

FLORIDA DEPARTMENT OF Environmental Protection

Southeast District 3301 Gun Club Road, MSC7210-1 West Palm Beach, FL 33406 561-681-6600 Rick Scott Governor Carlos Lopez-Cantera Lt. Governor Noah Valenstein Secretary

September 6, 2018

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

Sent via e-mail: mreising@coastalsystemsint.com

Re: File No.: 13-045407-009-EE

File Name: Miamarina Dock Improvements

Dear Mr. Rotenberg:

On August 17, 2018, we received your application for an exemption to replace the existing 6,250 sq. ft. dock in the same location and of the same configuration and dimensions as the existing dock. The project is located in a basin, within the Biscayne Bay Aquatic Preserve, Outstanding Florida Waters, Class III Waters, adjacent to 401 Biscayne Blvd, Miami (Section 6, Township 54 South, Range 42 East), in Miami-Dade County (Latitude N 25° 46' 43.86", Longitude W 80° 11' 10.38").

Your request has been reviewed to determine whether it qualifies for (1) regulatory exemption, (2) proprietary authorization (related to state-owned submerged lands), and (3) federal approval that may be necessary for work in wetlands or waters of the United States.

Your project did not qualify for the federal review portion of this verification request. **Additional authorization must be obtained prior to commencement of the proposed activity**. This letter does not relieve you from the responsibility of obtaining other federal, state, or local authorizations that may be required for the activity. Please refer to the specific section(s) dealing with that portion of the review below for advice on how to proceed.

1. Regulatory Review – VERIFIED

Based on the information submitted, the Department has verified that the activity as proposed is exempt under Chapter 62-330.051(5)(d), Florida Administrative Code, from the need to obtain a regulatory permit under part IV of Chapter 373 of the Florida Statutes.

This exemption verification is based on the information you provided the Department and the statutes and rules in effect when the information was submitted. This verification will expire after one year, and will not be valid at any other time if site conditions materially change, the project design is modified, or the statutes or rules governing the exempt activity are amended. However,

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the activity may still be conducted without further notification to or verification from the Department after the one-year expiration of this verification, provided: 1) the project design does not change; 2) site conditions do not materially change; and 3) there are no changes to the statutes or rules governing the exempt activity. In the event you need to re-verify the exempt status for the activity after the one-year expiration of this verification, a new application and verification fee will be required. Any substantial modifications to the project design should be submitted to the Department for review, as changes may result in a permit being required. Conditions of compliance with the regulatory exemption are contained in Attachment A.

2. Proprietary Review –NOT REQUIRED

The activity does not appear to be located on sovereign submerged lands, and does not require further authorization under chapter 253 of the Florida Statutes, or chapters 18-20 or 18-21 of the Florida Administrative Code.

3. Federal Review – SPGP NOT APPROVED

Your proposed activity as outlined on your application and attached drawings does not qualify for Federal authorization pursuant to the State Programmatic General Permit and a SEPARATE permit or authorization shall be required from the Corps. You must apply separately to the Corps using the appropriate federal application form (ENG 4345). More information about Corps permitting may be found online in the Jacksonville District Regulatory Division Sourcebook.

Authority for review - an agreement with the USACOE entitled "Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection, or Duly Authorized Designee, State Programmatic General Permit", Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Additional Information

Please retain this letter. The activities may be inspected by authorized state personnel in the future to insure compliance with appropriate statutes and administrative codes. If the activities are not in compliance, you may be subject to penalties under Chapter 373, F.S., and Chapter 18-14, F.A.C.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rule 28-106.201, F.A.C., a petition for an administrative hearing must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

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- (b) The name, address, any email address, any facsimile number, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate:
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

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Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when the order is filed with the Clerk of the Department.

Judicial Review

Any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this action is filed with the Clerk of the Department.

Thank you for applying to the Submerged Lands and Environmental Resource Permit Program. If you have any questions regarding this matter, please contact Portia Caldwell at (561) 681-6630 or by email at Portia.R.Caldwell@dep.state.fl.us

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Portia Caldwell

Portia Caldwell Environmental Specialist II Southeast District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

FDEP – Monica Sovacool, Portia Caldwell Lisa Spadafina, Miami-Dade County RER, <u>spadaL2@miamidade.gov</u>

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

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Clerk

Enclosures:

Attachment A- Specific Exemption Rule

Project Drawings, 12 pages

Attachment A

Chapter 62-330.051 Exempt Activities.

