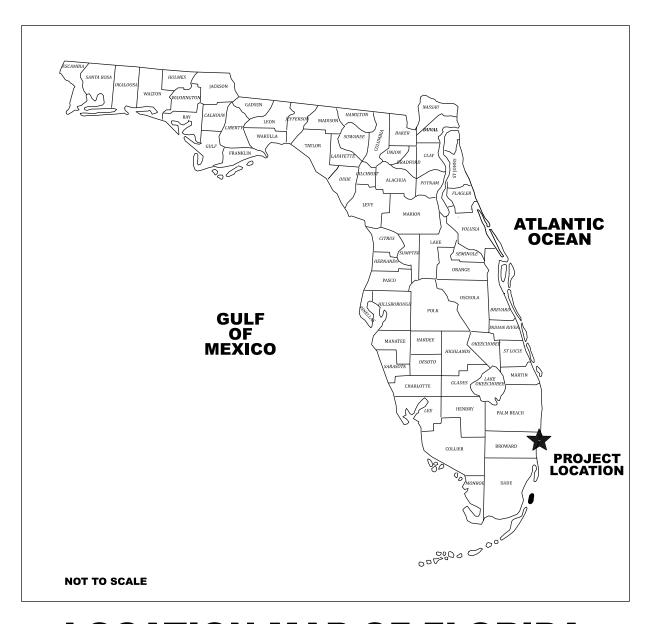
PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25

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

ROJECT SITE ATLANTIC OCEAN Summer Wind Sport Fishing Charters

VICINITY MAP

PREPARED BY:



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

PREPARED FOR:



REX HARDIN ALISON FOURNIER **AUDREY FESIK BEVERLY PERKINS** DARLENE SMITH

MAYOR AT LARGE VICE MAYOR, DISTRICT 3 COMMISSIONER, DISTRICT 1 RHONDA SIGERSON-EATON COMMISSIONER, DISTRICT 2 COMMISSIONER, DISTRICT 4 COMMISSIONER, DISTRICT 5

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

SHEET INDEX

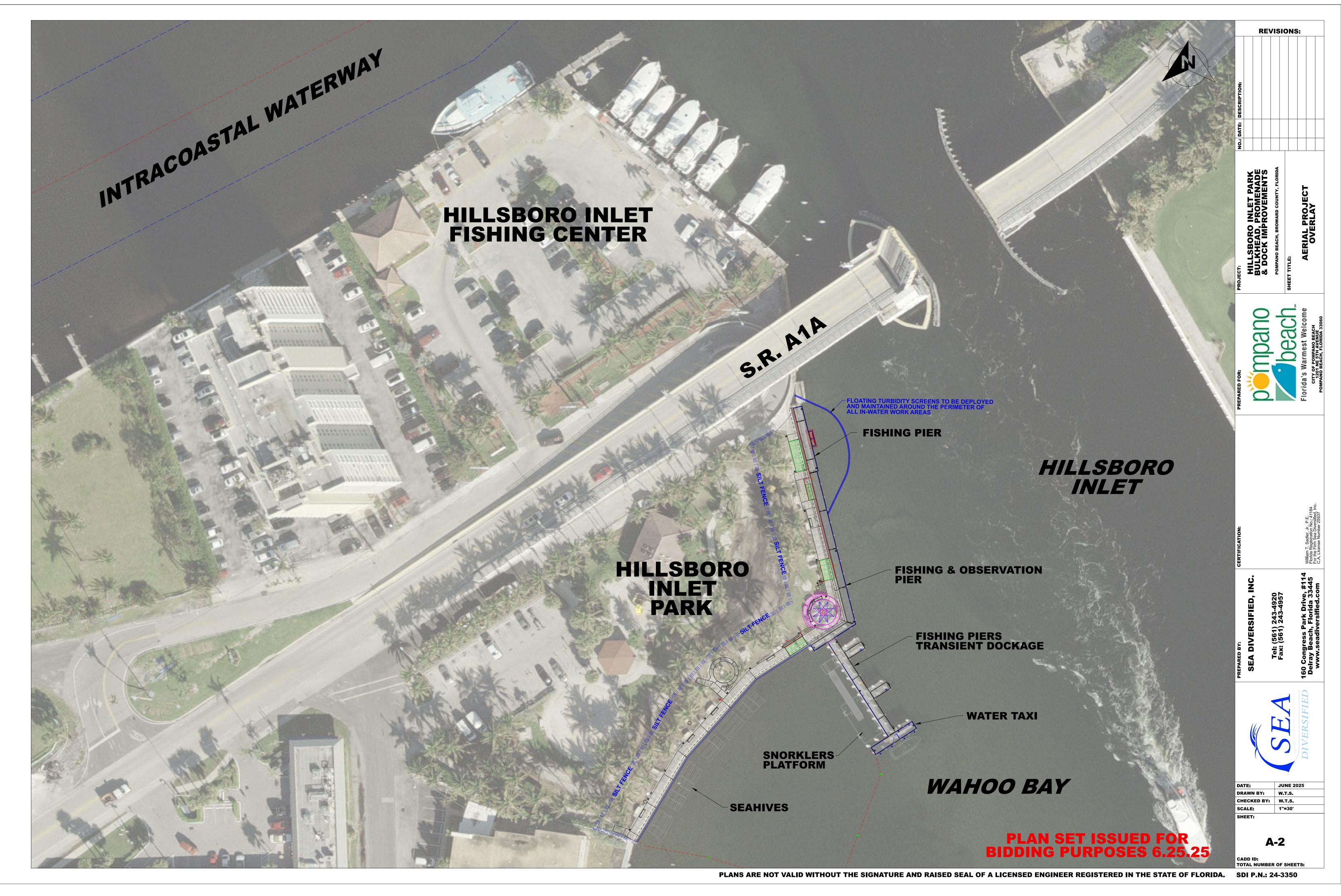
SHEET NO.	SHEET TITLE
C-1	COVER SHEET
A-1	AERIAL
A-2	AERIAL PROJECT OVERLAY
B-1	BATHYMETRY
P-1	SITE PLAN
P-2	PLAN DETAIL SOUTH
P-3	PLAN DETAIL NORTH
BH-1	BULKHEAD PLAN SOUTH
BH-2	BULKHEAD PLAN NORTH
D-1	MARGINAL DOCK & PIER PILE LAYOUT
D-2	MARGINAL DOCK & PIER ALUMINUM FRAME LAYOUT
S-1	TYPICAL SECTION 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.)

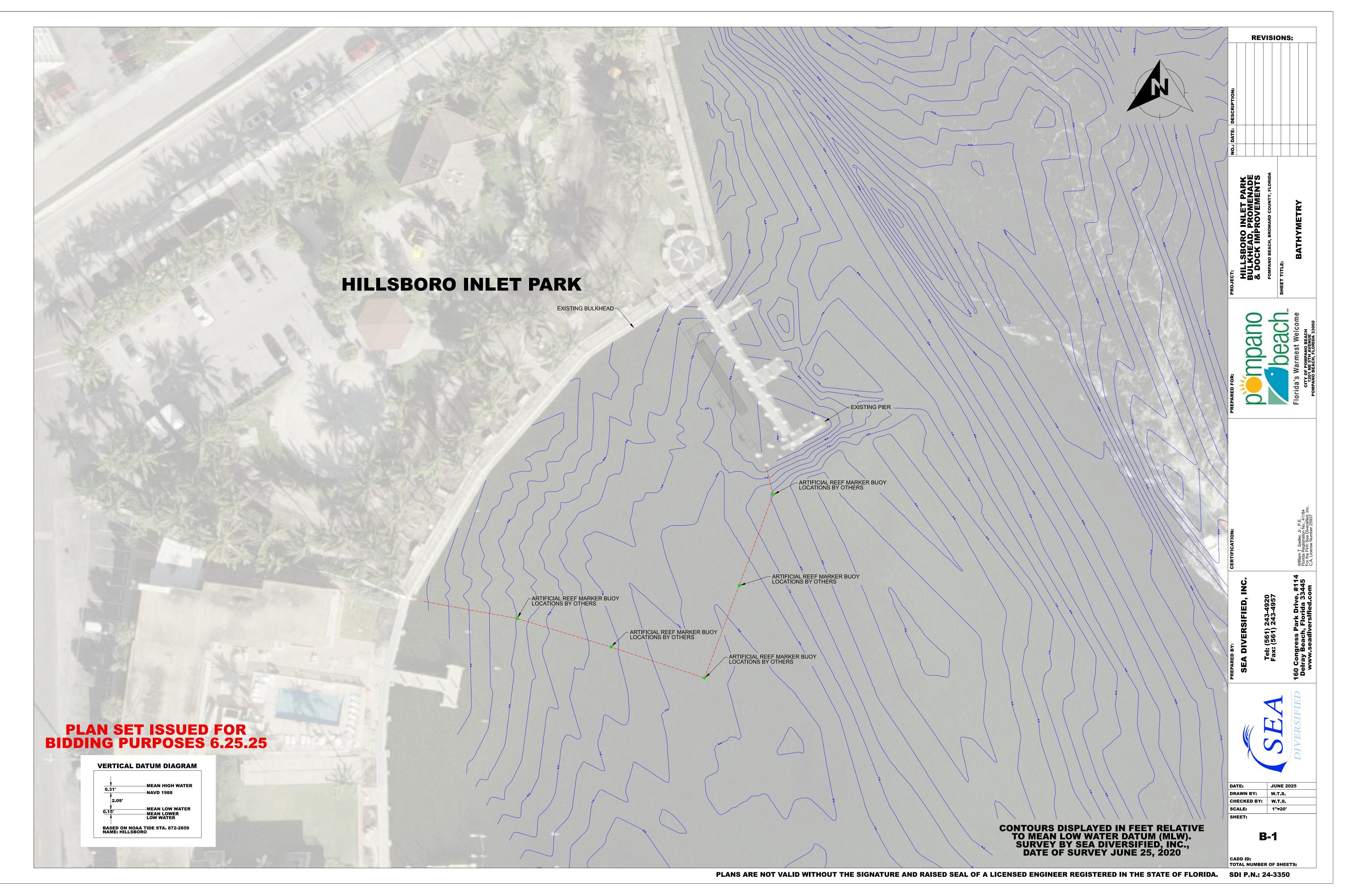
Tel: (561) 243-4920 Fax: (561) 243-4957 W.T.S. DRAWN BY: N.T.S. **C-1**

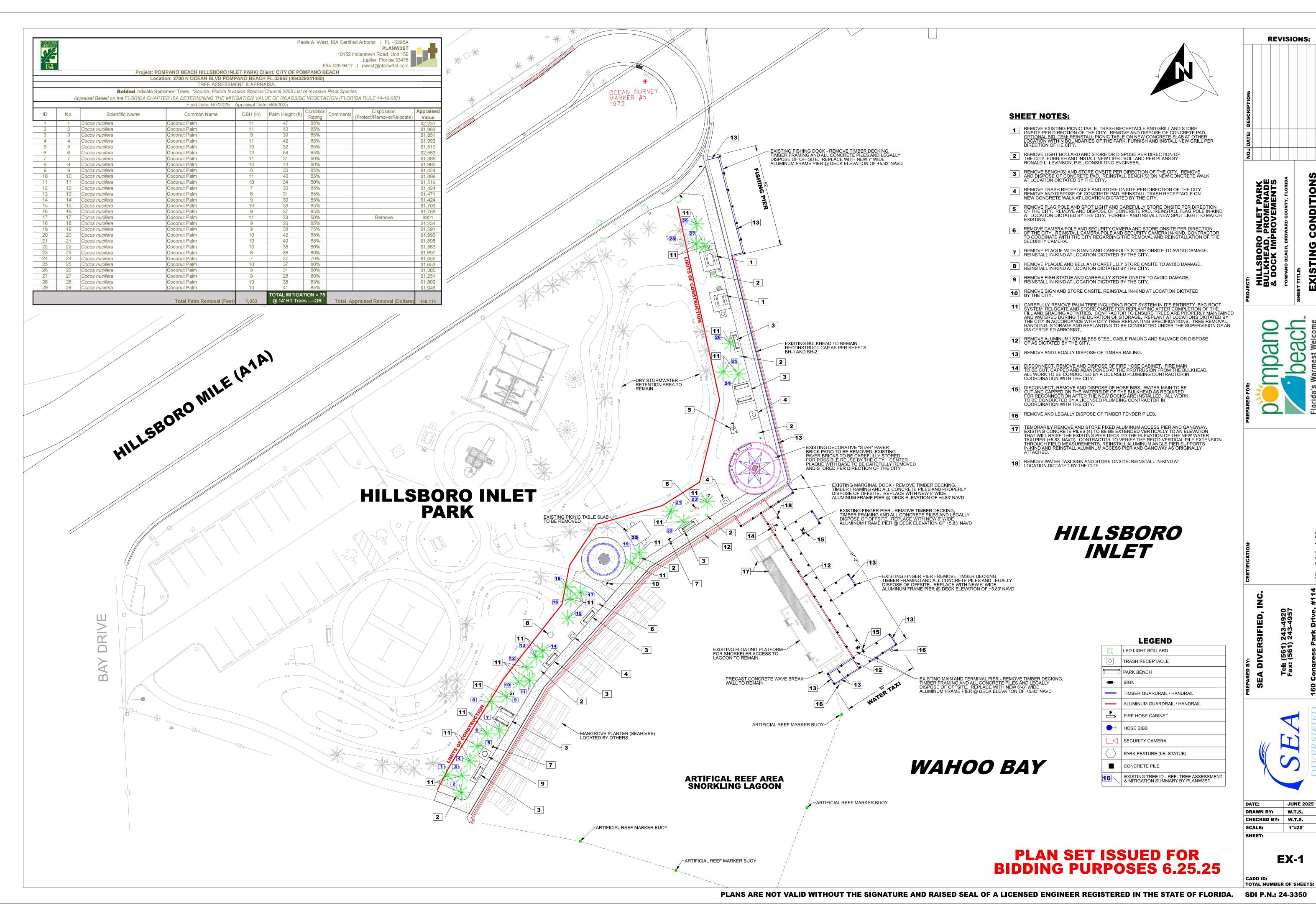
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REVISIONS:

