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# STATE OF RHODE ISLAND

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## DEPARTMENT OF ENVIRONMENTAL MANAGEMENT DIVISION OF PLANNING AND DEVELOPMENT

# ROGER WHEELER STATE BEACH BOARDWALK

NARRAGANSETT, RHODE ISLAND

Pare Project No. 19131.00



**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS

8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100  
10 LINCOLN ROAD, SUITE 210 FOXBORO, MA 02035 508-543-1755  
14 BOBALA ROAD, SUITE 2B HOLYOKE, MA 01040 413.507.3448

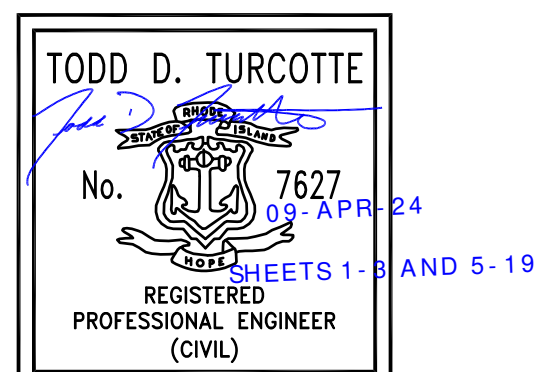
APRIL 2024



**Locus Map**

Scale: 1"=1000'

REVISIONS		
NO.	DESCRIPTION	DATE
0	ISSUED FOR BID	4/2/2024

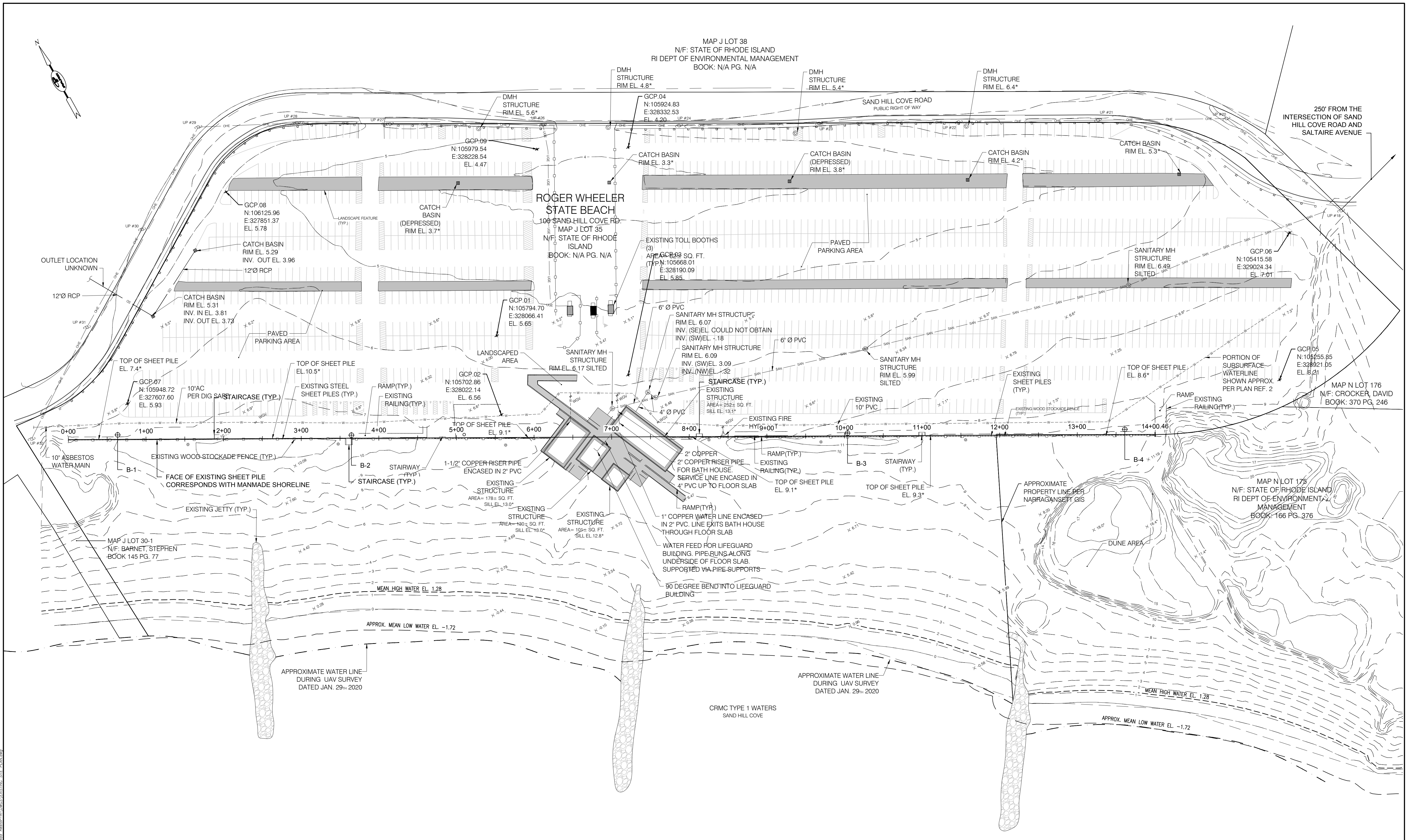






SCALE ADJUSTMENT GUIDE  
0' 1'  
BAR IS ONE INCH ON ORIGINAL DRAWING

**ROGER WHEELER STATE BEACH BOARDWALK**  
NARRAGANSETT, RHODE ISLAND  
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



**EXISTING SITE PLAN**  
SCALE: 1"=60'

**NOTES:**

1. EXISTING CONDITIONS BASED UPON PLAN ENTITLED "EXISTING CONDITIONS AND TOPOGRAPHY PLAN ROGER WHEELER STATE BEACH" PREPARED BY NARRAGANSETT ENGINEERING INC. OF PORTSMOUTH, RI DATED MAY 2020, LATEST REVISION 03/23/21.
2. BENCHMARKS AND CONTROL POINTS SHALL BE VERIFIED BY CONTRACTOR BEFORE COMMENCING WITH LAYOUT.

