

DEPARTMENT OF THE ARMY

JACKSONVILLE DISTRICT CORPS OF ENGINEERS 9900 SW 107TH AVENUE, SUITE 203 MIAMI, FL 33176

September 26, 2018

Regulatory Division South Permits Branch Miami Permits Section SAJ-2012-03197 (NW-NDF)

City of Miami c/o Daniel Rotenberg 444 SW 2nd Avenue, 3rd Floor Miami, FL 33130

Dear Mr. Daniel Rotenberg:

The U.S. Army Corps of Engineers (Corps) assigned your application for a Department of the Army permit, which the Corps received on August 17, 2018, the file number SAJ-2012-03197. A review of the information and drawings provided indicates that the proposed work includes the following:

- 1. Removal of all unauthorized floating docks and floating vessel platforms from the north side of the facility.
- 2. Removal and replacement of Pier 5 along the north and west sides of the marina. The area to be replaced consists of 6,242.6 square feet of marginal dock (4,295.2 square feet of concrete frame with 1,947.4 square feet of grated decking) along 568 linear feet of shoreline. The dock will be supported by existing concrete piles with the exception of 6 new concrete piles to be installed in the northwest corner of the facility for additional support.
- 3. Replacement and reinstallation in the same footprint of three 40 foot long by 4 foot wide wood piers (480 square feet total over water area) supported by 16 wood piles each (48 wood piles total).
- 4. Replacement in the same footprint of 25 wood mooring piles within the reconstructed section of Pier 5.
- 5. All utilities associated with the reconstructed section of Pier 5 will be replaced in-kind.
- 6. Temporary turbidity curtains will be deployed and remain in place for the duration of all in-water activities in/over waters of the United States.

The project would affect waters of the United States associated with Biscayne Bay at 401 Biscayne Blvd, in Section 06, Township 54 South, Range 42 East, City of Miami, Miami-Dade County, Florida (Folio Number 01-0100-000-0520).

Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) Number 3. In addition, project specific conditions have been enclosed. This verification is valid until March 18, 2022. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Please access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory Internet page to access Internet links to view the Final Nationwide Permits, Federal Register Vol. 82, dated January 6, 2017, specifically pages 1983 to 2008, and the table of Regional Conditions. The Internet page address is:

http://www.saj.usace.army.mil/Missions/Regulatory.aspx

Please be aware this Internet address is case sensitive and should be entered as it appears above. Once there you will need to click on "Source Book"; and, then click on "Nationwide Permits." These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 3. Enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

- 1. **Reporting Address**: The Permittee shall submit all reports, notifications, documentation and correspondence required by the general and special conditions of this permit to the following address:
- a. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Special Projects and Enforcement Branch, 9900 Southwest 107th Avenue, Suite 203, Miami, Florida 33176.
- b. For electronic mail SAJ-RD-Enforcement@usace.army.mil (not to exceed 10 MB).

The Permittee shall reference this permit number, SAJ-2012-03197 (NW-NDF), on all submittals.

- 2. **Self-Certification**: Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached "Self-Certification Statement of Compliance" form (Attached) and submit it to the Corps. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.
- 3. **Assurance of Navigation and Maintenance**: The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
- 4. **Posting of Permit:** The Permittee shall ensure that all contractors, subcontractors, and entities associated with the implementation of the project review, understand, and comply with the approved plans and special conditions made part of this permit. The Permittee shall inform all parties associated with the activity of the construction area boundaries, and the location of adjacent *wetland shoreline* to be avoided. Complete copies of the permit and approved plans shall be available at the construction site at all times. Failure to comply with the approved plans and permit special conditions may subject the Permittee to enforcement action.
- 5. **Agency Changes/Approvals:** Should any other agency require and/or approve changes to the work authorized or obligated by this permit, the Permittee is advised a re-verification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a reverification of this permit from the **Miami** Permits Section. The Corps reserves the right to fully evaluate, amend, and approve or deny the request for reverification of this permit.

6. Historic Properties:

- a. No structure or work shall adversely affect impact or disturb properties listed in the National Register of Historic Places (NRHP) or those eligible for inclusion in the NRHP.
- b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.
- c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.
- d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist and from the Corps.

- 7. **Turbidity Barriers**: Prior to the initiation of any of the work authorized by this permit, the Permittee shall install floating turbidity barriers with weighted skirts that extend to within 1 foot of the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained until the authorized work has been completed and all suspended and erodible materials have been stabilized. Turbidity barriers shall be removed upon stabilization of the work area.
- 8. **Manatee Conditions:** The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work 2011" (Attached).
- 9. **Sea Turtle and Smalltooth Sawfish Conditions:** The Permittee shall comply with National Marine Fisheries Service's "Sea Turtle and Smalltooth Sawfish Construction Conditions" dated March 23, 2006 (Attached).
- 10. **Project Design Criteria (PDC) for In-Water Activities:** The Permittee shall comply with National Marine Fisheries Service's "PDCs for In-Water Activities" dated 20 November 2017 (Attached).
- 11. PDC for In-Water Noise from Pile and Sheet Pile Installation: The maximum number of piles installed per day is limited to no more than 10 piles per day.
- 12. Daylight Hours: All activities must be completed during daylight hours.
- 13. **Presence of Species:** All construction personnel are responsible for observing water-related activities to detect the presence of these species and avoid them.
- 14. **Construction Location:** Project construction shall take place from uplands or from floating equipment (e.g., barge); prop or wheel-washing is prohibited.
- 15. **Educational Signs**: signs must be posted in a visible location(s), alerting users of listed species in the area susceptible to vessel strikes and hook-and-line captures. The most current version of the signs that must be downloaded and sign installation guidance are available at:

 (http://sero.nmfs.noaa.gov/protected_resources/section_7/protected_species_ed_ucational_signs/index.html). The signs required to be posted by area are stated below:
- All projects in Florida shall use the Save Sea Turtle, Sawfish, and Dolphin sign. These signs shall include contact information to the sea turtle and marine mammal stranding networks and smalltooth sawfish encounter database.

- Projects within the North Atlantic right whale educational sign zone shall post the Help Protect North Atlantic Right Whales sign.
- On the east coast of Florida, projects located within the St. John's River and those occurring north of the St. Johns River to the Florida-Georgia line shall post the Report Sturgeon sign. On the west coast of Florida, projects occurring from the Cedar Key, Florida north to the Florida-Alabama line.
- Signs to be used in the U.S. Caribbean will be included at the website above.
- 16. **Monofilament Recycling Bins**: monofilament recycling bins must be provided at the docking facility to reduce the risk of turtle or sawfish entanglement in, or ingestion of, marine debris. Monofilament recycling bins must:
- Be constructed and labeled according to the instructions provided at http://mrrp.myfwc.com.
- Be maintained in working order and emptied frequently (according to http://mrrp.myfwc.com standards) so that they do not overflow.
- 17. **Project Drawings:** The project must be completed in accordance with the enclosed construction drawings (pages 1-12), <u>date-stamped by the U.S. Army Corps of Engineers (Corps) on September 26, 2018</u>, and the general and special conditions which are incorporated in, and made a part of, the permit.

This authorization does not obviate the necessity to obtain any other Federal, State, or local permits, which may be required. Prior to the initiation of any construction, projects qualifying for this NWP/RGP permit must qualify for an exemption under section 403.813(1), F.S. or 373.406, F.S., or otherwise be authorized by the applicable permit required under Part IV of Chapter 373, F.S., by the Department of Environmental Protection, a water management district under section 373.069, F.S., or a local government with delegated authority under section 373.441, F.S., and receive Water Quality Certification (WQC) and applicable Coastal Zone Consistency Concurrence (CZCC) or waiver thereto, as well as any authorizations required for the use of stateowned submerged lands under Chapter 253, F.S., and, as applicable, Chapter 258, F.S. You should check State-permitting requirements with the Florida Department of Environmental Protection or the appropriate water management district.

This authorization does not include conditions that would prevent the 'take' of a state-listed fish or wildlife species. These species are protected under sec. 379.411, Florida Statutes, and listed under Rule 68A-27, Florida Administrative Code. With regard to fish and wildlife species designated as species of special concern or threatened by the State of Florida, you are responsible for coordinating directly with the Florida Fish and Wildlife Conservation Commission (FWC). You can visit the FWC license and permitting webpage (http://www.myfwc.com/license/wildlife/) for more information, including a list

of those fish and wildlife species designated as species of special concern or threatened. The Florida Natural Areas Inventory (http://www.fnai.org/) also maintains updated lists, by county, of documented occurrences of those species.

This letter of authorization does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced NWP, please contact me by telephone at 305-779-6053.

Thank you for your cooperation with our permit program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to complete our automated Customer Service Survey at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. Please be aware this Internet address is case sensitive; and, you will need to enter it exactly as it appears above. Your input is appreciated – favorable or otherwise.