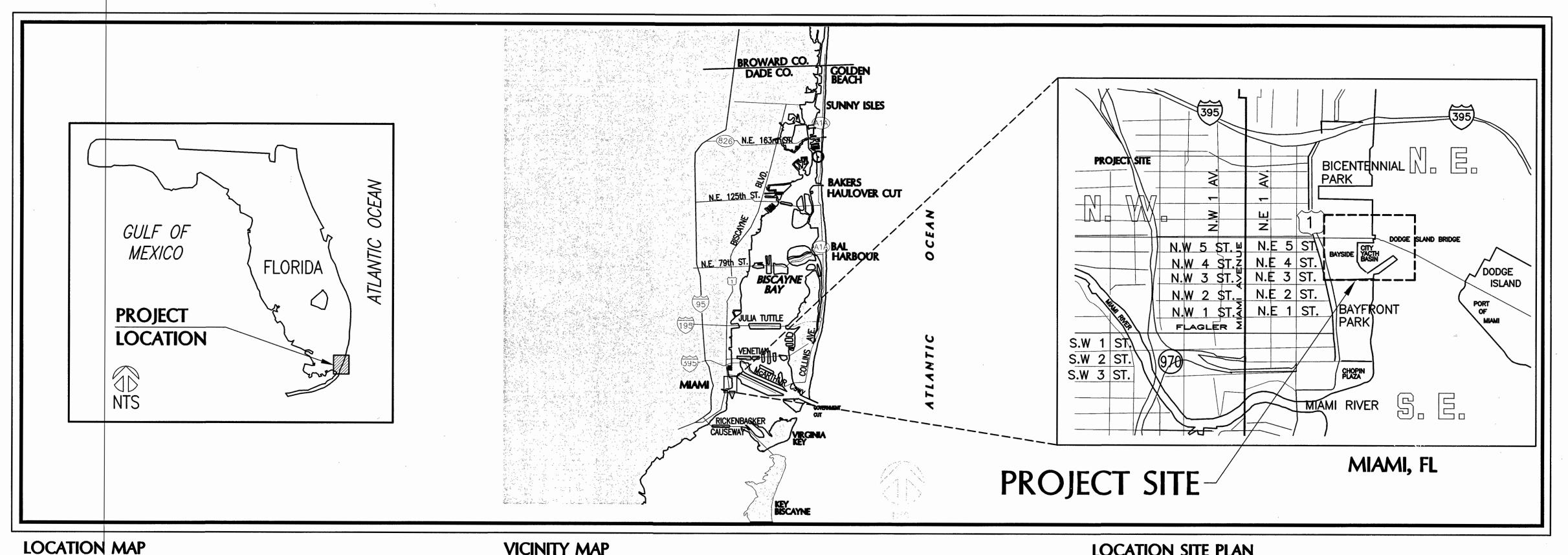
The activities meeting the limitations and restrictions below are exempt from permitting. However, if located in, on, or over state-owned submerged lands, they are subject to a separate authorization under Chapters 253 and 258, F.S., and Chapters 18-18, 18-20, and 18-21, F.A.C., as applicable.

- (5) Dock, Pier, Boat Ramp and Other Boating-related Work –
- (d) Replacement or repair of existing docks and piers, including mooring piles, in accordance with Section 403.813(1)(d), F.S., provided the existing structure is still functional or has been rendered non-functional within the last year by a discrete event, such as a storm, flood, accident, or fire.



MIAMARINA PIER 5 IMPROVEMENTS CITY OF MIAMI, FLORIDA

Daniel Rotenberg - Director



COMMISSION

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

VICINITY MAP

CIVIL ENGINEERS

LOCATION SITE PLAN

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

COASTAL
SYSTEMS
INTERNATIONAL

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

ELECTRICAL ENGINEER

Sheet langue	Sheet Hue	
G-1	COVER	
G-2	GENERAL NOTES	
•	SURVEY	
S-1	DEMOLITION PLAN	
S-2	DOCK REPLACEMENT PLAN I	
S-3	DOCK REPLACEMENT PLAN II	OF ENT
S-4	DOCK REPLACEMENT STRUCTURAL SECTIONS & DETAILS	OF ENVIRON
S-5	TURBIDITY CURTAIN DETAILS	
UT-1	TEMPORARY WATER PLAN	
UT-2	PROPOSED WATER PLAN I	Permit Number
UT-3	PROPOSED WATER PLAN II	 45407-009-EE
UT-4	UTILITIES DETAILS 13	143407-009-EE

Sheet List Table

Southeast District

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

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

PERMIT PLANS



COASTAL SYSTEMS INTERNATIONAL, INC

464 South Dixie Highway Coral Gables, Florida 33146 www.CoastalSystemsInt.com State of Florida EB #7087

CONSULTANTS

08/03/18 REPLACEMENT REV.

12/18/17 | PERMIT SET

PROJECT NO: 220260.07 DRAWN BY: CHECKED BY:

A. PEREZ AUG 0 3 2018 | FL.REG.66507

COVER

G-1

- 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.
- 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.
- 10. 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

REINFORCEMENT SHALL CONFORM TO THE FOLLOWING **ASTM STANDARDS:** DEFORMED BARS = A615 GR. 60WELDED DEFORMED BARS = A706 WWF = A185

TIMBER NOTES:

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 CRITERIA:

SOFT SOIL: 15 FEET LIME ROCK: 5 FEET

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.
- 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.
- 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:

- 1. 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:

FIBERGLASS DECKING MATERIAL AS INDICATED IN THE DECKING PLANS SHALL BE DURADEK T-5000 (2") AS MANUFACTURED BY STRONGWELL OR APPROVED EQUAL.

UTILITIES

REFER TO PLUMBING AND ELECTRICAL SHEETS.

