

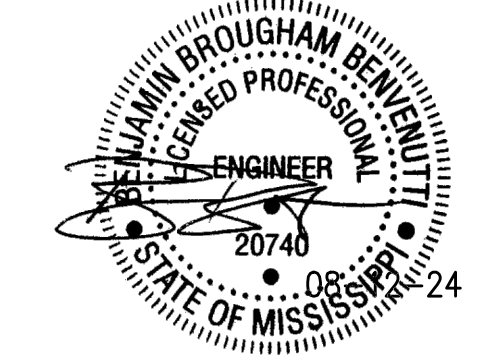
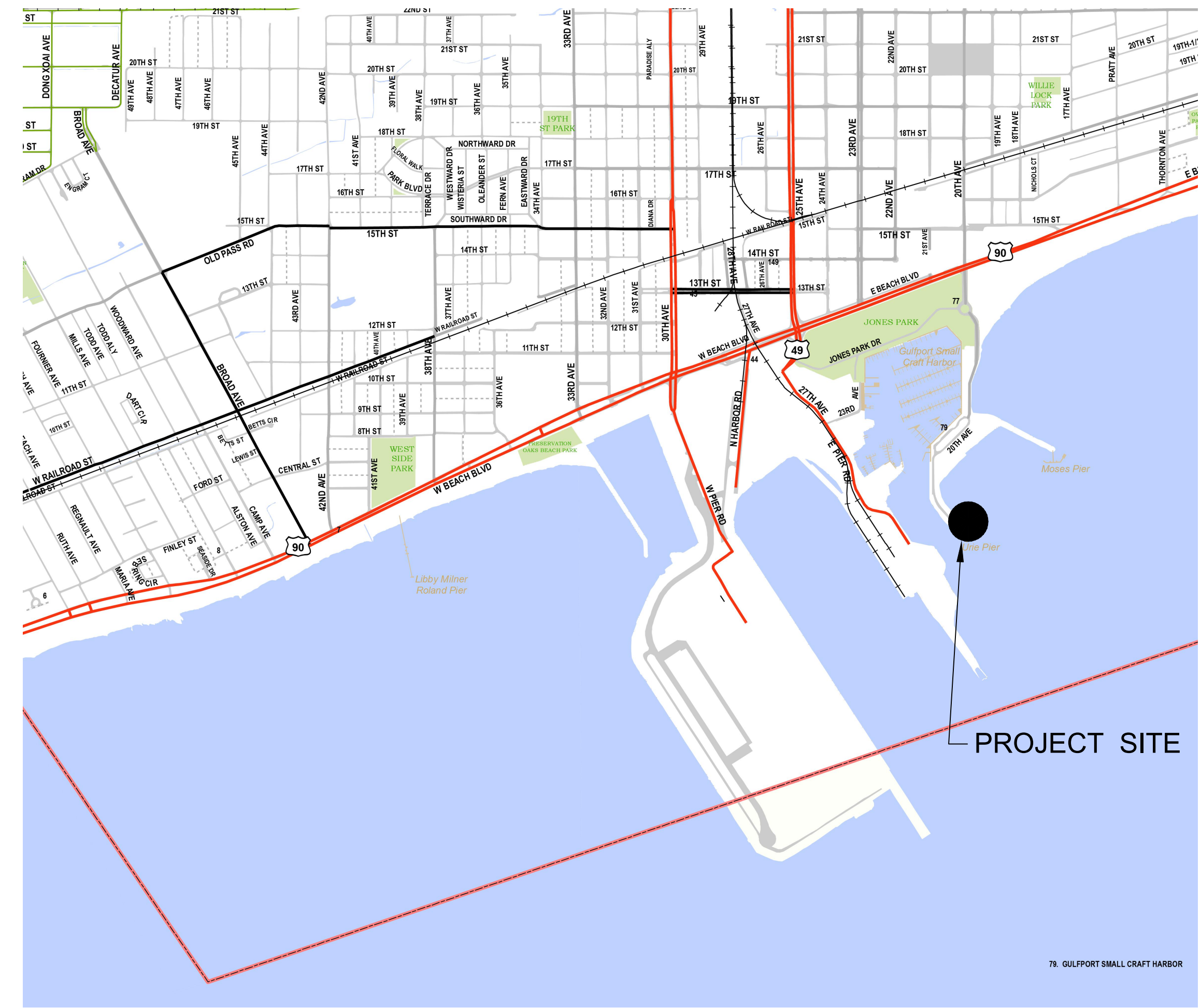
# REPAIRS TO FRED URIE PIER DUE TO HURRICANE ZETA PROJECT NO. 178587

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DEPARTMENT OF LEISURE SERVICES  
1422 23RD AVENUE, GULFPORT, MS 39501  
PH. 228-868-5881 FAX. 228-868-5922

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- COUNCIL MEMBERS**
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**COVINGTON**  
CIVIL AND ENVIRONMENTAL

2300 14TH STREET  
GULFPORT, MISSISSIPPI 39501  
Office: (228)396-0486

DECEMBER 2024

ISSUED FOR CONSTRUCTION

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**GENERAL NOTES:**

1. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR IS DIRECTED PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS DEEMED NECESSARY TO ARRIVE AT HIS/HER OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH HIS/HER BID WILL BE BASED.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY CLOSE THE PIER FROM PUBLIC USE WHILE UNDER CONSTRUCTION DURING ALL HOURS OF THE DAY.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS (DRAWINGS, SPECIFICATIONS, ADDENDA, AND CHANGE ORDERS). THE CONTRACTOR SHALL HAVE THE LATEST UPDATED VERSION OF THE PREVIOUSLY NAMED DOCUMENTS AT THE WORK SITE AT ALL TIMES.
4. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR THE CONSTRUCTION METHODS OR TECHNIQUES, NOR FOR THE EXECUTION OF THE WORK AS SHOWN ON THESE DRAWINGS. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURES OF ANY OF THE CONTRACTORS OR SUBCONTRACTORS TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
5. ANY PROPOSED DEVIATION FOR THE CONTRACT DOCUMENTS BY THE CONTRACTOR, INCLUDING DRAWINGS AND/OR SPECIFICATIONS, MUST BE ACCEPTED BY THE ENGINEER, IN WRITING, PRIOR TO THE WORK BEING DONE. ANY DEVIATIONS PERFORMED WITHOUT THE ENGINEER'S WRITTEN ACCEPTANCE WILL NOT BE PAID FOR AND MAY HAVE TO BE REDONE OR REMOVED AT THE CONTRACTOR'S EXPENSE.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) FOR CONSTRUCTION PROJECTS OF THIS TYPE. ANY SAFETY MEASURE OR METHODS OF CONSTRUCTION THAT ARE NECESSARY IN THE CONSTRUCTION OF THIS PROJECT TO COMPLY WITH THOSE REGULATION ARE THE CONTRACTOR'S RESPONSIBILITY.
7. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS WHICH ARE REQUIRED PRIOR TO CONSTRUCTION.
9. WHERE CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
10. UNLESS DETAILED, SPECIFIED OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS OR IN SPECIFIC DRAWINGS.
11. ALL WORK DETAILED IN THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED BY THE CONTRACTOR REGARDLESS IF A SPECIFIC PAY ITEM IS IDENTIFIED FOR EACH WORK ITEM OR NOT. IF A PAY ITEM IS NOT IDENTIFIED FOR THE WORK ITEM DETAILED IN THE CONTRACT DOCUMENTS, THE COST TO COMPLETE THAT WORK SHALL BE ABSORBED IN THE CONTRACTORS OVERALL COST.
12. CONTRACTOR IS RESPONSIBLE FOR SECURING WORK SITE FROM THE PUBLIC INCLUDING ALL REQUIRED BARRIERS & SIGNAGE.
13. LAY DOWN AREA IS LOCATED ON PLANS.
14. SURVEY SHOWN WAS FURNISHED BY TICE ENGINEERING, INC. SURVEY IS REFERENCED TO NAD 83 HORIZONTAL AND NAVD88 (GEOID 18) VERTICAL BASED ON CGCG NETWORK.

**DEMOLITION NOTES:**

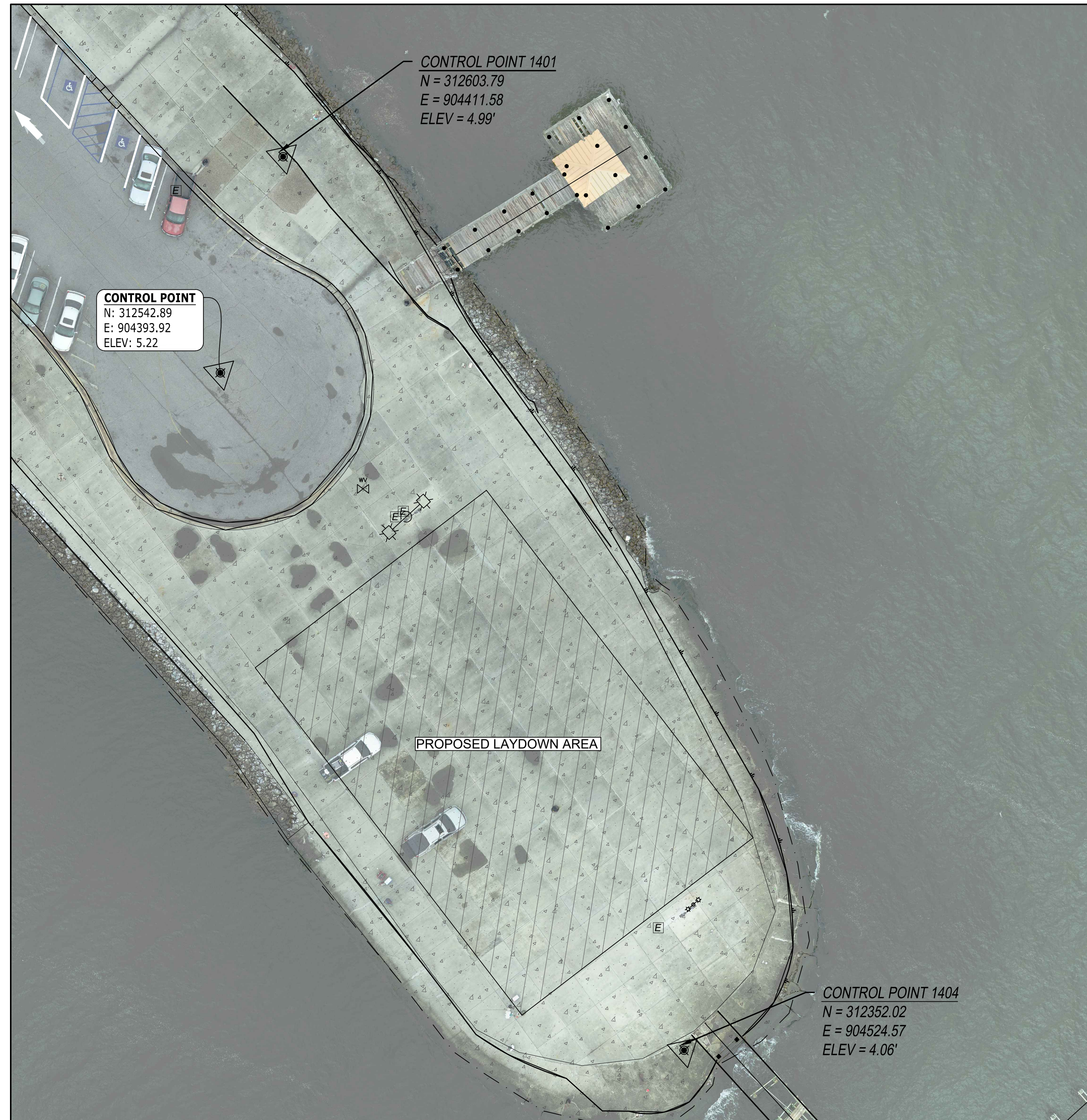
1. DEMOLITION SHALL INCLUDE THE REMOVAL OF ALL MATERIALS IDENTIFIED HEREIN. DEMOLITION SHALL INCLUDE REMOVAL FROM SITE AND DISPOSAL AT AN APPROVED FACILITY. STORAGE OF REMOVED MATERIAL ON THE SAND BEACH WILL NOT BE ALLOWED FOR ANY PERIOD OF TIME.
2. COORDINATE REMOVAL OF EXISTING SOLAR LIGHTS WITH POINT OF CONTACT WITH MISSISSIPPI POWER.  
MISSISSIPPI POWER POINT OF CONTACT  
DANIEL REID 228-264-0192

**CONCRETE NOTES:**

1. CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 5000 PSI AND SHALL CONFORM TO THE REQUIREMENTS OF ACI 307.3R-14 GUIDE FOR DESIGN AND CONSTRUCTION MARINE STRUCTURES OF WATERFRONT AND COASTAL CONCRETE MARINE SPECIFICATIONS.
2. ALL ASPECTS OF CONCRETING INCLUDING, FORMING, MIXING, TRANSPORTING, PLACING AND STRIPING SHALL BE IN ACCORDANCE WITH MDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2017 EDITION.
3. ALLOW CONCRETE TO CURE FOR A MINIMUM OF 7 DAYS BEFORE ANY LOADS ARE APPLIED.
4. DETAILING OF REINFORCEMENT BARS AND ACCESSORIES SHALL CONFORM TO THE CRSI "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
5. CONCRETE REINFORCEMENT SHALL CONFORM TO ASTM A-615, GRADE 60 OR ASTM A-955. GRADE 60 STAINLESS STEEL REINFORCEMENT BARS SHALL NOT BE WELDED OR HEATED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
6. ALL CONCRETE SHALL BE VIBRATED.
7. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND WITH APPROVAL OF THE ENGINEER (OWNER OR HIS AUTHORIZED REPRESENTATIVE).
8. CONCRETE TESTING SHALL BE PERFORMED BY A THIRD PARTY AT THE CONTRACTORS COST.

**FRAMING NOTES:**

1. ALL FRAMING SHALL BE IN ACCORDANCE WITH INTERNATIONAL BUILDING COD (IBC) LATEST EDITION AND LOCAL ORDINANCE.
2. ALL TIMBER IS TO BE COPPER ARSENIC (CCA) TREATED MATERIAL  
CCA TREATMENT:  
DESCRIPTION                      MIN. RETENTION RATE  
STRUCTURAL MEMBER              2.5 LBS./C.F.
3. ALL TIMBER SIZES TO BE ACTUAL AND NOT NOMINAL (CAPS, STRINGERS, DECKING, ETC.)
4. FRAMING TIMBERS MAY BE ROUGH CUT, DECKING AND RAILS TO BE S4S.
5. TREAT ALL CUTS AND HOLES WITH COATING(S) OF COPPER-NAPHTHENATE TREAT ALL CUTS AND HOLES WITH COATING(S) OF COPPER-NAPHTHENATE PRIMER PER MANUFACTURE'S INSTRUCTIONS PRIOR TO ASSEMBLY.
6. ALL STRUCTURAL STEEL ITEMS (INCLUDING FASTENERS) SHALL BE STAINLESS STEEL (INCLUDING FASTENERS).
7. ALL STRUCTURAL STEEL PER AISC SPECIFICATIONS AND CONFORM WITH ASTM A276 TYPE 316. BOLTS SHALL BE TYPE 316 STAINLESS STEEL; USE E70 ELECTRODES FOR WELDING WHERE REQUIRED.



**DESIGN CONTROL POINTS**

SCALE: 1" = 20'-0"

Estimated Standard Quantities		
Concrete Cap (Quantities for Each)		
Line Item	Unit	Quantity
18" Strap Tie Blocking Connection To Joist (Stainless Steel)	PER CAP	2
36" Strap Tie Blocking Connection To Joist (Stainless Steel)	PER CAP	3
Clip Angle (Stainless Steel)	PER CAP	2
3/4" Bolts with Ogee Washers and Nut (24")	PER CAP	4
Stap-Tie Hold Down Blocking Connection to Pile (Stainless Steel)	PER CAP	10
Typical 10'x10' Pavilion (Quantities for Each)		
Line Item	Unit	Quantity
Metal Seam Roof	SF	425
1" x 6" Tongue and Groove Roof Decking	SF	425
3" x 12" Beam (12'-0")	EA	4
3" x 8" Rafter (12'-0")	EA	10
3" x 8" Ridge (12'-0")	EA	4
3/4" Bolts with Ogee Washers and Nut (18")	EA	8
Compression Box - Structural Steel	EA	1
Rafter Bracket - Structural Steel	EA	16
Beam Clip - Structural Steel	EA	16
Corner Beam Clip - Structural Steel	EA	4

\*Quantities provided for bidding assistance. Contractor to verify.

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CIVIL AND ENVIRONMENTAL  
2300 14TH STREET  
GULFPORT, MISSISSIPPI 39501  
Office: (228)396-0486

Professional Engineer Seal for William Brougham Beverly, State of Mississippi, License No. 20740, expires 12-18-24.

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**REPAIR TO FRED URIE PIER  
AS A RESULT OF HURRICANE ZETA**

CITY OF GULFPORT

**GENERAL NOTES**

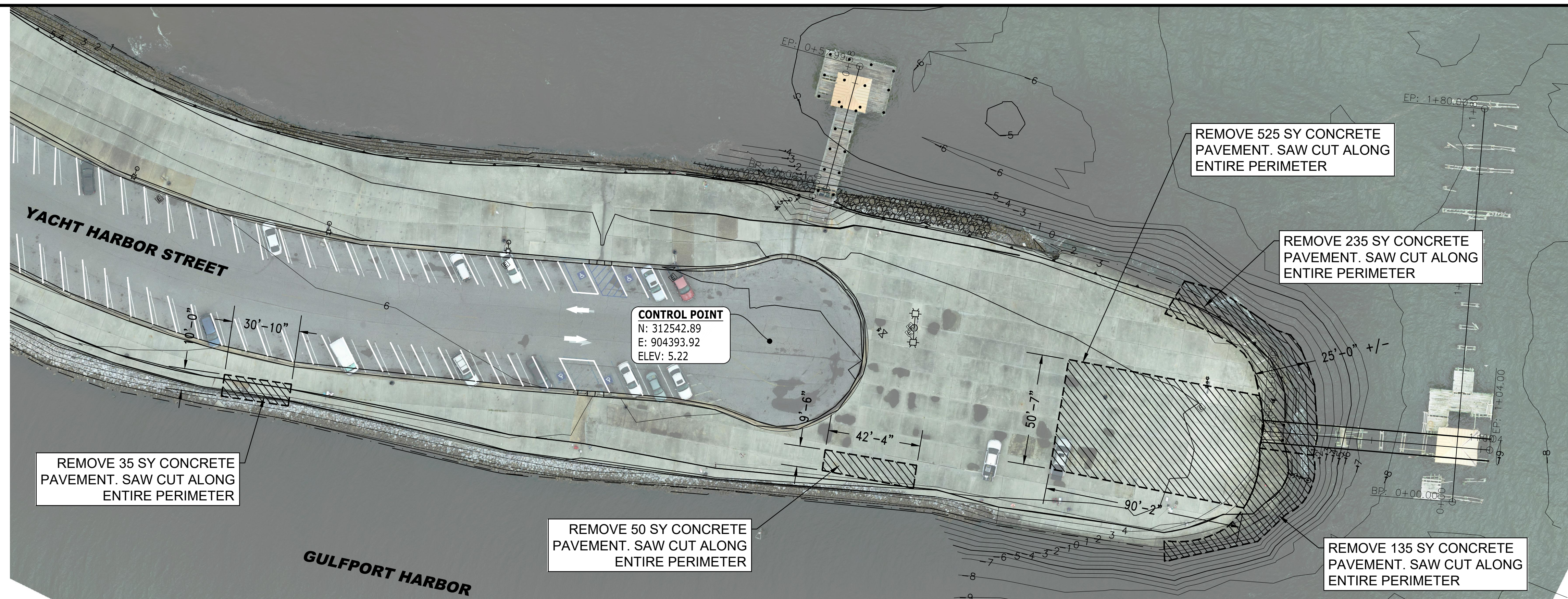
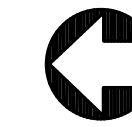
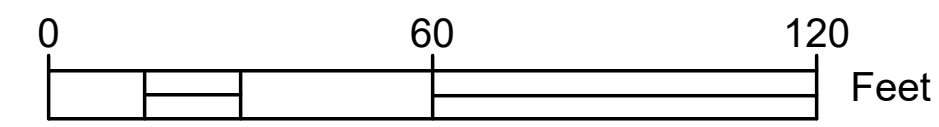
DATE: 8-12-24      SHEET NUMBER: 2 OF 19  
SCALE: N.T.S.  
DRAWN BY: KP      CHECKED BY: SM  
PROJECT NO.: 16405

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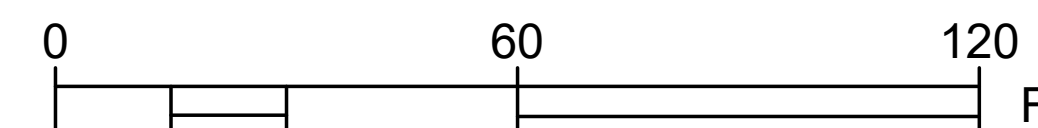
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**FRED URIE JETTY EXISTING CONDITIONS/DEMO - PLAN VIEW**



**FRED URIE JETTY EXISTING CONDITIONS/DEMO - PLAN VIEW**



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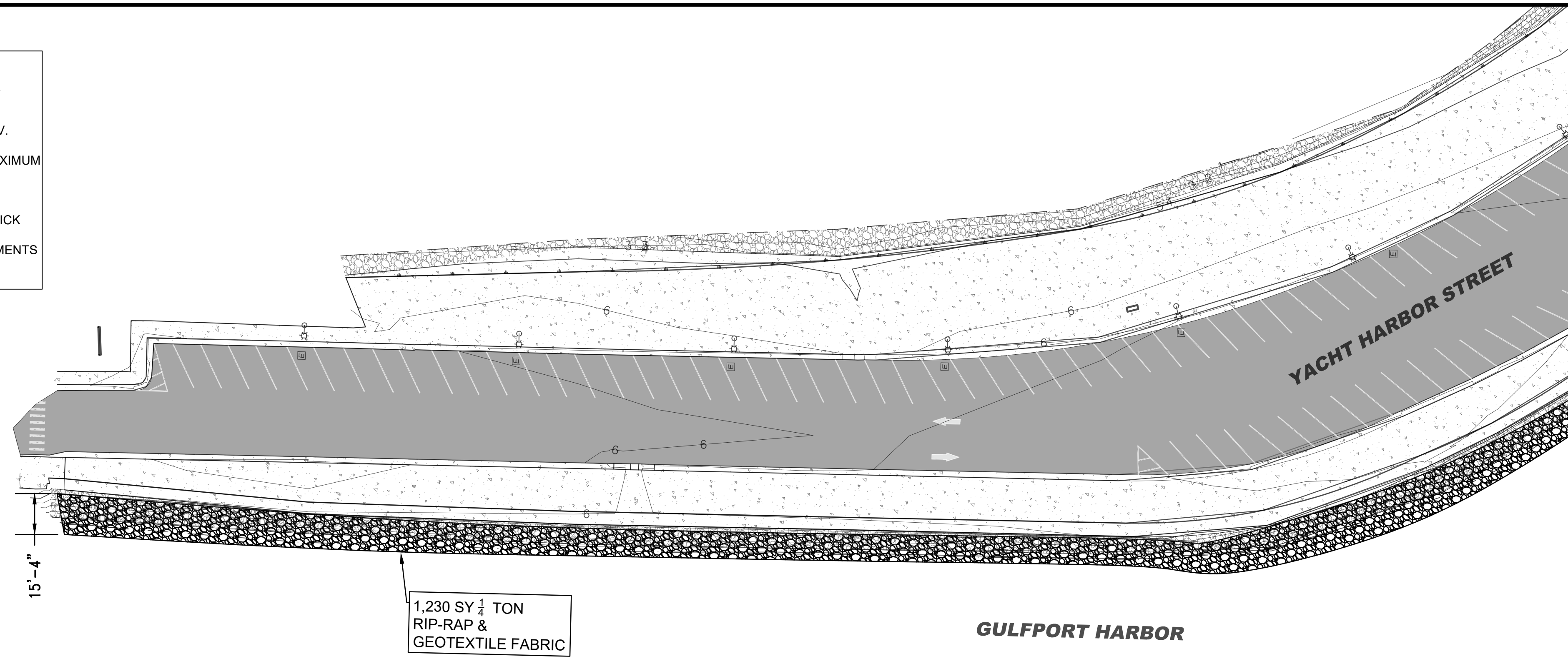
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**RIPRAP NOTES:**

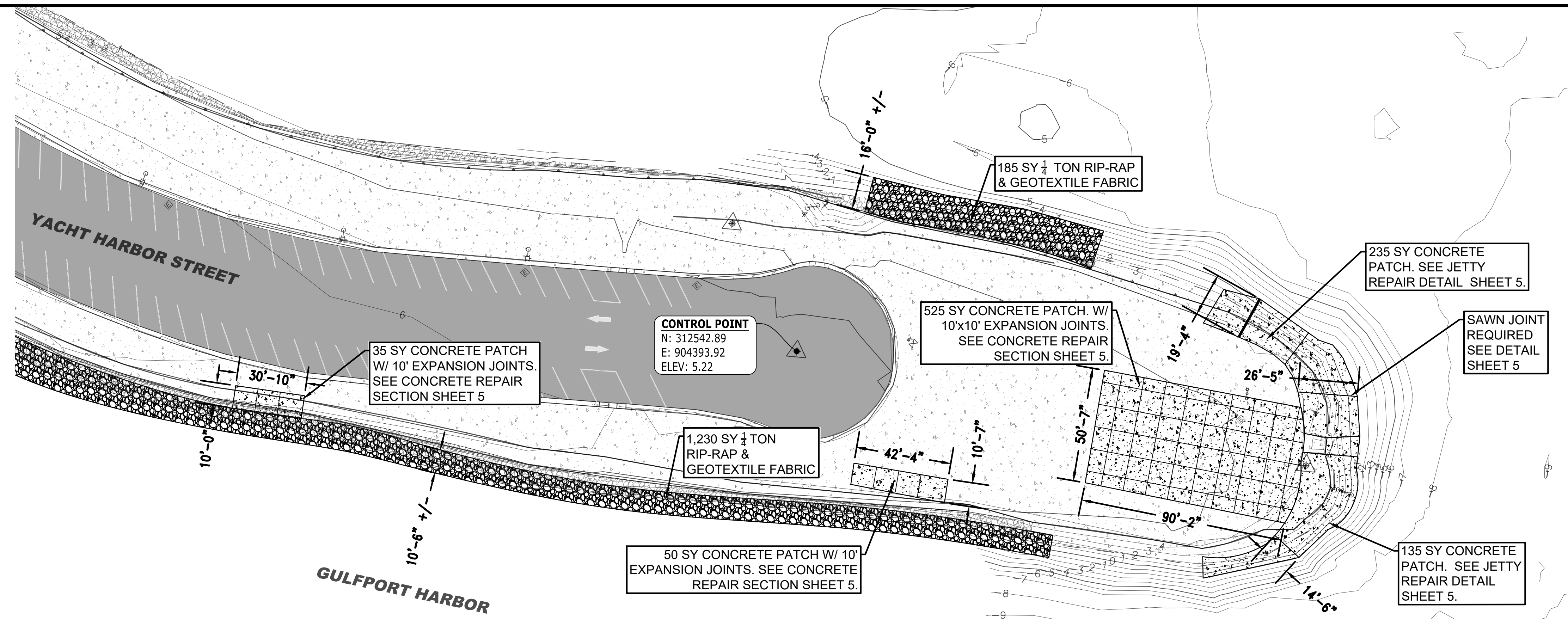
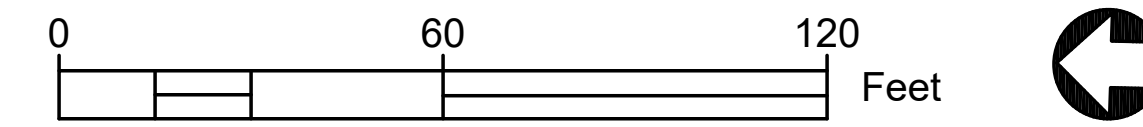
RIPRAP SHALL BE ¼ TON PER THE LATEST MDOT SPECIFICATIONS.

GEOTEXTILE FABRIC USED UNDER RIPRAP SHALL BE MDOT TYPE V. FABRIC SHALL BE OVERLAPPED A MINIMUM OF 18-INCHES AND SECURING PINS INSERTED THROUGH BOTH STRIPS AT 2-FOOT MAXIMUM INTERVALS.

