



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT  
9900 SW 107<sup>TH</sup> AVENUE, SUITE 203  
MIAMI, FLORIDA 33176

October 16, 2019

Regulatory Division  
South Branch  
Miami Permits Section

## ***PUBLIC NOTICE***

Permit Application No. SAJ-2014-02918 (SP-MIB)

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: Silent Hunter Boat Yard LLC  
C/o Matt Alley  
2055 Overseas Highway  
Marathon, Florida 33050

WATERWAY AND LOCATION: The project would affect waters of the United States associated with the Atlantic Ocean. The project is located at 2055 Overseas Highway adjacent to a canal tributary to the Atlantic Ocean; legally described as Lot 1, Blk 1 & Part Lot 2 Parrish subdivision, PB 2, PG 18 in Section 9, Township 66 South, Range 32 East, Marathon, Monroe County, Florida (MM48). RE#00326400-000000

Directions to the site are as follows: Take U.S. 1 South to MM48; Project is located at 2055 Overseas Highway.

APPROXIMATE CENTRAL COORDINATES: Latitude 24.706802°  
Longitude -81.104191°

### **PROJECT PURPOSE:**

Basic: To stabilize the shoreline and to improve recreational access.

Overall: To stabilize the shoreline and to improve recreational access in Marathon, Monroe County, Florida.

EXISTING CONDITIONS: The property is located within a partially developed commercial subdivision of Marathon. The property is an active marina that supports 100 dry slips and 18 wet slips that includes a large basin and channel that leads to the open water of the Atlantic Ocean. The benthos consists of gravelly muck, sparse macroalgae, and Siderastrea radians along various sections of the existing basin and channel. The marina expansion area is vegetated with Conocarpus erectus, Metopium toxiferum,

Casuarina equisetifolia, and areas of Rhizophora mangle. No seagrass was present within the basin.

**PROPOSED WORK:** The applicant seeks authorization to conduct the following work to expand the existing marina to accommodate a total of 32 wet slips and 100 dry slips:

- 1) To construct a 3,212 square foot marina expansion consisting of four "T"-shaped docks with a 4 foot wide by 12 foot long access walkway leading a 5 foot wide by 127 foot long terminal platform connected by three 8 foot wide by 20 foot long concrete landings resulting in the placement of 6 cy of fill within a 150 square foot area in Area A & B.
- 2) To remove the existing wood dock, to replace 525 linear feet of existing seawall/dock resulting in the placement of 230 cy of fill within a 1,395 square foot area and to install 52 fender piles in Area C & D.
- 3) To install two 5 foot by 6 foot concrete travel lift extensions and construct a 5 foot wide by 60 foot long wood finger pier in Area E & H.
- 4) To repair 164 linear feet of existing dock totaling 1,545 square feet in Area F.
- 5) To construct a 276 square foot dock extension measuring 6 foot wide by 46 foot long in Area G.
- 6) To install 25 fender piles along the existing northwest section of the marina basin seawall/dock.
- 7) To install temporary floating turbidity barriers around all work areas that are in/over U.S. navigable waters.

**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: Prior to the start of construction, turbidity curtains will be deployed to isolate the construction site from ambient waters. The applicant proposes to avoid 111,840 square foot area of remaining onsite wetlands.

**COMPENSATORY MITIGATION** – The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment: If it is determined that the issuance of a DA permit is appropriate, mitigation will be required. The applicant has indicated that the mitigation proposal will be based on the Keys Restoration Fund (KRF). Time lag and risk will be a required component of any mitigation requirement.

#### **CULTURAL RESOURCES:**

The Corps is not aware of any known historic properties within the permit area. By copy of this public notice, the Corps is providing information for review. Our final determination relative to historic resource impacts is subject to review by and coordination with the State Historic Preservation Officer and those federally recognized tribes with concerns in Florida and the Permit Area.

## ENDANGERED SPECIES:

The real estate parcel number is 00326400-000000 and is on the U.S. Fish and Wildlife Service Suitable Habitat List, dated August 2010, for Monroe County for the Eastern indigo snake.

The Corps has determined the proposed project may affect, but is not likely to adversely affect ("MANLAA") the swimming green sea turtles (*Chelonia mydas*), loggerhead sea turtles (*Caretta caretta*), hawksbill sea turtles (*Eretmochelys imbricata*), Kemp's ridley sea turtles (*Lepidochelys kempii*), leatherback sea turtles (*Dermochelys coriacea*), the smalltooth sawfish (*Pristis pectinata*), and Nassau grouper (*Epinephelus striatus*) species. A no effect determination was reached on *Acorpora* sp. and its designated critical habitat and corals species; (*Dendrogyra cylindrus*, *Orbicella annularis*, *Orbicella faveolata*, *Orbicella franksi*, and *Mycetophyllia ferox*). The Corps will request National Marine Fisheries Service concurrence with this determination pursuant to Section 7 of the Endangered Species Act.

**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 6,865 square feet of wetlands and submerged bottom utilized by various life stages of marina species. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or Federally managed fisheries in the Florida Keys. 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 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 Southwest 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, Maria Bezanilla, in writing at the Miami Permits Section, 9900 Southwest 107th Avenue, Suite 203, Miami, Florida 33176; by electronic mail at [Maria.I.Bezanilla@usace.army.mil](mailto:Maria.I.Bezanilla@usace.army.mil); by facsimile transmission at (305) 526-7184; or, by telephone at (305) 779-6057.

**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.

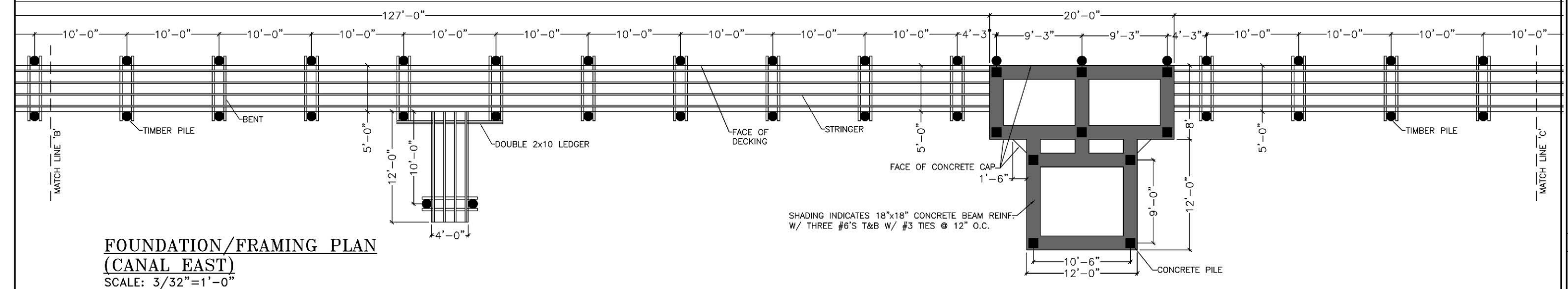
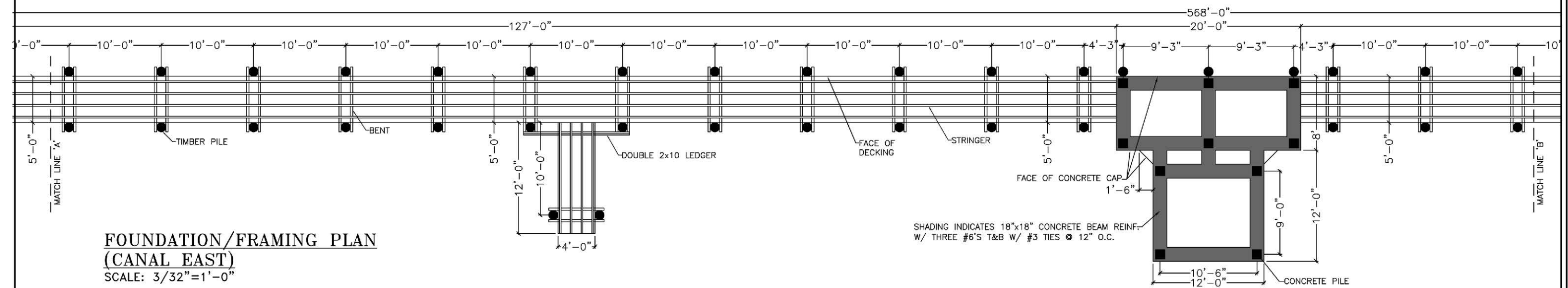
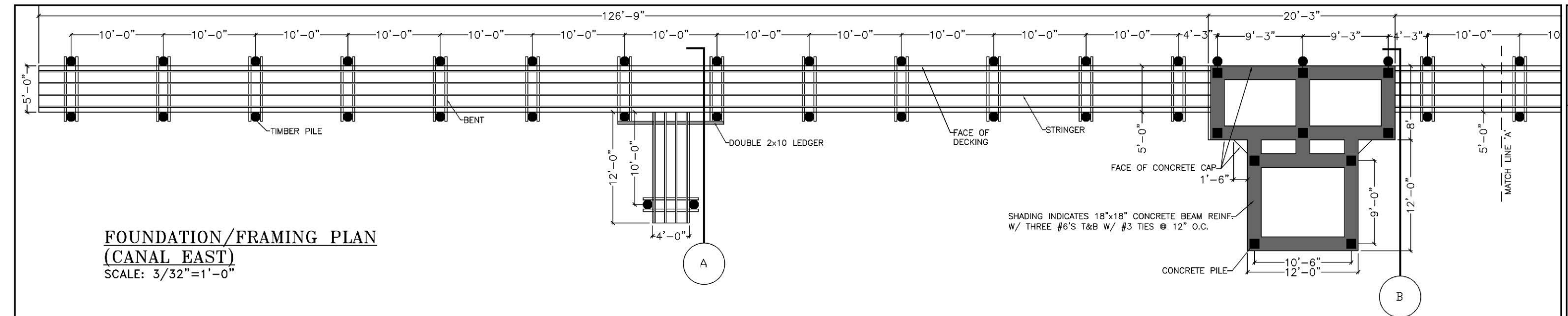
REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.