SHOP DRAWINGS:

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

REINFORCING STEEL

- CURING COMPOUND
- - NEOPRENE BEARING PAD FIBERGLASS GRATING

BOLTS

FORMWORK

TIMBER PILING

PEDESTRIAN PROTECTION PLAN

PILE DRIVING MEANS AND METHODS

SCHEDULE FOR COMPLETION OF WORK

WITH TASKS AND DURATIONS DEFINED

INCLUDING PILE HAMMER DATA

UTILITY PEDESTAL INFORMATION

EPOXY ANCHORING SYSTEM FOR

ABBREVIATIONS

ADDDOV	ADDDOVINATE	1401		A 41A 11A 41 1A 4	
	APPROXIMATE			MINIMUM	
	ALUMINUM			AN HIGH WATER	
	ВОТТОМ			ER HIGH WATER	
BLT	BUILT	MLW	M	EAN LOW WATER	
BM	BEAM			NORTH	
BRG	BEARING			——ON CENTER —— OVERALL	
C.Y	CUBIC YARD				
CL/@	CENTER LINE			onal Engineer Property line	,
	CLEAN OUT	-		R SQUARE FOOT	
	CONCRETE			R SQUARE INCH	
	CONTINUOUS			SLOPE	
DIA./ø	DIAMETER			SLAB ON GRADE	
EW	EACH WAY			TAINLESS STEEL	
EA	EACH			STEEL	
EE	EACH END			STATION	
ELEV.	ELEVATION	TE		HICKENED EDGE	
	EACH FACE	Ι		TOP	
	EXPANSION JOINT	TVPN		TYPICAL THERWISE NOTED ED WIRE FABRIC DATUM DIAGRAM MHW	,e
	EXISTING	UNO.	UNLESS 01	THERWISE NOTED	
GALV. ———	GALVANIZED	WWF.	WFI D	FD WIRE FABRIC	
M	MID-DEPTH		13		
MAX	MAXIMUM		Z	DATUM DIAGRAM	
	Downit N	umbau	\ -3\	MHW	
SECTION	DETAIL LABEL Permit N	umber	\ <u>~</u>		
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NUMBER	150645407	'-009-E	E 🚚		
INDICATES	SECTION		— / ×/	o o	
DETAIL		District	/ 0/	1.98,	
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	OR SECTION IS DI	RAWN		MLW	
	0,3		3/	REF: NOOA STA. ID 8723165	•
			0113	N.T.S.	•
	OR SECTION IS DI	L S			
	NOTE: ALL S	CALES INDICA	TED PERTAIN TO	FULL SIZE DRAWINGS (22"x3	34 ")

IMIAMARINA 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

CONSULTANTS

Civil Engineering and Management

basulto & associates, inc.

22 (305) 698-3984 i Lakes, Florida 33016 Fax (305) 698-3984

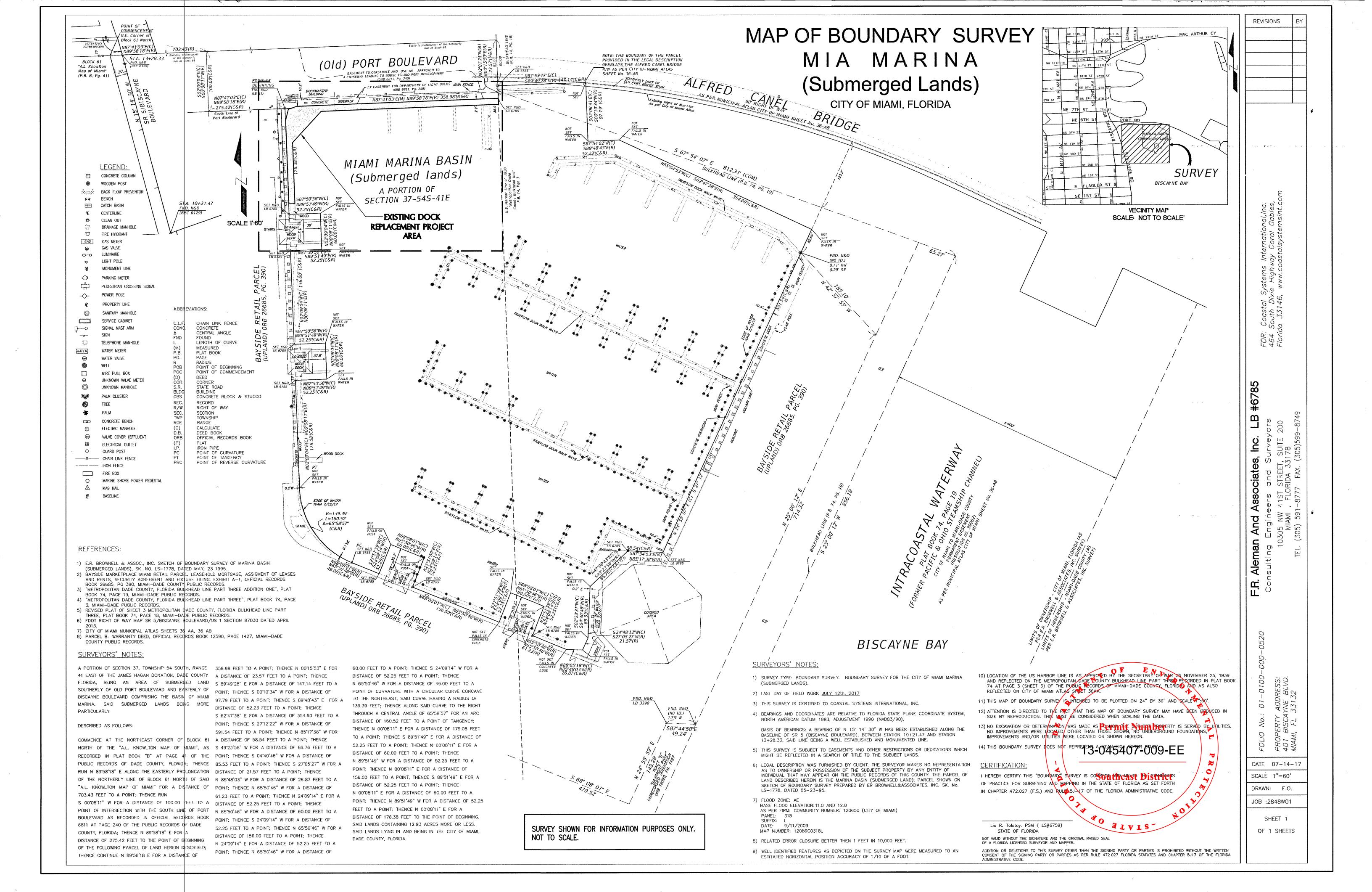
08/03/18 REPLACEMENT REV. 12/18/17 | PERMIT SET DESCRIPTION PROJECT NO: 220260.07 DATUM: NAVD88 DRAWN BY:

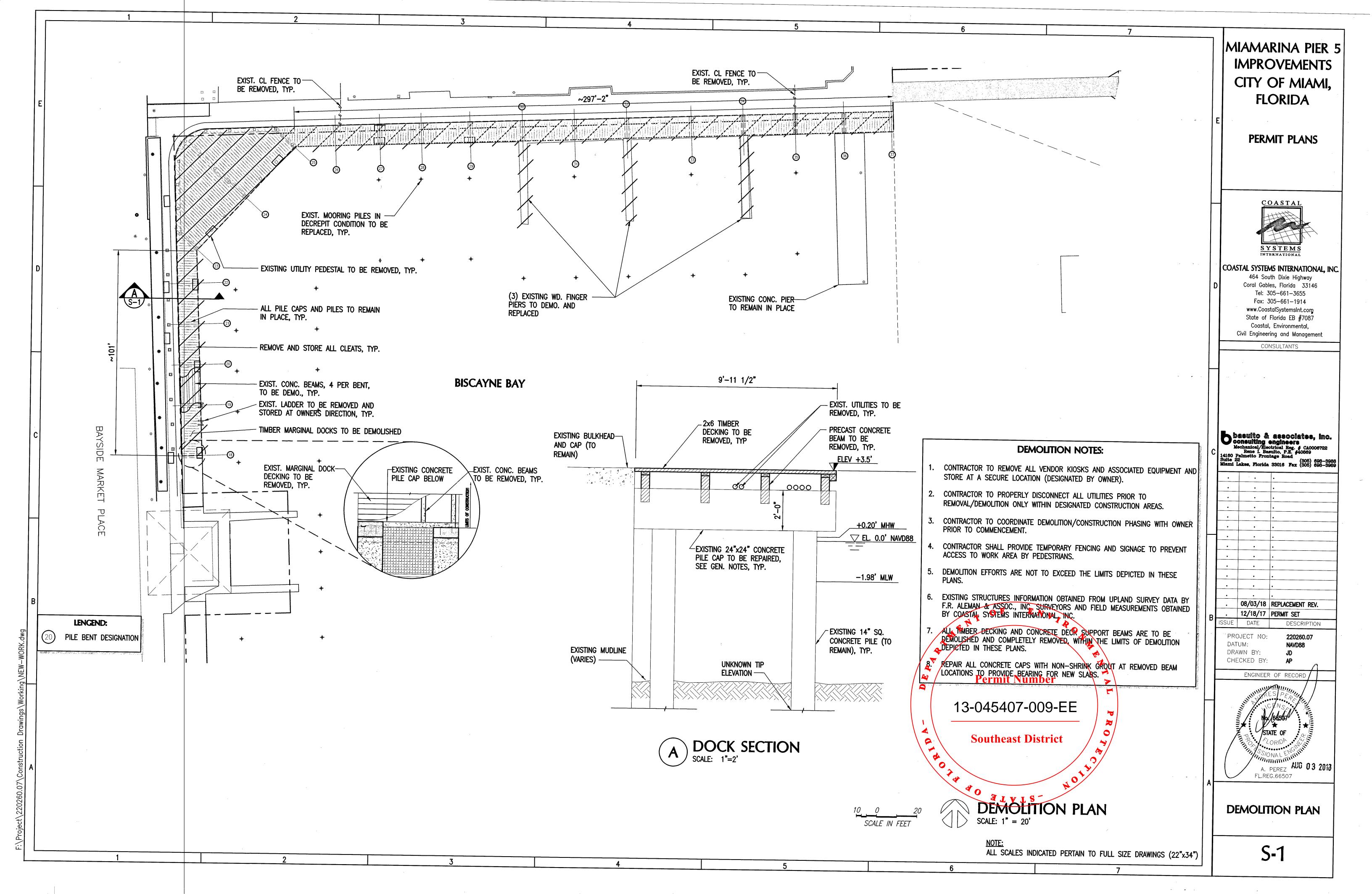
CHECKED BY: ENGINEER OF RECORD