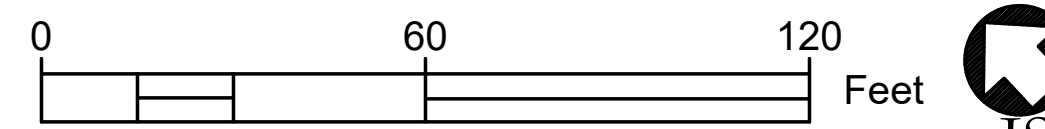
RIPRAP SHALL BE PLACED IN A UNIFORM LAYER ABOUT 2-FEET THICK FROM THE BOTTOM OF THE SLOPE UPWARD TO ENSURE LARGER FRAGMENTS ARE UNIFORMLY DISTRIBUTED, AND SMALLER FRAGMENTS FILLING THE SPACES BETWEEN THE LARGER FRAGMENTS FOR A WELL-KEYED AND DENSELY PLACED LAYER.



**FRED URIE JETTY PROPOSED REPAIRS - PLAN VIEW**



**FRED URIE JETTY PROPOSED REPAIRS - PLAN VIEW**



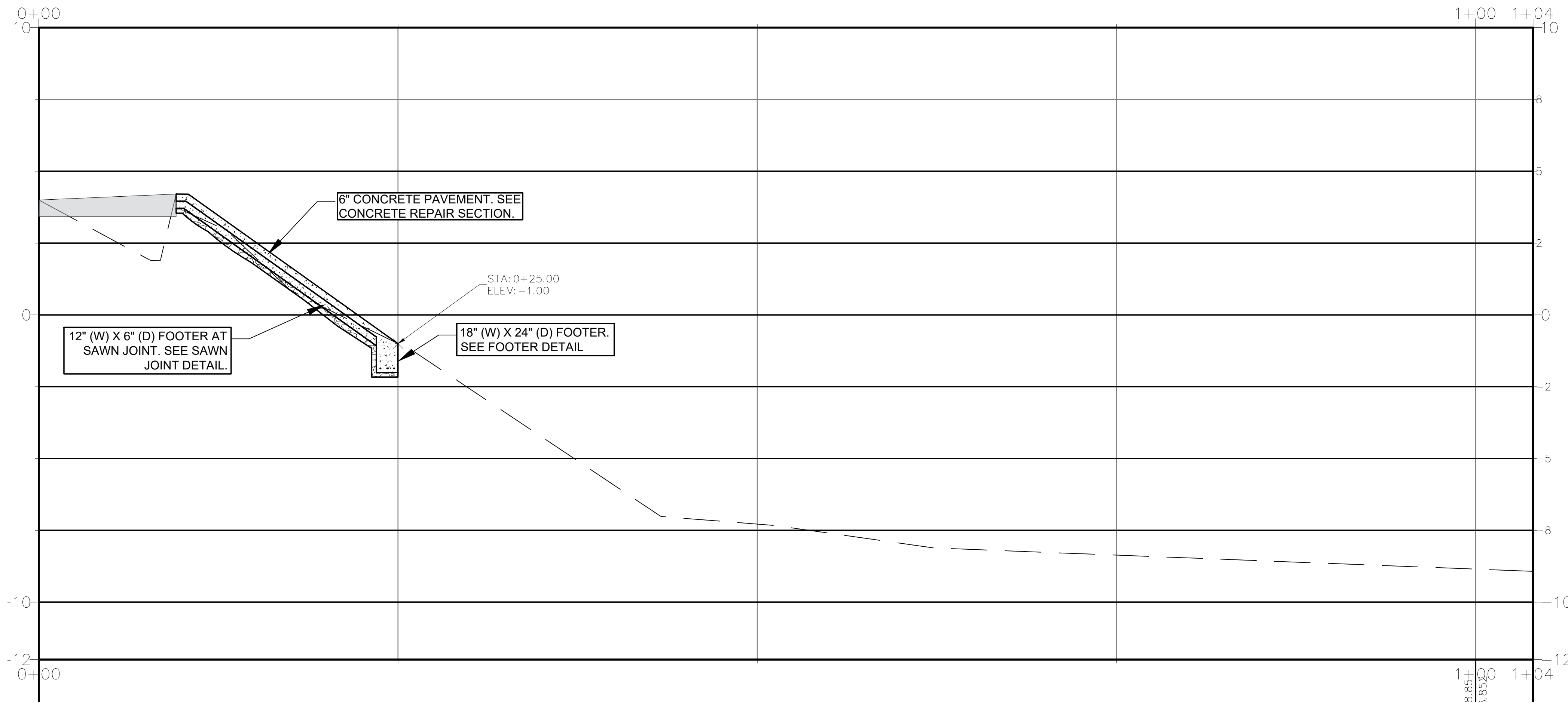
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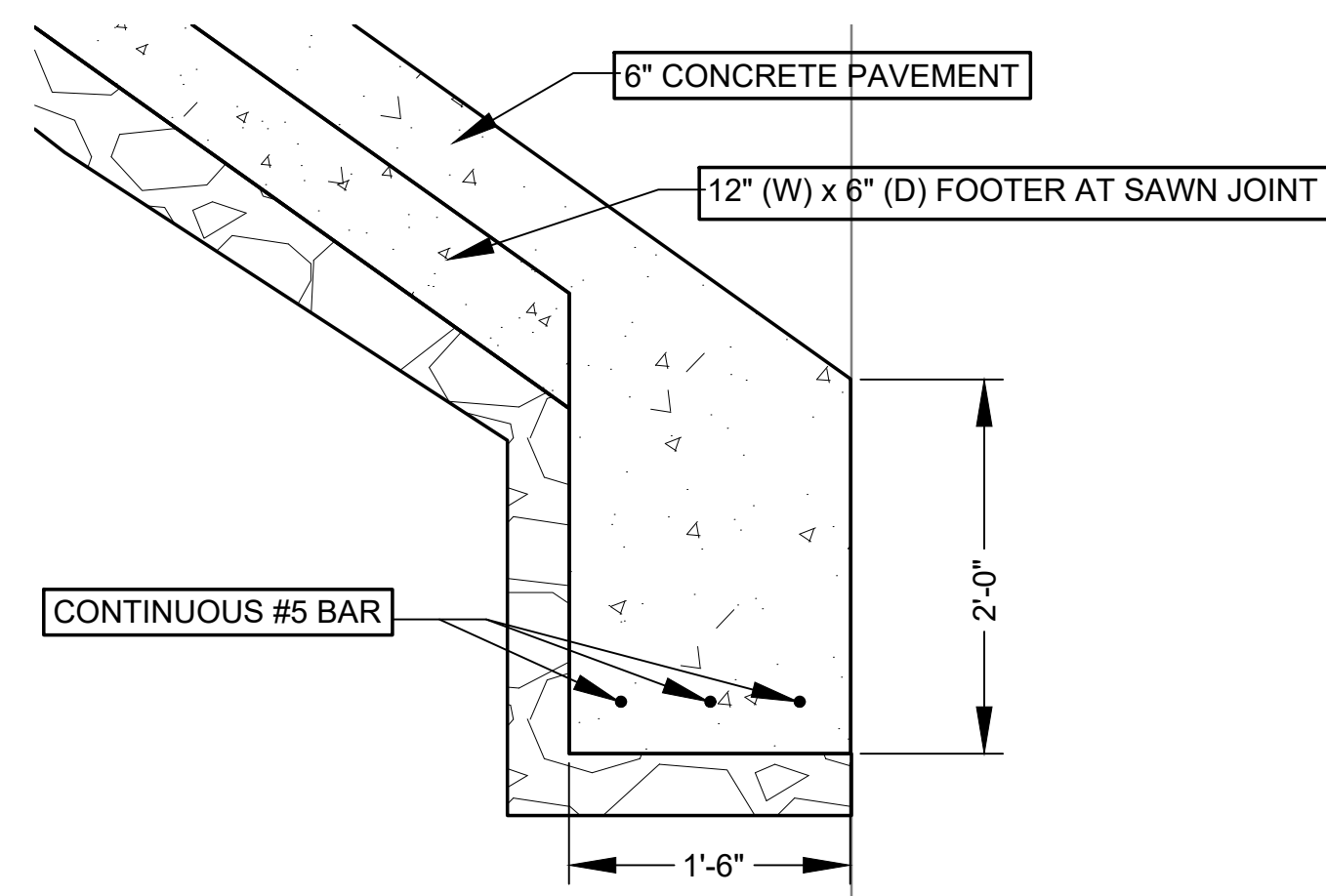
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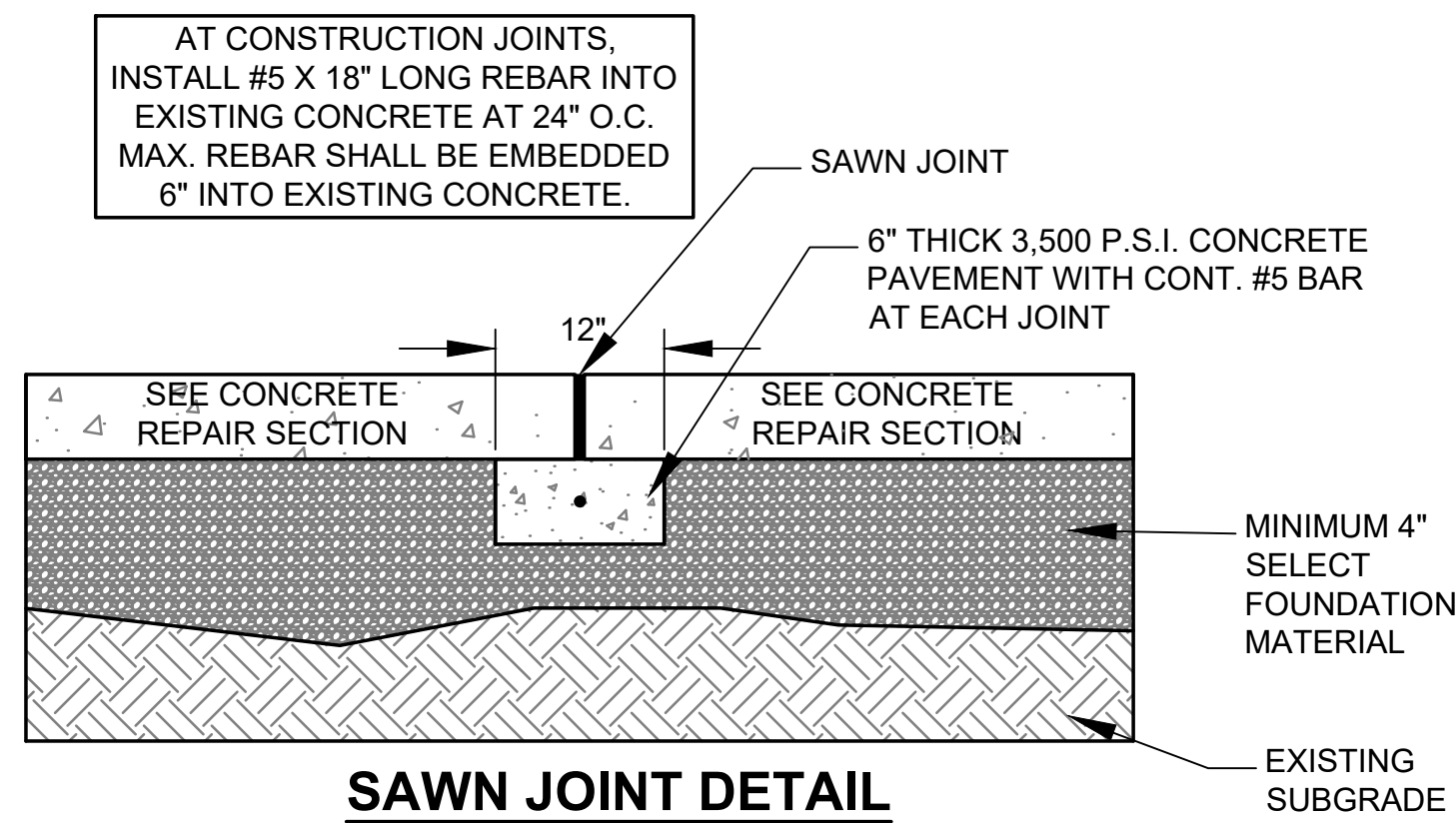
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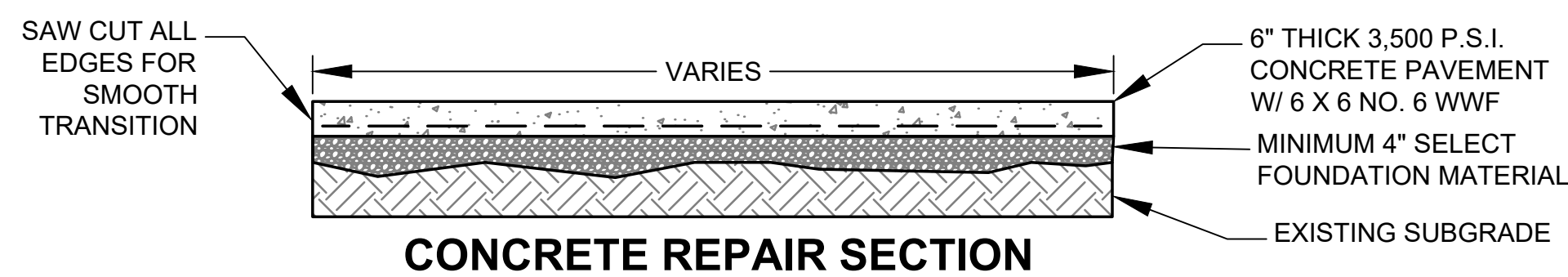
**JETTY REPAIR - SECTION VIEW**



**FOOTER DETAIL - SECTION VIEW**

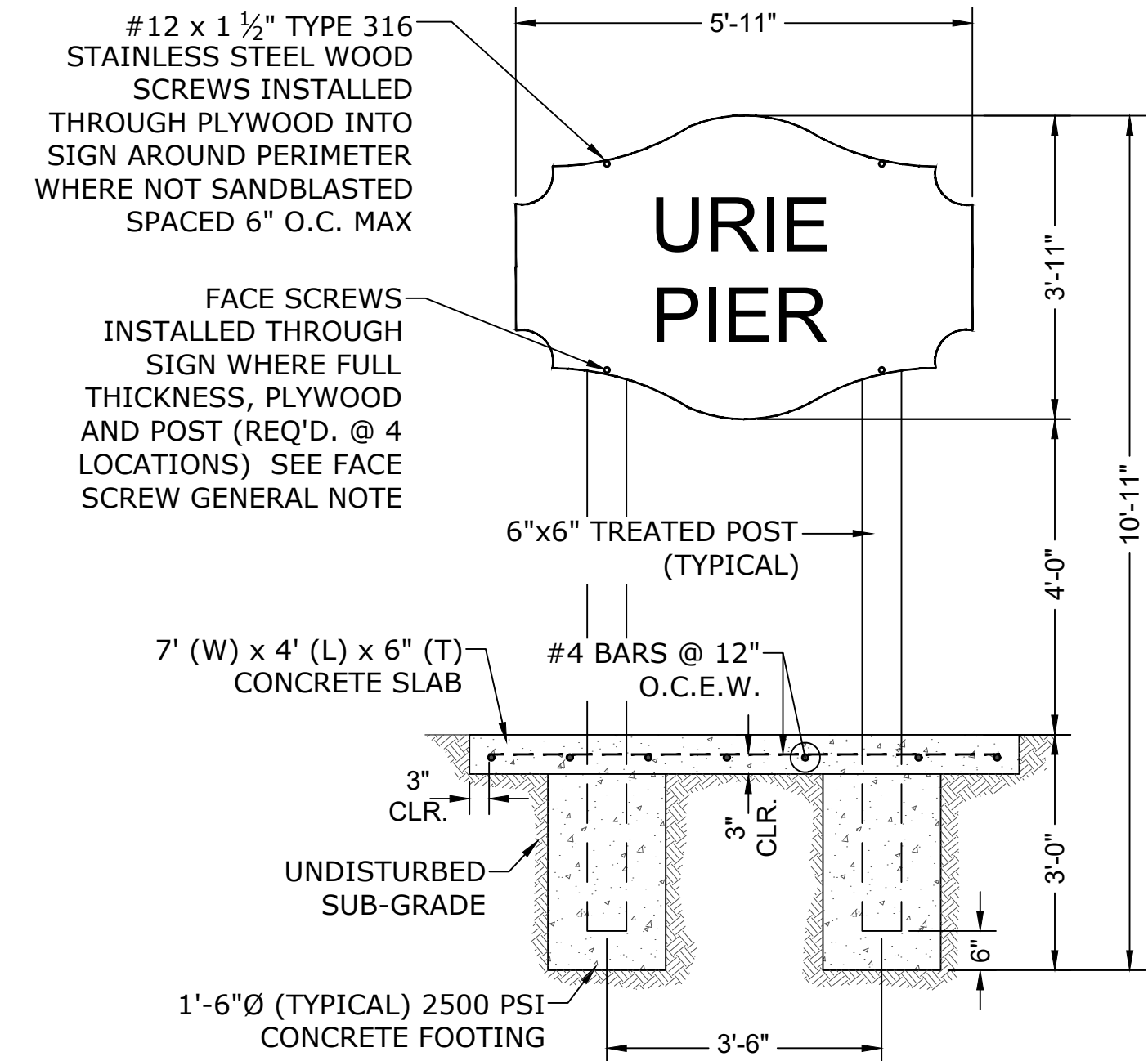


**SAWN JOINT DETAIL**

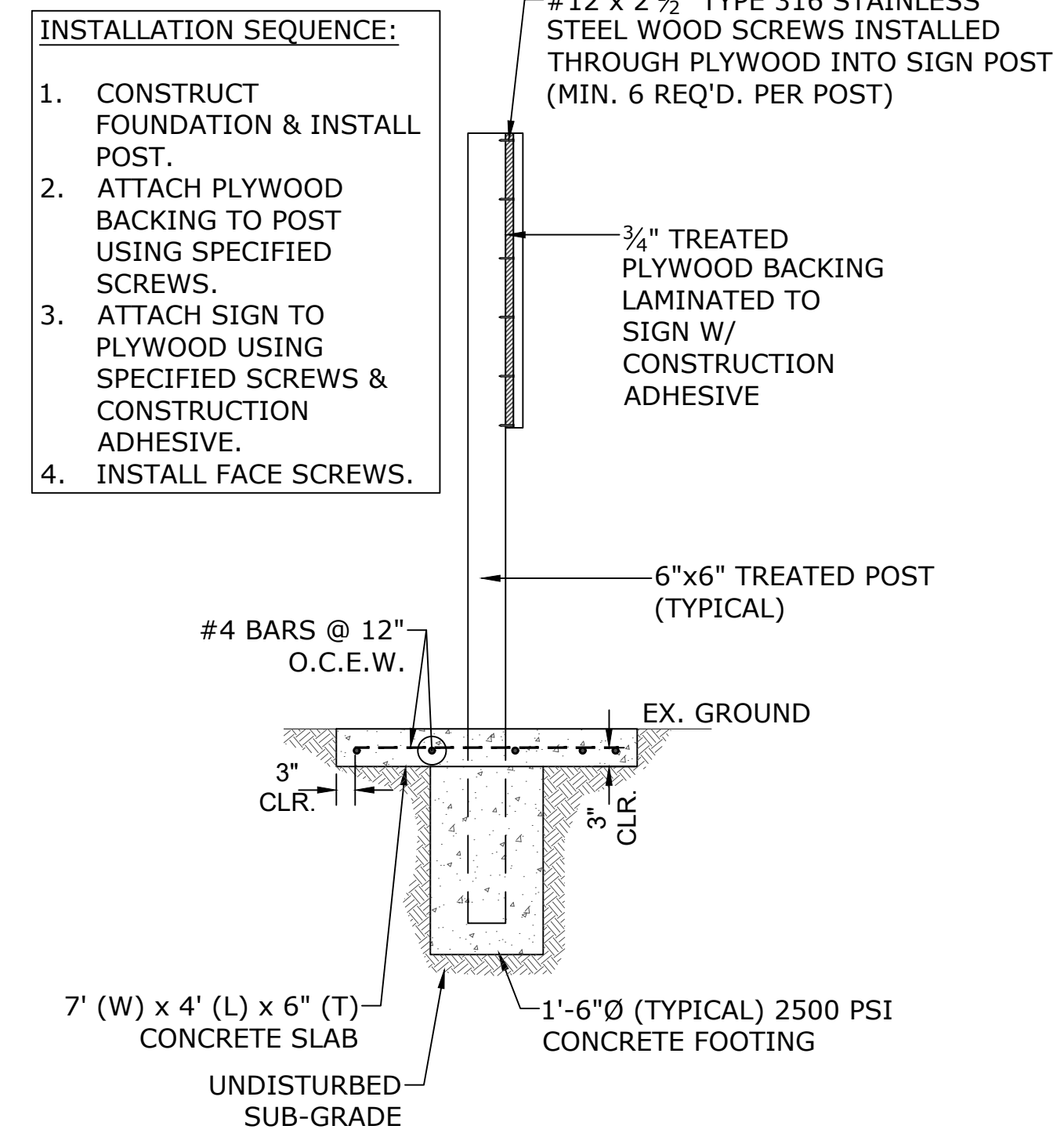


**CONCRETE REPAIR SECTION**

- PIER SIGN NOTES:**
1. A WOOD SIGN SHALL BE FABRICATED AND INSTALLED AT THE LOCATION DIRECTED BY THE OWNER.
  2. THE SIGN SHALL BE A MINIMUM OF 10 FEET WIDE AND 2 FEET HIGH (OUT TO OUT) AND SHALL CONTAIN THE FOLLOWING INFORMATION:  
 FRED URIE SR. PIER  
 CITY OF GULFPORT DEPARTMENT OF LEISURE SERVICES  
 CITY OF GULFPORT LOGO
  3. THE SIGN SHALL BE FABRICATED FROM CEDAR AND FINISHED WITH 1-SHOT LETTERING OR APPROVED EQUAL.
  4. PRIOR TO FABRICATION, A PROOF DRAWING SHALL BE FURNISHED TO THE ENGINEER FOR APPROVAL.
  5. POST, CONCRETE, REBAR, BOLTS AND ALL REQUIRED MATERIAL FOR SIGN INSTALLATION TO BE AN ABSORBED COST.



- GENERAL NOTES:**
1. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION.
  2. CONSTRUCTION ADHESIVE SHALL BE LOCTITE PL PREMIUM MAX OR EQUAL.
  3. FACE SCREWS SHALL BE SIMPSON STRONG-DRIVE DWP TYPE 316 STAINLESS STEEL. SIZE SHALL BE #12 X 4\"/>

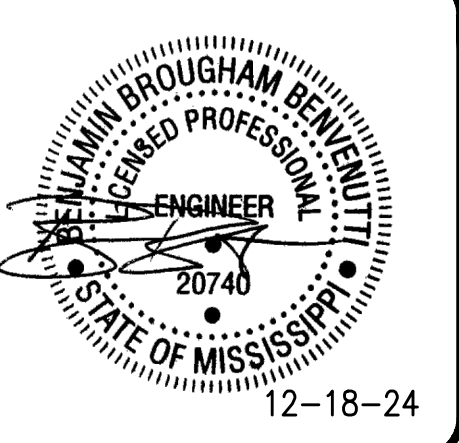


**URIE PIER SIGN**

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 AS A RESULT OF HURRICANE ZETA**

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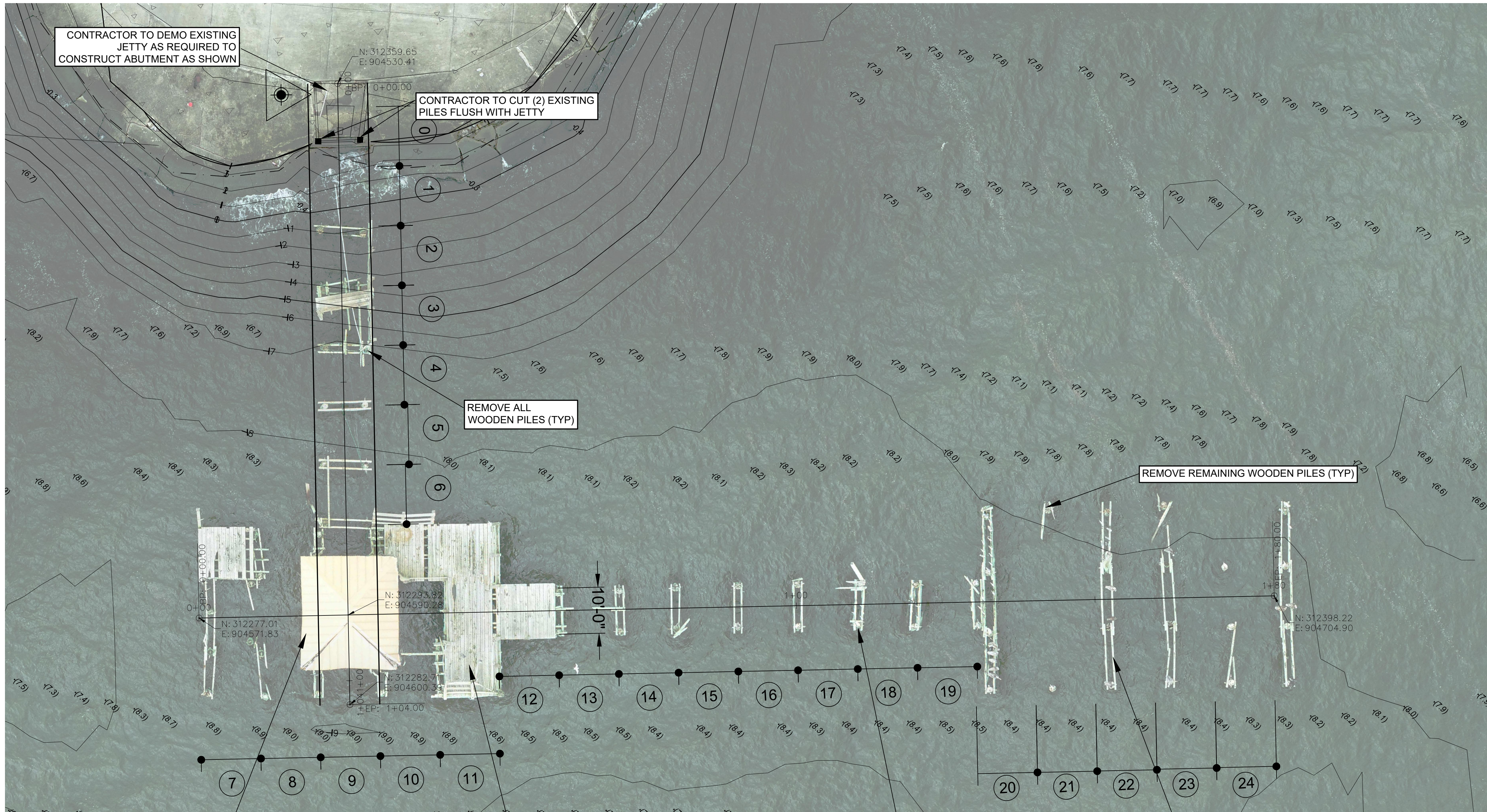


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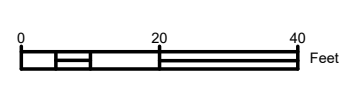
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<b>SOUTH PIER    DEMOLITION    PLAN</b>	
DATE	8-12-24
SCALE	1" = 10'
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6 OF 19	



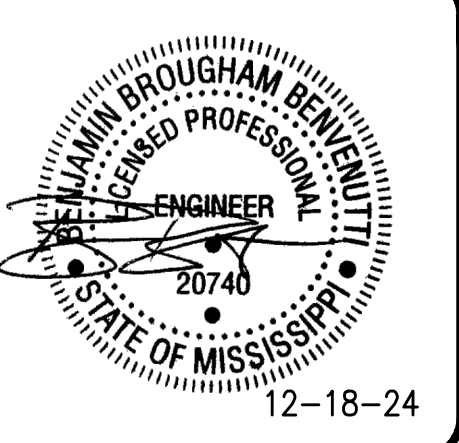
**SOUTH PIER  
 DEMOLITION PLAN**  
 SCALE: 1" = 40'