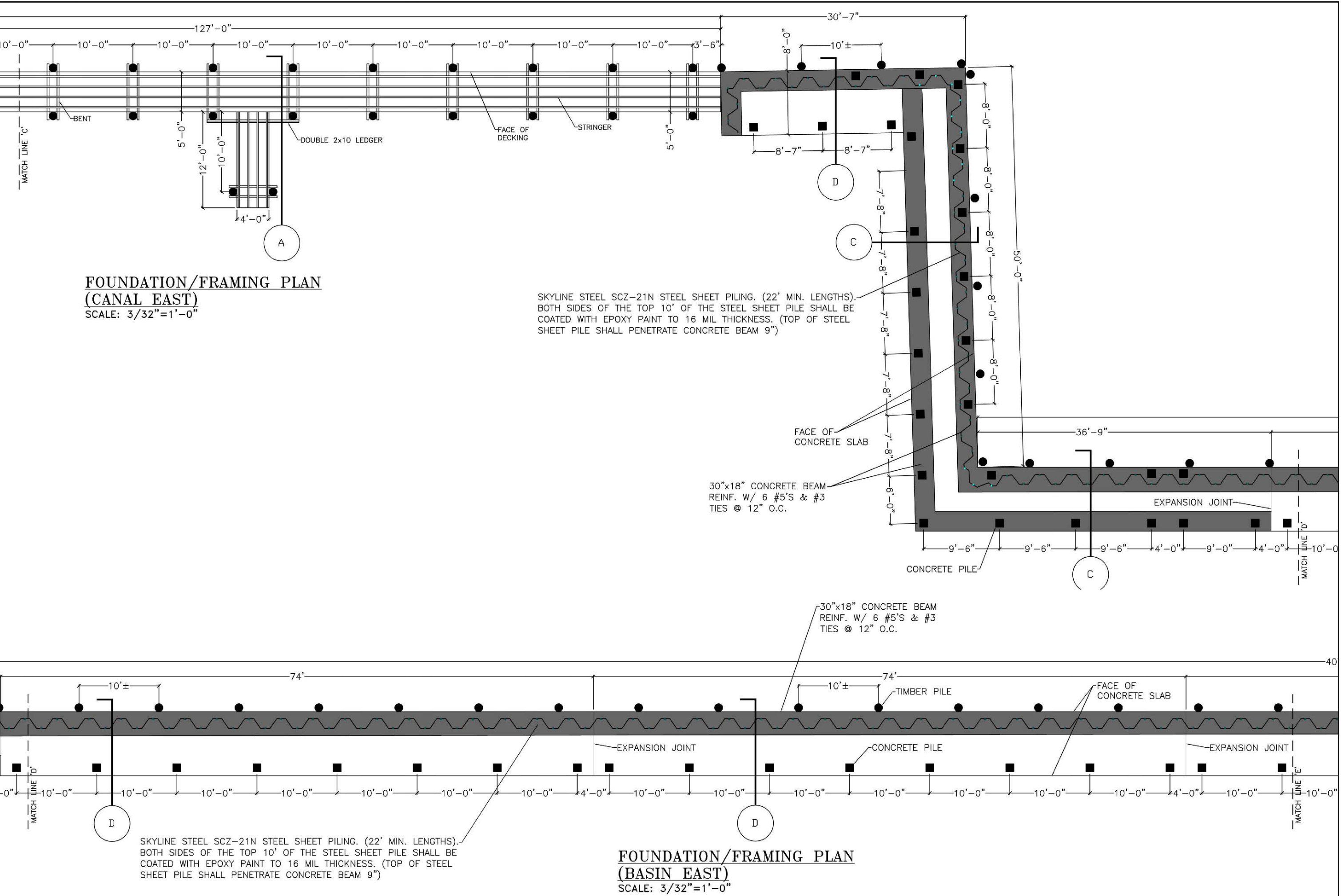
REVISIONS:	

CERTIFIED BY:  
SEAN KIRWAN, P.E. #57506

DOCKING FACILITY MODIFICATIONS  
SILENT HUNTER BOAT YARD LLC  
MARATHON, MONROE COUNTY, FL

**GLEN BOE AND ASSOCIATES, INC. # 4061**  
5800 OVERSEAS HIGHWAY, SUITE 4, MARATHON, FL 33050  
Telephone (305) 743-9121  
Email: glenboe@bellsouth.net

