



**DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019**

Regulatory Division
South Branch
Miami Permits Section

October 8, 2020

PUBLIC NOTICE

Permit Application No. SAJ-2013-00973 (SP-AG)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) as described below:

APPLICANT: Austral Marina, LLC

WATERWAY AND LOCATION: The project would affect waters of the United States associated with the Miami River. The project site is located at 2190 NW North River Drive in section 34, Township 53 south, Range 41east, Miami, FL 33129 (Folio # 01-3134-024-1140)

Directions to the site are as follows: From Florida 836 East take NW 17th Avenue and exit left onto NW S River Drive. Make a right onto 17th Ave, Turn left onto NW North River Drive, destination on the left.

APPROXIMATE CENTRAL COORDINATES: Latitude 25.789331°
Longitude -80.231032°

PROJECT PURPOSE:

Basic: The basic project propose is to reconfigure an existing marina to consolidate slips to the uplands and to reconfigure the existing shoreline and basin.

Overall: The overall project purpose is for marina modification and shoreline reconfiguration and stabilization at an existing upland cut marina basin on the Miami River.

EXISTING CONDITIONS: The project site consist of an existing 46 slips recreational docking and repair facility on the Miami River. The basin area is approximate 0.97 acres and contains several finger piers and wood dock structures. The location is anticipated to contain only minimal benthic resources as the Miami River does not typically support submerged aquatic vegetation or corals.

PROPOSED WORK: The applicant seeks authorization to install 370 linear feet of new concrete seawall with an associated concrete cap and 33-12" concrete king piles to

reconfigure the shoreline at the property. The project includes the back filling of the existing 0.61 acre basin with 11, 740 cubic yards of clean fill. The project also includes the installation of 2- 3 foot wide by 18 foot long finger piers, 2 wood mooring piles and 14 wood fender piles. The project proposes to construct a 20 foot wide by 50 long travel lift basin which will require the installation of concrete decks supported by 40-14" concrete piles to support the 50 ton travel lift. Finally, the project includes the dredging of both uplands and submerged bottom to -5 feet mean low water within the new proposed slip areas. The total dredge footprint will be 3,809.5 square feet (864.8 cubic yards). The project will include the temporary deployment of turbidity curtains surrounding the project area and will remain in place during the construction phase of the project.

AVOIDANCE AND MINIMIZATION INFORMATION – The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

Turbidity curtains will be employed during construction to prevent material from being released into adjacent surface waters. The curtains will extend to within one foot of the river bottom.

In the long term, water quality in the vicinity of the Project site will be improved due to more efficient flushing of surface water and the reduction of wet slips. The proposed filling will reduce the size of the basin enclosure, which will reduce flushing time and prevent the trapping and settlement of transient material. Moreover, the wet slip count will be reduced from 35 to 8, preventing the slow leaching of contaminants from the vessels into the waterbody.

COMPENSATORY MITIGATION –The applicant has provided the following explanation why compensatory mitigation should not be required:

The Project site falls within a highly commercialized and environmentally degraded portion of the Miami River. The river bottom within the project site consists of mud, detritus, and a significant amount of debris / trash. Given the water and sediment quality, it is highly unlikely that any marine resources are located within the project site. Therefore, no mitigation should be required.

CULTURAL RESOURCES: The Corps has determined the permit area has been extensively modified by previous work and there is little likelihood a historic property may be affected.

ENDANGERED SPECIES: The U.S. Army Corps of Engineers (Corps) has determined the project "may affect, but is not likely to adversely affect" the West Indian manatee (*Trichechus manatus*) or its designated critical habitat. Since the proposal by the applicant is for in-water construction, potential impacts to the endangered manatee were evaluated using The Corps of Engineers, Jacksonville District, and the State of Florida Effect Determination Key for the Manatee in Florida (Manatee Key), dated 25

April 2013. Use of the Manatee Key resulted in the following sequential determination: A > B > C > D > E > F > G > N > O > P > "MANLAA." The Corps will request the U.S. Fish and Wildlife Service consultation with these determinations pursuant to Section 7 of the Endangered Species Act by separate letter.

The Corps has determined that the project will have no effect on any other listed threatened or endangered species, and/or designated critical habitat.

ESSENTIAL FISH HABITAT (EFH): This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. The proposal would impact approximately 0.61 of un-vegetated river bottom utilized by various life stages of juvenile fish and invertebrates commonly observed in Miami- Dade County. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or Federally managed fisheries in the Miami River and Biscayne Bay. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line [has/has not] been verified by Corps personnel.

AUTHORIZATION FROM OTHER AGENCIES: Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Miami Permits Section, 9900 SW 107th Avenue, Suite #203, Miami, Florida 33176 within 21 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, Albert Gonzalez, in writing at the Miami Permits Section, 9900 SW 107th Avenue, Suite #203, Miami, Florida 33176, by electronic mail at albert.gonzalez@usace.army.mil, by fax at (305)526-7184, or by telephone at (305)779-6055.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

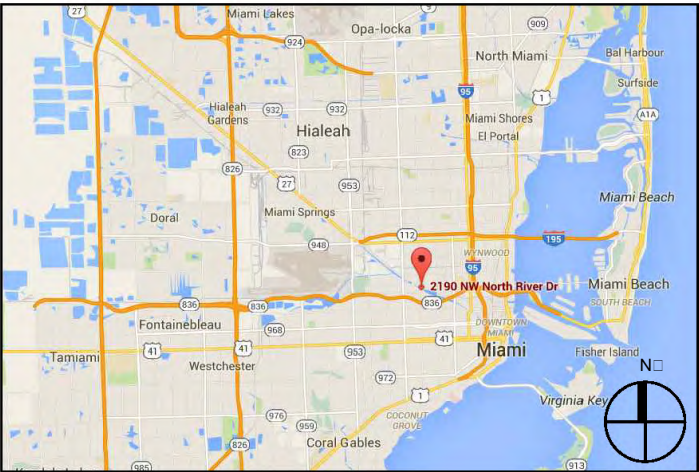
The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.

AUSTRAL MARINA DOCKING FACILITY PROJECT

PROJECT LOCATION MAPS



LEGAL DESCRIPTION

PROJECT SITE LOCATION:

2190 NW N River Drive
Miami, Florida 33125

LATITUDE: 25°47'22.12"N
LONGITUDE: 80°13'51.81"W

PROJECT LEGAL DESCRIPTION:

Lots 1 through 12, both inclusive, Block 9 and Lot 1, Block 8, together with that alley located between Lots 10 and 11, Block 9 and that certain alley located between Block 8 and 9, all in "RIVERSEDGE" according to the Plat thereof as recorded in Plat Book 23 at Page 78 of the Public Records of Miami-Dade County, Florida.

FOLIOS:

01-3134-024-1140,
01-3134-024-1190,
01-3134-024-1200,
01-3134-024-1210,
01-3134-024-1220,
01-3134-024-1230,
01-3134-024-1240,
01-3134-024-1250,
01-3134-024-1260,
01-3134-024-1270,
01-3134-024-1280,
01-3134-024-1290,
01-3134-024-1300,

PROJECT NOTES

GENERAL NOTES

- ELEVATIONS SHOWN REFER TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
- ALL DIMENSIONS ON PLANS ARE SUBJECT TO VERIFICATION IN THE FIELD.
- IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF ENGINEER BEFORE PROCEEDING WITH WORK. CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL LINES, ELEVATIONS, AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
- IT IS THE INTENT OF THESE PLANS AND THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH LOCAL, STATE, AND FEDERAL ENVIRONMENTAL PERMITS ISSUED FOR THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE AND GOVERN HIMSELF BY ALL PROVISIONS OF THESE PERMITS.
- APPLICABLE BUILDING CODE: FLORIDA BUILDING CODE, 2017 EDITION (AND CURRENT ADDENDUMS).
- APPROVED CONTRACTOR TO DETERMINE THE SUITABILITY OF EXISTING STRUCTURES AND VERIFY ALL DIMENSIONS. THE APPROVED CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCES AND PROCEDURES OF WORK.
- DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK.
- CONTRACTOR TO PROPERLY FENCE AND SECURE AREA WITH BARRICADES.
- ANY DEVIATION AND/OR SUBSTITUTION FROM THE INFORMATION PROVIDED HEREIN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- ALL NEW MATERIALS AND/OR PATCHWORK SHALL BE PROVIDED TO MATCH EXISTING MATERIALS AND/OR ADJOINING WORK WHERE PRACTICAL EXCEPT AS SPECIFICALLY NOTED HEREIN.
- LICENSED CONTRACTOR SHALL USE ALL POSSIBLE CARE TO PROTECT ALL EXISTING MATERIALS, SURFACES, AND FURNISHINGS FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION.
- THE LICENSED CONTRACTOR TO INSTALL AND REMOVE ALL SHORING AND BRACING AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK.
- ALL NEW WORK AND/OR MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF EACH ADMINISTRATIVE BODY HAVING JURISDICTION IN EACH PERTAINING CIRCUMSTANCE.
- THE CONTRACTOR WILL EMPLOY AND MAINTAIN ADEQUATE SEDIMENT AND EROSION CONTROL MEASURES TO PROTECT BISCAYNE BAY FROM SEDIMENT AND CONSTRUCTION DEBRIS.

DOCK: LL 100 PSF

BOLT NOTES

- ALL BOLTS SHALL BE 316 STAINLESS STEEL, UNLESS OTHERWISE NOTED.

INDEX OF DRAWINGS

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S-3B	ENLARGED PROPOSED CONDITIONS
S-4	PROPOSED FILL PLAN AND TYP. FILL SECTIONS
S-5	PROPOSED DREDGE PLAN AND TYP. DREDGE SECTIONS
S-6A	EXISTING AND PROPOSED SEAWALL SECTIONS

WOOD NOTES

- PRIMARY WOOD FRAMING MEMBERS SHALL BE NUMBER 1 PRESSURE TREATED SOUTHERN PINE OR BETTER.
- ALL DIMENSIONS ON PLANS ARE SUBJECT TO VERIFICATION IN THE FIELD.

CONCRETE NOTES

- CONCRETE SHALL CONFORM TO ACI 318 (LATEST ED.) AND SHALL BE REGULAR WEIGHT, SULFATE RESISTANT, WITH A DESIGN STRENGTH OF 5,000 PSI AT 28 DAYS W/ A MAX WATER-CEMENTIOUS MATERIALS RATIO, BY WEIGHT, NORMAL WEIGHT AGGREGATE CONCRETE OF 0.40.
- OWNER SHALL EMPLOY AND PAY FOR TESTING SERVICES FROM AN INDEPENDENT TESTING LABORATORY FOR CONCRETE SAMPLING AND TESTING IN ACCORDANCE W/ ASTM.
- LICENSED CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF FORMS AND SHORING AND FOR SAFE PRACTICE IN THEIR USE AND REMOVAL.
- CONCRETE COVER SHALL BE 3" UNLESS OTHERWISE NOTED ON APPROVED DRAWINGS.
- REINFORCING STEEL SHALL BE IN CONFORMANCE WITH THE LATEST VERSION OF ASTM A615 GRADE 60 SPECIFICATIONS. ALL REINFORCEMENT SHALL BE PLACED IN ACCORDANCE W/ ACI 315 AND ACI MANUAL OF STANDARD PRACTICE.
- SPLICES IN REINFORCING BARS SHALL NOT BE LESS THAN 48 BAR DIAMETERS AND REINFORCING SHALL BE CONTINUOUS AROUND ALL CORNERS AND CHANGES IN DIRECTION. CONTINUITY SHALL BE PROVIDED AT CORNERS OR CHANGES IN DIRECTION BY BENDING THE LONGITUDINAL STEEL AROUND THE CORNER 48 BAR DIAMETERS.

PILE DRIVING NOTES

- PILE DRIVING OPERATIONS SHALL BE OBSERVED BY A SPECIAL INSPECTOR, INCLUDING TEST PILES SUFFICIENT TO DETERMINE THE APPROXIMATE LENGTH REQUIRED TO MEET DESIGN CAPACITY.
- PILES SHALL BE DRIVEN USING AN APPROVED CUSHION BLOCK CONSISTING OF MATERIAL SO ARRANGED SO AS TO PROVIDE THE TRANSMISSION OF THE HAMMER ENERGY.
- PILES SHALL BE DRIVEN TO REQUIRED CAPACITY A MIN 12. INTO BERM.
- PILES SHALL BE DRIVEN WITH A DROP HAMMER OR GRAVITY HAMMER PROVIDED THE HAMMER SHALL WEIGH NO LESS THAN 3,000 POUNDS, AND THE FALL OF THE HAMMER SHALL NOT EXCEED 6 FT.
- PILES SHALL BE DRIVEN WITH A VARIATION OF NOT MORE THAN ¼" PER FOOT FROM THE VERTICAL, OR FROM THE BATTER LINE INDICATED, WITH A MAX VARIATION OF THE HEAD OF THE PILE FROM THE POSITION SHOWN ON THE PLANS OF NOT MORE THAN 3".
- WHERE PILING MUST PENETRATE STRATA OFFERING HIGH RESISTANCE TO DRIVING, THE STRUCTURAL ENGINEER OF RECORD OR SPECIAL INSPECTOR MAY REQUIRE THAT PILES BE SET IN PRE-DRILLED OR PUNCHED HOLES. THE PILES SHALL REACH THEIR FINAL PENETRATION BY DRIVING.