**DEMOLITION NOTES :**  
 COORDINATE REMOVAL OF EXISTING SOLAR LIGHTS WITH POINT OF CONTACT WITH MISSISSIPPI POWER.  
**REFERENCE INFORMATION :**  
 AERIAL IMAGE SHOWN OBTAINED BY COVINGTON CIVIL AND ENVIRONMENTAL ON 2-18-2022



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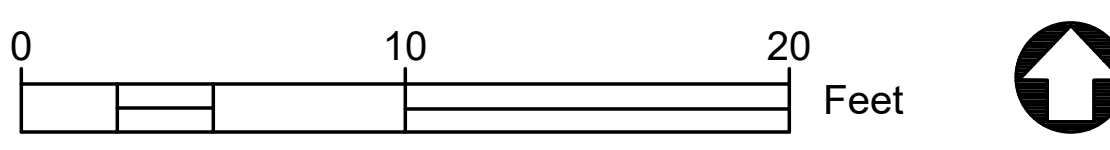
**REPAIR TO FRED URIE PIER  
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<b>EAST PIER    DEMOLITION    PLAN</b>	
DATE 8-12-24	SHEET NUMBER 7 OF 19
SCALE 1" = 5'	
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PROJECT NO. 16405	



**EAST PIER  
 DEMOLITION PLAN**  
 SCALE: 1" = 40'

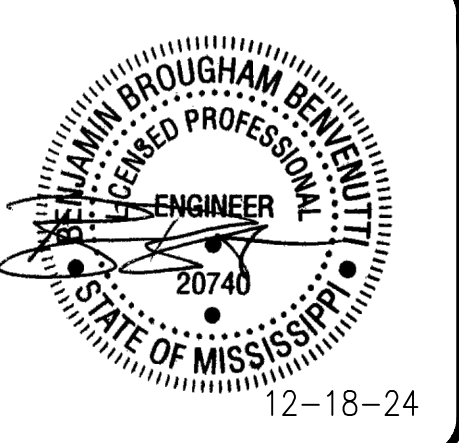


**DEMOLITION NOTES :**  
 COORDINATE REMOVAL OF EXISTING SOLAR LIGHTS WITH POINT OF CONTACT WITH MISSISSIPPI POWER.

**REFERENCE INFORMATION :**  
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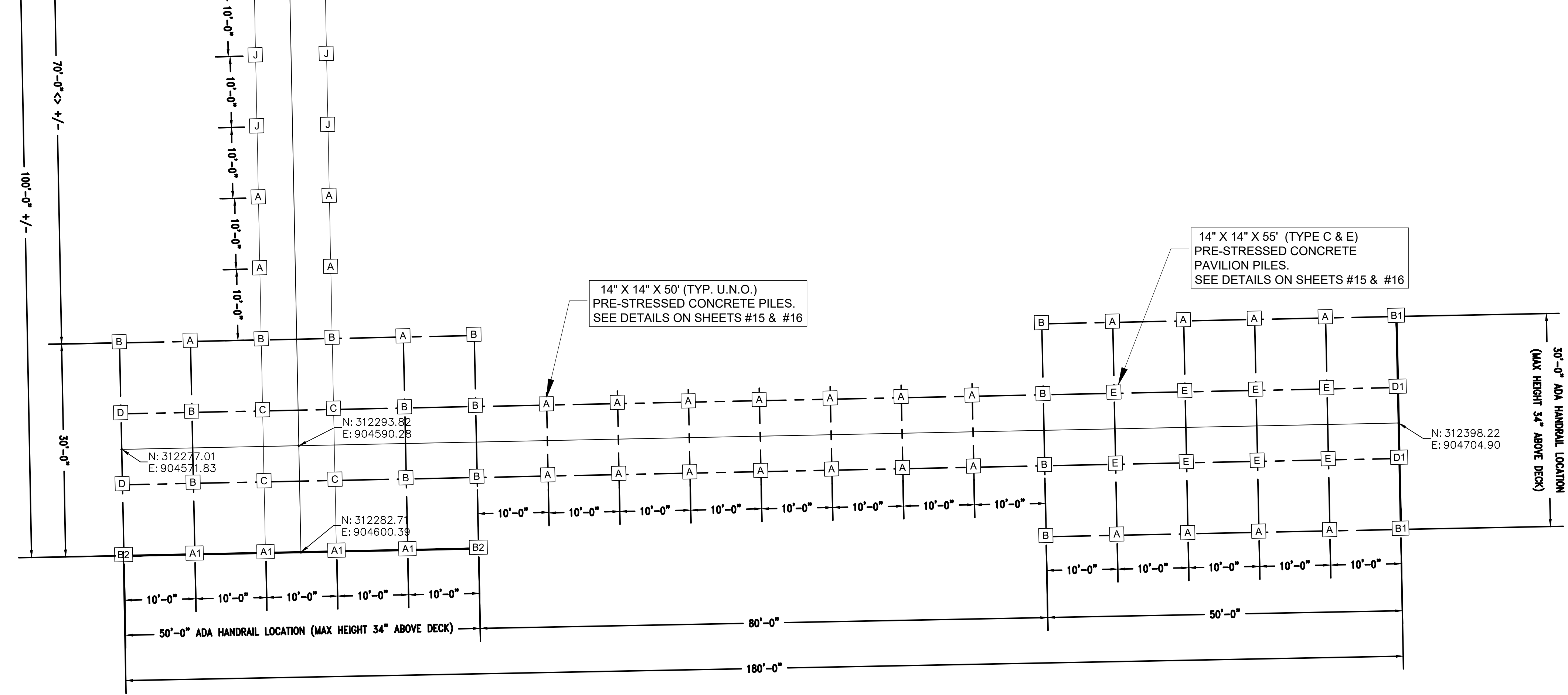
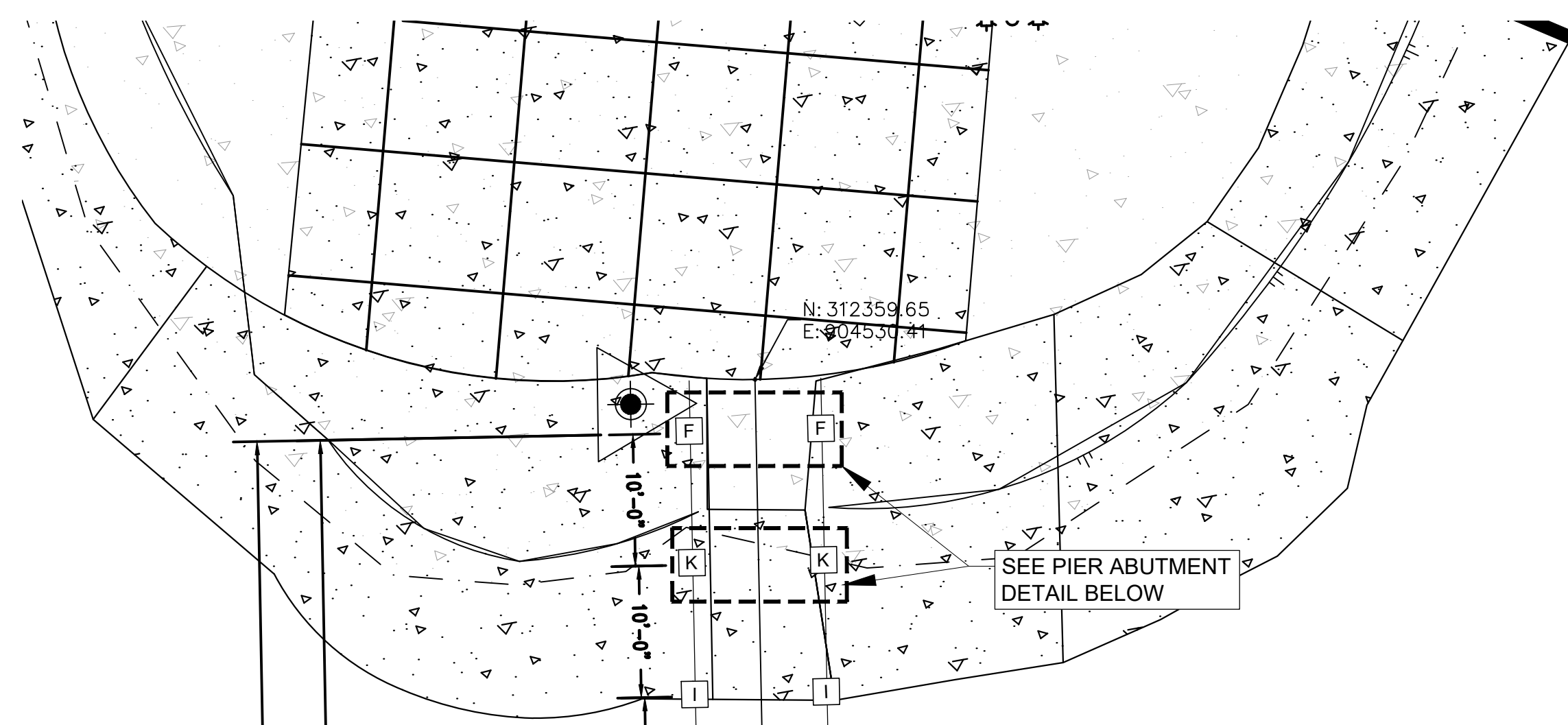
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 AS A RESULT OF HURRICANE ZETA**

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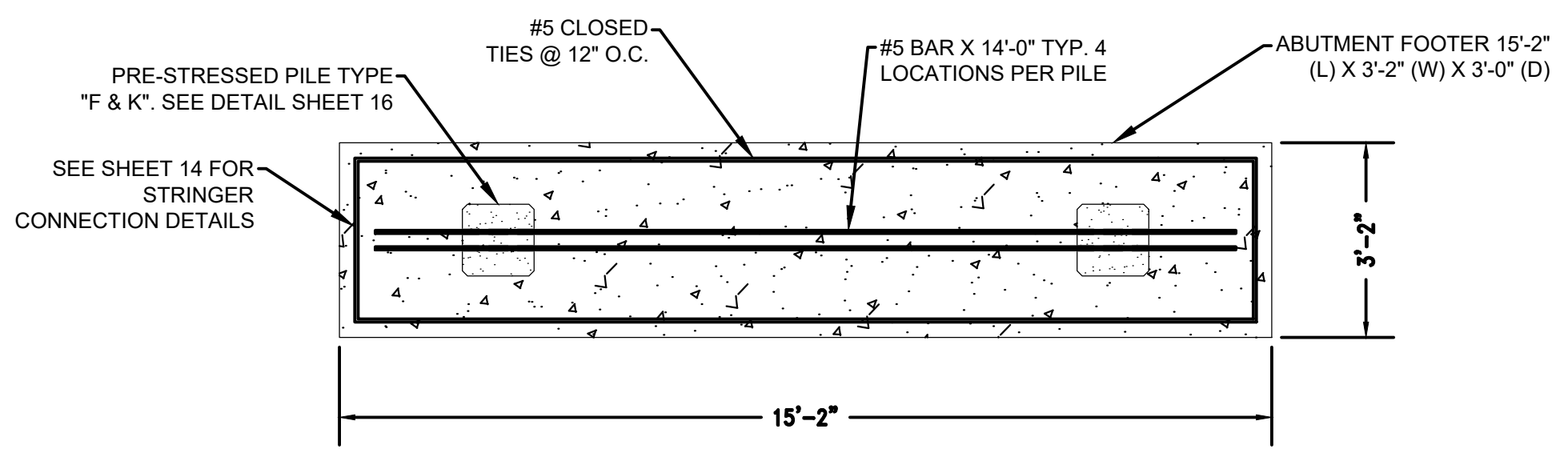
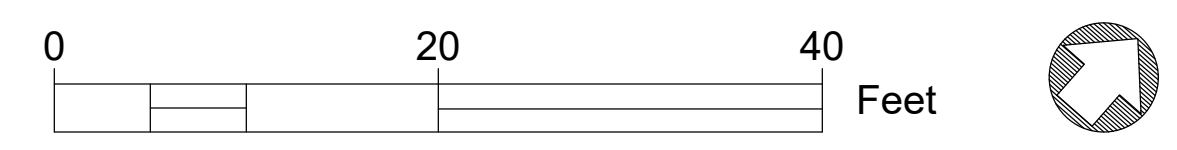
**SOUTH PIER  
 PROPOSED  
 PILE PLAN**

DATE: 8-12-24 SHEET NUMBER: 8 OF 19  
 SCALE: 1" = 10'  
 DRAWN BY: KP CHECKED BY: SM  
 PROJECT NO.: 16405



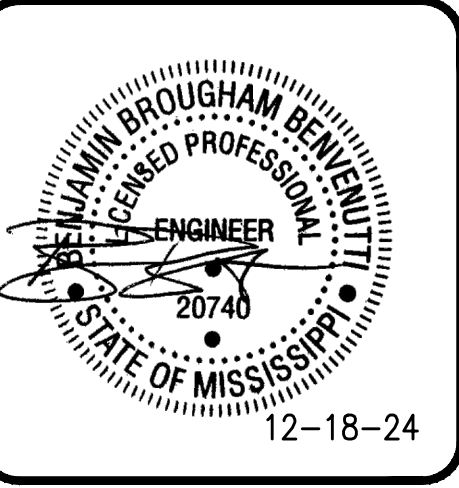
- PIER ABUTMENT NOTES:**
- AT EACH STRINGER, INSTALL A MECHANICAL WEDGE ANCHOR INTO EXISTING CONCRETE. ANCHORS SHALL BE EMBEDDED A MINIMUM OF 5". ATTACH STRINGERS TO WEDGE ANCHORS USING CLIP ANGLE AND BOLT. COORDINATE WITH DETAILS ON SHEET 14.
  - EXISTING CONCRETE TO BE REMOVED AS NOTED.
  - ALL VOIDS SHALL BE FILLED WITH CONCRETE FLUSH WITH SURROUNDING CONCRETE.

**SOUTH PIER  
 PROPOSED PILE PLAN**  
 SCALE: 1" = 40'



**ABUTMENT DETAIL**

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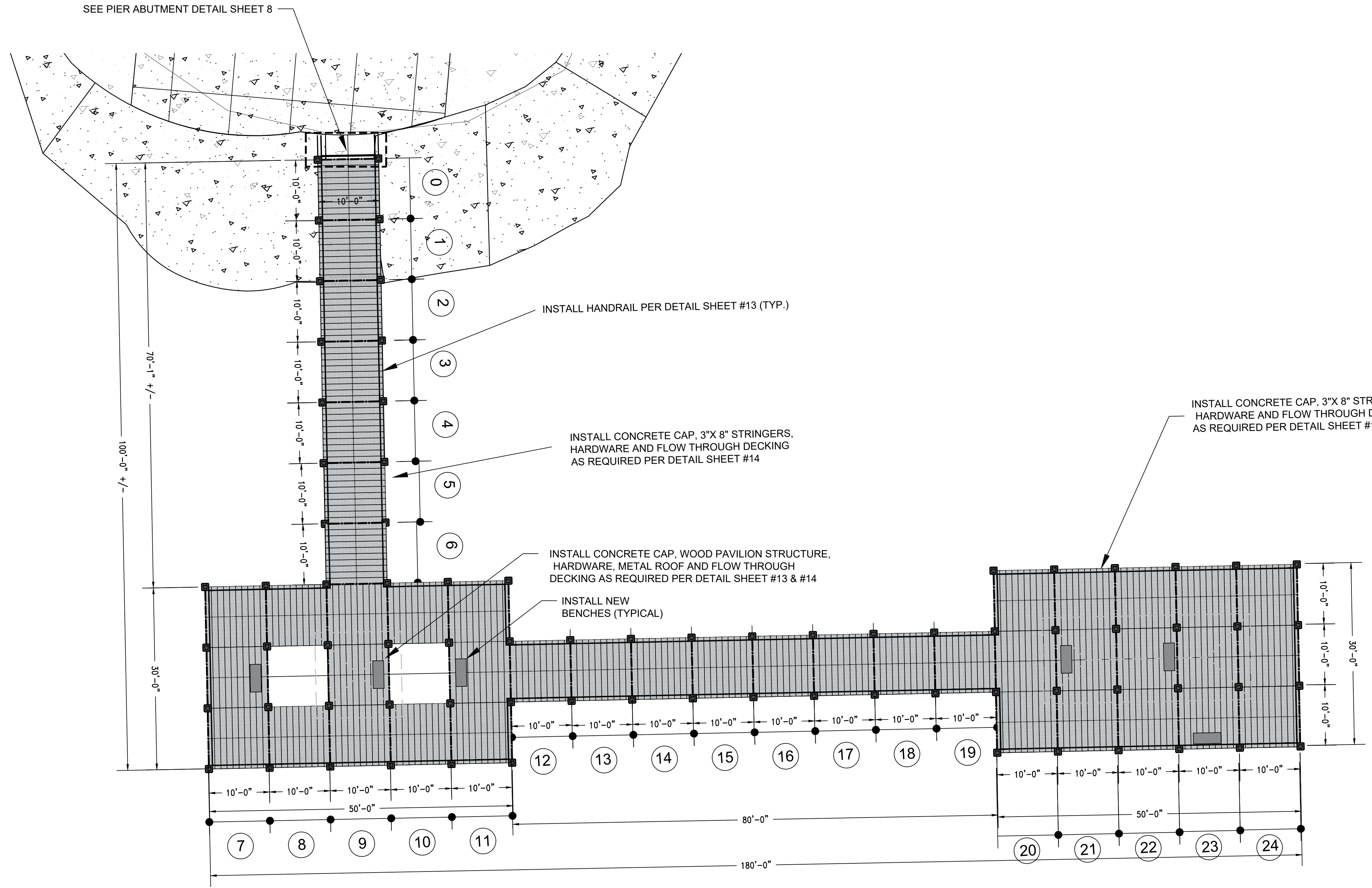


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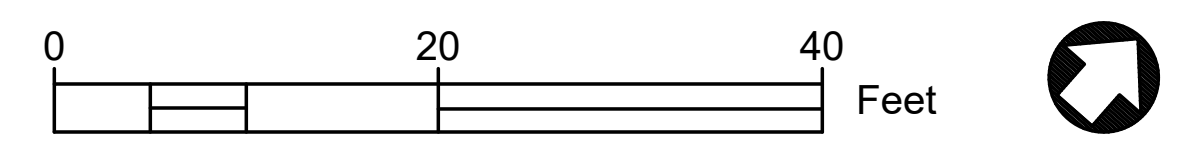
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<b>SOUTH PIER    PROPOSED    IMPROVEMENT    PLAN</b>	
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SCALE	1" = 10'
DRAWN BY	KP
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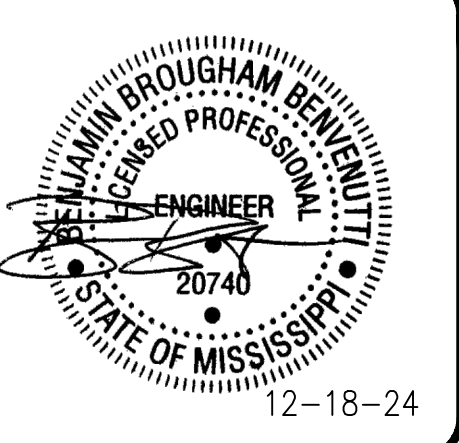
**SOUTH PIER  
 PROPOSED IMPROVEMENT PLAN**  
 SCALE: 1" = 40'

**BENCH NOTES:**  
 BENCHES ARE TO BE POLLY PRODUCTS ECONO-MIZER 4 FT. BACKED BENCH, CEDAR BENCH BROWN. TO BE FIELD LOCATED BY ENGINEER OR CITY'S REPRESENTATIVES.  
 BENCHES TO BE BOLTED TO DECKING IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS WITH STAINLESS STEEL HARDWARE. HARDWARE TO BE AN ABSORBED COST.



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NO.	DATE	REVISION/ISSUE
1	12-18-24	ISSUED FOR CONSTRUCTION
2	02-04-25	ISSUED FOR WORK DIRECTIVE #1

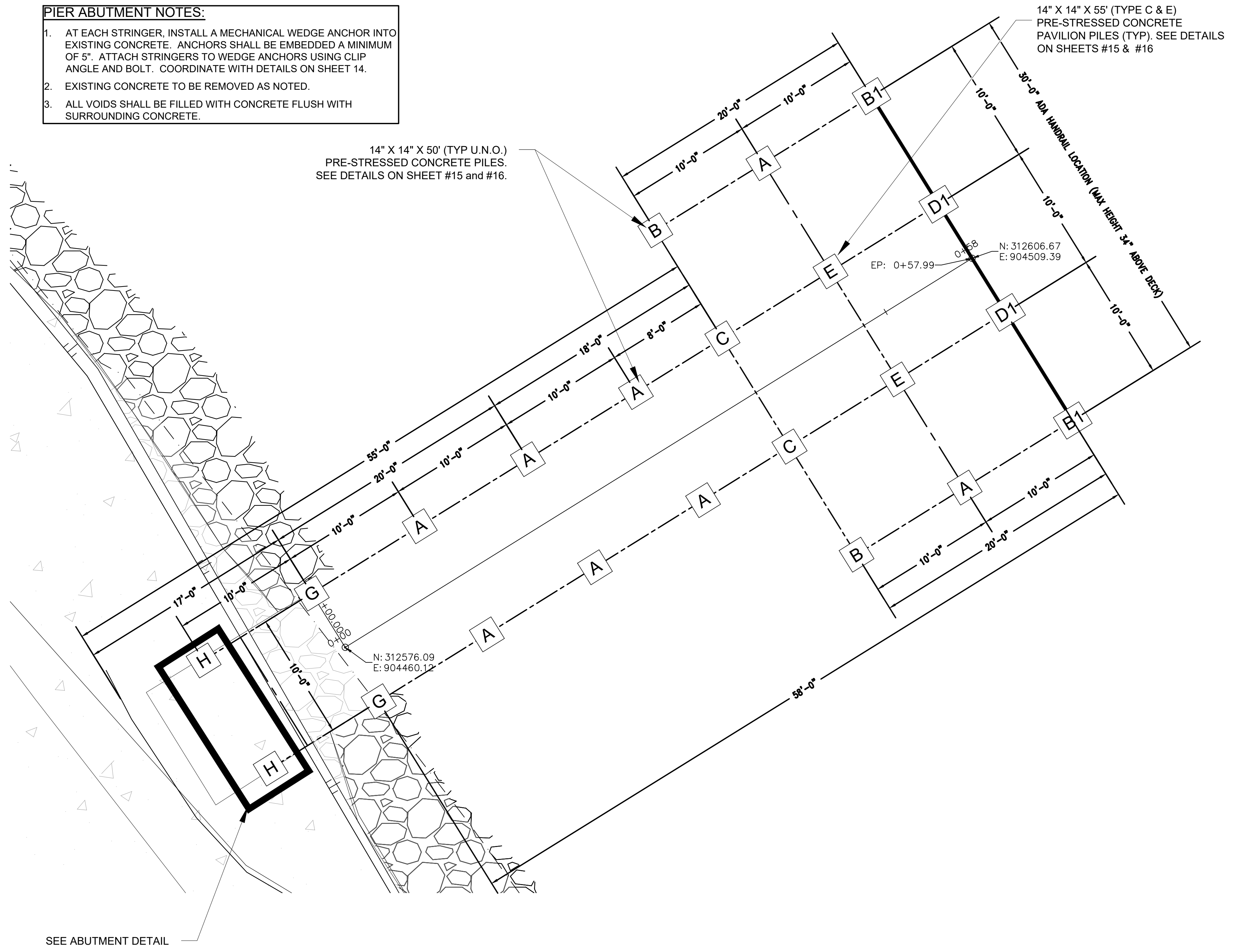
**REPAIR TO FRED URIE PIER  
AS A RESULT OF HURRICANE ZETA**

CITY OF GULFPORT

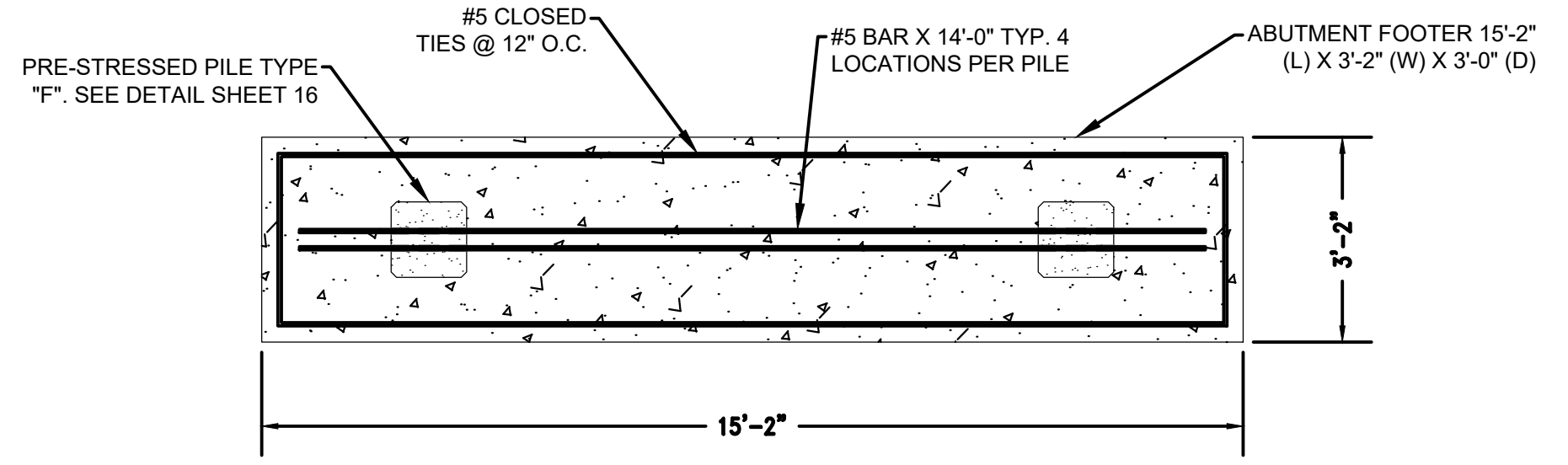
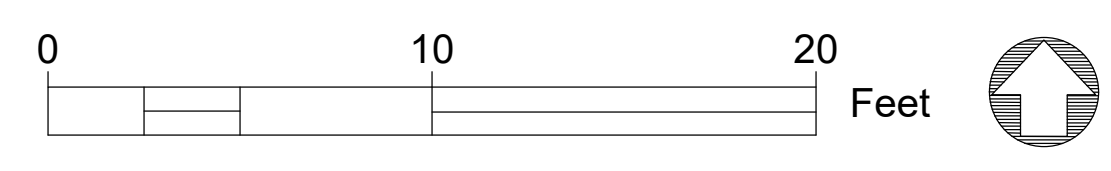
**EAST PIER  
PROPOSED  
PILE  
PLAN**

DATE: 8-12-24 SHEET NUMBER: 10 OF 19  
SCALE: 1" = 5'  
DRAWN BY: KP CHECKED BY: SM  
PROJECT NO.: 16405

- PIER ABUTMENT NOTES:**
1. AT EACH STRINGER, INSTALL A MECHANICAL WEDGE ANCHOR INTO EXISTING CONCRETE. ANCHORS SHALL BE EMBEDDED A MINIMUM OF 5". ATTACH STRINGERS TO WEDGE ANCHORS USING CLIP ANGLE AND BOLT. COORDINATE WITH DETAILS ON SHEET 14.
  2. EXISTING CONCRETE TO BE REMOVED AS NOTED.
  3. ALL VOIDS SHALL BE FILLED WITH CONCRETE FLUSH WITH SURROUNDING CONCRETE.