DATE: 09/25/19



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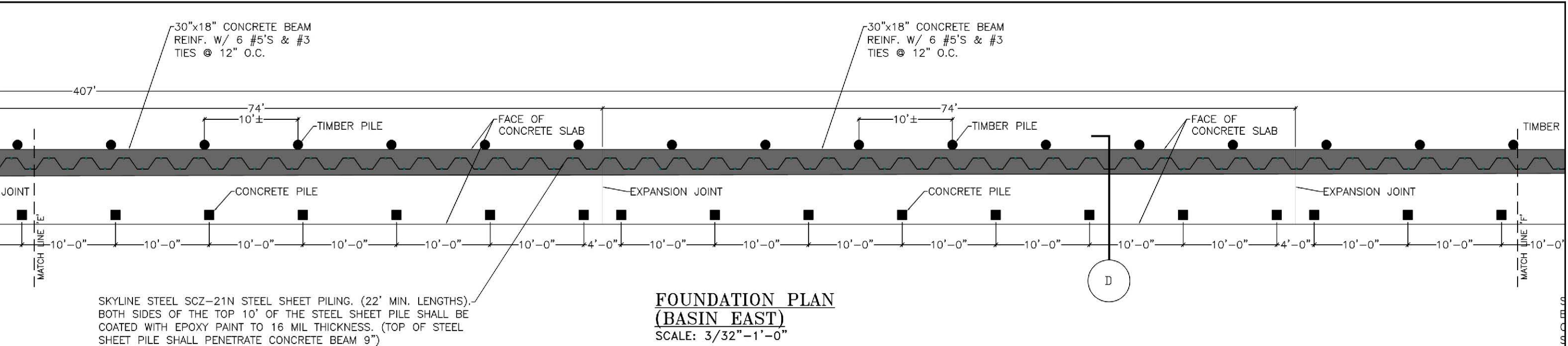
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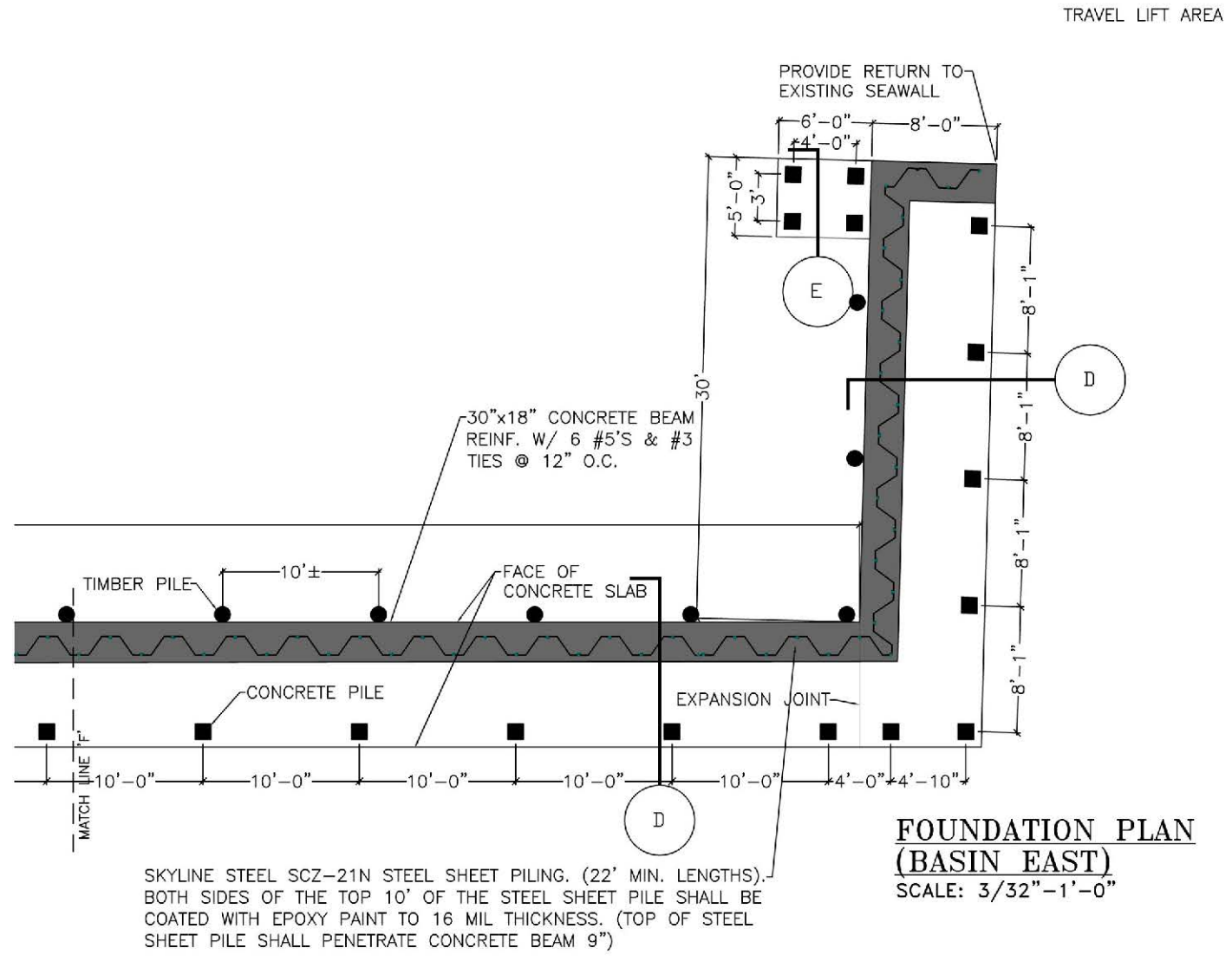
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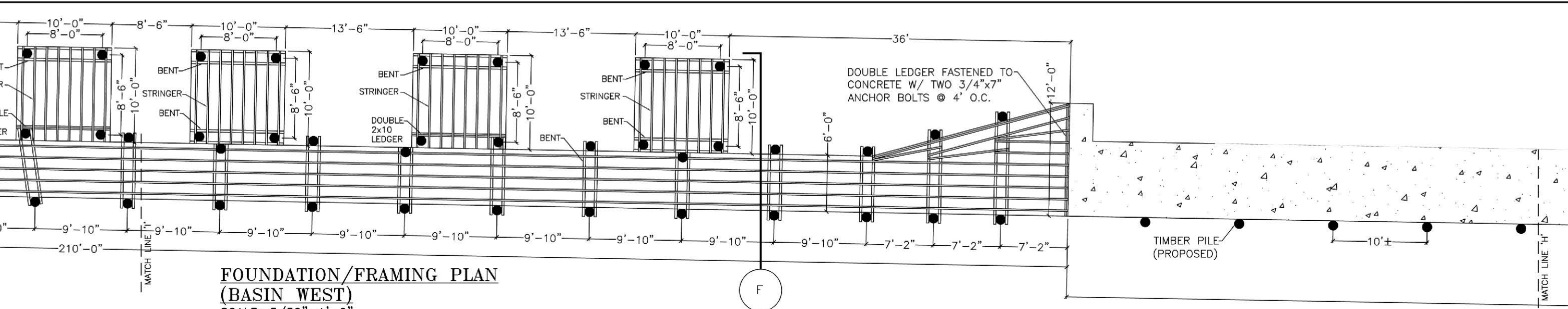
**FOUNDATION PLAN**  
**(BASIN EAST)**  
SCALE: 3/32"=1'-0"



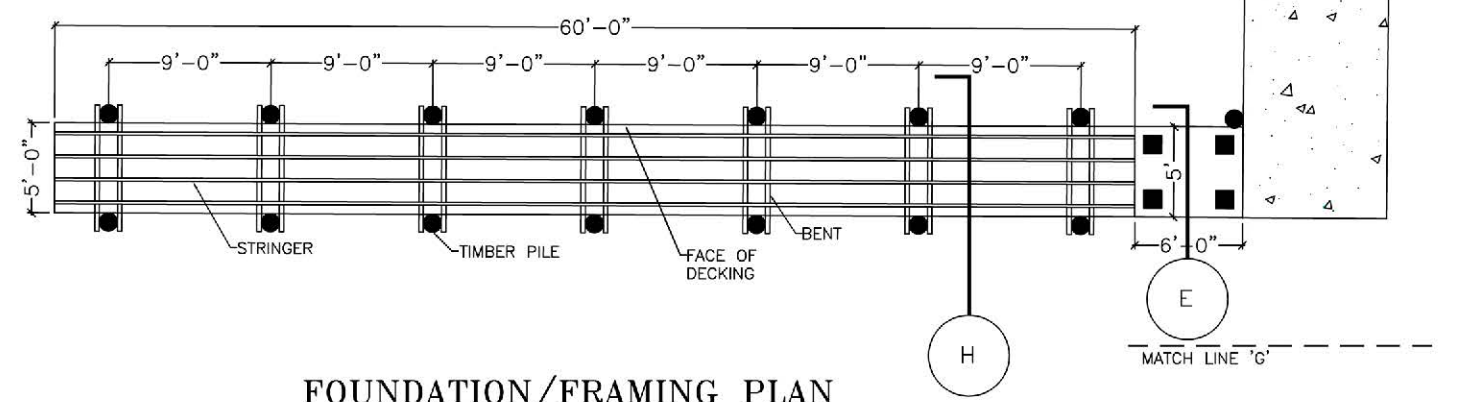
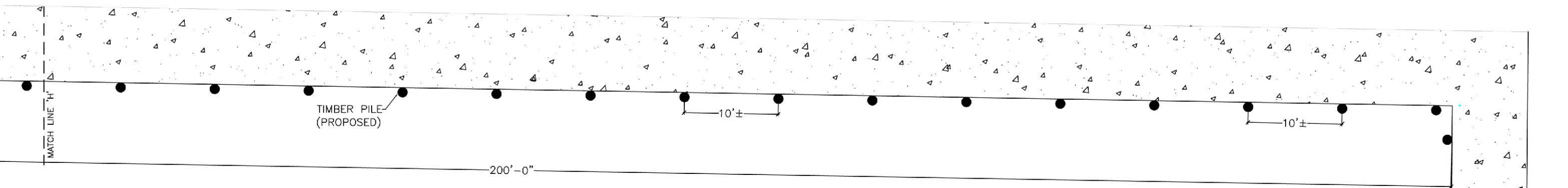
**FOUNDATION PLAN**  
**(BASIN EAST)**  
SCALE: 3/32"=1'-0"

