5M Type V medium; T5LG Type V low glare; T5W Type V wide; BLC3 Type III backlight control[3]; BLC4 Type IV backlight control[3]; LCCO Left corner cutoff[3]; RCCO Right corner cutoff[3]	MVOLT (120V-277V)[4]; HVOLT (347V-480V)[5,6]; XVOLT (277V - 480V)[7,8]	**Shipped included** SPA Square pole mounting (#8 drilling); RPA Round pole mounting (#8 drilling); SPA5 Square pole mounting #5 drilling[9]; RPA5 Round pole mounting #5 drilling[9]; SPA8N Square narrow pole mounting #8 drilling; WBA Wall bracket[10]; MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options		Other options	Finish *(required)*
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.[11,12,20,21]; PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[13,20,21]; PER NEMA twist-lock receptacle only (controls ordered separate)[14]; PER5 Five-pin receptacle only (controls ordered separate)[14,21]	PER7 Seven-pin receptacle only (controls ordered separate)[14,21]; FAO Field adjustable output[15,21]; BL30 Bi-level switched dimming, 30%[16,21]; BL50 Bi-level switched dimming, 50%[16,21]; DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[17]; DS Dual switching[18,19,21]	**Shipped installed** SPD20KV 20KV surge protection; HS Houseside shield (black finish standard)[22]; L90 Left rotated optics[1]; R90 Right rotated optics[1]; CCE Coastal Construction[23]; **Shipped separately** EGSR External Glare Shield (reversible, field install required, matches housing finish); BSDB Bird Spikes (field install required)	DDBXD Dark Bronze; DBLXD Black; DNAXD Natural Aluminum; DWHXD White; DDBTXD Textured dark bronze; DBLBXD Textured black; DNATXD Textured natural aluminum; DWHGXD Textured white

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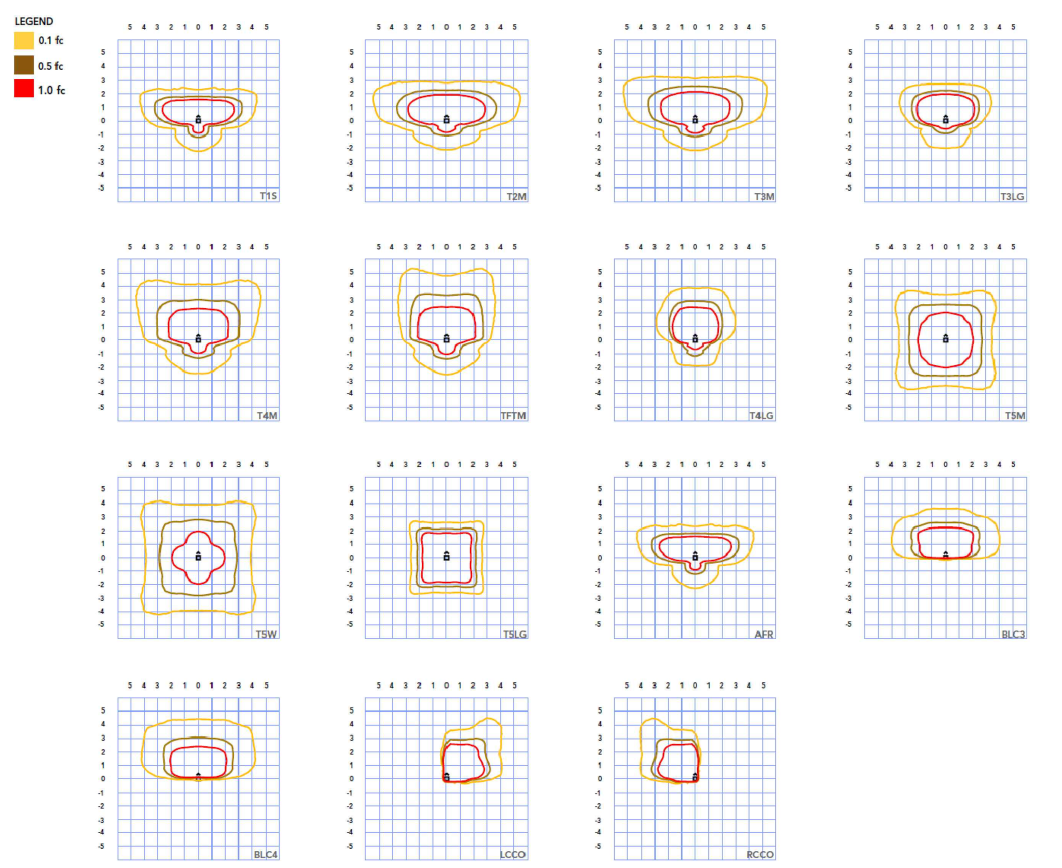
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

Isofootcandle plots for the DSX1 LED P9 AMBPC AMCRI. Distances are in units of mounting height (20').



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Performance Data

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load - AMBPC (Phospher Converted Amber)

	Peformance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	52	0.43	0.25	0.22	0.19	0.15	0.11
	P2	30	700	69	0.58	0.33	0.29	0.25	0.20	0.14
	P3	30	1050	105	0.88	0.51	0.44	0.38	0.30	0.22
	P4	40	530	69	0.58	0.33	0.29	0.25	0.20	0.14
	P5	40	700	92	0.77	0.44	0.38	0.33	0.27	0.19
	P6	40	1050	140	1.17	0.67	0.58	0.51	0.40	0.29
	P7	60	530	103	0.86	0.50	0.43	0.37	0.30	0.22
	P8	60	700	138	1.15	0.66	0.57	0.50	0.40	0.29
	P9	60	1050	210	1.75	1.01	0.88	0.76	0.61	0.44
Rotated Optics (Requires L90 or R90)	P10	60	530	103	0.86	0.50	0.43	0.37	0.30	0.22
	P11	60	700	138	1.15	0.66	0.58	0.50	0.40	0.29
	P12	60	1050	210	1.75	1.01	0.88	0.76	0.61	0.44

Electrical Load - AMBLW (Limited Wavelength Amber)

	Peformance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	41	0.34	0.20	0.17	0.15	0.12	0.08
	P4	40	530	55	0.46	0.26	0.23	0.20	0.16	0.11
	P7	60	530	81	0.68	0.39	0.34	0.29	0.23	0.17
Rotated Optics (Requires L90 or R90)	P10	60	530	81	0.68	0.39	0.34	0.29	0.23	0.17

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photototcell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

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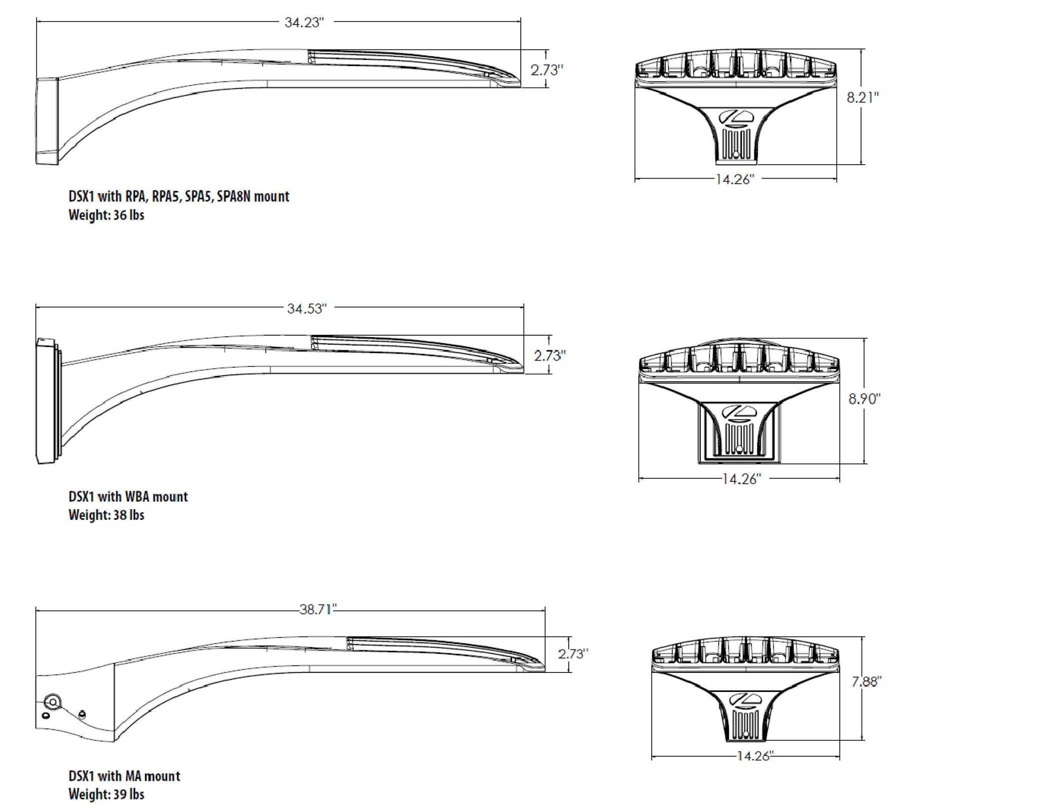
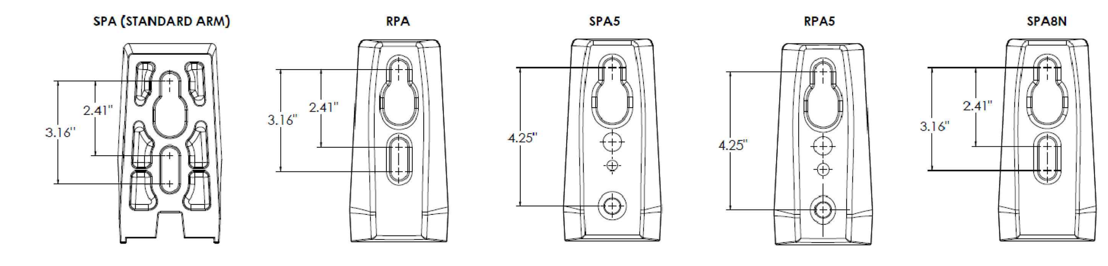
Dimensions





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Ordering Information

Accessories

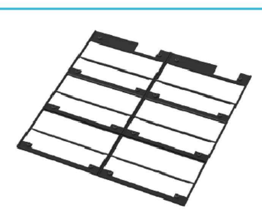
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V)[24]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V)[24]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V)[24]
DSHORT SBK	Shorting cap[24]
DSX1HS P#	House-side shield (enter package number 1-12 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES
1. Rotated optics available with packages P10, P11 and P12. Must be combined with option L90 or R90.
2. AMBLW only available in package P1, P4, P7 and P10. AMCRI must be specified with AMBLW or AMBPC.
3. T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5. HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6. HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7. XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8. XVOLT not available in packages P1 or P10.
9. SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10. WBA cannot be combined with Type 5 distributions plus photocell (PER).
11. NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this link
12. NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
13. PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
14. PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15. FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
16. BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS.
17. DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
18. DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
19. DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11 and P12.
20. Reference Motion Sensor Default Settings table on page 4 to see functionality.
21. Reference Controls Options table on page 4.
22. HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
23. CCE option not available with option BSDB and EGSR. Contact Technical Support for availability.
24. Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.

Shield Accessories

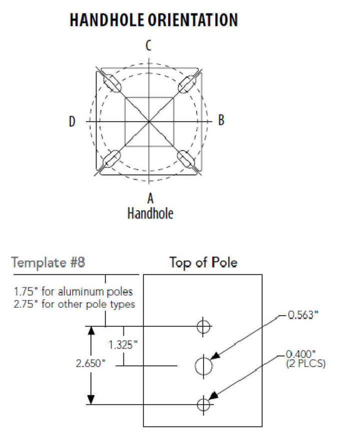
External Glare Shield (EGSR)



House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

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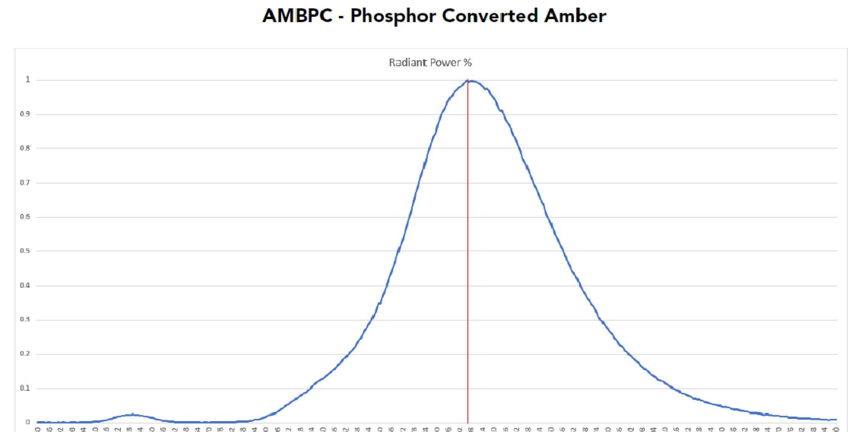
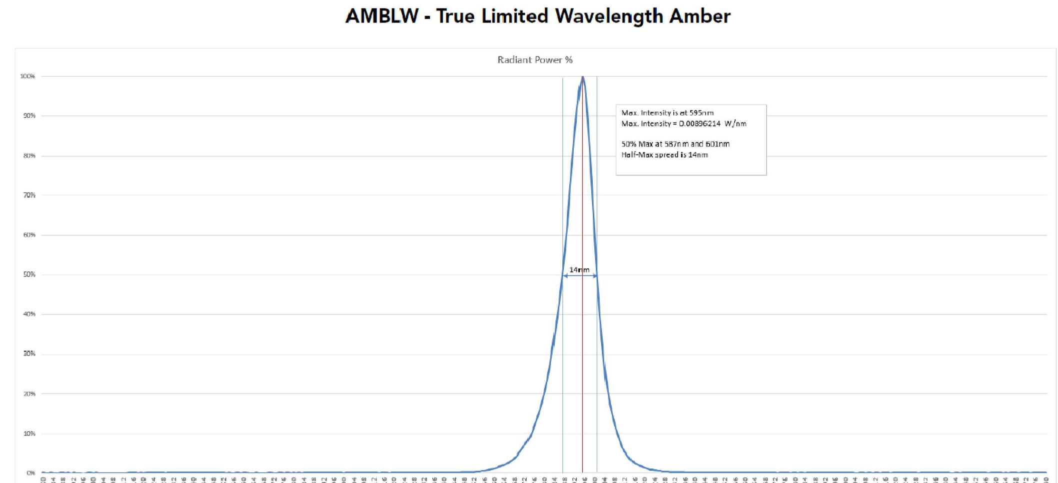
Photometric Diagrams

AMBPC - Phosphor Converted Amber



AMBLW - True Limited Wavelength Amber



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Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

FORWARD OPTICS

Performance Package	LED Count	Drive Current (mA)	Distribution Type	AMBPC (Phosphor Converted) System Watts	Lumens	B	U	G	LPW	AMBLW (Limited Wavelength) System Watts	Lumens	B	U	G	LPW
P7	60	530	T1S	103W	9,284	1	0	2	90	81W	3,529	1	0	1	43
			T2M		8,601	2	0	3	83		3,269	1	0	2	40
			T3M		8,700	2	0	3	84		3,307	1	0	2	41
			T3LG		7,772	1	0	2	75		2,954	1	0	1	36
			T4M		8,830	2	0	3	85		3,357	1	0	2	41
			T4LG		8,031	1	2	2	78		3,053	1	1	1	38
			TFTM		8,830	2	0	3	85		3,380	1	0	2	42
			T5M		9,085	4	0	2	88		3,453	2	0	1	42
			T5W		9,232	4	0	2	89		3,509	3	0	1	43
			T5LG		9,111	3	0	1	88		3,463	2	0	0	43
			BLC3		6,328	0	0	2	61		2,406	0	0	1	30
			BLC4		6,536	0	0	3	63		2,485	0	0	2	31
			RCCO		6,385	1	0	2	62		2,427	0	0	1	30
			LCCO		6,385	1	0	2	62		2,427	0	0	1	30
			AFR		9,284	1	0	2	90		3,529	1	0	1	43
P8	60	700	T1S	138W	11,650	1	0	2	84						
			T2M		10,792	2	0	3	78						
			T3M		10,917	2	0	3	79						
			T3LG		9,752	1	0	2	71						
			T4M		11,080	2	0	3	80						
			T4LG		10,077	1	2	2	73						
			TFTM		11,156	2	0	3	81						
			T5M		11,400	4	0	2	83						
			T5W		11,584	4	0	3	84						
			T5LG		11,433	3	0	1	83						
			BLC3		7,941	0	0	2	58						
			BLC4		8,201	0	0	3	59						
			RCCO		8,012	1	0	2	58						
			LCCO		8,012	1	0	2	58						
			AFR		11,650	1	0	2	84						
P9	60	1050	T1S	210W	15,577	2	0	2	74						
			T2M		14,429	2	0	3	69						
			T3M		14,597	2	0	4	69						
			T3LG		13,039	2	0	2	62						
			T4M		14,814	2	0	4	71						
			T4LG		13,474	2	0	2	64						
			TFTM		14,917	2	0	4	71						
			T5M		15,242	4	0	2	73						
			T5W		15,489	5	0	3	74						
			T5LG		15,286	3	0	2	73						
			BLC3		10,617	0	0	2	51						
			BLC4		10,966	0	0	3	52						
			RCCO		10,713	1	0	2	51						
			LCCO		10,713	1	0	2	51						
			AFR		15,577	2	0	2	74						

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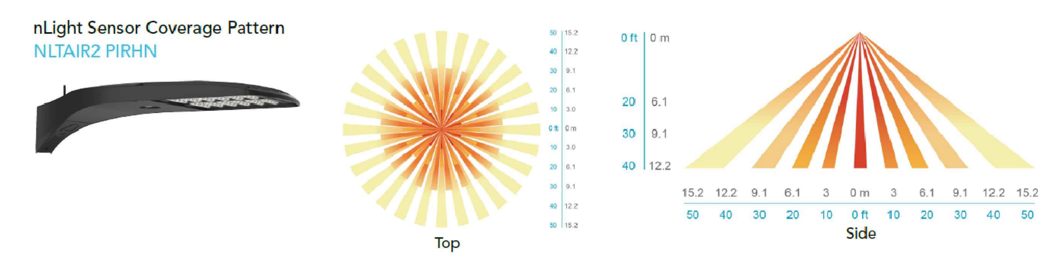
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



FEATURES & SPECIFICATIONS

INTENDED USE
The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION
Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft²) for optimized pole wind loading.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

Coastal Construction (CCE)
Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS
Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine configurations consist of amber LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life. Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS
The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS
The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION
Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS
UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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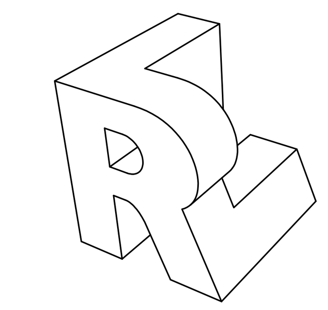
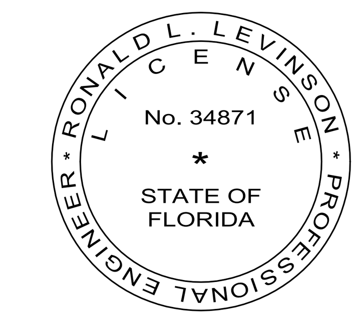
RONALD L. LEVINSON, P.E.
530 S. Federal Hwy.
Suite No. 4
Lake Worth Beach
Florida 33460-4681
Ph: (561)379-5835
Fax: (561)582-3700
LevinsonPE@gmail.com

FL P.E. NO. 34871



This drawing has been electronically signed and sealed by Ronald L. Levinson P.E. on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



PROJECT:

Hillsboro Inlet Fishing Center

ELECTRICAL UPGRADES

2705 North Riverside Drive
Pompano Beach
Florida 33062

Date:	6-6-2025
Drawn By:	RLL
Checked By:	RLL
Project No.:	250411
Revised:	.
	.

SHEET NO. 4 of 4

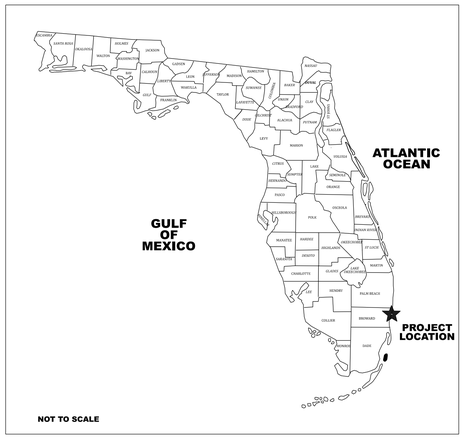
E-4

PRELIMINARY NOT FOR CONSTRUCTION

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

HILLSBORO INLET PARK (A.K.A ROY ROGERS PARK) BULKHEAD, DOCK & PROMENADE IMPROVEMENTS

CITY OF POMPANO BEACH
BROWARD COUNTY, FLORIDA
JUNE 2025



LOCATION MAP OF FLORIDA

AERIAL PHOTOGRAPH

VICINITY MAP

PREPARED BY:

SEA DIVERSIFIED

SEA DIVERSIFIED, INC.
160 CONGRESS PARK DRIVE, #114
DELRAY BEACH, FLORIDA 33445
PH 561-243-4920

PREPARED FOR:

pompano beach
Florida's Warmest Welcome

CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

REX HARDIN	MAYOR AT LARGE
ALISON FOURNIER	VICE MAYOR, DISTRICT 3
AUDREY FESIK	COMMISSIONER, DISTRICT 1
RHONDA SIGERSON-EATON	COMMISSIONER, DISTRICT 2
BEVERLY PERKINS	COMMISSIONER, DISTRICT 4
DARLENE SMITH	COMMISSIONER, DISTRICT 5

SHEET INDEX

SHEET NO.	SHEET TITLE
C-1	COVER SHEET
A-1	AERIAL
A-2	AERIAL PROJECT OVERLAY
B-1	BATHYMETRY
P-1	SITE PLAN
P-2	PLAN DETAIL SOUTH
P-3	PLAN DETAIL NORTH
BH-1	BULKHEAD PLAN SOUTH
BH-2	BULKHEAD PLAN NORTH
D-1	MARGINAL DOCK & PIER PILE LAYOUT
D-2	MARGINAL DOCK & PIER ALUMINUM FRAME LAYOUT
S-1	TYPICAL SECTION DETAILS
S-2	TYPICAL SECTION DETAILS
S-3	TYPICAL SECTION DETAILS
S-4	TYPICAL SECTION & BULKHEAD CAP DETAILS
S-5	TYPICAL DOCK & PIER DETAILS
M-1	STANDARD DETAILS
M-2	CITY STANDARD DETAILS
U-1	LIGHTING, WATER & FIRE
L-1	LANDSCAPE PLAN
N-1	NOTES & SPECIFICATIONS
E-1	ELECTRICAL UPGRADES PLAN (RONALD L. LEVINSON, P.E.)
E-2	ELECTRICAL UPGRADES PLAN (RONALD L. LEVINSON, P.E.)

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: COVER

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler Jr. P.E.
Florida Registration No.: 71184
For: SEA Diversified, Inc.
C.A. License Number 26937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	N.T.S.
SHEET:	C-1

CADD ID: 19-2782.SH1
TOTAL NUMBER OF SHEETS:

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

Exhibit "A"

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
AERIAL

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 W. ATLANTIC BLVD.
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr., P.E.
Florida Registration No.: 41184
For: SEA DIVERSIFIED, INC.
C.A. License Number 25937

PREPARED BY:

SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=100'

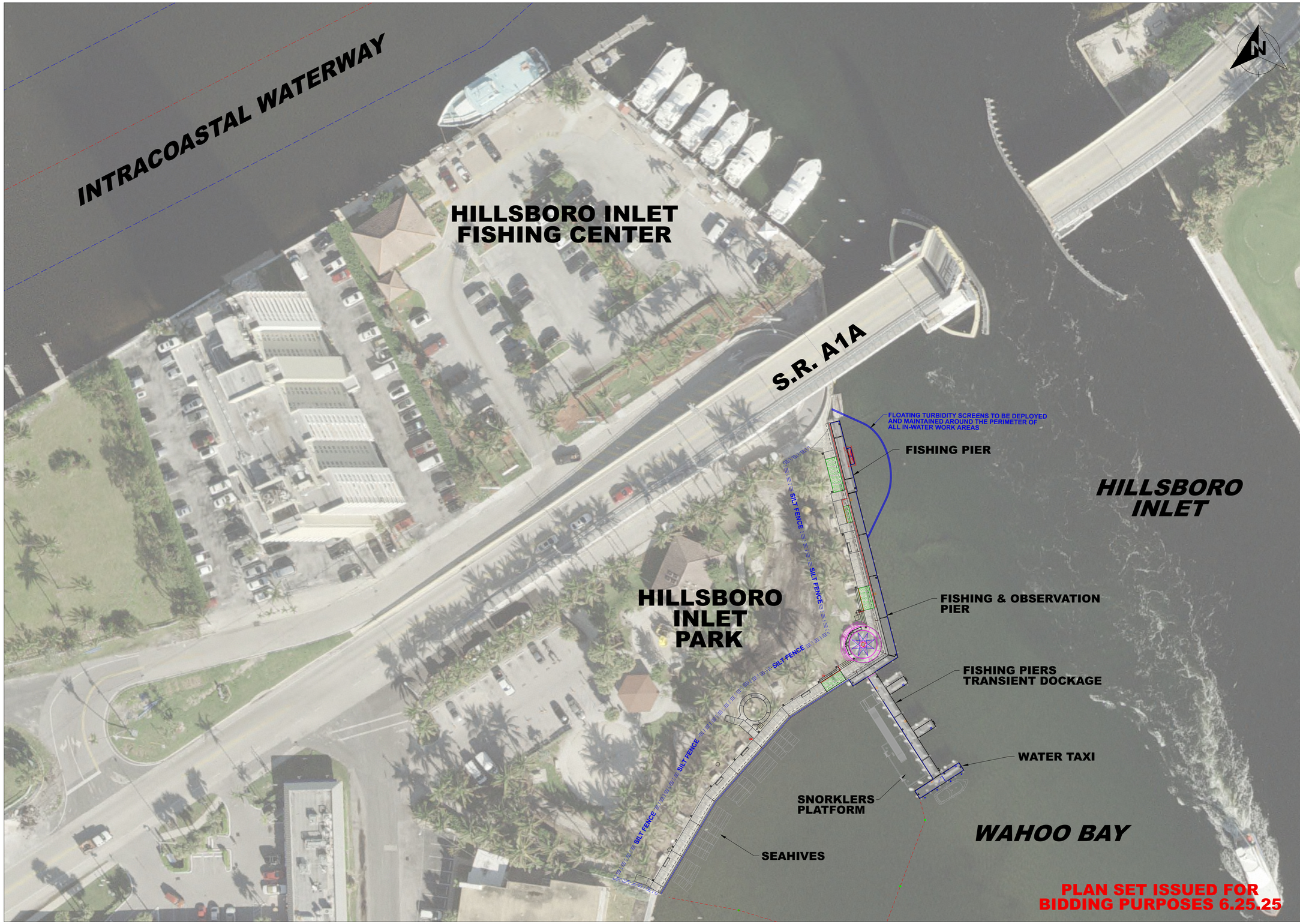
SHEET:
A-1

CADD ID:
TOTAL NUMBER OF SHEETS:

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

24-3350.sht2.A-1.AERIAL.6.10.25.DGN 7/19/2025 7:52:26 AM SEA DIVERSIFIED INC.



REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
AERIAL PROJECT OVERLAY

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr., P.E.
Florida Registration No.: 41164
Sea Diversified, Inc. - Engineering Div.
C.A. License Number 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=30'

SHEET:
A-2

CADD ID:
TOTAL NUMBER OF SHEETS:

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
BATHYMETRY

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr., P.E.
Florida Registration No.: 41164
Professional Engineer, SEA Diversified, Inc.
C.A. License Number 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'
SHEET:	

B-1

CADD ID:
TOTAL NUMBER OF SHEETS:

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

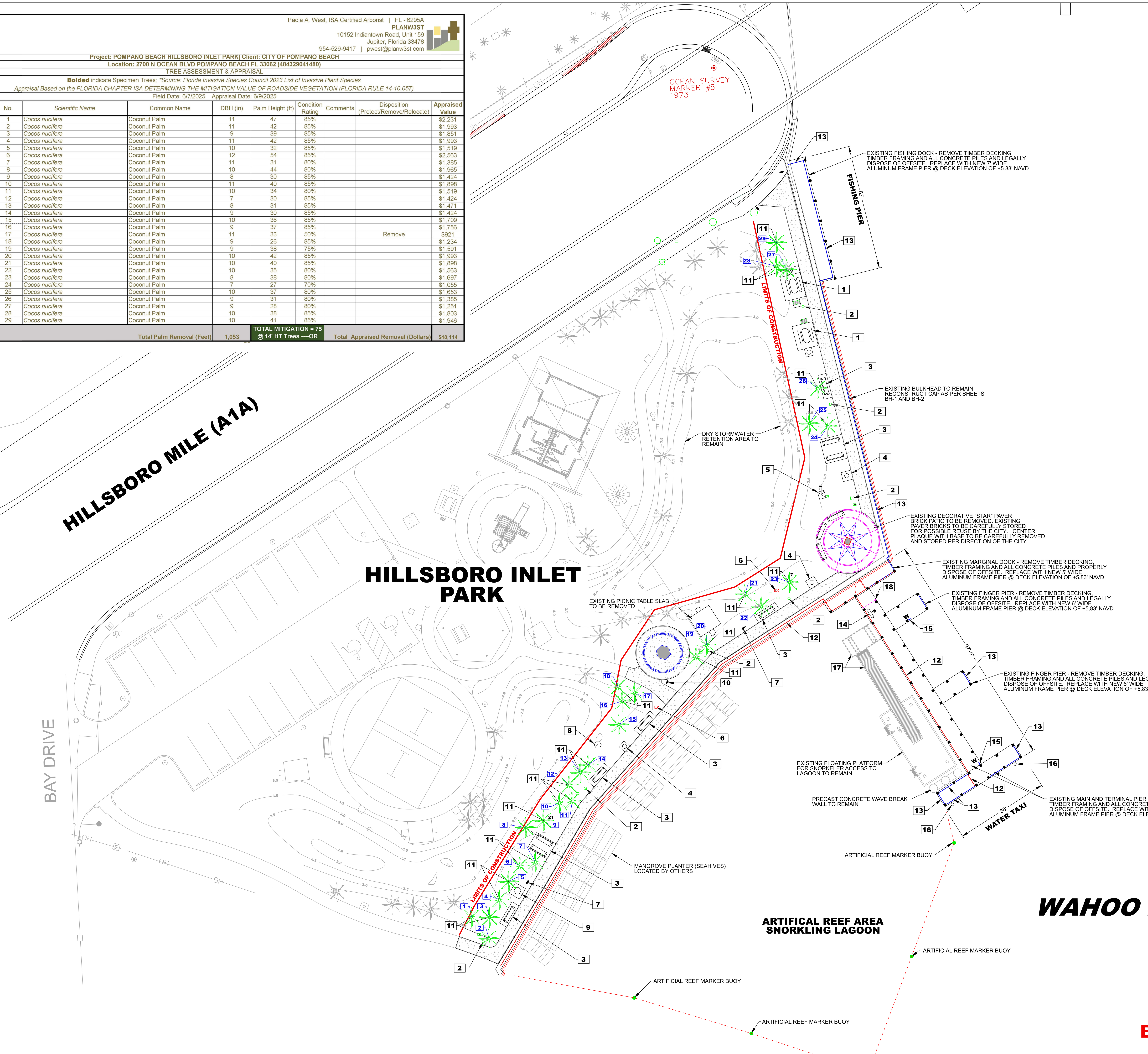
Paola A. West, ISA Certified Arborist | FL - 6295A
PLANW3ST
10152 Indiantown Road, Unit 159
Jupiter, Florida 33478
954-529-9417 | pwest@planw3st.com

Project: POMPANO BEACH HILLSBORO INLET PARK| Client: CITY OF POMPANO BEACH
Location: 2700 N OCEAN BLVD POMPANO BEACH FL 33062 (484329041480)

TREE ASSESSMENT & APPRAISAL

Bolded indicate Specimen Trees; **Source: Florida Invasive Species Council 2023 List of Invasive Plant Species*
Appraisal Based on the FLORIDA CHAPTER ISA DETERMINING THE MITIGATION VALUE OF ROADSIDE VEGETATION (FLORIDA RULE 14-10.057)
Field Date: 6/7/2025 Appraisal Date: 6/9/2025

ID	No.	*Scientific Name*	Common Name	DBH (in)	Palm Height (ft)	Condition Rating	Comments	Disposition (Protect/Remove/Relocate)	**Appraised Value**
1	1	*Cocos nucifera*	Coconut Palm	11	47	85%			$2,231
2	2	*Cocos nucifera*	Coconut Palm	11	42	85%			$1,993
3	3	*Cocos nucifera*	Coconut Palm	9	39	85%			$1,851
4	4	*Cocos nucifera*	Coconut Palm	11	42	85%			$1,993
5	5	*Cocos nucifera*	Coconut Palm	10	32	85%			$1,519
6	6	*Cocos nucifera*	Coconut Palm	12	54	85%			$2,563
7	7	*Cocos nucifera*	Coconut Palm	11	31	80%			$1,385
8	8	*Cocos nucifera*	Coconut Palm	10	44	80%			$1,965
9	9	*Cocos nucifera*	Coconut Palm	8	30	85%			$1,424
10	10	*Cocos nucifera*	Coconut Palm	11	40	85%			$1,898
11	11	*Cocos nucifera*	Coconut Palm	10	34	80%			$1,519
12	12	*Cocos nucifera*	Coconut Palm	7	30	85%			$1,424
13	13	*Cocos nucifera*	Coconut Palm	8	31	85%			$1,471
14	14	*Cocos nucifera*	Coconut Palm	9	30	85%			$1,424
15	15	*Cocos nucifera*	Coconut Palm	10	36	85%			$1,709
16	16	*Cocos nucifera*	Coconut Palm	9	37	85%			$1,756
17	17	*Cocos nucifera*	Coconut Palm	11	33	50%		Remove	$921
18	18	*Cocos nucifera*	Coconut Palm	9	26	85%			$1,234
19	19	*Cocos nucifera*	Coconut Palm	9	38	75%			$1,591
20	20	*Cocos nucifera*	Coconut Palm	10	42	85%			$1,993
21	21	*Cocos nucifera*	Coconut Palm	10	40	85%			$1,898
22	22	*Cocos nucifera*	Coconut Palm	10	35	80%			$1,563
23	23	*Cocos nucifera*	Coconut Palm	8	38	80%			$1,697
24	24	*Cocos nucifera*	Coconut Palm	7	27	70%			$1,055
25	25	*Cocos nucifera*	Coconut Palm	10	37	80%			$1,653
26	26	*Cocos nucifera*	Coconut Palm	9	31	80%			$1,385
27	27	*Cocos nucifera*	Coconut Palm	9	28	80%			$1,251
28	28	*Cocos nucifera*	Coconut Palm	10	38	85%			$1,803
29	29	*Cocos nucifera*	Coconut Palm	10	41	85%			$1,946
			Total Palm Removal (Feet)	1,053	TOTAL MITIGATION = 75 @ 14' HT Trees ----OR			Total Appraised Removal (Dollars)	$48,114



SHEET NOTES:

1. REMOVE EXISTING PICNIC TABLE, TRASH RECEPTACLE AND GRILL AND STORE ONSITE PER DIRECTION OF THE CITY. REMOVE AND DISPOSE OF CONCRETE PAD. OPTIONAL BID ITEM: REINSTALL PICNIC TABLE ON NEW CONCRETE SLAB AT OTHER LOCATION WITHIN BOUNDARIES OF THE PARK. FURNISH AND INSTALL NEW GRILL PER DIRECTION OF HE CITY.
2. REMOVE LIGHT BOLLARD AND STORE OR DISPOSE PER DIRECTION OF THE CITY. FURNISH AND INSTALL NEW LIGHT BOLLARD PER PLANS BY RONALD L. LEVINSON, P.E., CONSULTING ENGINEER.
3. REMOVE BENCH(S) AND STORE ONSITE PER DIRECTION OF THE CITY. REMOVE AND DISPOSE OF CONCRETE PAD. REINSTALL BENCH(S) ON NEW CONCRETE WALK AT LOCATION DICTATED BY THE CITY.
4. REMOVE TRASH RECEPTACLE AND STORE ONSITE PER DIRECTION OF THE CITY. REMOVE AND DISPOSE OF CONCRETE PAD. REINSTALL TRASH RECEPTACLE ON NEW CONCRETE WALK AT LOCATION DICTATED BY THE CITY.
5. REMOVE FLAG POLE AND SPOT LIGHT AND CAREFULLY STORE ONSITE PER DIRECTION OF THE CITY. REMOVE AND DISPOSE OF CONCRETE PAD. REINSTALL FLAG POLE IN-KIND AT LOCATION DICTATED BY THE CITY. FURNISH AND INSTALL NEW SPOT LIGHT TO MATCH EXISTING.
6. REMOVE CAMERA POLE AND SECURITY CAMERA AND STORE ONSITE PER DIRECTION OF THE CITY. REINSTALL CAMERA POLE AND SECURITY CAMERA IN-KIND. CONTRACTOR TO COODINATE WITH THE CITY REGARDING THE REMOVAL AND REINSTALLATION OF THE SECURITY CAMERA.
7. REMOVE PLAQUE WITH STAND AND CAREFULLY STORE ONSITE TO AVOID DAMAGE. REINSTALL IN-KIND AT LOCATION DICTATED BY THE CITY.
8. REMOVE PLAQUE AND BELL AND CAREFULLY STORE ONSITE TO AVOID DAMAGE. REINSTALL IN-KIND AT LOCATION DICTATED BY THE CITY.
9. REMOVE FISH STATUE AND CAREFULLY STORE ONSITE TO AVOID DAMAGE. REINSTALL IN-KIND AT LOCATION DICTATED BY THE CITY.
10. REMOVE SIGN AND STORE ONSITE. REINSTALL IN-KIND AT LOCATION DICTATED BY THE CITY.
11. CAREFULLY REMOVE PALM TREE INCLUDING ROOT SYSTEM IN IT'S ENTIRETY. BAG ROOT SYSTEM, RELOCATE AND STORE ONSITE FOR REPLANTING AFTER COMPLETION OF THE FILL AND GRADING ACTIVITIES. CONTRACTOR TO ENSURE TREES ARE PROPERLY MAINTAINED AND WATERED DURING THE DURATION OF STORAGE. REPLANT AT LOCATIONS DICTATED BY THE CITY IN ACCORDANCE WITH CITY TREE REPLANTING SPECIFICATIONS. TREE REMOVAL, HANDLING, STORAGE AND REPLANTING TO BE CONDUCTED UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST.
12. REMOVE ALUMINUM / STAINLESS STEEL CABLE RAILING AND SALVAGE OR DISPOSE OF AS DICTATED BY THE CITY.
13. REMOVE AND LEGALLY DISPOSE OF TIMBER RAILING.
14. DISCONNECT, REMOVE AND DISPOSE OF FIRE HOSE CABINET. FIRE MAIN TO BE CUT, CAPPED AND ABANDONED AT THE PROTRUSION FROM THE BULKHEAD. ALL WORK TO BE CONDUCTED BY A LICENSED PLUMBING CONTRACTOR IN COORDINATION WITH THE CITY.
15. DISCONNECT, REMOVE AND DISPOSE OF HOSE BIBS. WATER MAIN TO BE CUT AND CAPPED ON THE WATERSIDE OF THE BULKHEAD AS REQUIRED FOR RECONNECTION AFTER THE NEW DOCKS ARE INSTALLED. ALL WORK TO BE CONDUCTED BY A LICENSED PLUMBING CONTRACTOR IN COORDINATION WITH THE CITY.
16. REMOVE AND LEGALLY DISPOSE OF TIMBER FENDER PILES.
17. TEMORARILY REMOVE AND STORE FIXED ALUMINUM ACCESS PIER AND GANGWAY. EXISTING CONCRETE PILES (4) TO BE BE EXTENDED VERTICALLY TO AN ELEVATION THAT WILL RAISE THE EXISTING PIER DECK TO THE ELEVATION OF THE NEW WATER TAXI PIER (+5.83' NAVD). CONTRACTOR TO VERIFY THE REQ'D VERTICAL PILE EXTENSION THROUGH FIELD MEASUREMENTS. REINSTALL ALUMINUM ANGLE PIER SUPPORTS IN-KIND AND REINSTALL ALUMINUM ACCESS PIER AND GANGWAY AS ORIGINALLY ATTACHED.
18. REMOVE WATER TAXI SIGN AND STORE ONSITE. REINSTALL IN-KIND AT LOCATION DICTATED BY THE CITY.

LEGEND

- LED LIGHT BOLLARD
- TRASH RECEPTACLE
- PARK BENCH
- SIGN
- TIMBER GUARDRAIL / HANDRAIL
- ALUMINUM GUARDRAIL / HANDRAIL
- FIRE HOSE CABINET
- HOSE BIBB
- SECURITY CAMERA
- PARK FEATURE (I.E. STATUE)
- CONCRETE PILE
- EXISTING TREE ID - REF. TREE ASSESSMENT & MITIGATION SUMMARY BY PLANW3ST

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS**
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **EXISTING CONDITIONS DEMOLITION PLAN**

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr., P.E.
Florida Registration No.: 41184
For the Firm Sea Diversified, Inc.
C.A. License Number 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'
SHEET:	EX-1
CADD ID:	
TOTAL NUMBER OF SHEETS:	

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA. SDI P.N.: 24-3350

CONCRETE WALK AND BULKHEAD ALONG INLET SIDE OF PARK

EXISTING TIMBER FISHING PIER TO BE REMOVED

VIEW EASTERLY ALONG INLET SIDE OF PARK

CONCRETE WALKWAY AND BULKHEAD ALONG BAY SIDE POF PARK

BULKHEAD AND WALER ALONG BAY SIDE OF PARK

ENTRANCE TO PIER AND WATER TAXI SIGNAGE

VIEW NORTHWESTERLY AT TIMBER PIER TO BE REMOVED AND RECONSTRUCTED (WATER TAXI DOCK)

VIEW NORTHERLY ALONG LANDWARD SIDE OF BAYSIDE WALKWAY

PAVER BRICK PATIO / SITTING AREA AT ENTRANCE TO PIER TO BE REMOVED RECONSTRUCT IN-KIND AFTER FILLING AND GRADING

PICNIC BENCH AND GRILL TO BE REMOVED - REINSTALL WITH NEW CONCRETE PAD PER CITY DIRECTION

PARK BENCHES AND BOLLARDS TO BE REMOVED TO FACILITATE GRADING

TYPICAL LIGHT BOLLARD TO BE REMOVED

FLAG POLE AND BASE TO BE REMOVED AND REINSTALLED AFTER GRADING

SIGNAGE AND SECURITY CAMERAS TO BE REMOVED AND REINSTALLED AFTER FILLING AND GRADING

ANCHOR STATUTE TO BE MODIFIED BASED ON FINAL GRADES

BELL STATUTE TO BE REMOVED AND REINSTALLED AFTER FILLING AND GRADING

FISH STATUTE TO BE REMOVED AND REINSTALLED AFTER FILLING AND GRADING

DRY RETENTION AREA ALONG INLET SIDE OF PARK

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
EXISTING SITE PHOTOS

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr., P.E.
Florida Registration No.: 41184
Sea Diversified, Inc. Florida Lic. C.A. License Number 25937

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SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

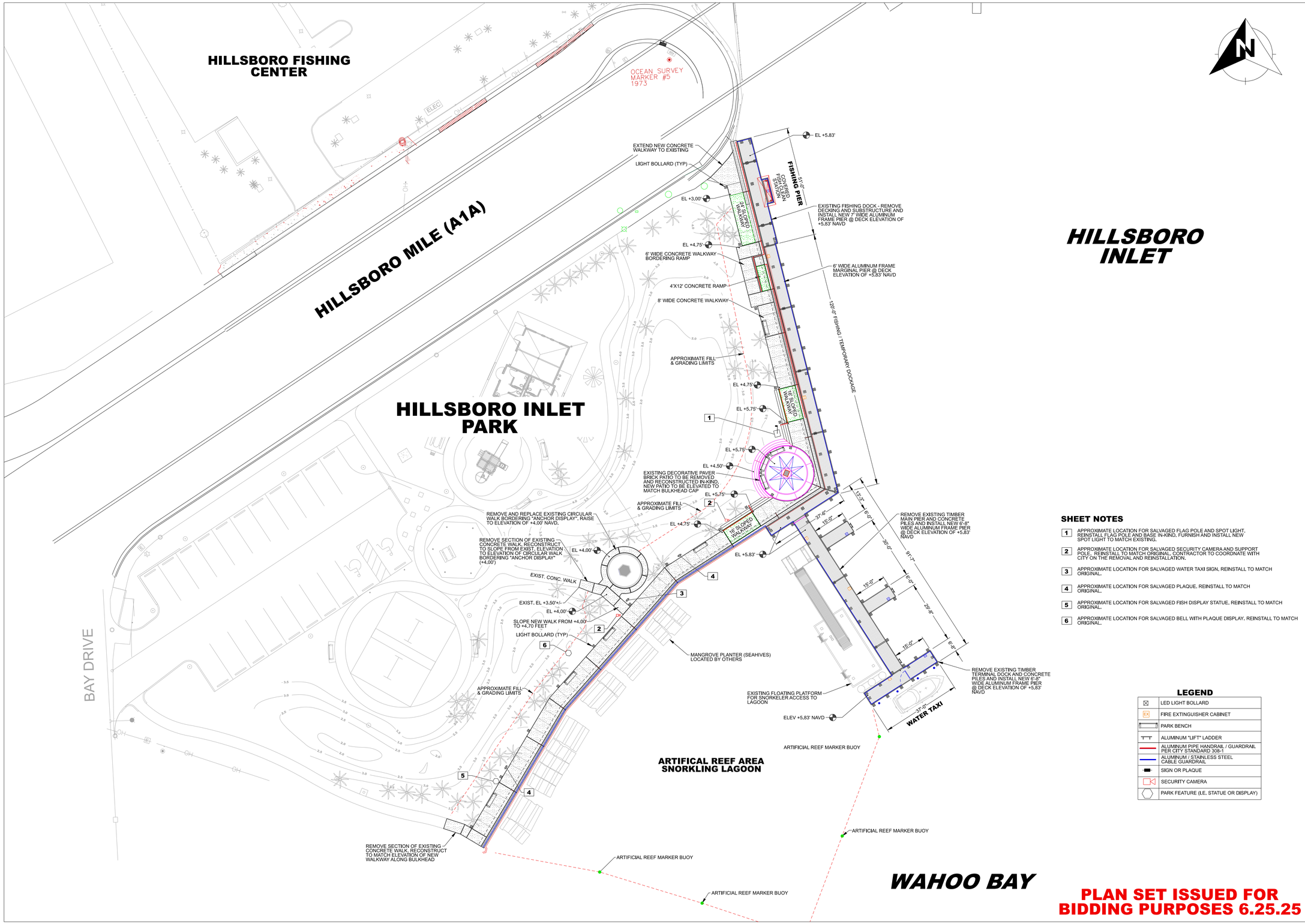
SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	N.T.S.

SHEET:
EX-2

CADD ID:
TOTAL NUMBER OF SHEETS:

SDI P.N.: 24-3350



SHEET NOTES

1. APPROXIMATE LOCATION FOR SALVAGED FLAG POLE AND SPOT LIGHT. REINSTALL FLAG POLE AND BASE IN-KIND. FURNISH AND INSTALL NEW SPOT LIGHT TO MATCH EXISTING.
2. APPROXIMATE LOCATION FOR SALVAGED SECURITY CAMERA AND SUPPORT POLE. REINSTALL TO MATCH ORIGINAL. CONTRACTOR TO COORDNATE WITH CITY ON THE REMOVAL AND REINSTALLATION.
3. APPROXIMATE LOCATION FOR SALVAGED WATER TAXI SIGN. REINSTALL TO MATCH ORIGINAL.
4. APPROXIMATE LOCATION FOR SALVAGED PLAQUE. REINSTALL TO MATCH ORIGINAL.
5. APPROXIMATE LOCATION FOR SALVAGED FISH DISPLAY STATUE. REINSTALL TO MATCH ORIGINAL.
6. APPROXIMATE LOCATION FOR SALVAGED BELL WITH PLAQUE DISPLAY. REINSTALL TO MATCH ORIGINAL.

LEGEND

	LED LIGHT BOLLARD
EX	FIRE EXTINGUISHER CABINET
	PARK BENCH
	ALUMINUM "LIFT" LADDER
	ALUMINUM PIPE HANDRAIL / GUARDRAIL PER CITY STANDARD 308-1
	ALUMINUM / STAINLESS STEEL CABLE GUARDRAIL
	SIGN OR PLAQUE
	SECURITY CAMERA
	PARK FEATURE (I.E. STATUE OR DISPLAY)

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: SITE PLAN

PREPARED FOR: pompano beach. Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC BLVD.
POMPANO BEACH, FLORIDA 33060

CERTIFICATION: William T. Sadler, Jr. P.E. Florida Registration No.: 41164 Florida Registered Business No. C.A. License Number 25937

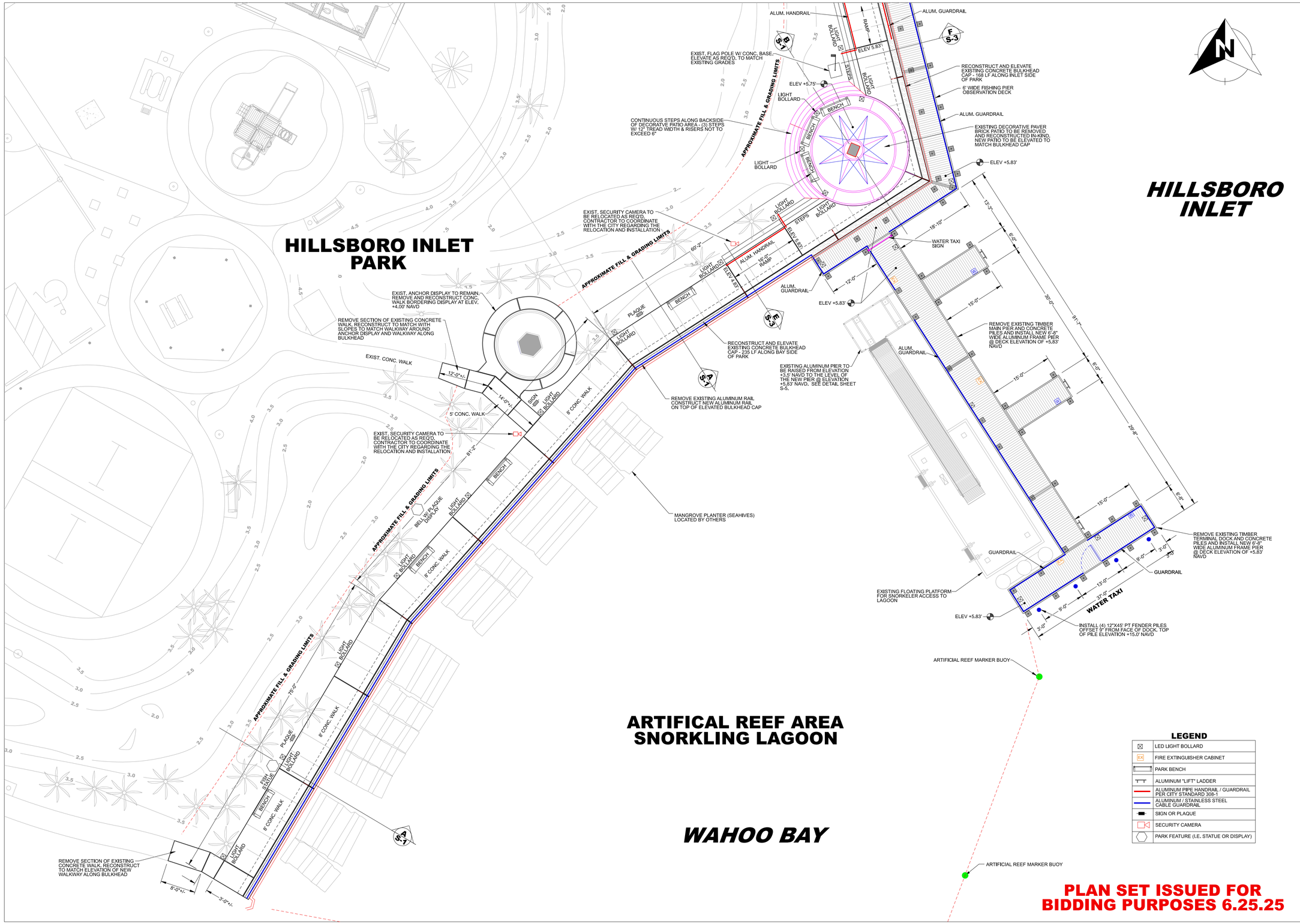
PREPARED BY: SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'
SHEET:	P-1