S-6B	EXISTING AND PROPOSED SEAWALL SECTIONS
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S-8	TRAVEL LIFT PIER SECTION DETAILS AND PROPOSED MARINA SLIP MIX AND MOORING PLAN
S-9	WOOD DOCK FRAMING PLAN
S-10	TYPICAL DOCK SECTIONS, HANGER BLOCK AND CONTROL JOINT DETAILS
S-11	CONCRETE PILES DETAILS

AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

CLIENT:

AUSTRAL MARINA, LLC

2190 NW N River Drive
Miami, FL 33125

ENVIRONMENTAL CONSULTANT:

OCEAN CONSULTING, LLC

340 Minorca Avenue, Suite 7
Coral Gables, Florida 33134

Tel: (305) 921-9344

Fax: (305) 677-3254

CONTRACTOR:

SOUTHEAST MARINE CONSTRUCTION

404 NE 38th St
Oakland Park, FL 33334

Tel: (954) 630-2300

Fax: (954) 630-2381

PROJECT ENGINEER:

DYNAMIC ENGINEERING SOLUTIONS, INC.

351 S. Cypress Road, Suite 303
Pompano Beach, FL 33060

Office - 954-545-1740

Fax - 954-545-1721

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John Omslaer
PE 52733, CA 26829

Issue # Issue Date

① Dec. 11, 2019

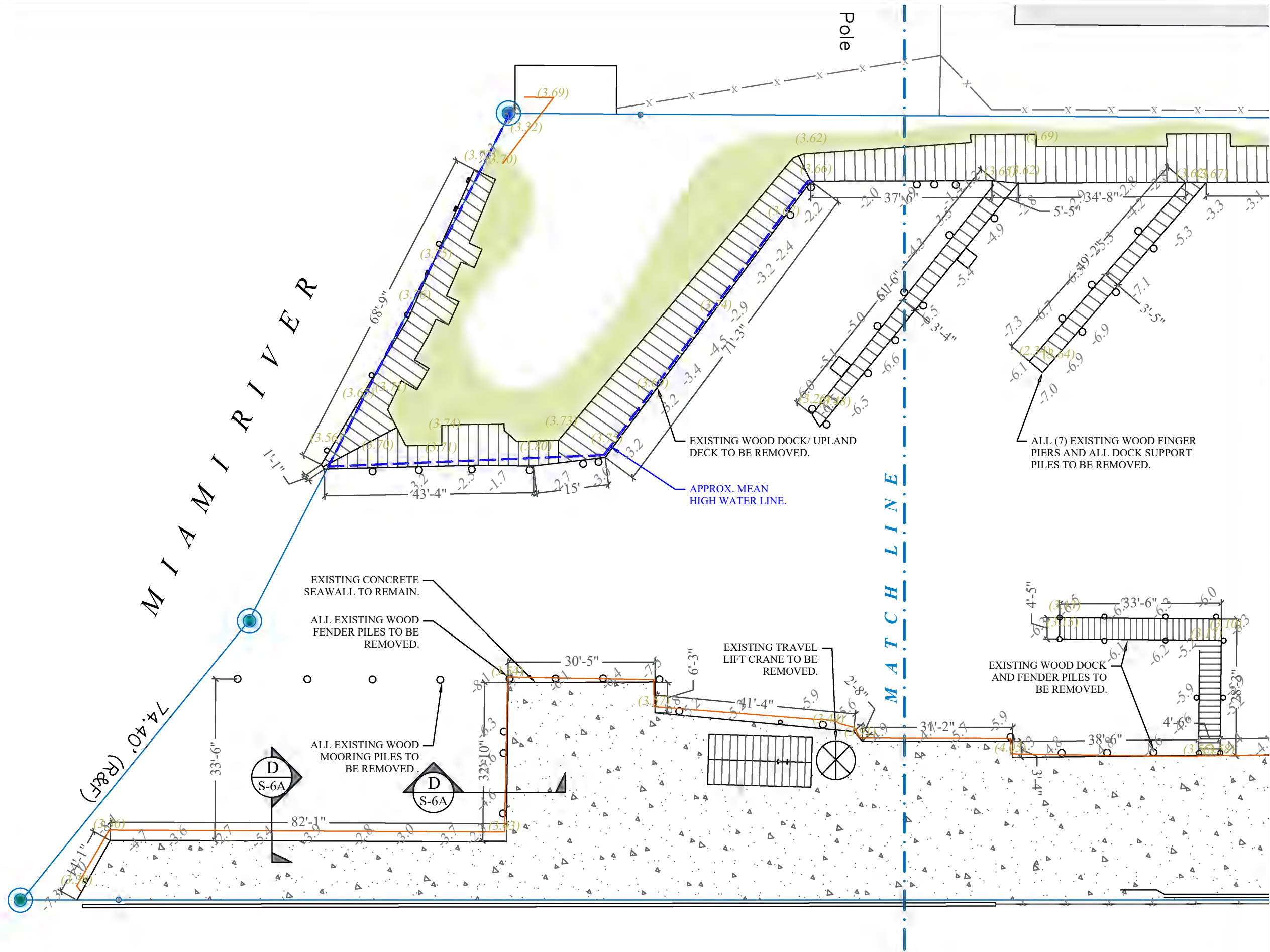
PROJECT LOCATION & NOTES

PERMIT DRAWINGS

PROJECT: 15-5315

SHEET NO.

S-1



AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

CLIENT:
AUSTRAL MARINA, LLC
2190 NW N River Drive
Miami, FL 33125

ENVIRONMENTAL CONSULTANT:
OCEAN CONSULTING, LLC
340 Minorca Avenue, Suite 7
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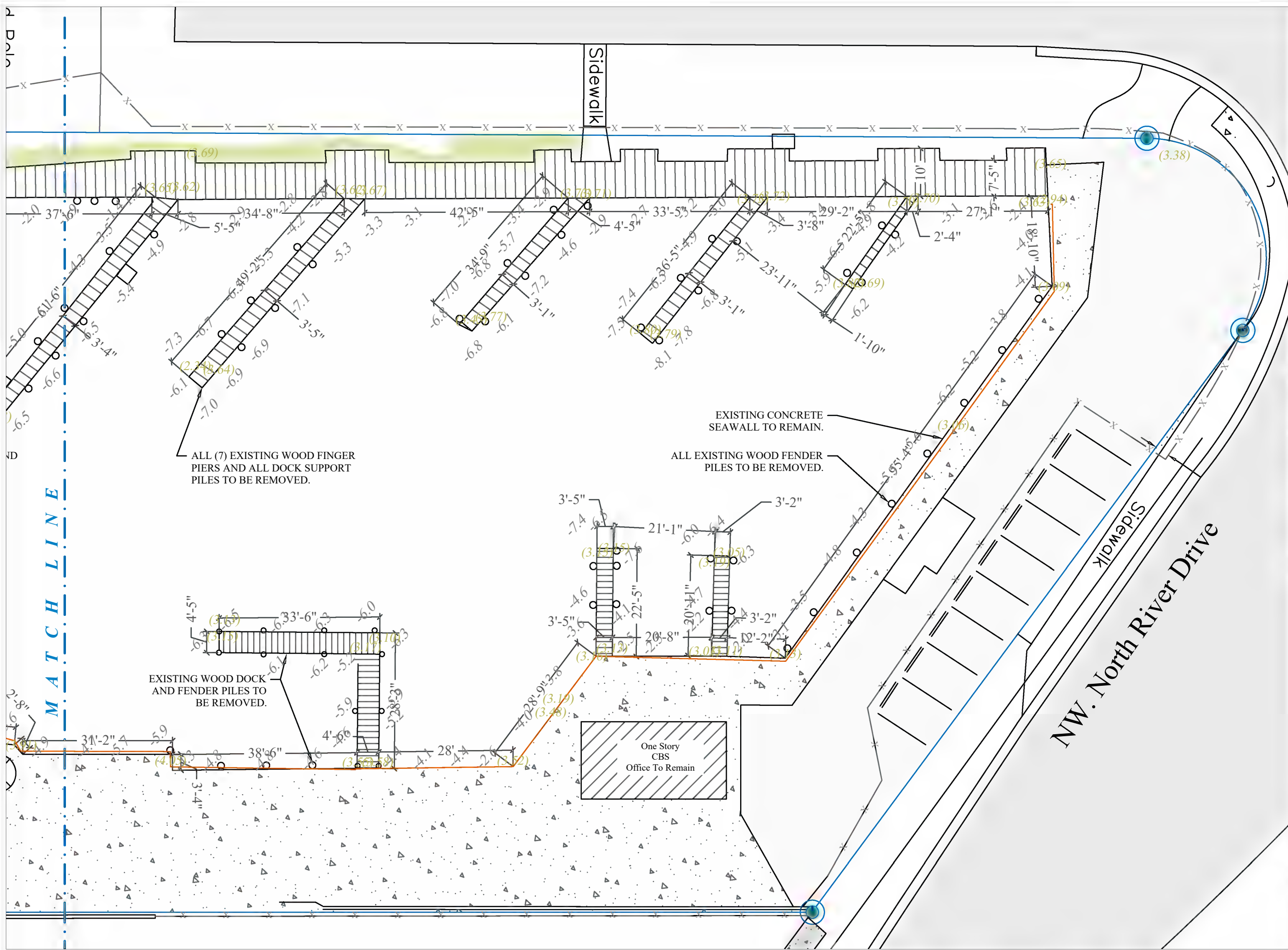
ENLARGED EXISTING CONDITIONS

PERMIT DRAWINGS

PROJECT: 15-5315

SHEET NO.

S-2A



AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

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AUSTRAL MARINA, LLC
2190 NW N River Drive
Miami, FL 33125

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John Omslaer
PE 52733, CA 26829

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ENLARGED EXISTING CONDITIONS

PERMIT DRAWINGS
PROJECT: 15-5315

SHEET NO.

S-2B



- TOTAL DOCK AREA: 108 SF
 - DOCK - A 54 SF
 - DOCK - B 54 SF

- (5) 12" DIA. WOOD FENDER
PILES DRIVEN TO A 15-TON
MINIMUM BEARING CAPACITY.

26,414.8 SF OF EXISTING BASIN TO BE
FILLED TO +6.0' NGVD. USE APROX.
11,7340 CY OF CLEAN COMPACT FILL
PER CURRENT 2017 FBC.

Miami, Florida

AUSTRAL MARINA, LLC

2190 NW N River Drive
Miami, FL 33125

OCEAN CONSULTING, LLC

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Coral Gables, Florida 33134 Fax: (305) 677-3254

SOUTHEAST MARINE CONSTRUCTION

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Pompano Beach, FL 33060 Fax - 954-545-1721