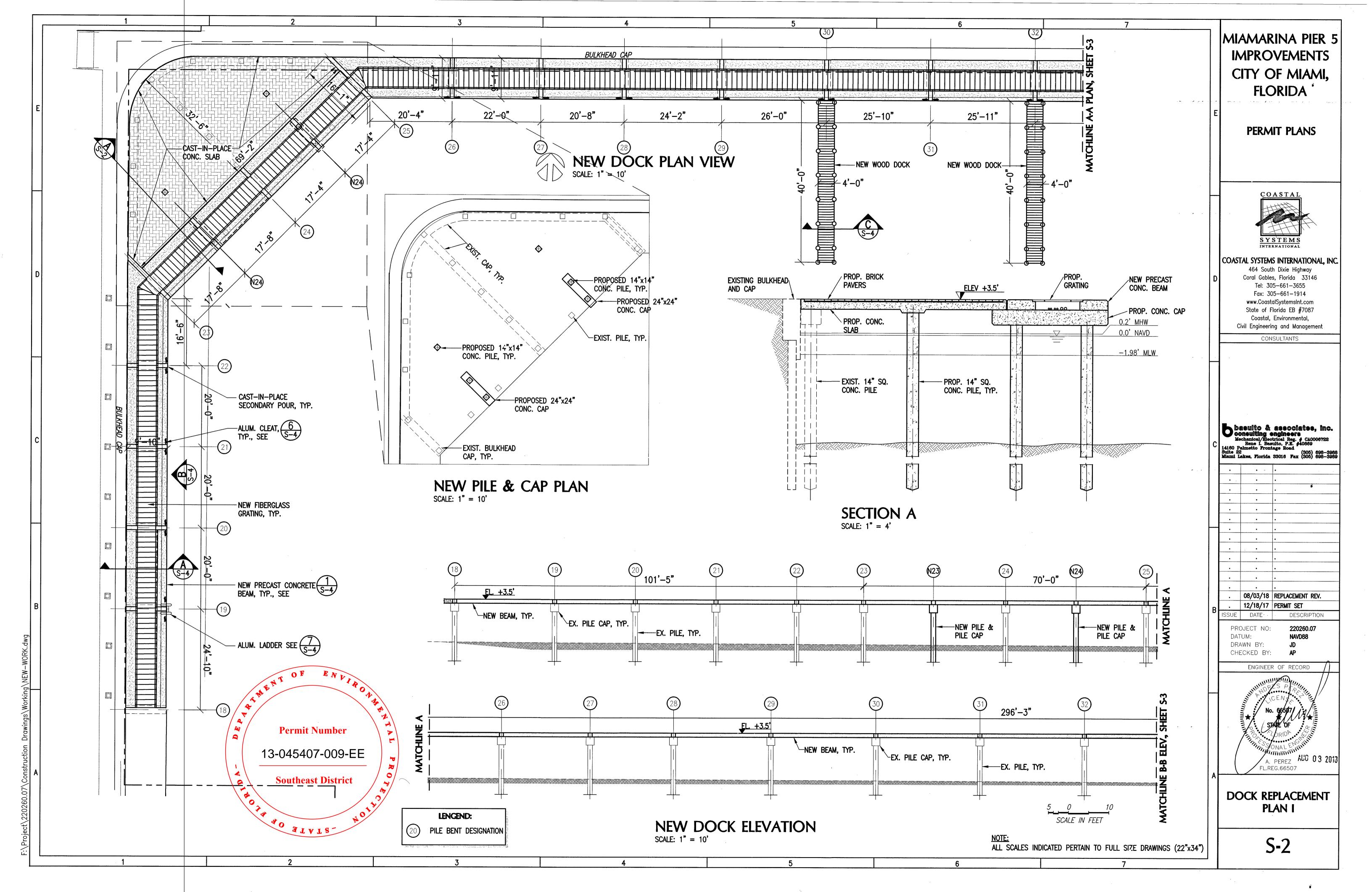
* STATE OF A. PEREZ AUG 0 3 2018 FL.REG.66507