CADD ID:
TOTAL NUMBER OF SHEETS:

Exhibit "A"



PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

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SDI P.N.: 24-3350

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
PLAN DETAIL SOUTH

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr., P.E.
Florida Registration No. 41184
For the Firm: Sea Diversified, Inc.
C.A. License Number 26937

PREPARED BY:

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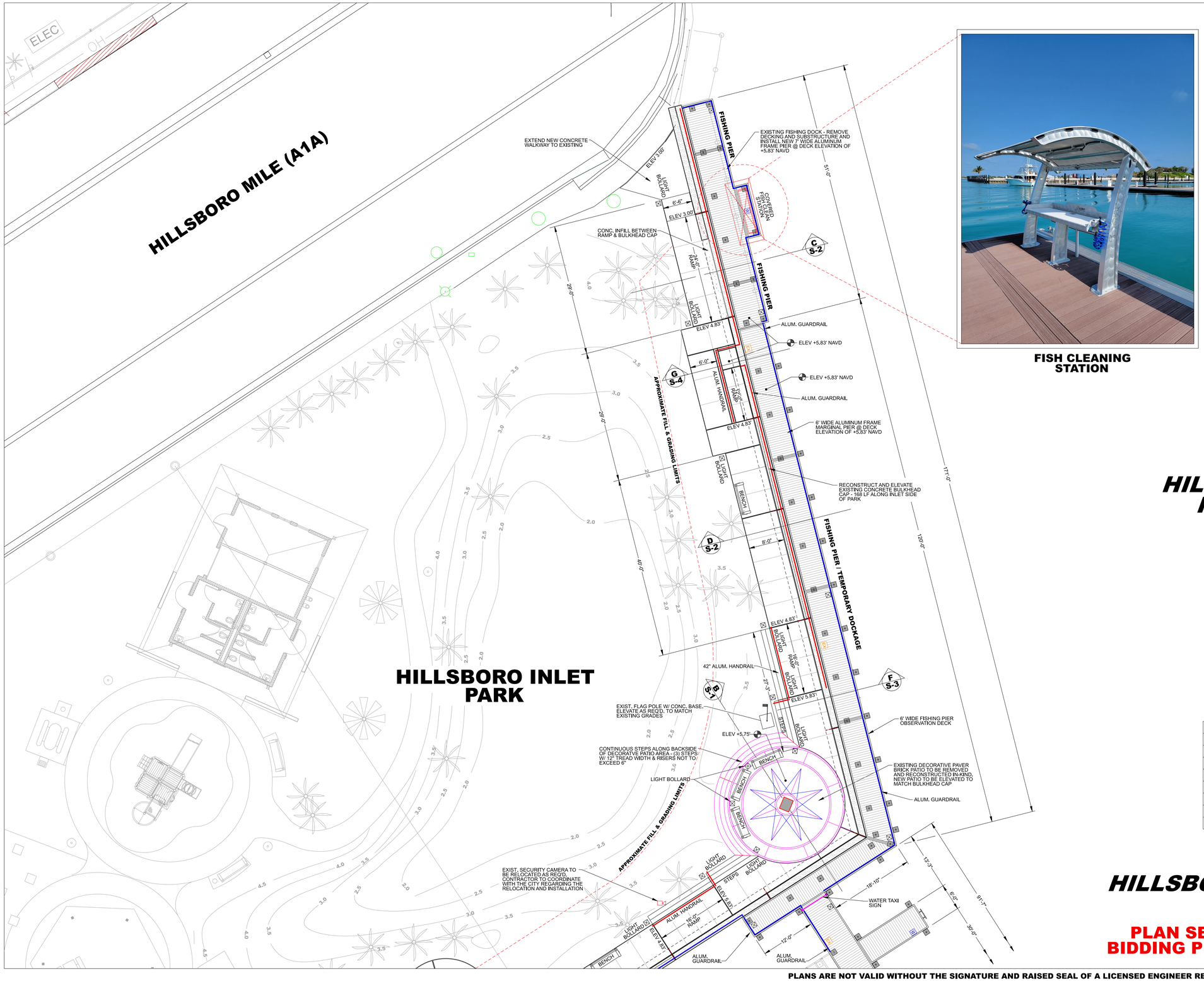
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	P-2
CADD ID:	
TOTAL NUMBER OF SHEETS:	



PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
PLAN DETAIL NORTH

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 W. ATLANTIC BLVD.
POMPANO BEACH, FLORIDA 33060

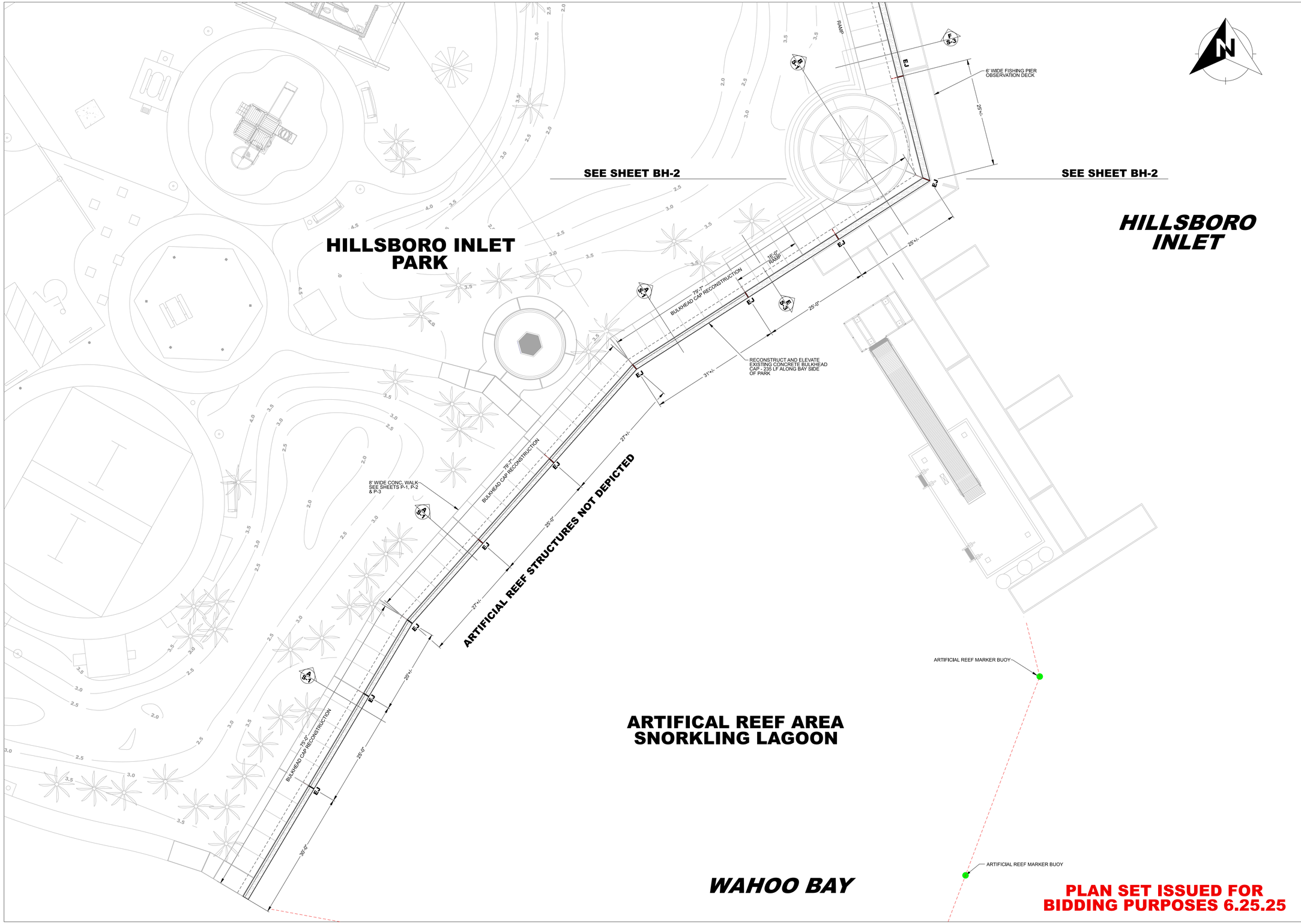
CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.: 41194
For: SEA Diversified, Inc.
C.A. License Number 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	P-3
CADD ID:	
TOTAL NUMBER OF SHEETS:	

Exhibit "A"



PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: BULKHEAD PLAN SOUTH

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.: 41164
For the firm: Sea Diversified, Inc.
C.A. License Number 25937

PREPARED BY: SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

DATE:	JUNE 2025
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CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	BH-1

CADD ID:
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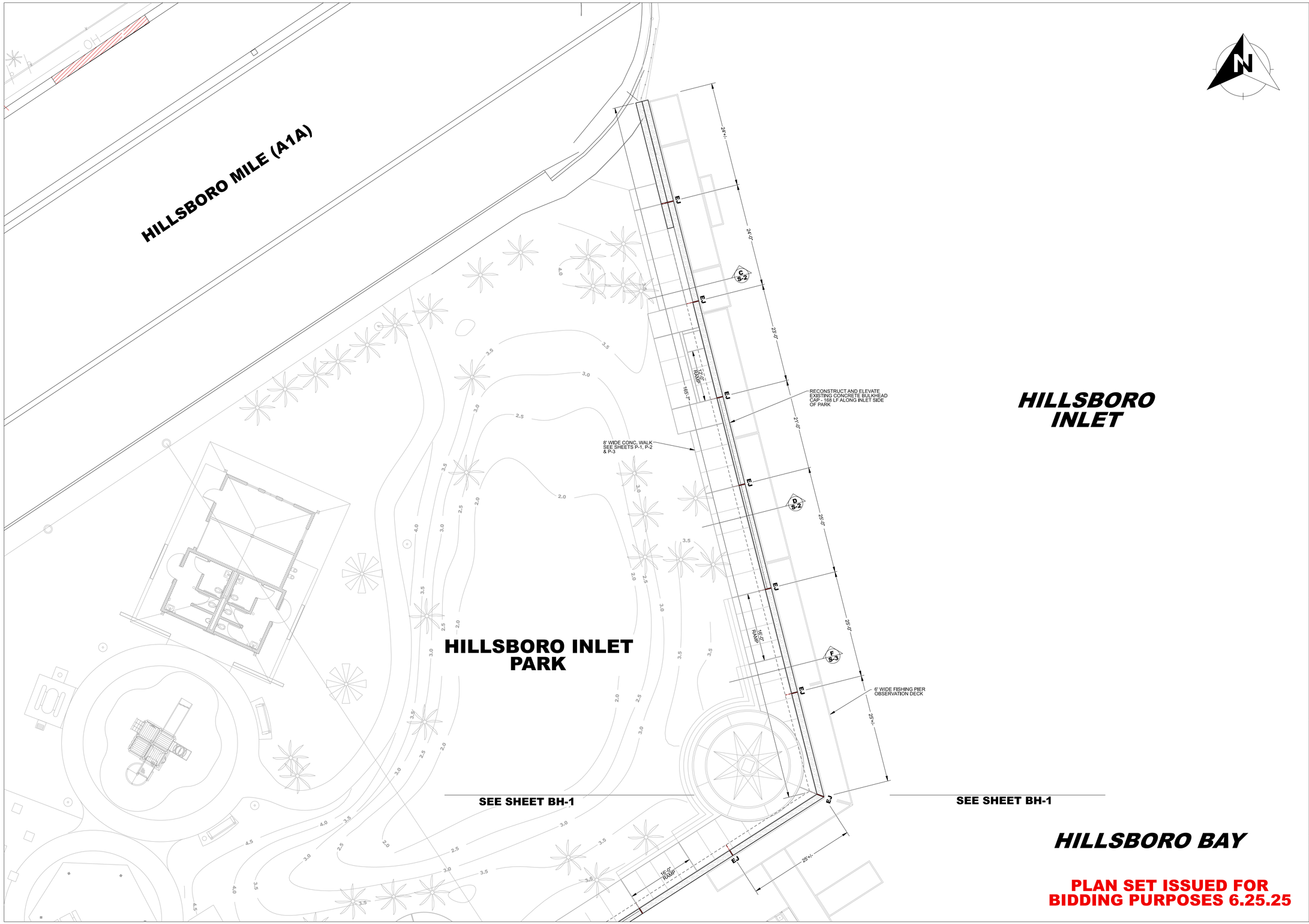
SDI P.N.: 24-3350

24-3350.sh10.BH-1.plan.detail.south.6.25.25_2D.dgn 7/21/2025 7:41:09 AM SEA DIVERSIFIED INC.

Exhibit "A"



PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
PLAN DETAIL NORTH

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.: 71184
For: SEA DIVERSIFIED, INC.
C.A. License Number 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'

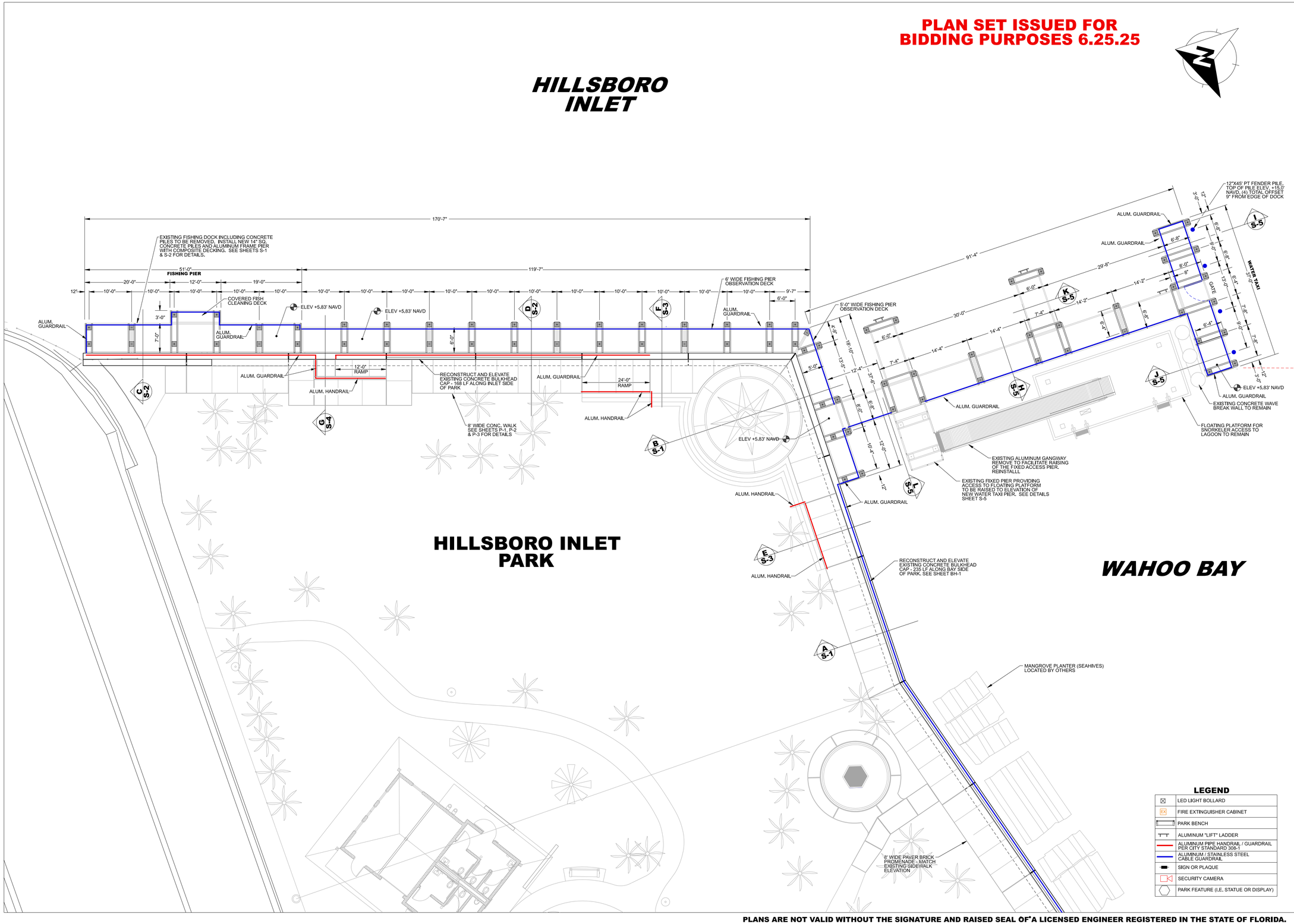
SHEET:
BH-2

CADD ID:
TOTAL NUMBER OF SHEETS:

24-3350.sh11.BH-2.plan.detail.south.6.25.25_2D.dgn 7/22/2025 1:13:04 PM SEA DIVERSIFIED INC.

Exhibit "A"

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25



REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS**
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **MARGINAL DOCK & PIER PILE LAYOUT**

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC BLVD.
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.:41184
Florida Eng. Licensed Business No.
C.A. License Number 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	D-1
CADD ID:	
TOTAL NUMBER OF SHEETS:	

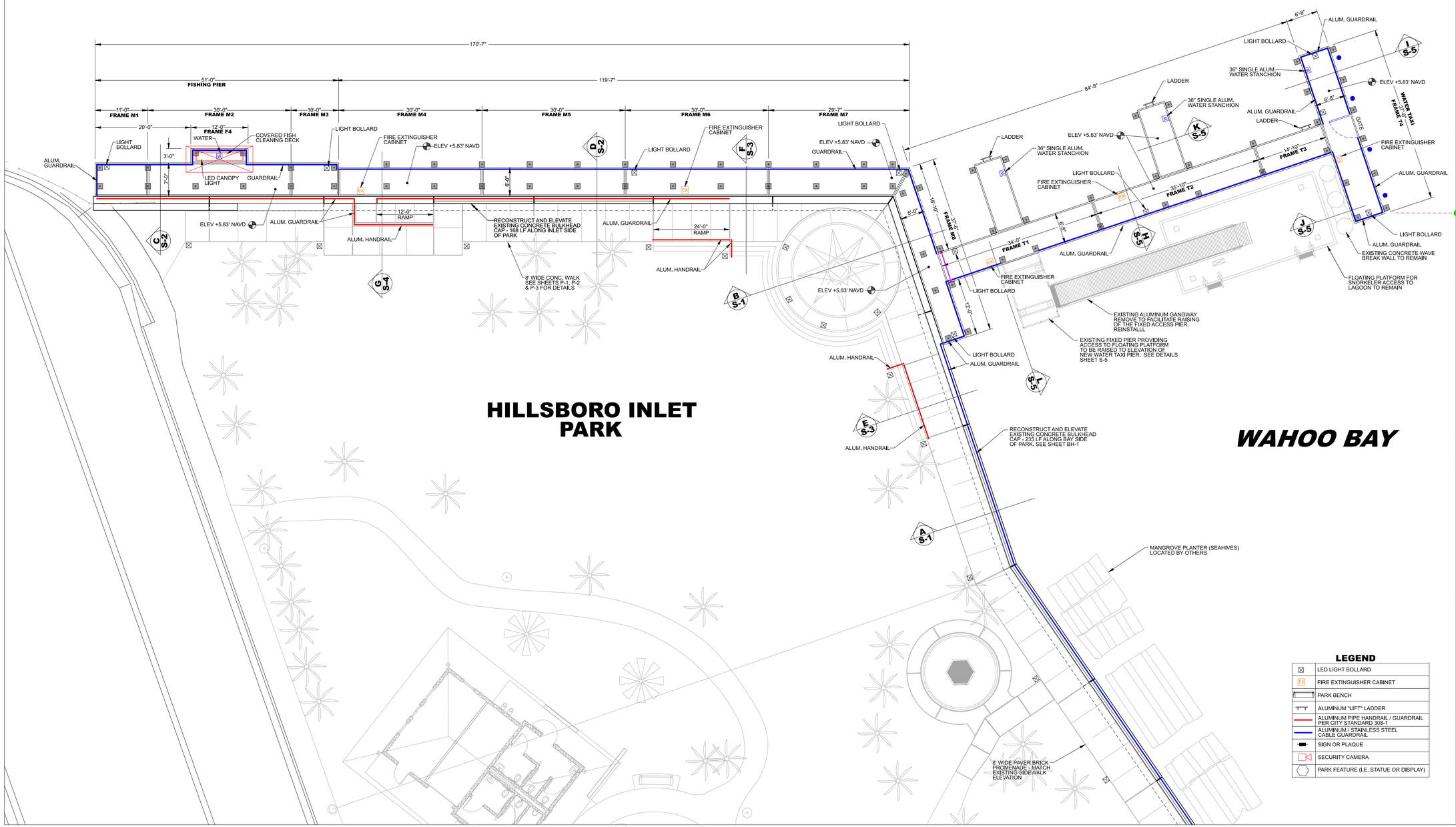
PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

Exhibit "A"

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

HILLSBORO INLET



LEGEND

⊠	LED LIGHT BOLLARD
FX	FIRE EXTINGUISHER CABINET
	PARK BENCH
	ALUMINUM "LIFT" LADDER
	ALUMINUM PIPE HANDRAIL / GUARDRAIL PER CITY STANDARD 308-1
	ALUMINUM / STAINLESS STEEL CABLE GUARDRAIL
	SIGN OR PLAQUE
	SECURITY CAMERA
	PARK FEATURE (I.E. STATUE OR DISPLAY)

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS**
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **MARGINAL DOCK & PIER PILE LAYOUT**

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 NORTH ANDREWS AVENUE
POMPANO BEACH, FLORIDA 33060

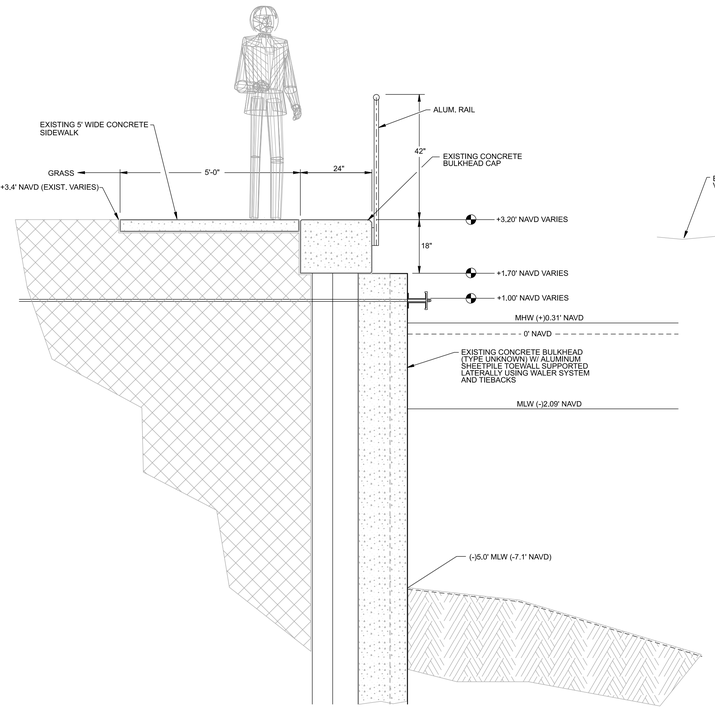
CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.: 41184
For: SEA DIVERSIFIED, INC.
C.A. License Number 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

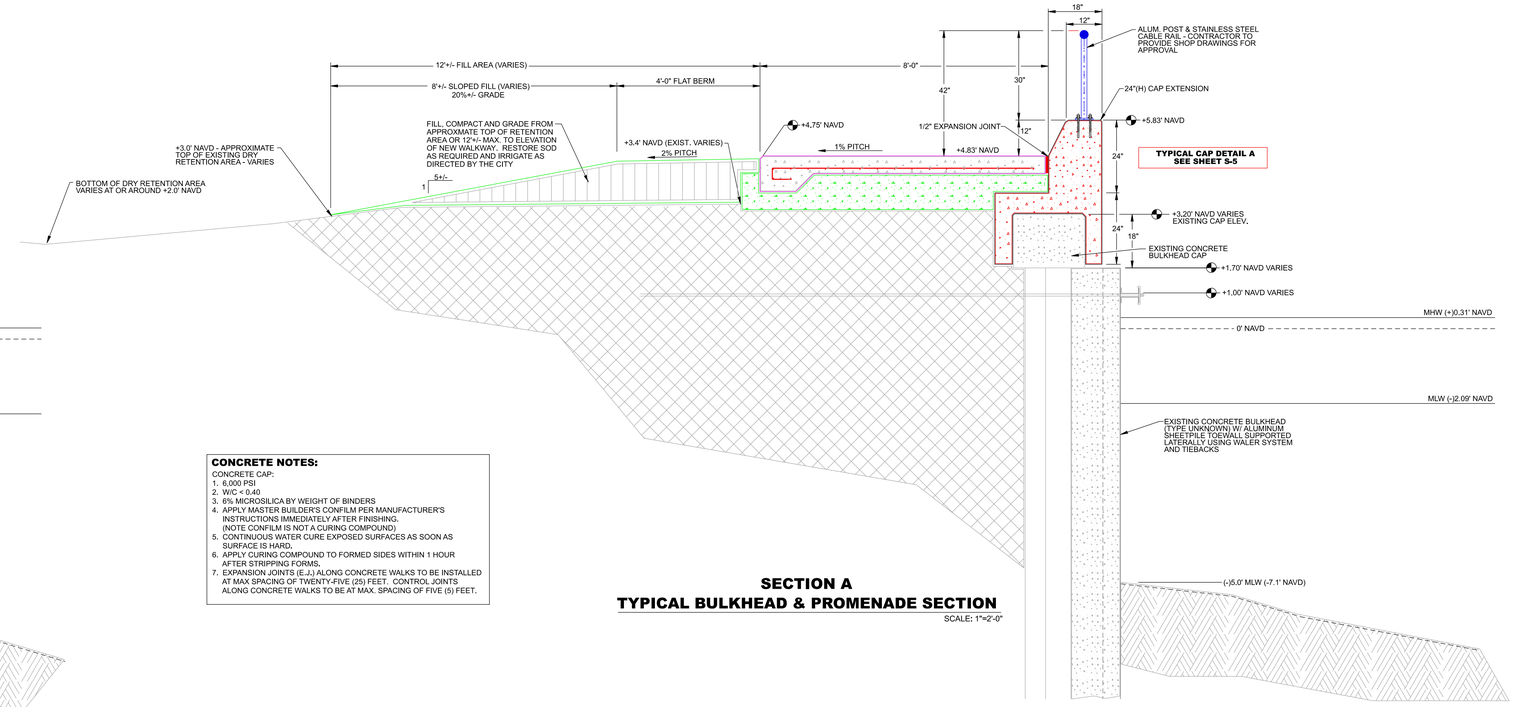
DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	D-2
CADD ID:	
TOTAL NUMBER OF SHEETS:	