Sincerely,

Nicole Fresard Project Manager

Enclosures
General Conditions
Self-Certification Statement of Compliance
Permit Transfer Request
Site plans dated by the Corps September 26, 2018
FWS Standard Manatee Conditions for In-Water Work (2011)
NMFS Sea Turtle and Smalltooth Sawfish Construction Conditions (2006)
NMFS JaxBO Project Design Criteria (PDCs) for In-Water Activities

Copy/ies Furnished:

Megan Rising, Coastal Systems International (mreising@coastalsystemsint.com)

bcc:

CESAJ-RD-PE

GENERAL CONDITIONS 33 CFR PART 320-330

- 1. The time limit for completing the work authorized ends on March 18, 2022.
- 2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
- 3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort of if the site is eligible for listing in the National Register of Historic Places.
- 4. If you sell the property associated with this permit you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
- 5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
- 6. You must allow a representative from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

SELF-CERTIFICATION STATEMENT OF COMPLIANCE

Permit Number: NWP-3 Application Number: SAJ-2012-03197

Permittee's Name & Address (please print or type):
Telephone Number:
Location of the Work:
Date Work Started: Date Work Completed:
PROPERTY IS INACCESSIBLE WITHOUT PRIOR NOTIFICATION: YES NO
TO SCHEDULE AN INSPECTION PLEASE CONTACTAT
Description of the Work (e.g. bank stabilization, residential or commercial filling, docks, dredging, etc.):
Acreage or Square Feet of Impacts to Waters of the United States:
Describe Mitigation completed (if applicable):
Describe any Deviations from Permit (attach drawing(s) depicting the deviations):
I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).
Signature of Permittee
Date

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: SAJ-2012-03197 (NW-NDF)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Section, Post Office Box 4970, Jacksonville, FL 32232-0019 or electronic mail at saj-rd-enforcement@usace.army.mil.

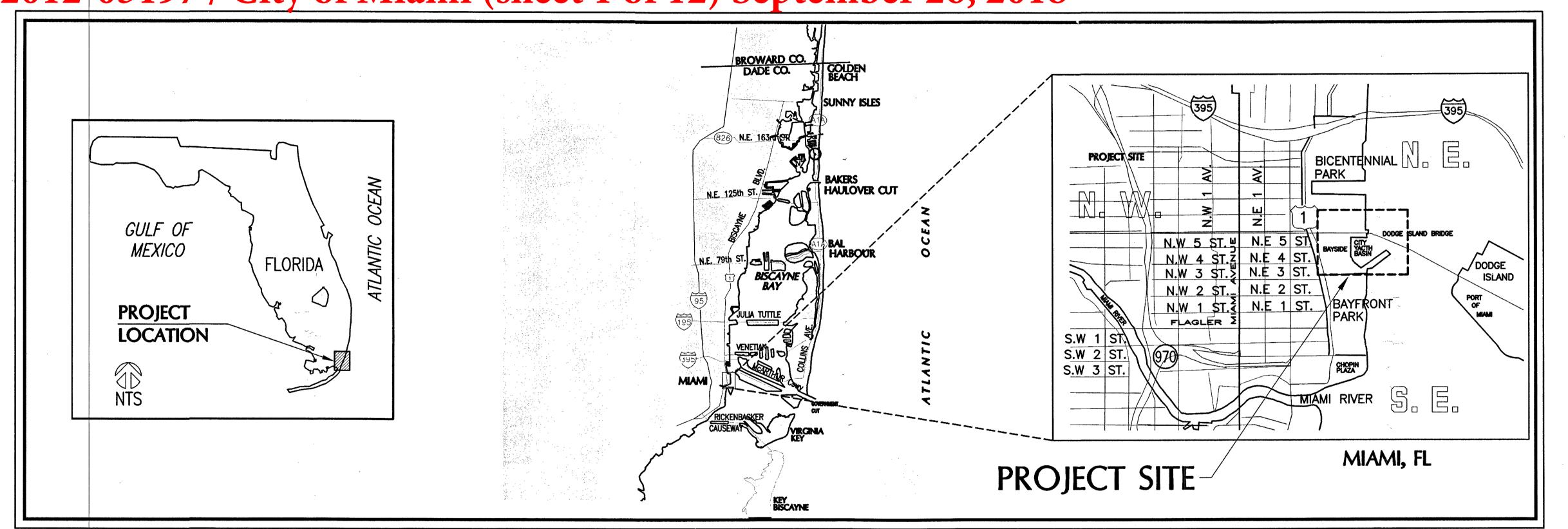
(TRANSFEREE-SIGNATURE)	(SUBDIVISION)
(DATE)	(LOT) (BLOCK)
(NAME-PRINTED)	(STREET ADDRESS)
(MAILING ADDRESS)	
(CITY, STATE, ZIP CODE)	



MIAMARINA PIER 5 IMPROVEMENTS CITY OF MIAMI, FLORIDA

Daniel Rotenberg - Director

SAJ-2012-03197 / City of Miami (sheet 1 of 12) September 26, 2018



LOCATION MAP

VICINITY MAP

INTERNATIONAL

LOCATION SITE PLAN

COMMISSION

Mayor		Francis Surarez
Commissioner D	ist. 1	Wifredo Gort
Commissioner D	ist. 2	Ken Russell
Commissioner D	ist. 3	Joe Carollo
Commissioner D	ist. 4	Manolo Reyes
Commissioner D	ist. 5	Keon Hardemon
City Attorney		Victoria Mendez
City Clerk		Todd B. Hannon

CALL 48 HOURS BEFORE DIGGING CALL TOLL FREE 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

ELECTRICAL ENGINEER

CIVIL ENGINEERS basulto & associates, inc.
comsulting engineers
Mechanical/Electrical Reg. # CA0006722
Rene I. Basulto, P.E. #40869
14160 Palmetto Frontage Road
Suite 22 (305) 698-398 COASTAL Suite 22 (305) 698-3988 Miami Lakes, Florida 33016 Fax (305) 698-3989 SYSTEMS

Sheet List Table					
Sheet Number	Sheet Title				
G-1	COVER				
G-2	GENERAL NOTES				
•	SURVEY				
G-3	MARINA SLIP COUNT				
S-1	DEMOLITION PLAN				
S-2	DOCK REPLACEMENT PLAN I				
S-3	DOCK REPLACEMENT PLAN II				
S-4	DOCK REPLACEMENT STRUCTURAL SECTIONS & DETAILS				
S-5	TURBIDITY CURTAIN & ADDT'L DETAILS				
UT-1	TEMPORARY WATER PLAN				
UT-2	PROPOSED UTILITIES PLAN				
UT-3	PROPOSED UTILITIES PLAN				

CLI 2017-497 RER - NATURAL RESOURCES DIVISION PRELIMINARY APPROVAL

ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (22"x34")

MIAMARINA PIER 5 **IMPROVEMENTS** CITY OF MIAMI, **FLORIDA**

PERMIT PLANS



CONSULTANTS

09/21/18 | DERM REVS.

08/03/18 REPLACEMENT REV. 12/18/17 | PERMIT SET ISSUE DATE DESCRIPTION

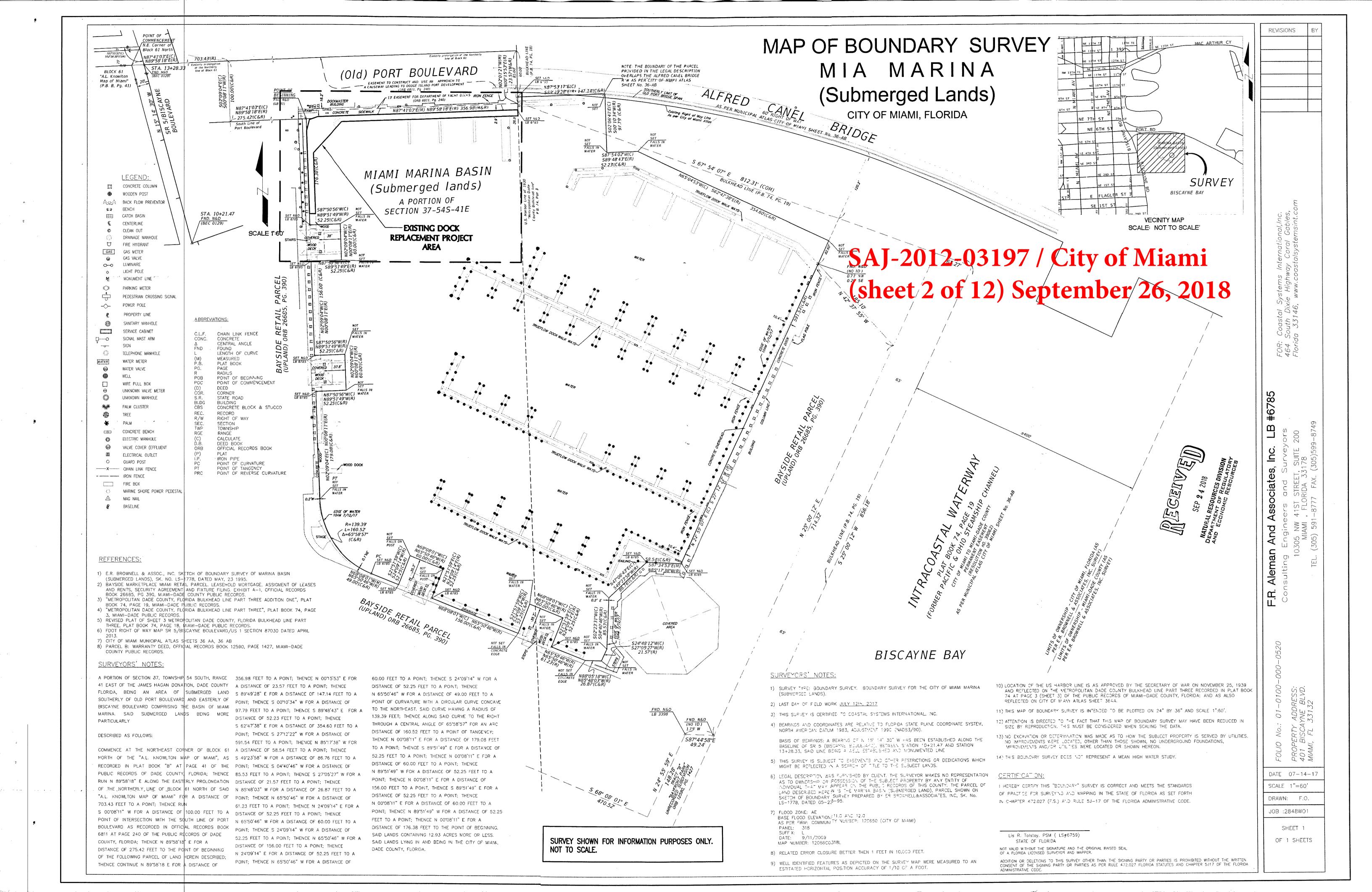
PROJECT NO: DRAWN BY:

CHECKED BY: ENGINEER OF RECORD

220260.07 NAVD88

COVER

G-1



SAJNOTZ 012-03197 / City of Miami (sheets 300 f 12) September 26, 2018

- THE WORK CONSISTS OF FURNISHING ALL CONSTRUCTION, LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH MARINA CONSTRUCTION AS SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL ABIDE BY ALL NOTES AND CONDITIONS INDICATED ON THE CONSTRUCTION PLANS AND PERMITS. IF THE CONTRACTOR VIOLATES ANY CONDITION OF THE PERMIT AND WORK IS STOPPED BY THE STATE OR OTHER PUBLIC ENTITY, THEN ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR SHALL BE PAID BY THE CONTRACTOR AND NOT CHARGED TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL PERMITS NECESSARY FOR THIS WORK. A PRECONSTRUCTION MEETING WILL BE HELD ON-SITE TO VERIFY DETAILS AND METHODS OF CONSTRUCTION.
- 4. ALL ELEVATIONS ARE IN FEET AND ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1929.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OTHER UPLAND CONTRACTORS ON SITE.
- CONTRACTOR SHALL ADHERE TO THE CONSTRUCTION GUIDELINES IN FLORIDA FOR MINOR PILING-SUPPORTED STRUCTURES CONSTRUCTED OVER SUBMERGED AQUATIC VEGETATION (SAV), MARSH OR MANGROVE HABITAT U.S. ARMY CORPS OF ENGINEERS/NATIONAL MARINE FISHERIES SERVICE AUGUST 2001, THE NMFS SEA TURTLE AND SMALL TOOTH SAWFISH CONSTRUCTION GUIDELINES, THE MANATEE PROTECTION PLAN FROM MAIMI-DADE COUNTY, DERM AND FWC.FOR THE IN WATER WORK AND NMFS JOHSNON'S SEAGRASS DOCK CONSTRUCTION GUIDELINES.
- ENGINEER IS RESPONSIBLE FOR OBTAINING ENVIRONMENTAL PERMITS FOR THE PROJECT. A COPY WILL BE PROVIDED TO THE CONTRACTOR, AND THE CONTRACTOR SHALL ABIDE BY ALL REGULATIONS AND PERMIT CONDITIONS.
- ANY DISCREPANCIES IN THE PLANS WITH FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONSTRUCTION SHALL NOT CONTINUE UNTIL THE ENGINEER HAS ADDRESSED THE DISCREPANCIES.
- FOR LEGEND SYMBOLS REFER TO INDIVIDUAL PLAN SHEETS.
- MIAMARINA IS AN OPERATING MARINA, AND CONTRACTOR SHALL COORDINATE CONSTRUCTION OPERATIONS WITH MARINA MANAGEMENT. CONTRACTOR SHALL PROTECT CONSTRUCTION AREA WITH TEMPORY FENCING AND SIGNAGE AND PREVENT PEDESTRIAN ACCESS.

DESIGN LOADS:

1. DOCKS ARE DESIGNED FOR 100 PSF LIVE LOAD.

SURVEY NOTES:

- 1. UPLAND SURVEY DATA OBTAINED FROM F.R. ALEMAN AND ASSOCIATES, INC. DATED: 07/14/17.
- 2. BATHYMETRIC DATA BY COASTAL SYSTEMS INTERNATIONAL, INC. DATED JUNE 22, 2017.

DEMOLITION NOTES:

- 1. CONTRACTOR SHALL VERIFY THE EXTENTS, LOCATION AND QUANTITIES OF EXISTING ELEMENTS TO BE REMOVED.
- 2. ALL DEBRIS WITHIN THE LIMITS OF THE PROJECT SHALL BE TRUCKED AND HAULED OFFSITE BY THE CONTRACTOR AND DISPOSED OF AT AN APPROVED SITE.
- 3. CONTRACTOR SHALL NOT DAMAGE ANY STRUCTURAL COMPONENTS BEYOND THE DEMOLITION REQUIREMENTS OF THESE DRAWINGS. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

LAYOUT AND TESTING:

- 1. ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY AND PAID FOR BY THE CONTRACTOR UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
- 2. ALL TESTING AND INSPECTION FOR CONCRETE AND PILE DRIVING MATERIALS AND PILE DRIVING SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, AND SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY PROVIDED BY THE OWNER.
- 3. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS IN SUFFICIENT DETAILS TO ILLUSTRATE THE HORIZONTAL AND VERTICAL COMPONENTS OF ABOVE AND BELOW GROUND STRUCTURES AND WALLS RELATIVE TO THE CONSTRUCTION BASELINE.

REINFORCING STEEL

WWF = A185

REINFORCEMENT SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS: DEFORMED BARS = A615 GR. 60WELDED DEFORMED BARS = A706

- 1. ALL TIMBER SHALL BE PRESSURE TREATED, SOUTHERN YELLOW PINE UNLESS OTHERWISE NOTED. PILES SHALL BE DRIVEN TO ACHIEVE A MINIMUM BEARING CAPACITY OF 10 KIPS WITH THE FOLLOWING PENETRATION
 - SOFT SOIL: 15 FEET LIME ROCK: 5 FEET
- 2. TIMBER PILES SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES. FB = 1.200 PSI (EXTREME FIBER BENDING MEMBER) FT = 500 PSI (TENSION PARALLEL TO GRAIN) FV = 90 PSI (HORIZONTAL SHEAR)E = 1.500,000 PSI (MODULUS OF ELASTICITY)
- 3. ALL TIMBER SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) FOR MARINE USE WITH MINIMUM RETENTION.
- 4. TREATMENT SHALL BE IN CONFORMANCE WITH THE STANDARDS OF AWPA C2 AND C18. CUT OR SAWED SURFACES IN PRESERVATIVE TREATED MEMBERS SHALL RECEIVE TWO COATS OF THE SAME PRESERVATION USED IN THE ORIGINAL TREATMENT.

CONCRETE NOTES:

- 1. ALL CONCRETE MATERIALS REINFORCEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATION 346, 400, AND 415 EXCEPT AS NOTED.
- 2. PROVIDE CHAMFERS ON ALL EXPOSED EDGES AND CORNERS EXCEPT AS OTHERWISE NOTED.
- 3. CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS INDICATED ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN WILL REQUIRE APPROVAL BY THE ENGINEER.
- 4. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING ARE TO CENTER LINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
- 5. NO CHAIRS OR OTHER METAL SHALL PROTRUDE FROM SURFACE OF CONCRETE.
- 6. MINIMUM CONCRETE COVER SHALL BE 3" TO OUTSIDE OF BAR.
- 7. ALL CAST-IN-PLACE CONCRETE TO BE A MINIMUM OF 5,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
- 8. PROVIDE AN FDOT-APPROVED MIX DESIGN FOR A CLASS IV CONCRETE FOR AN EXTREMELY AGGRESSIVE (MARINE) ENVIRONMENT. PROVIDE SUFFICIENT AMOUNT OF FLY ASH, MICROSILICA, OR SLAG TO THE CEMENT CONTENT TO INCREASE IMPERMEABILITY OF CONCRETE. W/C RATIO SHALL BE LESS THAN 0.40.
- 9. CURE PLACED CONCRETE IN ACCORDANCE WITH FDOT SPECIFICATION 400-16.1.
- 10. PROVIDE ADHESIVE BONDED DOWELS IN ACCORDANCE WITH FDOT SECTION 416.