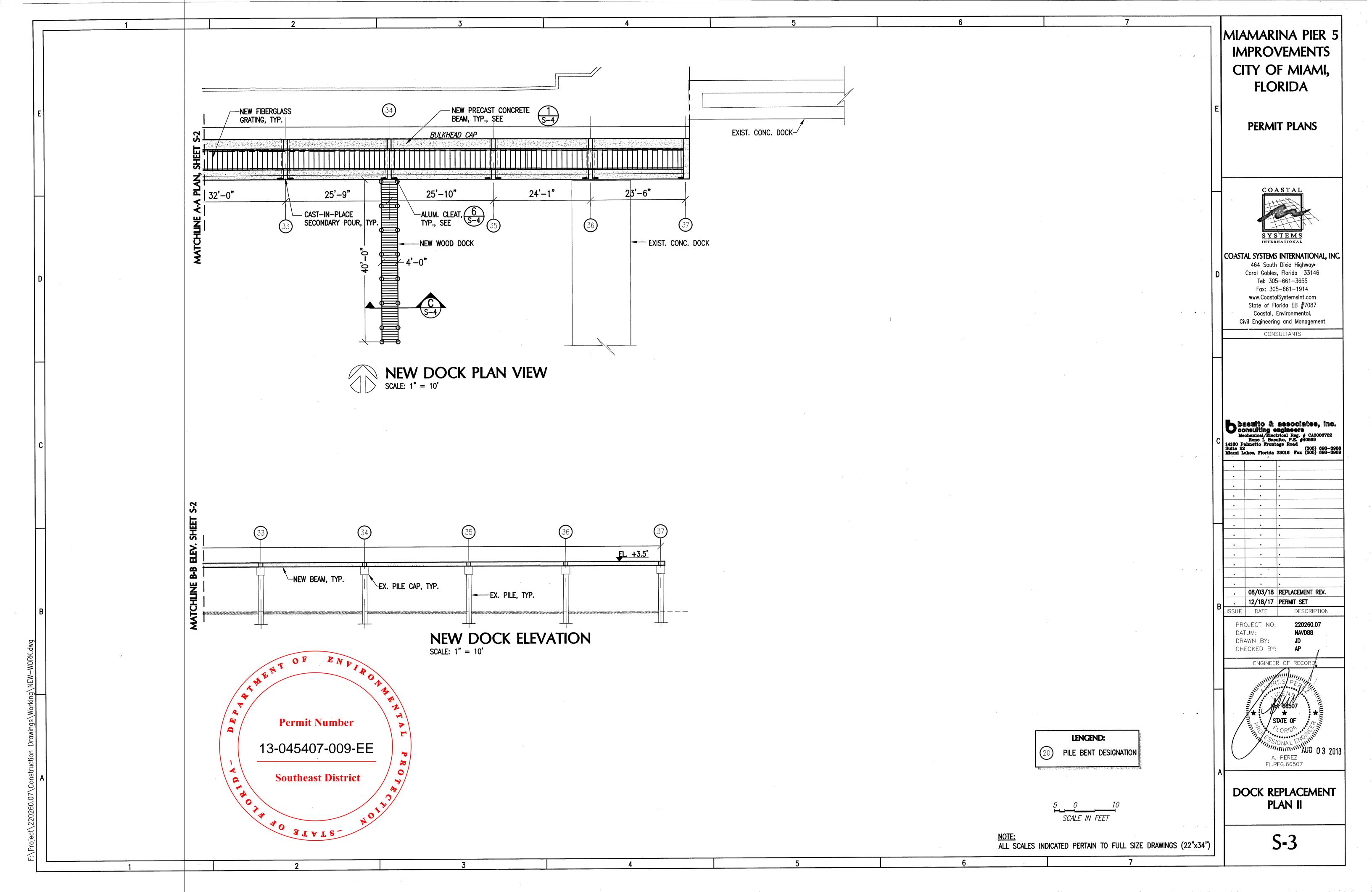
GENERAL NOTES

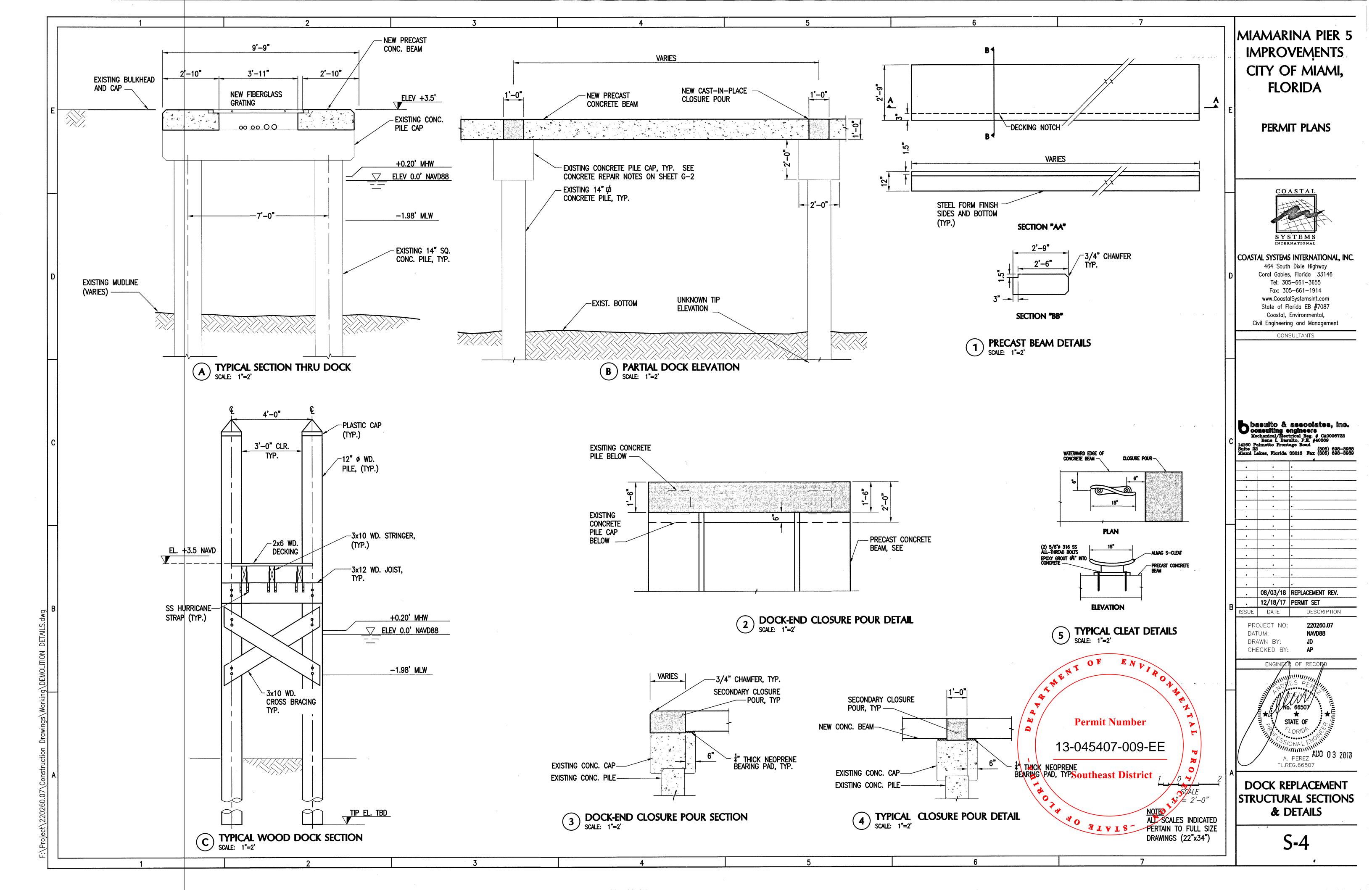
G-2