Exhibit "A"



SECTION A
TYPICAL SECTION - EXISTING CONDITIONS

SCALE: 1"=2'-0"

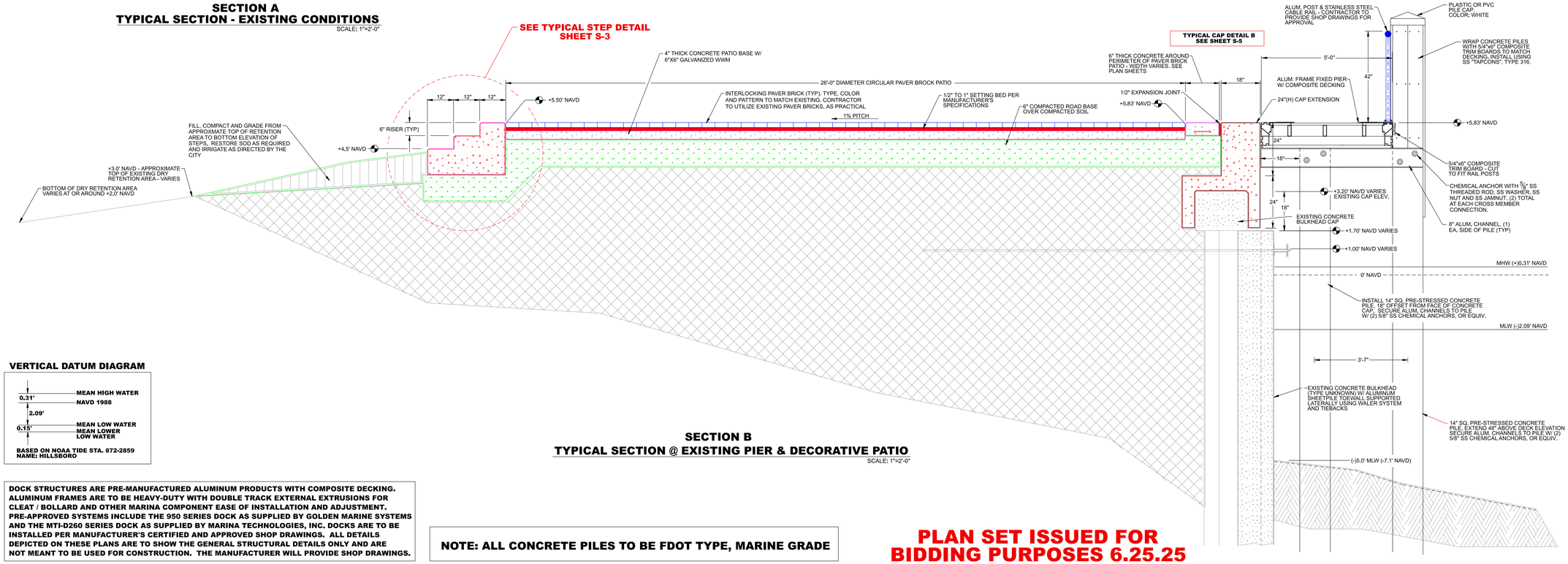


CONCRETE NOTES:

CONCRETE CAP:
1. 6,000 PSI
2. W/C < 0.40
3. 6% MICROSILICA BY WEIGHT OF BINDERS
4. APPLY MASTER BUILDER'S CONFILM PER MANUFACTURER'S INSTRUCTIONS IMMEDIATELY AFTER FINISHING. (NOTE CONFILM IS NOT A CURING COMPOUND)
5. CONTINUOUS WATER CURE EXPOSED SURFACES AS SOON AS SURFACE IS HARD.
6. APPLY CURING COMPOUND TO FORMED SIDES WITHIN 1 HOUR AFTER STRIPPING FORMS.
7. EXPANSION JOINTS (E.J.) ALONG CONCRETE WALKS TO BE INSTALLED AT MAX SPACING OF TWENTY-FIVE (25) FEET. CONTROL JOINTS ALONG CONCRETE WALKS TO BE AT MAX. SPACING OF FIVE (5) FEET.

SECTION A
TYPICAL BULKHEAD & PROMENADE SECTION

SCALE: 1"=2'-0"



SECTION B
TYPICAL SECTION @ EXISTING PIER & DECORATIVE PATIO

SCALE: 1"=2'-0"

VERTICAL DATUM DIAGRAM

0.31'	MEAN HIGH WATER
	NAVD 1988
2.09'	
0.15'	MEAN LOW WATER
	MEAN LOWER LOW WATER

BASED ON NOAA TIDE STA. 872-2859
NAME: HILLSBORO

DOCK STRUCTURES ARE PRE-MANUFACTURED ALUMINUM PRODUCTS WITH COMPOSITE DECKING. ALUMINUM FRAMES ARE TO BE HEAVY-DUTY WITH DOUBLE TRACK EXTERNAL EXTRUSIONS FOR CLEAT / BOLLARD AND OTHER MARINA COMPONENT EASE OF INSTALLATION AND ADJUSTMENT. PRE-APPROVED SYSTEMS INCLUDE THE 950 SERIES DOCK AS SUPPLIED BY GOLDEN MARINE SYSTEMS AND THE MTI-D260 SERIES DOCK AS SUPPLIED BY MARINA TECHNOLOGIES, INC. DOCKS ARE TO BE INSTALLED PER MANUFACTURER'S CERTIFIED AND APPROVED SHOP DRAWINGS. ALL DETAILS DEPICTED ON THESE PLANS ARE TO SHOW THE GENERAL STRUCTURAL DETAILS ONLY AND ARE NOT MEANT TO BE USED FOR CONSTRUCTION. THE MANUFACTURER WILL PROVIDE SHOP DRAWINGS.

NOTE: ALL CONCRETE PILES TO BE FDOT TYPE, MARINE GRADE

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
TYPICAL SECTION DETAILS

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.: 41184
Sea Diversified Florida, Inc.
C.A. License Number 25537

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

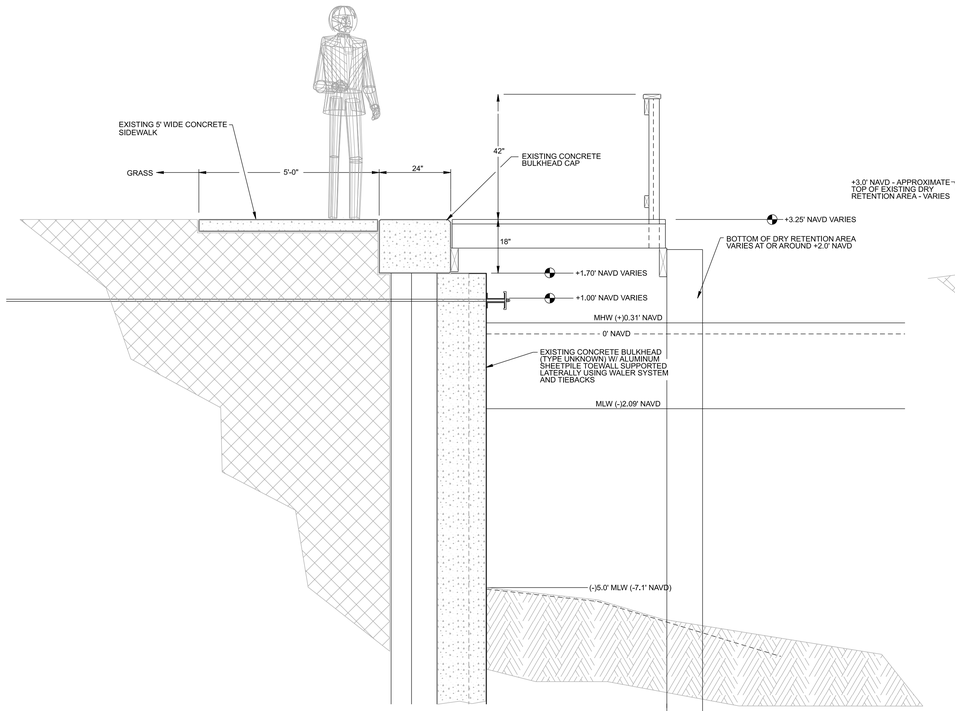
SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	AS SHOWN
SHEET:	

S-1

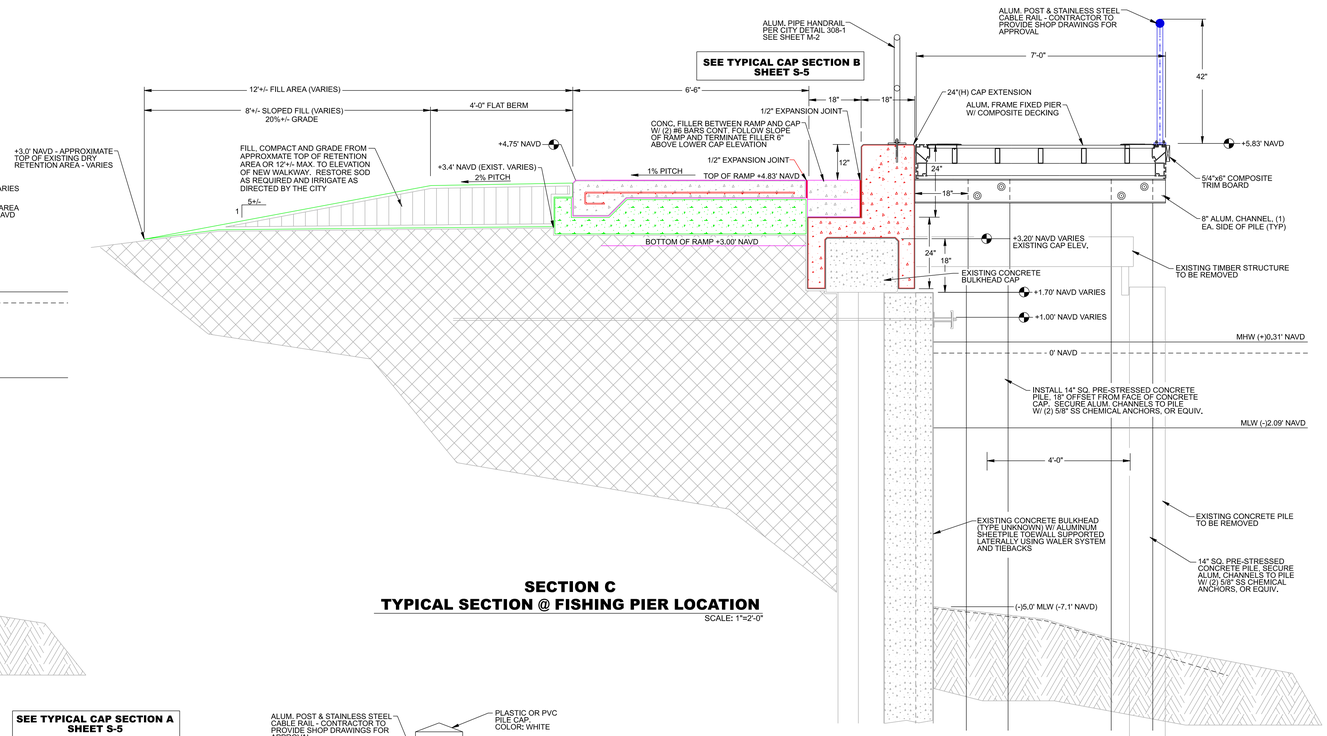
CADD ID:
TOTAL NUMBER OF SHEETS:

SDI P.N.: 24-3350



SECTION C
EXISTING CONDITIONS @ FISHING PIER LOCATION

SCALE: 1"=2'-0"



SECTION C
TYPICAL SECTION @ FISHING PIER LOCATION

SCALE: 1"=2'-0"

SECTION D
TYPICAL SECTION @ ALTERNATE TRANSIENT DOCK LOCATION

SCALE: 1"=2'-0"

NOTE: ALL CONCRETE PILES TO BE FDOT TYPE, MARINE GRADE FOR BIDDING PURPOSES ALL PILES TO BE 45 FEET IN LENGTH

VERTICAL DATUM DIAGRAM

	MEAN HIGH WATER
0.31'	NAVD 1988
2.09'	
	MEAN LOW WATER
0.15'	MEAN LOWER LOW WATER

BASED ON NOAA TIDE STA. 872-2859
NAME: HILLSBORO

DOCK STRUCTURES ARE PRE-MANUFACTURED ALUMINUM PRODUCTS WITH COMPOSITE DECKING. ALUMINUM FRAMES ARE TO BE HEAVY-DUTY WITH DOUBLE TRACK EXTERNAL EXTRUSIONS FOR CLEAT / BOLLARD AND OTHER MARINA COMPONENT EASE OF INSTALLATION AND ADJUSTMENT. PRE-APPROVED SYSTEMS INCLUDE THE 950 SERIES DOCK AS SUPPLIED BY GOLDEN MARINE SYSTEMS AND THE MTI-D260 SERIES DOCK AS SUPPLIED BY MARINA TECHNOLOGIES, INC. DOCKS ARE TO BE INSTALLED PER MANUFACTURER'S CERTIFIED AND APPROVED SHOP DRAWINGS. ALL DETAILS DEPICTED ON THESE PLANS ARE TO SHOW THE GENERAL STRUCTURAL DETAILS ONLY AND ARE NOT MEANT TO BE USED FOR CONSTRUCTION. THE MANUFACTURER WILL PROVIDE SHOP DRAWINGS.

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

CONCRETE NOTES:

CONCRETE CAP:
1. 6,000 PSI
2. W/C < 0.40
3. 6% MICROSILICA BY WEIGHT OF BINDERS
4. APPLY MASTER BUILDER'S CONFILM PER MANUFACTURER'S INSTRUCTIONS IMMEDIATELY AFTER FINISHING. (NOTE CONFILM IS NOT A CURING COMPOUND)
5. CONTINUOUS WATER CURE EXPOSED SURFACES AS SOON AS SURFACE IS HARD.
6. APPLY CURING COMPOUND TO FORMED SIDES WITHIN 1 HOUR AFTER STRIPPING FORMS.
7. EXPANSION JOINTS (E.J.) ALONG CONCRETE WALKS TO BE INSTALLED AT MAX SPACING OF TWENTY-FIVE (25) FEET. CONTROL JOINTS ALONG CONCRETE WALKS TO BE AT MAX. SPACING OF FIVE (5) FEET.

DESIGN CRITERIA

LIVE LOAD CRITERIA:
100 PSF, 400-LB POINT LOAD
FIXED STRUCTURES
PEDESTRIAN TRAFFIC ONLY

BERTHING LOAD CRITERIA:
3 FEET/SECOND (FPS)
10 DEGREE APPROACH ANGLE FOR SLIPS
30 DEGREE APPROACH ANGLE FOR SIDE & END TIES

WIND LOAD CRITERIA:
LOADED, FULL OCCUPANCY: N/A
UNLOADED, ZERO OCCUPANCY:
WIND SPEED: 156 MPH (3-SECOND GUST)
RISK CATEGORY I, EXPOSURE D PER ASCE/SEI 7-22

WAVE LOAD CRITERIA:
SIGNIFICANT WAVE HEIGHT (Hs): 3.6 FEET
WAVE PERIOD (Tp): 2.8 SECONDS

CURRENT LOAD CRITERIA:
2.0 FEET/SECOND (FPS)

WATER LEVEL DATA:
MHW: +0.31 FEET NAVD
MLW: -2.09 FEET NAVD

DESIGN WATER DEPTH:
-6.0 FEET MLW (MARGINAL DOCKS & PIERS)
-9.0 FEET MLW (WAHOO BAY FISHING PIER)

SERVICE LIFE: 30 YEARS

NOTES:
1. LIMITED FETCH BY USACE S.P.M. 1984
2. DURATION AVERAGE WIND (50 MINUTE)
3. BREAKING WAVE BY MINIKIN EQUATION
4. FIXED DOCKS TO COMPLY W/ 8TH EDITION (2023) FLORIDA BUILDING CODE

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: **HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS**
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: **TYPICAL SECTION DETAILS**

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 W. ATLANTIC BLVD.
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.: 71184
Sea Diversified, Inc. of Florida, Inc.
C.A. License Number 26937

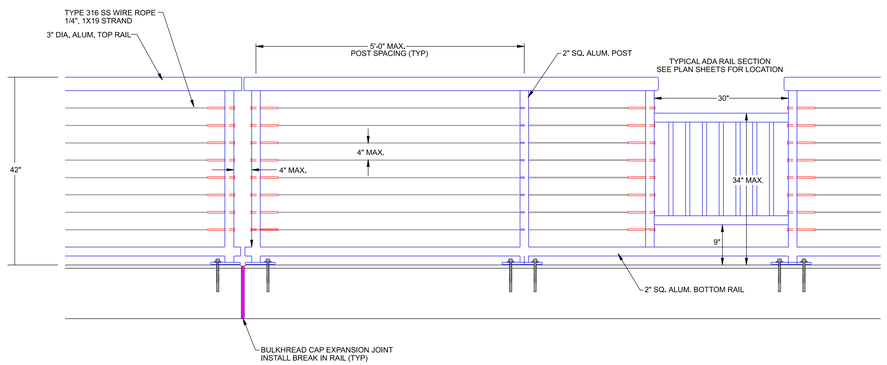
PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	AS SHOWN
SHEET:	S-2
CADD ID:	
TOTAL NUMBER OF SHEETS:	

SDI P.N.: 24-3350

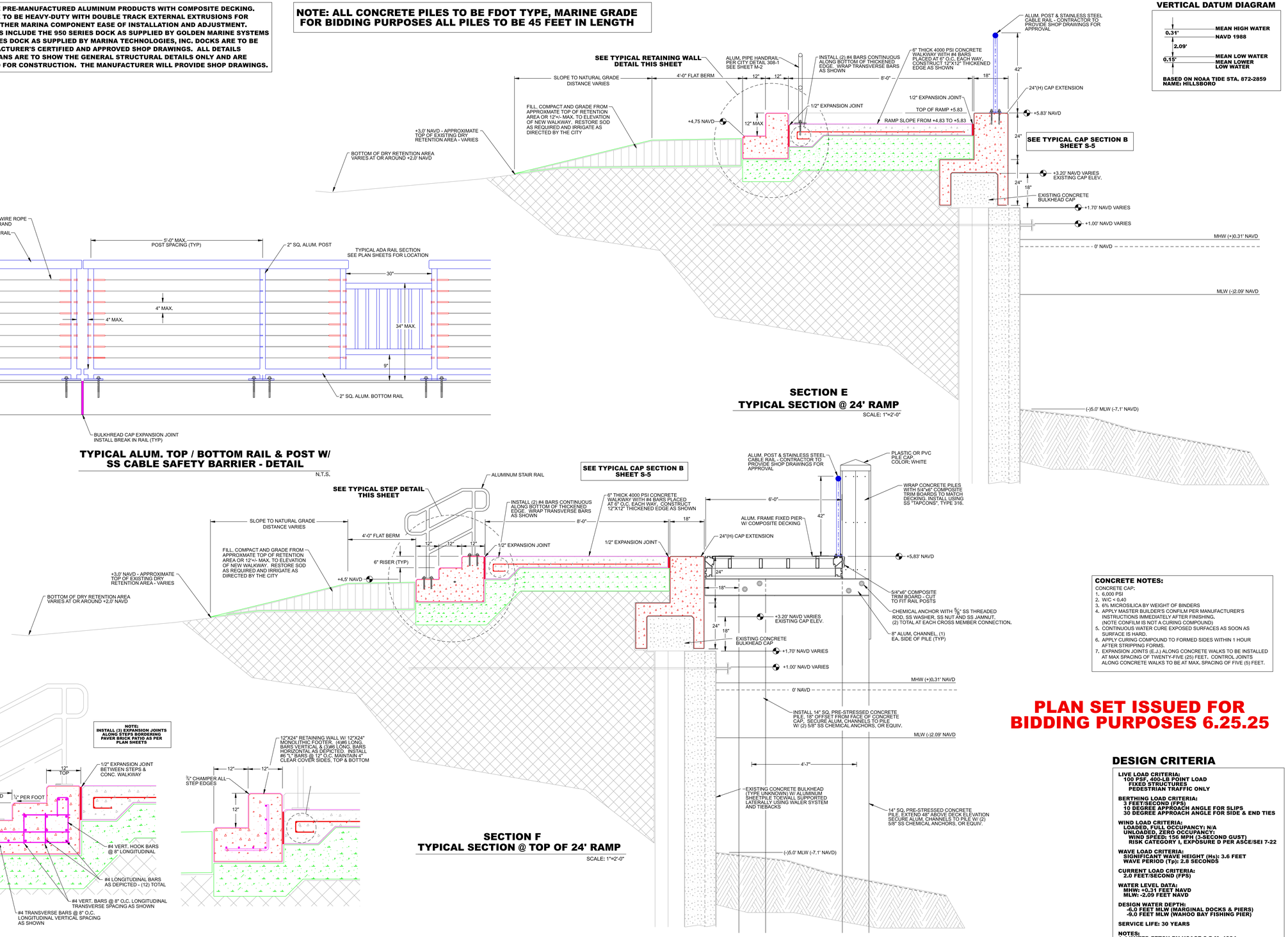
DOCK STRUCTURES ARE PRE-MANUFACTURED ALUMINUM PRODUCTS WITH COMPOSITE DECKING. ALUMINUM FRAMES ARE TO BE HEAVY-DUTY WITH DOUBLE TRACK EXTERNAL EXTRUSIONS FOR CLEAT / BOLLARD AND OTHER MARINA COMPONENT EASE OF INSTALLATION AND ADJUSTMENT. PRE-APPROVED SYSTEMS INCLUDE THE 950 SERIES DOCK AS SUPPLIED BY GOLDEN MARINE SYSTEMS AND THE MTI-D260 SERIES DOCK AS SUPPLIED BY MARINA TECHNOLOGIES, INC. DOCKS ARE TO BE INSTALLED PER MANUFACTURER'S CERTIFIED AND APPROVED SHOP DRAWINGS. ALL DETAILS DEPICTED ON THESE PLANS ARE TO SHOW THE GENERAL STRUCTURAL DETAILS ONLY AND ARE NOT MEANT TO BE USED FOR CONSTRUCTION. THE MANUFACTURER WILL PROVIDE SHOP DRAWINGS.

NOTE: ALL CONCRETE PILES TO BE FDOT TYPE, MARINE GRADE FOR BIDDING PURPOSES ALL PILES TO BE 45 FEET IN LENGTH



TYPICAL ALUM. TOP / BOTTOM RAIL & POST W/ SS CABLE SAFETY BARRIER - DETAIL

N.T.S.



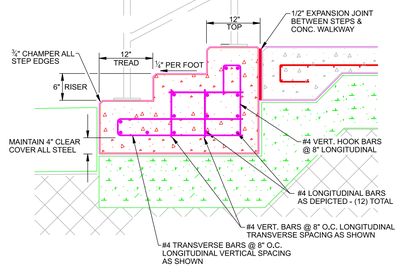
SECTION E
TYPICAL SECTION @ 24' RAMP

SCALE: 1"=2'-0"

SECTION F
TYPICAL SECTION @ TOP OF 24' RAMP

SCALE: 1"=2'-0"

NOTE: INSTALL (3) EXPANSION JOINTS ALONG STEPS BORDERING PAVER BRICK PATIO AS PER PLAN SHEETS



TYPICAL STEP DETAIL

N.T.S.

TYPICAL RETAINING WALL DETAIL

N.T.S.