**EAST PIER  
PROPOSED PILE PLAN**  
SCALE: 1" = 5'

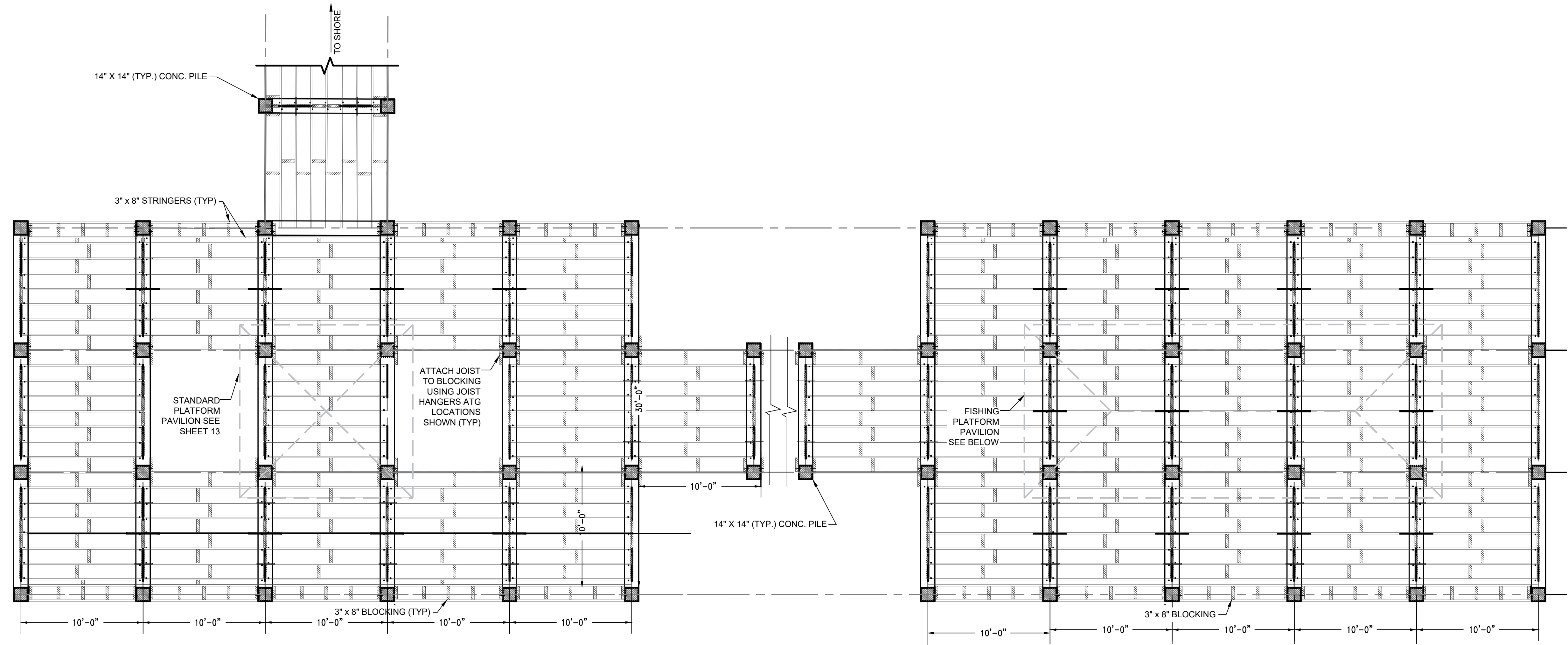


NOTE:  
SEE SHEET 14 FOR STRINGER CONNECTION DETAIL.

**ABUTMENT DETAIL**  
ISSUED FOR CONSTRUCTION

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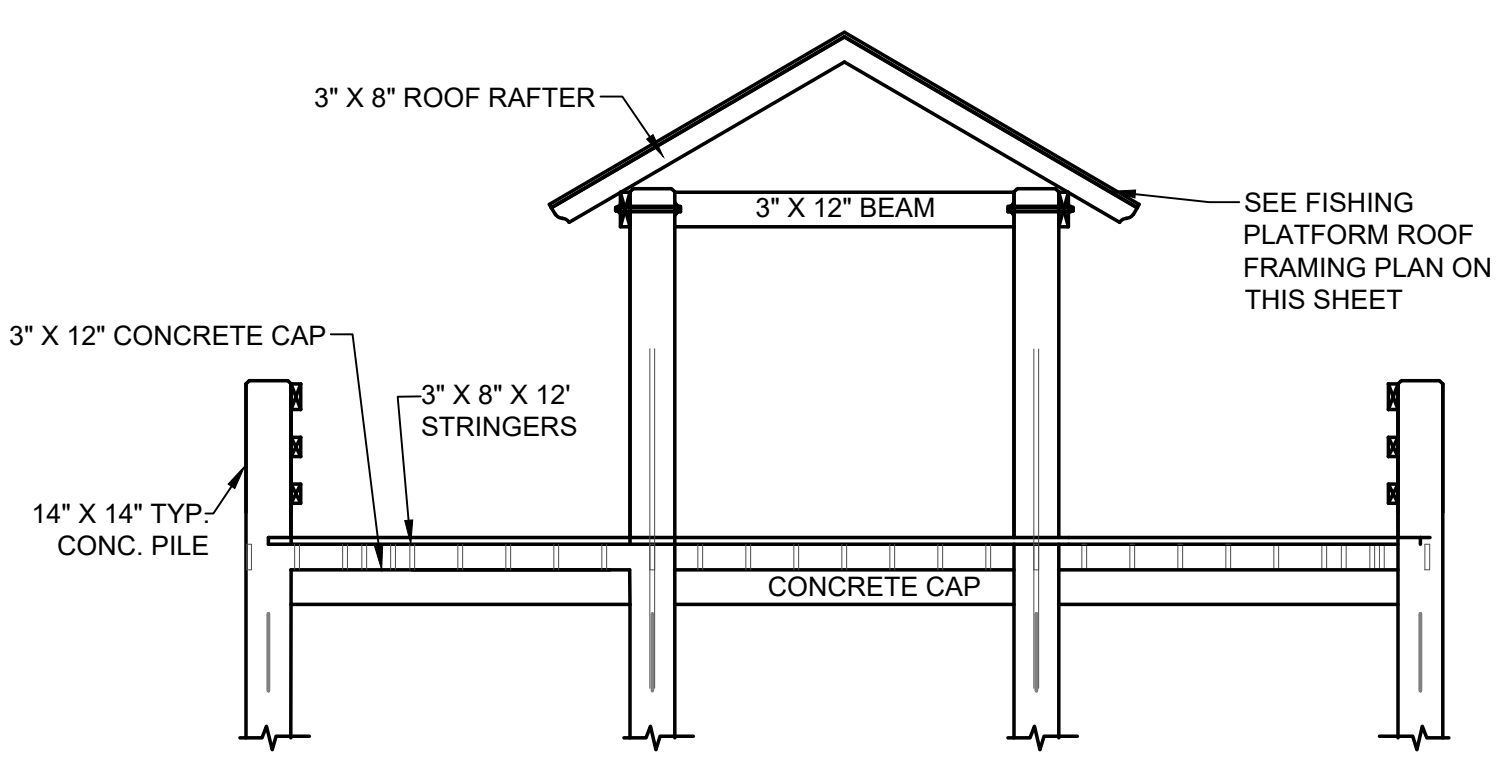


**FISHING PLATFORM NO. 1  
 LAYOUT PLAN**

0 10 20 Feet

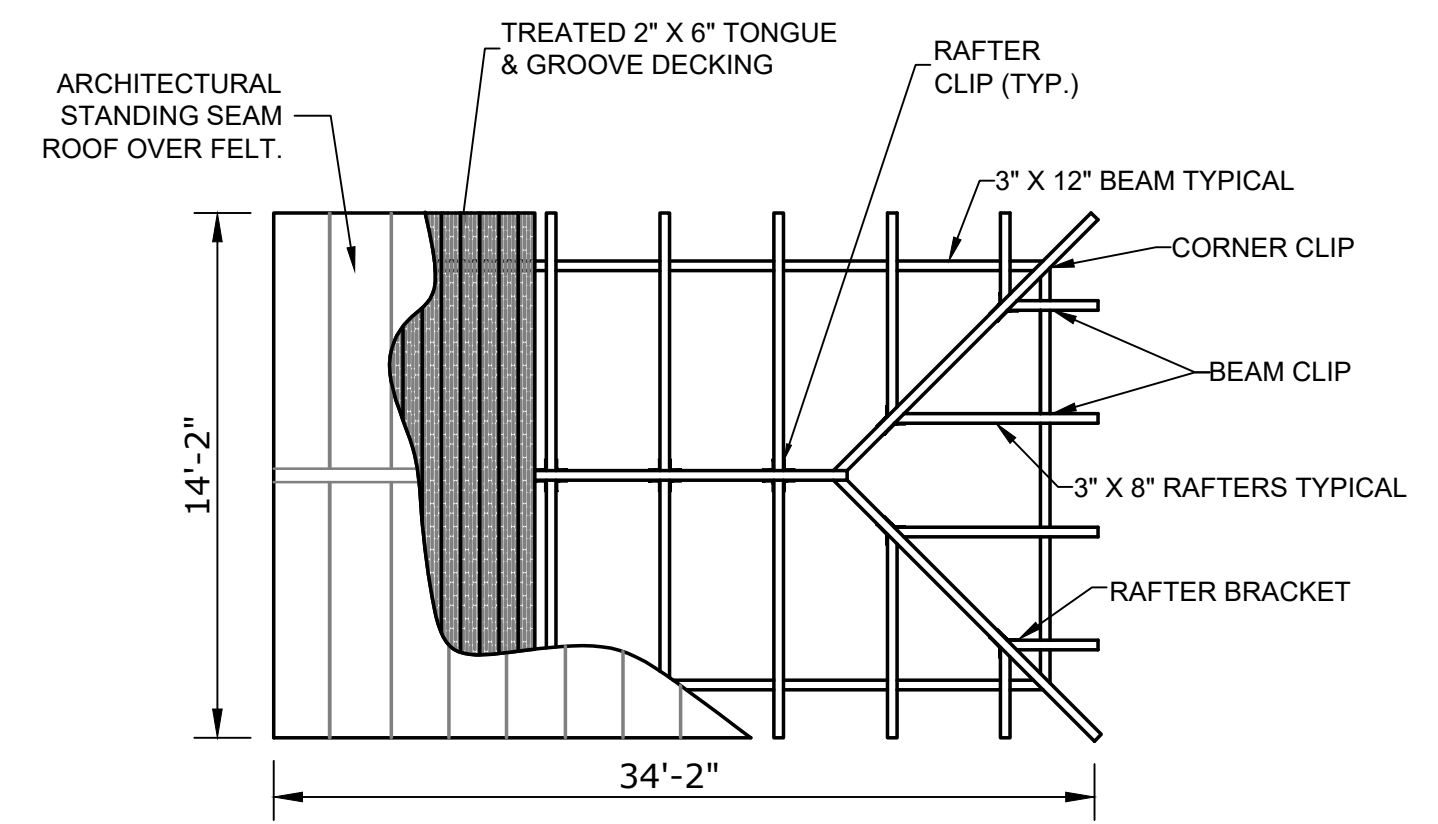
**FISHING PLATFORM NO. 2  
 LAYOUT PLAN**

NO.	DATE	REVISION/ISSUE
1	12-18-24	ISSUED FOR CONSTRUCTION

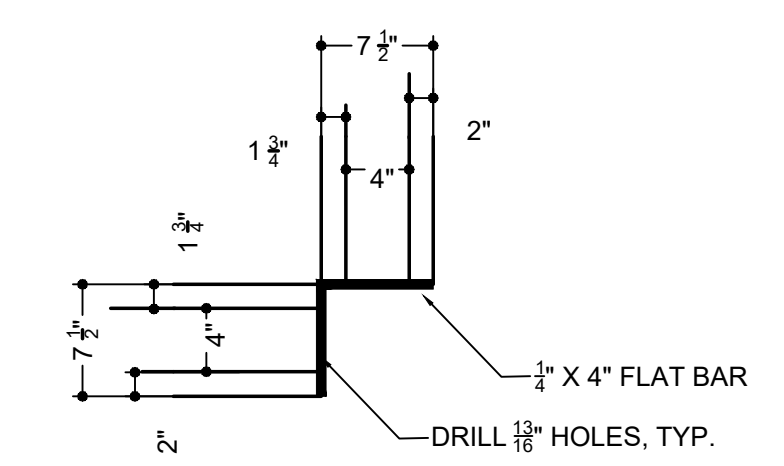


**PAVILION SECTOIN**  
 SCALE: NTS

**ROOFING NOTES:**  
 ALL BOLTS SHALL BE 5/8" S.S. FIN. NECK TIMBER BOLT (DOME HEAD ON INSIDE) WITH S.S. OEGEE WASHER AND NUT.  
 ROOF HARDWARE SHALL NOT PUNCTURE THROUGH TONGUE & GROOVE DECKING.  
 STANDING SEAM ROOF TO MATCH GULFPORT MOSES PIER INSTALLATION.



**FISHING PLATFORM PAVILION  
 ROOF FRAMING PLAN**  
 SCALE: N.T.S.



**RAFTER BRACKET DETAIL**

ISSUED FOR CONSTRUCTION

**REPAIR TO FRED URIE PIER  
 AS A RESULT OF HURRICANE ZETA**  
 CITY OF GULFPORT

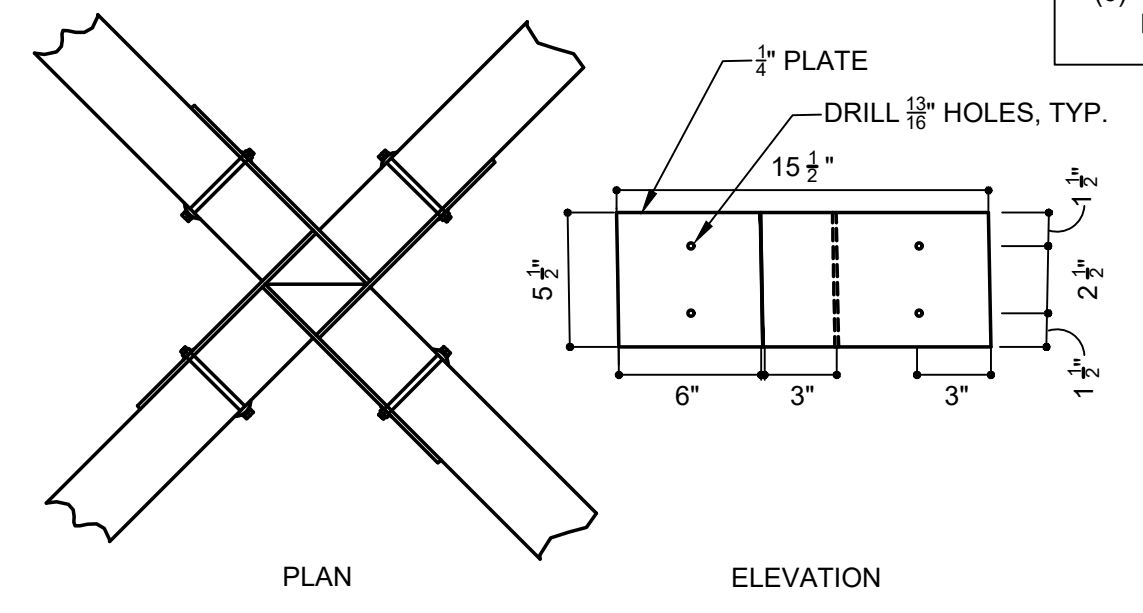
**SOUTH PIER PLATFORM LAYOUT**

DATE	8-12-24	SHEET NUMBER	12 OF 19
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DRAWN BY	KP	CHECKED BY	SM
PROJECT NO.	16405		

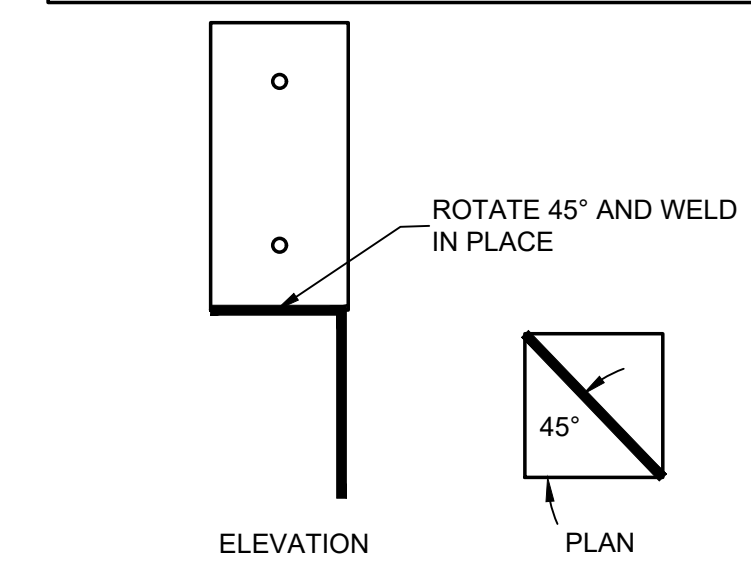
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**ROOFING NOTES:**  
ALL BOLTS SHALL BE 5/8" S.S. FIN. NECK TIMBER BOLT (DOME HEAD ON INSIDE) WITH S.S. OGEE WASHER AND NUT.  
ROOF HARDWARE SHALL NOT PUNCTURE THROUGH TONGUE & GROOVE DECKING.  
STANDING SEAM ROOF TO MATCH GULFPORT MOSES PIER INSTALLATION.

(6) BENCHES TO TO BE REPLACED IN KIND. TO BE FIELD LOCATED BY ENGINEER OR CITY'S REPRESENTATIVE.

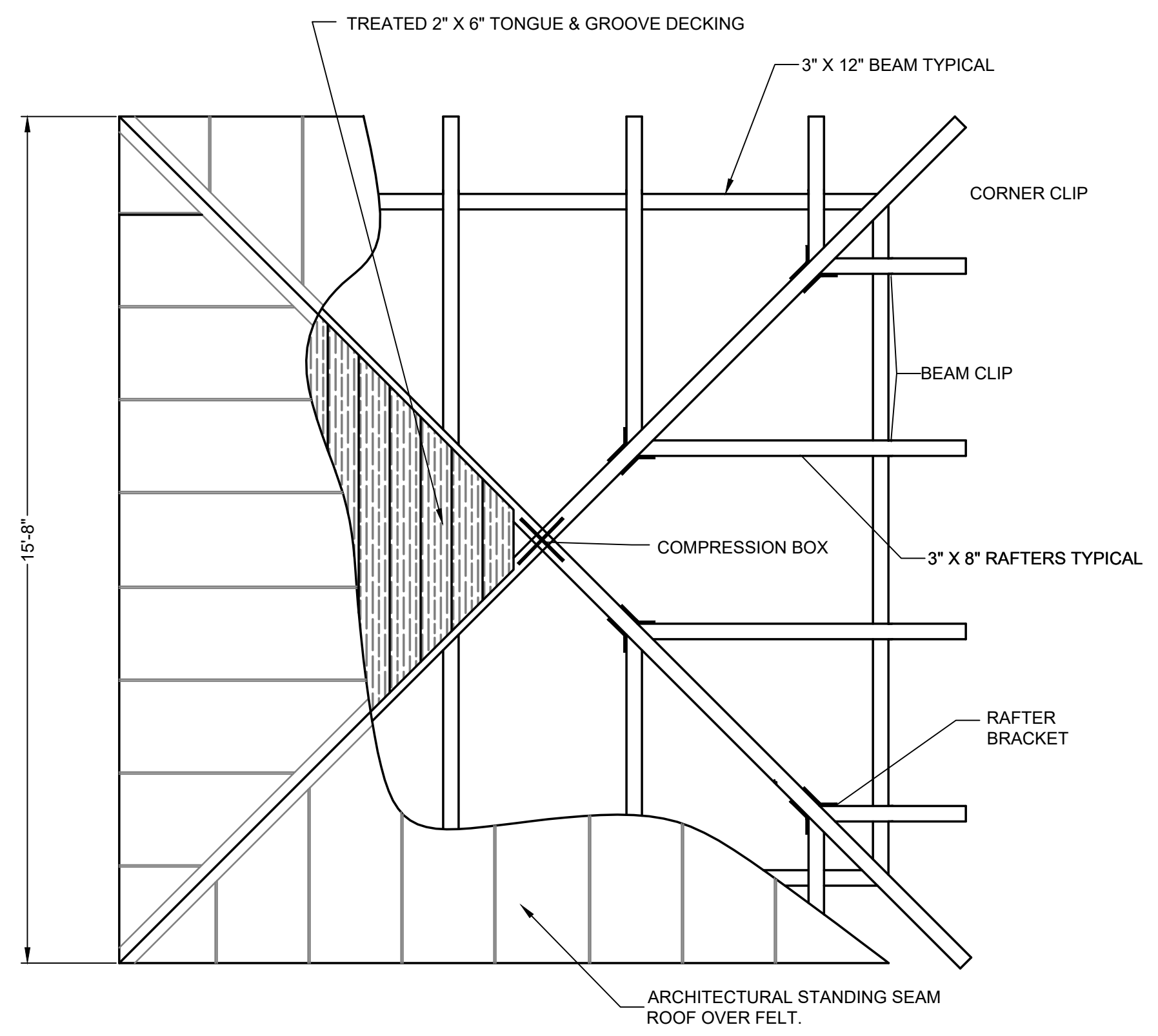


**COMPRESSION BOX DETAIL**



**CORNER BEAM CLIP DETAIL**

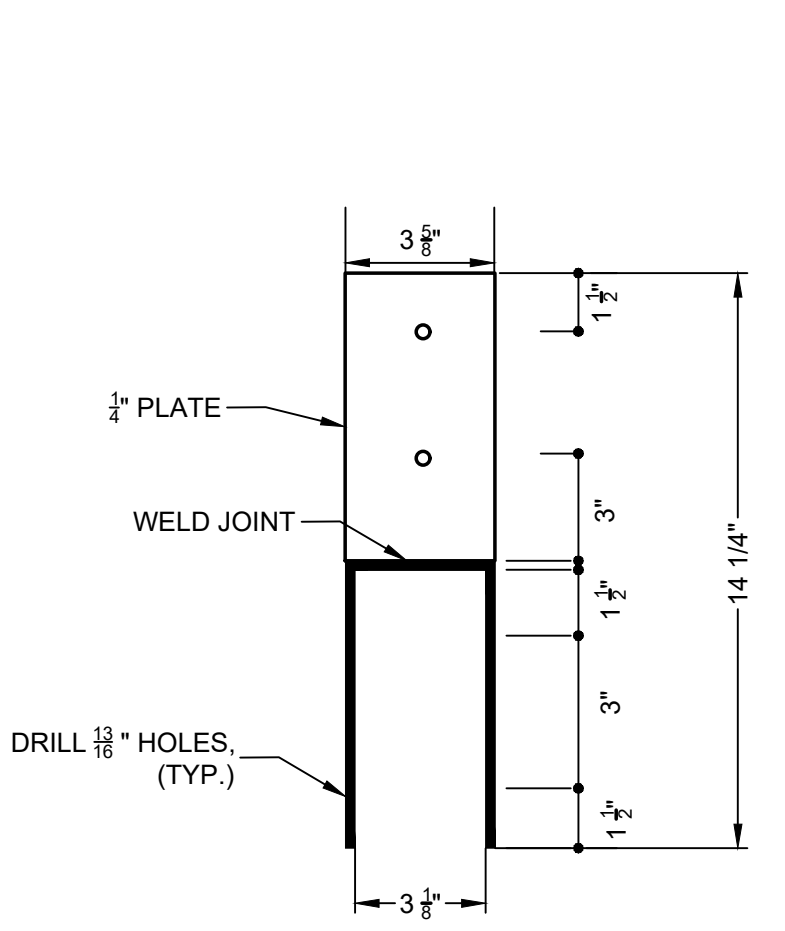
NOTE:  
CORNER BEAM CLIP D1MS  
S1M TO BEAM CLIP BELOW



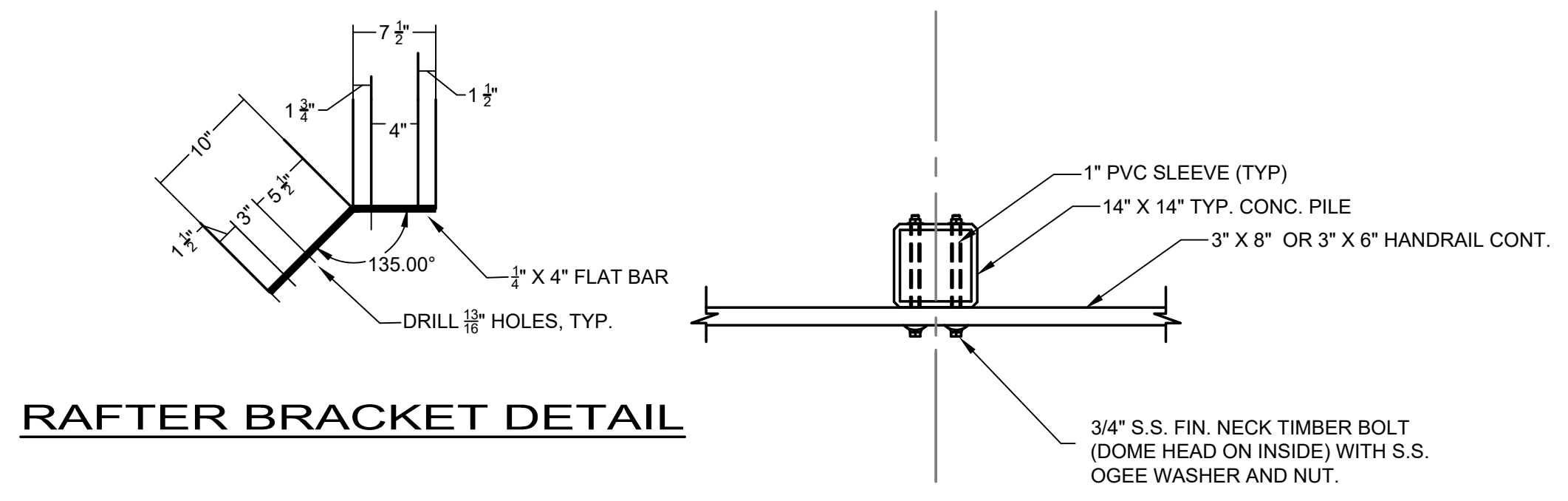
**PROPOSED ROOF PLAN**

SCALE: 1/2" = 1'-0"

-ALL HARDWARE SHALL  
BE SIMPSON STRONG-TIE  
OR EQUAL.