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DATE: 09/25/19				
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SHEET 5 OF 12				





**FOUNDATION/FRAMING PLAN  
(BASIN WEST)**  
SCALE: 3/32"=1'-0"



**FOUNDATION/FRAMING PLAN  
(BASIN WEST)**  
SCALE: 3/32"=1'-0"

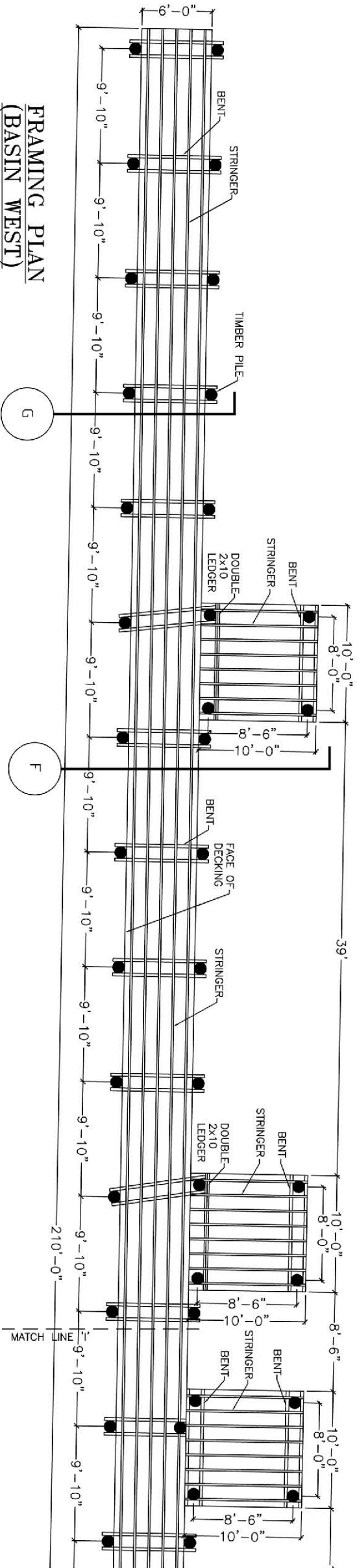