CONCRETE NOTES:

CONCRETE CAP:
1. 6,000 PSI
2. W/C < 0.40
3. 6% MICROSILICA BY WEIGHT OF BINDERS
4. APPLY MASTER BUILDER'S CONFILM PER MANUFACTURER'S INSTRUCTIONS IMMEDIATELY AFTER FINISHING. (NOTE CONFILM IS NOT A CURING COMPOUND)
5. CONTINUOUS WATER CURE EXPOSED SURFACES AS SOON AS SURFACE IS HARD.
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PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

DESIGN CRITERIA

LIVE LOAD CRITERIA:
100 PSF, 400-LB POINT LOAD
FIXED STRUCTURES
PEDESTRIAN TRAFFIC ONLY

BERTHING LOAD CRITERIA:
3 FEET/SECOND (FPS)
10 DEGREE APPROACH ANGLE FOR SLIPS
30 DEGREE APPROACH ANGLE FOR SIDE & END TIES

WIND LOAD CRITERIA:
LOADED, FULL OCCUPANCY: N/A
UNLOADED, ZERO OCCUPANCY:
WIND SPEED: 156 MPH (3-SECOND GUST)
RISK CATEGORY I, EXPOSURE D PER ASCE/SEI 7-22

WAVE LOAD CRITERIA:
SIGNIFICANT WAVE HEIGHT (Hs): 3.6 FEET
WAVE PERIOD (Tp): 2.8 SECONDS

CURRENT LOAD CRITERIA:
2.0 FEET/SECOND (FPS)

WATER LEVEL DATA:
MHW: +0.31 FEET NAVD
MLW: -2.09 FEET NAVD

DESIGN WATER DEPTH:
-6.0 FEET MLW (MARGINAL DOCKS & PIERS)
-9.0 FEET MLW (WAHOO BAY FISHING PIER)

SERVICE LIFE: 30 YEARS

NOTES:
1. LIMITED FETCH BY USACE S.P.M. 1984
2. DURATION AVERAGE WIND (50 MINUTE)
3. BREAKING WAVE BY MINIKIN EQUATION
4. FIXED DOCKS TO COMPLY W/ 8TH EDITION (2023) FLORIDA BUILDING CODE

VERTICAL DATUM DIAGRAM

	MEAN HIGH WATER
0.31'	NAVD 1988
2.09'	
	MEAN LOW WATER
0.15'	MEAN LOWER LOW WATER

BASED ON NOAA TIDE STA. 872-2859 NAME: HILLSBORO

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: TYPICAL SECTION DETAILS

PREPARED FOR: Pompano Beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 W. ATLANTIC BLVD.
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.:41184
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PREPARED BY:
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Tel: (561) 243-4920
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160 Congress Park Drive, #114
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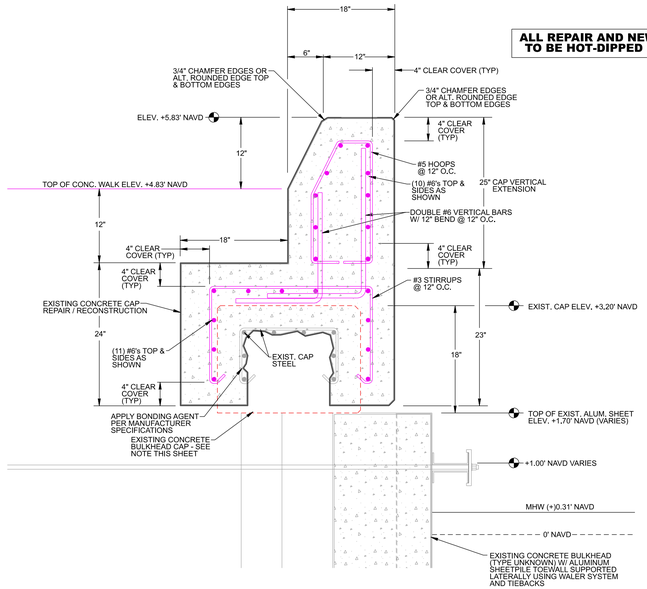
www.seadiversified.com

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	AS SHOWN
SHEET:	S-3

CADD ID:
TOTAL NUMBER OF SHEETS:

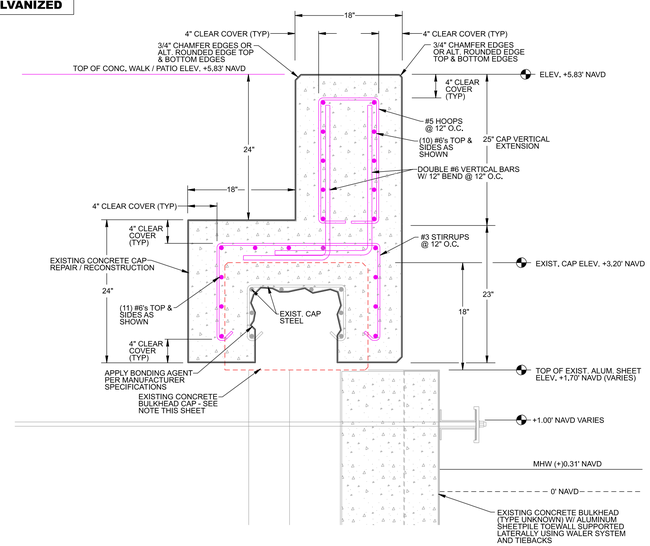
SDI P.N.: 24-3350

ALL REPAIR AND NEW CAP REBAR TO BE HOT-DIPPED GALVANIZED



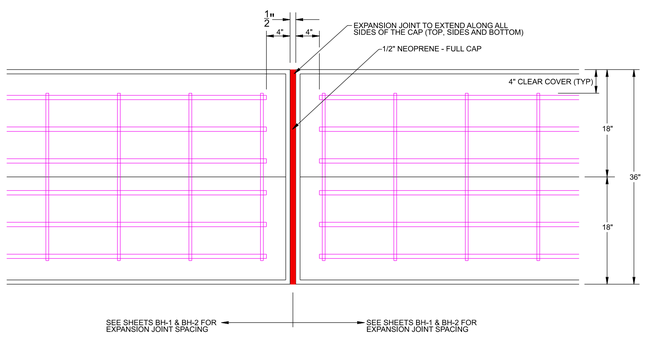
TYPICAL CAP SECTION A

SCALE: 1"=1'-0"



TYPICAL CAP SECTION B

SCALE: 1"=1'-0"



EXPANSION JOINT (EJ) DETAIL

SCALE: 1"=1'-0"

CONCRETE NOTES:

CONCRETE CAP:

1. 6,000 PSI
2. W/C < 0.40
3. 6% MICROSILICA BY WEIGHT OF BINDERS
4. APPLY MASTER BUILDER'S CONFILM PER MANUFACTURER'S INSTRUCTIONS IMMEDIATELY AFTER FINISHING. (NOTE CONFILM IS NOT A CURING COMPOUND)
5. CONTINUOUS WATER CURE EXPOSED SURFACES AS SOON AS SURFACE IS HARD.
6. APPLY CURING COMPOUND TO FORMED SIDES WITHIN 1 HOUR AFTER STRIPPING FORMS.
7. EXPANSION JOINTS (E.J.) LOCATED AS PER SHEETS BH-1 & BH-2. JOINTS TO BE ONE+HALF INCH, FULL-DEPTH GAP.

EXISTING CONCRETE CAP DEMOLITION NOTES:

SAWCUT, CHIP AND REMOVE SECTION OF CONCRETE CAP TO A DEPTH THAT EXPOSES THE STEEL REINFORCING STEEL WITHOUT DAMAGING THE STEEL. REMOVE ALL RUST AND SCALE BEFORE INSTALLING FORM WORK. SURFACE PREPARATION FOR ALL EXPOSED REINFORCING STEEL TO SSPC-SP3. PER SOCIETY OF PROTECTIVE COATINGS (SSPC) AND NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE). ADD AND / OR REPLACE DAMAGED REBAR AS PER THE DIRECTION OF THE ENGINEER. PRIOR TO PLACEMENT OF FORMWORK, CONTRACTOR TO SEEK APPROVAL OF THE ENGINEER FOR ASSURANCE OF PROPER SURFACE PREPARATION.

CONCRETE MIX SHALL BE STRENGTH 6,000 PSI WITH 0.39 WATER / CEMENT RATIO CONCRETE MIX DESIGN. A PROPER BONDING AGENT SHALL BE USED BETWEEN EXISTING AND NEW CONCRETE. FORMS SHALL BE STRIPPED WITHIN 24 HOURS OF POUR. A CURING COMPOUND SHOULD BE APPLIED IMMEDIATLY AFTER STRIPPING FORMS.

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
TYPICAL BULKHEAD CAP DETAILS

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

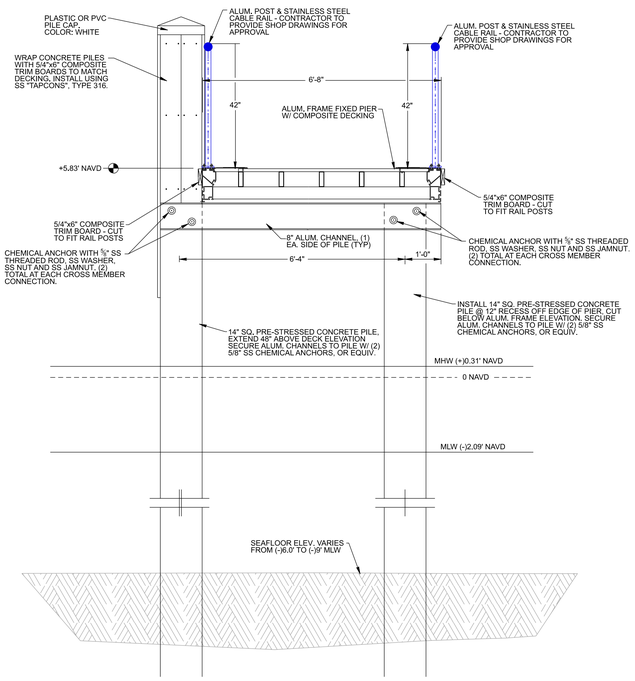
CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.:41164
Florida Registration No.: Inc.
C.A. License Number 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

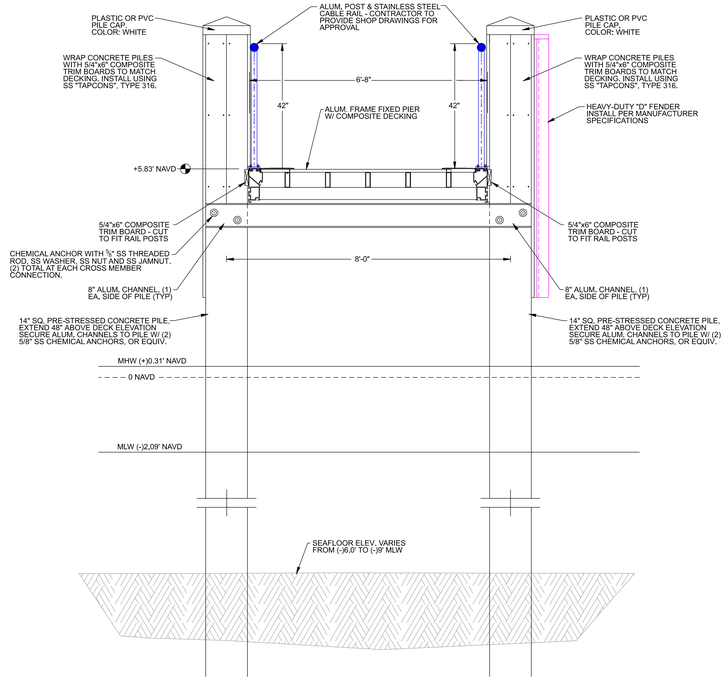
DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=1'-0"
SHEET:	S-4
CADD ID:	
TOTAL NUMBER OF SHEETS:	

SDI P.N.: 24-3350



TYPICAL WATER TAXI PIER SECTION H

SCALE: 1"=2'-0"



TYPICAL WATER TAXI PIER SECTION I

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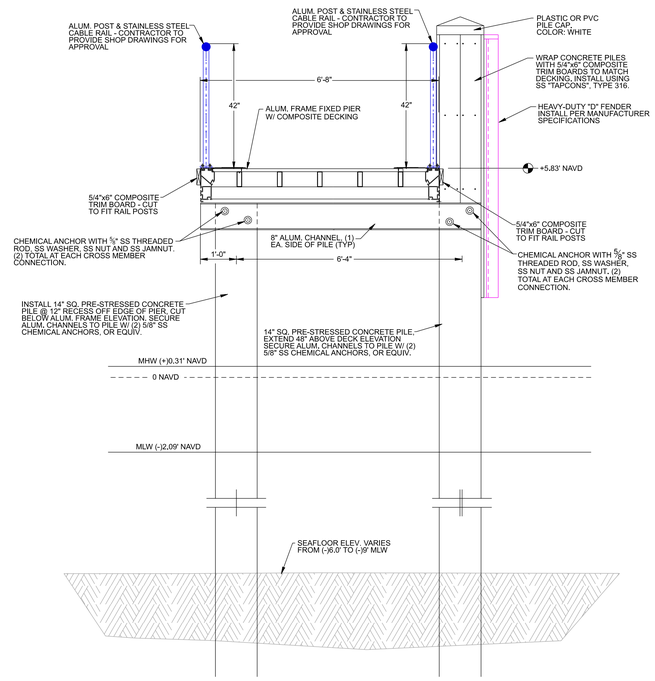
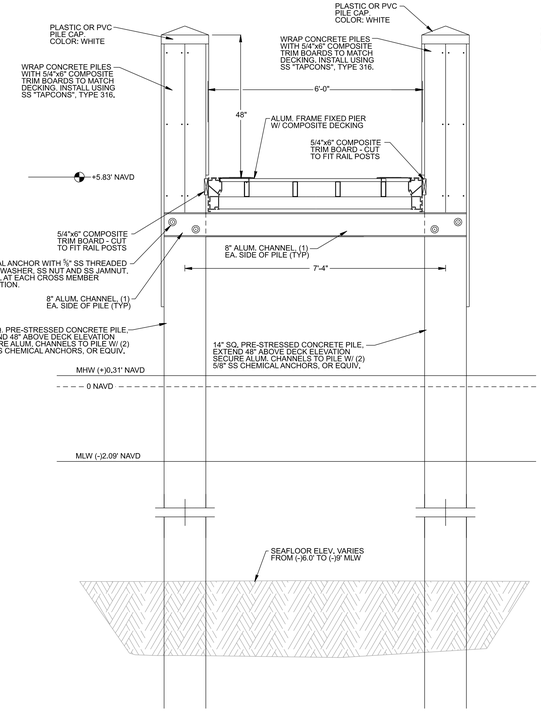


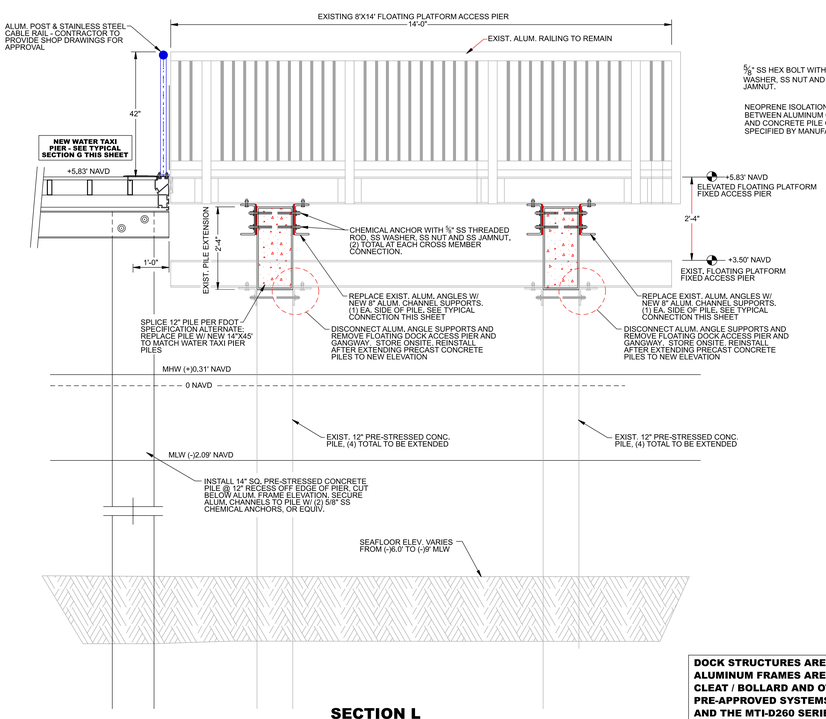
TYPICAL WATER TAXI PIER SECTION J

SCALE: 1"=2'-0"



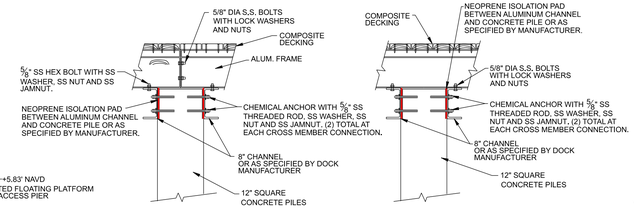
TYPICAL FINGER PIER SECTION K

SCALE: 1"=2'-0"



SECTION L
FLOATING PLATFORM ACCESS PIER MODIFICATION DETAIL

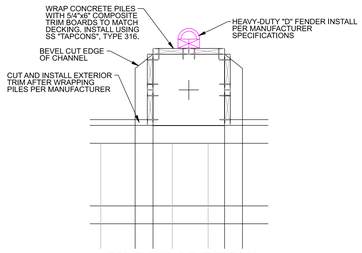
SCALE: 1"=2'-0"



ALUMINUM FRAME JOINT AND MID-SPAN CONNECTION DETAILS

N.T.S.

NOTE: CONTRACTOR TO INSTALL 1/8" NEOPRENE BUFFER PAD BETWEEN ALL ALUMINUM TO CONCRETE CONNECTIONS



PILE WRAP DETAIL

SCALE: 1" = 1'-0"

DOCK STRUCTURES ARE PRE-MANUFACTURED ALUMINUM PRODUCTS WITH COMPOSITE DECKING. ALUMINUM FRAMES ARE TO BE HEAVY-DUTY WITH DOUBLE TRACK EXTERNAL EXTRUSIONS FOR CLEAT / BOLLARD AND OTHER MARINA COMPONENT EASE OF INSTALLATION AND ADJUSTMENT. PRE-APPROVED SYSTEMS INCLUDE THE 950 SERIES DOCK AS SUPPLIED BY GOLDEN MARINE SYSTEMS AND THE MTI-D260 SERIES DOCK AS SUPPLIED BY MARINA TECHNOLOGIES, INC. DOCKS ARE TO BE INSTALLED PER MANUFACTURER'S CERTIFIED AND APPROVED SHOP DRAWINGS. ALL DETAILS DEPICTED ON THESE PLANS ARE TO SHOW THE GENERAL STRUCTURAL DETAILS ONLY AND ARE NOT MEANT TO BE USED FOR CONSTRUCTION. THE MANUFACTURER WILL PROVIDE SHOP DRAWINGS.

VERTICAL DATUM DIAGRAM

0.31'	MEAN HIGH WATER
	NAVD 1988
2.09'	
0.15'	MEAN LOW WATER
	MEAN LOWER LOW WATER

BASED ON NOAA TIDE STA. 872-2859 NAME: HILLSBORO

DESIGN CRITERIA

LIVE LOAD CRITERIA:
- 100 PSF, 400-LB POINT LOAD
- FIXED STRUCTURES
- PEDESTRIAN TRAFFIC ONLY

BERTHING LOAD CRITERIA:
- 3 FEET/SECOND (FPS)
- 10 DEGREE APPROACH ANGLE FOR SLIPS
- 30 DEGREE APPROACH ANGLE FOR SIDE & END TIES

WIND LOAD CRITERIA:
- LOADED, FULL OCCUPANCY: N/A
- UNLOADED, ZERO OCCUPANCY:
  - WIND SPEED: 156 MPH (3-SECOND GUST)
  - RISK CATEGORY I, EXPOSURE D PER ASCE/SEI 7-22

WAVE LOAD CRITERIA:
- SIGNIFICANT WAVE HEIGHT (Hs): 3.6 FEET
- WAVE PERIOD (Tp): 2.8 SECONDS

CURRENT LOAD CRITERIA:
- 2.0 FEET/SECOND (FPS)

WATER LEVEL DATA:
- MHW: +0.31 FEET NAVD
- MLW: -2.09 FEET NAVD

DESIGN WATER DEPTH:
- -6.0 FEET MLW (MARGINAL DOCKS & PIERS)
- -9.0 FEET MLW (WAHOO BAY FISHING PIER)

SERVICE LIFE: 30 YEARS

NOTES:
1. LIMITED FETCH BY USACE S.P.M. 1984
2. DURATION AVERAGE WIND (50 MINUTE)
3. BREAKING WAVE BY MINIKIN EQUATION
4. FIXED DOCKS TO COMPLY W/ 8TH EDITION (2023) FLORIDA BUILDING CODE

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
TYPICAL DOCK & PIER DETAILS

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 W. ATLANTIC BLVD.
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.: 41194
For: SEA DIVERSIFIED, INC.
C.A. License Number 25937

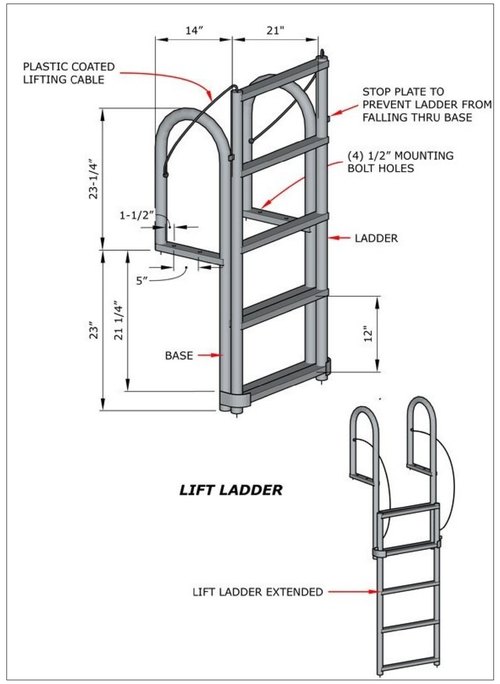
PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=2'-0"
SHEET:	S-5

CADD ID:
TOTAL NUMBER OF SHEETS:

SDI P.N.: 24-3350



TYPICAL LADDER DETAIL

(AS SUPPLIED BY INTERNATIONAL DOCK PRODUCTS, DOCK BUILDERS SUPPLY, OR EQUIVALENT)

TYPICAL WATER STANCHION

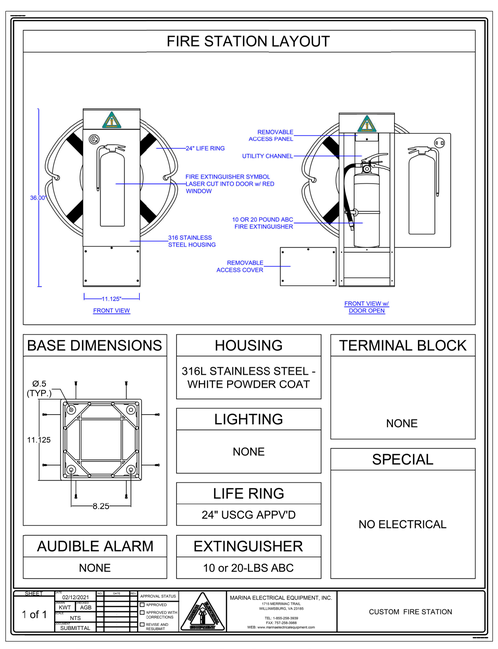
(AS SUPPLIED BY INTERNATIONAL DOCK PRODUCTS, DOCK BUILDERS SUPPLY, OR EQUIVALENT)

EXISTING ALUMINUM W/ STAINLESS STEEL CABLE RAIL SYSTEM

(CONTRACTOR TO MATCH FOR RAILS ON THE WATER TAXI DOCK, FISHING PIER EXTENSION & RAILS ALONG TOP OF BULKHEAD. ALL OTHER RAILS PER DETAILS PROVIDED, HEREIN.

TYPICAL FIRE EXTNGUISHER CABINET

(AS SUPPLIED BY MARINA ELECTRICAL EQUIPMENT, EATON CORPORATION OR EQUIVALENT)



TYPICAL FIRE EXTINGUISHER CABINET DETAIL (ALTERNATE WITHOUT LIGHT & ALARM)

(AS SUPPLIED BY MARINA ELECTRICAL EQUIPMENT, EATON CORPORATION OR EQUIVALENT)

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT:
HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE:
STANDARD DETAILS

PREPARED FOR:
pompano beach
Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 WEST ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.: 41184
Firm: SEA Diversified, Inc.
C.A. License Number 25937

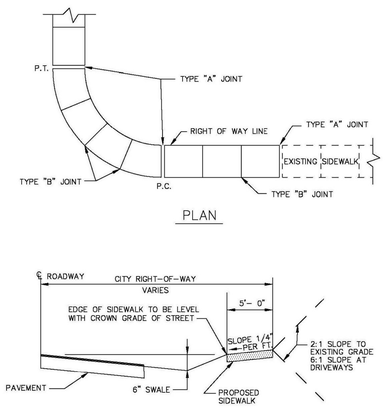
PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	M-1

CADD ID:
TOTAL NUMBER OF SHEETS:

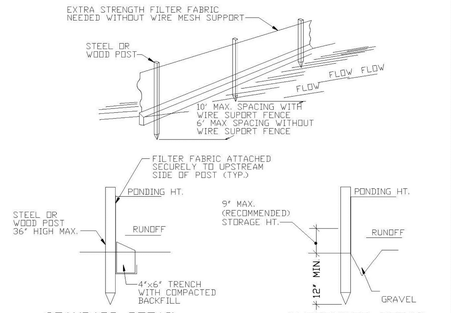
SDI P.N.: 24-3350



SIDEWALK DETAILS

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SIDEWALK DETAILS
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 301-1



STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

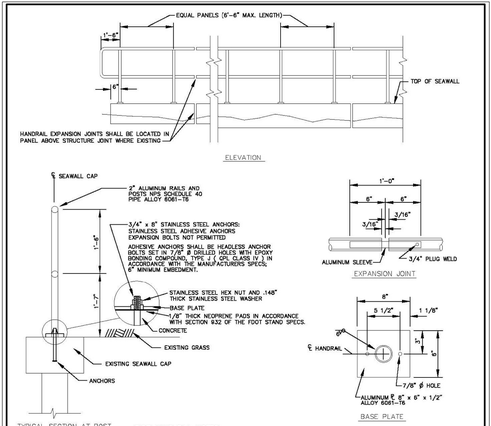
SILT FENCE

EROSION CONTROL GENERAL NOTES

1. SILT FENCE AND TURBIDITY BARRIERS MUST REMAIN IN PLACE AND BE MAINTAINED AT ALL LOCATIONS SHOWN IN THE DRAWINGS UNTIL CONSTRUCTION ID COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN.
2. CPMTRACTOR SHALL SUBMIT SCHEDULE FOR THE INSTALLATION, INSPECTION AND MAINTENANCE THE EROSION CONTROLS FEATURES AS SHOWN IN THE DRAWINGS OR AS DIRECTED BY THE DESIGN ENGINEER. THE SCHEDULE SHALL SPECIFICALLY SHALL SPECIFICALLY INDICATE THE SEQUENCE OF CLEARING, EARTH WORK OPERATIONS, AND WHEN THE EROSION CONTROL FEATURE WILL BE INSTALLED, INSPECTED, AND MAINTAINED. IT SHALL ALSO INCLUDE METHODS TO PREVENT POLLUTION OF STREAM, LAKES, TIDAL WATERS, CANALS, AND IMPOUNDMENTS. ESTABLISHED.