CONCRETE REPAIR NOTES:

- REPAIR CONCRETE CAPS AS NEEDED.
- CONTRACTOR TO NOTIFY ENGINEER OF ADDITIONAL DAMAGE/REPAIR AREAS.
- REMOVE ALL UNSOUND CONCRETE AROUND DEMOLITION AREA BY CHIPPING WITH PICKS OR LIGHTWEIGHT PNEUMATIC IMPACT TOOLS TO EXPOSE SOUND CONCRETE FREE OF LOOSE AND UNSOUND MATERIALS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO SOUND CONCRETE BEYOND THE LIMITS OF THE DEMOLITION AND TO AVOID DISLODGING OR DAMAGING EXPOSED, EXISTING REINFORCING STEEL.
- SAW CUT EDGES OF REPAIR AREA TO A DEPTH OF AT LEAST 3/8" TO PROVIDE SQUARE EDGE.
- CLEAN ALL EXPOSED SURFACES, INCLUDING THE EXPOSED SURFACES OF THE REINFORCEMENT BY ABRASIVE BLASTING. SURFACES SHALL BE FREE OF ANY BOND INHIBITING OR OTHER DELETERIOUS MATERIALS.
- 6. APPLY THOROC HB2 REPAIR MORTAR, TWO-COMPONENT, POLYMER-MODIFIED. SHRINKAGE-COMPENSATED HIGH BUILD REPAIR MORTAR IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
- CURE REPAIR MATERIAL TO KEEP MOIST FOR 7 DAYS IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

PRESTRESSED CONCRETE PILING:

- PROVIDE AND INSTALL CONCRETE PILING IN ACCORDANCE WITN FDOT SPECIFICATION 455.
- 2. PILES SHALL BE MANUFACTURED IN ACCORDANCE WITH FDOT SPECIFICATIONS.
- CONCRETE SHALL BE FDOT CLASS IV (SPECIAL) FOR AN EXTREMELY AGGRESSIVE (MARINE) ENVIRONMENT. PROVIDE SUFFICIENT FLY ASH, MICROSILICA OR SLAG TO THE CEMENT CONTENT TO INCREASE IMPERMEABILITY OF CONCRETE.
- CONCRETE SHALL HAVE A MINIMUM OF 75% SPECIFIED COMPRESSIVE STRENGTH PRIOR TO DRIVING.
- ALL PILES SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATIONS INDICATED AND TO ACHIEVE THE BEARING CAPACITIES INDICATED. CONTRACTOR SHALL BE PREPARED TO PRE-PUNCH OR PRE-DRILL HOLES AS NECESSARY TO INSTALL PILING INTO LIMESTONE.

- CONTRACTOR TO INSTALL INDICATOR PILES AND CONDUCT TEST PILES AT LOCATIONS INDICATED IN THE S-SHEETS.
- PILE DRIVING, INCLUDING TEST PILES, SHALL BE INSPECTED BY AN INDEPENDENT GEOTECHNICAL ENGINEER HIRED BY THE CONTRACTOR.
- CONTRACTOR SHALL RETAIN SPECIALTY ENGINEER TO MONITOR VIBRATIONS AND SETTLEMENT DURING PILE DRIVING IN ACCORDANCE WITH FDOT SPECIFICATION 455-1.1.

HARDWARE NOTES:

- 1. ALL BOLTS AND HARDWARE SHALL BE 316 STAINLESS FOR MARINE APPLICATIONS UNLESS OTHERWISE NOTED.
- 2. ALL ALUMINUM LADDERS SHALL BE INTERNATIONAL DOCK PRODUCTS OR EQUIVALENT, 6 STEPS.
- 3. ALUMINUM WELDS SHALL UTILIZE FILLER TYPE 5356.
- 4. ALUMINUM ANGLE SHALL BE 6061-T6 ALLOY
- 5. ALL CLEATS SHALL BE MARITIME INTERNATIONAL OR SCHOELLHORN-ALBRECHT, SIZE 12, THROUGH 16 INCH. SEE STRUCTURAL PLANS FOR RESPECTIVE LOCATIONS AND QUANTITIES.
- 6. ALUMINUM RAMP SHALL BE 6063-T6 ALLOY OR APPROVED ALT. RAMP SURFACE SHALL BE RAISED "DIAMOND" PATTERN.

GRATING MATERIALS:

SHOP DRAWINGS:

1. FIBERGLASS DECKING MATERIAL AS INDICATED IN THE DECKING PLANS SHALL BE DURADER C 5000 W F (2") AS MANUFACTURED BY STRONGWELL OR APPROVED EQUAL.

REFER TO PLUMBING AND ELECTRICAL SHEETS.

NATURAL RESOURCES DIVISION DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

PILE DRIVING MEANS AND METHODS

SCHEDULE FOR COMPLETION OF WORK

WITH TASKS AND DURATIONS DEFINED

INCLUDING PILE HAMMER DATA

UTILITY PEDESTAL INFORMATION

SEP **2 4** 2018

9/24/18

PROVIDE SHOP DRAWINGS AND/OR CATALOG CUTS FOR THE FOLLOWING ITEMS FOR REVIEW

AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION: DEMOLITION METHODS AND DISPOSAL

- CONCRETE MIX DESIGN FOR
- CAST-IN-PLACE CONCRETE
- CURING COMPOUND
- REINFORCING STEEL
- EPOXY ANCHORING SYSTEM FOR **BOLTS CLEATS**

FORMWORK

TIMBER PILING

- NEOPRENE BEARING PAD FIBERGLASS GRATING
- PEDESTRIAN PROTECTION NATURAL RESOURCES DIVISION PRELIMINARY APPROVAL NAME Dame the /2

ON CENTER

PROPERTY LINE

OVERALL

ABBREVIATIONS APPROXIMATE

MEAN HIGH WATER . ALUMINUM MHW_ MHHW_ _MEAN HIGHER HIGH WATER MEAN LOW WATER BUILT _ BEAM BEARING CUBIC YARD PROFESSIONAL ENGINEER _CENTER LINE _CLEAN OUT POUNDS PER SQUARE FOOT _CONCRETE ___ POUNDS PER SQUARE INCH CONTINUOUS _DIAMETER - SLAB ON GRADE EACH WAY STAINLESS STEEL _EACH $_{
m EACH}$ END ELEVATION ------THICKENED EDGE EACH FACE EXPANSION JOINT

EXISTING

GALVANIZED

MID-DEPTH

MAXIMUM

SECTION DETAIL LABEL

-LETTER NUMBER -**INDICATES** INDICATES SECTION DETAIL SHEET NUMBER WHERE DETAIL OR SECTION IS DRAWN

DATUM DIAGRAM NAVD88 ____ MLW NOOA STA. ID 8723165

ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (22"x34")

-UNLESS OTHERWISE NOTED

_WELDED WIRE FABRIC

MIAMARINA PIER 5 **IMPROVEMENTS** CITY OF MIAMI, **FLORIDA**

PERMIT PLANS



COASTAL SYSTEMS INTERNATIONAL INC 464 South Dixie Highway Coral Gables, Florida 33146

Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsInt.com State of Florida EB #7087 Coastal, Environmental, Civil Engineering and Management