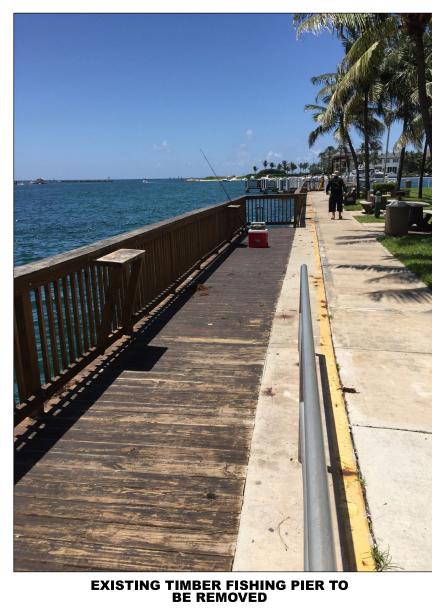




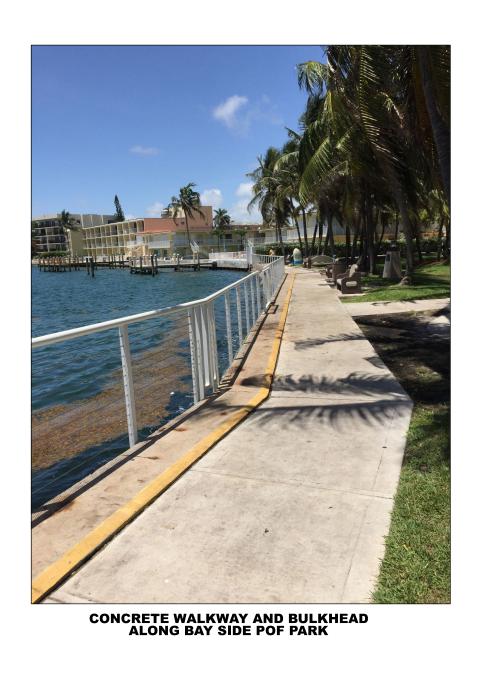








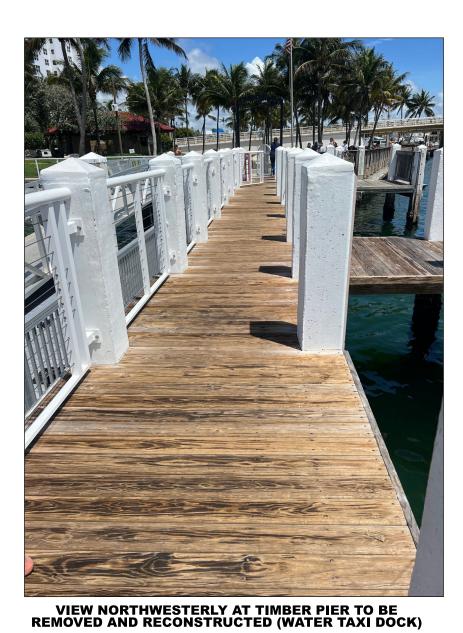












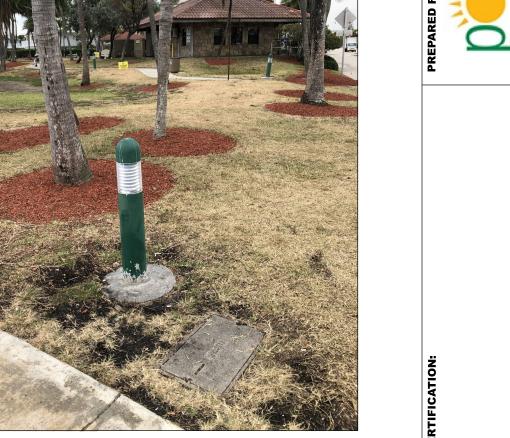










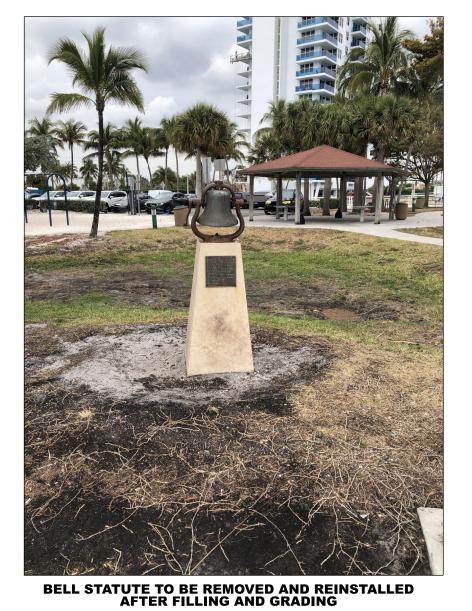




FLAG POLE AND BASE TO BE REMOVED AND REINSTALLED AFTER GRADING





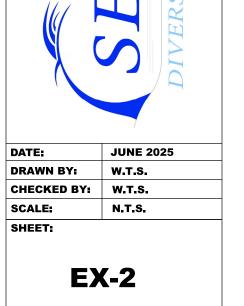






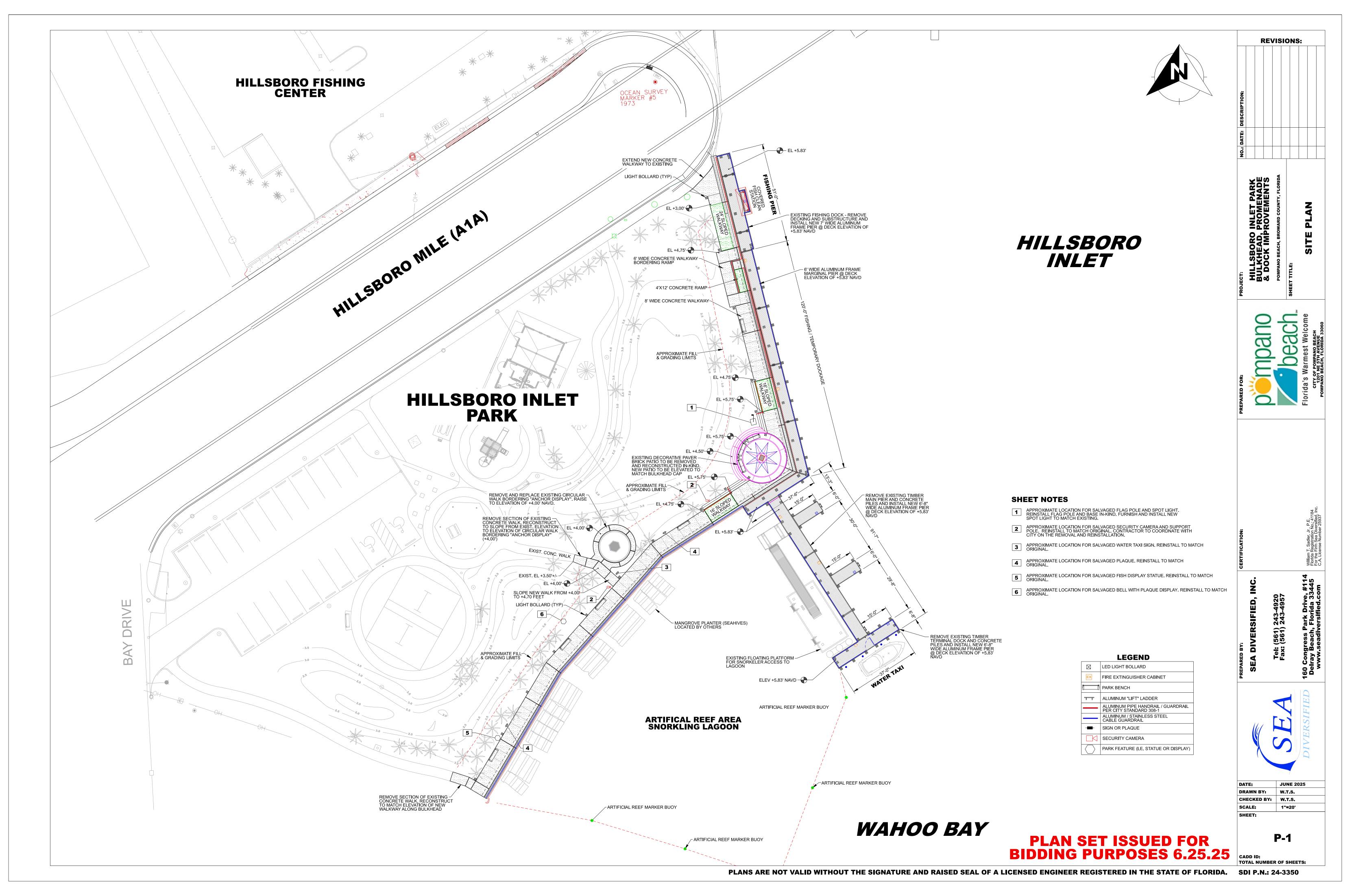
DRY RETENTION AREA ALONG INLET SIDE OF PARK

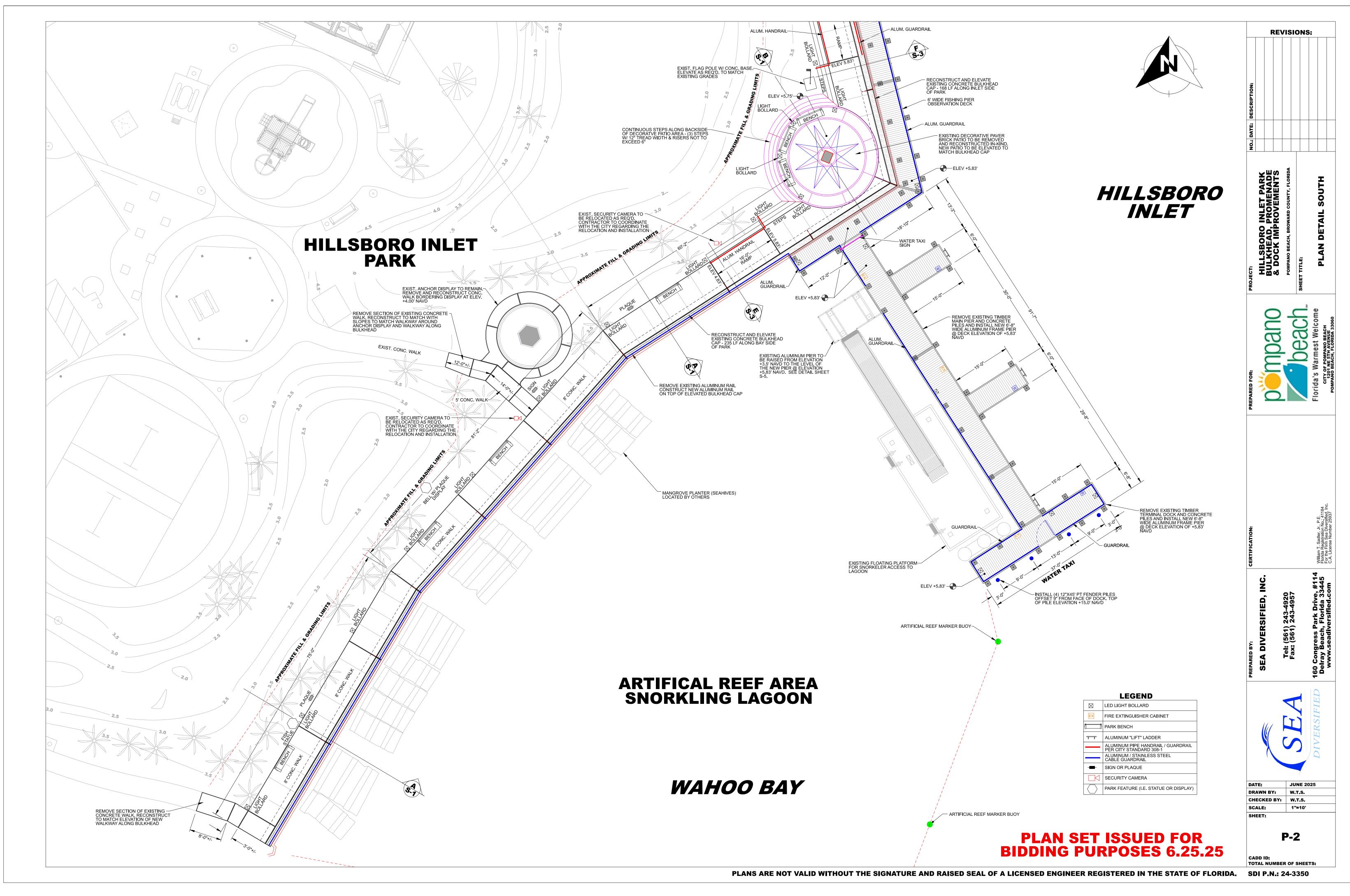
PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25 CADD ID: TOTAL NUMBER OF SHEETS:

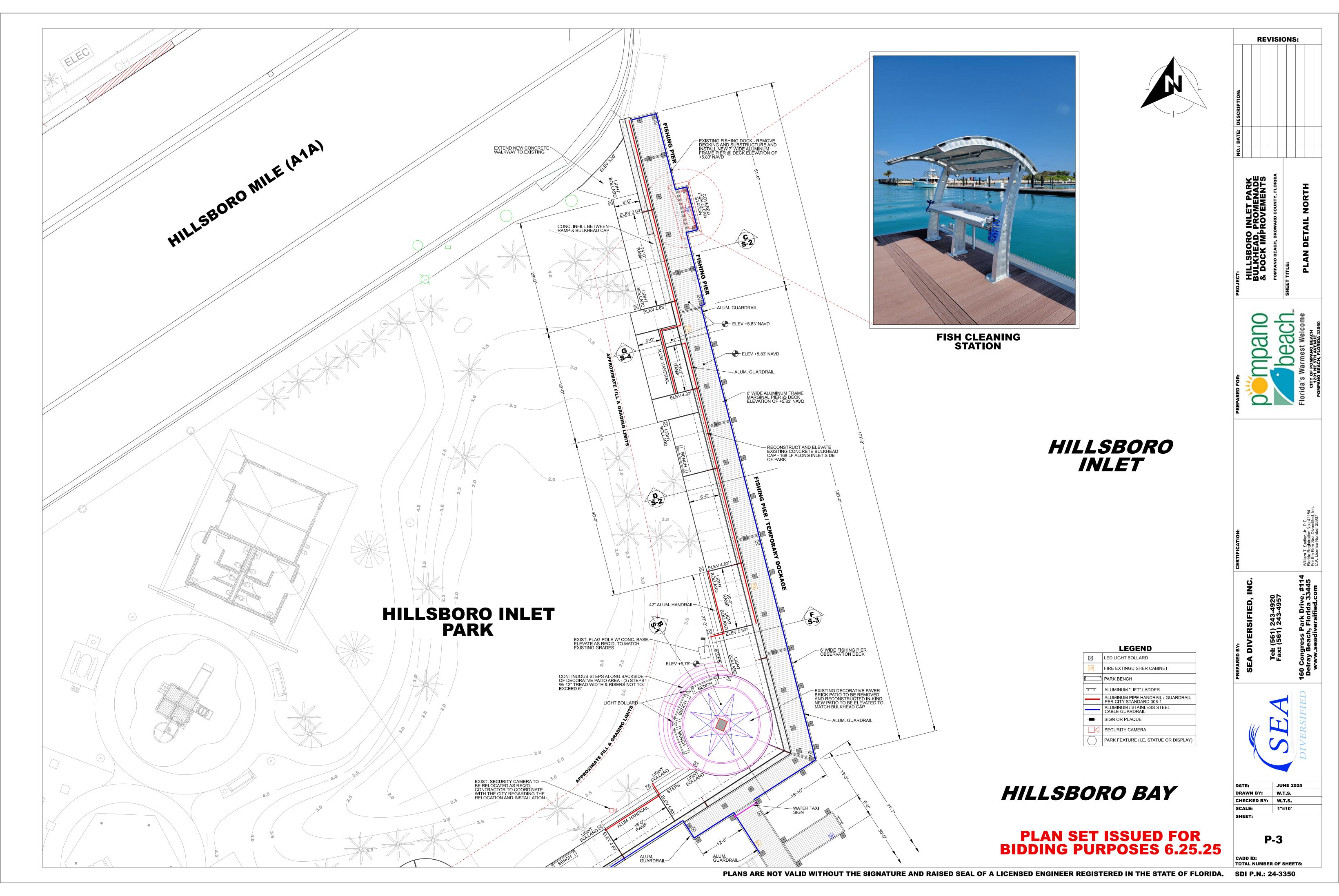


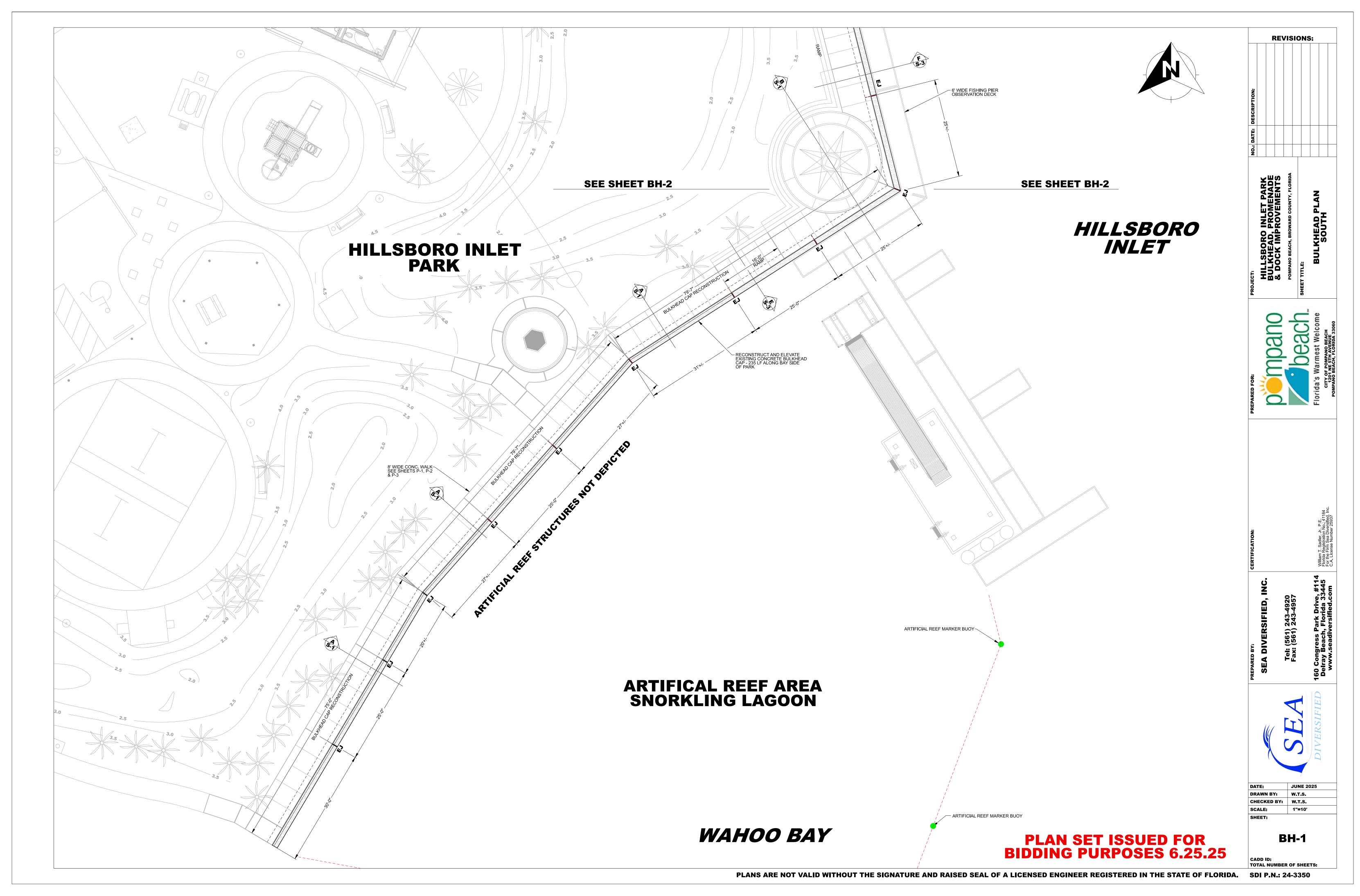
SDI P.N.: 24-3350

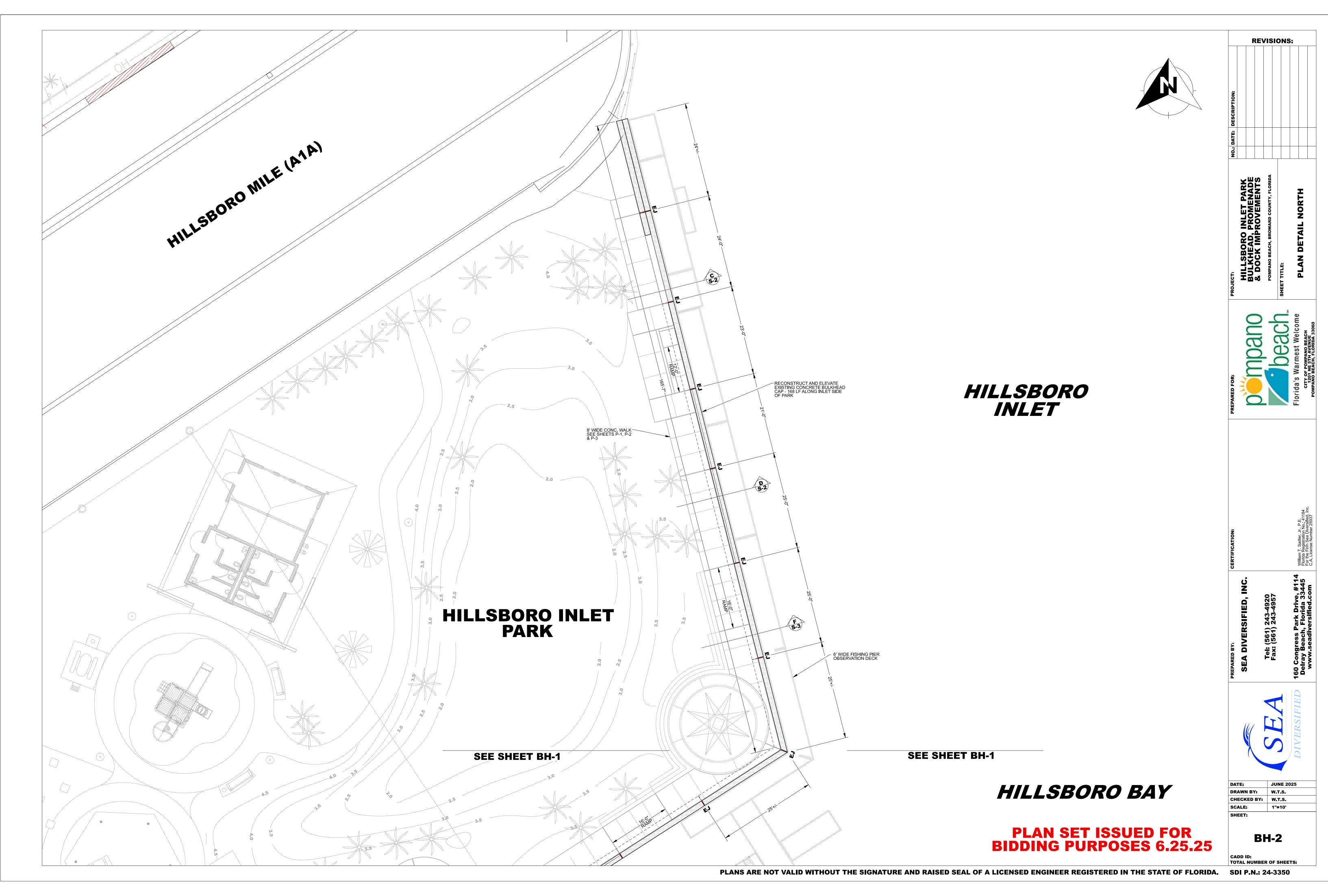
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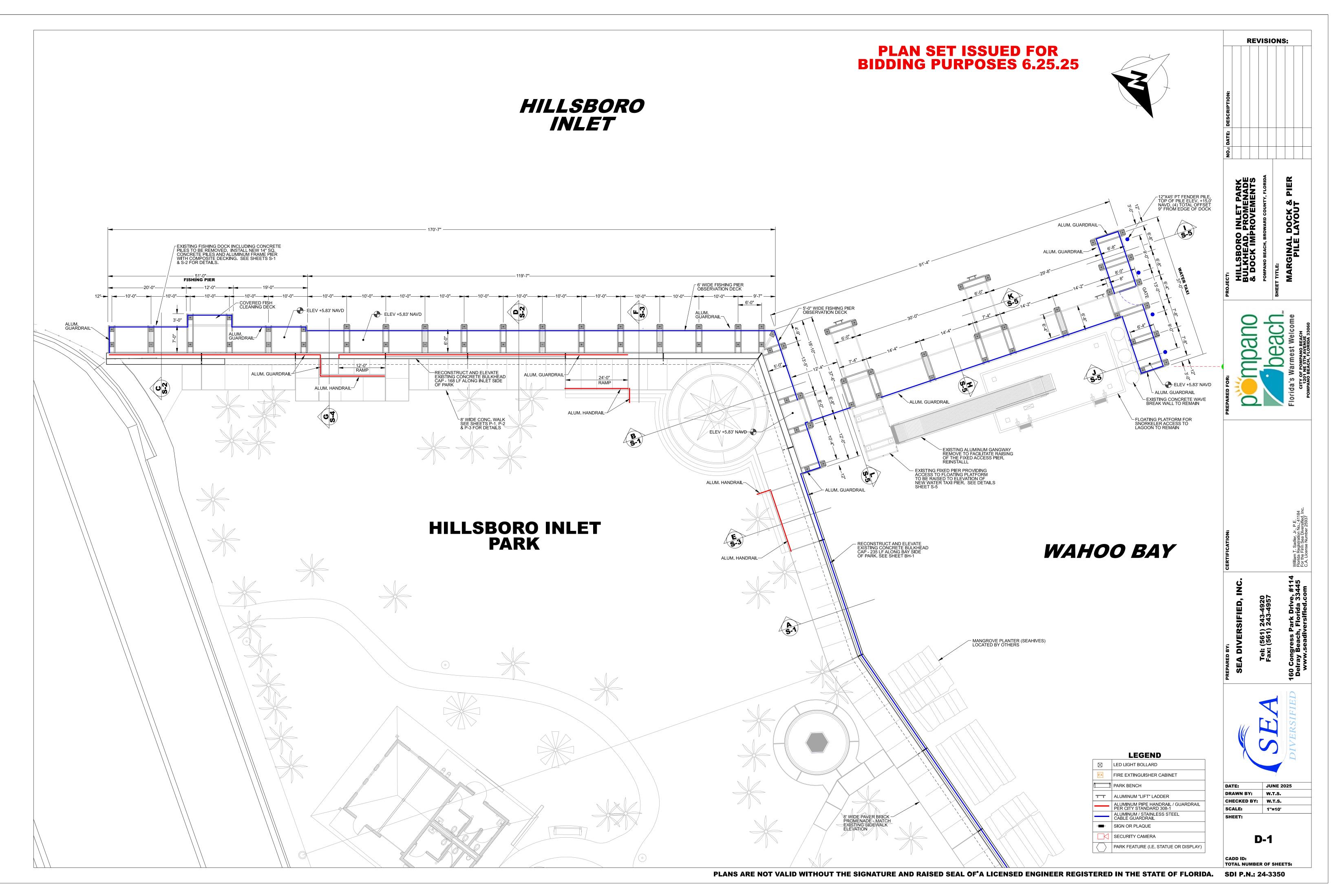