ENGINEERING STANDARDS 2019

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SILT FENCE
		SCALE: N.T.S.	DATE: MAY 2007 DWG. NO. 509-1



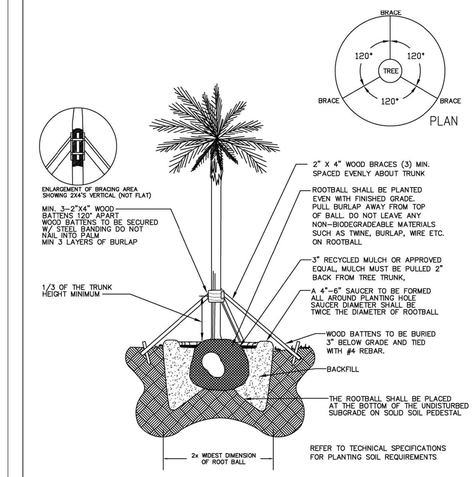
PIPE HAND RAIL NOTES

1. ALL FIXED JOINTS TO BE EITHER WELDED ALL AROUND AND GROUND SMOOTH; OR, COMMERCIALLY DESIGNED FIXED JOINT SYSTEMS (SOLDERED, BRAZED, FUSED, BONDED OR SHRINK FITTED) SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. MECHANICAL JOINTS OTHER THAN EXPANSION JOINTS ARE NOT PERMITTED UNLESS SPECIFIED ON THE PLANS OR APPROVED IN WRITING BY THE ENGINEER. POSTS SHALL BE CONNECTED TO BASE BY WELD ONLY. WELD FILLER TO BE ALLOY ER5356, ER5556 OR ER5183.
2. ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM A36 OR A307. NUTS, WASHERS, AND BOLTS TO BE STAINLESS STEEL IN CONFORMANCE WITH ASTM A193. AFTER THE NUTS HAVE BEEN TIGHTENED, THE ANCHOR BOLT THREADS SHALL BE DISTORTED ON THE NUTS AND BOLTS SPOT WELDED AND COATED WITH ZINC COMPOUND.
3. ALUMINUM HANDRAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 515 OF THE FDOT STANDARD SPECIFICATIONS. PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING HANDRAIL, INCLUDING MOUNTING HARDWARE, AND SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR PIPE HANDRAIL (ALUMINUM), MI.

ALUMINUM PIPE HANDRAIL

ENGINEERING STANDARDS 2019

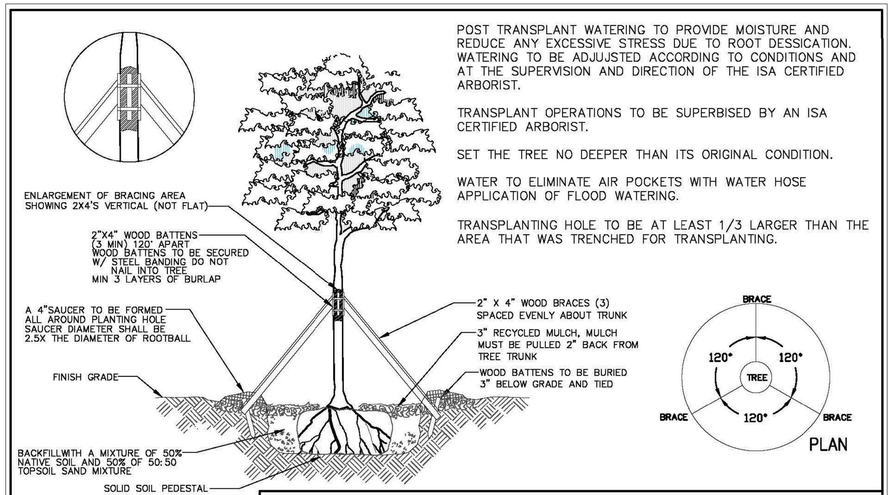
REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	ALUMINUM PIPE HANDRAIL
S.S.	1/31/12	SCALE: N.T.S.	DATE: MAY 2001 DWG. NO. 308-1



PALM PLANTING DETAIL

LANDSCAPE STANDARDS

REVISIONS BY	DATE	URBAN FORESTRY CITY OF POMPANO BEACH	PALM PLANTING DETAIL
TCW	APRIL 2010		APPROVED BY:
AS	01/2025	SCALE: N.T.S.	URBAN FORESTER
			DATE: JANUARY 2025 DWG. NO. 100-1



POST TRANSPLANT WATERING TO PROVIDE MOISTURE AND REDUCE ANY EXCESSIVE STRESS DUE TO ROOT DESSICATION. WATERING TO BE ADJUJSTED ACCORDING TO CONDITIONS AND AT THE SUPERVISION AND DIRECTION OF THE ISA CERTIFIED ARBORIST.

TRANSPLANT OPERATIONS TO BE SUPERBISED BY AN ISA CERTIFIED ARBORIST.

SET THE TREE NO DEEPER THAN ITS ORIGINAL CONDITION.

WATER TO ELIMINATE AIR POCKETS WITH WATER HOSE APPLICATION OF FLOOD WATERING.

TRANSPLANTING HOLE TO BE AT LEAST 1/3 LARGER THAN THE AREA THAT WAS TRENCHED FOR TRANSPLANTING.

LANDSCAPE STANDARDS

REVISIONS BY	DATE	URBAN FORESTRY CITY OF POMPANO BEACH	TREE RELOCATION DETAIL
TCW	APRIL 2010		APPROVED BY:
		SCALE: N.T.S.	URBAN FORESTER
			DATE: AUGUST 2010 DWG. NO. 106-1

TREE RELOCATION PROCEDURAL SPECIFICATION

Tree, Palm, Shrub and other Plant Transplanting/Relocating Detail – Recommended Notes:

The American National Standard for Tree Care Operations – Tree, Shrub, and Other Woody Plant Maintenance – Standard Practices (Transplanting) ANSI A300(Part 6)–2005 must be adhered to in its entirety for all relocating/transplanting of trees and shrubs. ANSI A300 (Part 6)–2005 includes the following:

60– Transplanting Standards
61 – Normative References
62 – Definitions
63 – Transplanting Practices

The transplanting objectives shall be established prior to beginning the operation. These objectives may be presented in a report format for permitting purposes.

A feasibility and suitability assessment shall be conducted prior to recommending transplanting. Specifications for transplanting should be based on the assessment. See the Checklist in Annex A of ANSI A300 (Part6)–2005. This assessment may be presented in a report format for permitting purposes.

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: CITY STANDARD DETAILS

PREPARED FOR: pompano beach Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 NE 3RD AVE, 7TH FLOOR
POMPANO BEACH, FLORIDA 33060

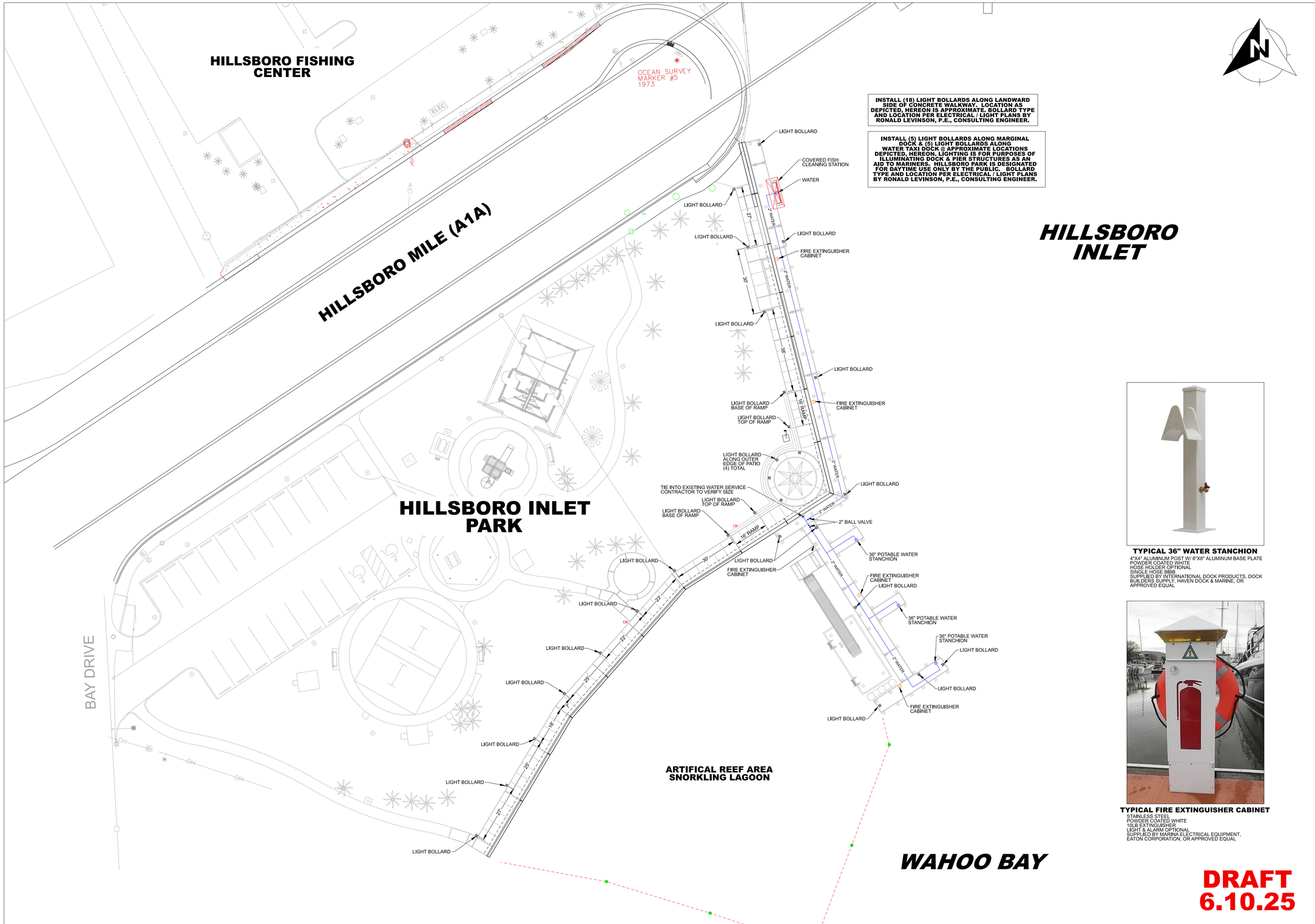
CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.:41184
For This Firm: SEA Diversified, Inc.
C.A. License Number 25537

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=10'
SHEET:	M-2

CADD ID:
TOTAL NUMBER OF SHEETS:
SDI P.N.: 24-3350



INSTALL (18) LIGHT BOLLARDS ALONG LANDWARD SIDE OF CONCRETE WALKWAY. LOCATION AS DEPICTED, HEREON IS APPROXIMATE. BOLLARD TYPE AND LOCATION PER ELECTRICAL / LIGHT PLANS BY RONALD LEVINSON, P.E., CONSULTING ENGINEER.

INSTALL (5) LIGHT BOLLARDS ALONG MARGINAL DOCK & (5) LIGHT BOLLARDS ALONG WATER TAXI DOCK @ APPROXIMATE LOCATIONS DEPICTED, HEREON. LIGHTING IS FOR PURPOSES OF ILLUMINATING DOCK & PIER STRUCTURES AS AN AID TO MARINERS. HILLSBORO PARK IS DESIGNATED FOR DAYTIME USE ONLY BY THE PUBLIC. BOLLARD TYPE AND LOCATION PER ELECTRICAL / LIGHT PLANS BY RONALD LEVINSON, P.E., CONSULTING ENGINEER.

TYPICAL 36" WATER STANCHION

4"X4" ALUMINUM POST W/ 8"X8" ALUMINUM BASE PLATE
POWDER COATED WHITE
HOSE HOLDER OPTIONAL
SINGLE HOSE BIBB
SUPPLIED BY INTERNATIONAL DOCK PRODUCTS, DOCK BUILDERS SUPPLY, HAVEN DOCK & MARINE, OR APPROVED EQUAL

TYPICAL FIRE EXTINGUISHER CABINET

STAINLESS STEEL
POWDER COATED WHITE
10LB EXTINGUISHER
LIGHT & ALARM OPTIONAL
SUPPLIED BY MARINA ELECTRICAL EQUIPMENT, EATON CORPORATION, OR APPROVED EQUAL

DRAFT 6.10.25

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: LIGHTING, WATER & FIRE

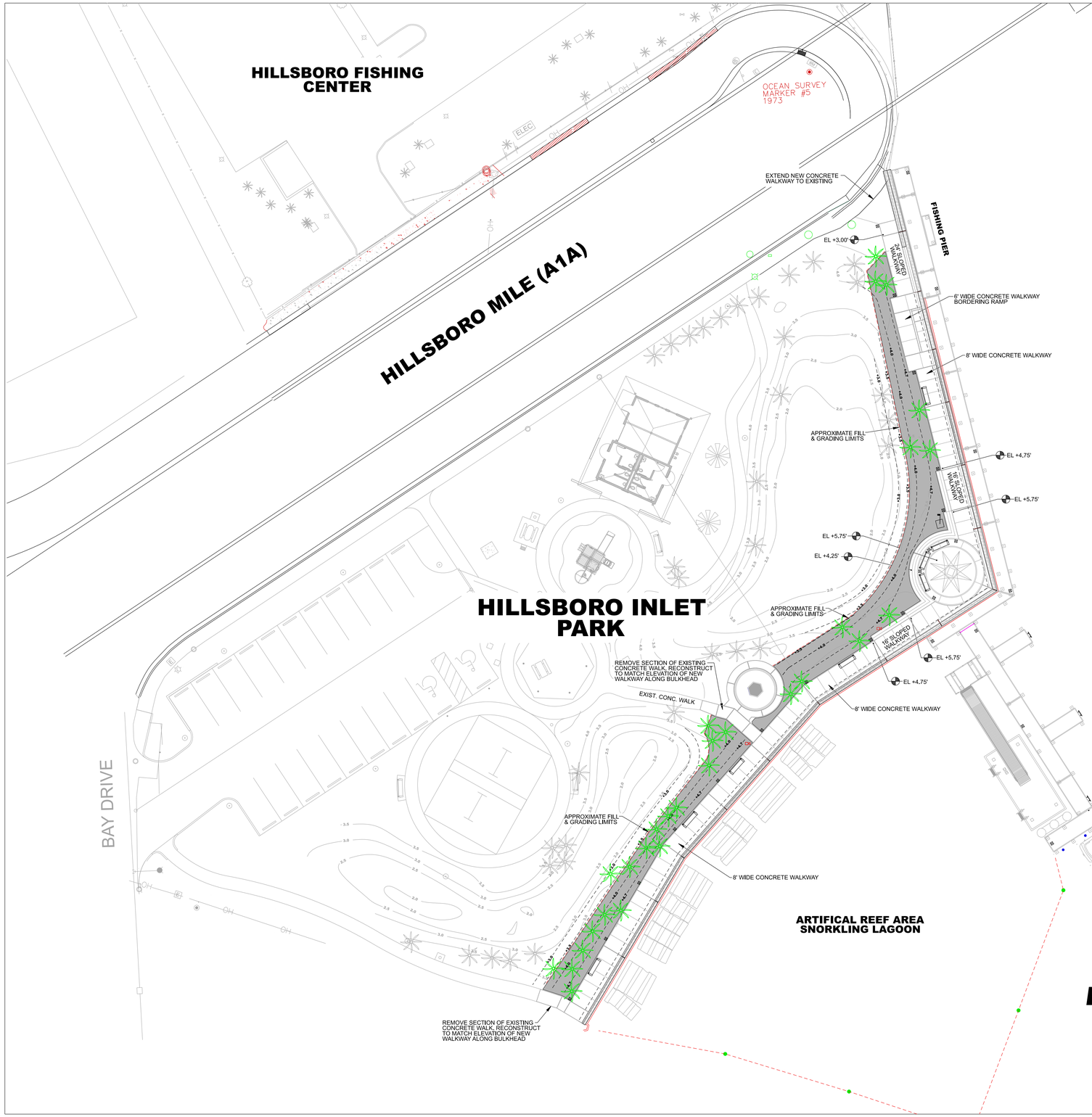
PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 W. ATLANTIC BLVD.
POMPANO BEACH, FLORIDA 33060

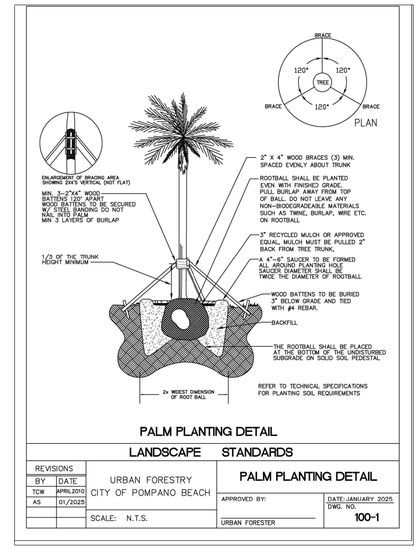
CERTIFICATION:
William T. Sadler, Jr. P.E.
Florida Registration No.: 41184
Ronald R. Levinson & Associates, Inc.
C.A. License Number 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'
SHEET:	U-1

CADD ID:
TOTAL NUMBER OF SHEETS:





PALM PLANTING DETAIL

LANDSCAPE STANDARDS

REVISIONS			
BY	DATE	URBAN FORESTRY CITY OF POMPANO BEACH	PALM PLANTING DETAIL
TCW	APRIL 2010		APPROVED BY: / DATE: JANUARY 2025
AS	01/2025		DWG. NO.
		SCALE: N.T.S.	URBAN FORESTER / 100-1

SHEET NOTES:

1. REFERENCE SHEET EX-1 FOR DEMOLITION AND SITE PREPARATION NOTES INCLUDING PLAN DETAILS.
2. AREA LANDWARD OF THE NEW CONCRETE WALKWAY TO BE FILLED WITH CLEAN GRANULAR FILL TESTED TO BE SUITABLE FOR RESIDENTIAL PURPOSES. SOURCE OF FILL TO BE PROVIDED TO THE CITY IN ADVANCE FOR APPROVAL. FILL MATERIAL MUST HAVE A WELL DRAINED CHARACTERISTICS FREE OF ROCKS, STICKS, WEEDS, AND ANY TYPE OF DEBRIS.
3. FILL AREA TO BE GRADED, COMPACTED AND PREPARED AS REQUIRED FOR SOD PLACEMENT. CONTRACTOR TO COORDINATE WITH THE CITY REGARDING EXISTING IRRIGATION SYSTEM, TYPE OF SOD PER CITY AND/OR TO MATCH EXISTING CONDITIONS.
4. CONTRACTOR TO PROVIDE ASBUILT SURVEY OF FINAL FILL AND GRADING PRIOR TO SOD PLACEMENT, AS WELL AS REPLACEMENT OF PARK FEATURES (STATUES, SIGNAGE, PLAQUES, ETC).
5. CONTRACTOR TO REPLANT EXISTING PALM TREES REMOVED AS PART OF THE DEMOLITION PHASE OR PROVIDE NEW. TREES TO BE REPLANTED AT THE APPROXIMATE ORIGINAL LOCATION UNLESS CONFLICTING WITH NEW CONSTRUCTION OR DIRECTED OTHERWISE BY THE CITY. TOP OF PLANT BALL SHALL BE FLUSH WITH THE SURROUNDED GRADE. TEMPORARILY BRACE TREES PER CITY SPECIFICATIONS COPIED, HEREON AND RESTORE IRRIGATION TO SUPPORT THE REPLANTED TREES. CONTRACTOR TO COORDINATE WITH THE CITY REGARDING POINTS OF CONNECTION TO EXISTING IRRIGATION.
6. SOD SHALL BE LAID ON A SMOOTH PLANTING BASE THAT HAS BEEN GRADED IN ACCORDANCE WITH THE PLANS. CONTRACTOR SHALL ENSURE A SMOOTH TRANSITION TO EXISTING GRADES. ALL SOD SHALL BE LAID WITH CLOSELY FITTED JOINTS AND SHALL BE IN A GREEN AND HEALTHY GROWING CONDITION AT TIME OF PLANTING.
7. ALL LANDSCAPING SHALL BE IRRIGATED BY A FULLY AUTOMATIC SYSTEM ADJUSTED TO PROVIDE 150% COVERAGE OF ALL LANDSCAPE AREAS WITH MINIMUM 50% OVERLAP.
8. ALL LANDSCAPING SHALL BE CONDUCTED BY A QUALIFIED LANDSCAPE CONTRACTOR MEETING ALL LOCAL LANDSCAPE CODES.
9. REFERENCE SHEET EX-1 FOR TREE ASSESSMENT AND MITIGATION SUMMARY PREPARED BY PLANW3ST.

LEGEND

⊠	LED LIGHT BOLLARD
	PARK BENCH
	EXISTING PALM TREE TO REMAIN
	EXISTING PALM TREE TO BE REMOVED, SALVAGED AND REPLANTED AFTER FILL AND GRADING
	FILL AND REGRADING AREA (4150 SF+/- (0.10 AC+/-)
+4.7	PROPOSED GRADE

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

SDI P.N.: 24-3350

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: LANDSCAPE PLAN

PREPARED FOR: pompano beach. Florida's Warmest Welcome
CITY OF POMPANO BEACH
100 NORTH ATLANTIC AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION: William T. Sadler, Jr., P.E. Florida Registration No.: 41164 SEA DIVERSIFIED, INC. C.A. License Number: 25937

PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	1"=20'
SHEET:	L-1
CADD ID:	
TOTAL NUMBER OF SHEETS:	

TECHNICAL SPECIFICATIONS
Prepared by Sea Diversified, Inc.
Date: June 25, 2025
Prepared to Accompany Plans prepared by Sea Diversified, Inc. dated June, 2025.

ARTICLE 1 - PROJECT DESCRIPTION

1. The project includes repairs to the concrete bulkhead, which includes demolition and reconstruction of the existing concrete cap at a higher elevation. The project also includes the replacement of existing timber piers along with the addition of a new marginal dock. The new piers and dock will be pre-manufactured aluminum frame fixed frame systems supported by new concrete piles. Along with the replacement of the bulkhead, the project will include removal and replacement of the concrete walkway bordering the landward side of the bulkhead cap. The new walkway will be rebuilt wider and at a higher elevation. Aluminum frame fixed docks must be supplied by a qualified aluminum dock manufacturer, herein referred to as the MANUFACTURER, with demonstrated experience in the design and fabrication of aluminum frame marine structures of similar type to the project. The extent of the project is shown on plans prepared by Sea Diversified, Inc. (ENGINEER).

   The MANUFACTURER is responsible for the design, fabrication and delivery of fixed aluminum docks and associated dock components such as cleats, fendering and applicable hardware and installation components. The CONTRACTOR shall be responsible for the installation of the pre-manufactured aluminum frame structures including all support piling in accordance with MANUFACTURER supplied shop drawings and Installation Manuals. Plans and specifications prepared by the ENGINEER, as pertaining to the installation of pre-manufactured aluminum frame structures show the general extent of work. Installation of aluminum frame structures shall be in strict accordance with shop drawings, Installation Manuals and / or as dictated by the MANUFACTURER.
2. The CONTRACTOR is required to coordinate and cooperate with the MANUFACTURER, CITY staff and consultants pertaining to all components of the project including but not limited to product manufacturing delivery schedules, utility installations and project inspections. Additionally, the CONTRACTOR must note and understand that the project may be conducted while existing Park activities are ongoing and such activities must be maintained with little or no disruption.

ARTICLE 2 - GENERAL NOTES

1. All elevations are in feet and referenced to the North American Vertical Datum of 1988 (NAVD 88) or Mean Low Water (MLW), as specifically noted on the plans.
2. Any deviation from these plans, notes or specifications must be approved in writing by the ENGINEER, or else the deviation will be considered construction not in compliance with the plans and specifications.
3. Any discrepancies among the plans, notes, specifications and other bid documents must be resolved in writing by the ENGINEER prior to continuing the work in question.
4. These plans, notes and specifications, along with the other components of the project documents, constitute the only instructions to the CONTRACTOR, unless written addenda are issued.
5. All construction, manufacturing, fabrication and testing of materials shall be performed under the guidelines set forth in applicable local, state and federal codes, and/or under recommendations provided in technical publications of respected professional or industry organizations. Material testing programs, where applicable, shall be presented to the ENGINEER for review and approval prior to construction.
6. All products constructed or manufactured/supplied for the project shall be accompanied by industry acceptable warranties or guarantees.
7. CONTRACTOR must attend a kick-off meeting with the ENGINEER, Representative(s) of the CITY, subcontractors, MANUFACTURER and others requested by the CITY to discuss critical items prior to commencing with construction.

ARTICLE 3 - MOBILIZATION AND DEMOBILIZATION

1. It is understood that the nature of the project will require work over water and access to construction areas are required for material storing, hauling, erection or construction. All facilities, public or private, used for such purposes shall be maintained and repaired to the original form after completion of project activities.
2. The CONTRACTOR shall present a Shipping, Stockpile and Administration Plan (SSAP) to the ENGINEER for approval. The plan shall be specific to the project requirements for the particular materials to be delivered to the site, describing delivery points, stockpile areas, temporary debris/trash storage areas, temporary field office (incl. utilities maintained there), fencing, security and a statement of commitment to maintaining safety on the site.
3. The CONTRACTOR shall note that the MANUFACTURER will have designated and pre-established areas for product delivery, storage, assembly and possibly manufacturing, all or in part. The CONTRACTOR's staging plan must be prepared in coordination with the MANUFACTURERâ€™s staging plan to avoid conflicts during construction.
4. The CITY or ENGINEER shall have the right to exercise reasonable alterations or additions to the plan (SSAP).
5. The site surroundings shall be returned to original grade and topping (sod, tree cover, established road, etc.) following "Completion" of the project. "Completion" is defined as completion of an agreed upon list of punchlist items compiled in a planned project walkthrough held at a time the CONTRACTOR considers the project to be "Substantially Complete".
6. It is the CONTRACTOR's responsibility to coordinate, and pay for, necessary utilities to occupy the site and perform the work.

ARTICLE 4 - SITE MAINTENANCE AND SAFETY

1. The CONTRACTOR shall maintain a clean and neat site, void of loose debris, trash, remnant parts or materials.
2. Trash receptacles and removal service shall be maintained by the CONTRACTOR specifically for this project. Existing such facilities shall not be used to maintain the project.
3. Temporary debris piles shall be limited in number as much as practical and contained in designated areas until removal. Debris and trash shall not be scattered in areas outside the limited designated areas at any time.
4. Removal of debris/trash shall be scheduled as appropriate to not allow piles to reach five feet in height or greater than ten feet in diameter. Debris individually larger than these dimensions shall be removed from the site within five working days. Receptacles shall not be allowed to overflow at any time.
5. The CONTRACTOR shall prepare and submit a Maintenance of Traffic Plan that applies to vessels, vehicles and pedestrians. The plan must be in writing, including sketches or drawings, and must be submitted to the ENGINEER for review and approval before commencement of the plan.
6. The CONTRACTOR shall note that this project consists of work adjacent to a typical park activities that will continue to operate and be open to the public to some extent during construction. The safety of pedestrians, CITY staff is of primary concern and must be addressed by the CONTRACTOR. The CONTRACTOR shall prepare a safety plan for approval by the ENGINEER and CITY.
7. Where applicable, CONTRACTOR to use steel/kevlar boots, long sleeve pants, gloves, hardhat, safety kit, etc.
8. CONTRACTOR to make note of nearest hospital and quickest route.
9. CONTRACTOR to assure availability of at least one working cell phone and one serviceable vehicle on site at all times.
10. The CONTRACTOR shall follow all applicable local, state and federal codes regarding site safety and maintenance.