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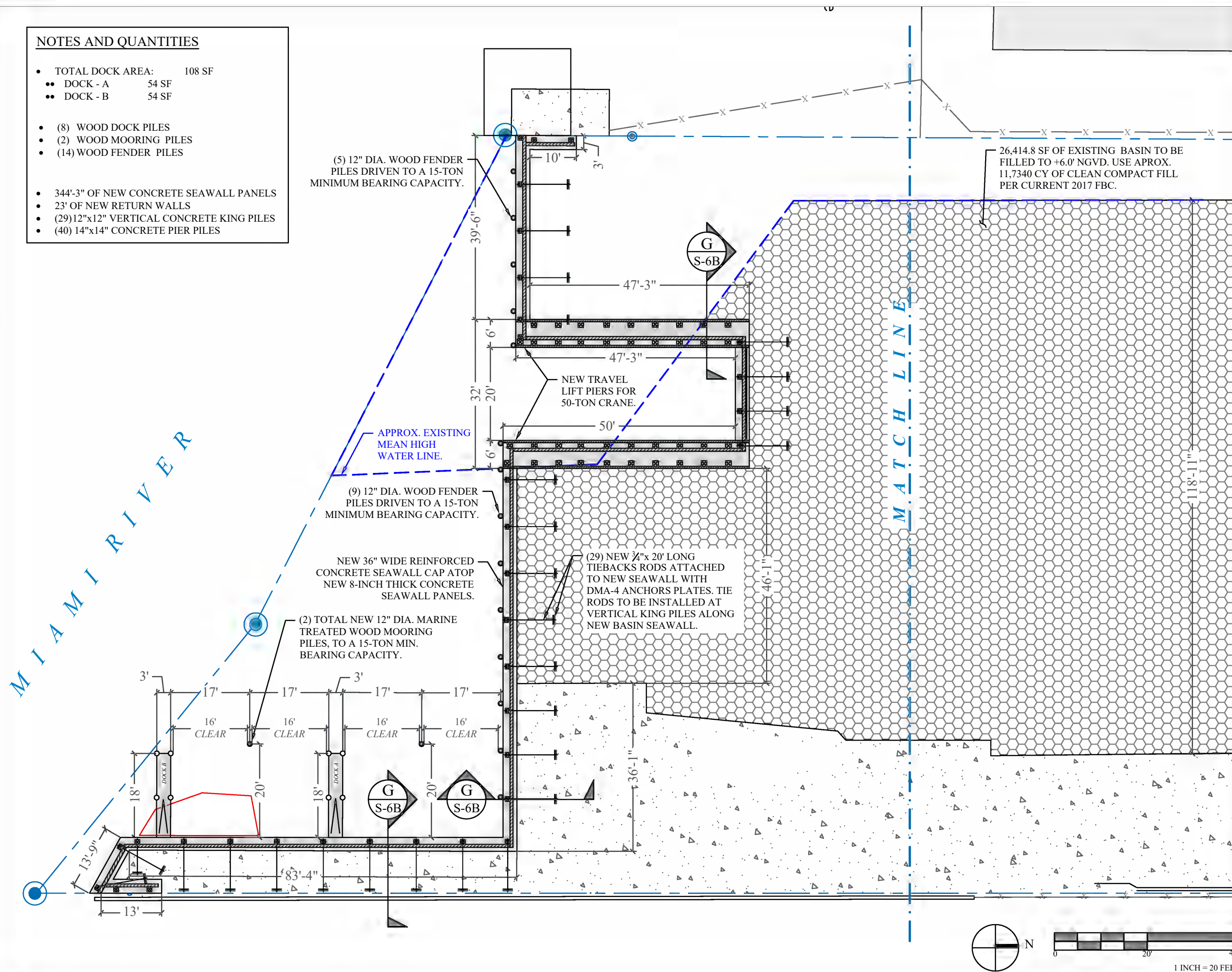
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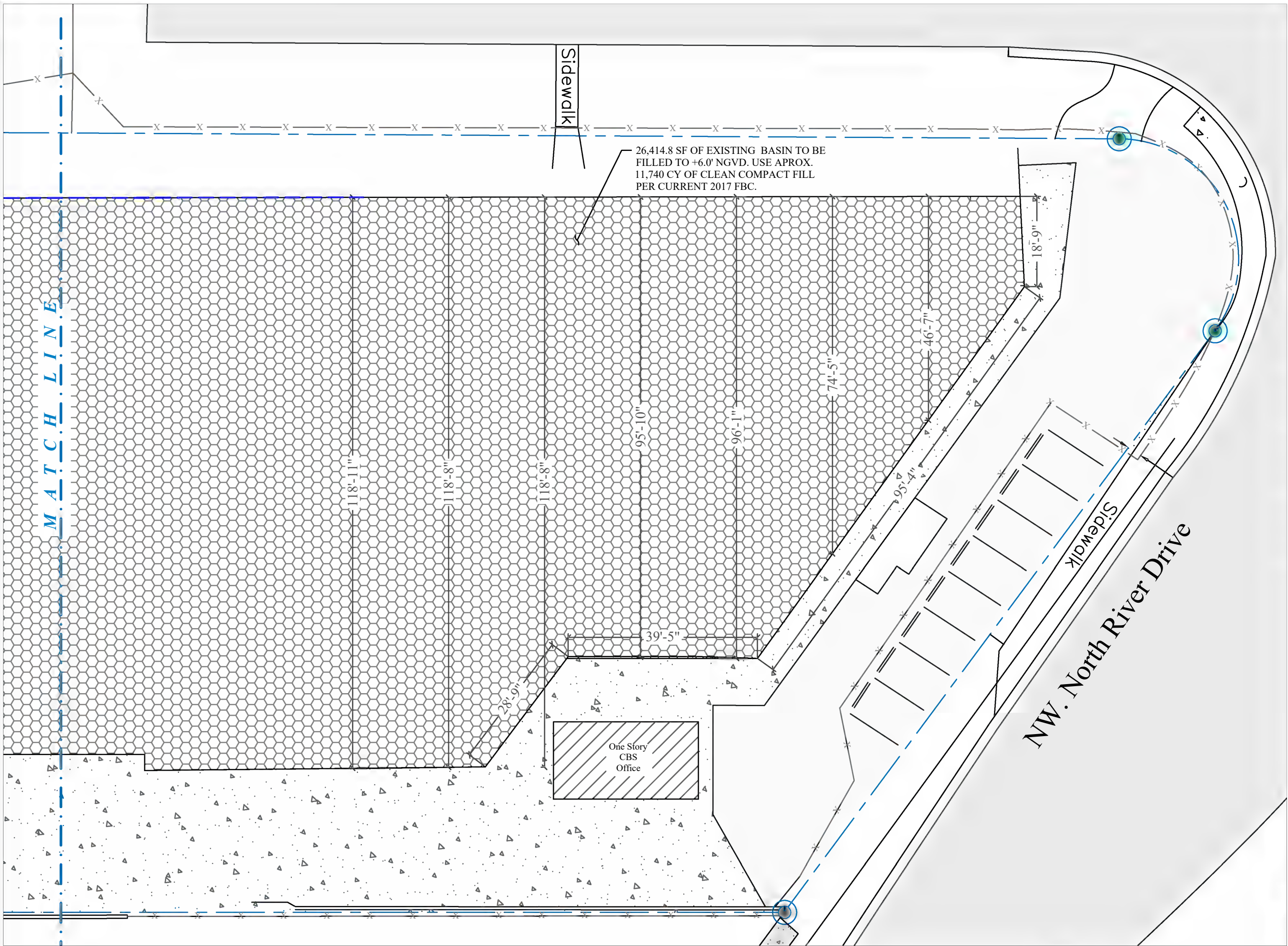
PERMIT DRAWINGS

PROJECT: 15-5315

SHEET NO.

S-3A





PROPOSED CONDITIONS



AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

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PE 52733, CA 26829

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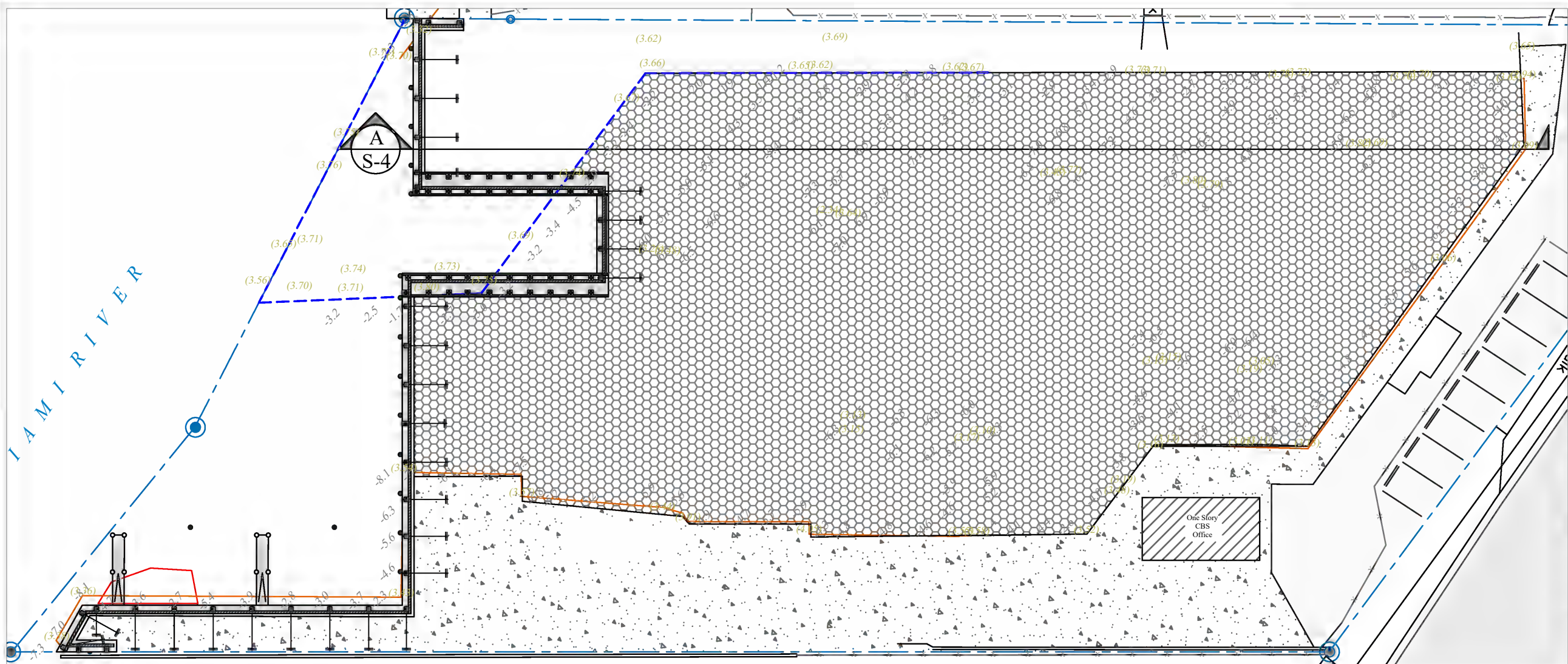
ENLARGED PROPOSED
CONDITIONS

PERMIT DRAWINGS

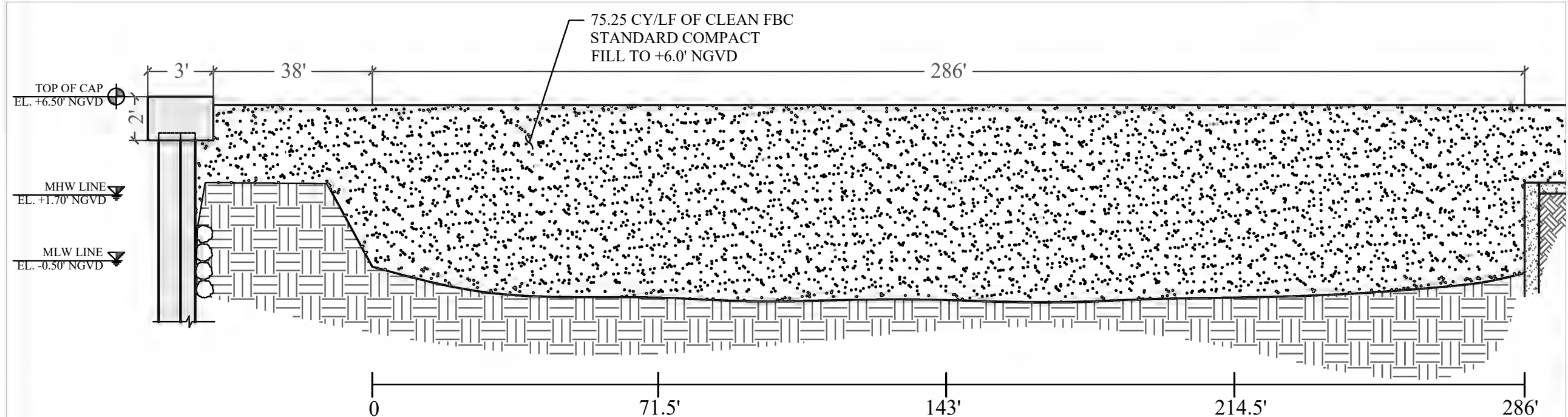
PROJECT: 15-5315

SHEET NO.

S-3B



PROPOSED FILL CONDITIONS



FILL SECTION DETAIL
SCALE: 3/16" = 1'-0"

AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

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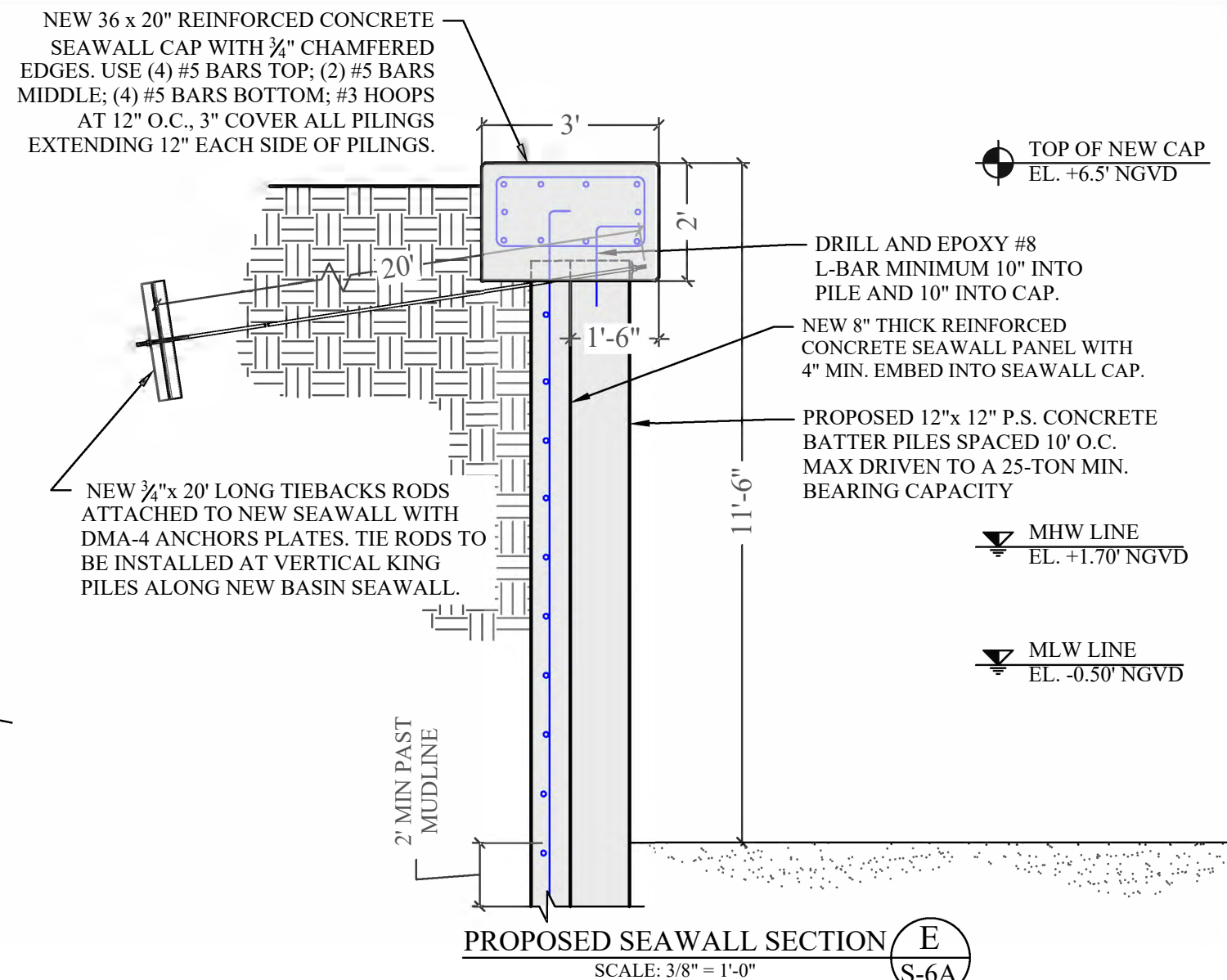
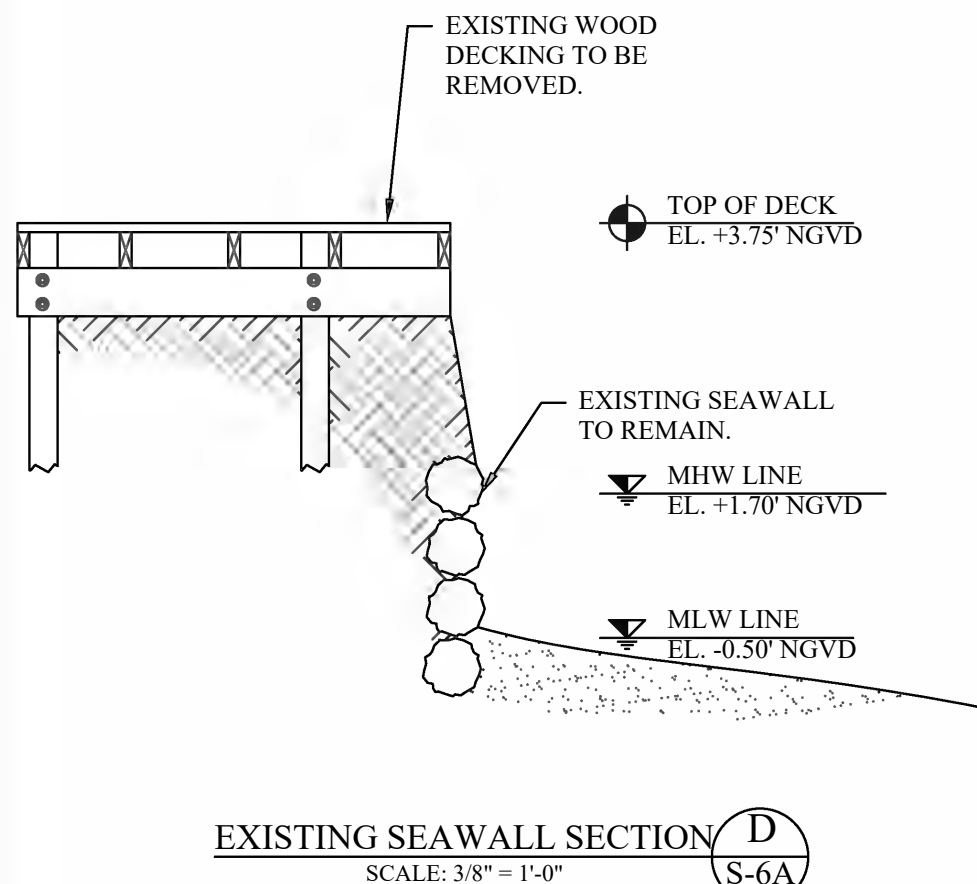
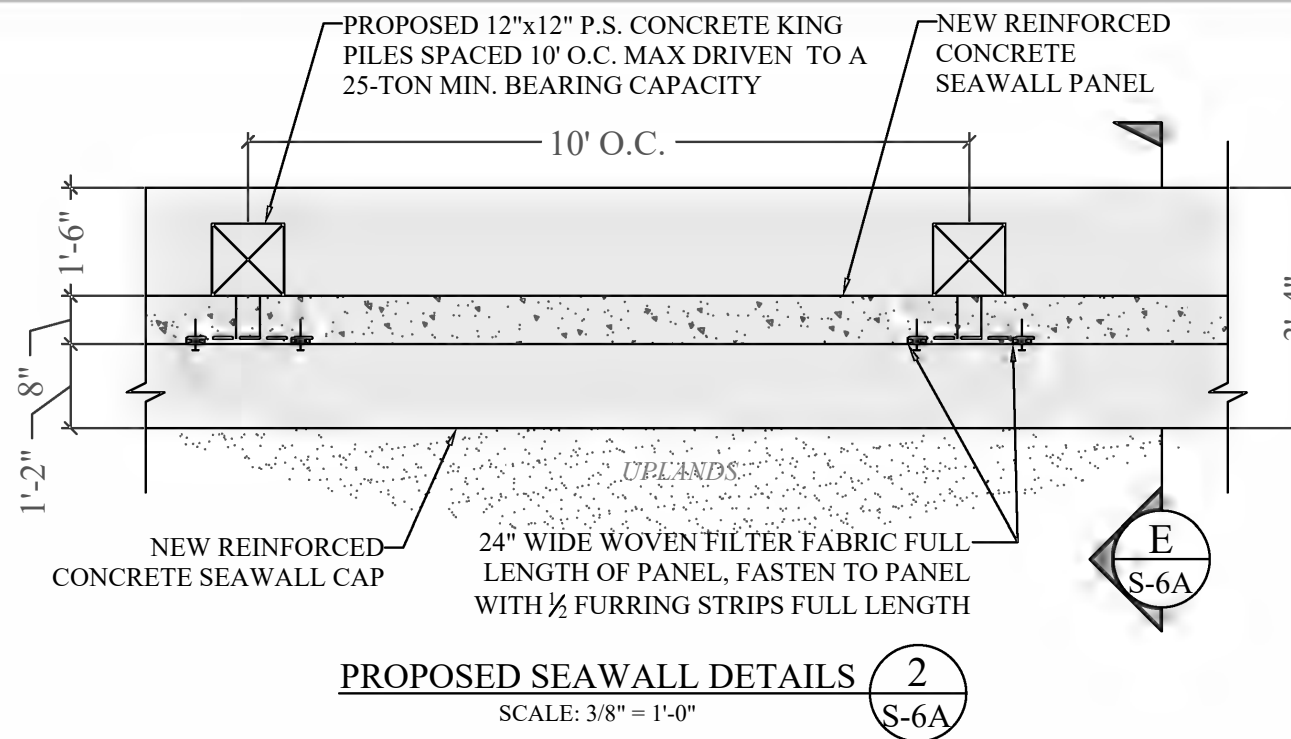
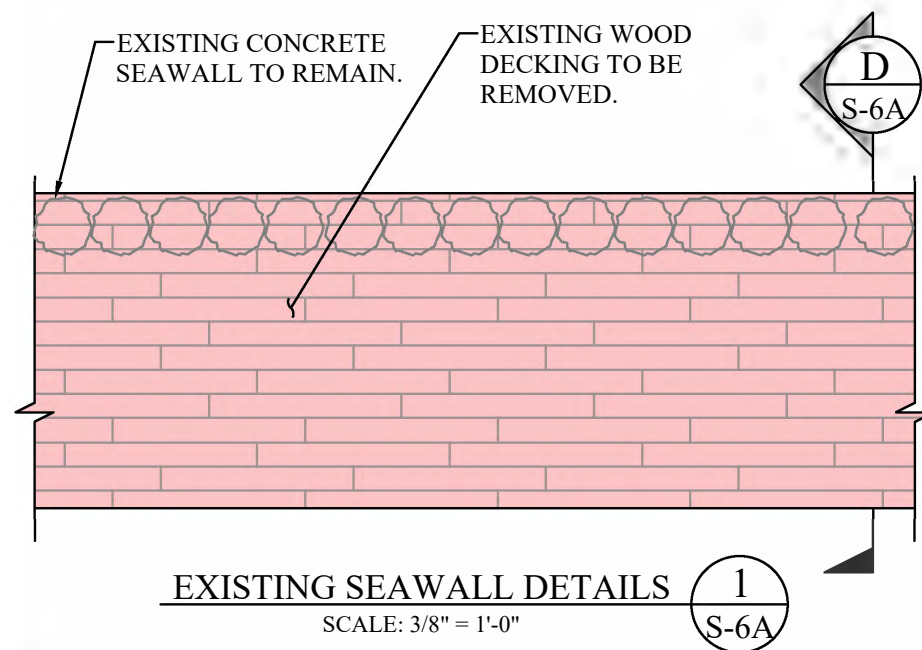
PROPOSED FILL PLAN &
TYPICAL FILL SECTIONS

PERMIT DRAWINGS
PROJECT: 15-5315

SHEET NO.
S-4



S-5



AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

CLIENT:

AUSTRAL MARINA, LLC

2190 NW N River Drive
Miami, FL 33125

ENVIRONMENTAL CONSULTANT:

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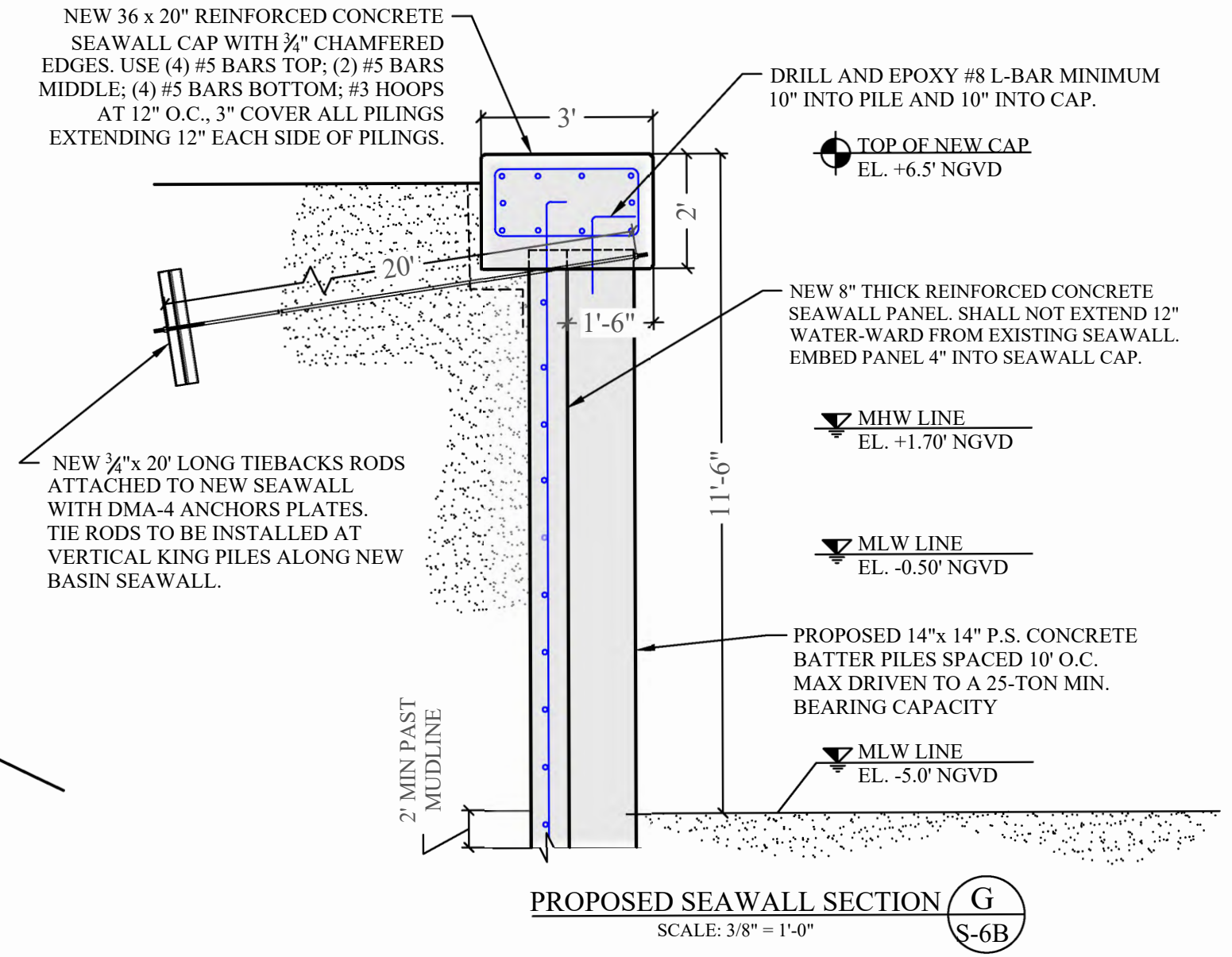
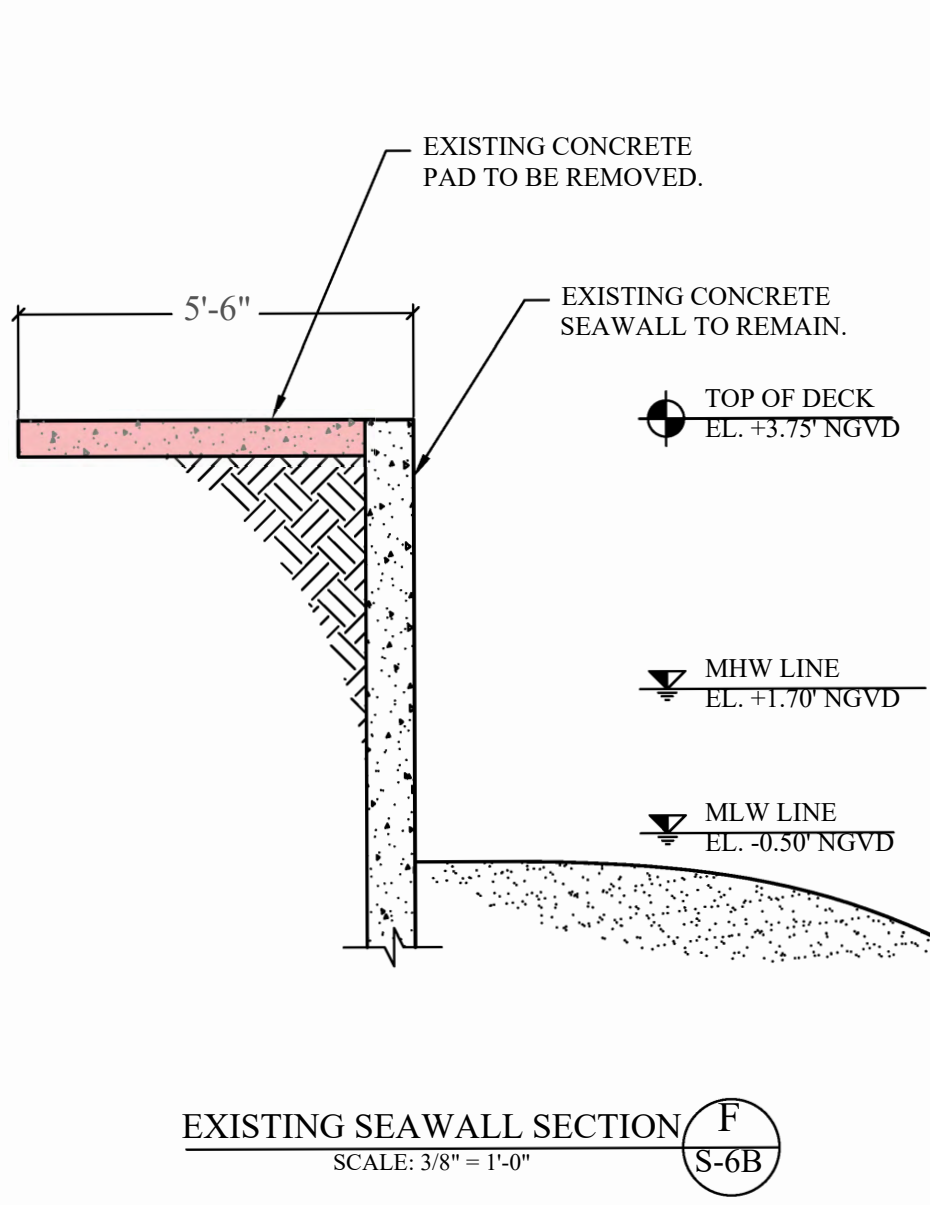
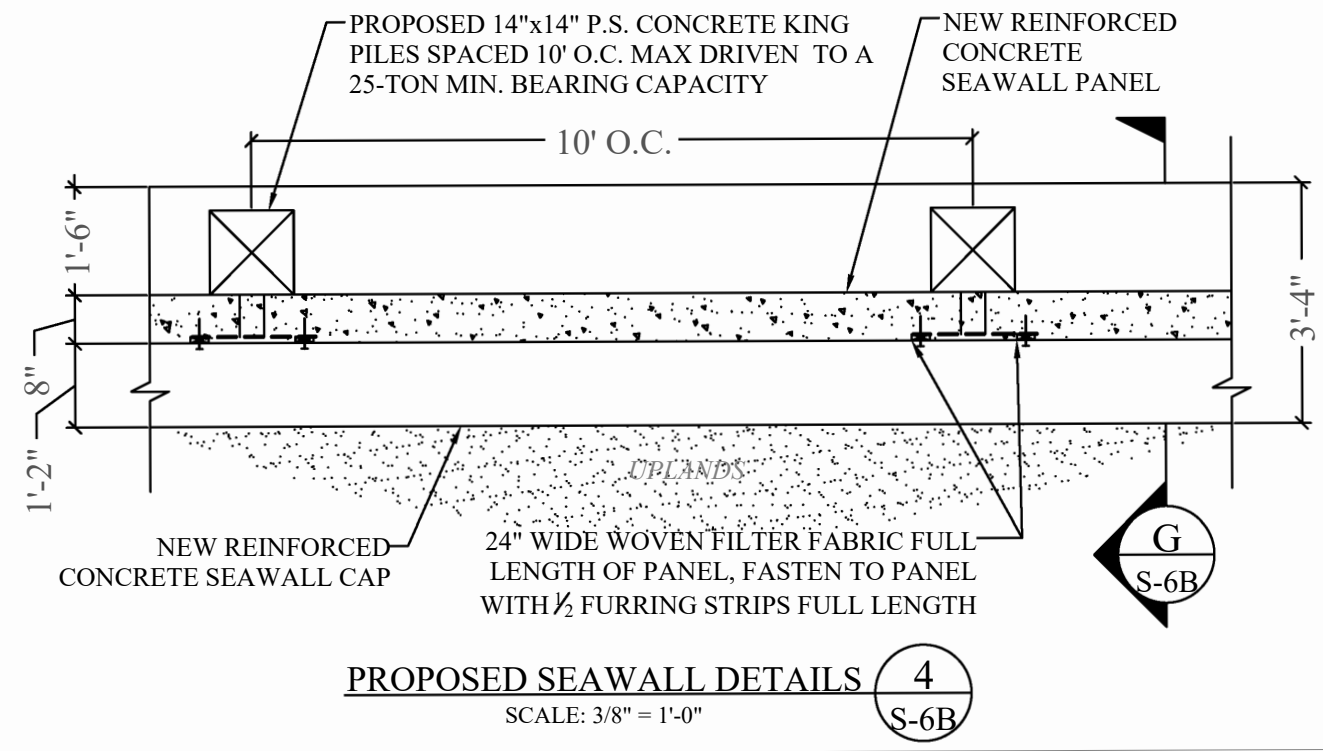
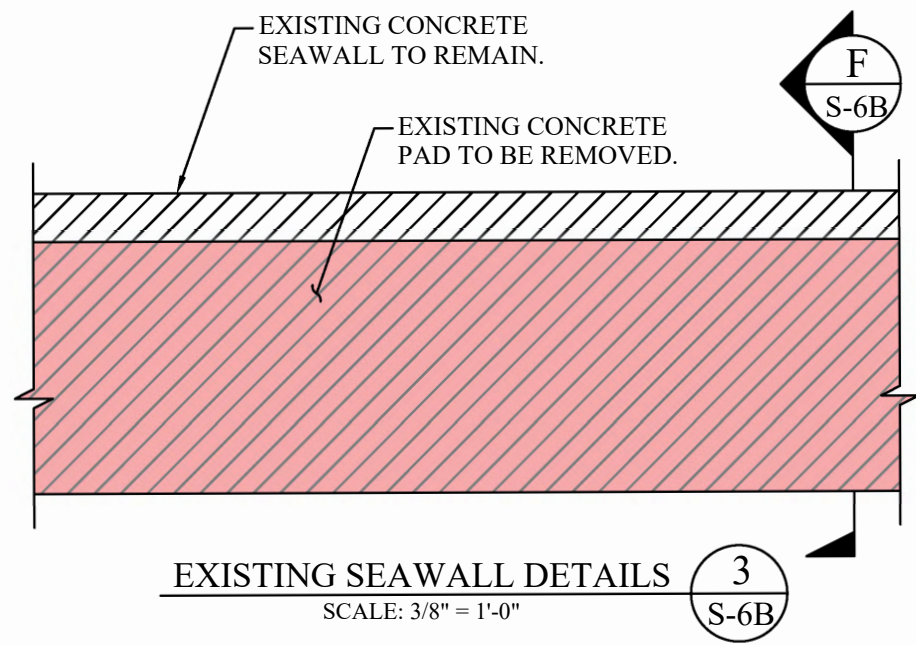
EXISTING & PROPOSED
SEAWALL SECTIONS

PERMIT DRAWINGS

SHEET NO.

PROJECT: 15-5315

S-6A



AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

CLIENT:
AUSTRAL MARINA, LLC
2190 NW N River Drive
Miami, FL 33125

ENVIRONMENTAL CONSULTANT:
OCEAN CONSULTING, LLC
340 Minorca Avenue, Suite 7 Tel: (305) 921-9344
Coral Gables, Florida 33134 Fax: (305) 677-3254

CONTRACTOR:
SOUTHEAST MARINE CONSTRUCTION
404 NE 38th St Tel: (954) 630-2300
Oakland Park, FL 33334 Fax: (954) 630-2381

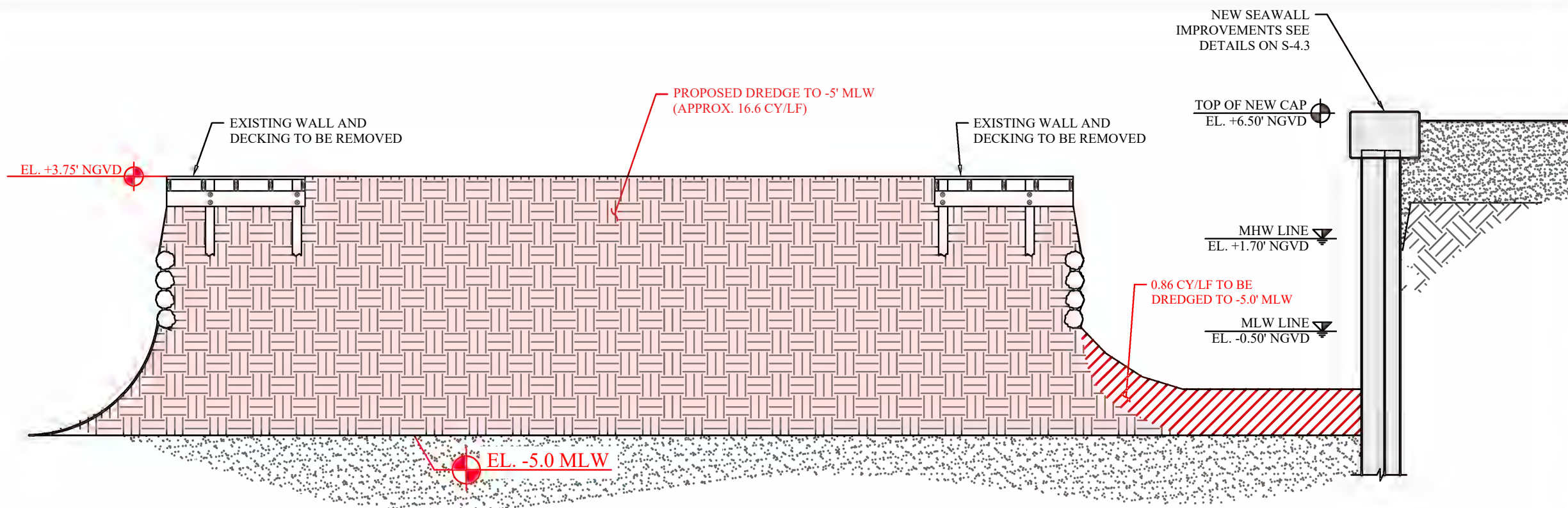
PROJECT ENGINEER:
DYNAMIC ENGINEERING SOLUTIONS, INC.
351 S. Cypress Road, Suite 303 Office - 954-545-1740
Pompano Beach, FL 33060 Fax - 954-545-1721

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John Omslaer
PE 52733, CA 26829

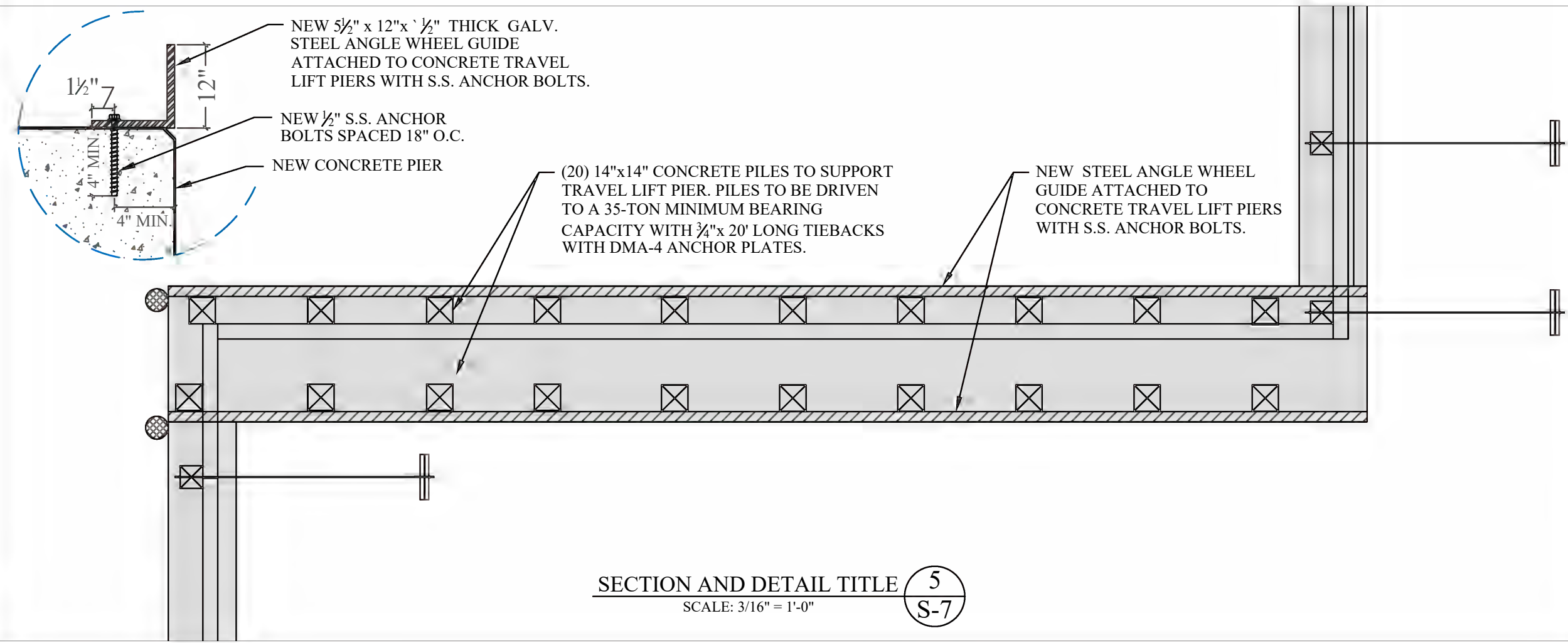
Issue #	Issue Date
①	Dec. 11, 2019

EXISTING & PROPOSED
SEAWALL SECTIONS

PERMIT DRAWINGS SHEET NO.
PROJECT: 15-5315 **S-6B**



BASIN DREDGE SECTION DETAIL H
S-7



SECTION AND DETAIL TITLE 5
S-7
SCALE: 3/16" = 1'-0"

AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

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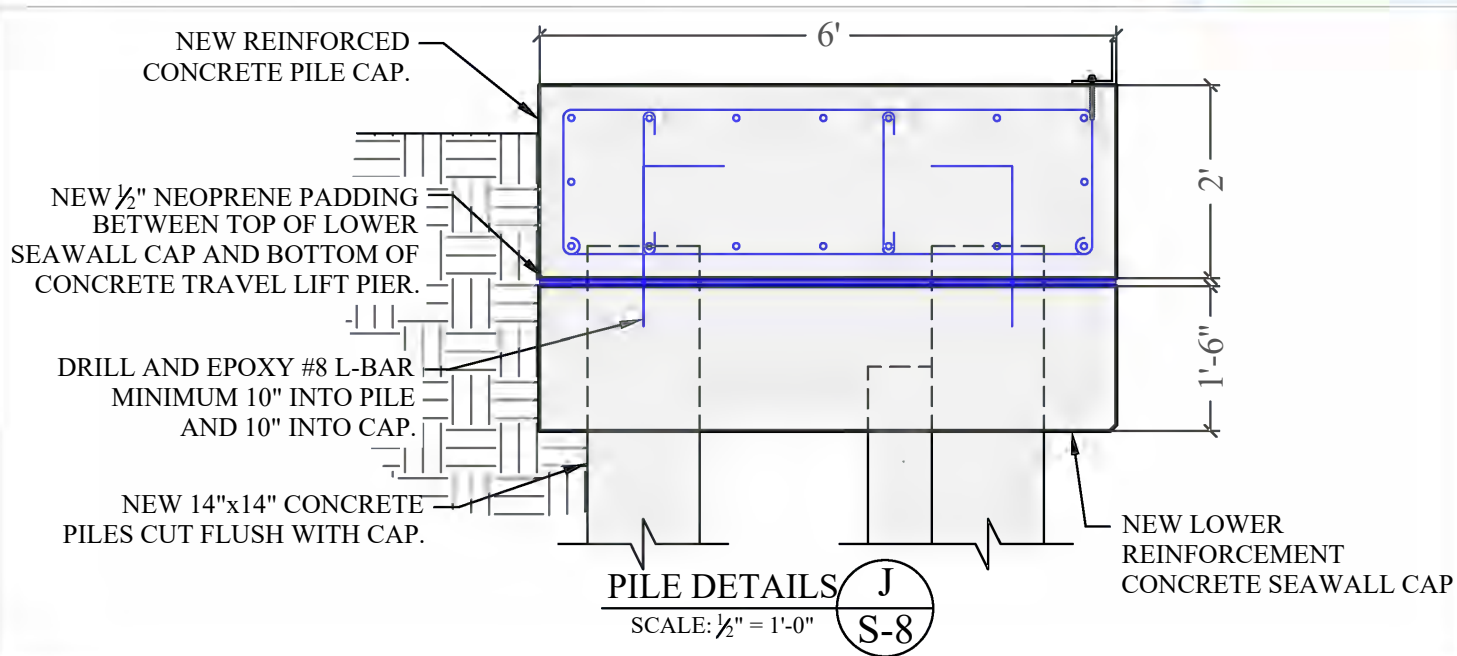
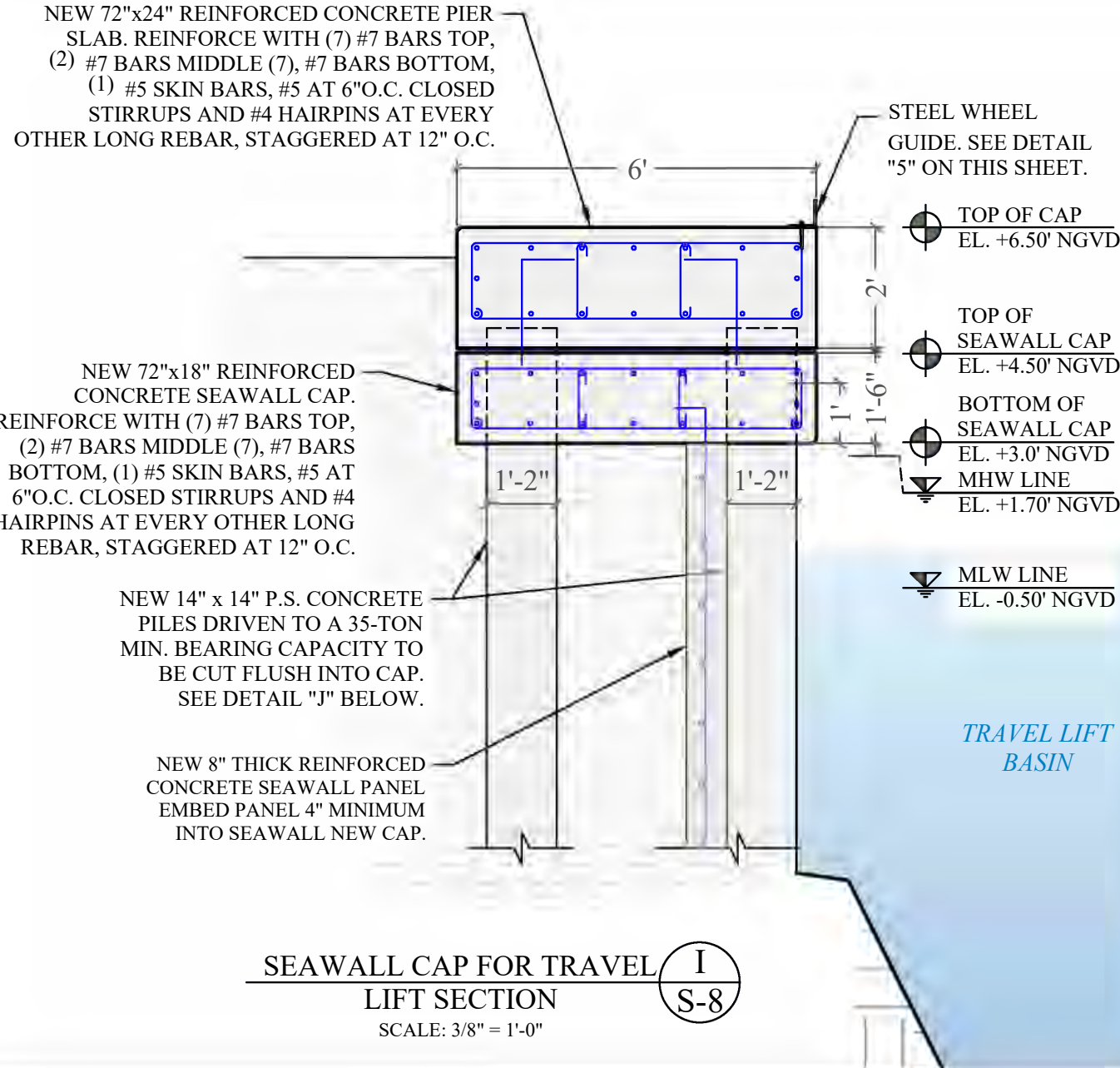
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John Omslaer
PE 52733, CA 26829

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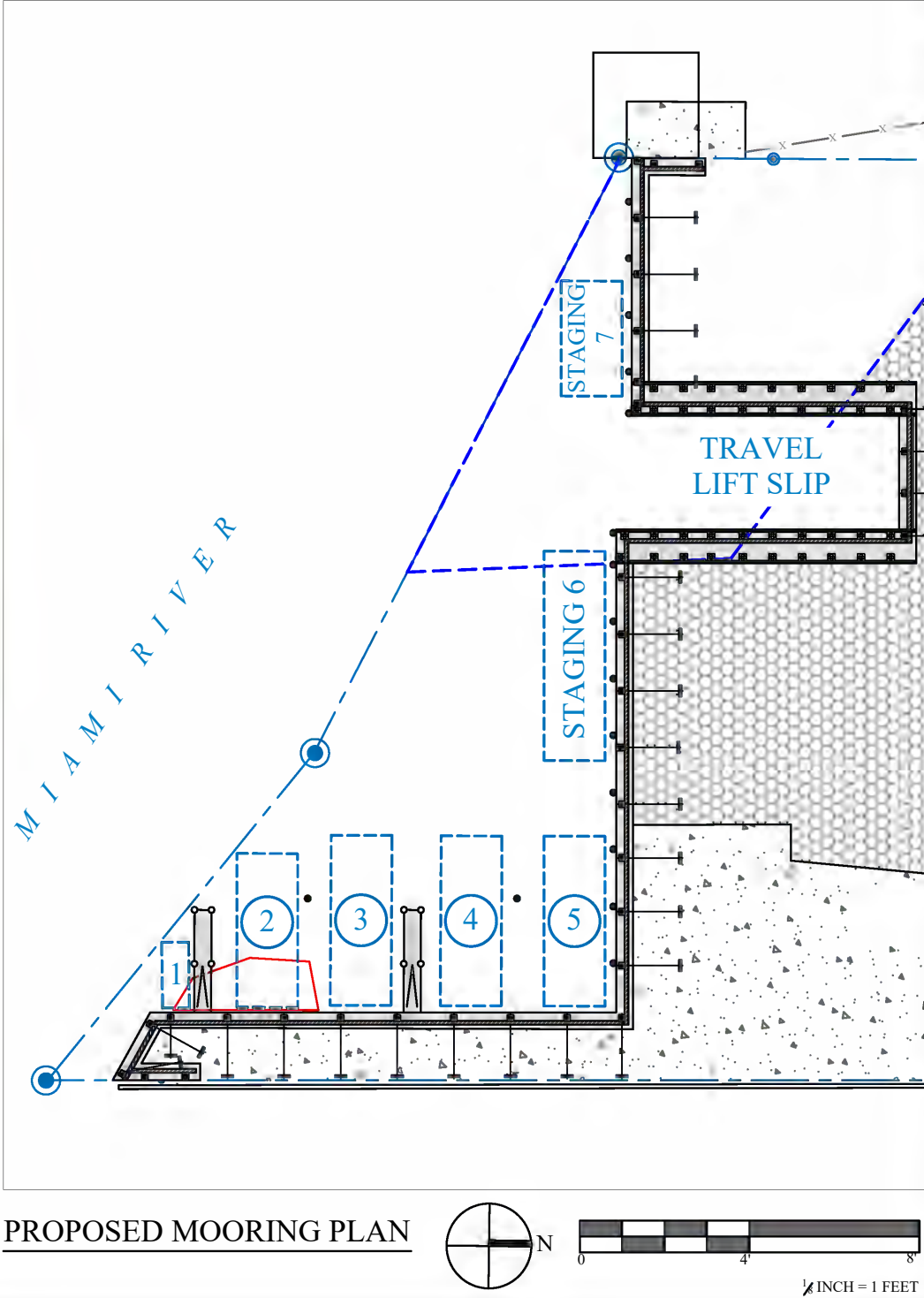
TYP. BASIN DREDGE SECTION &
TRAVEL LIFT PIER DETAIL

PERMIT DRAWINGS SHEET NO.
PROJECT: 15-5315

S-7



AUSTRAL MARINA SLIP MIX			
SLIP No.	LENGTH	WIDTH	MAX. DRAFT
1	15'-0"	5'-0"	4'-0"
2	27'-0"	16'-0"	4'-0"
3	40'-0"	16'-0"	4'-0"
4	40'-0"	16'-0"	4'-0"
5	15'-0"	16'-0"	4'-0"
TRAVEL LIFT	50'-0"	20'-0"	4'-0"
STAGING 6	37'-0"	16'-0"	4'-0"
STAGING 7	20'-0"	16'-0"	4'-0"