Scale: 1"=60'  
0 30' 60' 120'

**REVISIONS:**

0	IFB	04/09/2024
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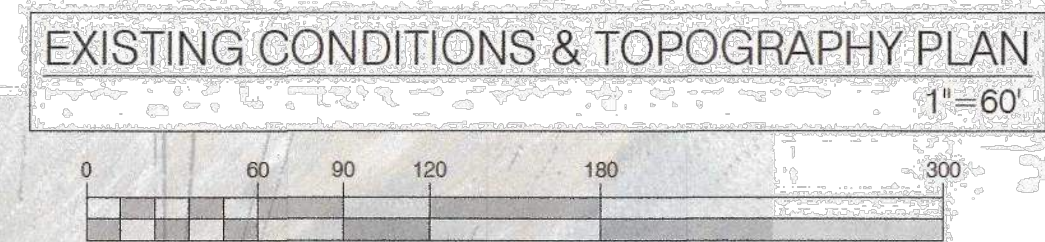
PROJECT NO.: 19131.00  
DATE: APRIL 2024  
SCALE: AS NOTED  
DESIGNED BY: KAD  
CHECKED BY: BMD  
DRAWN BY: LMC  
APPROVED BY: JMB

EXISTING SITE PLAN

SHEET NO.: 2.0

BID DOCUMENTS  
NOT FOR CONSTRUCTION

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**FOR INFORMATIONAL PURPOSES ONLY  
NOT TO SCALE**

**V DATUM CHART - ROGER WHEELER**

DATUM	ELEVATION
NAVD88	0.000
MLW	-1.843
MLW	-1.721
(LOCAL MSL)	-0.312
MHW	1.277
MHHW	1.523

ALL CONVERSIONS PER NOAA V-DATUM

- SURVEY NOTES:**
- ZONING INFORMATION SHOWN FROM RECORD INFORMATION. MAPS AND/OR GIS. ZONING DATA MAY VARY BASED ON USE, LOT SIZE, ORIENTATION AND OTHER FACTORS AND IS SHOWN FOR REFERENCE INFORMATION ONLY.
  - ZONING DATA MUST BE CONFIRMED WITH ZONING OFFICIAL AND/OR LEGAL COUNSEL FOR USE IN DESIGN OR PERMITTING.
  - COORDINATE SYSTEM IS NAD83 / MLW.
  - SEE V-DATUM REF. SHEET SV-101
  - TOPOGRAPHY IS MIX OF ON GROUND SHOTS, RECORD DATA AND RI SPRING 2011 UAS.
  - ALL PROPOSED ITEMS MUST BE LAID OUT BY REGISTERED SURVEYOR AS NOTED.
  - PLAN IS NOT AS-BUILT UTILITY PLAN. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT OF PROBATE SEARCH, AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
  - LOCATION OF SUBSURFACE MAINS, SURFACE FEATURES, AND LATERALS ARE OMITTED. CONTRACTOR TO CALL DIG SAFE AND/OR APPLICABLE UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. DIG SAFE TEL: #1-800-344-7233 (1-800-DIG-SAFE).
  - WATER - SURFACE FEATURES SHOWN. SUBSURFACE SHOWN PER DIG SAFE AND PLAN REFS 1 & 2.
  - SEWER - SURFACE FEATURES SHOWN. SUBSURFACE PER FIELD INVESTIGATION AND DIG SAFE.
  - GAS - NOT IN AREA OF CONCERN.
  - ELECTRIC - SURFACE AND OVER HEAD FEATURES SHOWN PER SURVEY. UNDERGROUND PER TOWN OF NARRAGANSETT GIS.
  - STORM DRAIN - SURFACE AND SUBSURFACE SHOWN PER SURVEY.
  - ALL UTILITIES MEET QUALITY LEVEL C AS PRESCRIBED BY ASCE 38-02.
  - NOTE: SUBSURFACE INFORMATION SHOWN IN AREA OF CONCERN ONLY.
  - ELEVATIONS SHOWN WITH \* PER UAV DATA.
  - PROPERTY LINE AND ABUTTING PROPERTY LINE INFORMATION SHOWN APPROXIMATELY PER TOWN OF NARRAGANSETT GIS.
  - NO BIOLOGIST INCLUDED AS PART OF SURVEY SCOPE.

**NEI**  
Narragansett  
Engineering Inc.

Civil Survey Structural Environmental Design  
102 East Main Road, Portsmouth RI 02871  
Tel: 401-693-6630 www.nei-eds.com

**SHEET TITLE**  
EXISTING CONDITIONS AND TOPOGRAPHY PLAN  
ROGER WHEELER STATE BEACH  
MEAN LOW WATER DATUM  
1.5 Data Accumulation Survey  
(Topography T-2 + Class 3)  
1.5D UAV Survey (for site and topography)

Ryan McCoy  
Pare Corporation  
10 Lincoln Rd.  
Foxboro, MA 02035  
T: 508-543-1755  
E: rmcocoy@parecorp.com

Property Record  
100 Sand Hill Cove Rd. Narragansett, RI 02891  
Map: J. Lot: 35  
Zone: R-20. Area: 16.05 Acres  
N/F: State of Rhode Island & RI Department of Environmental Management (per assessor)

CERTIFICATION THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON MARCH 30, 2020, AS FOLLOWS:

DATA ACCUMULATION SURVEY - CLASS III  
TOPOGRAPHIC SURVEY - T-2 ACCURACY (\$1.9/D)

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: TO DISPLAY EXISTING CONDITIONS, UTILITY FEATURES & TOPOGRAPHY IN THE AREA OF CONCERN.