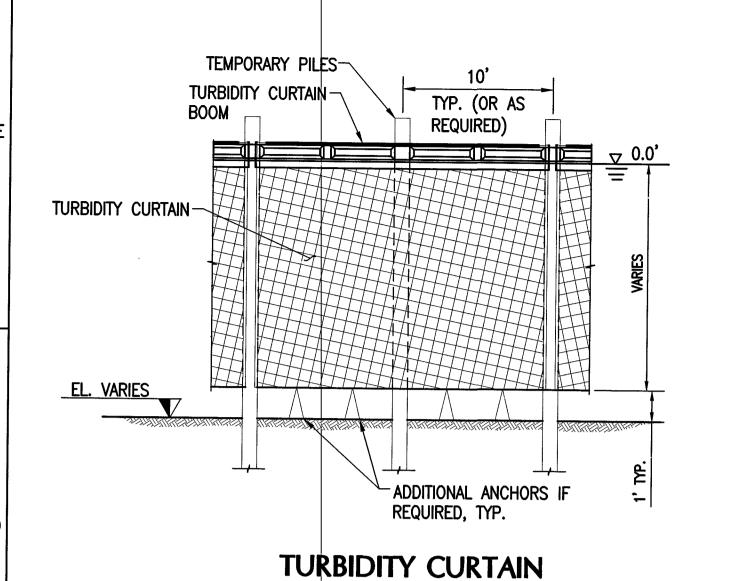












NTS

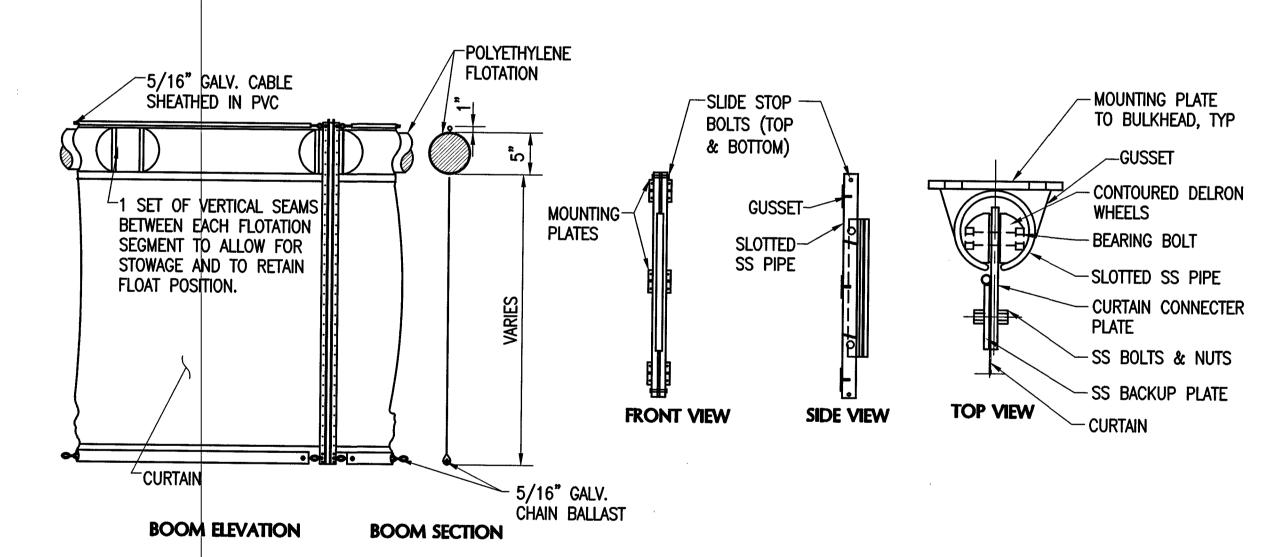
TURBIDITY CONTROL AND MONITORING NOTES:

- . CONTRACTOR SHALL SUBMIT TURBIDITY CONTROL PLAN FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION IN ACCORDANCE WITH REGULATORY PERMITS.
- 2. TURBIDITY SHALL BE MONITORED AS OUTLINED IN THE REGULATORY PERMITS.
- 3. CONTRACTOR SHALL CONDUCT TURBIDITY MONITORING UTILIZING APPROPRIATE TURBIDITY METER WHICH TESTS IN ACCORDANCE WITH EPA METHOD 180 (OR EQUIVALENT).
- 4. TURBIDITY LEVELS IN WATER COLUMN SHALL BE MONITORED AND RECORDED AT LEAST EVERY 4 HOURS DURING DREDGING OPERATIONS; OR MORE FROQUENTLY DEPENDING UPON THE FREQUENCY OF ANY POTENTIAL FOR WATER QUALITY VIOLATIONS AT THE CONSTRUCTION SITE.
- 5. SAMPLES SHALL BE COLLECTED ONE FOOT ABOVE THE BOTTOM, AT MID-DEPTH, AND ONE FOOT BELOW THE WATER SURFACE AT MONITORING STATIONS LOCATED AS FOLLOWS:

A MINIMUM OF 100 FEET OUTSIDE OF THE DREDGING FOOTPRINT, NEAR THE ENTRANCE TO THE BASIN, AND CLEARLY OUTSIDE THE INFLUENCE OF DREDGING ACTIVITIES. THIS SAMPLE SHALL SERVE AS THE NATURAL BACKGROUND SAMPLE AGAINST WHICH OTHER TURBIDITY READINGS WILL BE COMPARED.

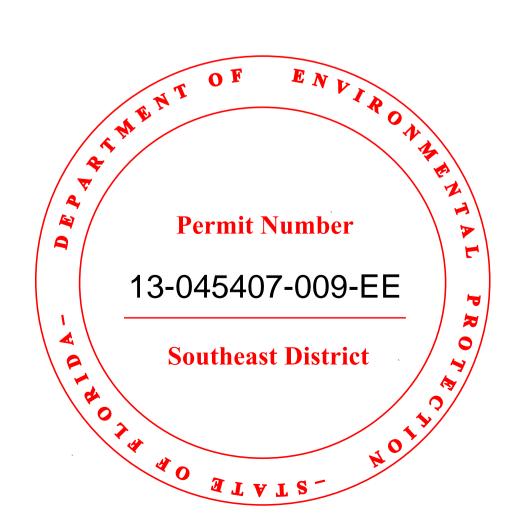
DIRECTLY OUTSIDE THE TURBIDITY CURTAINS SURROUNDING THE WORK SITE AND WITHIN THE DENSEST PORTION OF ANY VISIBLE TURBIDITY PLUME. THIS SAMPLE SHALL SERVE AS THE COMPLIANCE SAMPLE.

- 6. IF THE COMPLIANCE SAMPLE MEASURES ABOVE THE BACKGROUND SAMPLE (MEASURED IN NEPHELOMETRIC TURBIDITY UNITS (NTUS)), ALL OPERATIONS THAT ARE CAUSING THE WATER QUALITY VIOLATION WILL CEASE, AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP), MIAMI-DADE DERM, AND U.S. ARMY CORPS OF ENGINEERS SHALL BE NOTIFIED OF THE VIOLATION (AS REQUIRED IN THE ENVIRONMENTAL PERMITS ISSUED FOR THE PROJECT). WORK THAT IS CAUSING THE WATER QUALITY VIOLATION WILL NOT COMMENCE UNTIL SUCH TIME AS THE WATER QUALITY READINGS RETURN TO 0 NTUS ABOVE BACKGROUND, OR UPON THE APPROVAL OF THE AGENCIES.
- CONTRACTOR SHALL COMPILE AND SUBMIT MONITORING REPORTS TO OWNER AND TO THE AGENCIES, AS REQUIRED IN THE ENVIRONMENTAL PERMITS.
- 8. UPLAND SILT FENCING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SWPPP PLANS.



TURBIDITY CURTAIN DETAILS

N.T.S.



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

CONSULTANTS

basuito & associates, inc. consulting engineers

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DRAWN BY:

CHECKED BY: ENGINEER OF RECORD

A. PEREZ **AUG 0 3 2013** FL.REG.66507

TURBIDITY CURTAIN DETAILS

S-5

SCALE 1" = 2'-0" NOTE: ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (22"x34")