AUSTRAL MARINA
BASIN FILL PROJECT

Miami, Florida

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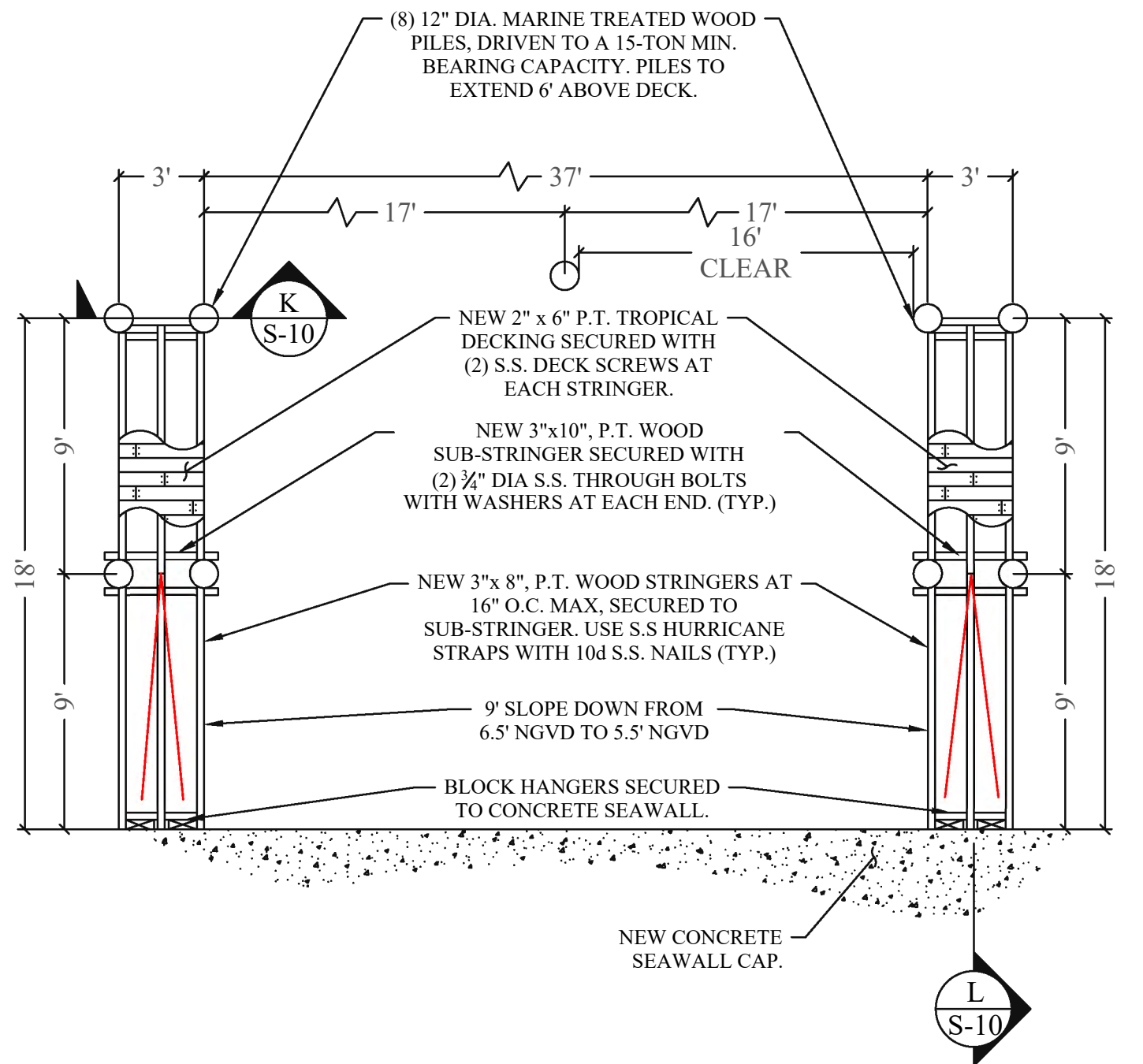
PROJECT ENGINEER:
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351 S. Cypress Road, Suite 303
Pompano Beach, FL 33060
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Issue # Issue Date
1 Dec. 11, 2019

TRAVEL LIFT PIER TYP. SECTION AND PROPOSED MARINA SLIP MIX & MOORING PLAN

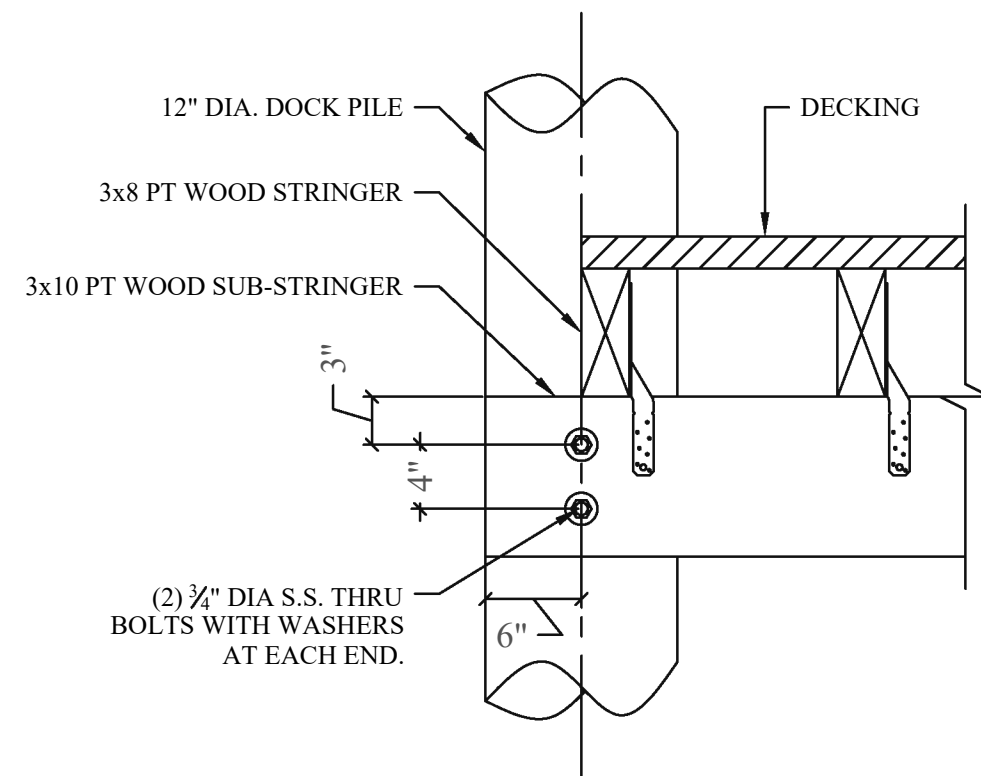
PERMIT DRAWINGS SHEET NO.
PROJECT: 15-5315 S-8



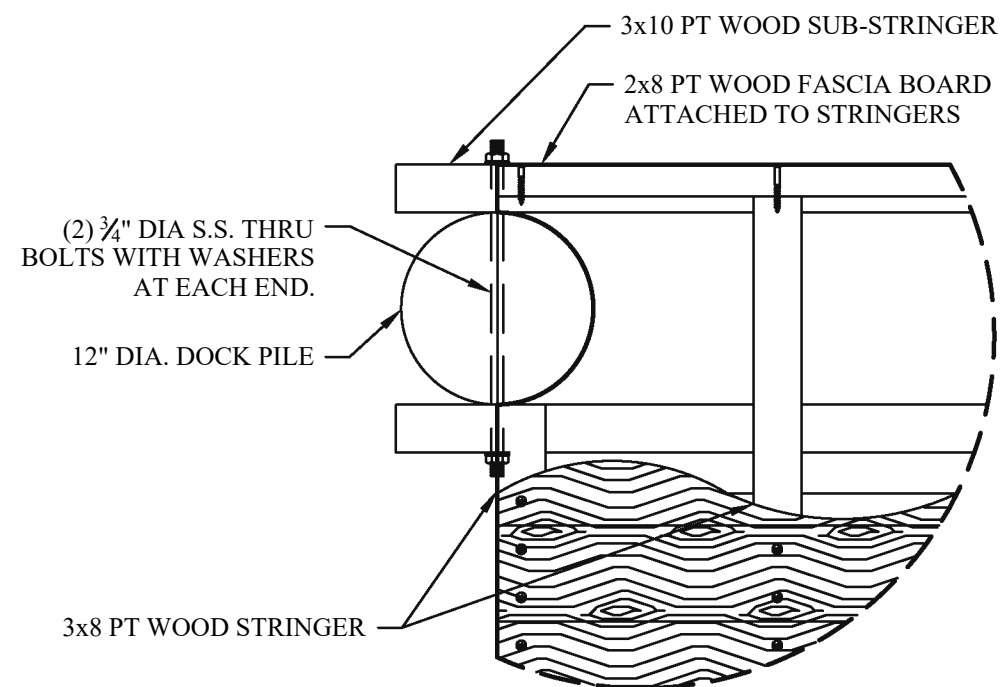
FINGER PIER FRAMING PLAN



SCALE: 3/16" = 1"



TYPICAL DOCK EDGE DETAIL 6 S-9
SCALE: 1" = 1'-0"



TYPICAL DOCK EDGE PLAN DETAIL 7 S-9
SCALE: 1" = 1'-0"

AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

CLIENT:

AUSTRAL MARINA, LLC

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Miami, FL 33125

ENVIRONMENTAL CONSULTANT:

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CONTRACTOR:

SOUTHEAST MARINE CONSTRUCTION

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Oakland Park, FL 33334

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351 S. Cypress Road, Suite 303
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PE 52733, CA 26829