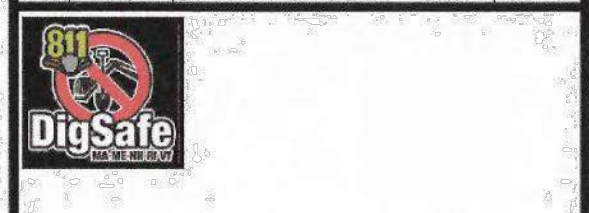
NEAL K. HINGORANY  
No. 2515  
PROFESSIONAL  
LAND SURVEYOR

05.18.20

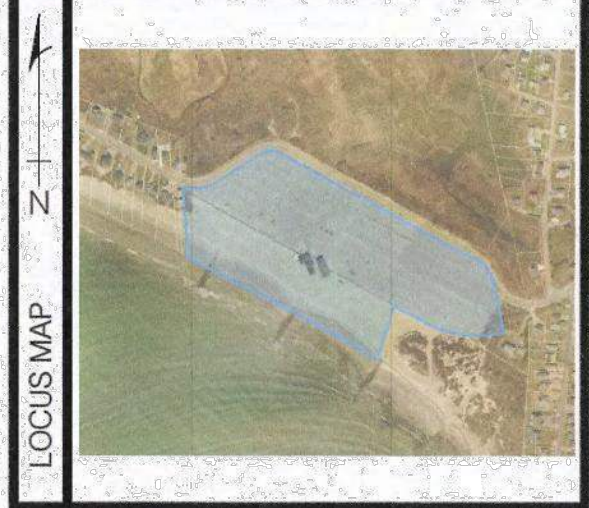
NEAL HINGORANY REG. 2515  
COA: A38  
nei-eds.com

PROJECT #	DATE	DRAWN	CHECK
20.0101	02/09/20	LD	NKH

No	DATE	REVISIONS/DESCRIPTION	BY
1	04-14-20	DATUM CONVERTED TO MLW ADDITIONAL SPOT GRADES ADDED	LD



DRAWINGS MUST BE PRINTED IN COLOR TO BE VALID. THIS NOTE SHOULD BE BLUE. IF THIS NOTE IS NOT BLUE, PLEASE REPRINT IN COLOR OR CONTACT NEI

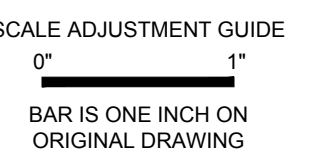


SV-100 SCALE 1"=60'