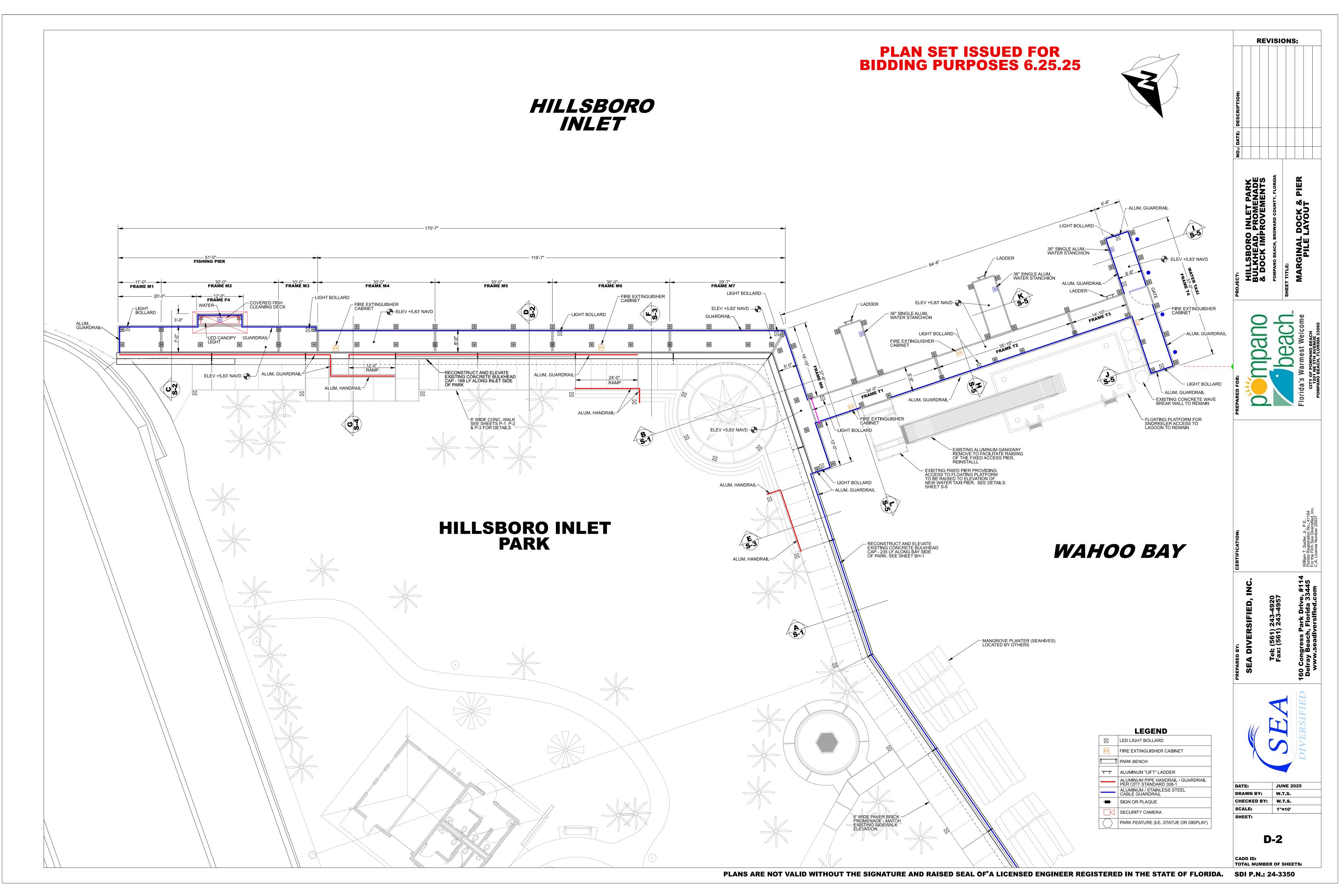


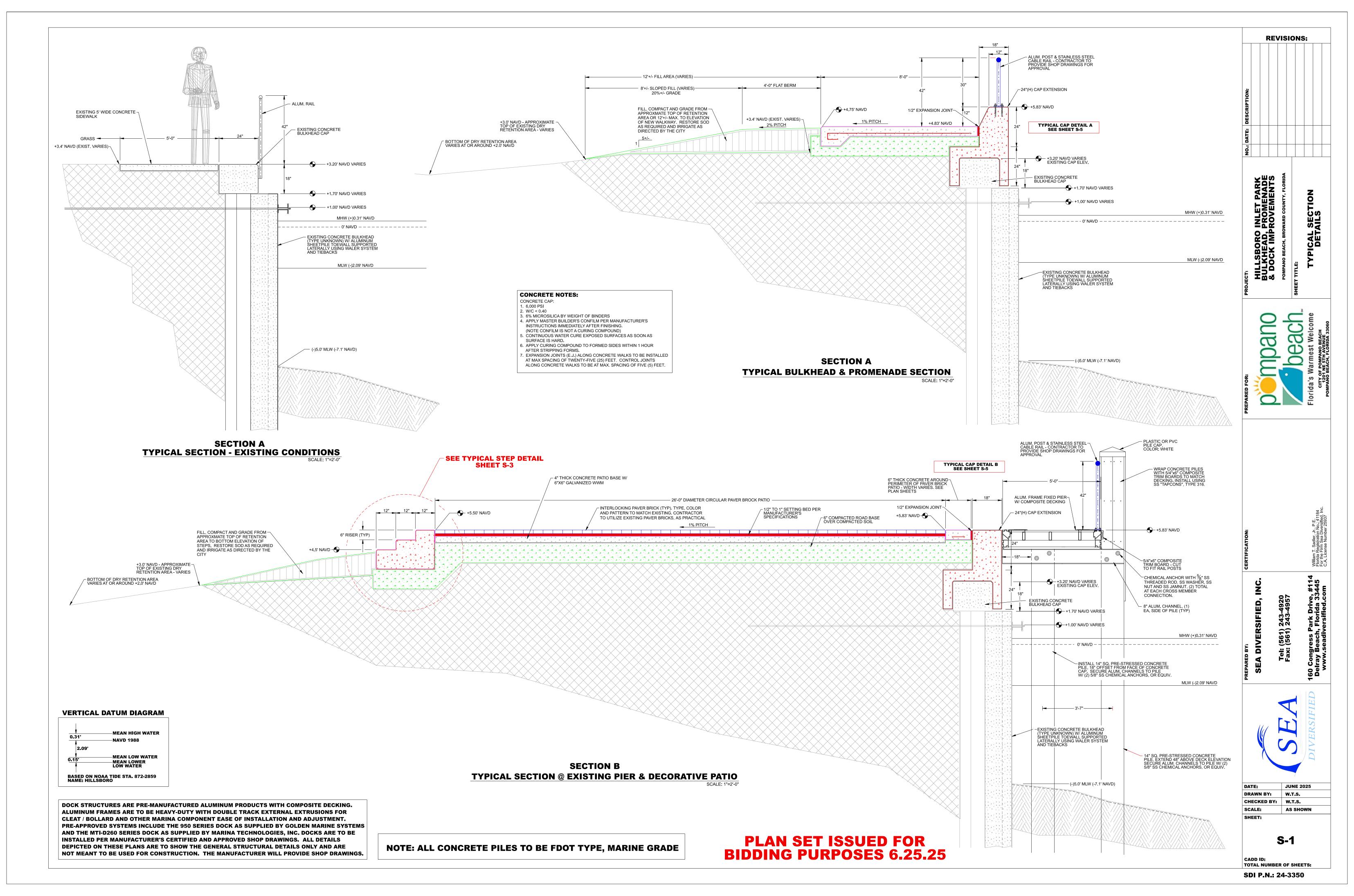


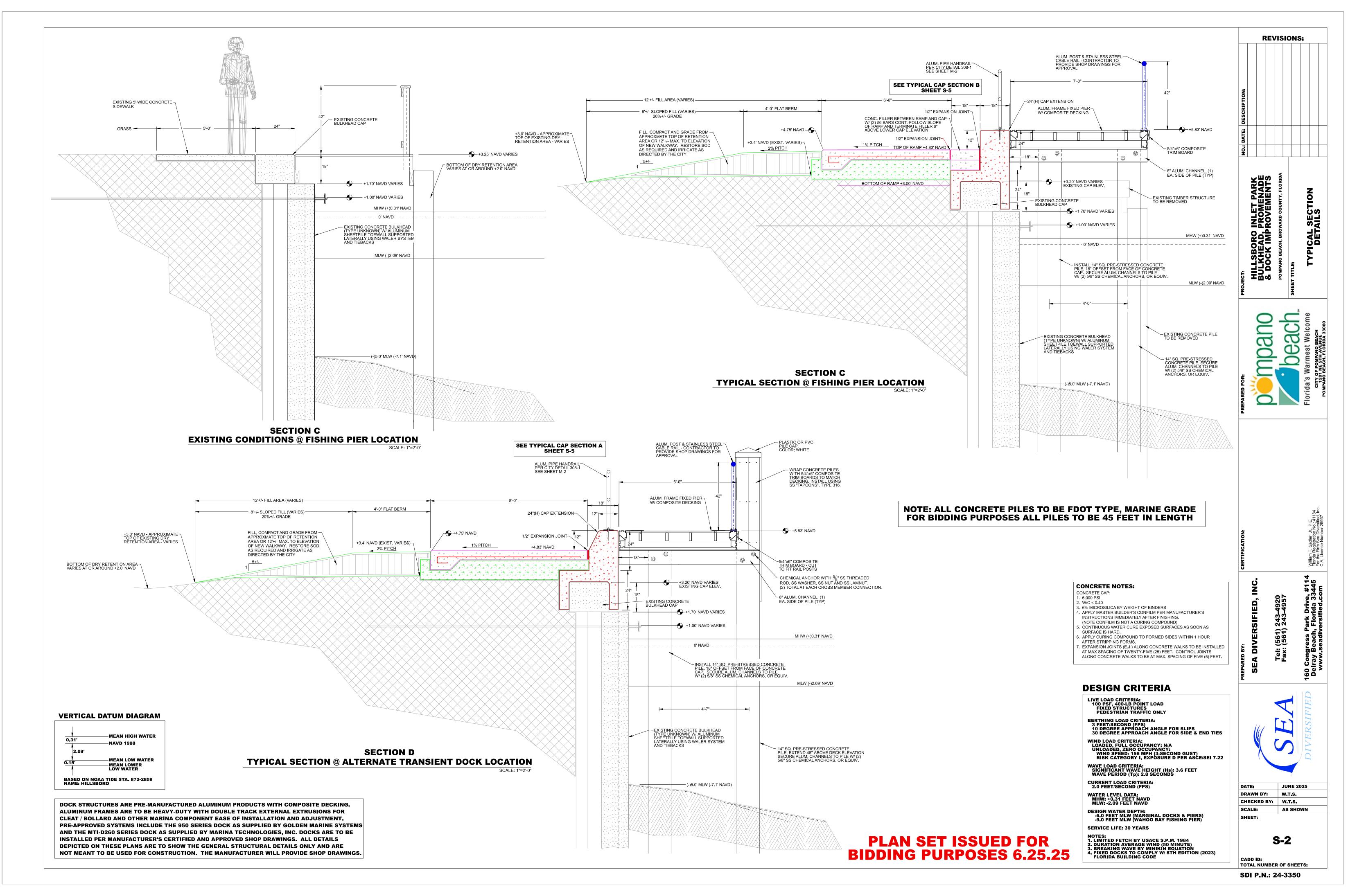


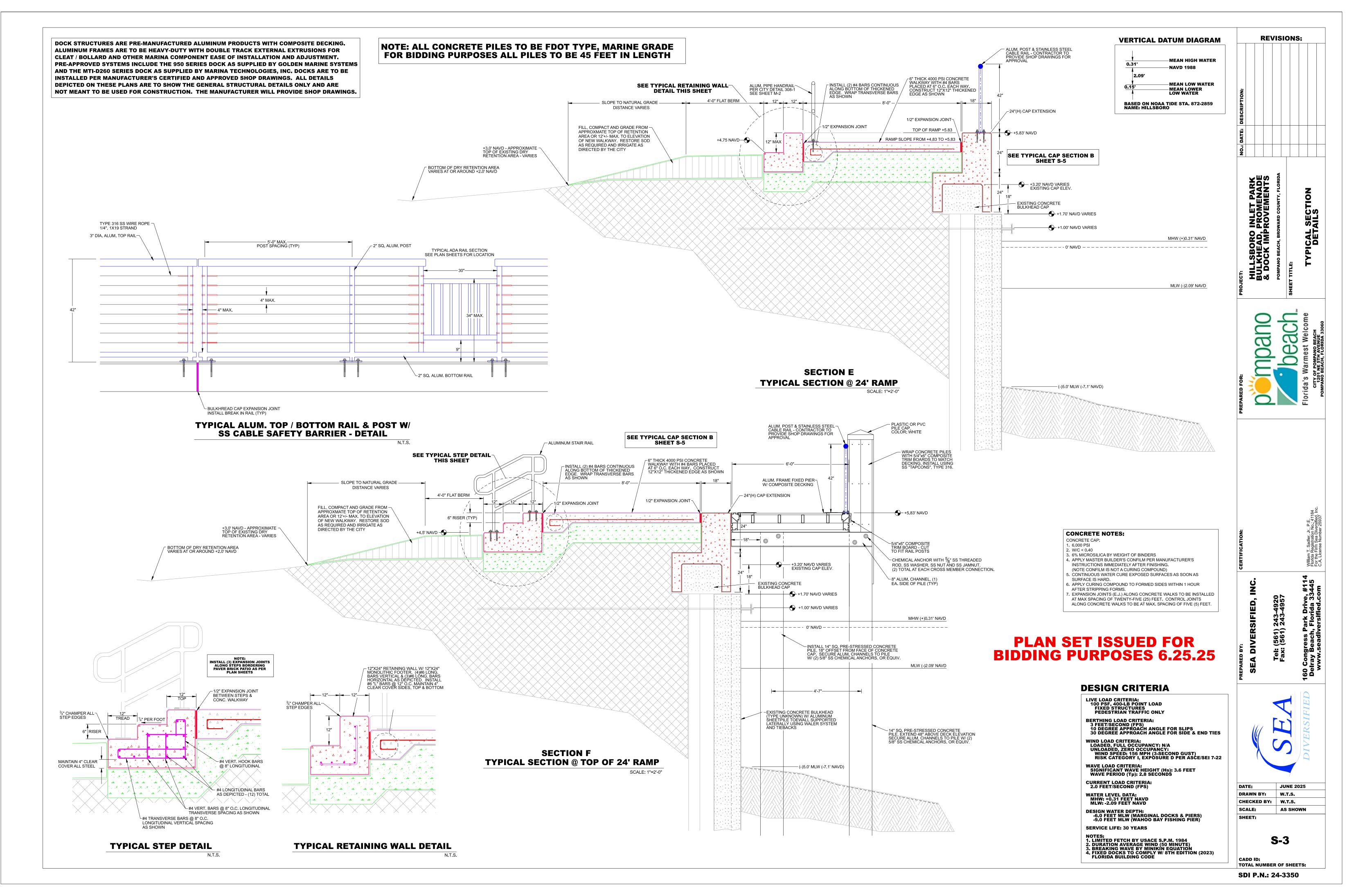


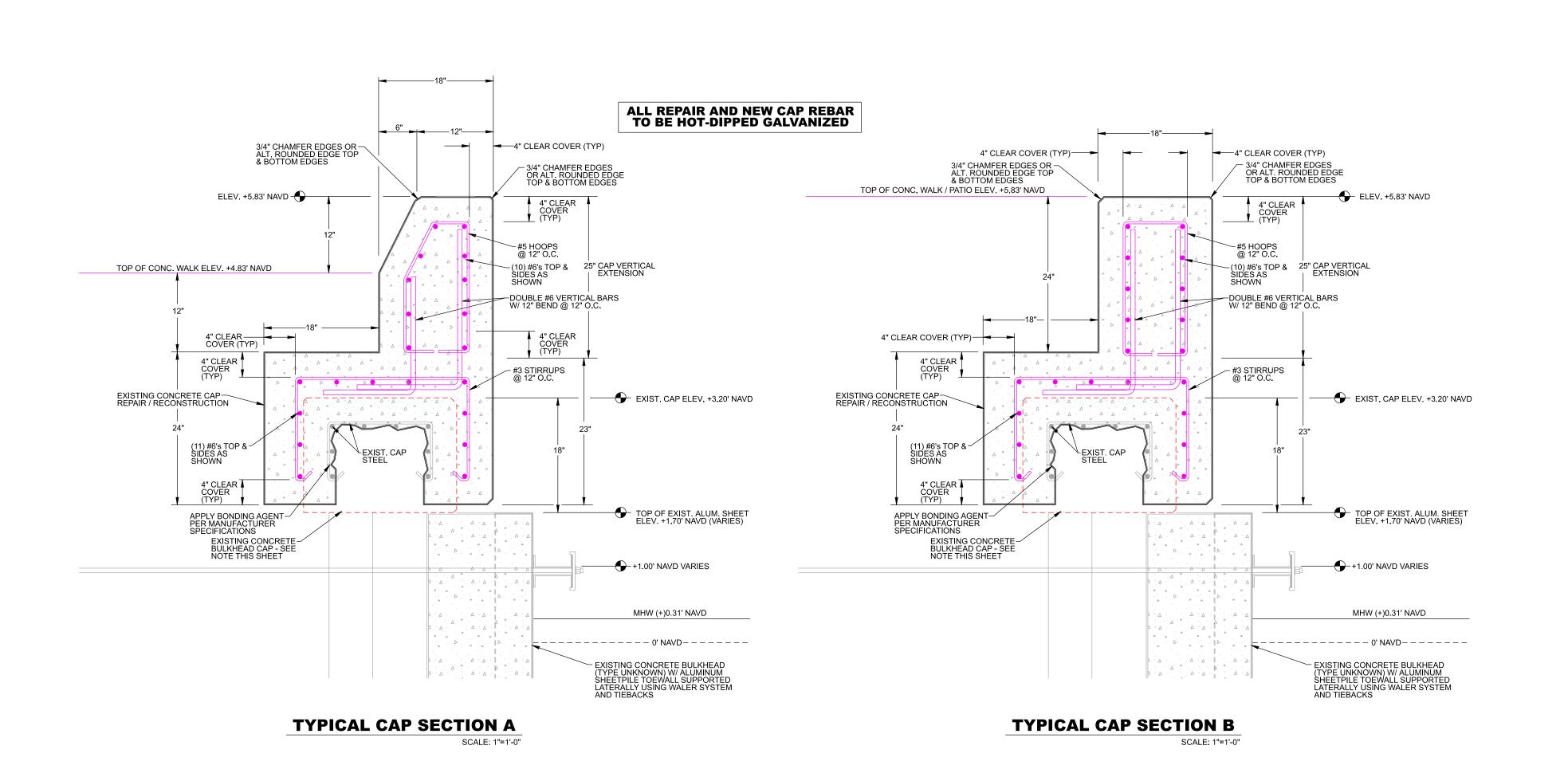


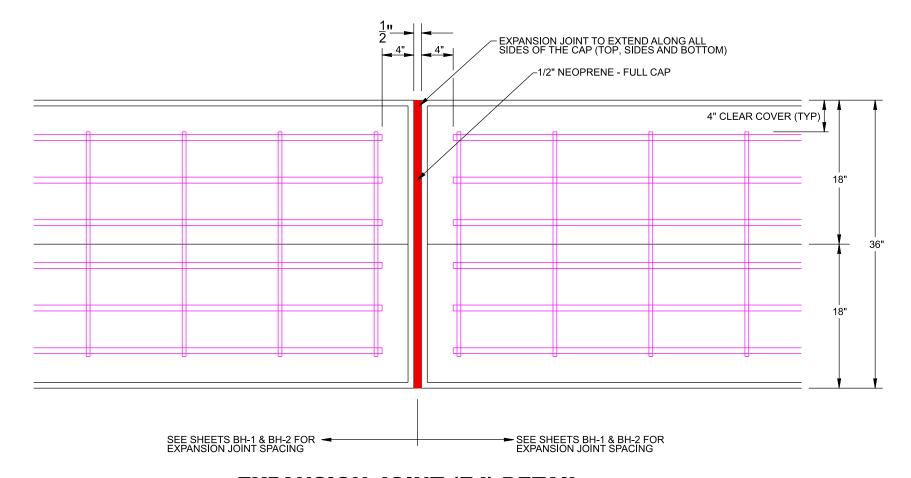








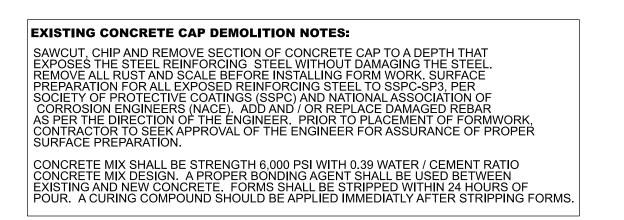




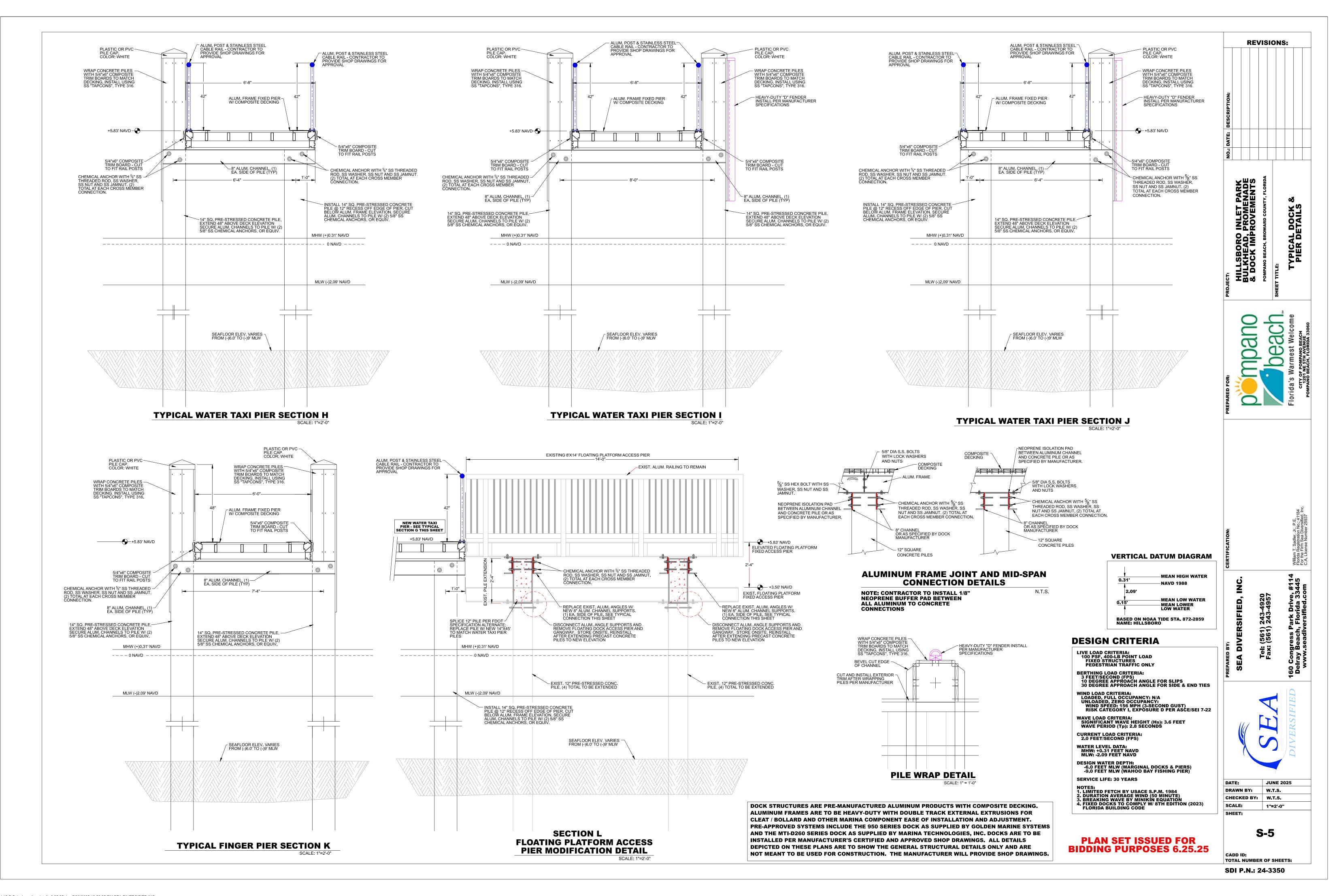
EXPANSION JOINT (EJ) DETAIL SCALE: 1"=1'-0"

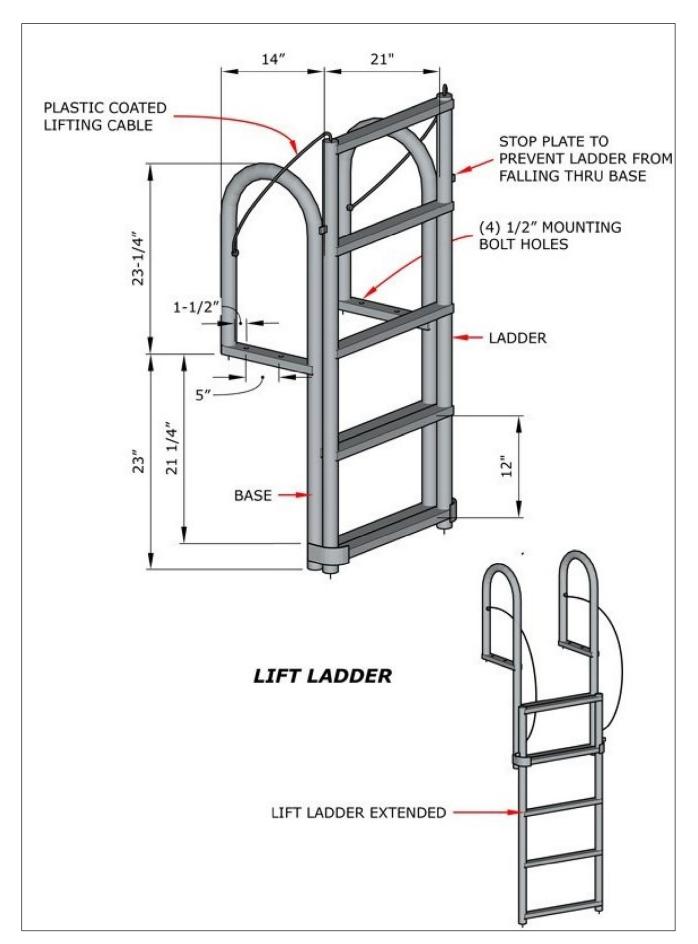
CONCRETE NOTES: CONCRETE CAP:

- 1. 6,000 PSI 2. W/C < 0.40
- 3. 6% MICROSILICA BY WEIGHT OF BINDERS4. APPLY MASTER BUILDER'S CONFILM PER MANUFACTURER'S
- 4. APPLY MASTER BUILDER'S CONFILM PER MANUFACTURER
 INSTRUCTIONS IMMEDIATELY AFTER FINISHING.
 (NOTE CONFILM IS NOT A CURING COMPOUND)
- 5. CONTINUOUS WATER CURE EXPOSED SURFACES AS SOON AS SURFACE IS HARD.
- 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.