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FRAMING PLAN  
(BASIN WEST)  
SCALE: 3/32"=1'-0"

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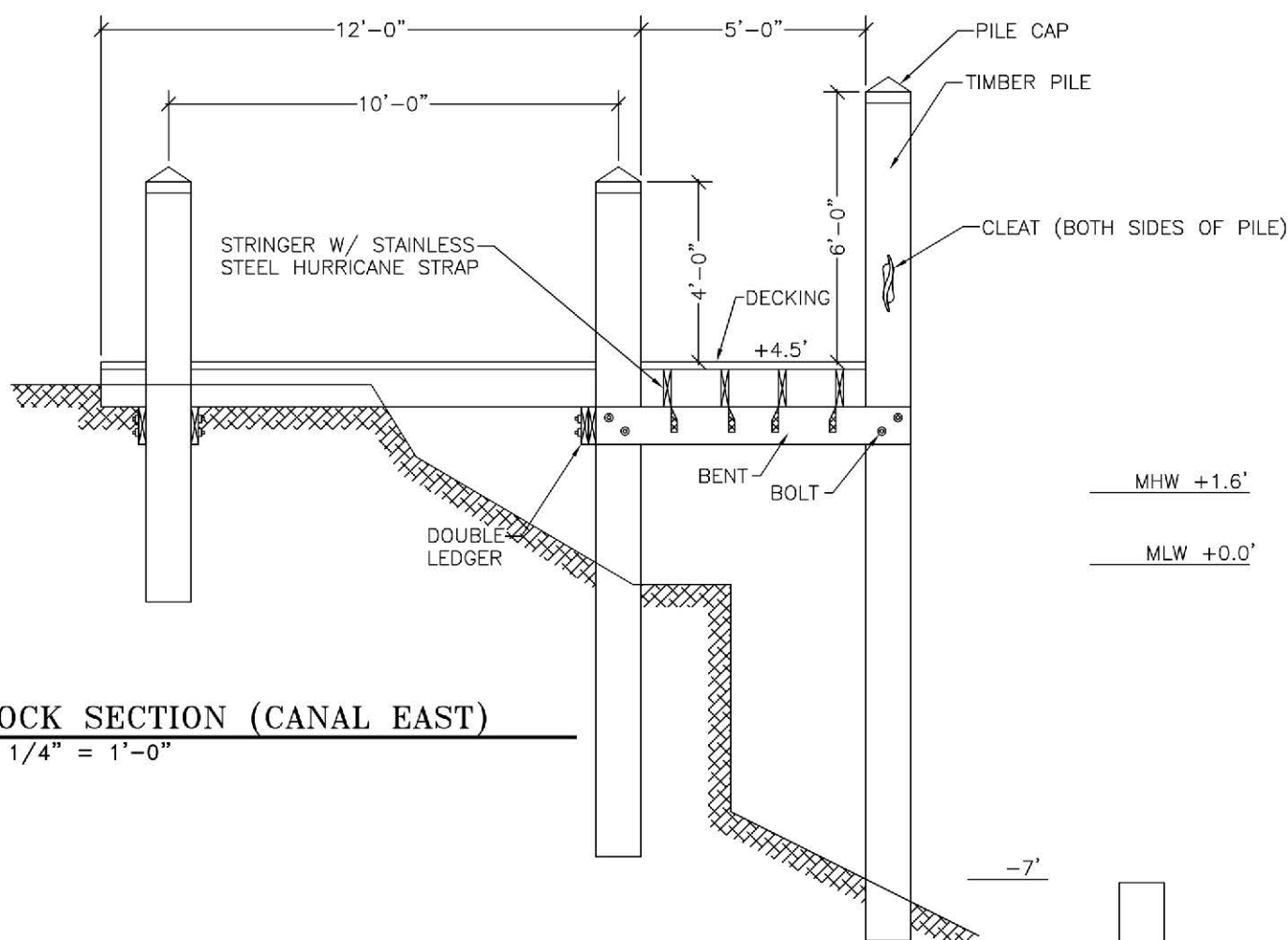
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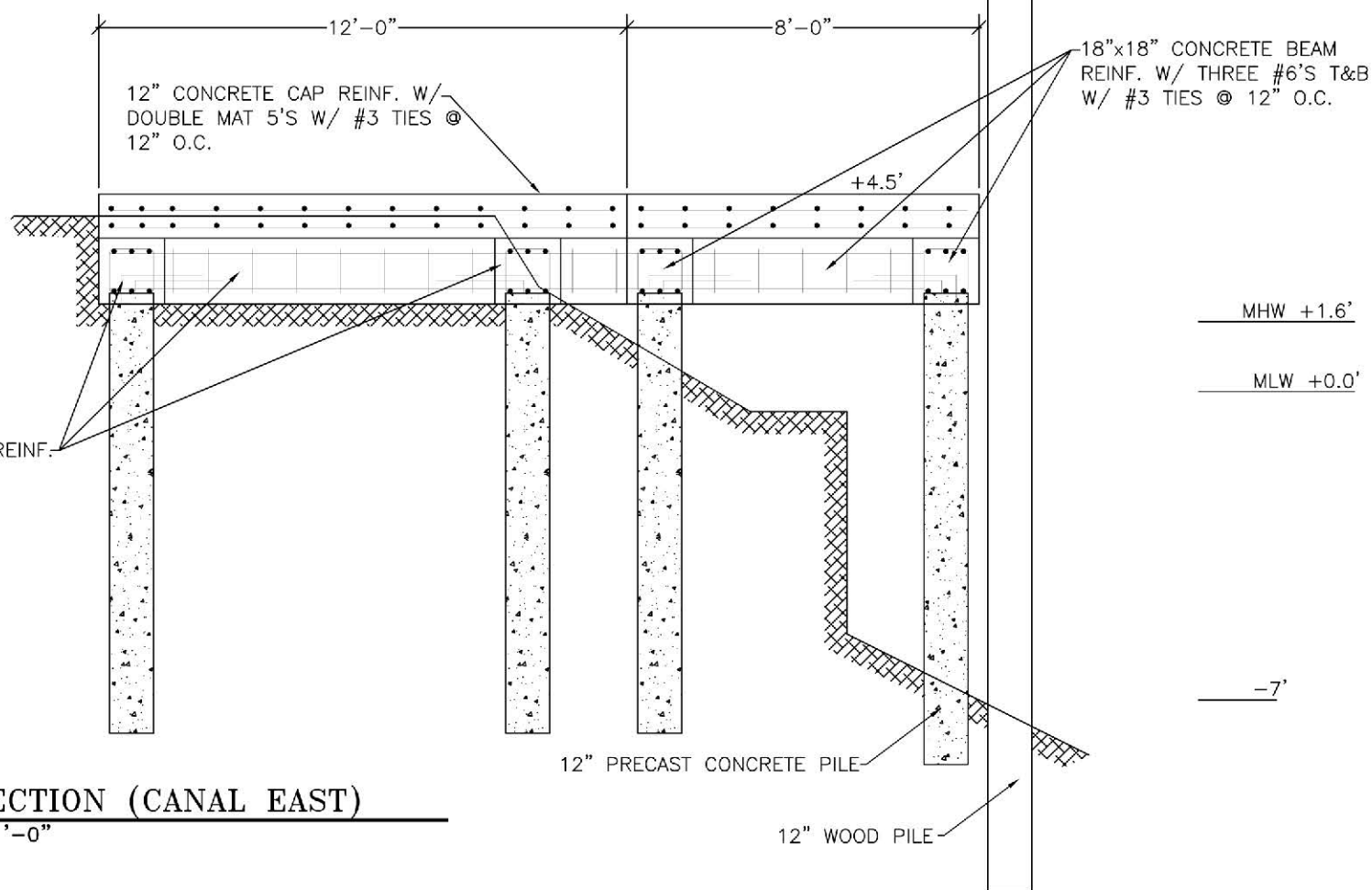
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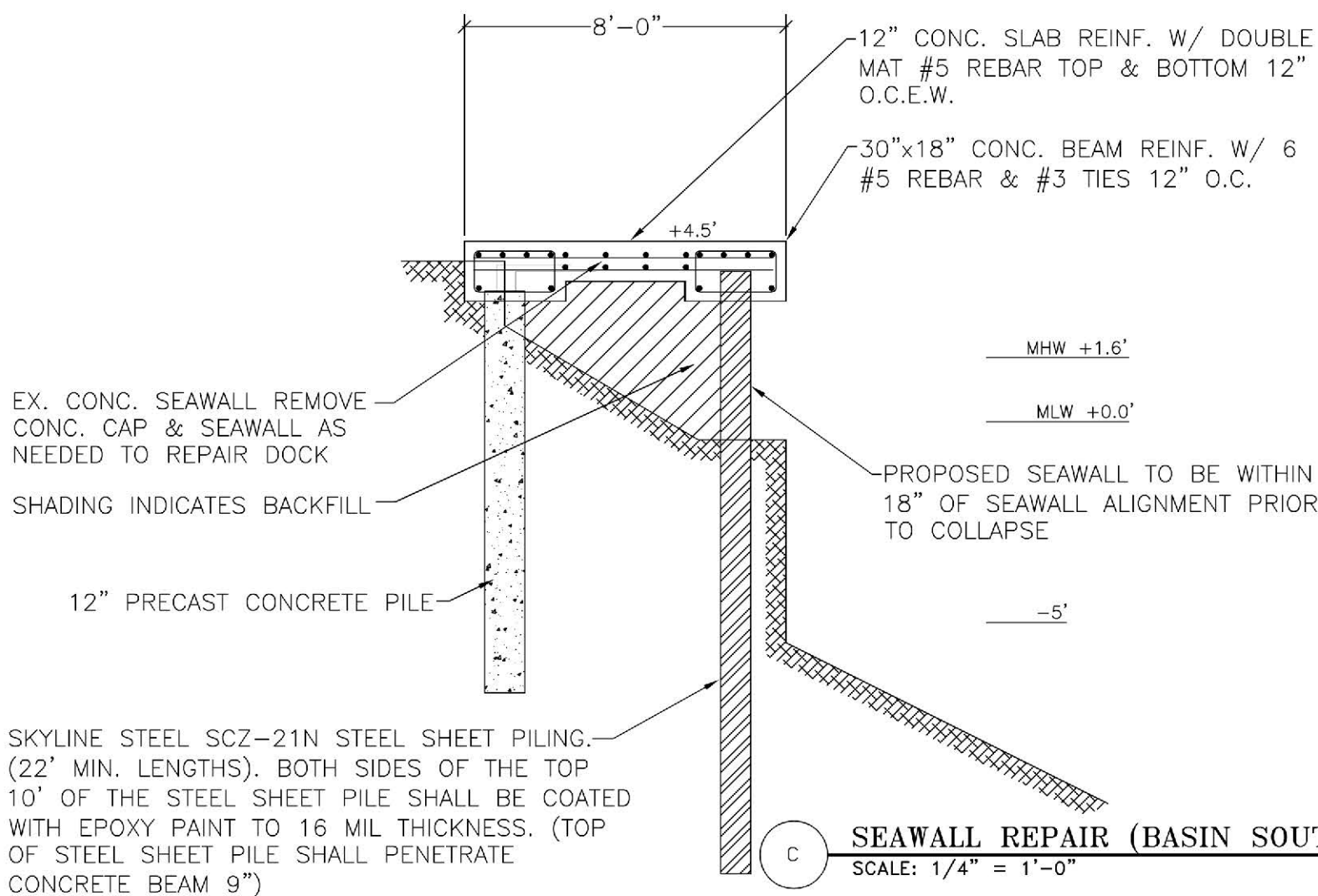