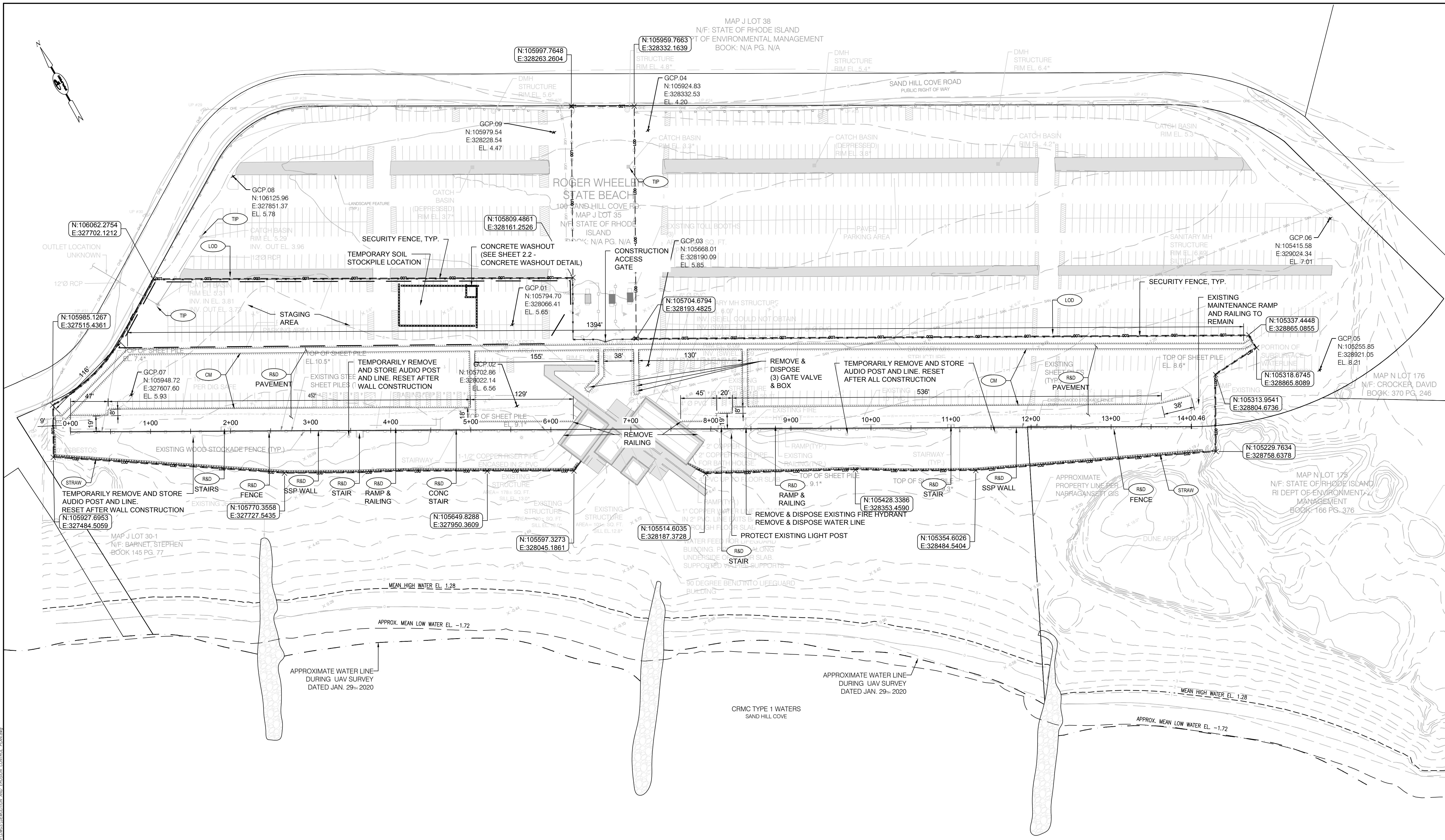
**LEGEND**

	BRUSH LINE (APPROXIMATE)
	DIMENSION - EXISTING
	DIMENSION - PLAN / DEED
	DIMENSION - PROPOSED
	DIMENSION - SURVEY
	EDGE OF PAVEMENT - EXISTING
	EDGE OF PAVEMENT - PROPOSED
	ELECTRIC - OVERHEAD (OHE)
	ELECTRIC - TELEPHONE CABLE (ETC)
	ELECTRIC - UNDERGROUND (UGE)
	FENCE - METAL
	FENCE - WOOD
	FLOW ARROWS
	GAS (G)
	GRADE CONTOUR - EXISTING
	GRADE CONTOUR - PROPOSED
	HIGH VISIBILITY FENCE (HVF)
	LIMIT OF DISTURBANCE
	LOD / SED
	PROPERTY LINE - ABUTTING
	PROPERTY LINE - EXISTING
	LEASED LINE - EXISTING
	PROPERTY LINE - PROPOSED
	SANITARY SEWER (S)
	SEDIMENT CONTROL
	SETBACKS
	STONE WALL
	STORM DRAIN (SD)
	SUBDIVISION LINE - EXISTING
	WATER
	WETLAND LIMIT
	WETLAND BUFFER
	RIVER BANK WETLAND BUFFER
	GROUND CONTROL POINT (GCP)
	CATCH BASIN
	DRILL HOLE
	ELECTRIC BOX (ETC)
	FIRE HYDRANT
	GATE VALVE
	GRANITE BOUND - EXISTING
	LOW WATER LINE
	LIMIT OF DISTURBANCE MARKER
	MANHOLE (MH-TYPE)
	REBAR / STEEL PIPE FOUND
	SPIKE
	SPOT GRADE - EXISTING
	SPOT GRADE - PROPOSED
	STRUCTURE - EXISTING
	STRUCTURE - PROPOSED
	SURVEY MONUMENT TO BE SET
	SURVEY MARKER TO BE SET
	TREE
	UTILITY POLE
	LIGHT POLE
	WATER SHUT OFF
	WETLAND FLAG LOCATION

C:\USERS\NEI\DESKTOP\ROGER WHEELER\2021\01\_SURVEY WORKING\_L.D\_MLV DWG SV-100 NEI Structural.dwg 01/18/2020 NEI



**ROGER WHEELER STATE BEACH BOARDWALK**  
 NARRAGANSETT, RHODE ISLAND  
 RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

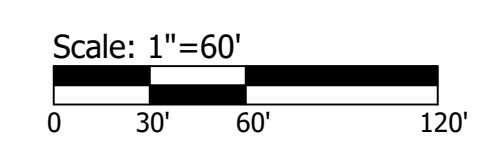


**DEMOLITION AND EROSION CONTROL PLAN**

SCALE: 1"=60'

**NOTES:**

- EXISTING CONDITIONS BASED UPON PLAN ENTITLED "EXISTING CONDITIONS AND TOPOGRAPHY PLAN ROGER WHEELER STATE BEACH" PREPARED BY NARRAGANSETT ENGINEERING INC. OF PORTSMOUTH, RI DATED MAY 2020, LATEST REVISION 03/23/21.
- STAIRS AND RAMPS ARE TIMBER UNLESS NOTED OTHERWISE.