ARTICLE 5 - ENVIRONMENTAL

1. A Florida Department of Environmental Protection (FDEP) Permit, U.S. Army Corps of Engineers (USACE) Permit and Broward County License exert jurisdiction of the project. The CONTRACTOR shall request all permits prior to the start of construction from the ENGINEER or the CITY and review prior to any construction activities.
2. The CONTRACTOR shall be responsible for complying with applicable restricting permit conditions imposed by the state, federal government and the County.
3. The CONTRACTOR shall pay particular attention to the standard state conditions for manatee protection during construction and shall comply with them fully.

ARTICLE 6 - GEOTECHNICAL

1. A geotechnical study was conducted by Nutting Engineers that included a single Standard Penetration Test (SPT) boring at an upland location in close proximity to the bulkhead.
2. Should the CONTRACTOR encounter sub-surface soil conditions that differ from that described in the Geotechnical Report prepared by Nutting Engineers, dated July 2020, or from the results of the field test programs, the CONTRACTOR shall cease operations and promptly notify the ENGINEER.
3. The CONTRACTOR in coordination with the ENGINEER may be responsible for a test pile program to verify sub-surface soil characteristics related to pile driving characteristics. Details of the optional Test Pile Program are outlined, herein.
4. The CONTRACTOR shall note that the sub-surface soil conditions may vary throughout the project area and that piles are to be driven to achieve the required pile penetration dictated by the ENGINEER regardless of soil conditions. The CONTRACTOR must note that there is no provision for encountering unforeseen soil conditions.

ARTICLE 7 - CONSTRUCTION SURVEYING

1. The CONTRACTOR is responsible for horizontal / vertical control establishment, construction layout or any other survey effort required to complete the project. If requested by the CONTRACTOR, the ENGINEER will provide the CONTRACTOR existing site benchmark information for reference.
2. Method of continuing layout and control of work to be submitted to ENGINEER for approval prior to beginning construction.
3. The CONTRACTOR is advised that certification of the project elevation and alignment is required for final acceptance of work.
4. The CONTRACTOR will be required to provide a final Asbuilt survey after construction. The survey must be conducted and certified by a State of Florida licensed Surveyor and Mapper.

ARTICLE 8 - CONSTRUCTION SEQUENCING AND HOURS OF OPERATION

1. The CONTRACTOR shall provide a schedule that details the proposed sequence of construction with estimated number of calendar days and milestones for major components of work. The ENGINEER shall be notified in advance of any intended changes to construction sequencing, required alterations to overall project schedules or deviations from projected milestone dates.
2. The CONTRACTOR shall note that the CITY may limit hours of operation and require the CONTRACTOR to schedule daily work activities as necessary to minimize disruption to Park activities. Operations, including but not limited to pile driving, or other crane / large equipment related activities and activities that produce excessive noise, vibration, dust or other air quality impacts, may be limited to specific timeframes when working in proximity to certain facilities. The CONTRACTOR can work Monday through Friday, as typical, until 5:00 PM, noting that noise, vibration and air pollution must be controlled to minimize impact to the ongoing Park activities. The CONTRACTOR's bid shall take into account possible construction delays caused by temporary and partial suspensions of work relating to ongoing Park and activities as noted in this paragraph.

ARTICLE 9 - DEMOLITION AND RESTORATION

1. The CONTRACTOR shall acquire all necessary building permits from the CITY prior to commencing work.
2. Demolition work shall be conducted in accordance with plans prepared by the ENGINEER.
3. Upon completion of construction, the site shall be restored by removing and finishing all evidence of construction including temporary haul roads, stockpile areas and all other areas used for construction.

ARTICLE 10 - FIXED ALUMINUM DOCK SYSTEMS

1. The size, geometry and location of fixed aluminum structures is as depicted on the plans. Fixed dock system shall include pre-manufactured dock frames with decking, utility troughs, cleats, fendering and installation hardware. The fixed dock system and all described components shall meet or exceed criteria specified or as indicated on the Drawings. Fixed docks shall be as manufactured by Golden Marine Systems (GMS), Marina Technologies, Inc. (MTI), or approved equal. Aluminum frames shall be heavy-duty, double track systems equivalent to the 950 Series supplied by GMS, Type D260 as supplied by MTI, or equal.
2. Aluminum frames shall be pre-fabricated and supplied in pre-determined sizes as described on the plans. Aluminum frames shall be delivered with decking unless otherwise specified by the MANUFACTURER.
3. Engineering Report: MANUFACTURER shall submit for approval design data for the fixed dock system. This shall be compiled in an Engineering Report that details the results of the fixed dock system analysis as outlined, herein. The Engineering Report shall be prepared and certified by a Licensed Professional Engineer registered in the State of Florida. Professional Engineers licensed in State(s) other than Florida must be approved in advance by the CITY. The Engineering Report and/or other required technical submittals, as outlined in the specifications, herein, must be provided within thirty (30) days of date of contract between CITY and CONTRACTOR, unless otherwise specified by the CITY. MANUFACTURER design data shall demonstrate that all items to be secured to the fixed dock system, either internal to the structural framing or above deck including all conduit and piping, electrical / potable water pedestals, fire standpipes and fire extinguisher cabinets, have been accounted for in the required system structural analysis.
4. Shop Drawings: The fixed docks shown in the plans shall be considered schematic in nature showing the dimensions and location of the docks in plan view. The MANUFACTURER shall provide final design details in a set of shop drawings addressing all pertinent fixed dock system specifications. Shop drawings shall be certified by a Licensed Professional Engineer registered in the State of Florida. Professional Engineers licensed in State(s) other than Florida must be approved in advance by the CITY. Certified shop drawings, pursuant to the specifications, herein, must be provided within thirty (30) days of date of contract between CITY and CONTRACTOR, unless otherwise specified by the CITY. Shop drawings shall depict the layout of all docks and be fully dimensioned. In addition, and at a minimum, shop drawings shall include the following:
   * Material type and grade, bolt sizes, welding, coatings, colors, and other product makes and models.
   * Material type of decking and attachment details.
   * Details of all utility routing and attachment.
   * Attachment details of all above deck permanent items.
   * Specifications including attachment details for cleats, fendering, cross members and ladders.
   * Location, specifications and layout of piling.
   * Shop drawings shall clearly specify the design criteria used by the MANUFACTURER's engineer for the design of the fixed dock system including but not limited to dead / live load criteria; maximum wind speed; storm surge; wave parameters; and current velocity. Design criteria shall indicate the criteria used for both occupied and unoccupied conditions.
5. General Design Parameters: The fixed dock system shall be designed to withstand the physical conditions and surroundings associated with the project site(s). It shall be the responsibility of the MANUFACTURER to evaluate the site conditions as relating to the design of the fixed dock system and to verify such factors as water depth, tidal current conditions, vessel traffic and boat wake, typical wind-driven wave conditions and characteristics of expected use of the proposed fixed docks on a day-to-day basis.

   The fixed dock system without boats in place (unoccupied) shall be designed to withstand forces from a Category 4 Hurricane and associated storm surge, wind and waves. The numerical values for surge, wind, wave height, wave period and wavelength shall be provided by the ENGINEER, however it shall be the responsibility of the MANUFACTURER's engineer to review and verify this information prior to commencing the system analysis. These numerical values will serve as a record for assessing performance of the fixed dock structures over the twenty-five (25) year minimum life expectancy of the system.
6. Design Loads: The engineering analysis shall take into consideration all storm loading conditions specified above, as well as dead loads and live loads. Live load design criteria shall be 100 psf.
7. Aluminum framing: Aluminum extrusions and other components shall be marine grade aluminum alloy 6061-T6.
8. All hardware shall be stainless steel type 316.
9. Decking shall be 1.25" x 5.5" Wear Deck" reinforced polymeric decking, "sand" color, or approved equal. Live load capacity of decking based on a maximum span of 16" shall be 125 psf. Decking shall have a slip and wear resistant surface. Additionally, the decking material shall be rot-and warp-resistant and splinter free. The decking material supplier must provide a standard 25-year warranty for the product. Decking shall be installed with stainless steel, type 316 screws, two (2) each at all stringer locations. Screws shall be countersunk.

ARTICLE 11 - CLEATS AND LADDERS

1. Cleats shall be a minimum of cast-aluminum 15-inch, heavy-duty straight cleats. Cleats shall be stamped or embedded with the name, logo or other identification marking as dictated by the CITY. Cleats shall be of the type and size to withstand the horizontal forces of the largest vessel to occupy floating dock under the design parameters specified, herein. Number and location of cleats are depicted on the plans.
2. The MANUFACTURER shall provide aluminum ladders. Number and location of ladders shall be dictated by the CITY. Ladders shall have a minimum 250-lb capacity and be made of marine-grade, aluminum alloy, type 6061-T6 or 6063. No other metals or aluminum alloy types will be considered.

ARTICLE 12 - DELIVERY, HANDLING, STORAGE AND INSTALLATION

1. Delivery: The MANUFACTURER shall be responsible for delivery of the fixed dock structures and all other pre-manufactured products. The products shall be delivered as pre-assembled modules to facilitate offsite or onsite unloading and installation. The MANUFACTURER shall take all precautions to ensure that the products are not damaged during transport to the project site. The ENGINEER or CITY's representative will inspect the condition of the products upon arrival to the site. Damaged products shall be rejected and removed from the site at the expense of the CONTRACTOR or MANUFACTURER. All products shall be delivered with an Installation Manual including all necessary hardware for the assembly and installation of the systems. The installation manual shall include all instructions, drawings and part sheets necessary for the assembly and installation of the system.
2. Offloading, Deployment and Installation: All products shall be offloaded and either stored at a secure upland location or immediately installed by the CONTRACTOR as per the handling and installation specifications provided by the MANUFACTURER. The CONTRACTOR will be responsible for the installation of the products in accordance with MANUFACTURER supplied shop drawings, Installation Manuals and other technical information, as applicable.

   The MANUFACTURER will deliver the pre-manufactured products to the site or designated offsite staging area via truck. It will be the CONTRACTOR's responsibility to provide personnel and equipment to offload MANUFACTURER supplied products and install the systems as per the MANUFACTURER's approved shop drawings and pile specifications. The CONTRACTOR is responsible for any or all damage to the products during the offloading and installation processes. If not moved and installed immediately at the design location, the CONTRACTOR is responsible for storage of the products in such a manner to avoid damage. The CITY will not be responsible for damages caused by the handling or storage of the delivered products.
3. MANUFACTURER Representation: The MANUFACTURER shall provide a qualified representative onsite, as they deem necessary, during the offloading, assembly and installation of the products. The MANUFACTURER's representative shall be onsite during the installation of the systems to ensure that the product is handled and installed in strict compliance with the MANUFACTURER's shop drawings and Installation Manual. No less than two (2) site visits per month are anticipated by the MANUFACTURER's representative to inspect work completed by the CONTRACTOR and overall project progress. The CONTRACTOR shall be responsible for requesting additional support from the MANUFACTURER. The CONTRACTOR will be responsible for the costs of any special requests for onsite visits, meetings and inspections by the MANUFACTURER.
4. CONTRACTOR - MANUFACTURER Coordination: The CONTRACTOR is responsible for coordination with the MANUFACTURER regarding installation procedures and schedules. In advance of construction, the CONTRACTOR must request from the MANUFACTURER final certified shop drawings, installation manuals and other technical information, as necessary. The CONTRACTOR, in coordination with the MANUFACTURER, must prepare and submit a schedule for the installation of the products to the CITY for approval. It shall be the CONTRACTOR's responsibility to coordinate the installation schedule with the MANUFACTURER's delivery schedule at all times during construction. The CITY will NOT be responsible for any delays caused by the MANUFACTURER's delivery schedule as pertaining to the CONTRACTOR's installation schedule. Equally, the CITY will NOT be responsible for any delays caused by the CONTRACTOR that impacts the MANUFACTURER's fabrication, and delivery schedule. The MANUFACTURER will provide onsite representation during the product installation to assist, as necessary.

ARTICLE 13 - WARRANTY

1. The aluminum structures (Systems), including all structural and utility components, shall be designed for a minimum twenty-five year life expectancy. The deck, sidewalls, structure framing and other components of the Systems shall be delivered to the site free of cracks, corrosion, blemishes, broken or bent parts, uneven or non-fitting parts, missing or non-correct parts. A MANUFACTURER's Warranty shall be issued and go into effect upon acceptance by the CITY. The warranty shall be continuously effective for ten (10) years after acceptance. Subject to conditions at or below the specified design conditions, the warranty shall include, but not be limited to, the following items:
   * Repair or replacement of the product or components of the project due to failure or damage resulting from any or all conditions that fall within the design criteria outlined in the Specifications. This includes damages caused by live loads, wind, currents, waves, surge, vessel impact, storm and hurricane events. Components to be warranted include but are not limited to aluminum structural members or special extrusions (i.e. utility troughs), decking material, pile guides, cleats, fendering, handrails and hardware.
   * Repair or replacement of the product or components of the product due to deterioration caused by corrosion from typical marine environmental conditions.
   * Full repair or replacement cost including product manufacturing, system components, materials, hardware, taxes, shipping and handling and all required labor for removal of or repairs to damaged product and installation of new product. The MANUFACTURER may not devalue the product or components of the product based on years in service from the date of final product acceptance.
   * The warranty shall remain effective for the full ten (10) year term with no option by the MANUFACTURER to refund to the CITY the original purchase price, or devalued price based on number of years in service from the date of final product acceptance.
   * The Warranty must state that the CITY will be notified in advance of any discontinued parts or components of the dock system, especially proprietary parts or components, to allow sufficient time for the CITY to procure, through separate Purchase Order, such spare parts or components for stocking in case of need through the 10-Year term of the Warranty.

ARTICLE 14 - CONCRETE PILES AND PILE DRIVING

1. All piles shall be 12" or 14" square prestressed concrete, minimum 6,000 psi, eight (8) prestressed strands, #5 spirals and three inches of clear concrete cover to the outside of the spirals in all sides meeting or exceeding FDOT standards for concrete piles to be driven in salt water conditions. The exposed side of the pile in forming shall be finished smooth and corners shall have 3/4" chamfer, or be rounded in the case of the typical FDOT piling. Final design and shop drawings shall be the responsibility of the CONTRACTOR, both of which must be reviewed by the ENGINEER. FDOT specification, with modifications or criteria above, is acceptable.
2. Piles shall be final designed and driven to meet the load rating necessary for each and the minimum penetration dictated by the ENGINEER. Piles shall be driven full length, or to a tip elevation where specified. It shall be the CONTRACTOR's responsibility to verify and guarantee that the specified pile bearing or lateral capacity is met. The CONTRACTOR's verification may be one of the following:
   * providing an equation, chart or table from the pile-driving hammer manufacturer relating bearing capacity to that particular hammer's "blows per foot".
   * performing a test pile program to the satisfaction of the ENGINEER.
   * providing a certified, engineered foundation design based on actual soil borings for the site.
3. The CONTRACTOR will be required to maintain a pile driving log to document the pile driving characteristics of all piles. Pile driving logs must be conducted by an independent engineering firm or geotechnical testing facility retained and paid for by the CONTRACTOR. The CONTRACTOR's bid shall include the cost of independent monitoring and preparation of field logs / reports pertaining to the installation of piles. Field logs and pile driving reports must be submitted to the CITY and/or ENGINEER on a daily basis or immediately following the installation of piles unless otherwise directed by the CITY. The pile driving logs shall include the following minimum information: date, time, weather conditions, equipment used, pile location designation, blows per foot over entire driving sequence, total length of pile, embedment length, un-cut top of pile, length of amount cut off, final elevation of top of pile (after driving and cut-off), amount of jetting or punching (if required), unusual pile behavior, damage and re-driving.
4. Jetting of piles is not permitted except only as necessary, and then must be approved by the ENGINEER prior to performing the jetting.
5. If solid rock, debris or refusal is encountered prior to achieving the minimum penetration, the CONTRACTOR shall use drilling equipment to achieve the required penetration dictated by the ENGINEER. Any deviation from the specified penetration due to sub-surface rock conditions must be approved by the ENGINEER.
6. Piles shall be handled and driven in a manner that does not damage the piles. Damaged piles must be removed, discarded and replaced at the CONTRACTOR's expense.

ARTICLE 15 - CONCRETE TEST PILE PROGRAM FOR COMPRESSION (AXIAL LOAD) - OPTIONAL:

1. At the discretion of the CITY in coordination with the ENGINEER, the CONTRACTOR shall perform a test pile program to determine the adequacy of the piles in compression. A minimum of two (2) test piles shall be placed in locations approved by the ENGINEER. An effort shall be made to evenly distribute the test piles over the site where production piles are required. Pile testing may be performed from the land or from a barge.
2. Test piles shall be of similar material, finish and size in cross-section to those in the design specifications, and of the same strength and number of strands. Test piles may be used as production piles if inspected and approved for use by the ENGINEER.
3. The ENGINEER may have specified pile lengths and embedment based on limited soils information. The ENGINEER will provide the design axial capacity for the test. The CONTRACTOR shall verify the bearing capacity of the test pile meets or exceeds the design value by one of the following methods:
   A. For a standard, drop-hammer type pile driver, use the Engineering News Record equation for calculating bearing capacity based on the average last five (5) blows per foot. Any other equations used must be supported with documentation approved by the ENGINEER.
   B. For piston or dynamic hammers not applicable with the Engineering News Record equation, use an equation or calibration chart as provided by the manufacturer of the hammer to relate bearing capacity to blows per foot.
   C. Install a test pile and load the pile in tension and/or compression to verify that it satisfies the design bearing capacity. A calibrated gauge must be used in conjunction with this method. If a test pile or the soil fails under an applied test load with an embedment less than specified in the plans, then the pile shall be removed, re-driven and re-tested at the CONTRACTOR's expense.
4. The CONTRACTOR shall be responsible for providing all materials and labor to perform the tests. The test program, equipment and subcontractors required shall be presented to the ENGINEER for review prior to scheduling and/or purchasing for the actual test. Access to the test area and allowance for independent measurements and gauge readings shall be allocated. The CONTRACTOR shall give at least 48 hours notice prior to performing the tests. Tests performed with shorter notice or without the CITY's third party observers present may be deemed invalid and non-billable by the CONTRACTOR.
5. If design bearing capacity is not reached at the specified tip elevation, then the test program shall be continued at greater depths under the direction of the ENGINEER and at extra cost to the CITY. If the initial two (2) test piles do not compare well in bearing capacity, then a third pile test shall be performed, at the CITY's expense, in a location directed by the ENGINEER. Test pile analyses shall continue until some correlation between results occurs or a conservative schedule of pile lengths can be determined from the data accumulated.

ARTICLE 16 - CONCRETE TEST PILE PROGRAM FOR LATERAL CAPACITY (HORIZONTAL LOAD)- OPTIONAL:

1. At the discretion of the CITY in coordination with the ENGINEER, the Contractor shall perform a test pile program to determine the adequacy of the piles under lateral loading. A minimum of two (2) test piles shall be placed in locations and to an embedment approved by the ENGINEER. An effort shall be made to evenly distribute test piles over the site where production piles are required. Pile testing may be performed from the land or from a barge. If the piling used in the axial test pile program are not significantly damaged, they may be used in the lateral load test program.
2. Test piles shall be of similar material, finish and size in cross-section to those in the design specifications, and must be of similar same strength and number of strands as it may desirable to re-use the test piles for production. The piling itself shall at least withstand the pile-driving operation without cracking or failing, typical chips around the pile head notwithstanding.
3. The Engineer may have specified pile lengths and embedment based on limited soils information. The ENGINEER will provide the design lateral capacity and allowable final lateral deflection for the test. The CONTRACTOR shall perform the lateral load test as follows:
   A. Using an approved lateral loading system with a scaled gauge device measuring the pull force, load the pile in 1,000 pound increments and measure the lateral deflection after three (3) minutes of achieving each increment.
   B. Each incremental load shall be completely unloaded with the "at rest deflection" recorded prior to applying the subsequent lateral load.
   C. Applying and releasing loads shall be performed in a slow and even manner at a point on the pile equal to the proposed elevation dictated by the ENGINEER.
   D. The final load shall be the even 1,000 pound increment beyond the lateral load requirement, and shall be held for six (6) minutes prior to recording the lateral deflection and release.
   E. The final "at rest deflection" shall be recorded.
   F. The pile shall be determined adequate if the final "at rest deflection" is less than the value determined to be acceptable for the project application.

ARTICLE 17 - CAP CONCRETE

1. All construction, manufacturing, fabrication and testing of materials shall be performed under the guidelines set forth in applicable local, state, and federal codes, and/or under recommendations provided in technical publications of respected professional or industry organizations. Material testing programs, where applicable, shall be presented to the ENGINEER for review and approval. All mix designs by the concrete supplier must be submitted to the ENGINEER for approval prior to submitting order.
2. All products constructed or manufactured/supplied for the project shall be accompanied by industry acceptable warranties or guarantees.
3. All concrete shall be of the same mix design as follows:
   A. Compressive Strength = 6000psi
   B. Water-cement ratio <= 0.40
   C. Air entrainment = 1.5% min.
   D. Potable water, no chlorides.
   E. Type I Cement
   F. 6% addition of microsilica per weight of binders.
   G. Apply Master Builders "Confilm", or equivalent immediately after finishing per manufacturerâ€™s specifications.
   H. Large and small aggregates washed and free of chlorides or reactive chemicals.
   I. Retarders or accelerators not allowed unless justified to the ENGINEER prior to their use.
4. Concrete cover from all exterior faces shall be 4" clear to outermost face of any reinforcement.
5. Continually wet water curing on all components. Begin water curing when the concrete has hardened to a point where a "knock" with the knuckles does not indent the surface. Water must be applied such that the entire exposed surface is saturated. Sprinklers or perforated hoses are common methods used for continuous water curing.
6. Curing compound applied uniformly and within one hour to formed sides after stripping forms.
7. Use non-metallic chairs and spacers in reinforcement placing, or for any other necessary in form attachments or alignments.
8. The final alignment of the concrete cap shall be straight and level per elevations and plans provided.
9. Concrete shall be continually cast in forms, fully filling forms as the casting progresses. No greater than 45 minutes may transpire between individual castings. Trucks may not sit on site for greater than 45 minutes. Delays in casting a given form greater than 45 minutes shall be rejected, unless an acceptable construction joint can be made. Concrete sitting for greater than 45 minutes in the truck on-site shall be rejected at the CONTRACTOR's expense.
10. The CONTRACTOR is solely responsible for integrity of forms. Formwork shall be rigid and remain in-place throughout the casting and curing process. Incomplete filling, or filling bottoms of, forms, to allow partial curing prior to completely filling forms is not acceptable.
11. A working concrete vibrator must be on-site prior to delivery of first concrete. The ENGINEER or ENGINEER's Representative shall not allow concrete to be cast otherwise.
12. Vibrate concrete fully, particularly at corners and edges, in a continuous vertical plunging motion, taking care not to hold the vibrator still at any time while in the concrete. Concrete with voids and/or honeycombing will be rejected.
13. Concrete materials testing shall be per acceptable ASTM methods and intervals. A materials testing program shall be prepared by the CONTRACTOR and/or Manufacturer for review and approval by the ENGINEER. As a minimum, four (4) test cylinders shall be cast for any given amount of concrete cast in a day. At the CONTRACTOR's expense, the cylinders shall be tested at 3, 7, 14 and 28 days to demonstrate compliance with the specified compressive strength.

ARTICLE 18 - VERTICAL JOINTS IN CAP - EXPANSION JOINTS (E.J.)

1. All expansion joints shall be full depth with no typical cap reinforcing passing through the joint. Longitudinal cap reinforcing shall stop 4 inches from the ends of the joint on each side.
2. The vertical joint gap shall be 1/2 inch uniformly over the entire cross-section. One suggested method to effect proper vertical and plane joints is to cast every other section of cap and cast the remaining sections after the first castings are set.
3. As noted on the plans there are two types of expansion joints. One type includes three (3), 30-inch long, 1 1#2" diameter, smooth, greased dowels shall be placed in the center of the joint cross-section. The dowels shall be at the approximate mid-cap height level, side-by-side, and equally spaced laterally across cap. The dowels shall not be within 1.5 inches of any cap reinforcing or other structural component. The other type of expansion joint does not include dowels extending across the joint.
4. The joint spacer shall be 1/2" neoprene, full cap width and height.

ARTICLE 19 - PILE CAPS

1. Pile Caps: Concrete dock piles (fixed and floating) shall have HDPE or fiberglass pile caps as supplied by Henderson Marine Supply, Inc., Petaluma, California, or approved equal. Color shall be white. Pile caps shall be constructed of high gloss, long lasting fiberglass with gelcote. Minimum wall thickness shall be 1/8".

ARTICLE 20 - FINAL INSPECTION AND PROJECT CERTIFICATION

1. The CONTRACTOR shall be required to coordinate final inspections for project certification by the ENGINEERS and/or other licensed engineers involved in the project. The CONTRACTOR shall anticipate coordinating inspections at time of substantial completion along with subsequent final inspections on a different date, after the CONTRACTOR has completed a final Punchlist of items, as necessary.
2. Upon completion of the project, the CONTRACTOR shall provide to the CITY a final asbuilt of the new bulkhead cap, dock structures, upland walkways and lighting systems. Record Asbuilt drawings shall reflect any or all changes, modifications or additions to the approved shop drawings used for construction. Any changes to the shop drawings reflected on the Record Asbuilt drawings must be clearly highlighted. Record Asbuilt drawings must be certified by a Licensed Professional ENGINEER registered in the State of Florida.