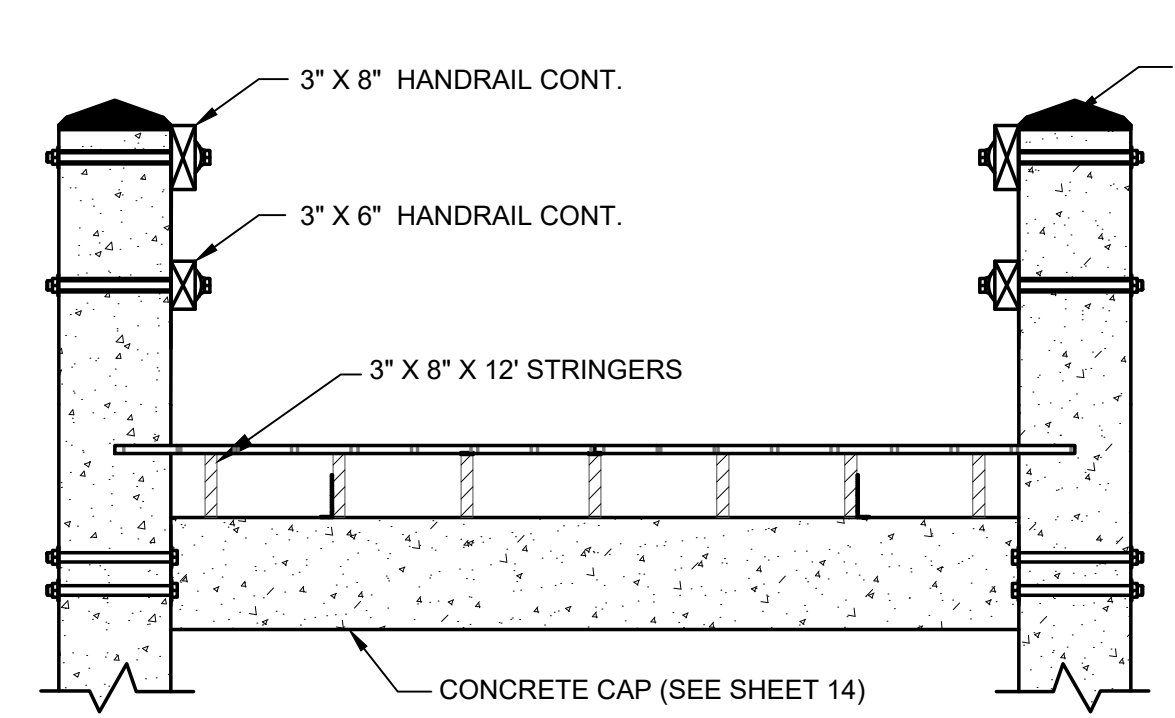
**BEAM CLIP DETAIL**



**RAFTER BRACKET DETAIL**

**PROPOSED HANDRAIL CONNECTION DETAIL**

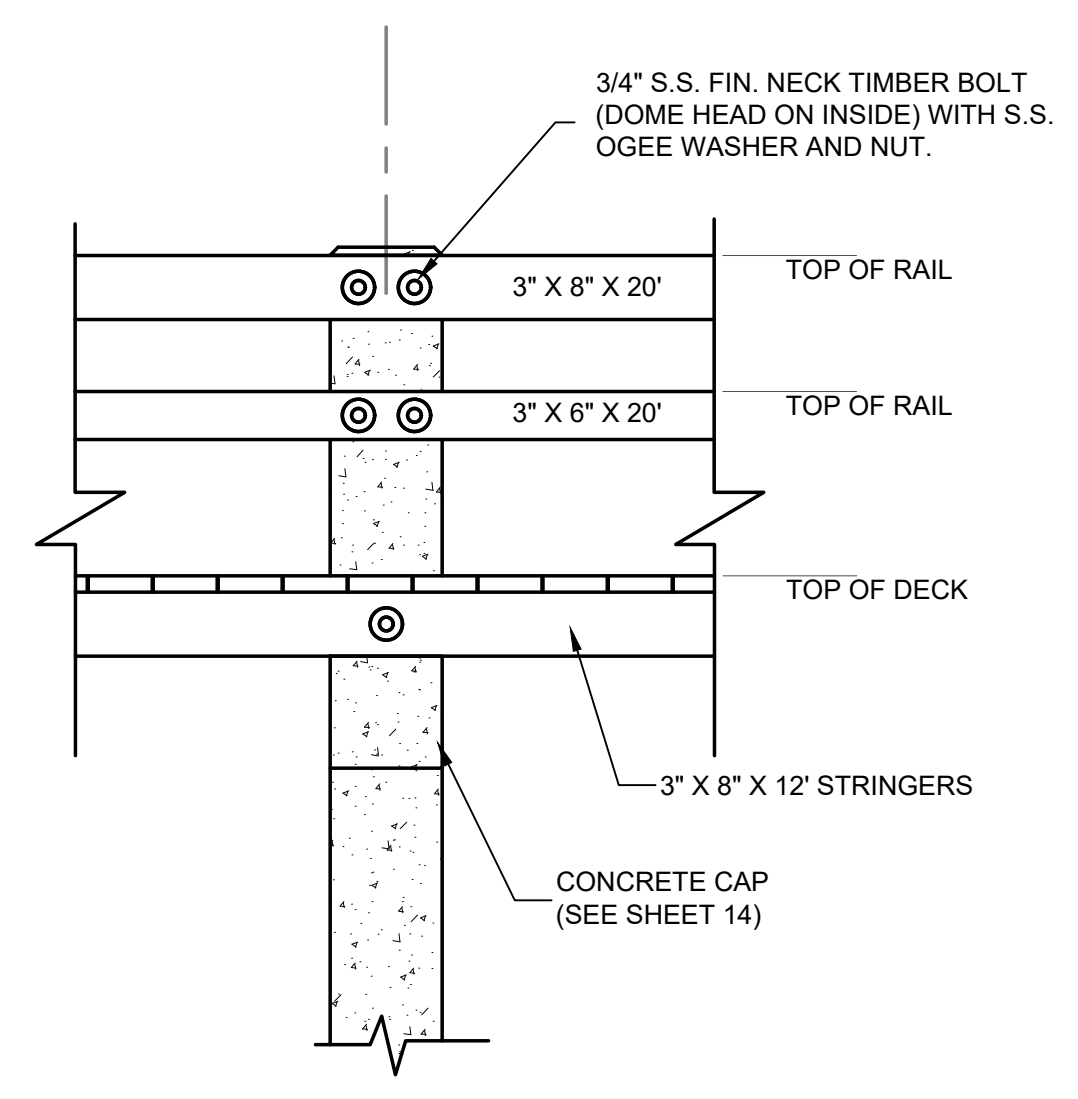
SCALE: 1/2" = 1'-0"



**PROPOSED HANDRAIL SECTION**

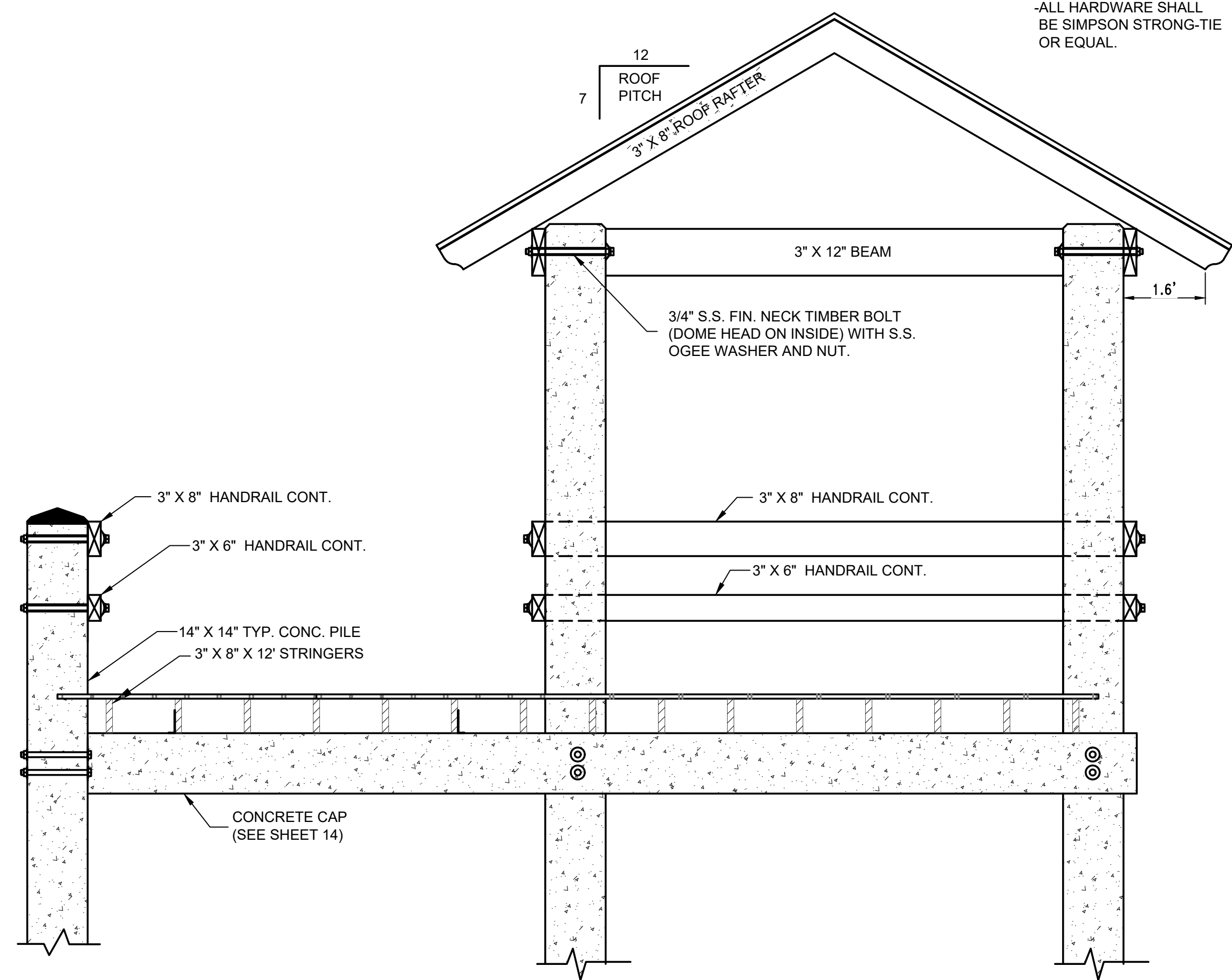
SCALE: 1/2" = 1'-0"

BLACK PVC PILE CAPS  
(SECURE W/ FOUR 1/2" X 1" STAINLESS  
STEEL EXPANSION ANCHORS)



**PROPOSED HANDRAIL DETAIL**

SCALE: 1/2" = 1'-0"



**PROPOSED PLATFORM SECTION**

SCALE: 1/2" = 1'-0"

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1	12-18-24	ISSUED FOR CONSTRUCTION

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AS A RESULT OF HURRICANE ZETA  
CITY OF GULFPORT

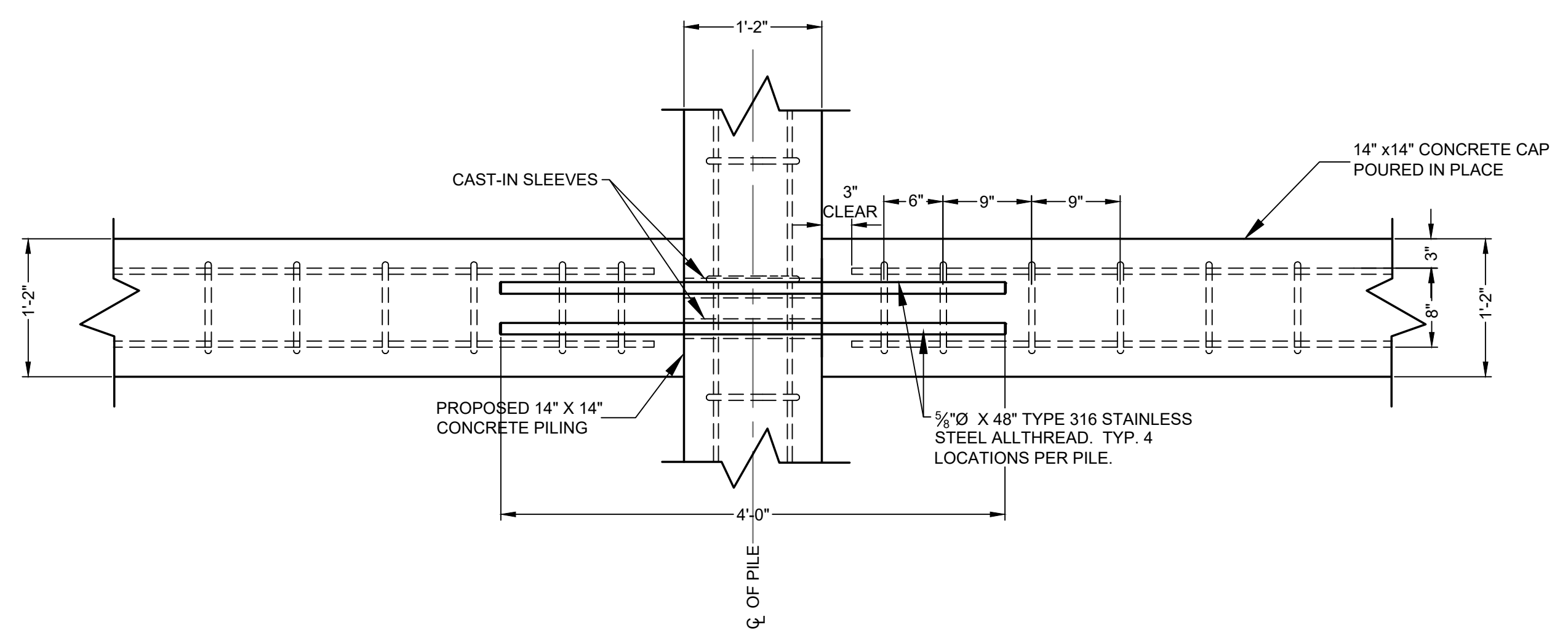
DATE	SHEET NUMBER
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TYPICAL SECTIONS

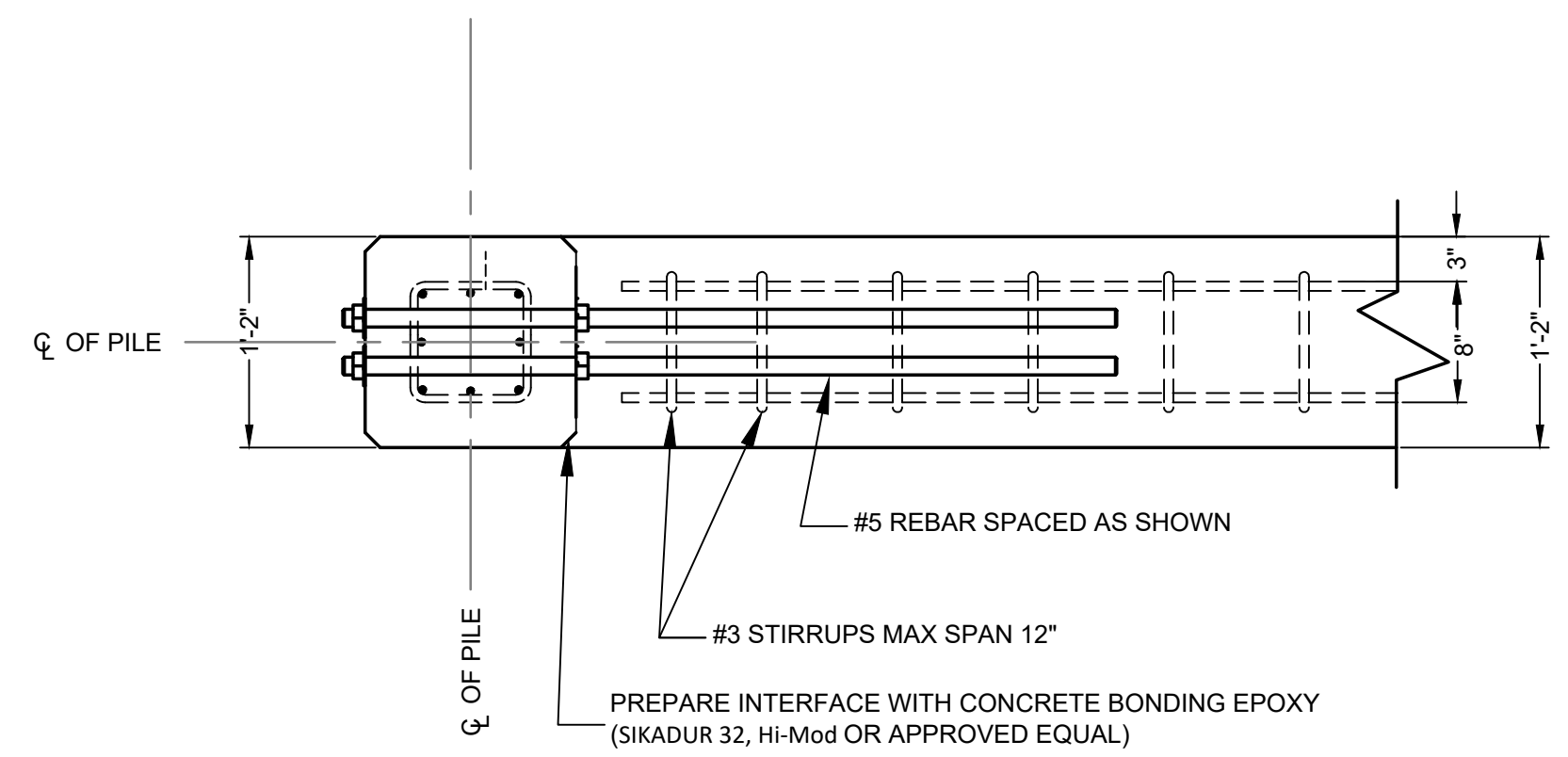
SCALE: AS NOTED  
DRAWN BY: KP  
CHECKED BY: SM  
PROJECT NO.: 16405

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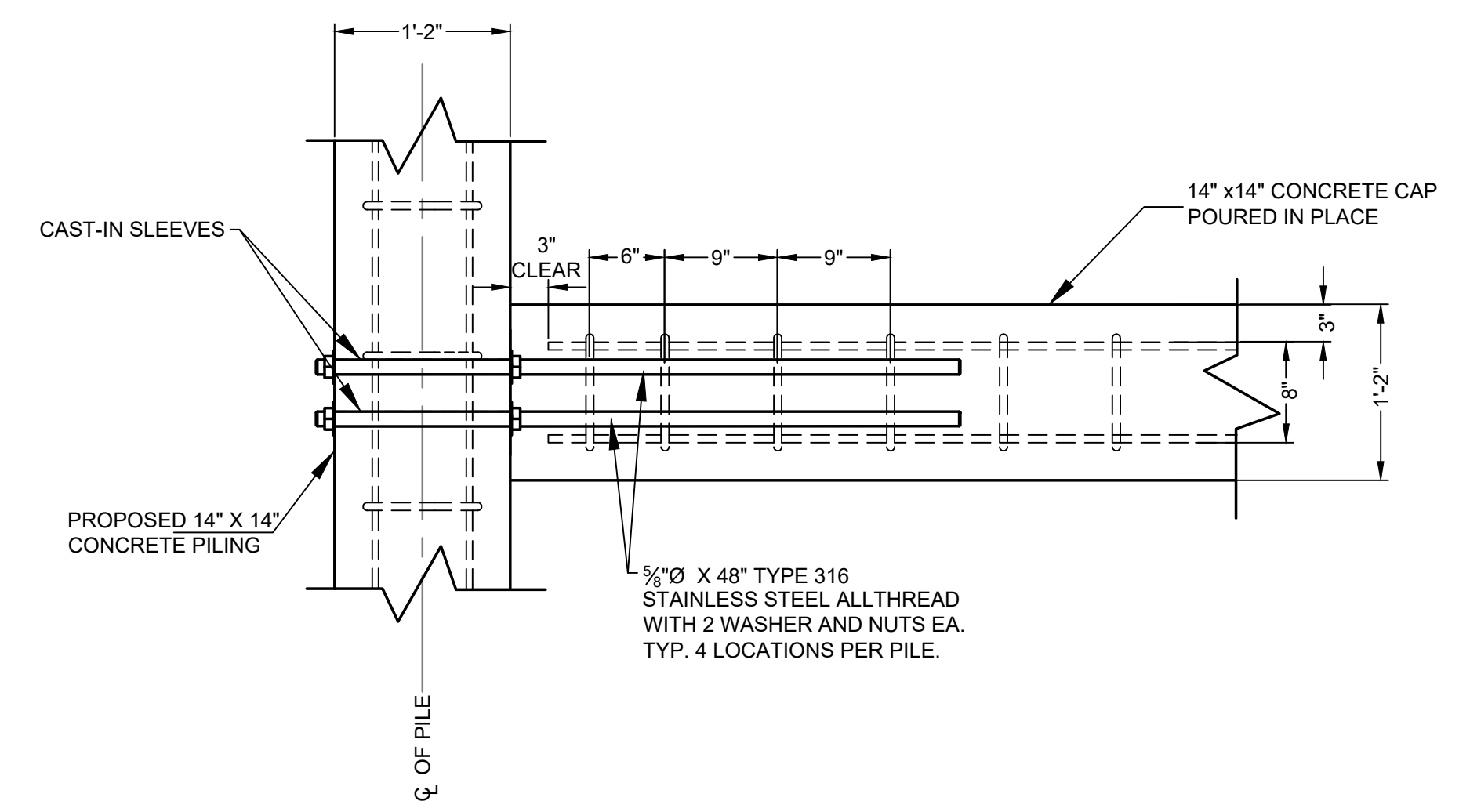
**NOTES:**  
 FLOW THROUGH DECKING SHALL BE LEGACY XP SERIES MANUFACTURED BY THRUFLOW PREMIUM DECKING SOLUTIONS (OR APPROVED EQUAL). COLOR TO BE APPROVED BY ENGINEER.  
 FASTENERS FOR DECKING SHALL BE 316 STAINLESS STEEL AS SPECIFIED BY THE MANUFACTURER.  
 HARDWARE/CONNECTORS SHALL BE TYPE 316 STAINLESS STEEL AND SHALL BE THE FOLLOWING PRODUCTS OR APPROVED EQUAL.  
 MECHANICAL ANCHOR - MCMaster CARR PN97799A303  
 STRAP-TIE HOLDDOWN - SIMPSON STRONG-TIE CS16  
 STRAP-TIE - SIMPSON STRONG-TIE MSTA  
 ALL FASTENERS SHALL BE TYPE 316 STAINLESS STEEL SIMPSON STRONG-DRIVE SD CONNECTOR #10 SCREWS OR APPROVED EQUAL UNLESS OTHERWISE NOTED ON PLANS.  
 BLOCKING SHALL HAVE THREE (3) SCREWS AT EACH CONNECTION POINT.  
 CONTRACTOR TO POUR CONCRETE CAPS LEVEL AND MAINTAIN THE PROPER ELEVATION TO ENSURE A LEVEL PIER DECK.



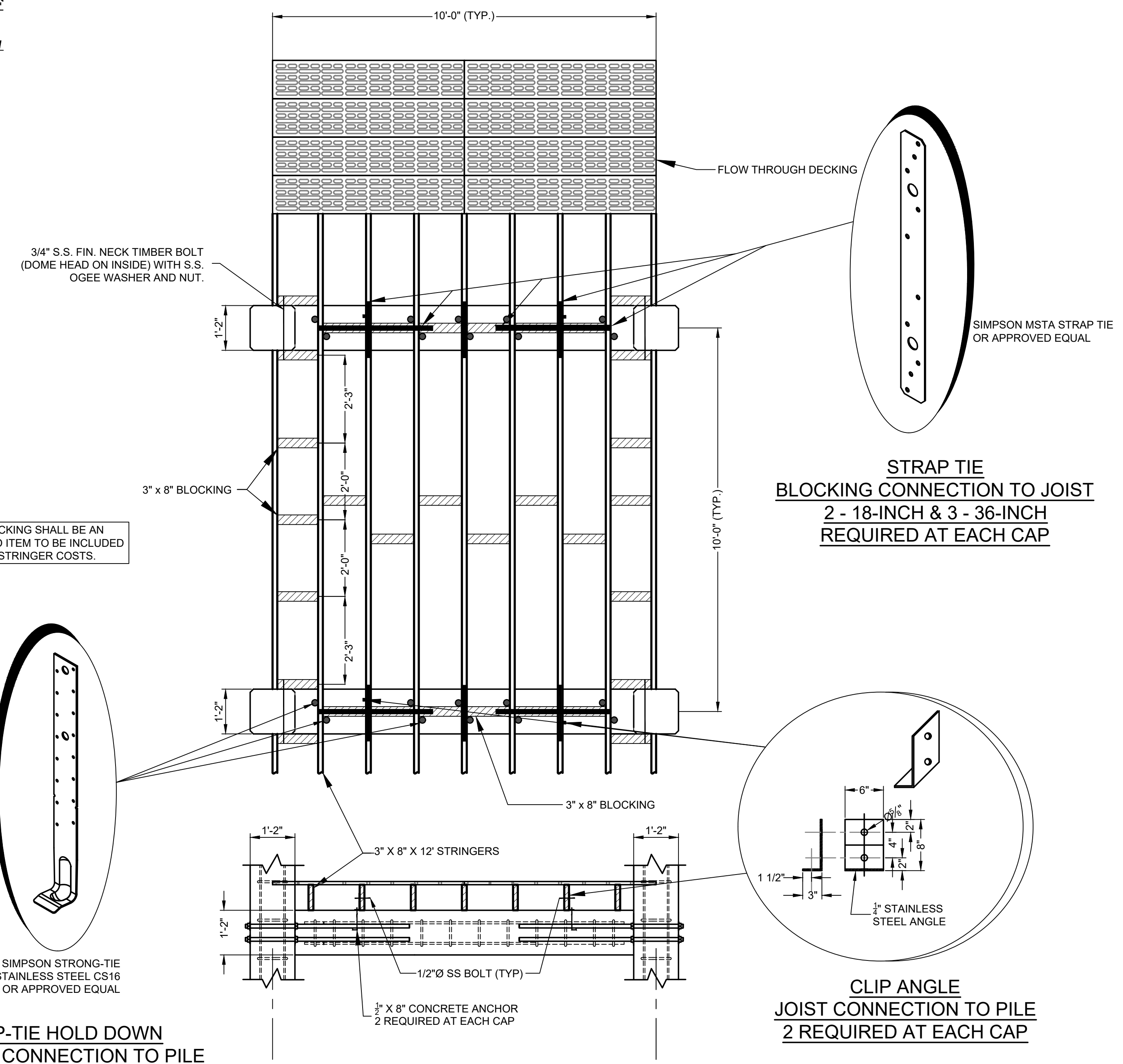
**PILE CAP CONNECTION AT PILE TYPE "C", "D", AND "E"**  
 SCALE: 1/2" = 1'-0"



**PILE CAP CONNECTION PLAN**  
 SCALE: 1/2" = 1'-0"



**PILE CAP CONNECTION SECTION**  
 SCALE: 1/2" = 1'-0"



**PIER PLAN WITH FLOW THROUGH DECKING**  
 SCALE: 1/2" = 1'-0"

3" x 8" BLOCKING SHALL BE AN ABSORBED ITEM TO BE INCLUDED WITH THE STRINGER COSTS.

**STRAP-TIE HOLD DOWN BLOCKING CONNECTION TO PILE**  
 10 REQUIRED AT EACH CAP

**STRAP TIE BLOCKING CONNECTION TO JOIST**  
 2 - 18-INCH & 3 - 36-INCH REQUIRED AT EACH CAP

**CLIP ANGLE JOIST CONNECTION TO PILE**  
 2 REQUIRED AT EACH CAP

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**REPAIR TO FRED URIE PIER AS A RESULT OF HURRICANE ZETA**  
 CITY OF GULFPORT

**PROPOSED MITIGATION DETAILS**

DATE	8-12-24	SHEET NUMBER	14 OF 19
SCALE	AS NOTED		
DRAWN BY	KP	CHECKED BY	SM
PROJECT NO.	16405		

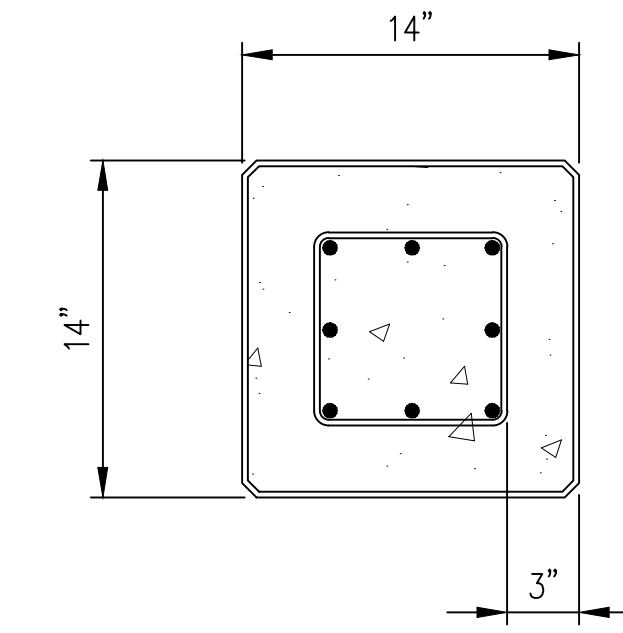
ISSUED FOR CONSTRUCTION

**PRE-STRESSED CONCRETE NOTES:**

1. CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 6,000 PSI AND A MINIMUM RELEASE COMPRESSIVE STRENGTH OF 4,000 PSI PRIOR TO THE TRANSFER OF PRE-STRESS. SHALL CONFORM TO THE REQUIREMENTS OF ACI 357.3R-14 GUIDE FOR DESIGN AND CONSTRUCTION MARINE STRUCTURES OF WATERFRONT AND COASTAL CONCRETE MARINE SPECIFICATIONS.
2. PILE MANUFACTURE SHALL BE IN ACCORDANCE WITH PRECAST/PRESTRESSED CONCRETE INSTITUTE (PCI) MNL-116-21 QC MANUAL FOR STRUCTURAL PRECAST CONCRETE.
3. PRE-STRESSING STRANDS SHALL BE 270K LOW-RELAXATION SEVEN-WIRE STEEL STRAND CONFORMING TO THE REQUIREMENTS OF ASTM A-416. SPIRAL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-82.
4. PILING SHALL BE DESIGNED BY PILE MANUFACTURER FOR MINIMUM PRESTRESS AFTER LOSSES OF 700 PSI.
5. STRAND ENDS SHALL BE RECESSED A MINIMUM OF 1". RECESS SHALL BE FILLED WITH AN APPROVED NON-SHRINK GROUT.
6. FROM THE PILE TOP TO THE LOWEST SLEEVE SHALL BE GIVEN A CLASS "1" FINISH. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND WITH APPROVAL OF THE ENGINEER (OWNER OR HIS AUTHORIZED REPRESENTATIVE).
7. PILES SHALL BE A MINIMUM OF 14-DAYS OLD PRIOR TO INSTALLATION.
8. ALL EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER OR 1 1/2" RADIUS.
9. SLEEVES SHALL BE ONE INCH ID SCHEDULE 40 PIPE UNLESS INDICATED OTHERWISE, SLEEVES MAY BE MOVED SLIGHTLY OFF CENTER IF THEY CONFLICT W/ REINFORCING.