**A 5' DOCK SECTION (CANAL EAST)**  
SCALE: 1/4" = 1'-0"



**B 8' DOCK SECTION (CANAL EAST)**  
SCALE: 1/4" = 1'-0"



**C SEAWALL REPAIR (BASIN SOUTH)**  
SCALE: 1/4" = 1'-0"

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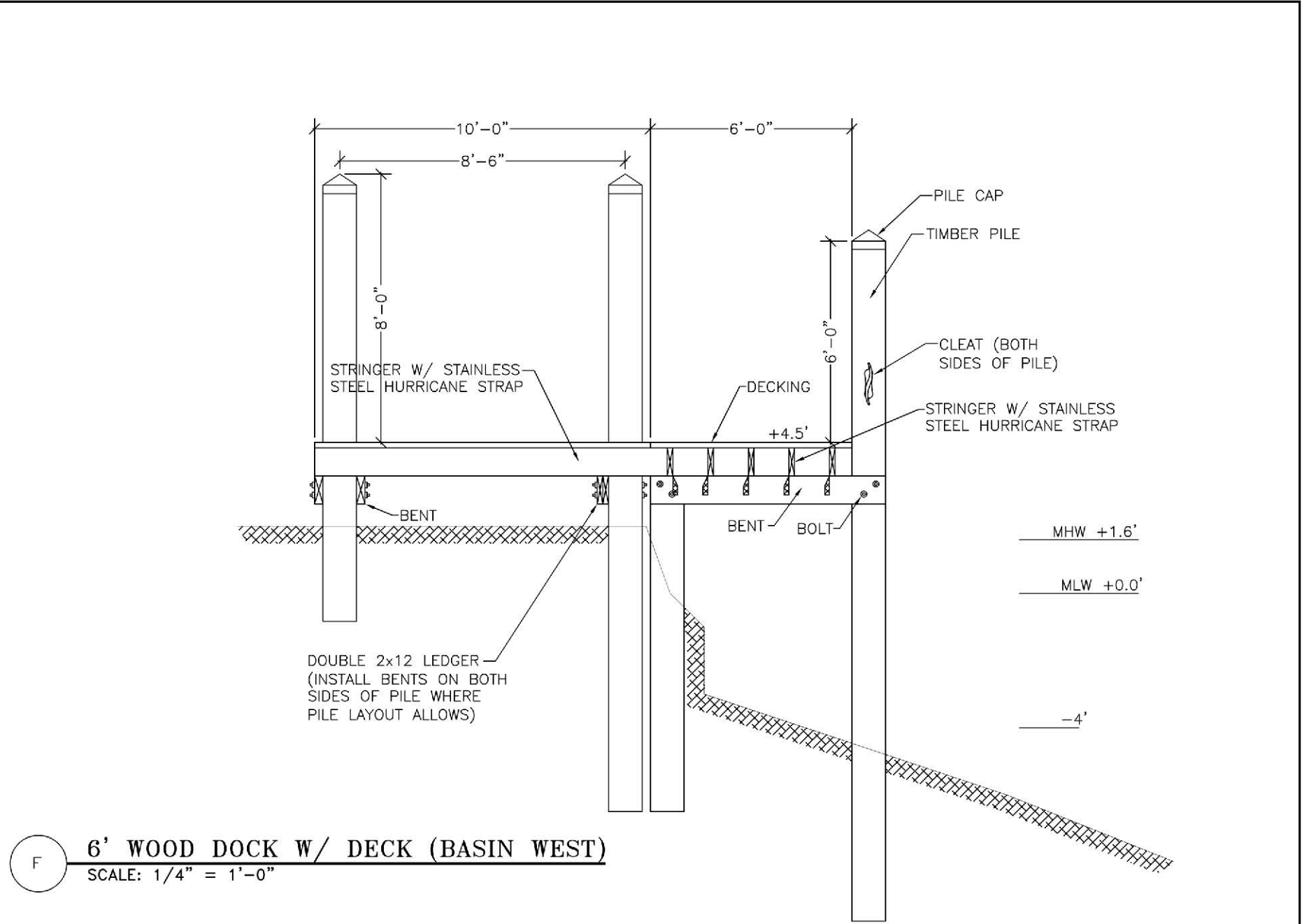
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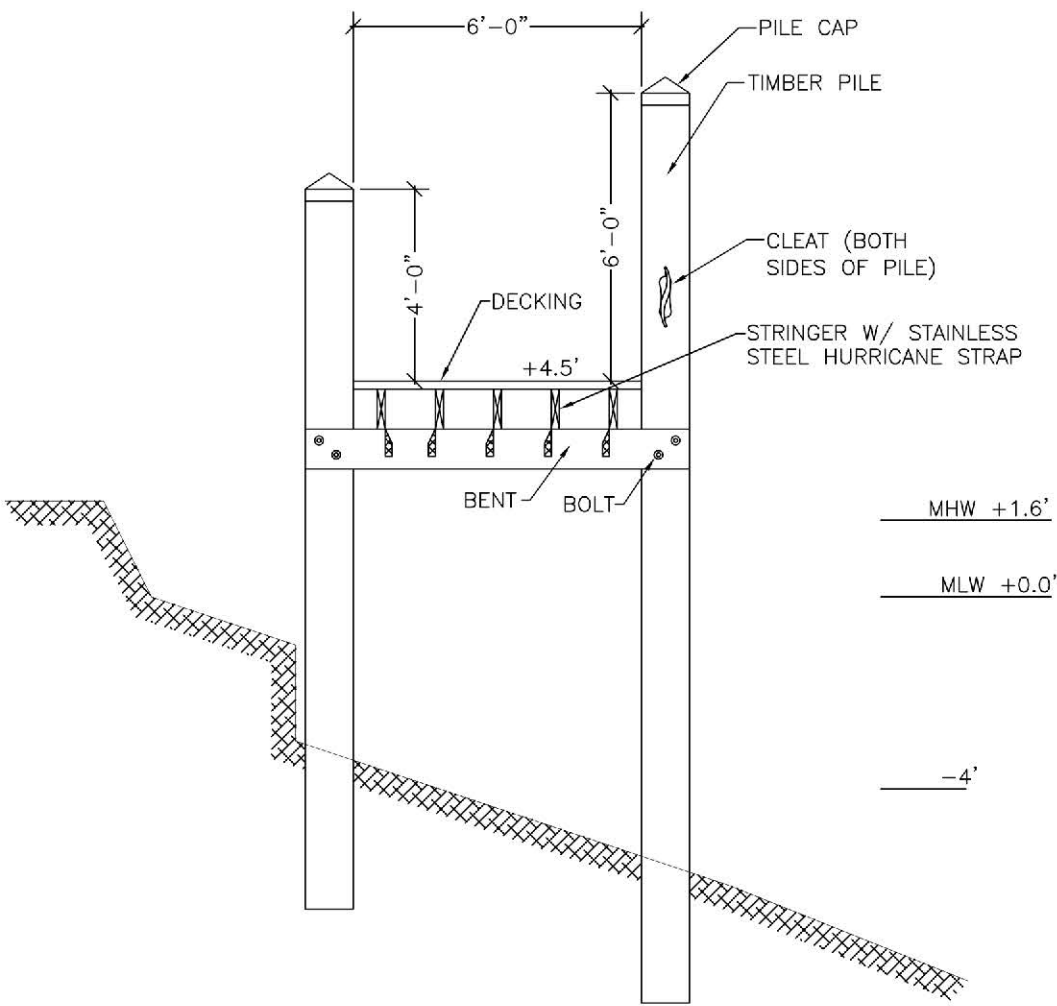
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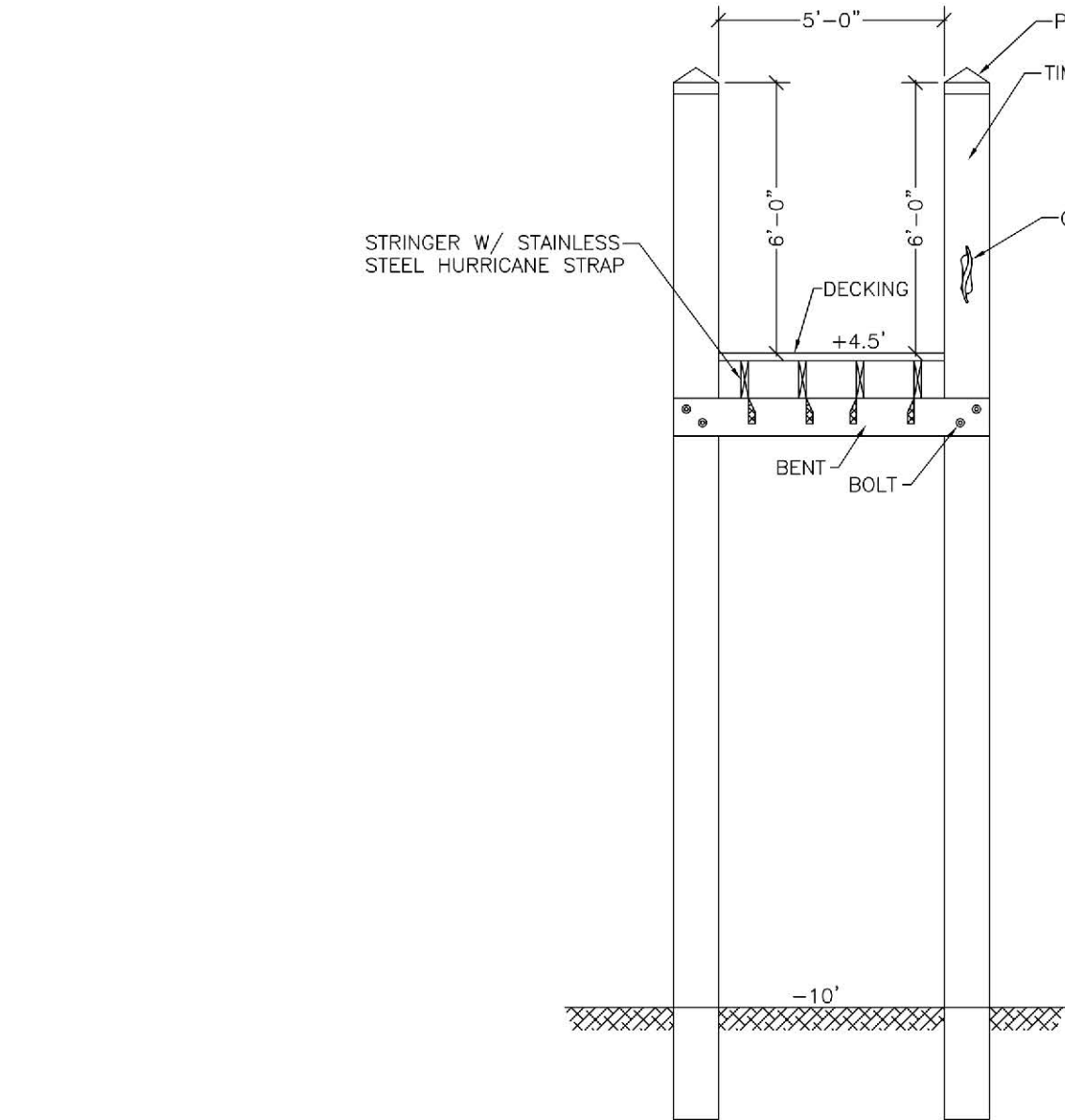