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consulting engineers
Mechanical/Electrical Reg. # CA0006722
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	Suite 22 Miami L	akes, Florida	33016	Fax	(305) (305)	698-398
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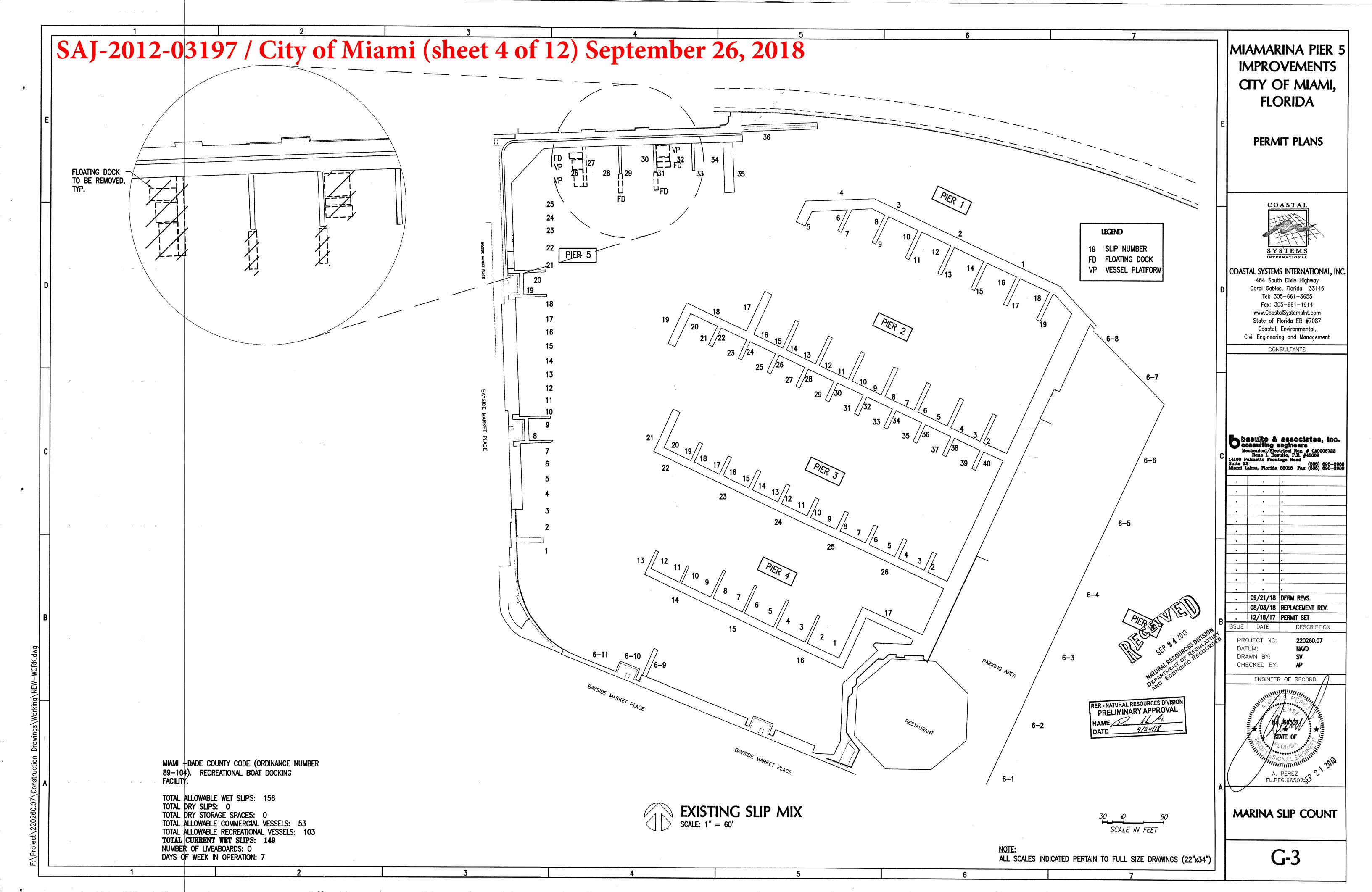
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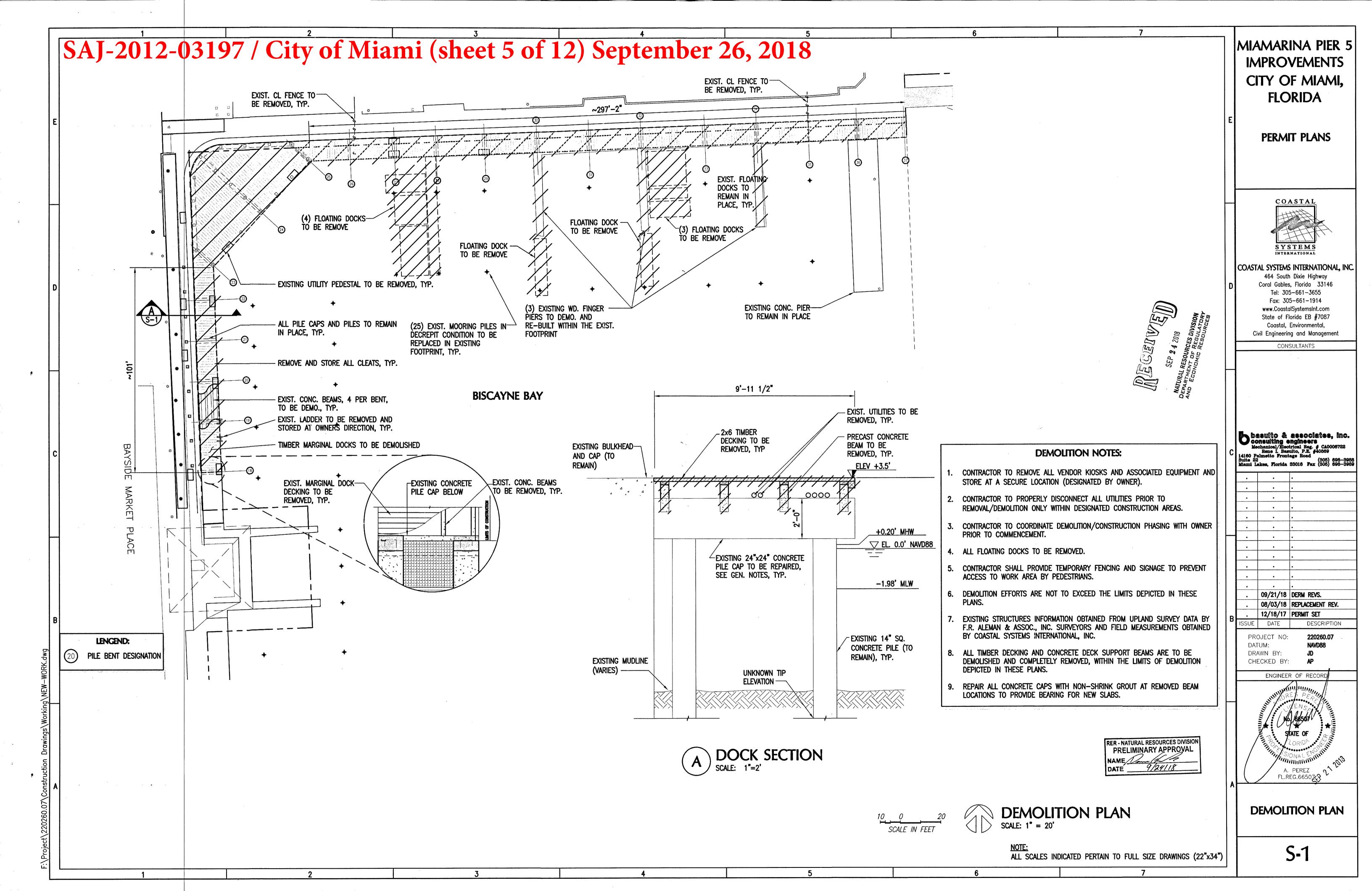
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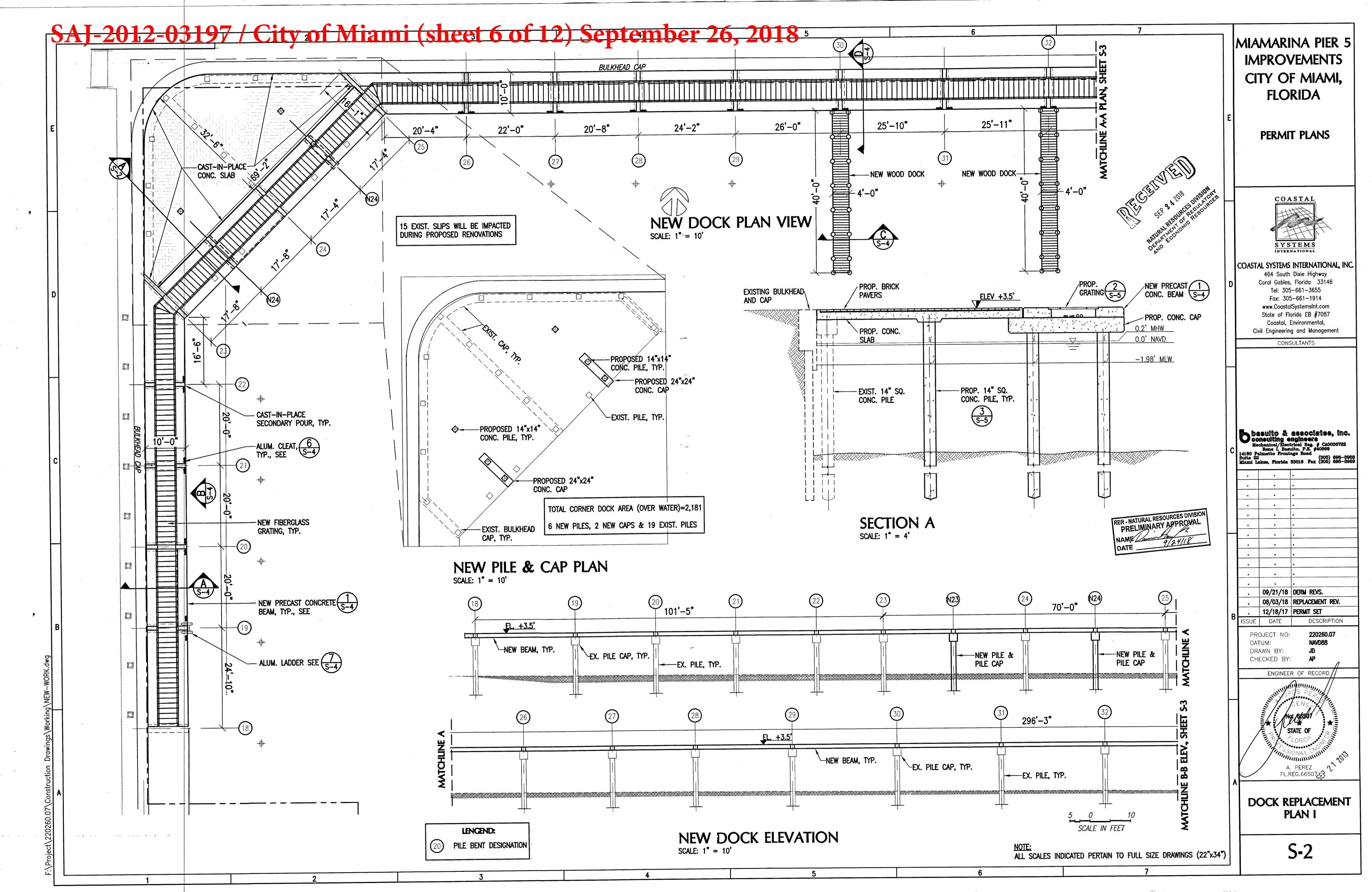
ENGINEER OF RECORD A. PEREZ FL.REG.66507 SEP 21 2018