REVISIONS: npano act DIVERSIFIED, Tel: (561) 243-4920 Fax: (561) 243-4957 **JUNE 2025** DRAWN BY: W.T.S. CHECKED BY: W.T.S. SCALE: 1"=1'-0" SHEET: **S-4** TOTAL NUMBER OF SHEETS: SDI P.N.: 24-3350





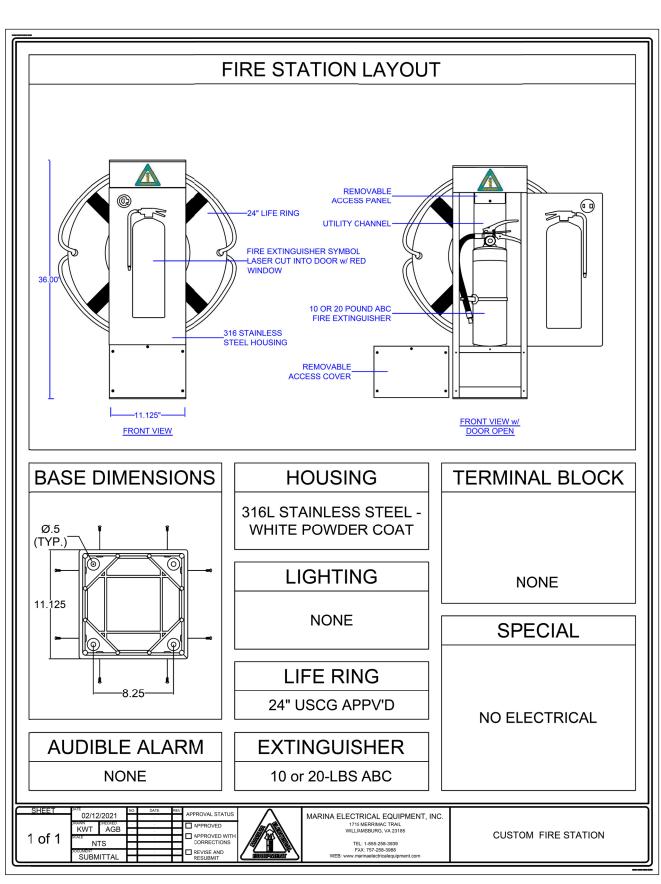
TYPICAL LADDER DETAIL (AS SUPPLIED BY INTERNATIONAL DOCK PRODUCTS, DOCK BUILDERS SUPPLY, OR EQUIVALENT)



TYPICAL FIRE EXTNGUISHER CABINET (AS SUPPLIED BY MARINA ELECTRICAL EQUIPMENT, EATON CORPORATION OR EQUIVALENT)



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



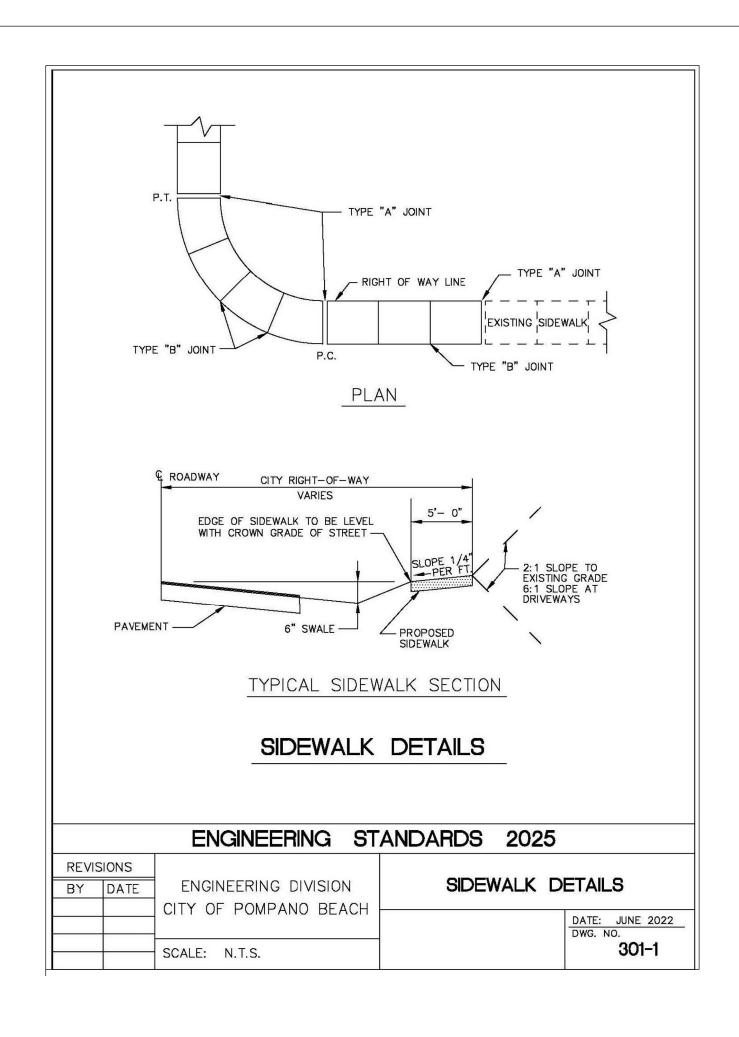
TYPICAL FIRE EXTINGUISHER CABINET DETAIL (ALTERNATE WITHOUT LIGHT & ALARM) (AS SUPPLIED BY MARINA ELECTRICAL EQUIPMENT, EATON CORPORATION OR EQUIVALENT)

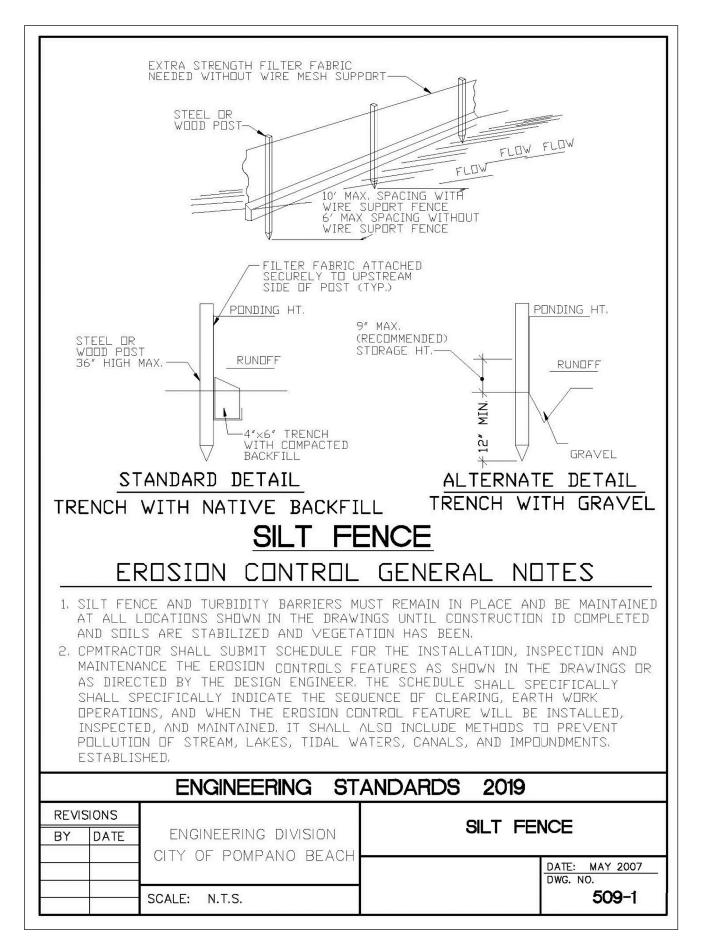


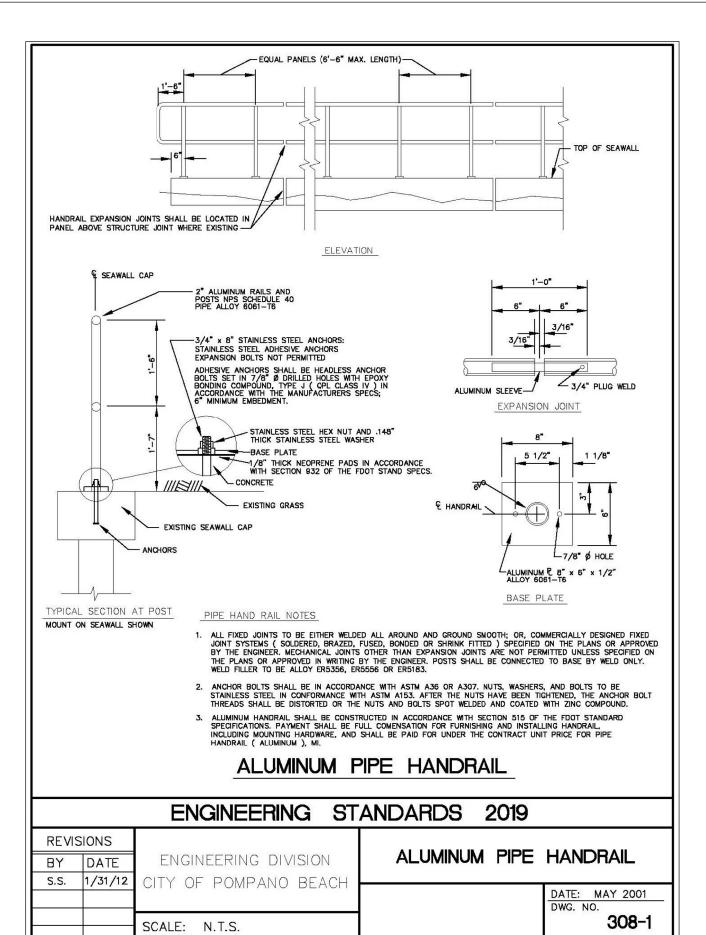
EXISTING ALUMINUM W/ STAINLESS STEEL CABLE RAIL SYSTEM (CONTRACTOR TO MATCH FOR RAILS ON THE WATER TAXI DOCK, FISHING PIER EXTENSION & RAILS ALONG TOP OF BULKHEAD. ALL OTHER RAILS PER DETAILS PROVIDED, HEREIN.

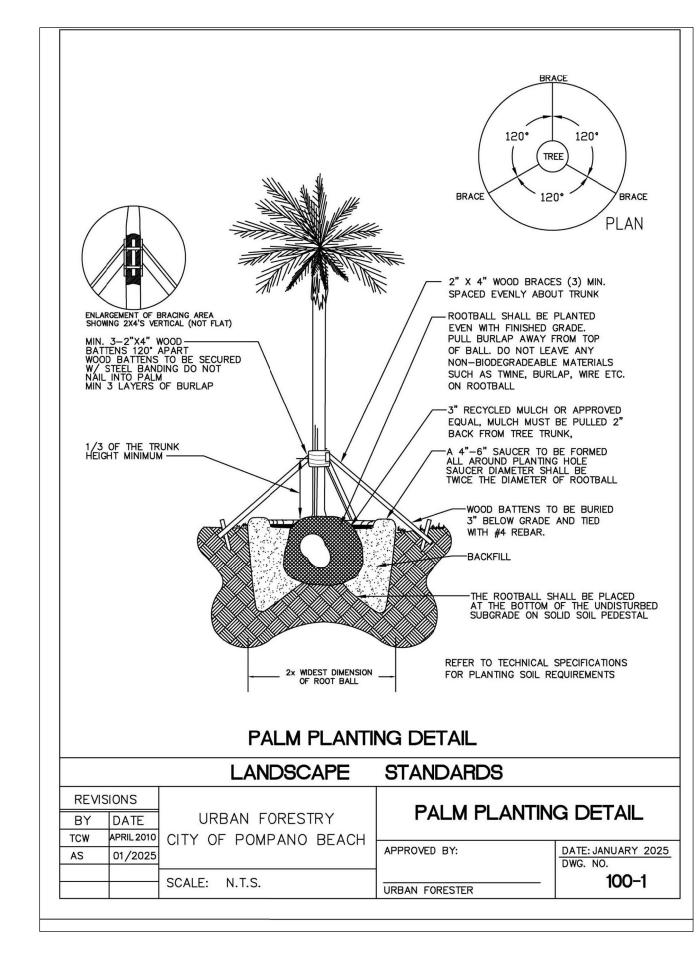
JUNE 2025 DRAWN BY: W.T.S. CHECKED BY: W.T.S. 1"=10' PLAN SET ISSUED FOR BIDDING PURPOSES 6.25.25 M-1 TOTAL NUMBER OF SHEETS: SDI P.N.: 24-3350

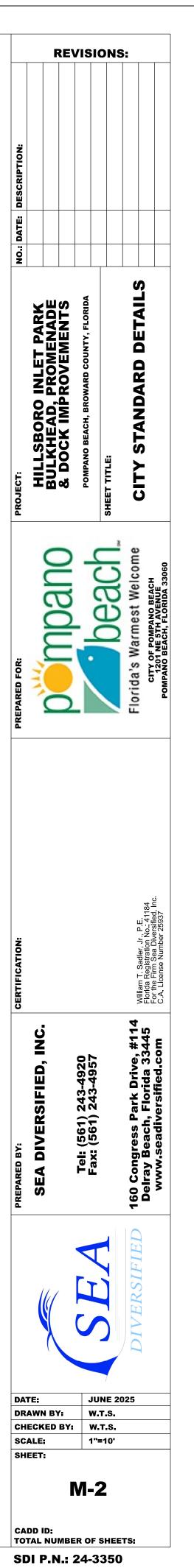
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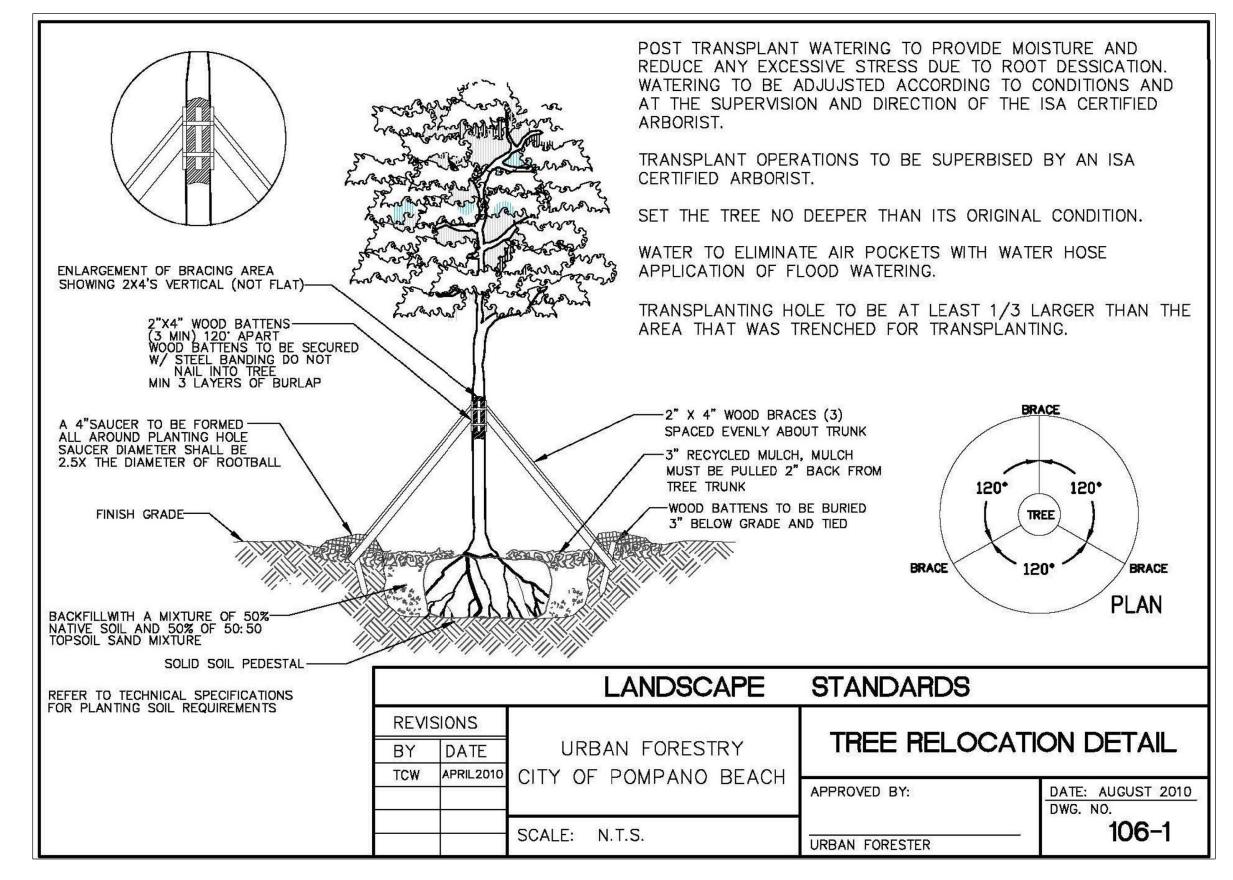