F 6' WOOD DOCK W/ DECK (BASIN WEST)  
SCALE: 1/4" = 1'-0"



G 6' WOOD DOCK (BASIN WEST)  
SCALE: 1/4" = 1'-0"



H 5' WOOD DOCK (ADJ. TRAVEL LIFT)  
SCALE: 1/4" = 1'-0"

DOCKING FACILITY MODIFICATIONS SILENT HUNTER BOAT YARD LLC MARATHON, MONROE COUNTY, FL		GLEN BOE AND ASSOCIATES, INC. # 4061 5800 OVERSEAS HIGHWAY, SUITE 4, MARATHON, FL 33050 Telephone (305) 743-9121 Email: glenboe@bellsouth.net	DATE: 09/25/19	11
REVISIONS:		CERTIFIED BY: SEAN KIRWAN, P.E. #57506		

**CONSTRUCTION NOTES:**  
1. CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS PRIOR TO COMMENCING WORK. THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE ARMY CORPS OF ENGINEERS & LOCAL REGULATIONS SHALL GOVERN ALL WORK.  
2. WORK SHOWN ON DRAWINGS IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2017. FOLLOW ALL APPLICABLE PROVISIONS FOR ALL PHASES OF CONSTRUCTION. THE PROPOSED STRUCTURE(S) IS DESIGNED FOR A MINIMUM LIVE LOAD OF 100 PSF/DEAD LOAD 10 PSF, 180 MPH (3 SECOND GUST), EXPOSURE D, RISK CATEGORY 1, ASCE 7-10.  
3. CONTRACTOR SHALL ADHERE TO THE STANDARD MANATEE CONSTRUCTION CONDITIONS (LATEST EDITION). IF NEEDED, THE CONTRACTOR CAN CONTACT THE ARMY CORPS OF ENGINEERS OR THIS OFFICE TO OBTAIN A COPY OF THE STANDARD MANATEE CONSTRUCTION CONDITIONS.  
4. BEST MANAGEMENT PRACTICES, INCLUDING THE USE OF TURBIDITY SCREENS, ARE REQUIRED TO ISOLATE THE CONSTRUCTION AREA FROM THE ADJACENT WATERS. CONTRACTOR SHALL INSTALL TURBIDITY SCREENS AROUND THE IMMEDIATE PROJECT AREA PRIOR TO CONSTRUCTION. THE TURBIDITY SCREENS REMAIN IN PLACE UNTIL WATER QUALITY CONDITIONS RETURN TO PRECONSTRUCTION CONDITIONS. WATER QUALITY MONITORING SHALL ADHERE TO STATE REGULATIONS.  
5. ELECTRIC & WATER (DESIGN PROVIDED BY OTHERS) SHALL BE PROVIDED AS DIRECTED BY OWNER. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL PROPOSED UTILITIES WITH OWNER PRIOR TO CONSTRUCTION.  
6. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS & WATER DEPTHS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.  
7. THE STRUCTURAL INTEGRITY OF THE COMPLETED STRUCTURE DEPENDS ON INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.  
8. EXERCISE EXTREME CARE AND CAUTION WHEN EXCAVATING AND FILLING ADJACENT TO EXISTING STRUCTURES. UNDER NO CIRCUMSTANCES SHALL THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURES BE IMPAIRED IN ANY WAY BY CONSTRUCTION OPERATIONS AND PROCEDURES. DO NOT EXCAVATE OR DISTURB SOIL ADJACENT TO OR BENEATH EXISTING FOOTINGS.  
9. CONTRACTOR SHALL COORDINATE INSTALLATION OF CLEATS, LADDERS, PILE CAPS, AND OTHER DOCK ACCESSORIES WITH OWNER PRIOR TO CONSTRUCTION. ALL DOCK ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER’S SPECIFICATIONS. STAINLESS STEEL HARDWARE SHALL BE USED FOR ALL CONNECTIONS TO DOCK.  
10. FOR OPEN WATER DOCKS PROVIDE REFLECTORS ON EACH SIDE OF WALKWAY EVERY 50’ AND ON EACH END OF THE TERMINAL PLATFORM.

**PILES:**  
CONCRETE PILES SHALL BE COMMERCIAL GRADE 12"x12" PRESTRESSED CONCRETE PILES W/ FOUR 0.6" DIAMETER 270 LOW-RELAXATION STRAND @ 44 KIPS W/ W3.4 WIRE SPIRAL TIES. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 6000 PSI. CONCRETE SHALL BE FDOT CLASS V SPECIAL. ALL REINFORCING STEEL, EXCEPT SPIRAL TIES, SHALL BE ASTM A615, GRADE 60. SPIRAL TIES SHALL BE HARD DRAWN BASIC WIRE IN ACCORDANCE WITH ASTM A-82. EACH WRAP OF SPIRAL SHALL BE TIED TO AT LEAST TWO CORNER STRANDS.  
ALTERNATE STRAND PATTERNS – EIGHT 7/16" DIAMETER 270 LOW-RELAXATION STRAND @ 23.3 KIPS  
EIGHT 1/2" DIAMETER 250 STRESS RELIEVED STRAND @ 24.1 KIPS  
TWELVE 3/8" DIAMETER 270 LOW-RELAXATION STRAND @ 17.2 KIPS  
TWELVE 3/8" DIAMETER 250 STRESS RELIEVED STRAND @ 15.6 KIPS

TIMBER PILES SHALL BE ROUND SOUTHERN PINE AND SHALL CONFORM TO ASTM D 25, UNUSED, CLEAN PEELED, UNIFORMLY TAPERED, ONE PIECE FROM BUTT TO TIP. PILES SHALL BE PRESSURE TREATED IN CONFORMANCE WITH AWPA C3 AND C18 FOR MARINE PILES. THE MINIMUM BUTT DIAMETER SHALL BE 10 INCHES, MEASURED AT A SECTION 3 FEET FROM THE END. FOR PILES UP TO 50 FEET IN LENGTH THE MINIMUM TIP DIAMETER SHALL BE 8 INCHES. WRAP TIMBER PILES IN IMPERMEABLE PVC, PLASTIC, OR SIMILAR MATERIAL FROM AT LEAST ONE FOOT BELOW THE MUD LINE TO AT LEAST ONE FOOT ABOVE THE MEAN HIGH WATER LINE.

PILES SHALL BE SET IN PREDRILLED OR PREPUNCHED HOLES AND DRIVEN TO PENETRATE FIRM ROCK 7’ MIN.

A STRAIGHT LINE DRAWN FROM THE CENTER OF THE BUTT TO THE CENTER OF THE TIP SHALL NOT, AT ANY POINT, FALL FURTHER AWAY FROM THE CENTER OF THE PILE THAN A DISTANCE EQUAL TO 1% OF THE LENGTH OF THE PILE.

PILES SHALL BE SPACED @ MAXIMUM OF 10’ O.C. UNLESS OTHERWISE SHOWN.

DO NOT DRIVE PILES WITHIN 20 FEET OF CONCRETE LESS THAN SEVEN DAYS OLD.

RE-DRIVE ANY PILE WHICH IS RAISED DURING DRIVING OF ADJACENT PILES, TO THE ORIGINAL TIP ELEVATION.

CONTRACTOR SHALL INVESTIGATE ANY SUDDEN DECREASE IN DRIVING RESISTANCE FOR POSSIBLE BREAKAGE OF THE PILE. IF SUDDEN DECREASE IN DRIVING RESISTANCE CANNOT BE CORRELATED TO BORING DATA OR SOME INCIDENT IN THE DRIVING, AND IF THE PILE CANNOT BE INSPECTED, SUCH DECREASE IN DRIVING RESISTANCE MAY BE CAUSE FOR REJECTION OF THE PILE.

HEIGHT OF WOOD PILES SHALL BE FIELD DETERMINED BY OWNER. CUT OFF PILES AT TOP ELEVATION DIRECTED BY THE OWNER. REPLACE OR REPAIR PILES WHICH ARE DAMAGED WHEN CUT OFF.