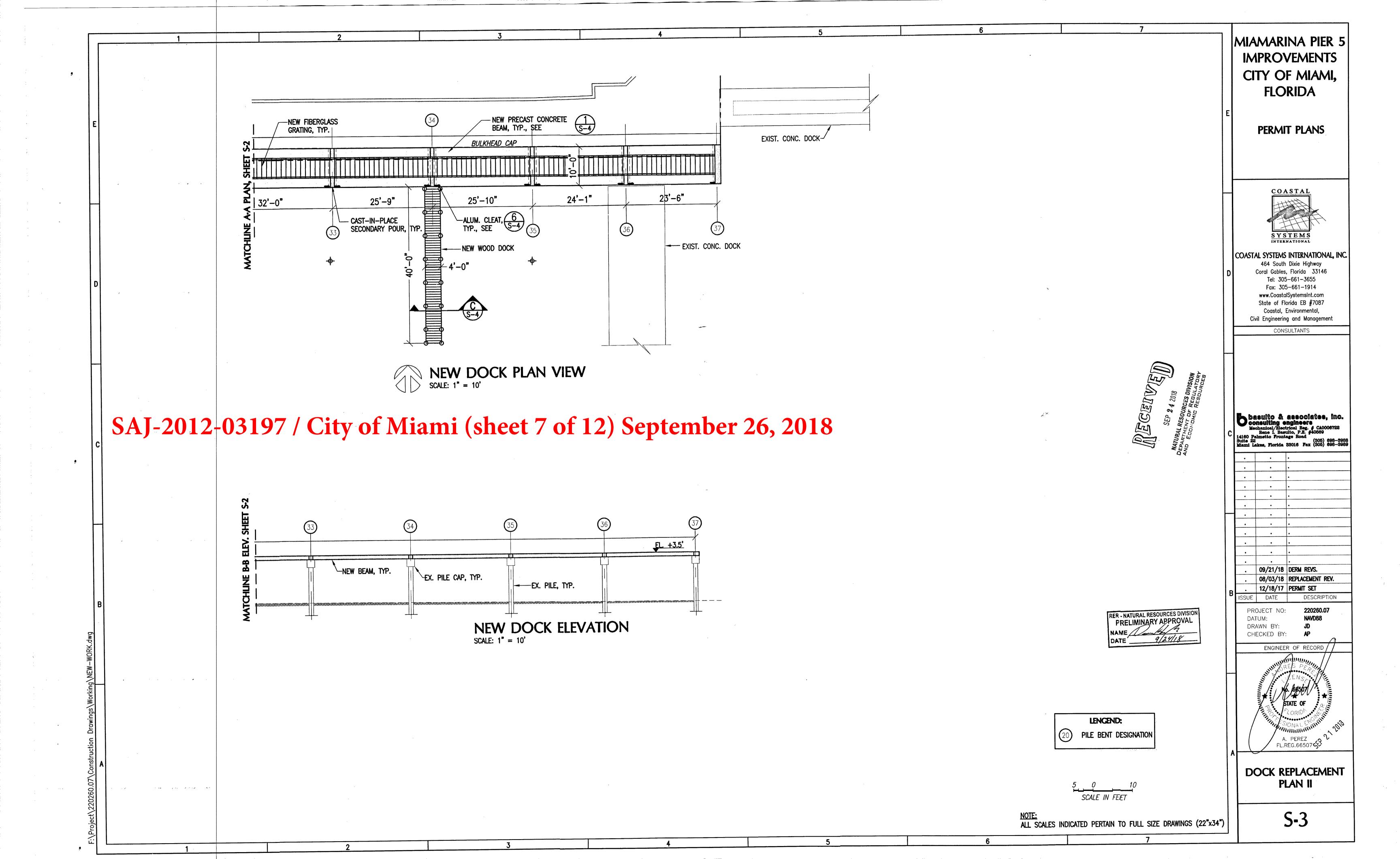
GENERAL NOTES

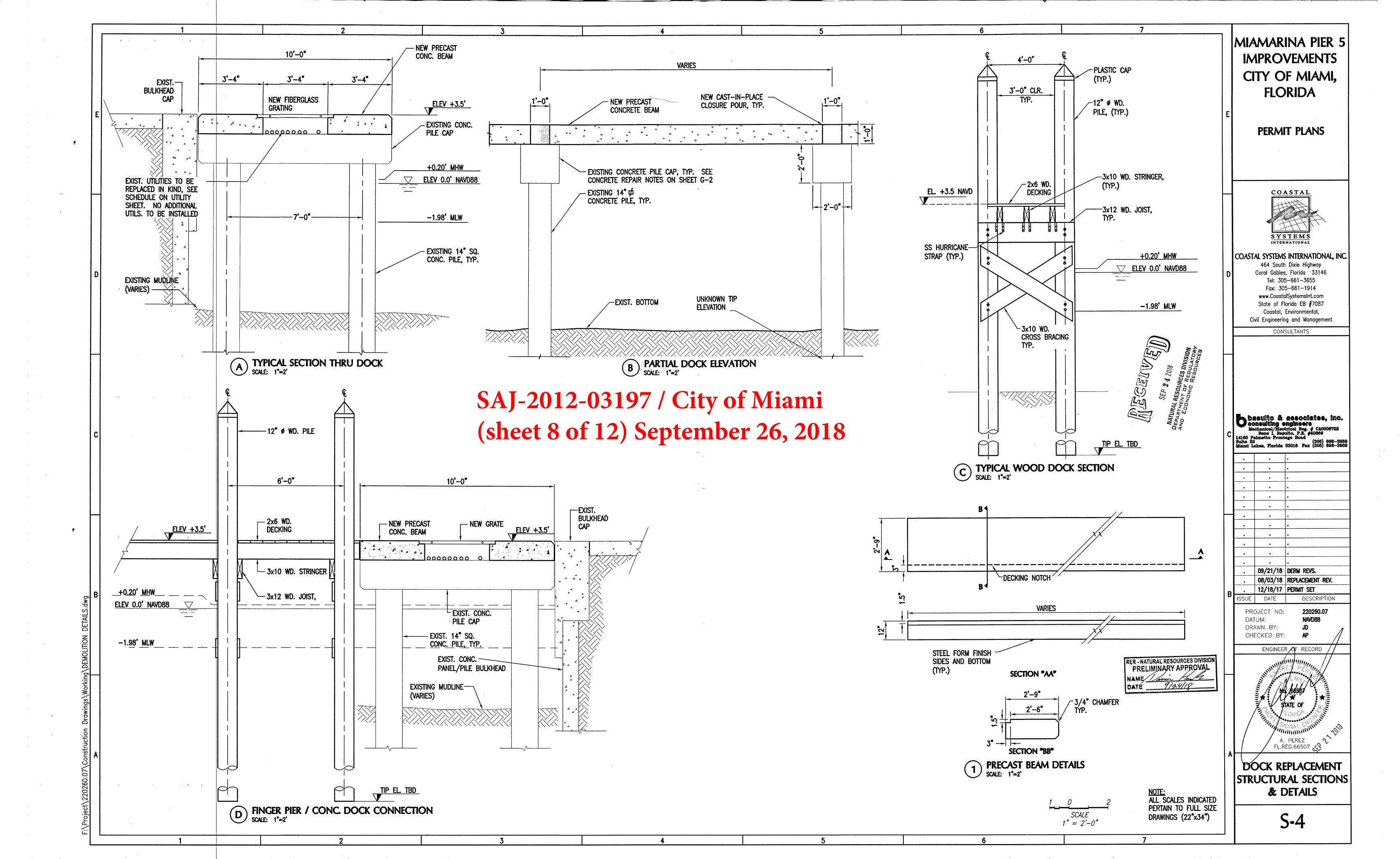
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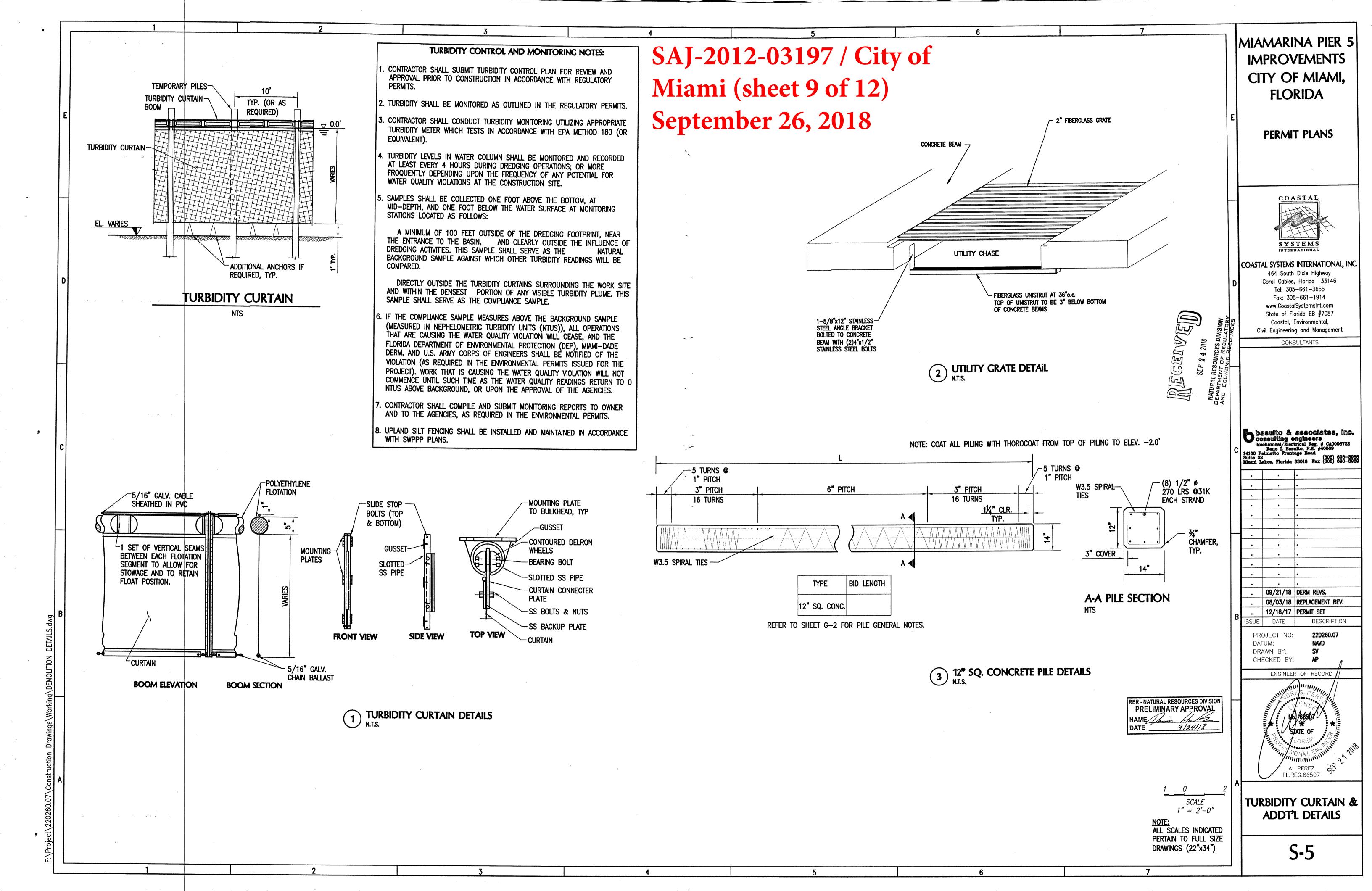