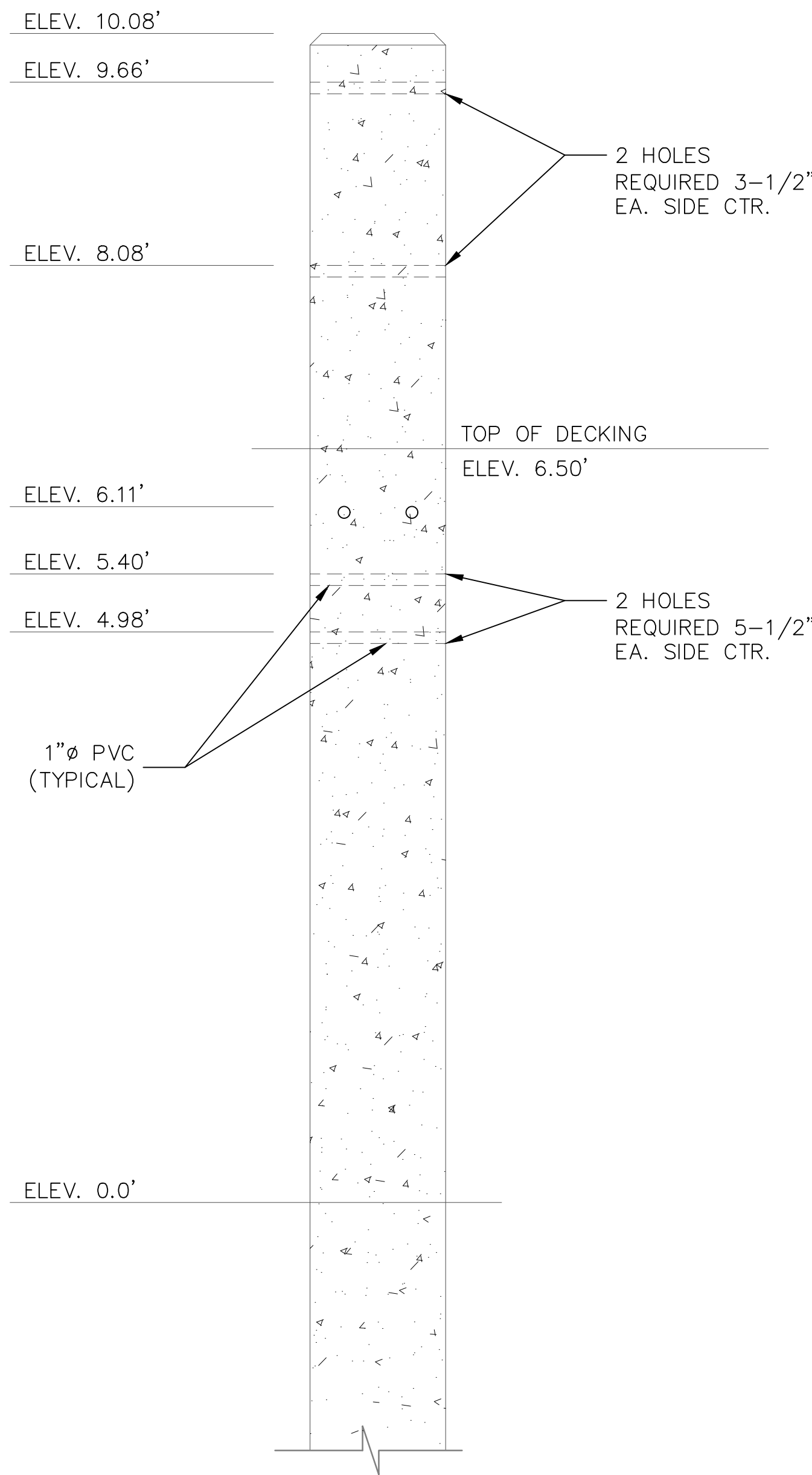
**PILE NOTES:**

CONTRACTOR TO VERIFY AND MAINTAIN ELEVATIONS THROUGHOUT CONSTRUCTION.



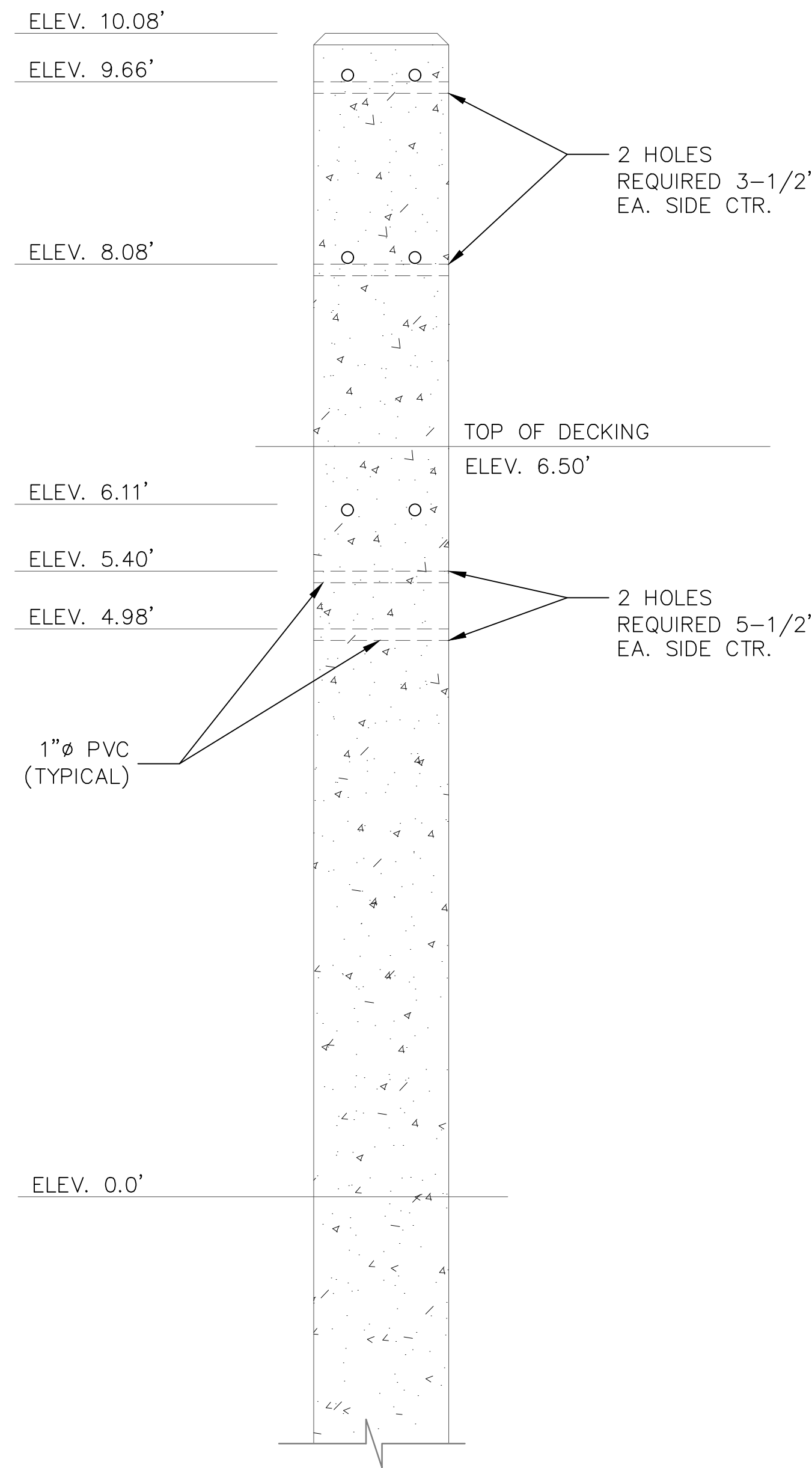
**CONCRETE PILE SECTION**

SCALE: 1-1/2" = 1'-0"



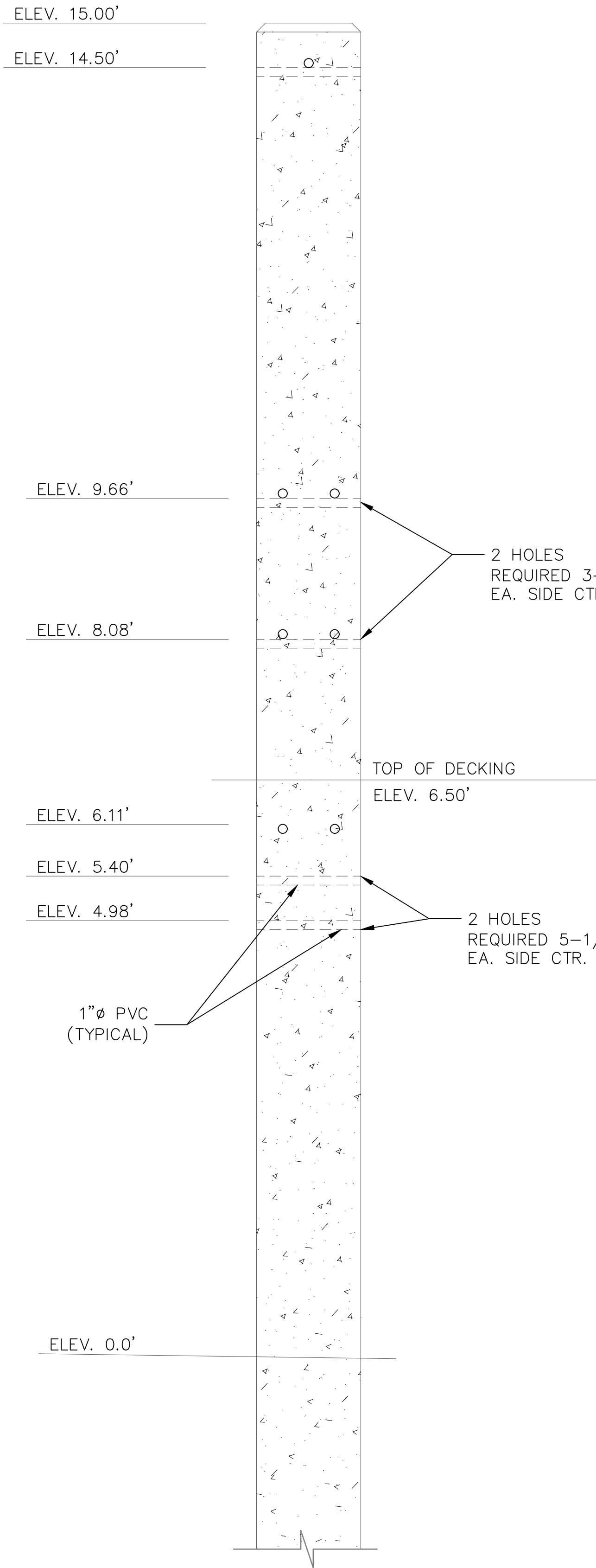
**CONCRETE PILE ELEVATION - TYPE A**

SCALE: 1" = 1'-0"



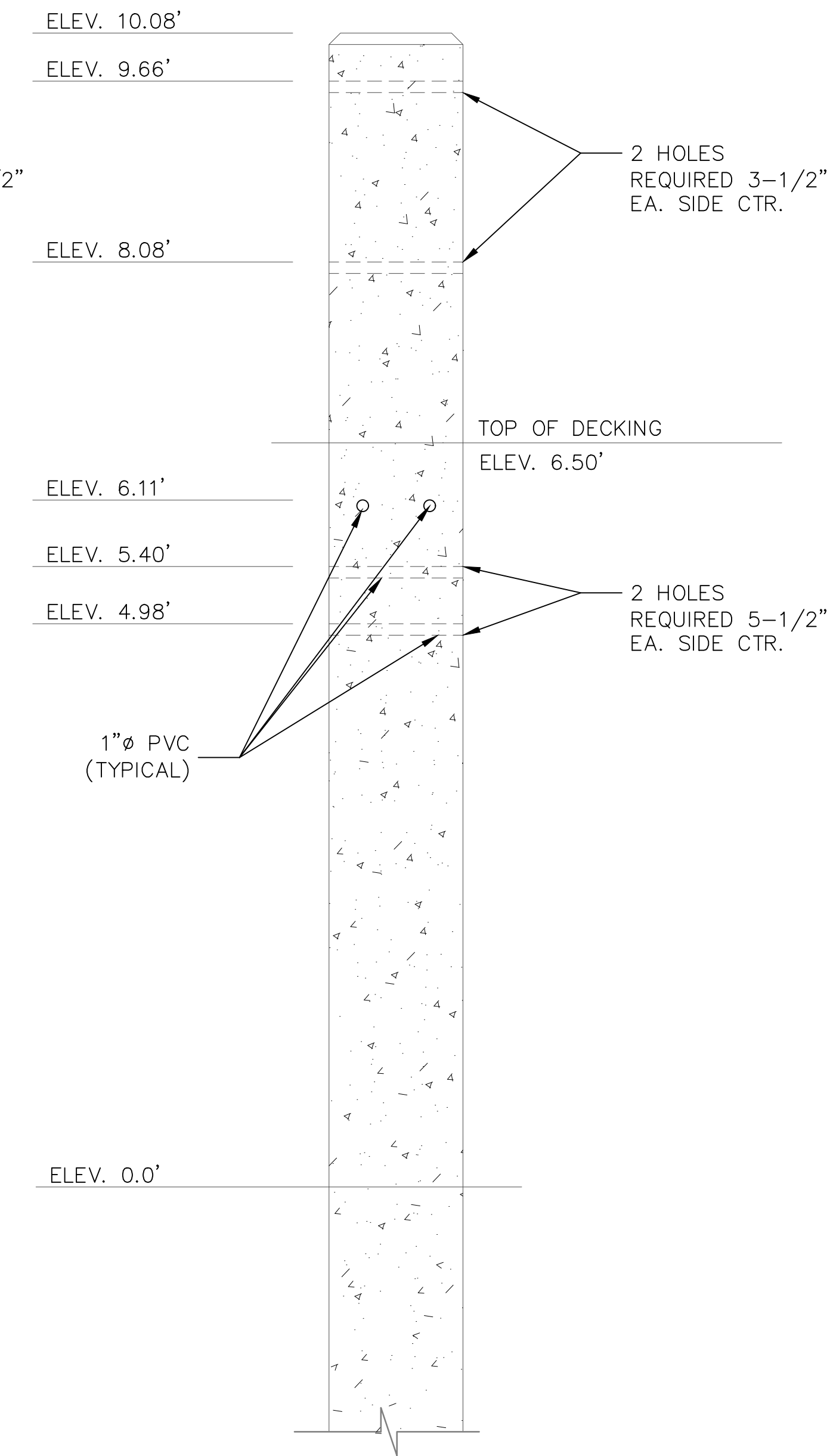
**CONCRETE PILE ELEVATION - TYPE B**

SCALE: 1" = 1'-0"



**CONCRETE PILE ELEVATION - TYPE C**

SCALE: 1" = 1'-0"



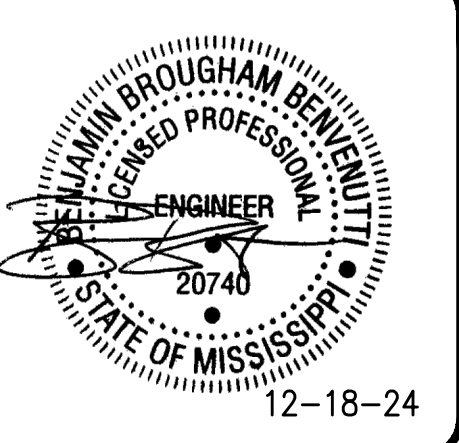
**CONCRETE PILE ELEVATION - TYPE D**

SCALE: 1" = 1'-0"

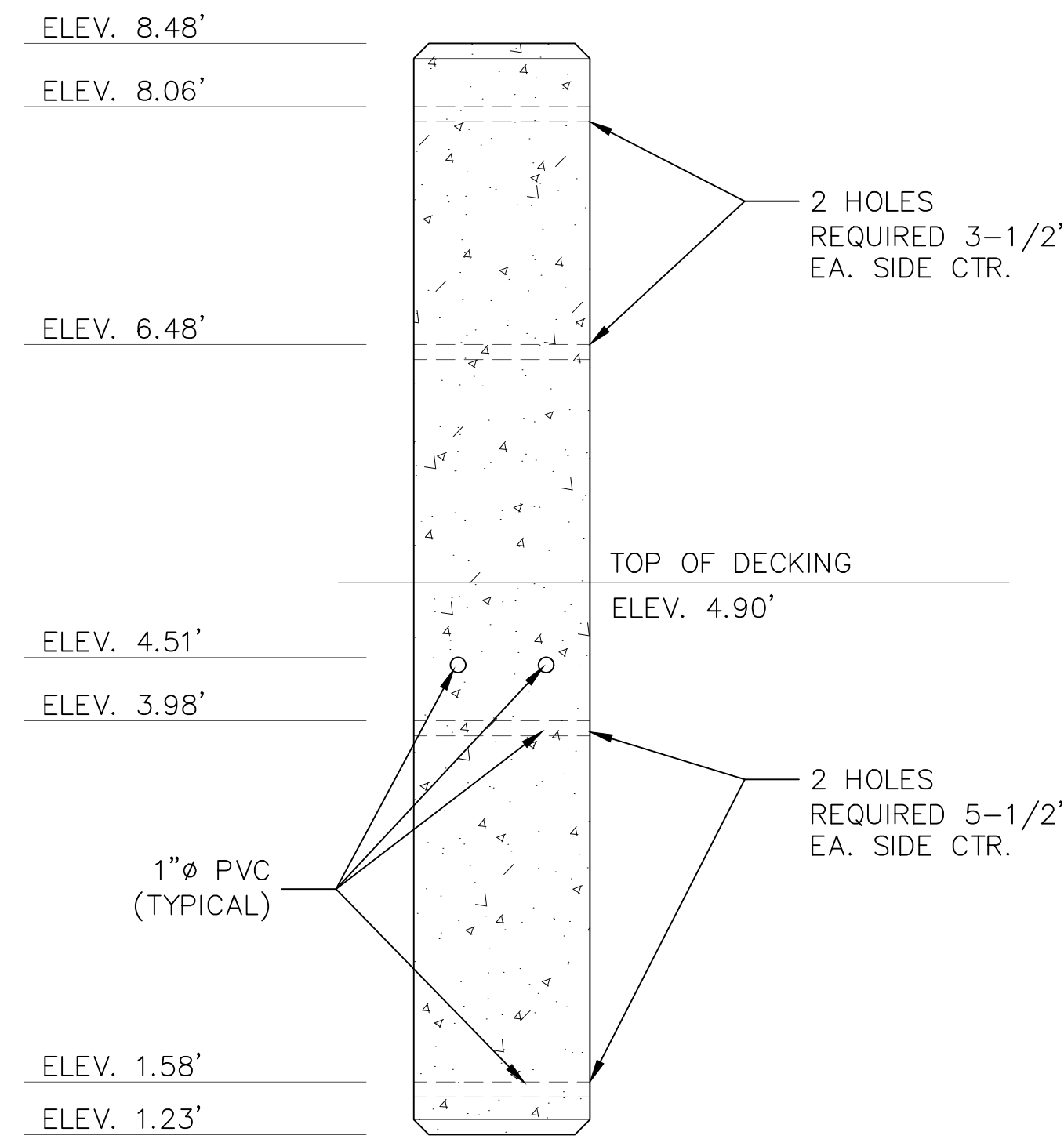
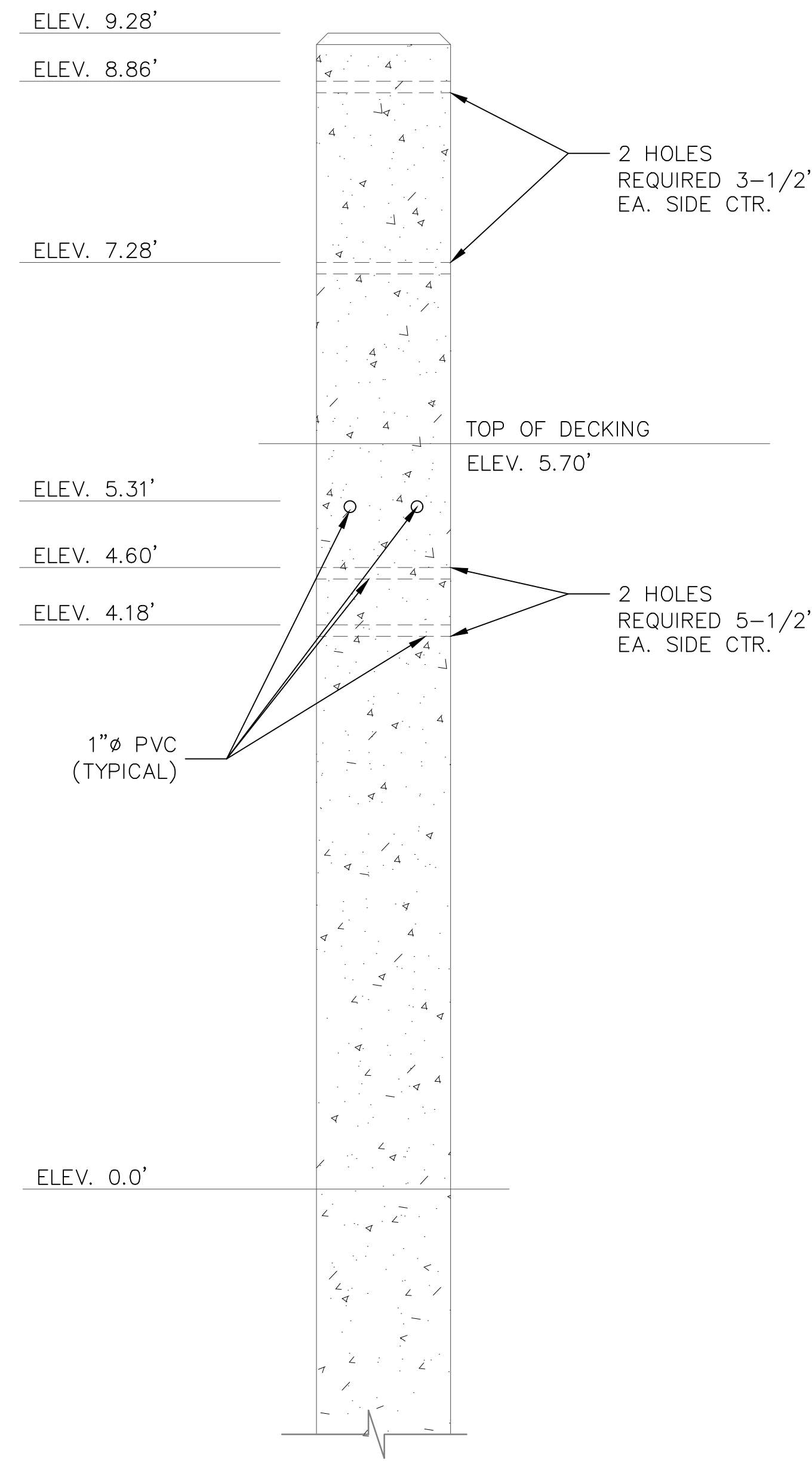
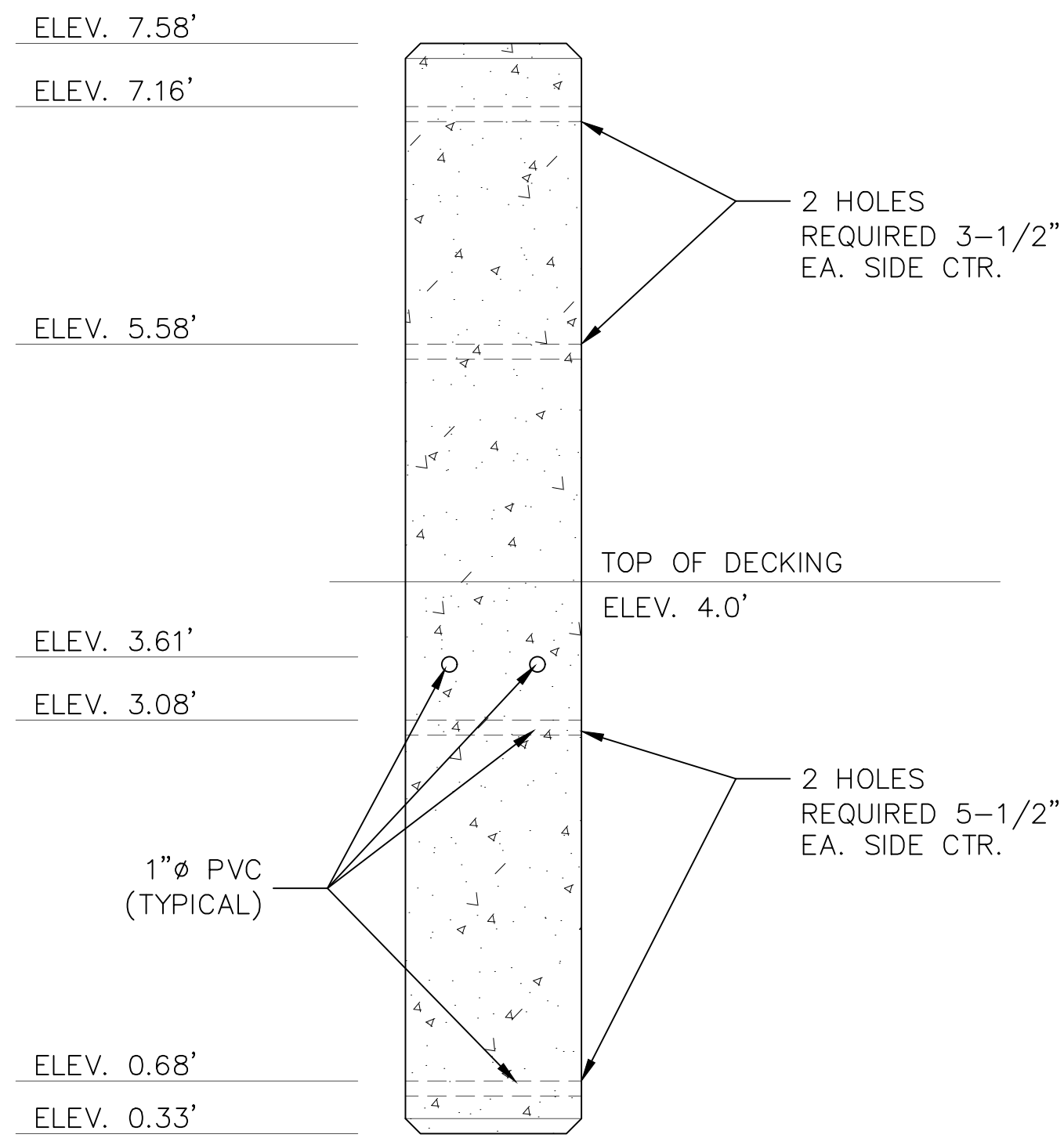
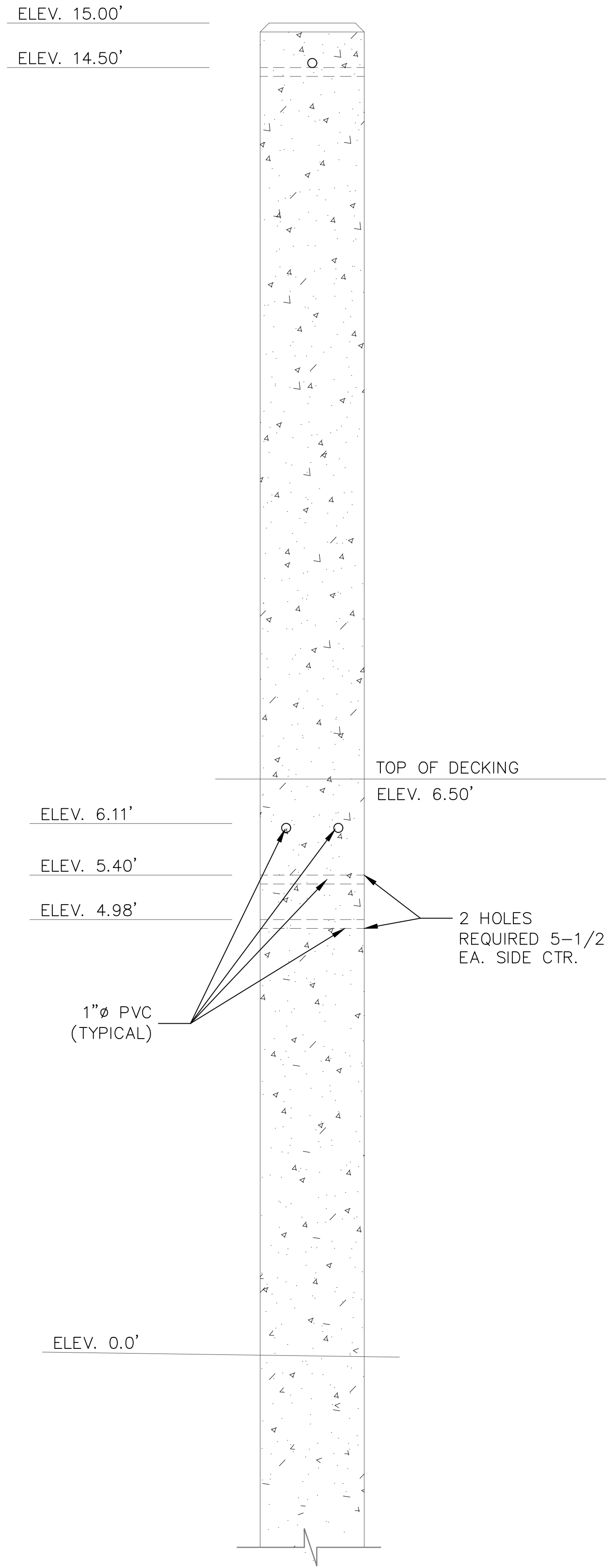
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**REPAIR TO FRED URIE PIER  
AS A RESULT OF HURRICANE ZETA**  
  
CITY OF GULFPORT



- PRE-STRESSED CONCRETE NOTES:**
1. CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 6,000 PSI AND A MINIMUM RELEASE COMPRESSIVE STRENGTH OF 4,000 PSI PRIOR TO THE TRANSFER OF PRE-STRESS. SHALL CONFORM TO THE REQUIREMENTS OF ACI 307.3R-14 GUIDE FOR DESIGN AND CONSTRUCTION MARINE STRUCTURES OF WATERFRONT AND COASTAL CONCRETE MARINE SPECIFICATIONS.
  2. PILE MANUFACTURE SHALL BE IN ACCORDANCE WITH PRECAST/PRESTRESSED CONCRETE INSTITUTE (PCI) MNL-116-21 QC MANUAL FOR STRUCTURAL PRECAST CONCRETE.
  3. PRE-STRESSING STRANDS SHALL BE 270K LOW-RELAXATION SEVEN-WIRE STEEL STRAND CONFORMING TO THE REQUIREMENTS OF ASTM A-416. SPIRAL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-82.
  4. PILING SHALL BE DESIGNED BY PILE MANUFACTURER FOR MINIMUM PRESTRESS AFTER LOSSES OF 700 PSI.
  5. STRAND ENDS SHALL BE RECESSED A MINIMUM OF 1". RECESS SHALL BE FILLED WITH AN APPROVED NON-SHRINK GROUT.
  6. FROM THE PILE TOP TO THE LOWEST SLEEVE SHALL BE GIVEN A CLASS "1" FINISH. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND WITH APPROVAL OF THE ENGINEER (OWNER OR HIS AUTHORIZED REPRESENTATIVE).
  7. PILES SHALL BE A MINIMUM OF 14-DAYS OLD PRIOR TO INSTALLATION.
  8. ALL EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER OR 1 1/2" RADIUS.
  9. SLEEVES SHALL BE ONE INCH ID SCHEDULE 40 PIPE UNLESS INDICATED OTHERWISE, SLEEVES MAY BE MOVED SLIGHTLY OFF CENTER IF THEY CONFLICT W/ REINFORCING.