TREE RELOCATION PROCEDURAL SPECIFICATION

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

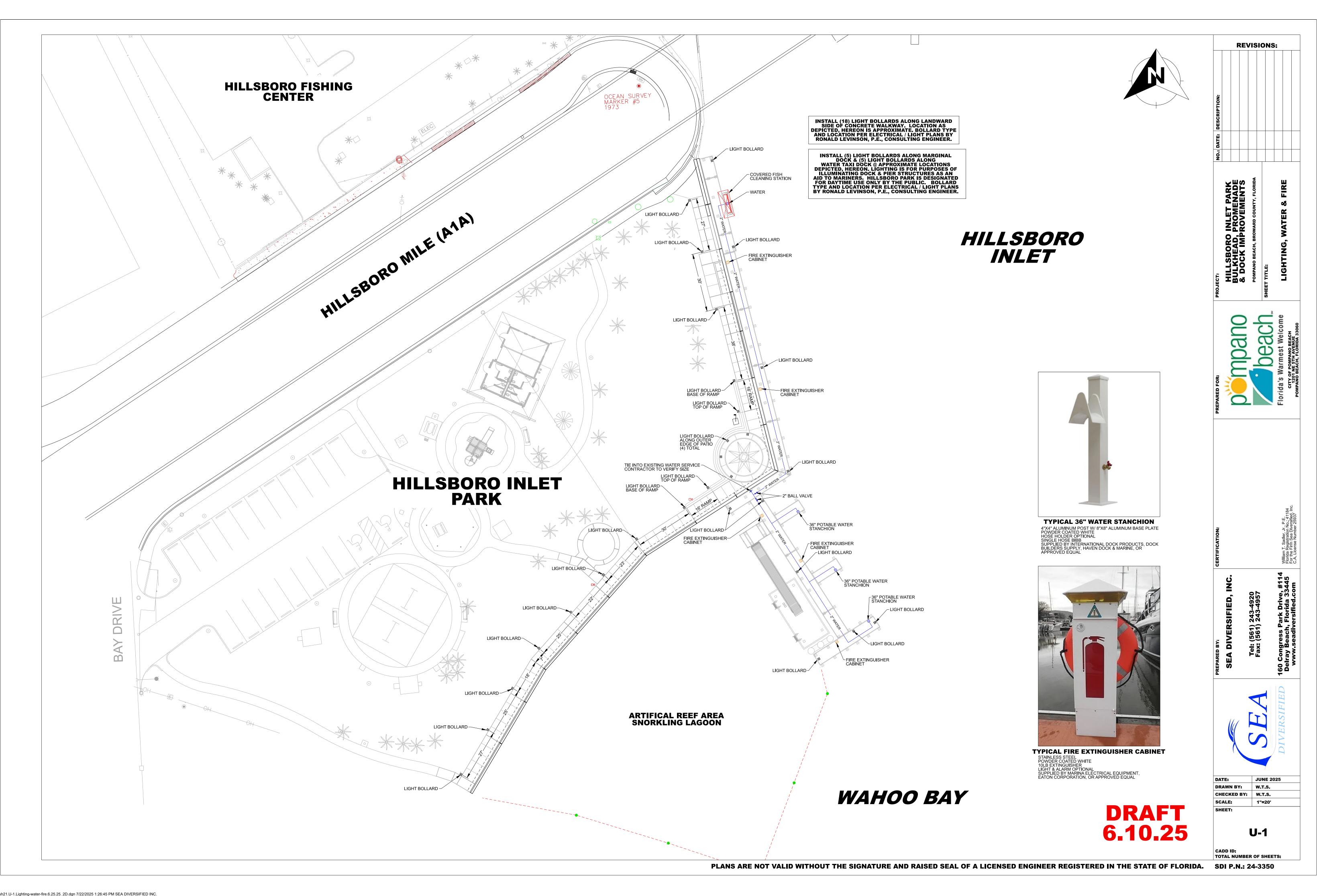
62 - Definitions

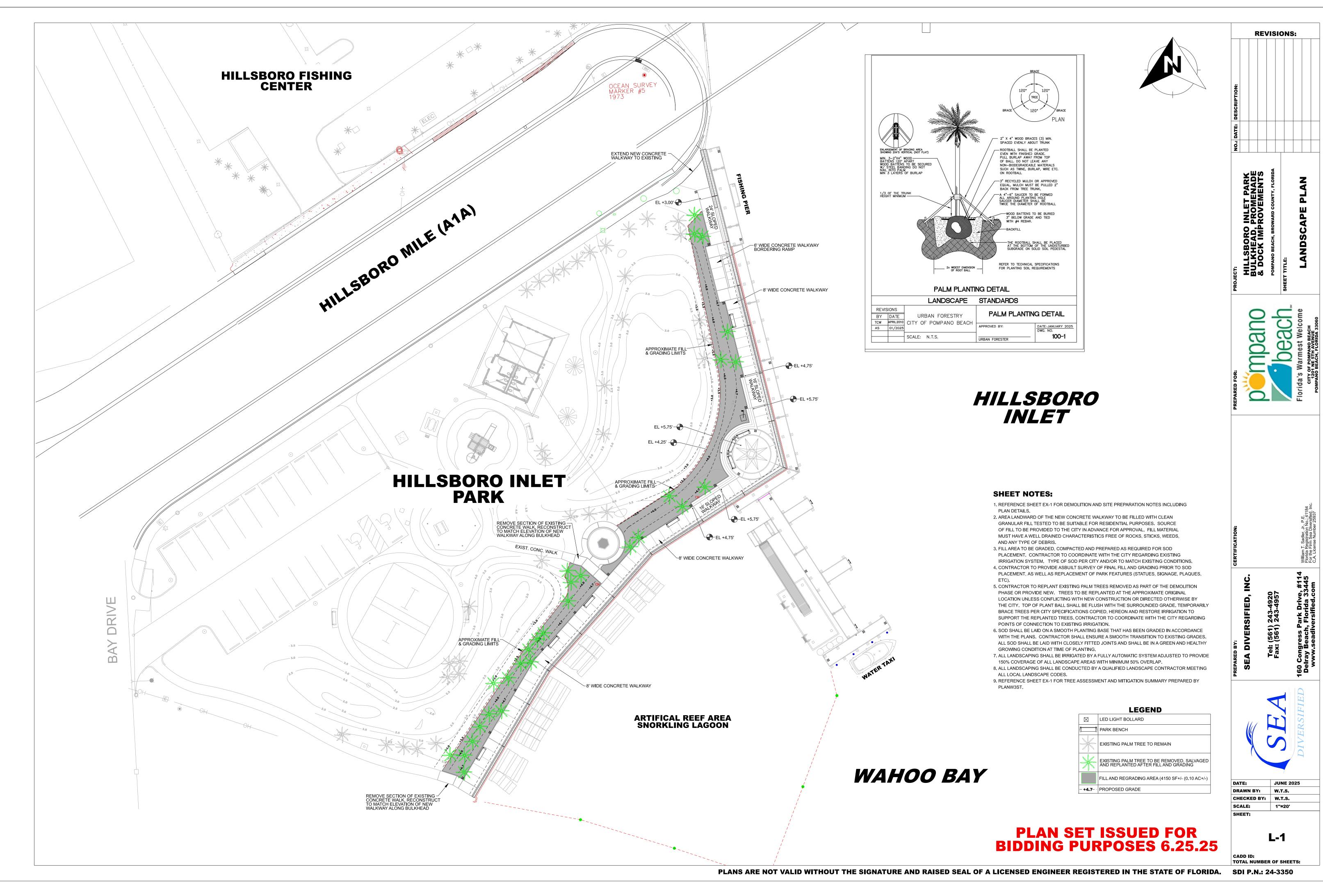
63 — Transplanting Practices

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





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 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
- 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 MANUFACTURER's staging plan to avoid conflicts
- 4. The CITY or ENGINEER shall have the right to exercise reasonable alterations or additions to the plan
- 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
- 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
- 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
- 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
- 10. The CONTRACTOR shall follow all applicable local, state and federal codes regarding site safety and

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
- 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.
- 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 technical 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 ınforeseen 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
- 3. The CONTRACTOR is advised that certification of the project elevation and alignment is required for
- 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
- * 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" \times 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

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,
- 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 offloating the contract of the products during the offloating the contract of the products during the offloating the contract of the products during the contract of the product o 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
- 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

to refund to the CITY the original purchase price, or devalued price based on number of years in service

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". berforming 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 on approved by the ENGINEE
- 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
- 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

for six (6) minutes prior to recording the lateral deflection and release.

- 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
- 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

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 mitted 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
- 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 chemical 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
- 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
- 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
- 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
- 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

CONTRACTOR's expense.

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 pulkhead 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

REVISIONS:

INLET PARK PROMENADE PROVEMENTS AND ILLSBORO ULKHEAD, F DOCK IMPE



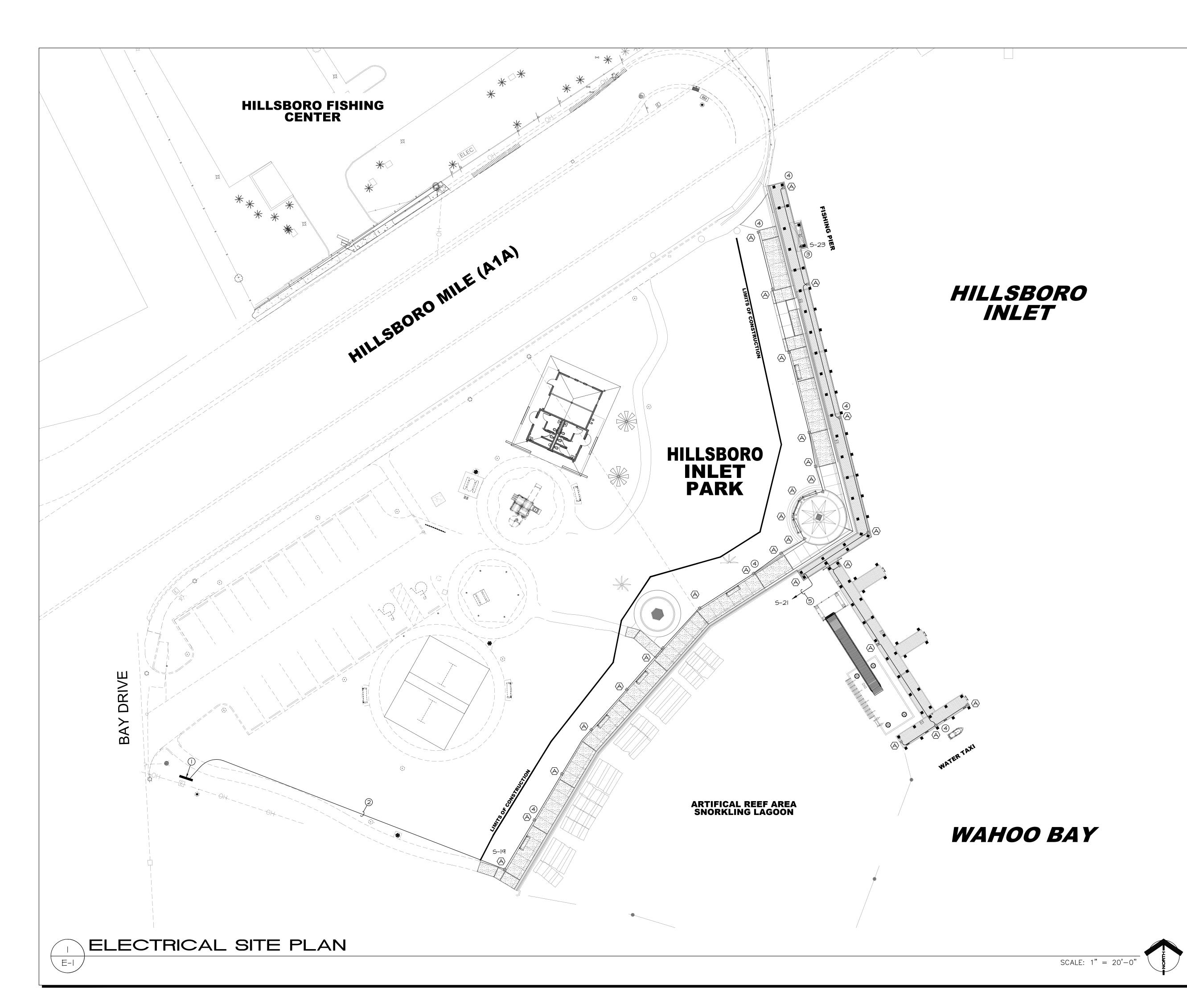


JUNE 2025 DRAWN BY: CHECKED BY: W.T.S. SHEET:

TOTAL NUMBER OF SHEETS:

BIDDING PURPOSES 6,25,25

PLAN SET ISSUED FOR



PLAN NOTES:

- 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#IO,I#IOG.
- (3) WP GFI RECEPTACLE AT FISH CLEANING STATION PROVIDE LOCKING NEMA 3R WEATHERPROOF IN-USE COVER AND RUN 3/4"C-2#10,1#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#10,1#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:

- I. 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 #12AMG). CONTRACTOR SHALL ADJUST WIRE AND CONDUIT SIZES IF OTHER INSULATION TYPES ARE USED.
- 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
- ALL WORK SHOWN ON THE ELECTRICAL PLANS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

ELECTRICAL SYMBOL LEGEND:

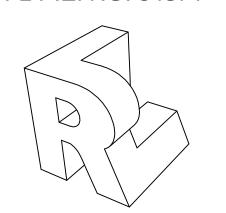
LEVINSON, P.E. 530 S. Federal Hwy.