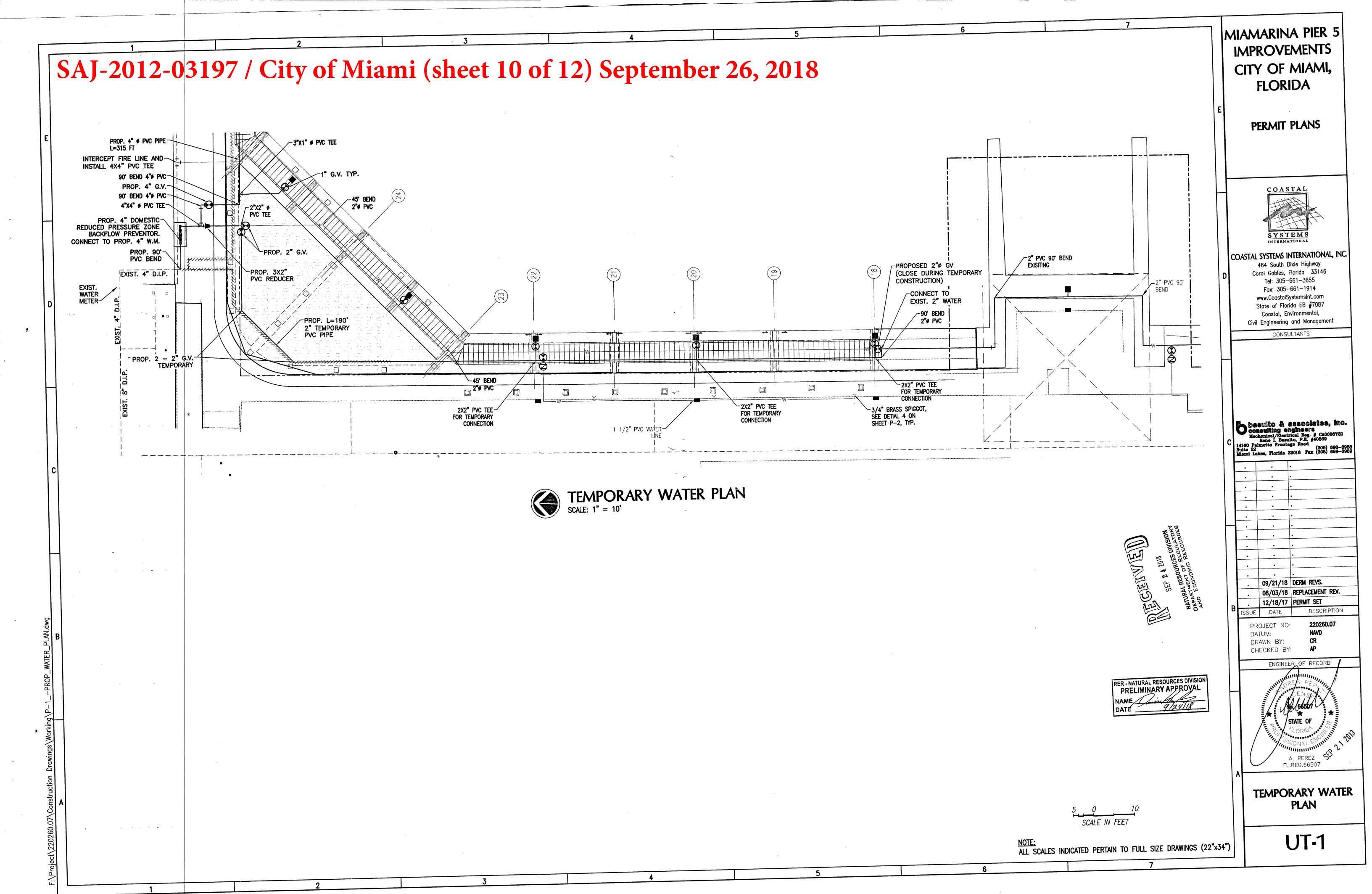


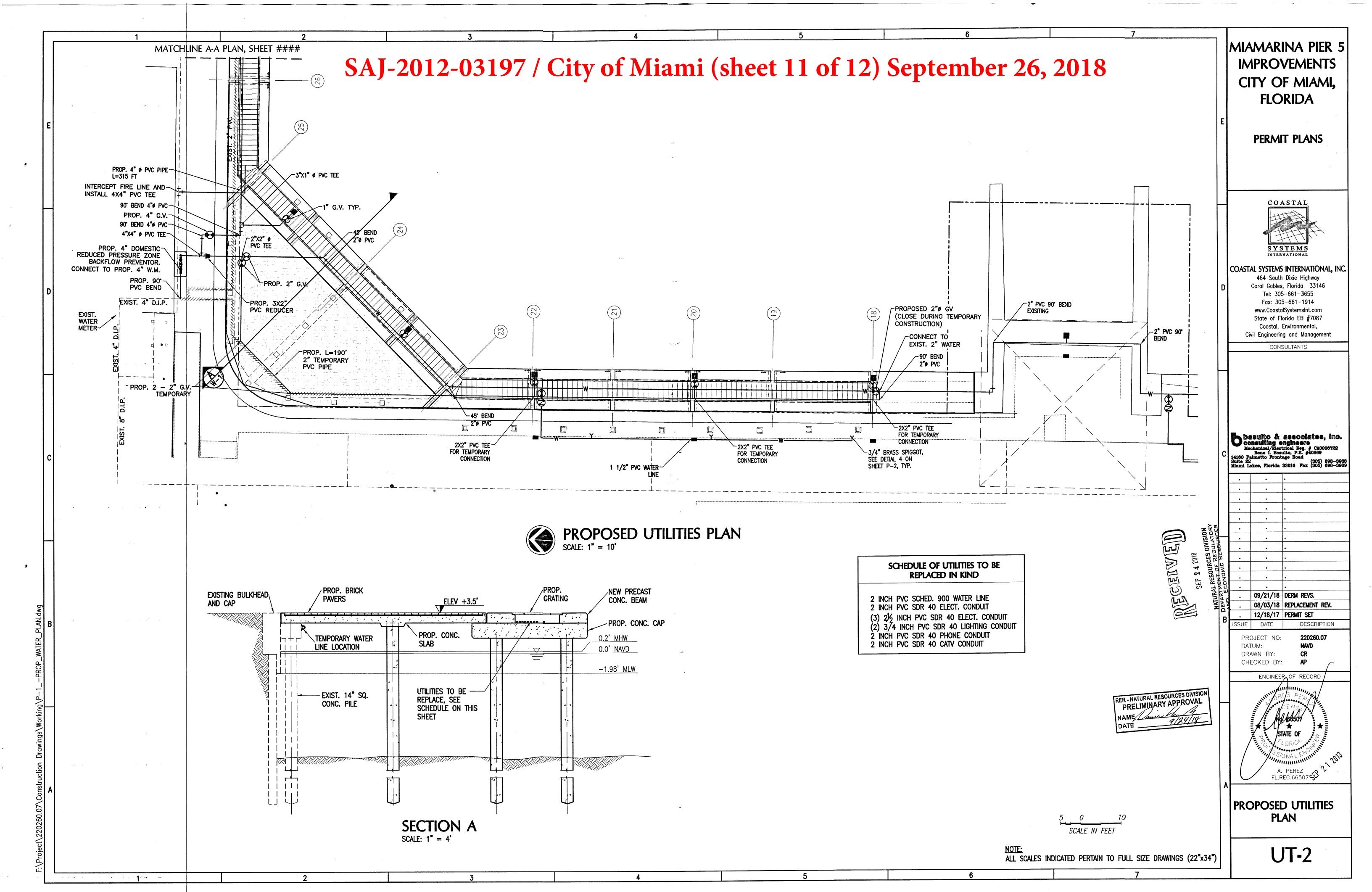


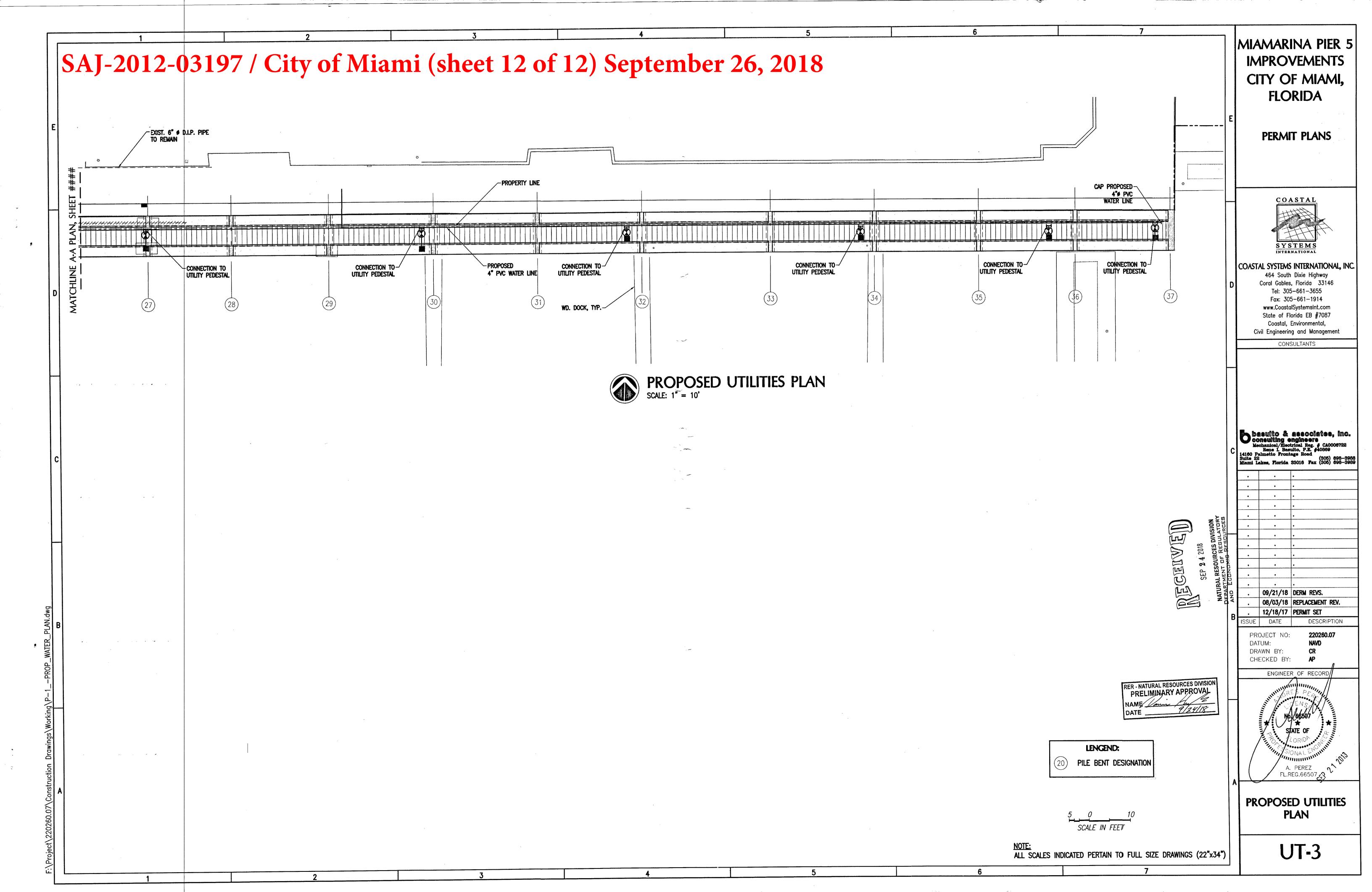












STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at lmperiledSpecies@myFWC.com
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½ by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:

Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC





UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL MARINE FISHERIES SERVICE

Southeast Regional Office 263 13th Avenue South St. Petersburg, FL 33701

SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

The permittee shall comply with the following protected species construction conditions:

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

Revised: March 23, 2006

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U.S. Army Corps of Engineers Jacksonville District's Programmatic Biological Opinion (JaxBO) Project Design Criteria (PDCs) for In-Water Activities

November 20, 2017

- 1) (AP.7.) Education and Observation: The permittee must ensure that all personnel associated with the project are instructed about the potential presence of species protected under the ESA and the Marine Mammal Protection Act (MMPA). All on-site project personnel are responsible for observing water-related activities for the presence of protected species. All personnel shall be advised that there are civil and criminal penalties for harming, harassing, or killing ESA-listed species or marine mammals. To determine which species may be found in the project area, please review the relevant Protected Species List at: http://sero.nmfs.noaa.gov/protected-resources/section-7/threatened-endangered/index.html
- 2) (AP.8.) Reporting of interactions with protected species:
 - a) Any collision(s) with and/or injury to any sea turtle, sawfish, whale, or sturgeon occurring during the construction of a project, shall be reported immediately to NMFS's Protected Resources Division (PRD) at (1-727-824-5312) or by email to takereport.nmfsser@noaa.gov and SAJ-RD-Enforcement@usace.army.mil.
 - b) Smalltooth sawfish: Report sightings to 1-844-SAWFISH or email Sawfish@MyFWC.com
 - c) Sturgeon: Report dead sturgeon to 1-844-STURG 911 (1-844-788-7491) or email nmfs.ser.sturgeonnetwork@noaa.gov
 - d) Sea turtles and marine mammals: Report stranded, injured, or dead animals to 1-877-WHALE HELP (1-877-942-5343).
 - e) North Atlantic right whale: Report injured, dead, or entangled right whales to the USCG via VHF Channel 16.
- 3) (AP.9.) Vessel Traffic and Construction Equipment: All vessel operators must watch for and avoid collision with species protected under the ESA and MMPA. Vessel operators must avoid potential interactions with protected species and operate in accordance with the following protective measures:
 - a) Construction Equipment.
 - i) All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while operating in water depths where the draft of the vessel provides less than a 4-foot (ft) clearance from the bottom, and in all depths after a protected species has been observed in and has departed the area.
 - ii) All vessels will follow marked channels and/or routes using the maximum water depth whenever possible.
 - iii) Operation of any mechanical construction equipment, including vessels, shall cease immediately if a listed species is observed within a 50-ft radius of

- construction equipment and shall not resume until the species has departed the area of its own volition.
- iv) If the detection of species is not possible during certain weather conditions (e.g., fog, rain, wind), then in-water operations will cease until weather conditions improve and detection is again feasible.

b) All Vessels:

- i) Sea turtles: Maintain a minimum distance of 150 ft.
- ii) North Atlantic right whale: Maintain a minimum 1,500-ft distance (500 yards).
- iii) Vessels 65 ft in length or longer must comply with the Right Whale Ship Strike Reduction Rule (50 CFR 224.105) which includes reducing speeds to 10 knots or less in Seasonal Management Areas (http://www.fisheries.noaa.gov/pr/shipstrike/).