**CONCRETE PILE ELEVATION - TYPE E**

SCALE: 1" = 1'-0"

**CONCRETE PILE ELEVATION - TYPE F**

SCALE: 1" = 1'-0"

**CONCRETE PILE ELEVATION - TYPE G**

SCALE: 1" = 1'-0"

**CONCRETE PILE ELEVATION - TYPE H**

SCALE: 1" = 1'-0"

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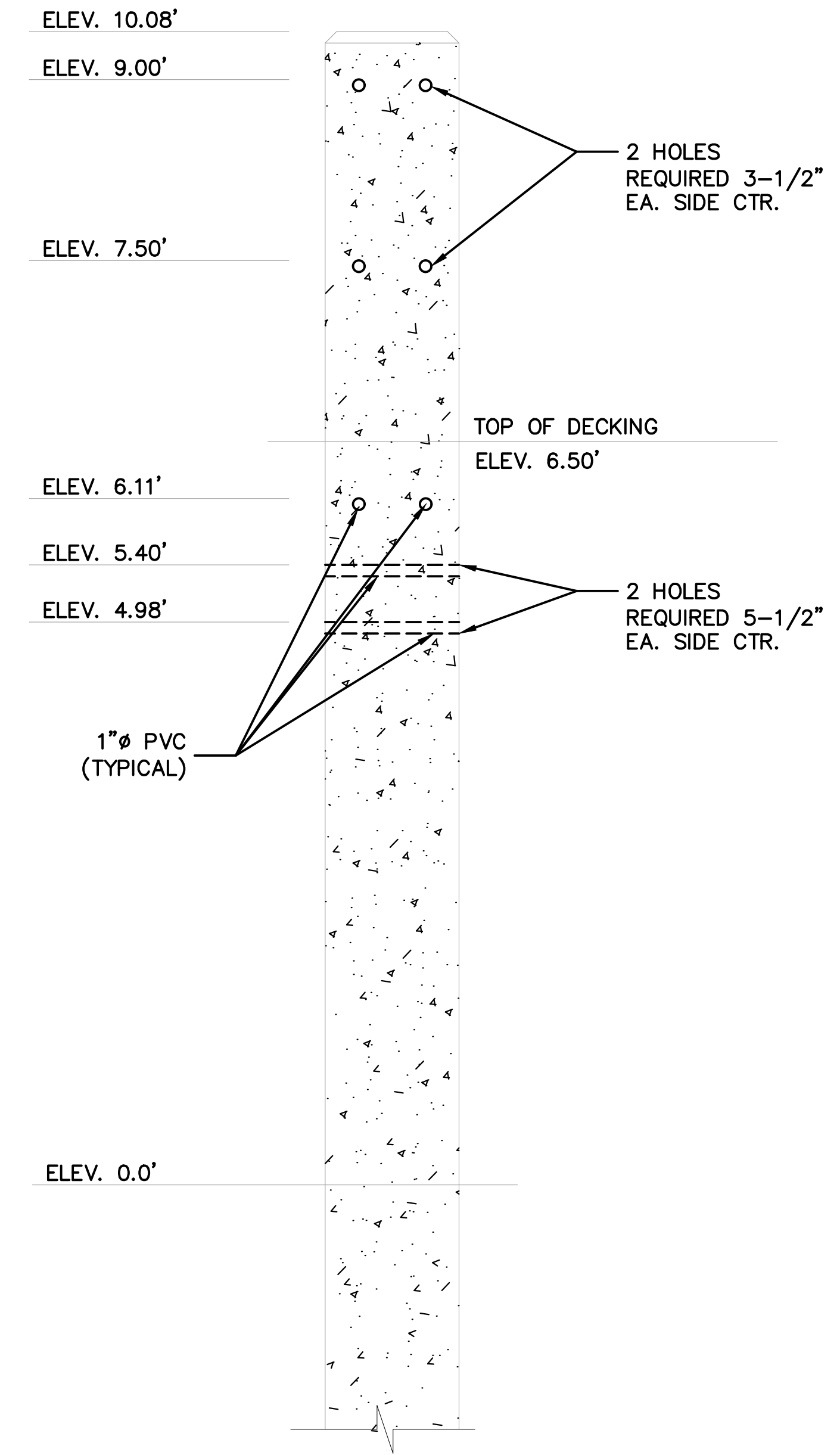
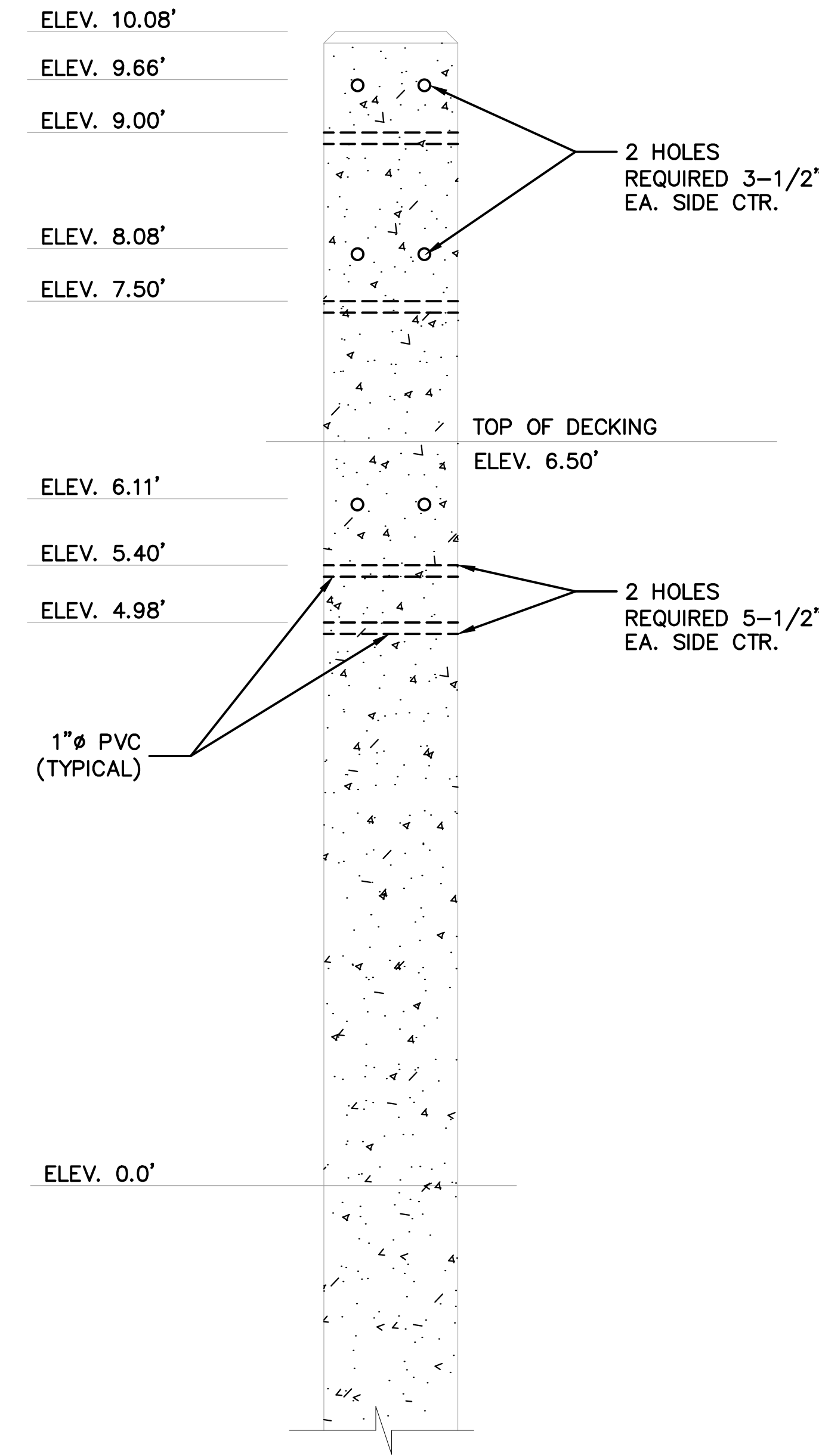
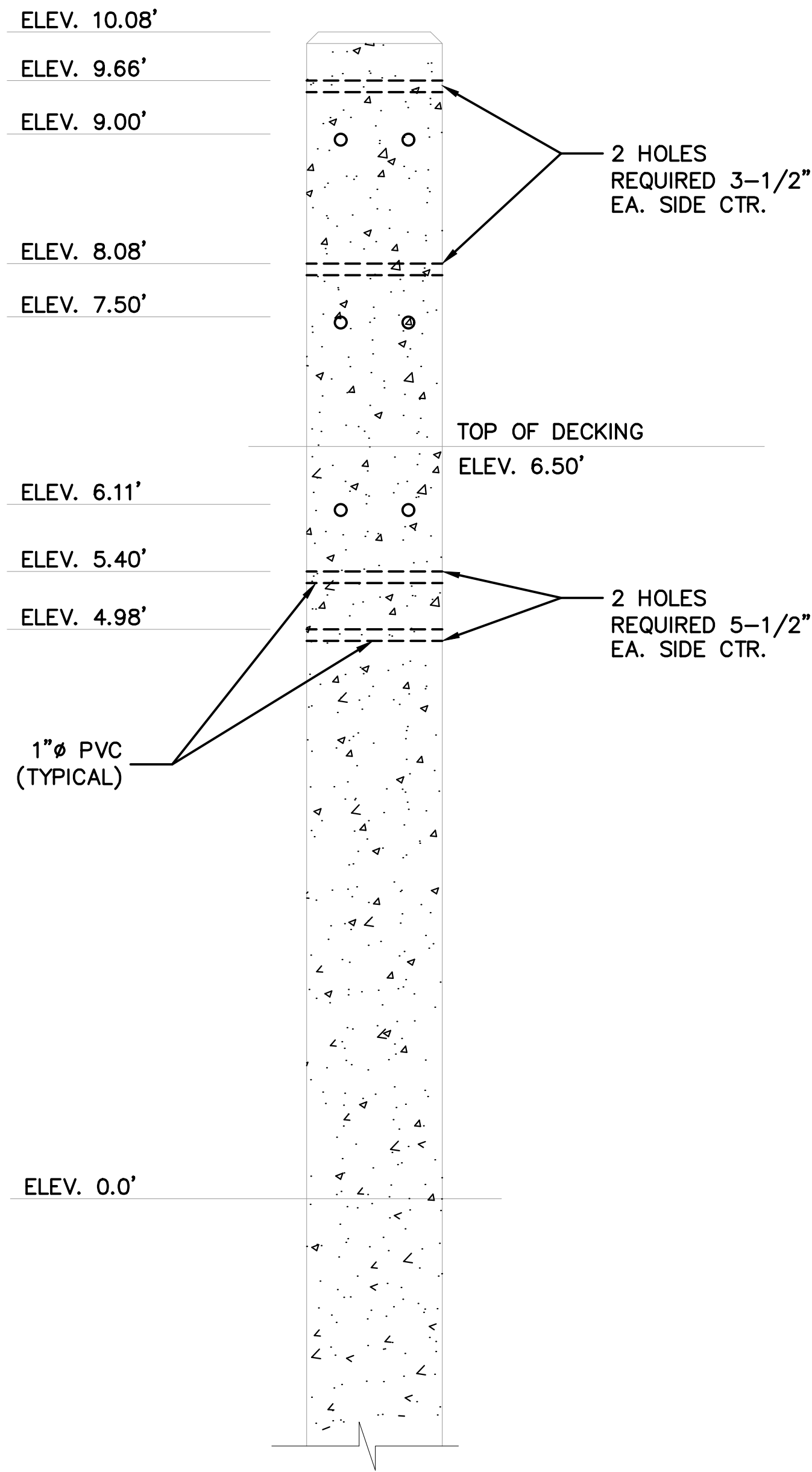
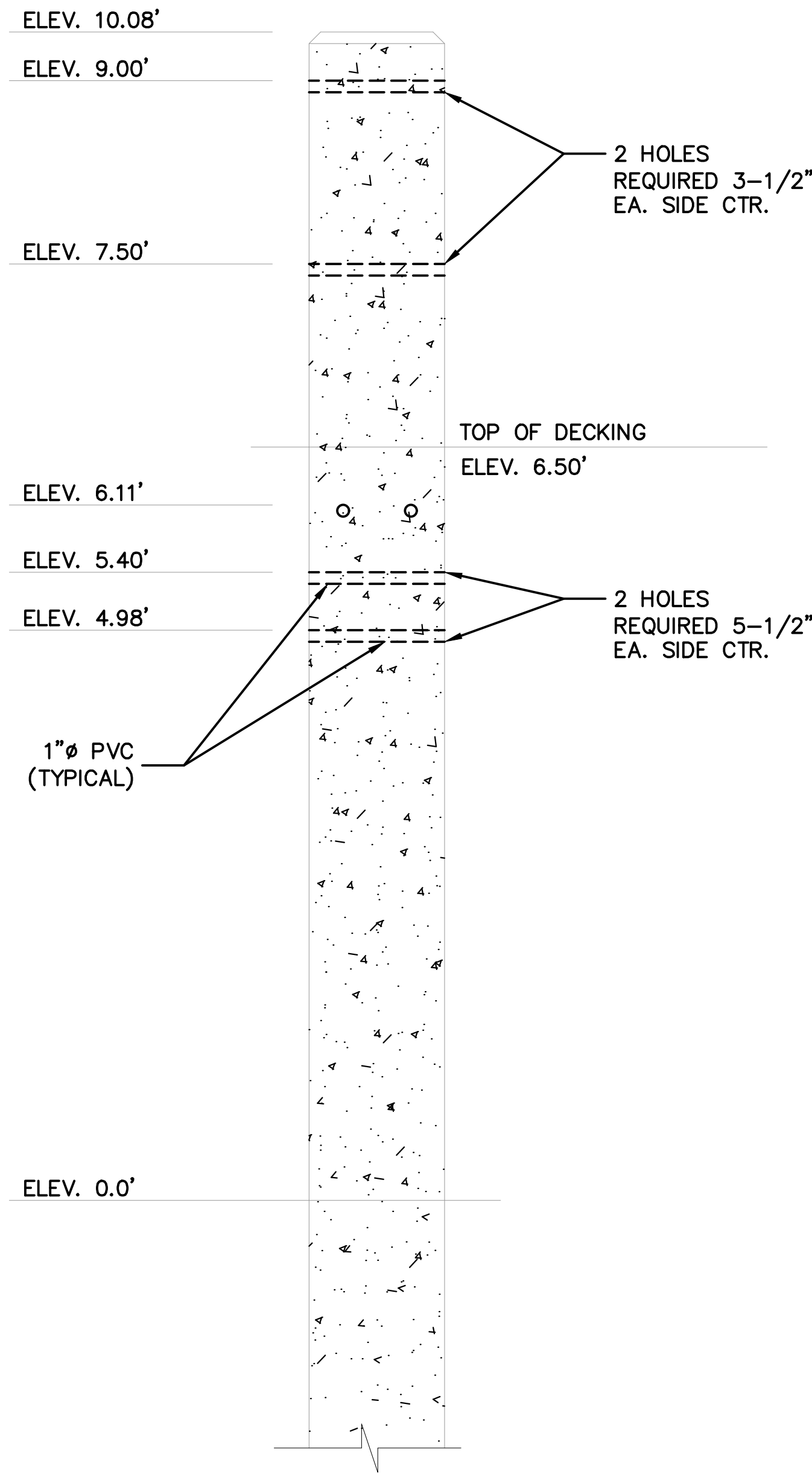
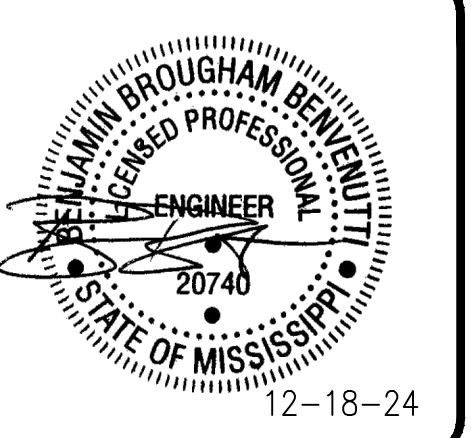
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DRAWN BY	KP	
CHECKED BY	SM	
PROJECT NO.	16405	

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**PRE-STRESSED CONCRETE NOTES:**

1. CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 6,000 PSI AND A MINIMUM RELEASE COMPRESSIVE STRENGTH OF 4,000 PSI PRIOR TO THE TRANSFER OF PRE-STRESS. SHALL CONFORM TO THE REQUIREMENTS OF ACI 308-14 GUIDE FOR DESIGN AND CONSTRUCTION MARINE STRUCTURES OF WATERFRONT AND COASTAL CONCRETE MARINE SPECIFICATIONS.
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7. PILES SHALL BE A MINIMUM OF 14-DAYS OLD PRIOR TO INSTALLATION.
8. ALL EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER OR 1 1/2" RADIUS.
9. SLEEVES SHALL BE ONE INCH ID SCHEDULE 40 PIPE UNLESS INDICATED OTHERWISE, SLEEVES MAY BE MOVED SLIGHTLY OFF CENTER IF THEY CONFLICT W/ REINFORCING.



**CONCRETE PILE ELEVATION - TYPE A1**

SCALE: 1" = 1'-0"

**CONCRETE PILE ELEVATION - TYPE B1**

SCALE: 1" = 1'-0"

**CONCRETE PILE ELEVATION - TYPE B2**

SCALE: 1" = 1'-0"

**CONCRETE PILE ELEVATION - TYPE D1**

SCALE: 1" = 1'-0"

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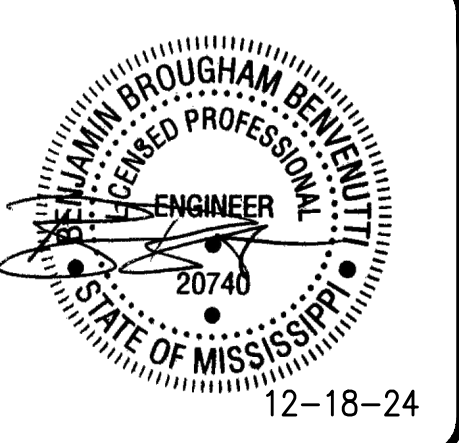
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CITY OF GULFPORT

<b>CONCRETE PILE DETAILS</b>	
DATE: 8-12-24	SHEET NUMBER
SCALE: AS NOTED	16A OF 19
DRAWN BY: KP	CHECKED BY: SM
PROJECT NO: 16405	

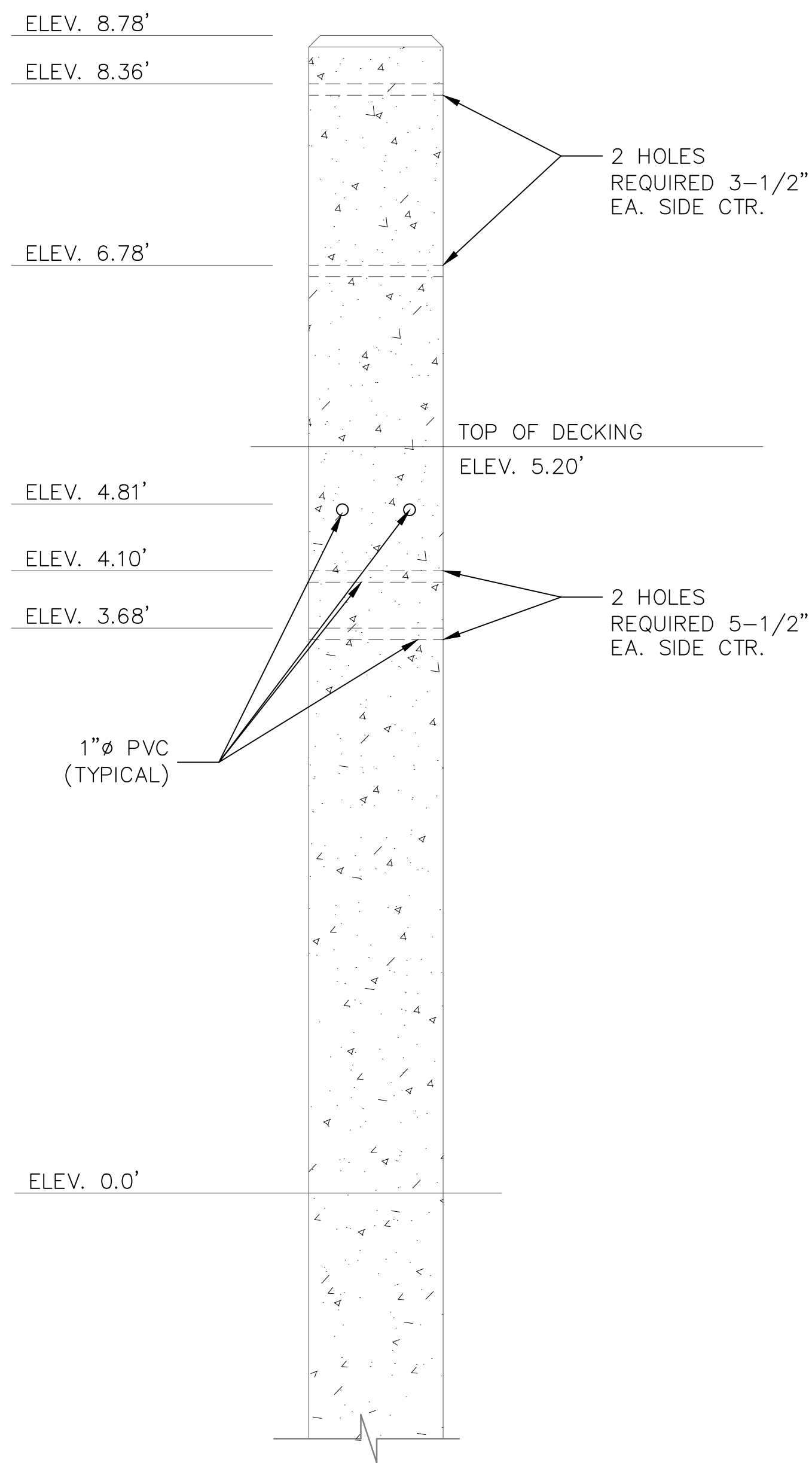
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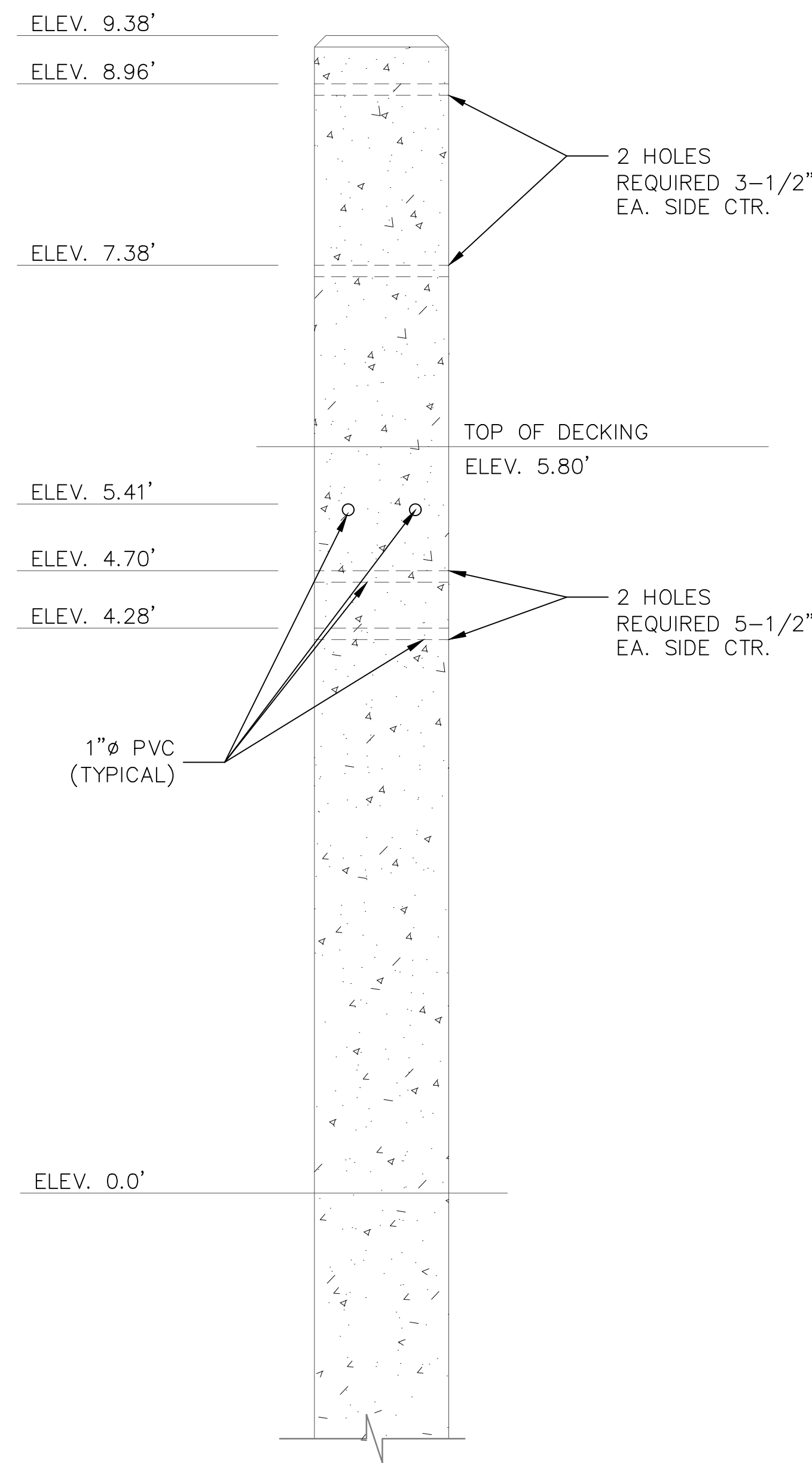
**PRE-STRESSED CONCRETE NOTES:**

1. CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 6,000 PSI AND A MINIMUM RELEASE COMPRESSIVE STRENGTH OF 4,000 PSI PRIOR TO THE TRANSFER OF PRE-STRESS. SHALL CONFORM TO THE REQUIREMENTS OF ACI 357.3R-14 GUIDE FOR DESIGN AND CONSTRUCTION MARINE STRUCTURES OF WATERFRONT AND COASTAL CONCRETE MARINE SPECIFICATIONS.
2. PILE MANUFACTURE SHALL BE IN ACCORDANCE WITH PRECAST/PRESTRESSED CONCRETE INSTITUTE (PCI) MNL-116-21 QC MANUAL FOR STRUCTURAL PRECAST CONCRETE.
3. PRE-STRESSING STRANDS SHALL BE 270K LOW-RELAXATION SEVEN-WIRE STEEL STRAND CONFORMING TO THE REQUIREMENTS OF ASTM A-416. SPIRAL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-82.
4. PILING SHALL BE DESIGNED BY PILE MANUFACTURER FOR MINIMUM PRESTRESS AFTER LOSSES OF 700 PSI.
5. STRAND ENDS SHALL BE RECESSED A MINIMUM OF 1". RECESS SHALL BE FILLED WITH AN APPROVED NON-SHRINK GROUT.
6. FROM THE PILE TOP TO THE LOWEST SLEEVE SHALL BE GIVEN A CLASS "1" FINISH. NO REPAIR OR RUBBING OF CONCRETE SURFACES SHALL BE MADE PRIOR TO INSPECTION BY AND WITH APPROVAL OF THE ENGINEER (OWNER OR HIS AUTHORIZED REPRESENTATIVE).
7. PILES SHALL BE A MINIMUM OF 14-DAYS OLD PRIOR TO INSTALLATION.
8. ALL EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER OR 1 1/2" RADIUS.
9. SLEEVES SHALL BE ONE INCH ID SCHEDULE 40 PIPE UNLESS INDICATED OTHERWISE, SLEEVES MAY BE MOVED SLIGHTLY OFF CENTER IF THEY CONFLICT W/ REINFORCING.