REVISIONS:		
0	IFB	04/09/2024

PROJECT NO.:	19131.00
DATE:	APRIL 2024
SCALE:	AS NOTED
DESIGNED BY:	KAD
CHECKED BY:	BMD
DRAWN BY:	LMC
APPROVED BY:	JMB

**DEMOLITION AND EROSION CONTROL PLAN**

SHEET NO.: **3.0**

BID DOCUMENTS  
NOT FOR CONSTRUCTION

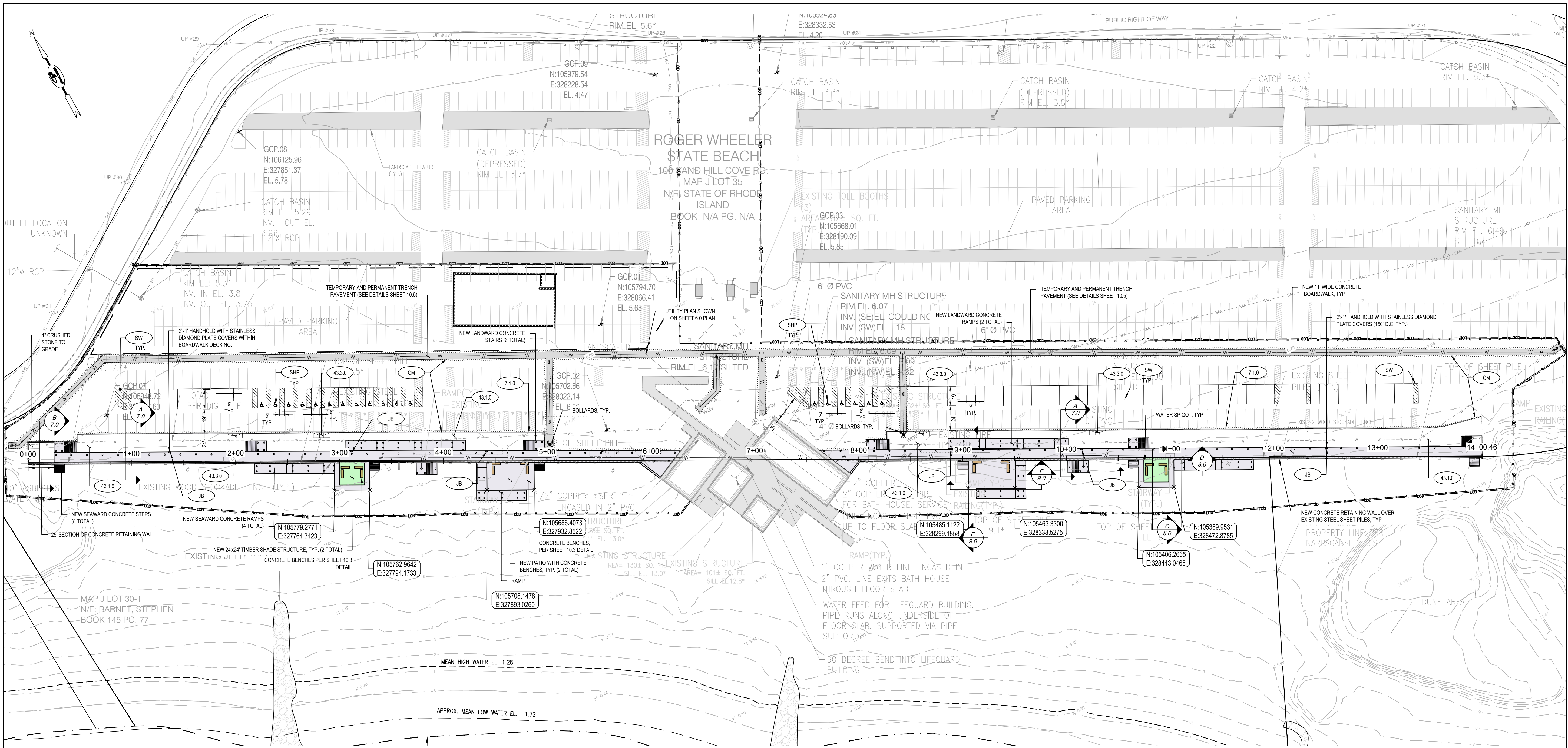


SCALE ADJUSTMENT GUIDE  
 0 1'  
 BAR IS ONE INCH ON ORIGINAL DRAWING

**ROGER WHEELER STATE BEACH BOARDWALK**

NARRAGANSETT, RHODE ISLAND

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



**PROPOSED SITE PLAN**

SCALE: 1"=50'

Scale: 1"=50'  
 0 25 50 100'

BID DOCUMENTS  
 NOT FOR CONSTRUCTION

REVISIONS:		
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DESIGNED BY:	KAD
CHECKED BY:	BMD
DRAWN BY:	LMC
APPROVED BY:	JMB

PROPOSED  
 SITE PLAN

SHEET NO.:  
**4.0**

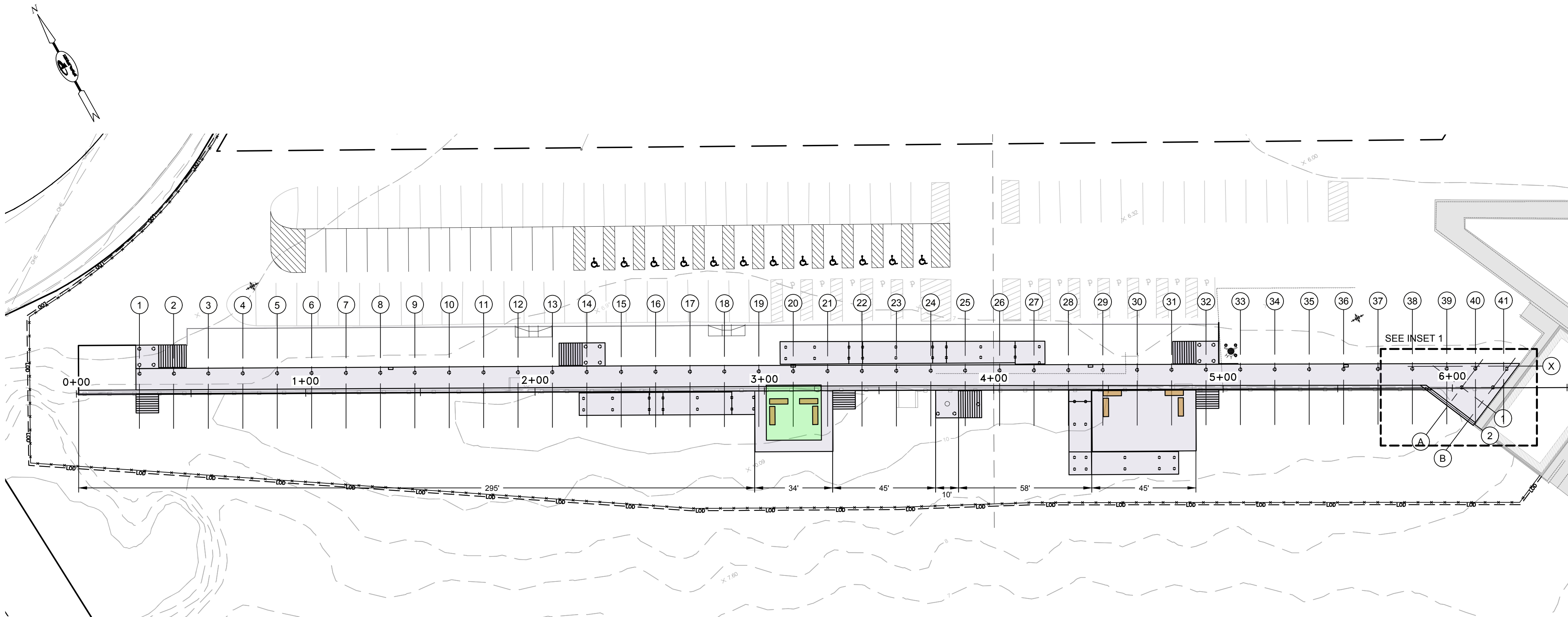
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REVISIONS:		
0	IFB	04/09/2024