RONALD L.

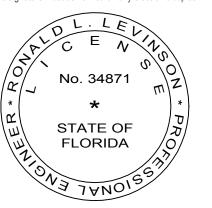
530 S. Federal Hwy. Suite No. 4 Lake Worth Beach Florida 33460-4681 Ph: (561)379-5835 Fax: (561)582-3700

FL P.E. NO. 34871

LevinsonPE@gmail.com



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 Park

ELECTRICAL UPGRADES

AFCI	ARC FAULT CURRENT INTERRUPTER	
GFI	GROUND FAULT INTERRUPT	
OC	MOUNT DEVICE AT OVER COUNTER HEIGHT	
WP	WEATHERPROOF	27 F
$[\alpha]$	EXHAUST FAN	Ė
Ф	GROUND TYPE DUPLEX RECEPTACLE 120V. +18"AFF TO BOTTOM OF DEVICE.	
\$	S.P.S.T. SWITCH	므
-	LIGHTING FIXTURE	
O4	WALL MOUNTED LIGHTING FIXTURE	F
$\langle \Delta \rangle$	LIGHT FIXTURE TYPE. SEE SCHEDULE.	<u> </u>
\otimes	PLAN NOTE	
_	120/240V PANELBOARD	_
<u> </u>	GROUND CONNECTION	
	DISCONNECT SWITCH	

2700 North Ocean Boulevard Pompano Beach Florida 33062

Date: 6-16-2025
Drawn By: RLL
Checked By: RLL
Project No.: 2504||
Revised: .

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

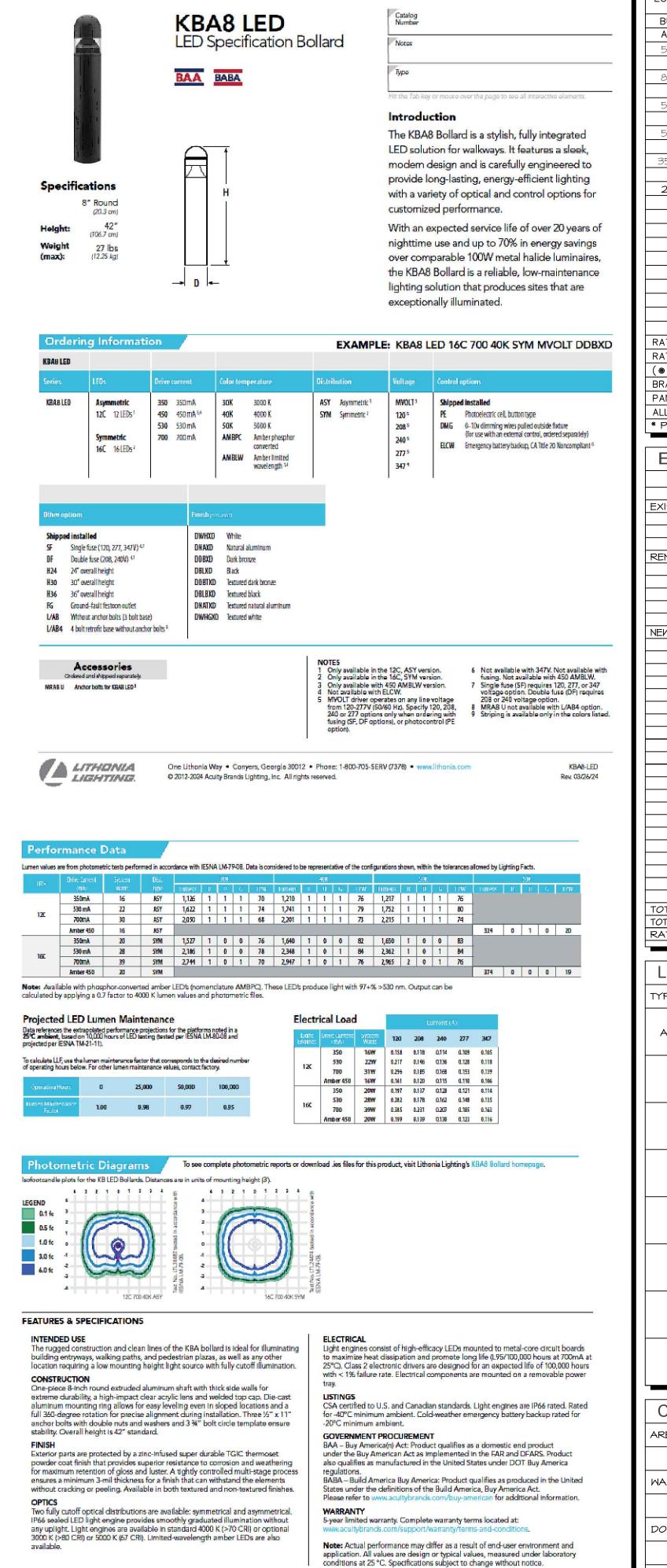
NEW AMBER TURTLE FRIENDLY LED FIXTURES SHALL BE PROVIDED ALONG THE RAISED WALKWAY AND EXISTING DOCK.

THE EXISTING PARKING LOT AND OTHER SITE LIGHTING FIXTURES ARE TO REMAIN

SHEET NO. 1 of 2

E-1

PRELIMINARY NOT FOR CONSTRUCTION

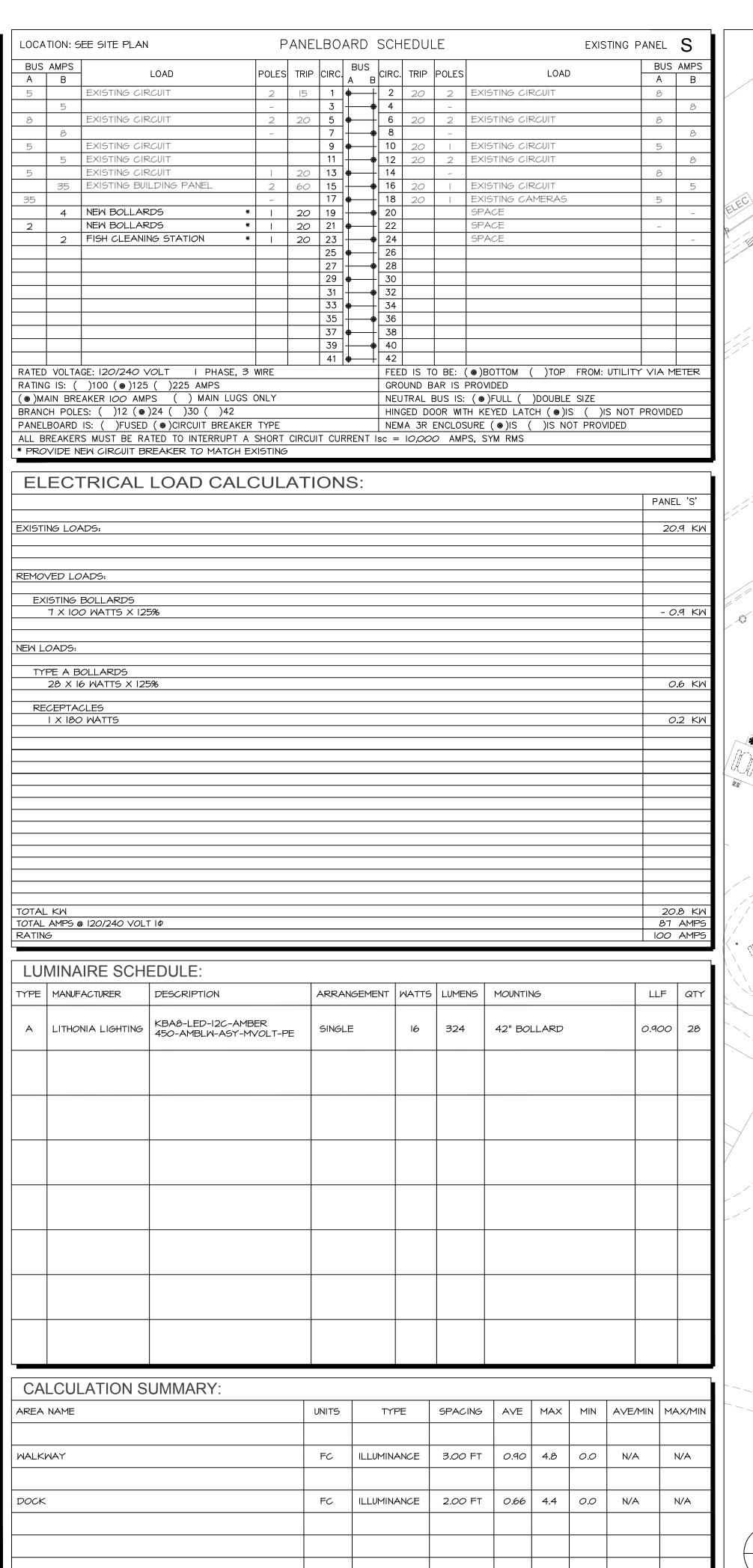


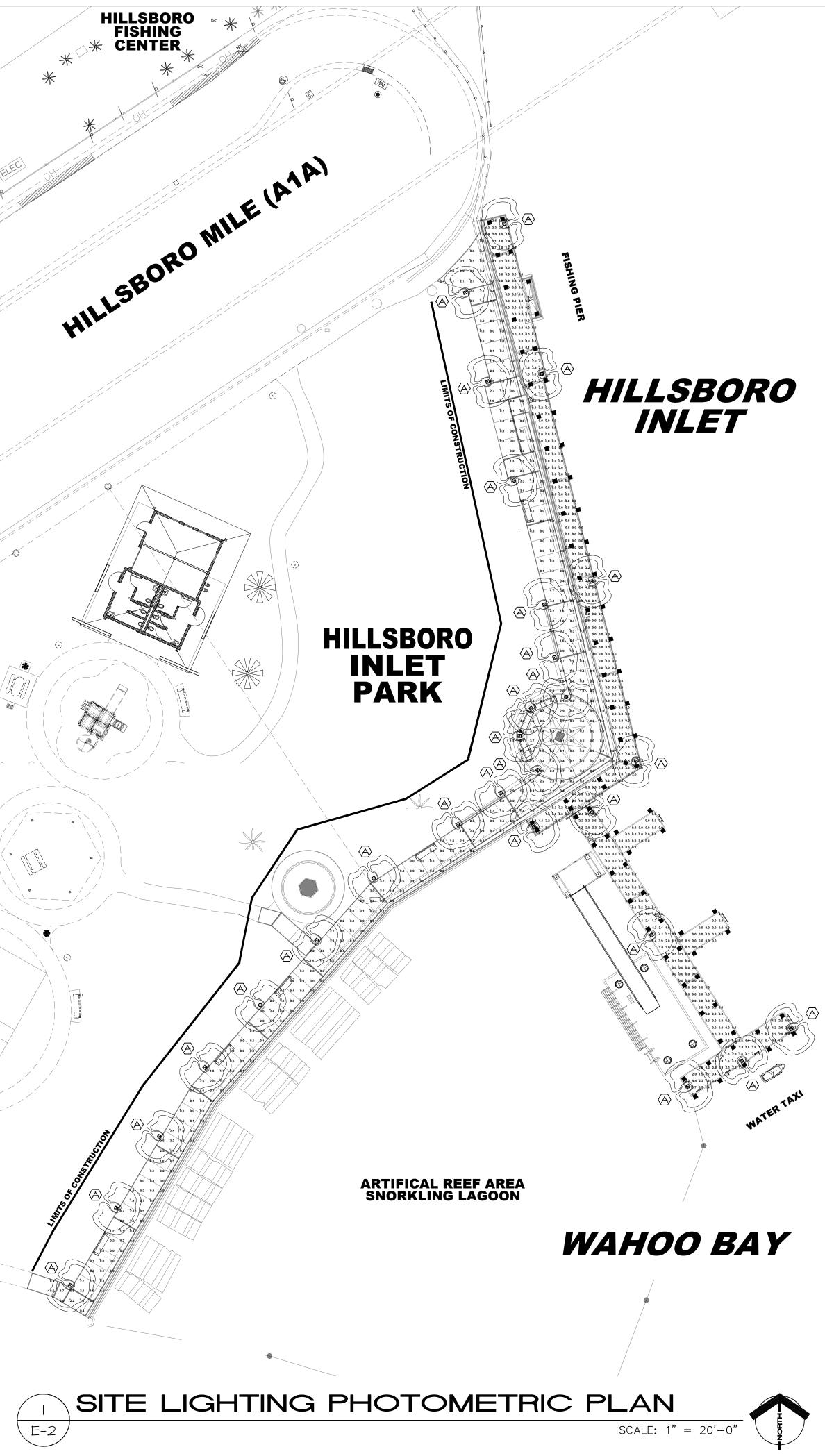
One Lithonia Way . Conyers, Georgia 30012 . Phone: 1-800-705-SERV (7378) . www.lithonia.com

Rev. 03/26/24

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LITHONIA LIGHTING.



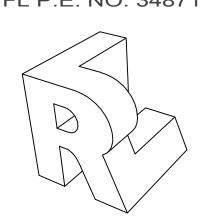


RONALD L. LEVINSON, P.E.

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FL P.E. NO. 34871



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PROJECT:

Hillsboro **Inlet Park**

ELECTRICAL UPGRADES

2700 North Ocean Boulevard Pompano Beach Florida 33062

6-16-2025			
: RLL			
By: RLL			
2504			
Revised:			

SHEET NO. 2 of 2

PRELIMINARY NOT FOR CONSTRUCTION