CUT OFF CONCRETE PILES WITHIN TO PROVIDE A MINIMUM OF 3" EMBEDMENT INTO CONCRETE CAP OR CONCRETE BEAM. PROVIDE A MINIMUM 30" SPLICE FOR ALL STRANDS.

PILES SHALL DEVIATE FROM PLUMB AND ANGLE OF BATTER NO MORE THAN ¼ INCH PER FOOT OF PILE LENGTH, BUT NOT MORE THAN 6 INCHES OVERALL. PILES SHALL NOT DEVIATE FROM LOCATION OF PILE TOP MORE THAN 6 INCHES.

TIMBER PILES NOT MEETING ASTM D25 REQUIREMENTS WILL BE REJECTED. REMOVE SUCH PILES FROM THE SITE AND REPLACE WITH SOUND PILES. PILES BROKEN UNDER DRIVING STRESSES MAY BE CUT OFF AND LEFT IN PLACE IF APPROVED BY THE DESIGN ENGINEER FOR THE LOCATION. OTHERWISE THEY SHALL BE EXTRACTED AND REMOVED FROM THE SITE.

REMOVE CUTOFF SECTIONS OF PILES FROM THE SITE AND LEGALLY DISPOSE.

**LUMBER, DECKING, & FASTENERS:**  
ALL BENTS AND LEDGERS 8’ AND LONGER SHALL BE SOUTHERN PINE NO. 1. LUMBER SHALL BE PRESSURE TREATED PER AWPA UC4B SPECIFICATIONS. ALL OTHER BENTS, STRINGERS, LEDGERS, AND NAILERS SHALL BE SOUTHERN PINE NO. 2. MINIMUM RETENTION OF CCA SHALL BE 0.60 POUNDS/CUBIC FOOT.

ALL DECKING SHALL BE SOUTHERN PINE NO. 1 WITH ROUNDED EDGES. LUMBER SHALL BE PRESSURE TREATED. MINIMUM RETENTION OF ACQ SHALL BE 0.40 POUNDS/CUBIC FOOT. ATTACH DECKING TO EACH STRINGER WITH TWO #10 3" STAINLESS STEEL DECK SCREWS AT EACH CONNECTION POINT. PRESSURE TREATED DECKING MAY BE SUBSTITUTED WITH SYNTHETIC DECKING OR FIBERGLASS GRATING AS DIRECTED BY OWNER. SYNTHETIC DECKING & FIBERGLASS GRATING SHALL BE CAPABLE OF SUPPORTING THE LIVE LOAD & DEAD LOAD LISTED ABOVE AND BE INSTALLED PER MANUFACTURER’S SPECIFICATIONS.

STRINGERS: 2x10 (Fb=800 MIN.) @ 16" CENTERS MAX.)(UNLESS OTHERWISE SHOWN)  
BENTS: 4’ SECTIONS DOUBLE 2X10 OR 3x10 NO. 2 (Fb=800 MIN.) W/ ¾" BOLTS  
5’ SECTIONS DOUBLE 2X10 OR 3x10 NO. 2 (Fb=800 MIN.) W/ ¾" BOLTS  
6’ SECTIONS DOUBLE 2X10 OR 3x10 NO. 2 (Fb=800 MIN.) W/ ¾" BOLTS  
10’ SECTIONS DOUBLE 2X12 OR 3x12 NO. 1 (Fb=1,000 MIN.) W/ 1" BOLTS

DECKING: 2x6 (1/2" SPACING) (Fb=1,350 MIN.)

ATTACH BENTS TO PILING WITH TWO 3/4" OR 1" STAINLESS STEEL BOLTS (SEE ABOVE FOR BOLT SIZE), WASHERS, AND NUT AT EACH CONNECTION POINT. BORE HOLES SHALL BE 1/16 INCH GREATER IN DIAMETER THAN THE BOLT. UPON COMPLETION OF THE INSTALLATION, CHECK ALL NUTS FOR TIGHTNESS. PROVIDE BITUMINOUS PAINT, CAULK, OR SIMILAR IF NEEDED TO PREVENT DISSIMILAR METAL CONTACT.

ATTACH EACH STRINGER TO EACH BENT WITH STAINLESS STEEL STRAPS AT EACH CONTACT POINT. PROVIDE SIMPSON STRONG-TIE LTS12, ALPINE MTS12, OR APPROVED EQUAL. ALL CONNECTORS SHALL BE HEAVY DUTY TYPE FOR MARINE ENVIRONMENT APPLICATIONS.

LAY THE PLANKS WITH THE BEST SIDE UP AND WITH ADJACENT EDGES IN CONTACT UNLESS OTHER SPACING SPECIFIED.

PERFORM COUNTERSINKING WHEREVER THE HEADS OF SCREWS OR BOLTS WOULD OTHERWISE INTERFERE WITH THE ASSEMBLY OF THE WORK.

**CONCRETE CAP, CONCRETE BEAMS, & STEEL SHEET PILE WALL:**  
CAST IN PLACE CONCRETE SHALL BE TYPE II CONCRETE WITH A COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. MAXIMUM WATER-CEMENTIOUS MATERIALS RATIO BY WEIGHT RATIO SHALL BE 0.40. SLUMP SHALL NOT EXCEED 5" (1"±).

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A 615, GRADE 60. ALL DETAILING AND ACCESSORIES TO CONFORM TO ACI DETAILING MANUAL (LATEST EDITION).

PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES.

PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE SLABS.

REINFORCED CONCRETE CONSTRUCTION TO CONFORM TO ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

PROVIDE SLEEVES FOR ALL PIPES, CONDUITS, ETC., THAT PENETRATE CONCRETE STRUCTURAL MEMBERS PRIOR TO PLACEMENT OF CONCRETE. CUTTING OR DRILLING OF HARDENED CONCRETE NOT PERMITTED.

DO NOT EMBED HORIZONTAL CONDUITS, PIPES, ETC., IN HORIZONTAL CONCRETE STRUCTURAL MEMBERS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):  
CONCRETE CAP – TOP 3" MINIMUM, BOTTOM 3" MINIMUM, SIDES 3" MINIMUM

PROVIDE CHAIRS, SPACERS, TIES, AND ALL DEVICES NECESSARY FOR PROPER PLACING, SPACING, SUPPORTING, AND FASTENING REINFORCEMENT AS REQUIRED BY ACI 315. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT-DIP GALVANIZED LEGS OR PLASTIC LEGS.

PROVIDE 90° BEND WITH 36" MINIMUM SPLICE FOR ALL VERTICAL BARS ON TOP OF VERTICAL WALL. PANELS SHALL PENETRATE CONCRETE CAP 3" MINIMUM. BOTTOM OF VERTICAL SLABS SHALL BE PLACED ON FIRM ROCK OR PENETRATE CANAL BOTTOM 4’ MIN.

LAP SPLICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN CONCRETE MEMBERS BY WIRING TOGETHER IN CONTACT IN ACCORDANCE WITH ACI 318, LATEST EDITION, FOR CLASS "B" TENSION LAP SPLICES. DO NOT SPLICE CONTINUOUS TOP BARS IN BEAMS AT ENDS OF CLEAR SPANS. DO NOT SPLICE CONTINUOUS BOTTOM BARS IN BEAMS IN CLEAR SPANS BETWEEN SUPPORTS.

PROVIDE 1" EXPANSION JOINT FOR CONCRETE CAP IN LOCATIONS AS SHOWN. THE FILLER SHOULD BE INSTALLED 1/2" BELOW THE CONCRETE SURFACE AND SEALED WITH A JOINT SEALING COMPOUND TO PROTECT FROM WATER INFILTRATION AND WEATHERING. A BACKER ROD OR BOND BREAKER TAPE SHOULD BE INSTALLED OVER THE JOINT FILLER TO PREVENT THE SEALANT FROM BONDING TO THE FILLER.

STEEL SHEET PILE SHALL BE SKYLINE STEEL SCZ-21N STEEL SHEET PILING. (22’ MIN. LENGTHS).

BOTH SIDES OF THE TOP 10’ OF THE STEEL SHEET PILE SHALL BE COATED WITH EPOXY PAINT TO 16 MIL THICKNESS.

TOP OF STEEL SHEET PILE SHALL PENETRATE CONCRETE BEAM 9" MIN.

REVISIONS:


DOCKING FACILITY MODIFICATIONS  
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DATE: 09/25/19

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CERTIFIED BY:  
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