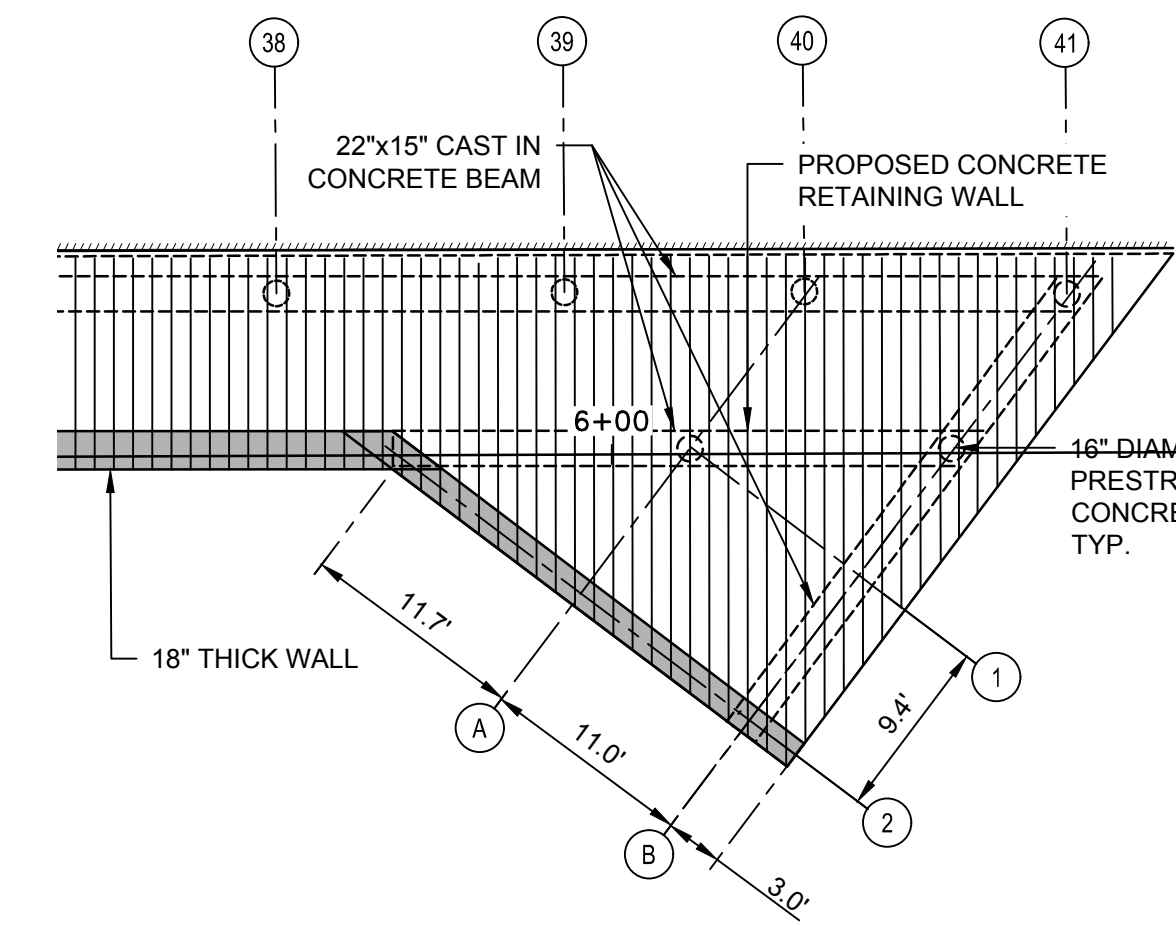
PROJECT NO.: 19131.00  
 DATE: APRIL 2024  
 SCALE: AS NOTED  
 DESIGNED BY: KAD  
 CHECKED BY: BMD  
 DRAWN BY: LMC  
 APPROVED BY: JMB