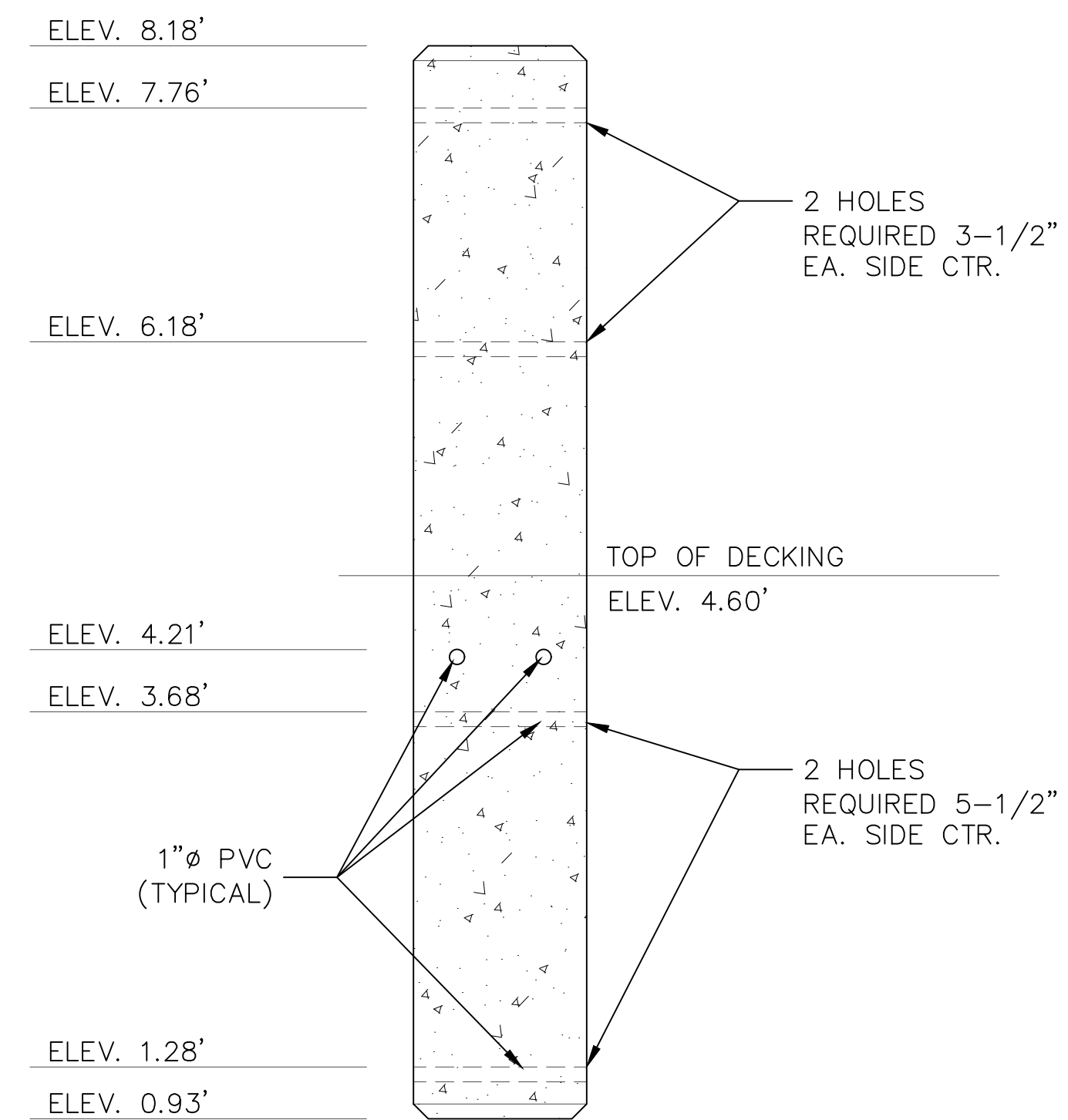
**CONCRETE PILE ELEVATION - TYPE I**

SCALE: 1" = 1'-0"



**CONCRETE PILE ELEVATION - TYPE J**

SCALE: 1" = 1'-0"



**CONCRETE PILE ELEVATION - TYPE K**

SCALE: 1" = 1'-0"

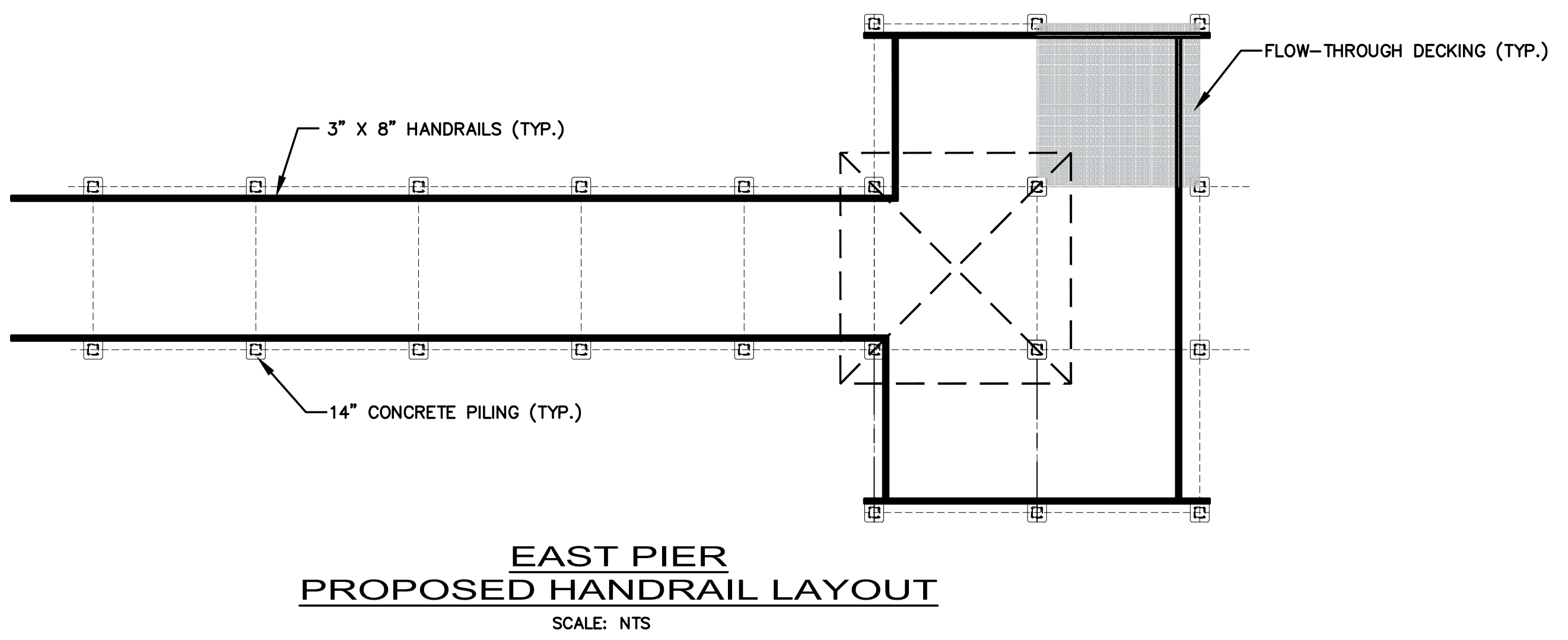
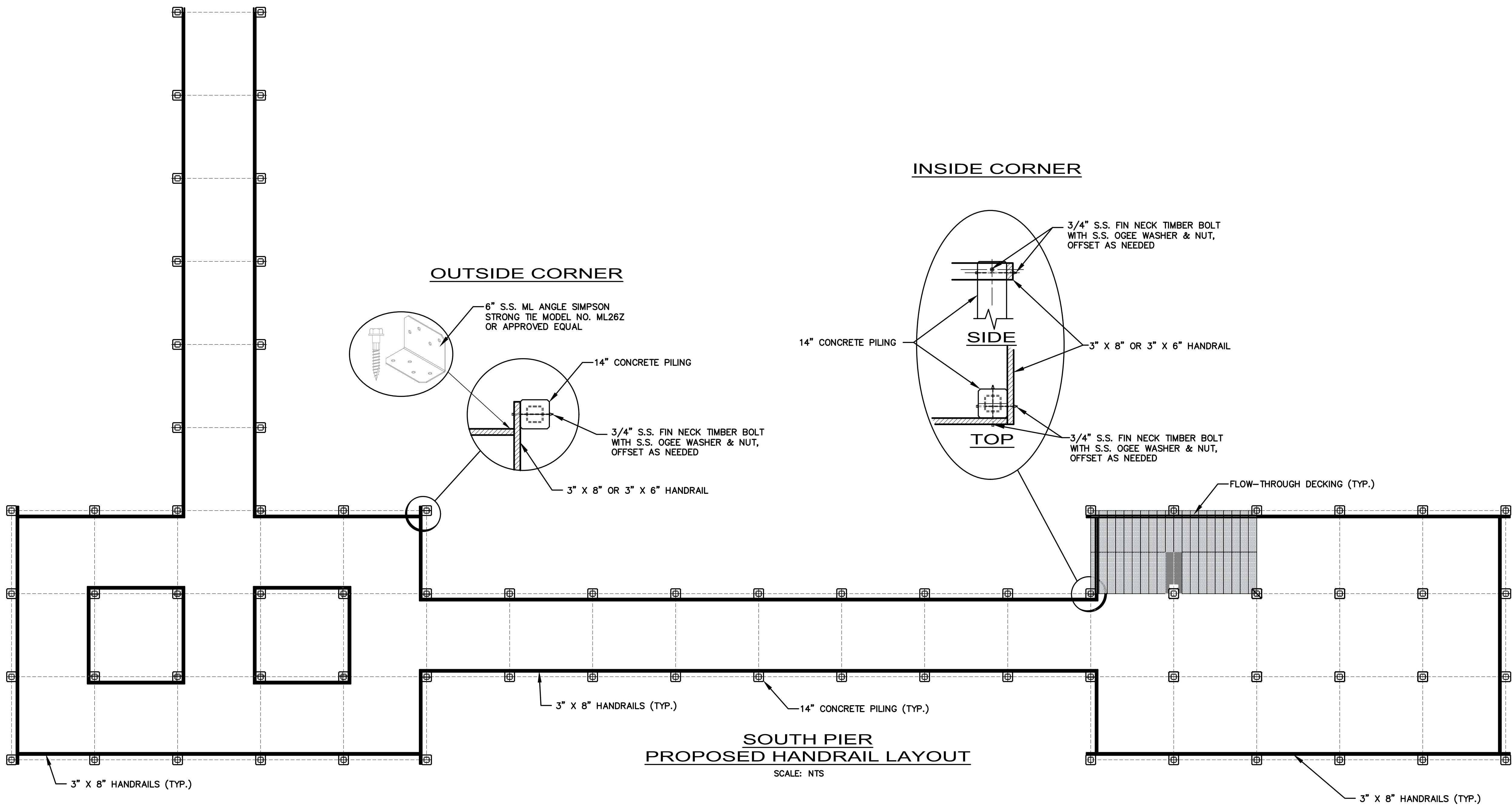
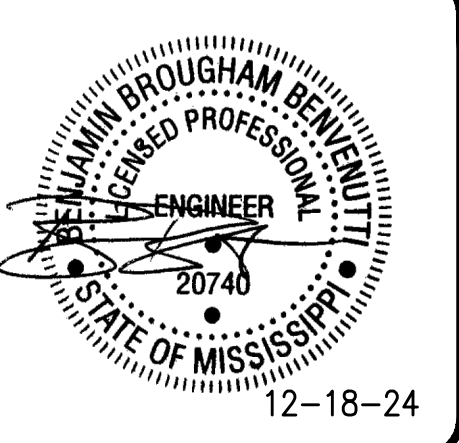
NO.	DATE	REVISION/ISSUE
1	12-18-24	ISSUED FOR CONSTRUCTION

**REPAIR TO FRED URIE PIER  
 AS A RESULT OF HURRICANE ZETA**

CITY OF GULFPORT

<b>CONCRETE PILE DETAILS</b>	
DATE: 8-12-24	SHEET NUMBER
SCALE: AS NOTED	17 OF 19
DRAWN BY: KP	CHECKED BY: SM
PROJECT NO: 16405	

ISSUED FOR CONSTRUCTION



NO.	DATE	REVISION/ISSUE
1	12-18-24	ISSUED FOR CONSTRUCTION

**REPAIR TO FRED URIE PIER  
 AS A RESULT OF HURRICANE ZETA**

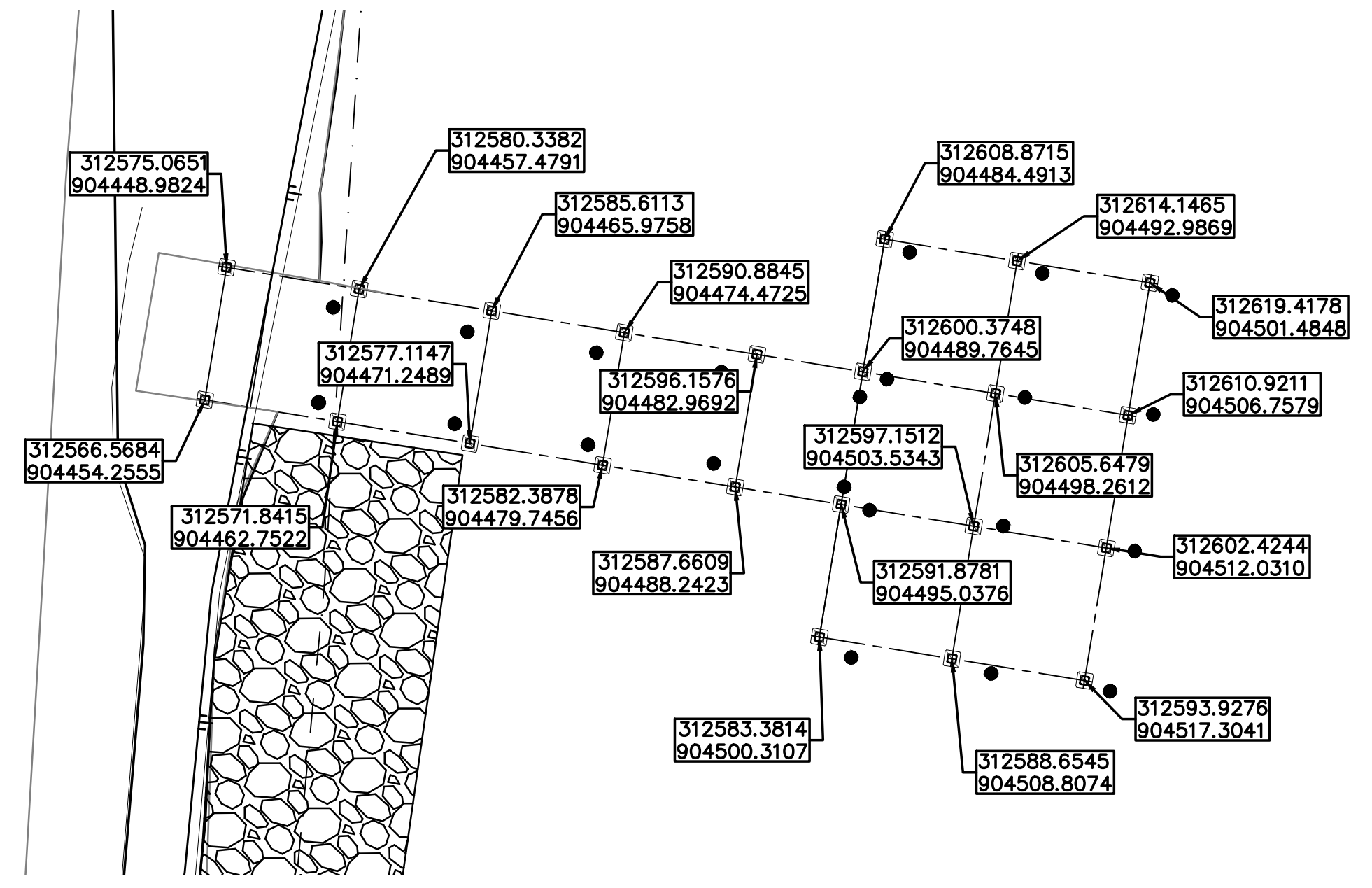
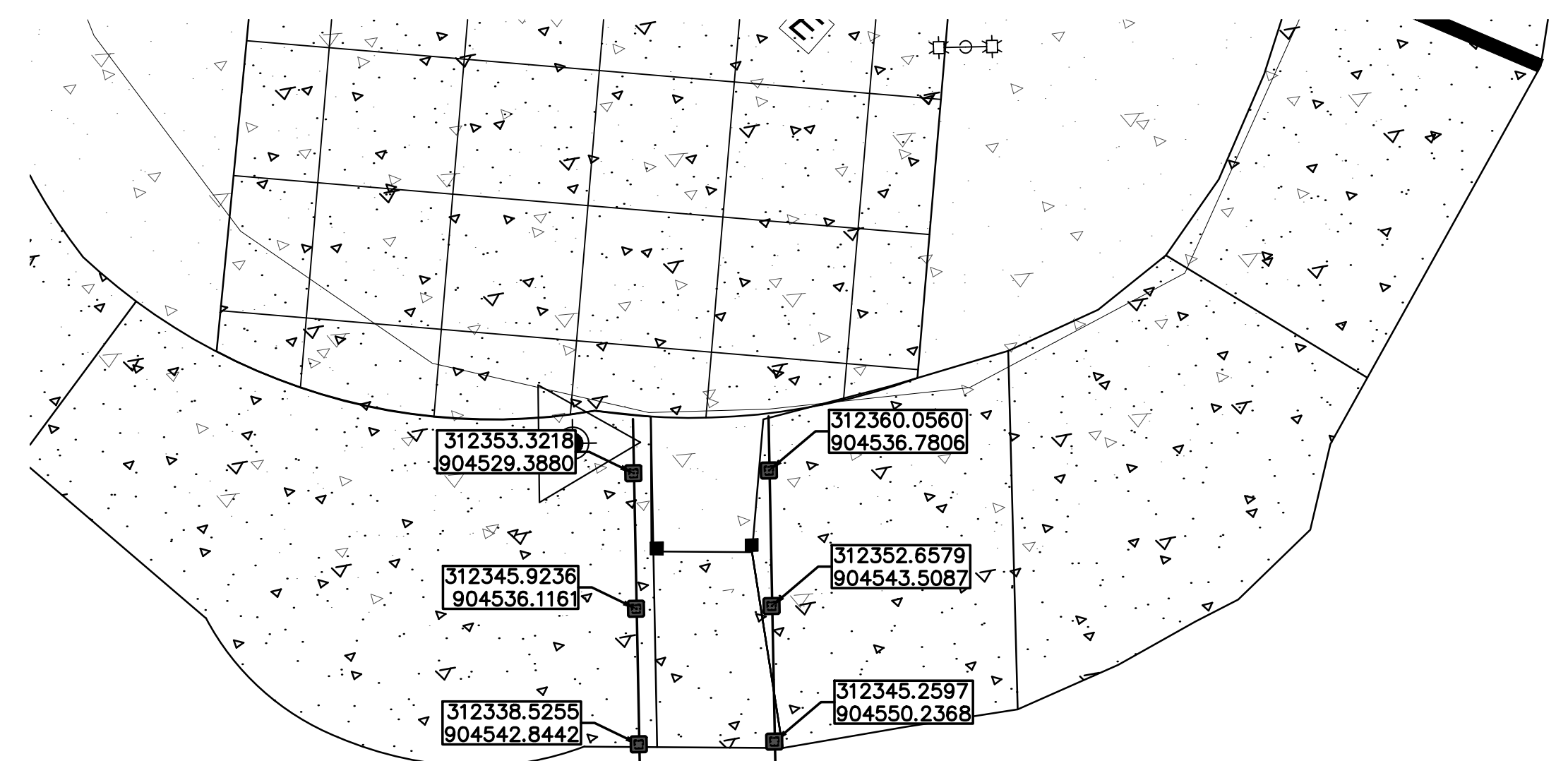
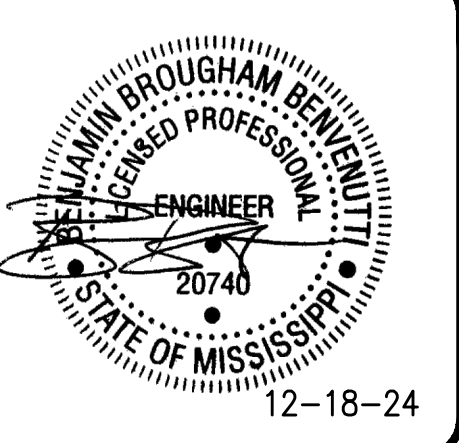
CITY OF GULFPORT

HANDRAIL LAYOUT AND DETAIL	
DATE	8-12-24
SCALE	AS NOTED
DRAWN BY	KP
CHECKED BY	SM
PROJECT NO.	16405

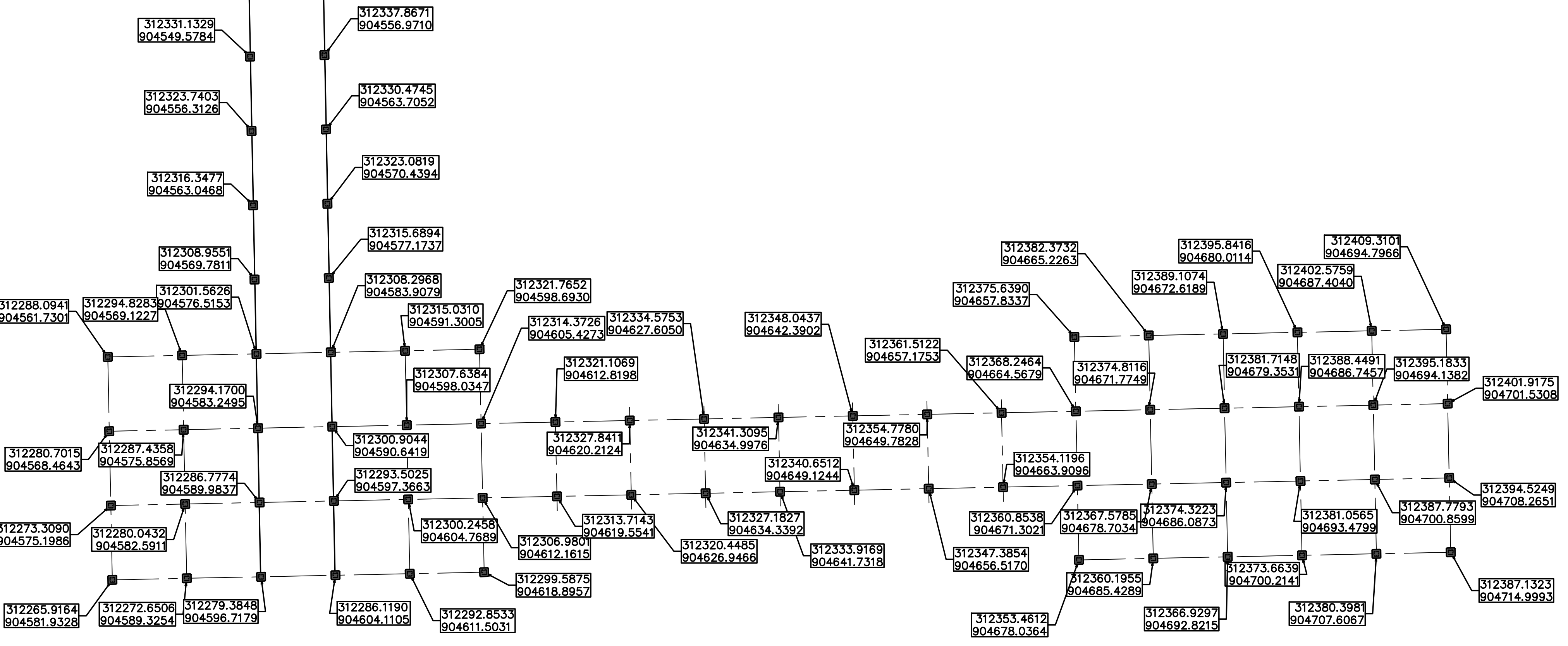
18 OF 19

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**EAST PIER  
 PROPOSED PILING LAYOUT**  
 SCALE: 1" = 10'  
 0 10 20 Feet



**SOUTH PIER  
 PROPOSED PILING LAYOUT**  
 SCALE: 1" = 10'  
 0 10 20 Feet

NO.	DATE	REVISION/ISSUE
1	12-18-24	ISSUED FOR CONSTRUCTION

**REPAIR TO FRED URIE PIER  
 AS A RESULT OF HURRICANE ZETA**  
 CITY OF GULFPORT

DATE	8-12-24	SHEET NUMBER
SCALE	AS NOTED	19 OF 19
DRAWN BY	KP	CHECKED BY
PROJECT	NO. 16405	

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