- iv) Mariners shall check various communication media for general information regarding avoiding ship strikes and specific information regarding right whale sightings in the area. These include NOAA weather radio, USCG NAVTEX broadcasts, and Notices to Mariners.
- v) Marine mammals (i.e., dolphins, whales [other than North Atlantic right whales], and porpoises): Maintain a minimum distance of 300 ft.
- vi) When these animals are sighted while the vessel is underway (e.g., bowriding), attempt to remain parallel to the animal's course. Avoid excessive speed or abrupt changes in direction until they have left the area.
- vii) Reduce speed to 10 knots or less when mother/calf pairs or groups of marine mammals are observed, when safety permits.
- 4) (AP.10.) Turbidity Control Measures during Construction: Turbidity must be monitored and controlled. Prior to initiating any of the work covered under this Opinion, the Permittee shall install turbidity curtains as described below. In some instances, the use of turbidity curtains may be waived by the USACE project manager if the project is deemed too minimal to generate turbidity (e.g., certain ATON installation, scientific survey device placement, marine debris removal) or if the current is too strong for the curtains to stay in place. Turbidity curtains specifications:
 - a) Install floating turbidity barriers with weighted skirts that extend to within 1 ft of the bottom around all work areas that are in, or adjacent to, surface waters.
 - b) Use these turbidity barriers throughout construction to control erosion and siltation and ensure that turbidity levels within the project area do not exceed background conditions.
 - c) Position turbidity barriers in a way that does not block species' entry to or exit from designated critical habitat.
 - d) Monitor and maintain turbidity barriers in place until the authorized work has been completed and the water quality in the project area has returned to background conditions.
 - e) In the range of ESA-listed corals (St. Lucie Inlet, Martin County south to the Dry Tortugas and the U.S. Caribbean) and Johnson's seagrass (Turkey Creek/Palm

Bay south to central Biscayne Bay in the lagoon systems on the east coast of Florida):

- Projects that include upland earth moving (e.g., grading to install a building or parking lot associated with a dock and seawall project), must install sediment control barriers to prevent any upland sediments from reaching estuarine or marine waters.
- ii) The turbidity curtain requirement cannot be waived for any project that moves or removes sediment (e.g., dredging, auger to create a pile, trenching to install a cableline). If turbidity curtains are not feasible in an area based on site conditions such as water current, high wave action, or stormy conditions, the project must undergo individual Section 7 consultation and is not covered under this Programmatic Opinion.
- 5) **(AP.11.) Entanglement:** All turbidity curtains and other in-water equipment must be properly secured with materials that reduce the risk of entanglement of marine species (described below). Turbidity curtains likewise must be made of materials that reduce the risk of entanglement of marine species.
 - a) In-water lines (rope, chain, and cable, including the lines to secure turbidity curtains) must be stiff, taut, and non-looping. Examples of such lines are heavy metal chains or heavy cables that do not readily loop and tangle. Flexible inwater lines, such as nylon rope or any lines that could loop or tangle, must be enclosed in a plastic or rubber sleeve/tube to add rigidity and prevent the line from looping and tangling. In all instances, no excess line is allowed in the water.
 - b) Turbidity curtains and other in-water equipment must be placed in a manner that does not entrap species within the construction area or block access for them to navigate around the construction area.