PROPOSED BOARDWALK PLAN

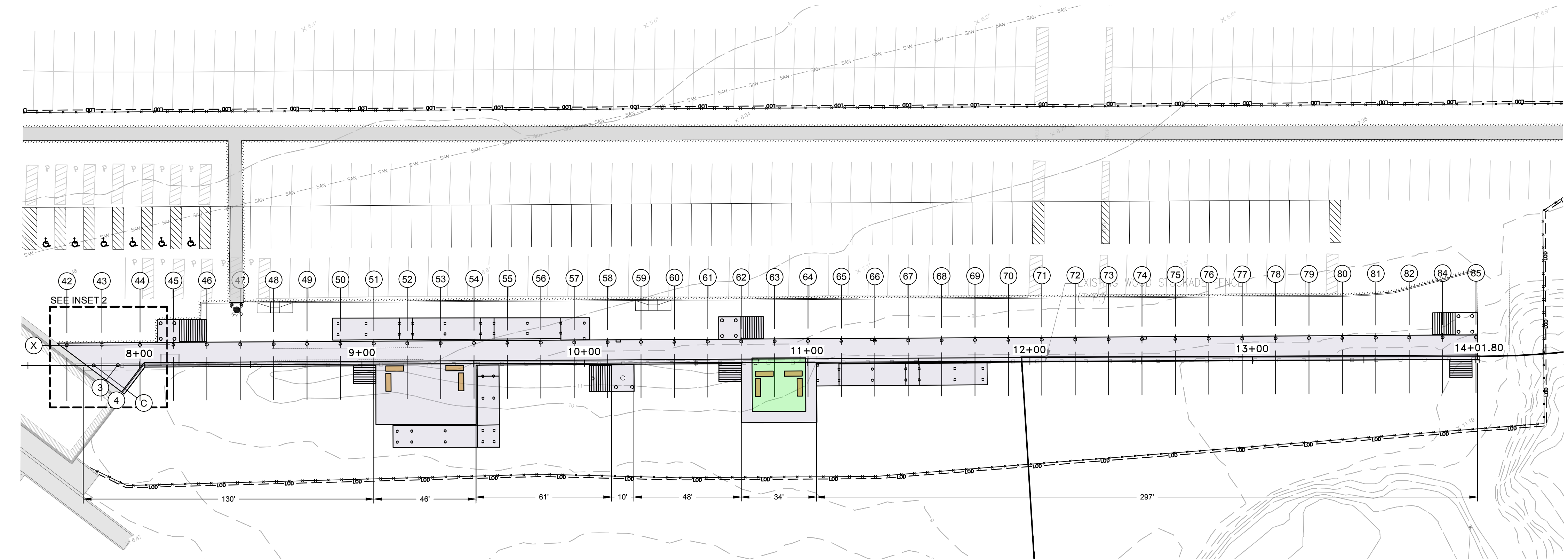
SHEET NO.: 5.0



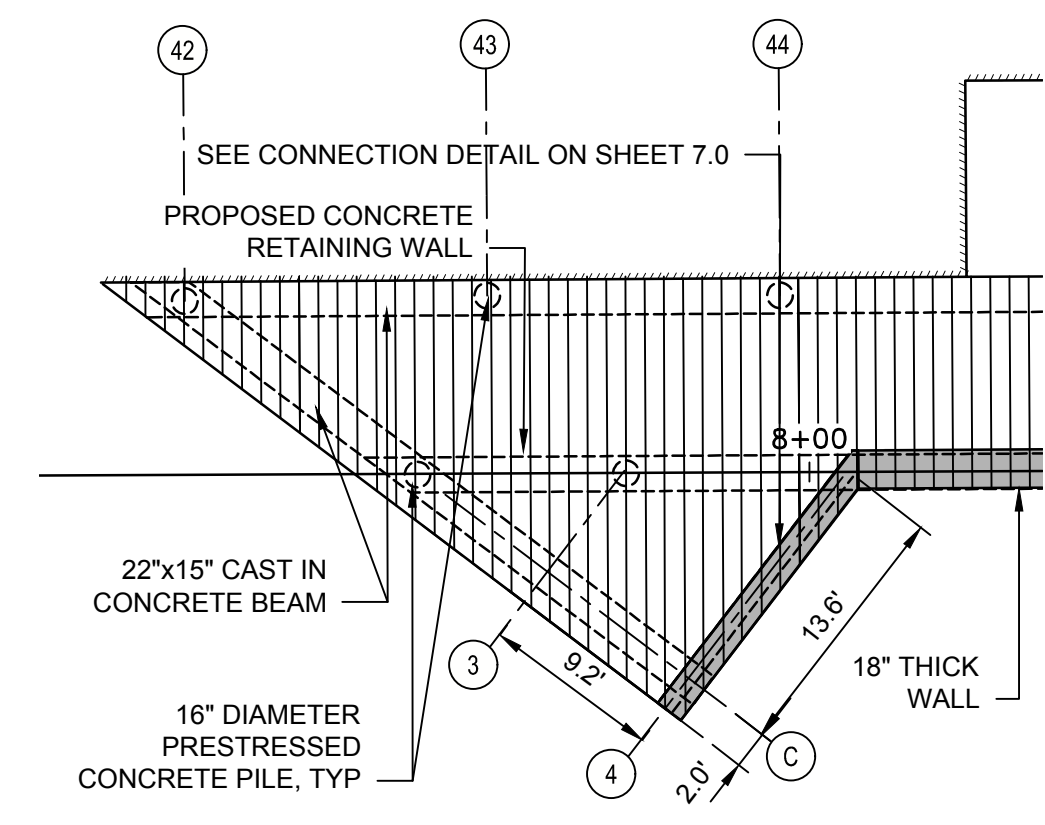
PROPOSED SITE PLAN  
 SCALE: 1"=30'±



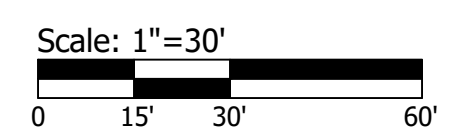
INSET 1 - EXISTING STRUCTURE TIE-IN: WEST  
 SCALE: 1"=10'±