END OF TECHNICAL SPECIFICATIONS

PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

REVISIONS:

NO.:	DATE:	DESCRIPTION:

PROJECT: HILLSBORO INLET PARK BULKHEAD, PROMENADE & DOCK IMPROVEMENTS
POMPANO BEACH, BROWARD COUNTY, FLORIDA

SHEET TITLE: NOTES AND SPECIFICATIONS

PREPARED FOR: pompano beach — Florida's Warmest Welcome
CITY OF POMPANO BEACH
1201 NE 5TH AVENUE
POMPANO BEACH, FLORIDA 33060

CERTIFICATION:
William T. Sadler, Jr., P.E.
Florida Registration No.: 41184
For the Firm Sea Diversified, Inc.
C.A. License Number 25937

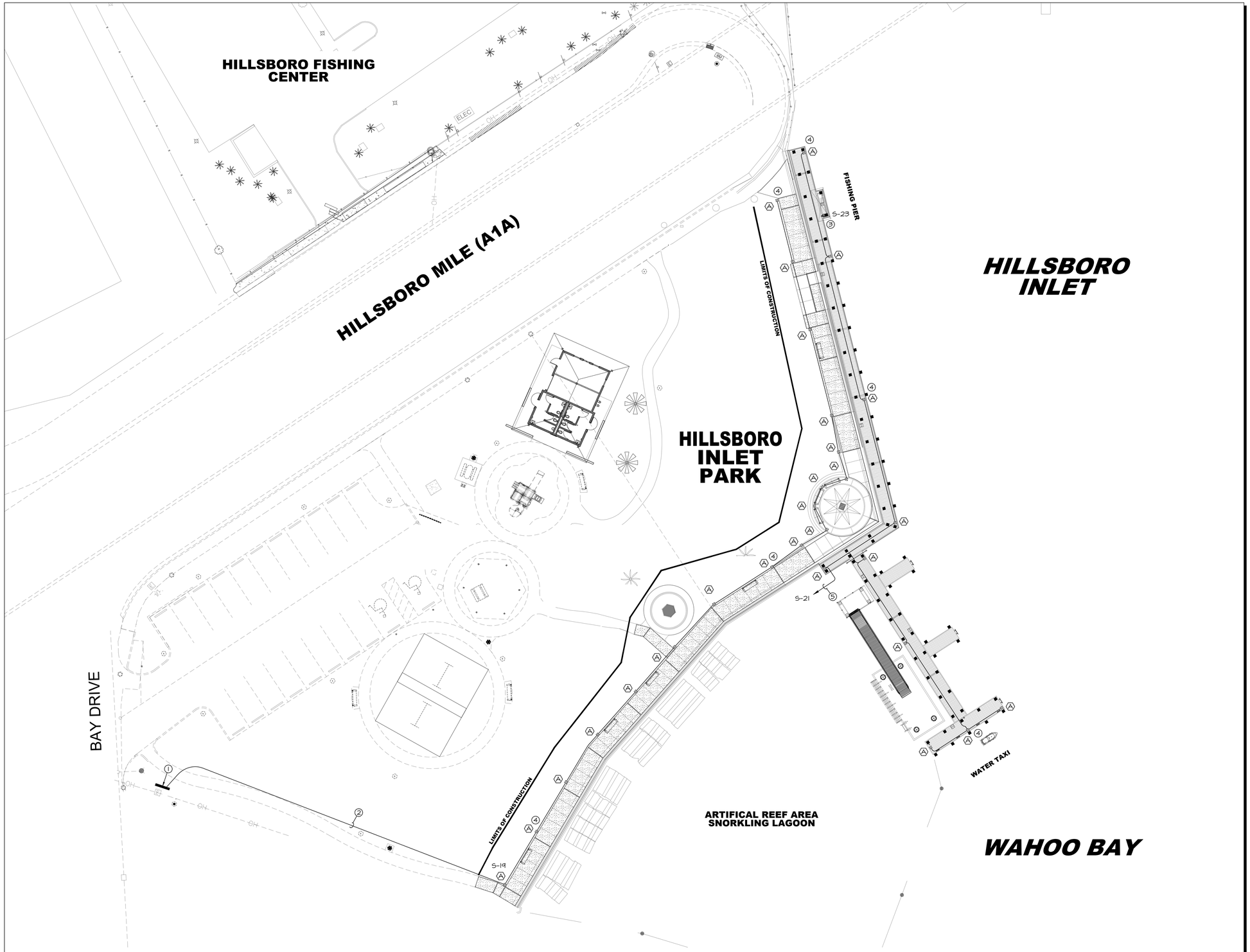
PREPARED BY:
SEA DIVERSIFIED, INC.
Tel: (561) 243-4920
Fax: (561) 243-4957
160 Congress Park Drive, #114
Delray Beach, Florida 33445
www.seadiversified.com

SEA DIVERSIFIED

DATE:	JUNE 2025
DRAWN BY:	W.T.S.
CHECKED BY:	W.T.S.
SCALE:	N.T.S.

SHEET: N-1
CADD ID:
TOTAL NUMBER OF SHEETS:

PLANS ARE NOT VALID WITHOUT THE SIGNATURE AND RAISED SEAL OF A LICENSED ENGINEER REGISTERED IN THE STATE OF FLORIDA. SDI P.N.: 24-3350



1 / E-1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

PLAN NOTES:

1. APPROXIMATE LOCATION OF EXISTING SERVICE RACK AND EXISTING PANEL 'S' TO REMAIN. SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
2. 3/4"C-5#10,#10G.
3. WP GFI RECEPTACLE AT FISH CLEANING STATION PROVIDE LOCKING NEMA 3R WEATHERPROOF IN-USE COVER AND RUN 3/4"C-2#10,#10G TO CIRCUIT 'S-23'. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
4. NEW BOLLARD LIGHTING FIXTURE. SEE LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. TIE TO CIRCUIT INDICATED VIA PHOTO CELL. (TYPICAL OF 28)
5. 3/4"C-2#10,#10G.
6. PER NEC 555.13 PROVIDE MINIMUM #8 BONDING CONDUCTOR FROM THE SYSTEM GROUND CONNECTED TO ALL NON CURRENT-CARRYING METAL PARTS IN CONTACT WITH THE WATER THAT ARE LIKELY TO BECOME ENERGIZED.
7. PER NEC 555.13 PROVIDE MINIMUM #8 BONDING CONDUCTOR FROM THE SYSTEM GROUND CONNECTED TO ALL NON CURRENT-CARRYING METAL PARTS IN CONTACT WITH THE WATER THAT ARE LIKELY TO BECOME ENERGIZED.

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL FIRE CODES (NFPA), THE AMERICANS WITH DISABILITIES ACT (ADA), THE FLORIDA BUILDING CODE (FBC) AND ALL OTHER LOCAL CODES AND AMENDMENTS.
2. ALL PANELBOARDS SHALL BE PROVIDED WITH A TYPEWRITTEN SCHEDULE SHOWING CIRCUIT NUMBERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT.
3. MINIMUM TRADE SIZE CONDUIT PERMITTED SHALL BE 1/2 INCH UNLESS NOTED OTHERWISE.
4. ALL CONDUCTOR METAL SHALL BE COPPER WITH 600 VOLT INSULATION TYPE THHN (MINIMUM SIZE SHALL BE #12AWG). CONTRACTOR SHALL ADJUST WIRE AND CONDUIT SIZES IF OTHER INSULATION TYPES ARE USED.
5. ALL PANELBOARDS, SWITCHES AND CIRCUIT BREAKERS SHALL BE MEE, ITE, SQUARE D, GE, OR CUTLER HAMMER.
6. ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR INSTALLED FOR GROUNDING.
7. ALL EMPTY CONDUITS SHALL CONTAIN JET LINE #232 POLYOFIN 200 LB. TEST.
8. ALL WORK SHOWN ON THE ELECTRICAL PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

ELECTRICAL SYMBOL LEGEND:

AFCI	ARC FAULT CURRENT INTERRUPTER
GFI	GROUND FAULT INTERRUPT
OC	MOUNT DEVICE AT OVER COUNTER HEIGHT
WP	WEATHERPROOF
	EXHAUST FAN
	GROUND TYPE DUPLEX RECEPTACLE 120V. +18"AFF TO BOTTOM OF DEVICE.
$	S.P.S.T. SWITCH
	LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
A	LIGHT FIXTURE TYPE. SEE SCHEDULE.
X	PLAN NOTE
	120/240V PANELBOARD
	GROUND CONNECTION
	DISCONNECT SWITCH
	CONDUIT

SCOPE OF WORK:

THIS PROJECT CONSISTS OF THE ELECTRICAL WORK ASSOCIATED WITH THE RAISING OF THE EXISTING WALKWAYS TO THE ELEVATION OF THE EXISTING SEAWALL.

NEW AMBER TURTLE FRIENDLY LED FIXTURES SHALL BE PROVIDED ALONG THE RAISED WALKWAY AND EXISTING DOCK.

THE EXISTING PARKING LOT AND OTHER SITE LIGHTING FIXTURES ARE TO REMAIN AS IS.

RONALD L. LEVINSON, P.E.
530 S. Federal Hwy.
Suite No. 4
Lake Worth Beach
Florida 33460-4681
Ph: (561)379-5835
Fax: (561)582-3700
LevinsonPE@gmail.com

FL P.E. NO. 34871

This drawing has been electronically signed and sealed by Ronald L. Levinson P.E. on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RONALD L. LEVINSON PROFESSIONAL ENGINEER LICENSE No. 34871 STATE OF FLORIDA

PROJECT:

Hillsboro Inlet Park

ELECTRICAL UPGRADES

2700 North Ocean Boulevard
Pompano Beach
Florida 33062

Date:	6-16-2025
Drawn By:	RLL
Checked By:	RLL
Project No.:	250411
Revised:	.
	.

SHEET NO. 1 of 2

E-1

PRELIMINARY NOT FOR CONSTRUCTION

Exhibit "A"

KBA8 LED
LED Specification Bollard

BAA BABA

Catalog Number

Notes

Type

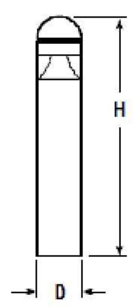
Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

8" Round (20.3 cm)

Height: 42" (106.7 cm)

Weight (max): 27 lbs (12.25 kg)



Introduction

The KBA8 Bollard is a stylish, fully integrated LED solution for walkways. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 70% in energy savings over comparable 100W metal halide luminaires, the KBA8 Bollard is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: KBA8 LED 16C 700 40K SYM MVOLT DDBXD

KBA8 LED

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control options
KBA8 LED	**Asymmetric** 12C 12 LEDs[1] **Symmetric** 16C 16 LEDs[2]	350 350mA 450 450mA[3,4] 530 530mA 700 700mA	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted AMBLW Amber limited wavelength[3,4]	ASY Asymmetric[1] SYM Symmetric[1]	MVOLT[5] 120[5] 208[5] 240[5] 277[5] 347[4]	**Shipped installed** PE Photoelectric cell, button type DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) ELCW Emergency battery backup, CA Title 20 Noncompliant[6]

Other options	Finish (required)
Shipped installed SF Single fuse (120, 277, 347V)[4,7] DF Double fuse (208, 240V)[4,7] H24 24" overall height H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet L/AB Without anchor bolts (3 bolt base) L/AB4 4 bolt retrofit base without anchor bolts[8]	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Accessories
Ordered and shipped separately.

MRAB U Anchor bolts for KBA8 LED[8]

NOTES
1 Only available in the 12C, ASY version.
2 Only available in the 16C, SYM version.
3 Only available with 450 AMBLW version.
4 Not available with ELCW.
5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
6 Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
7 Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
8 MRAB U not available with L/AB4 option.
9 Striping is available only in the colors listed.

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Performance Data

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

LEDs	Drive Current (mA)	System Watts	Dist. type	30K Lumens	30K B	30K U	30K G	30K LPW	40K Lumens	40K B	40K U	40K G	40K LPW	50K Lumens	50K B	50K U	50K G	50K LPW	[illegible] Lumens	[illegible] B	[illegible] U	[illegible] G	[illegible] LPW
12C	350mA	16	ASY	1,126	1	1	1	70	1,210	1	1	1	76	1,217	1	1	1	76					
	530 mA	22	ASY	1,622	1	1	1	74	1,741	1	1	1	79	1,752	1	1	1	80					
	700mA	30	ASY	2,050	1	1	1	68	2,201	1	1	1	73	2,215	1	1	1	74					
	Amber 450	16	ASY																324	0	1	0	20
16C	350mA	20	SYM	1,527	1	0	0	76	1,640	1	0	0	82	1,650	1	0	0	83					
	530 mA	28	SYM	2,186	1	0	0	78	2,348	1	0	1	84	2,362	1	0	1	84					
	700mA	39	SYM	2,744	1	0	1	70	2,947	1	0	1	76	2,965	2	0	1	76					
	Amber 450	20	SYM																374	0	0	0	19

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

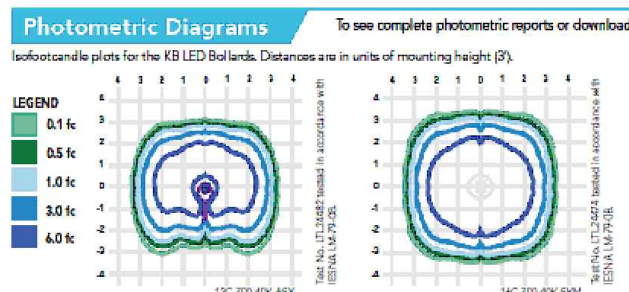
Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's KBA8 Bollard homepage.

Isofootcandle plots for the KB LED Bollards. Distances are in units of mounting height (3').



FEATURES & SPECIFICATIONS

INTENDED USE
The rugged construction and clean lines of the KBA bollard is ideal for illuminating building entryways, walking paths, and pedestrian plazas, as well as any other location requiring a low mounting height light source with fully cutoff illumination.

CONSTRUCTION
One-piece 8-inch round extruded aluminum shaft with thick side walls for extreme durability, a high-impact clear acrylic lens and welded top cap. Die-cast aluminum mounting ring allows for easy leveling even in sloped locations and a full 360-degree rotation for precise alignment during installation. Three ½" x 11" anchor bolts with double nuts and washers and 3 ¾" bolt circle template ensure stability. Overall height is 42" standard.

FINISH
Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS
Two fully cutoff optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without any uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL
Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

GOVERNMENT PROCUREMENT
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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PANELBOARD SCHEDULE

LOCATION: SEE SITE PLAN — EXISTING PANEL **S**

BUS AMPS A	BUS AMPS B	LOAD	POLES	TRIP	CIRC.	CIRC.	TRIP	POLES	LOAD	BUS AMPS A	BUS AMPS B
5		EXISTING CIRCUIT	2	15	1	2	20	2	EXISTING CIRCUIT	8	
	5		–		3	4		–			8
8		EXISTING CIRCUIT	2	20	5	6	20	2	EXISTING CIRCUIT	8	
	8		–		7	8		–			8
5		EXISTING CIRCUIT			9	10	20	1	EXISTING CIRCUIT	5	
	5	EXISTING CIRCUIT			11	12	20	2	EXISTING CIRCUIT		8
5		EXISTING CIRCUIT	1	20	13	14		–		8	
	35	EXISTING BUILDING PANEL	2	60	15	16	20	1	EXISTING CIRCUIT		5
35			–		17	18	20	1	EXISTING CAMERAS	5	
	4	NEW BOLLARDS *	1	20	19	20			SPACE		–
2		NEW BOLLARDS *	1	20	21	22			SPACE	–	
	2	FISH CLEANING STATION *	1	20	23	24			SPACE		–
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

RATED VOLTAGE: 120/240 VOLT 1 PHASE, 3 WIRE	FEED IS TO BE: (●)BOTTOM ( )TOP FROM: UTILITY VIA METER
RATING IS: ( )100 (●)125 ( )225 AMPS	GROUND BAR IS PROVIDED
(●)MAIN BREAKER 100 AMPS ( ) MAIN LUGS ONLY	NEUTRAL BUS IS: (●)FULL ( )DOUBLE SIZE
BRANCH POLES: ( )12 (●)24 ( )30 ( )42	HINGED DOOR WITH KEYED LATCH (●)IS ( )IS NOT PROVIDED
PANELBOARD IS: ( )FUSED (●)CIRCUIT BREAKER TYPE	NEMA 3R ENCLOSURE (●)IS ( )IS NOT PROVIDED

ALL BREAKERS MUST BE RATED TO INTERRUPT A SHORT CIRCUIT CURRENT Isc = 10,000 AMPS, SYM RMS

* PROVIDE NEW CIRCUIT BREAKER TO MATCH EXISTING

ELECTRICAL LOAD CALCULATIONS:

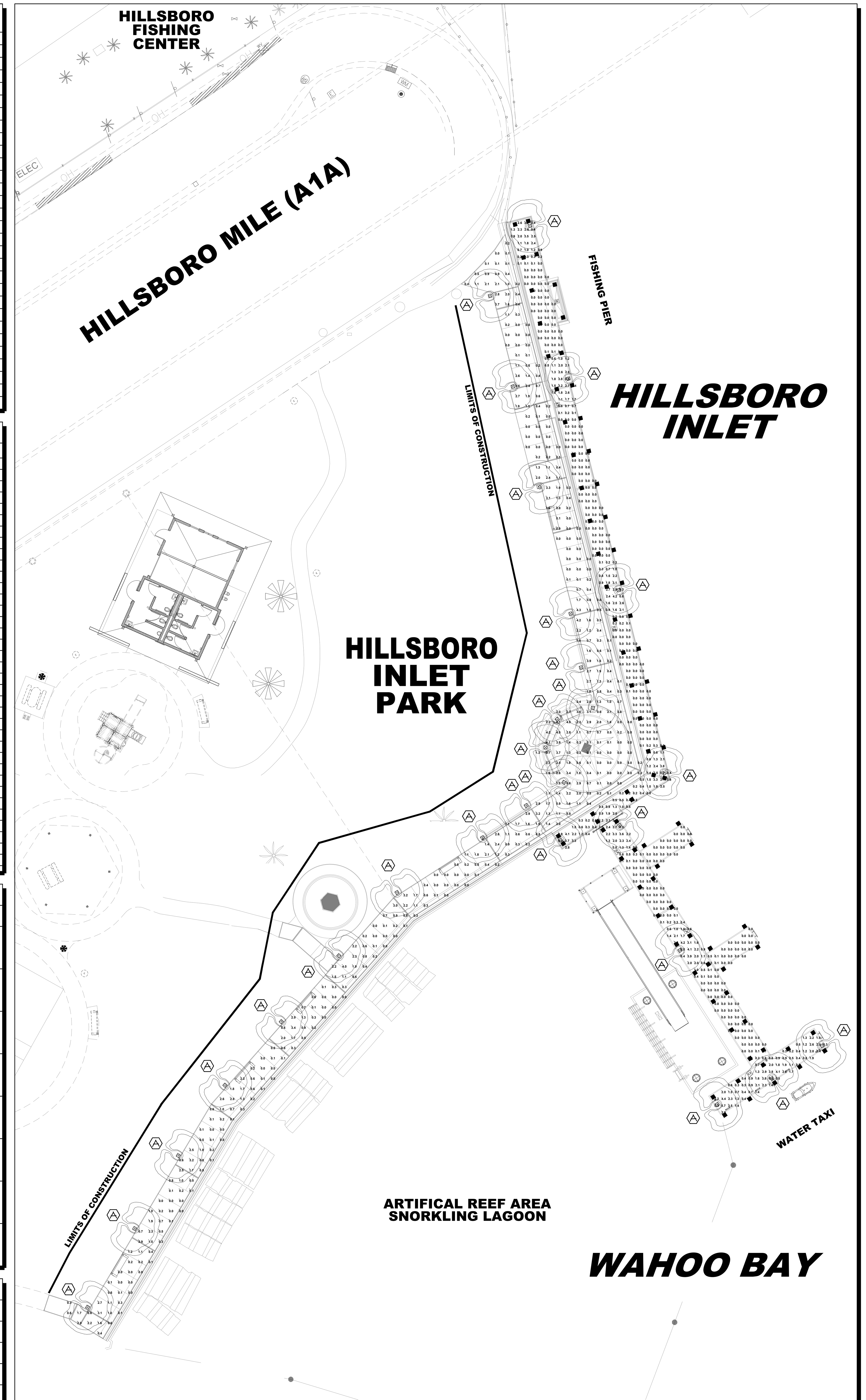
	PANEL 'S'
EXISTING LOADS:	20.9 KW
REMOVED LOADS:	
EXISTING BOLLARDS	
7 X 100 WATTS X 125%	- 0.9 KW
NEW LOADS:	
TYPE A BOLLARDS	
28 X 16 WATTS X 125%	0.6 KW
RECEPTACLES	
1 X 180 WATTS	0.2 KW
TOTAL KW	20.8 KW
TOTAL AMPS @ 120/240 VOLT 1Φ	87 AMPS
RATING	100 AMPS

LUMINAIRE SCHEDULE:

TYPE	MANUFACTURER	DESCRIPTION	ARRANGEMENT	WATTS	LUMENS	MOUNTING	LLF	QTY
A	LITHONIA LIGHTING	KBA8-LED-12C-AMBER 450-AMBLW-ASY-MVOLT-PE	SINGLE	16	324	42" BOLLARD	0.900	28

CALCULATION SUMMARY:

AREA NAME	UNITS	TYPE	SPACING	AVE	MAX	MIN	AVE/MIN	MAX/MIN
WALKWAY	FC	ILLUMINANCE	3.00 FT	0.90	4.8	0.0	N/A	N/A
DOCK	FC	ILLUMINANCE	2.00 FT	0.66	4.4	0.0	N/A	N/A



1 / E-2 **SITE LIGHTING PHOTOMETRIC PLAN**

SCALE: 1" = 20'-0"

NORTH

RONALD L. LEVINSON, P.E.
530 S. Federal Hwy.
Suite No. 4
Lake Worth Beach
Florida 33460-4681
Ph: (561)379-5835
Fax: (561)582-3700
LevinsonPE@gmail.com

FL P.E. NO. 34871

This drawing has been electronically signed and sealed by Ronald L. Levinson P.E. on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

RONALD L. LEVINSON * PROFESSIONAL ENGINEER * LICENSE No. 34871 * STATE OF FLORIDA

PROJECT:

Hillsboro Inlet Park

ELECTRICAL UPGRADES

2700 North Ocean Boulevard
Pompano Beach
Florida 33062

Date:	6-16-2025
Drawn By:	RLL
Checked By:	RLL
Project No.:	25041I
Revised:	.
	.

SHEET NO. 2 of 2

E-2

PRELIMINARY NOT FOR CONSTRUCTION

SUPPLEMENTARY CONDITIONS

PROJECT SCHEDULE:
The Contractor will provide their estimated time to complete the project in their submitted bid; however, the construction completion date cannot exceed **September 15, 2026.** The City will determine the acceptance of the contractor's proposed contract time.

COMPETENT PERSON:
The City will require the Contractor to have an approved, competent representative present during all construction activities. The contractor will must provide a resume of the competent person who will be designated as Superintendent, Foreman, and/or Manager. The City must approve the competent representative prior to construction activities taking place.

CHANGE ORDERS & CONTINGENCY USAGE:
All Change Order requests must be accompanied by backup documents supporting the Change Order. Contingencies and Allowances usage request must have proper documentation and approval by the Owner.

CLOSE OUT DOCUMENTATION:
All close-out documents must be hard copy and digital, including USB or CD. As-built drawings must be in CAD and PDF format, and they must be approved and accepted by the Designer, Governing Authorities, and the City. All approved as-builts must be signed and sealed by a surveyor and/or engineer.

MEETINGS:
The Contractor must have an assigned project-knowledgeable representative at bi-weekly progress meetings. The meeting schedule will be determined before the Notice to Proceed is issued. The Contractor must provide meeting minutes to the Owner of each progress meeting no later than seven days after the meeting. The Contractor will be required to attend a community outreach meeting prior to construction.

PAY APPLICATION:
The Owner may include Contingency line items in the Schedule of Values. Pay applications submitted to the Owner must have supporting documents as backups showing the breakdown of the contingency usage. The Pay Application submissions require a progress schedule, Release of Lien, and Contingency Log.

AS-BUILTS:
The Contractor is to update and maintain the as-built drawings throughout the project. The Contractor must be able to supply as-built drawings as requested.

EXISTING AND NEW UTILITIES:
The contractor must pothole ahead of construction for existing lateral utilities to avoid conflict. The contractor must assume a variance in existing utilities. The contractor must confirm with utility companies prior to digging for any utility conflicts that may not be shown on the plans.
The contractor will be required to coordinate with utility providers prior to and throughout the construction duration for utility connections and supplies needed for the project. This may include but is not limited to, Florida Power and Light (FPL), internet-low-voltage technology, water, sewer, and gas utility suppliers.

MOBILIZATION OF TRAFFIC, HURRICANE, PHASING, STAGING AND SAFETY PLANS: The contractor is to have the Mobilization of Traffic plan (if applicable) approved by Broward County. The contractor will also provide safety, phasing, staging, and hurricane plans for approval by the City before construction. The Staging area must include a perimeter security fence with a windscreen and proper safety signage. Caution tape will not suffice. Fencing must prevent pedestrian access in the working and staging areas. The contractor is to provide tree protection and restore the staging site using approved sod or other approved material. Seeding will not be allowed. If the staging area is on paving, then the contractor is to restore the pavement to approved condition.

PROPERTY MAINTENANCE:
The contractor is responsible for the safety and maintenance of the property within the project limits and must provide daily clean-up in areas used by the contractor.

PERMITTING:
The Contractor is responsible for acquiring all permits required for the project. Permits may include, but are not limited to, City, County, and State permits and any other permits that govern the project. The City will issue a Notice to Proceed for the permitting and submittal process. The project will not be considered "Final Completion" until all required permits are closed and, if required, a Notice of Completion is issued.

PUBLIC SERVICES:
The contractor must coordinate with local public services so as not to interrupt public access. Services include, but are not limited to: police, fire, medical, and waste services. If any services are scheduled for interruptions, the Contractor must coordinate with the public service provider to minimize any disruption to service. This includes, providing public notifications to the impacted area.

ACCESSIBILITY:
Stakeholders located in the work zone must have pedestrian and vehicle access during working and non-working hours. All open trenches must be road-plated to allow access for high-load/ industrial trucking operations. The Contractor must coordinate with stakeholders and the City to minimize any interruption to operations. One lane must be operational at all times, with proper traffic maintenance implemented to coordinate traffic. In the event that a lane must be temporarily closed, the Contractor must have written approval prior to any full lane closures.

COMMUNITY OUTREACH:
The contractor is to provide flyer/door hangers to any impacted properties (7) days before any construction commencing in the area. Flyers must be provided to the City for approval before distribution.