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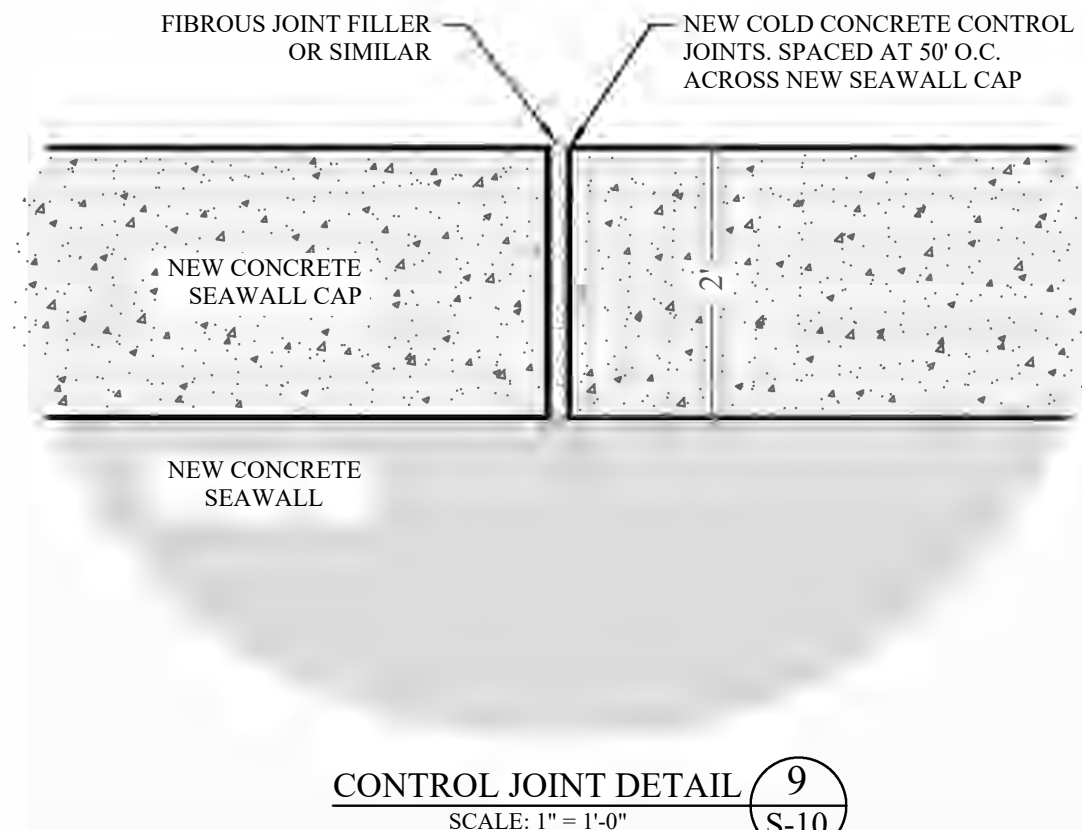
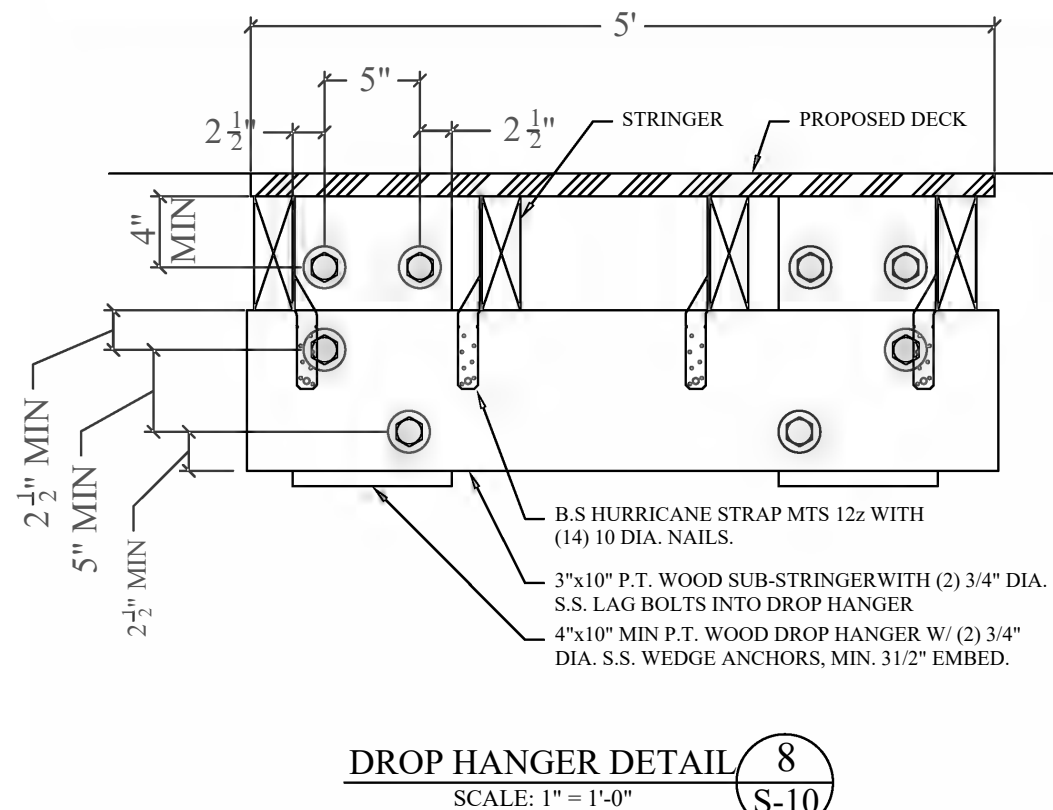
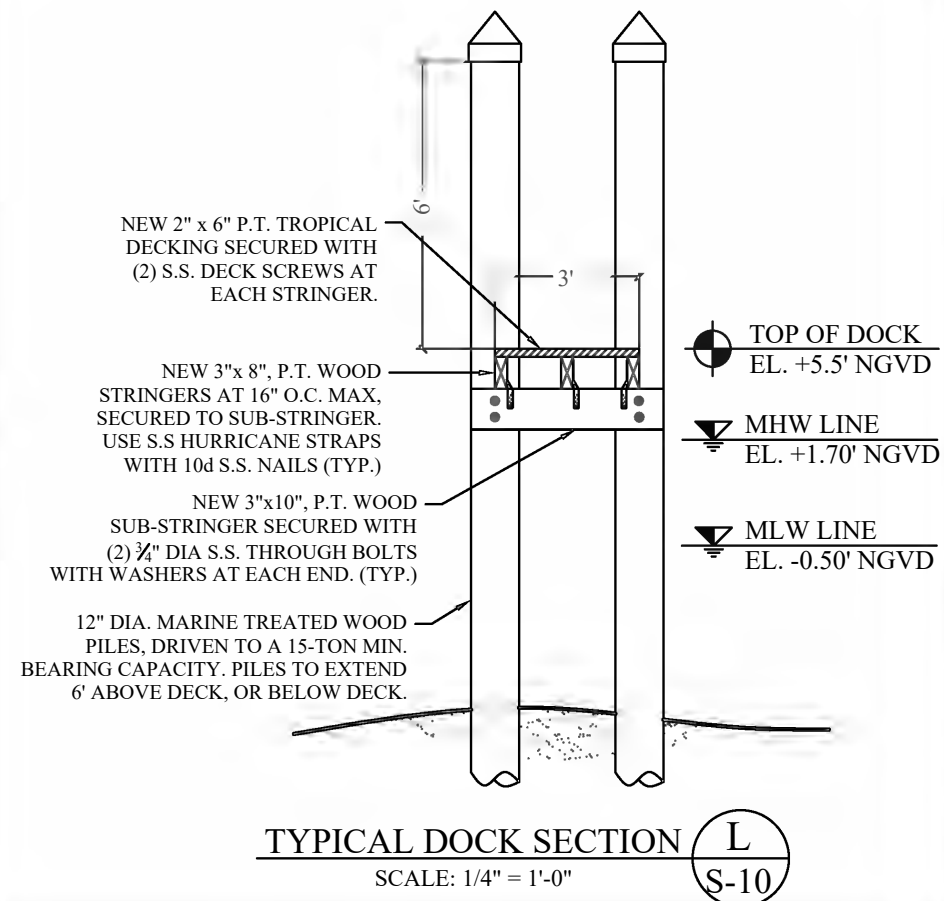
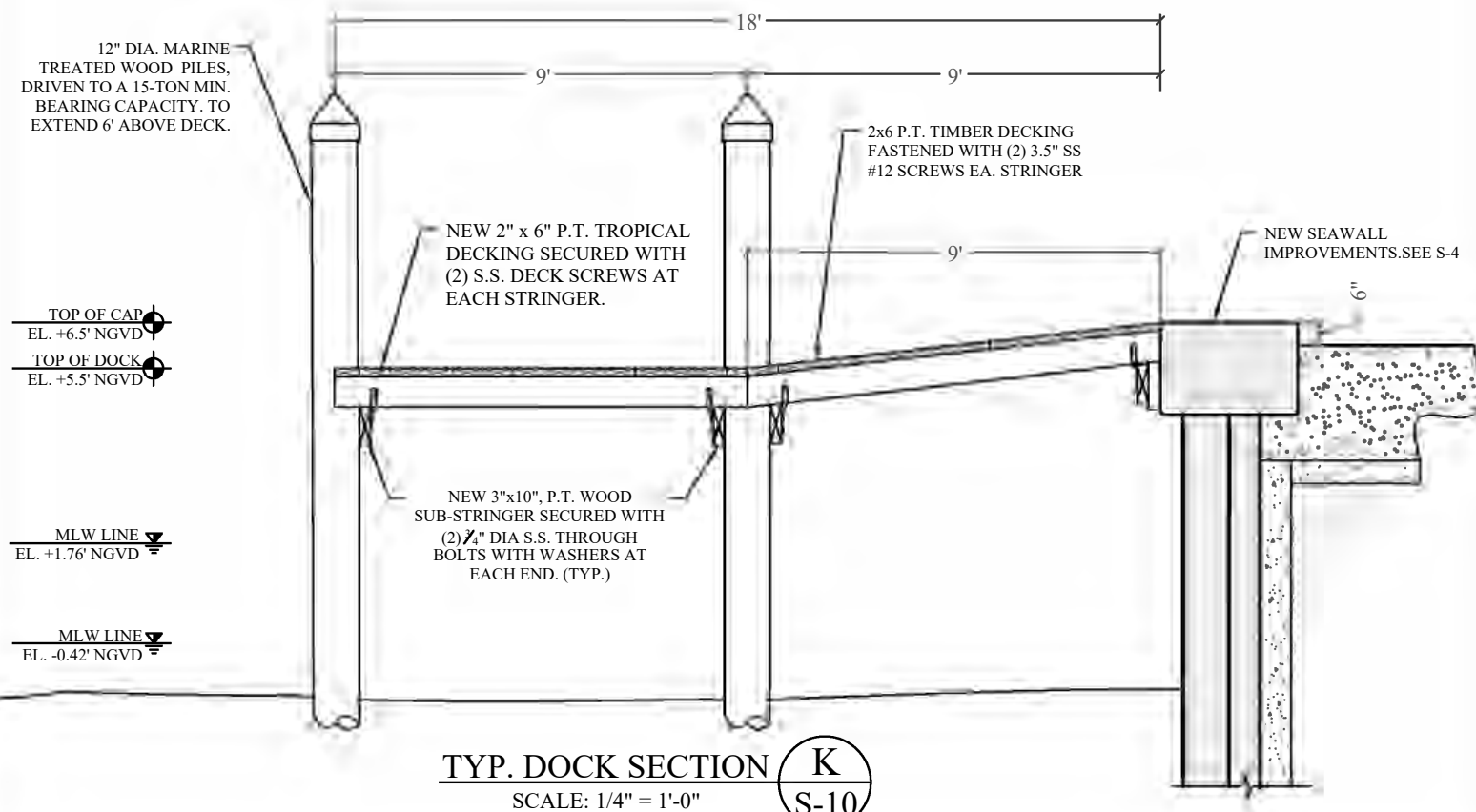
WOOD DOCK FRAMING PLAN

PERMIT DRAWINGS

PROJECT: 15-5315

SHEET NO.

S-9



AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

CLIENT:

AUSTRAL MARINA, LLC

2190 NW N River Drive
Miami, FL 33125

ENVIRONMENTAL CONSULTANT:

OCEAN CONSULTING, LLC

340 Minorca Avenue, Suite 7
Coral Gables, Florida 33134
Tel: (305) 921-9344
Fax: (305) 677-3254

CONTRACTOR:

SOUTHEAST MARINE CONSTRUCTION

404 NE 38th St
Oakland Park, FL 33334
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Fax: (954) 630-2381

PROJECT ENGINEER:

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351 S. Cypress Road, Suite 303
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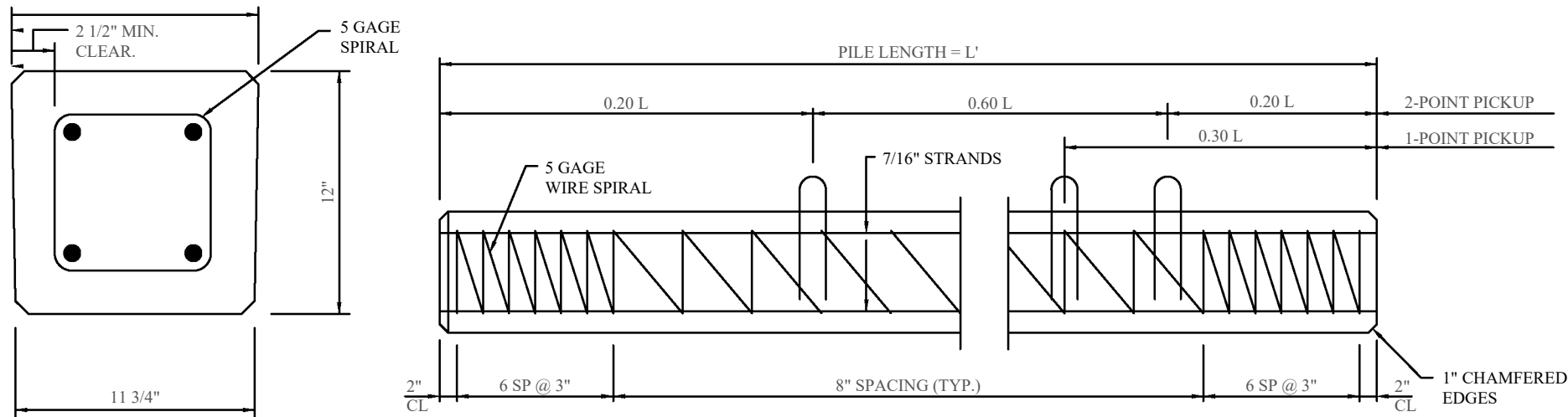
TYPICAL DOCK SECTIONS, HANGER BLOCK & CONTROL JOINT DETAILS

PERMIT DRAWINGS

PROJECT: 15-5315

SHEET NO.

S-10



PILE NOTE:

CONCRETE COMPRESIVE STRENGTH:
3000 PSI @ RELEASE
5000 PSI @ DRIVING

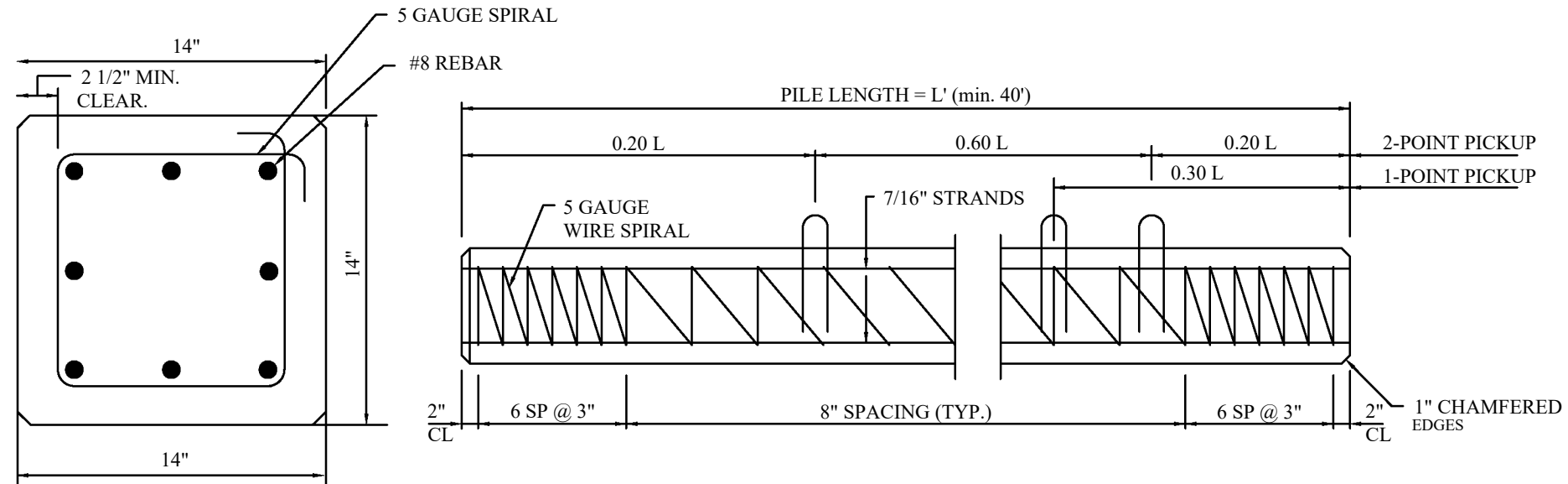
SPIRAL TO BE ASTM A-82 TIGHT
HARD-DRAWN WIRE

STRANDS - USE FOUR 7/16" (270K)
LOW RELAXATION ASTM 416-87 UNCOATED
7-WIRE STRANDS TENSIONED TO 2.33 KIPS

EACH
1-POINT PICKUP-MAXIMUM L = 50'
2-POINT PICKUP-MAXIMUM L = 62'

12"x12" CONCRETE PILE DETAIL
NOT TO SCALE

10
S-11



PILE NOTE:

CONCRETE COMPRESIVE STRENGTH:
3000 PSI @ RELEASE
5000 PSI @ DRIVING

SPIRAL TO BE ASTM A-82 TIGHT
HARD-DRAWN WIRE

STRANDS - USE EIGHT #8 REBAR
LOW RELAXATION ASTM 416-87 UNCOATED
7-WIRE STRANDS TENSIONED TO 2.33 KIPS
EACH

1-POINT PICKUP-MAXIMUM L = 50'
2-POINT PICKUP-MAXIMUM L = 62'

14"x14" CONCRETE PILE DETAIL
NOT TO SCALE

11
S-11

AUSTRAL MARINA BASIN FILL PROJECT

Miami, Florida

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John Omslaer
PE 52733, CA 26829

Issue #	Issue Date
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12"x12" & 14"x14"
CONCRETE PILE DETAIL

PERMIT DRAWINGS
PROJECT: 15-5315

SHEET NO.
S-11