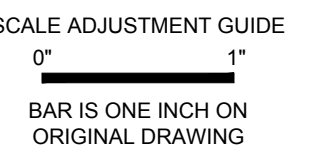
PROPOSED SITE PLAN  
 SCALE: 1"=30'±



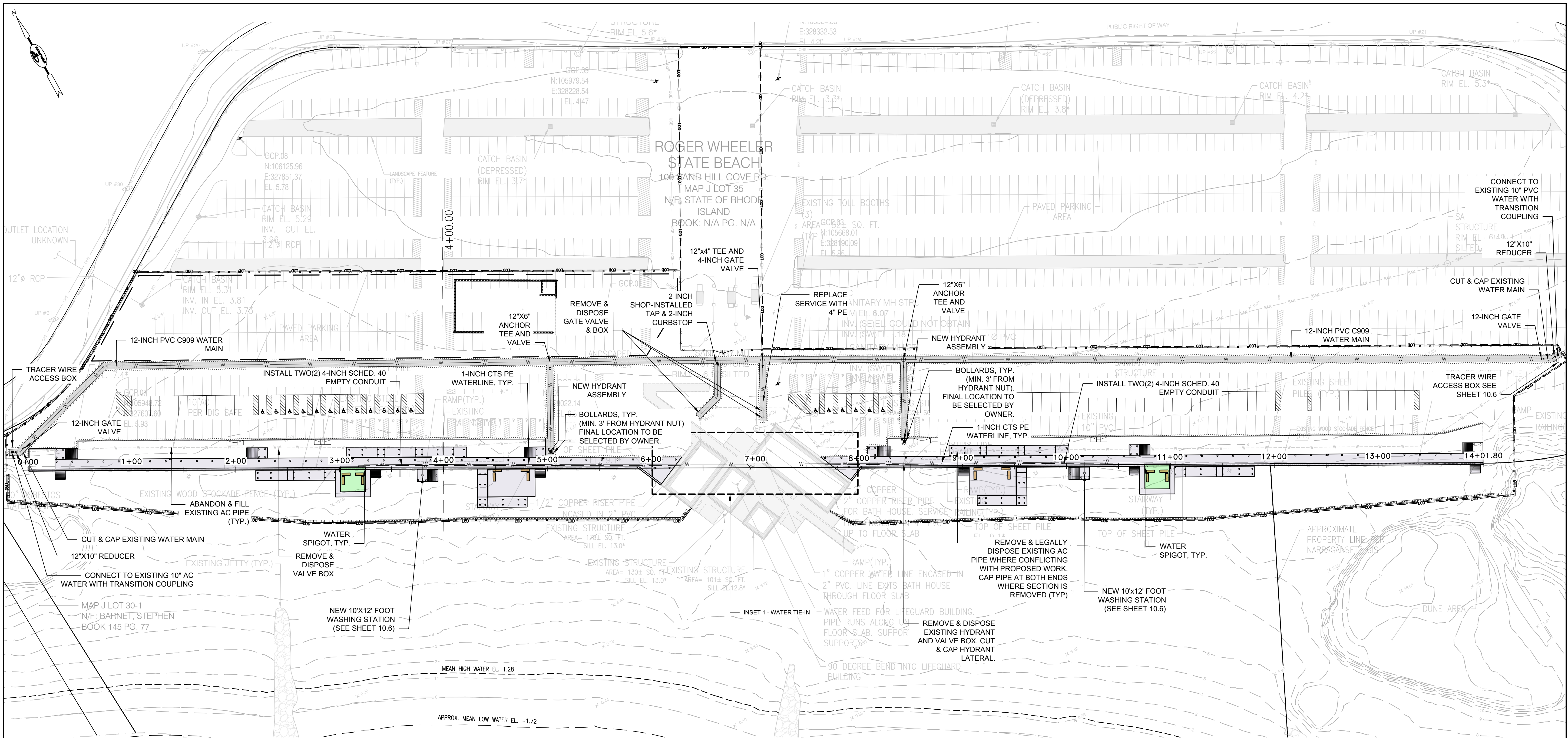
INSET 2 - EXISTING STRUCTURE TIE-IN: EAST  
 SCALE: 1"=10'±



P:\V\2024\19\_19131\_00\_BOARDWALK\_PLAN\DWG\BOARDWALK\_P\_01.dwg  
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 Author: BMD  
 Plot Date: 04/09/24 11:11:20 AM  
 Plot Scale: 1"=30'±

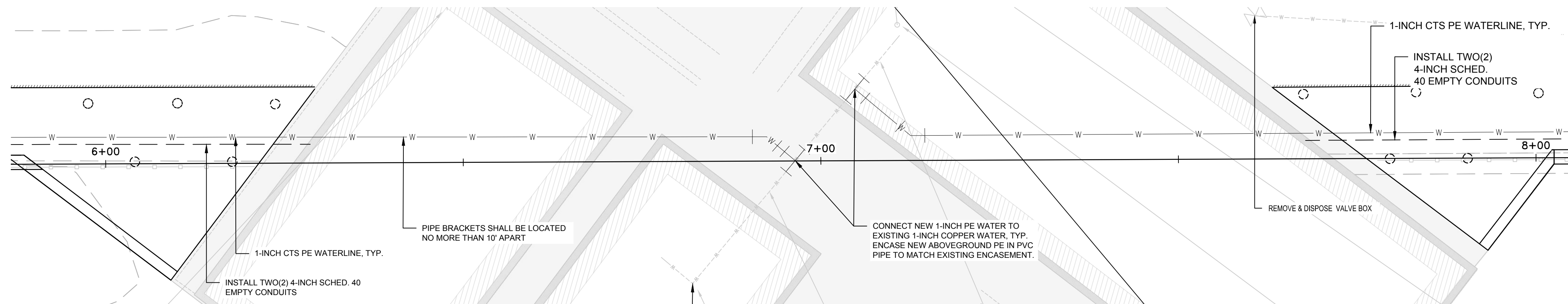


ROGER WHEELER STATE BEACH  
 BOARDWALK  
 NARRAGANSETT, RHODE ISLAND  
 RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



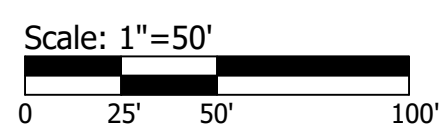
**PROPOSED UTILITY PLAN**

SCALE: 1"=50'



**INSET 1 - WATER TIE-IN**

SCALE: 1"=10'



REVISIONS:		
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 CHECKED BY: BMD  
 DRAWN BY: LMC  
 APPROVED BY: JMB

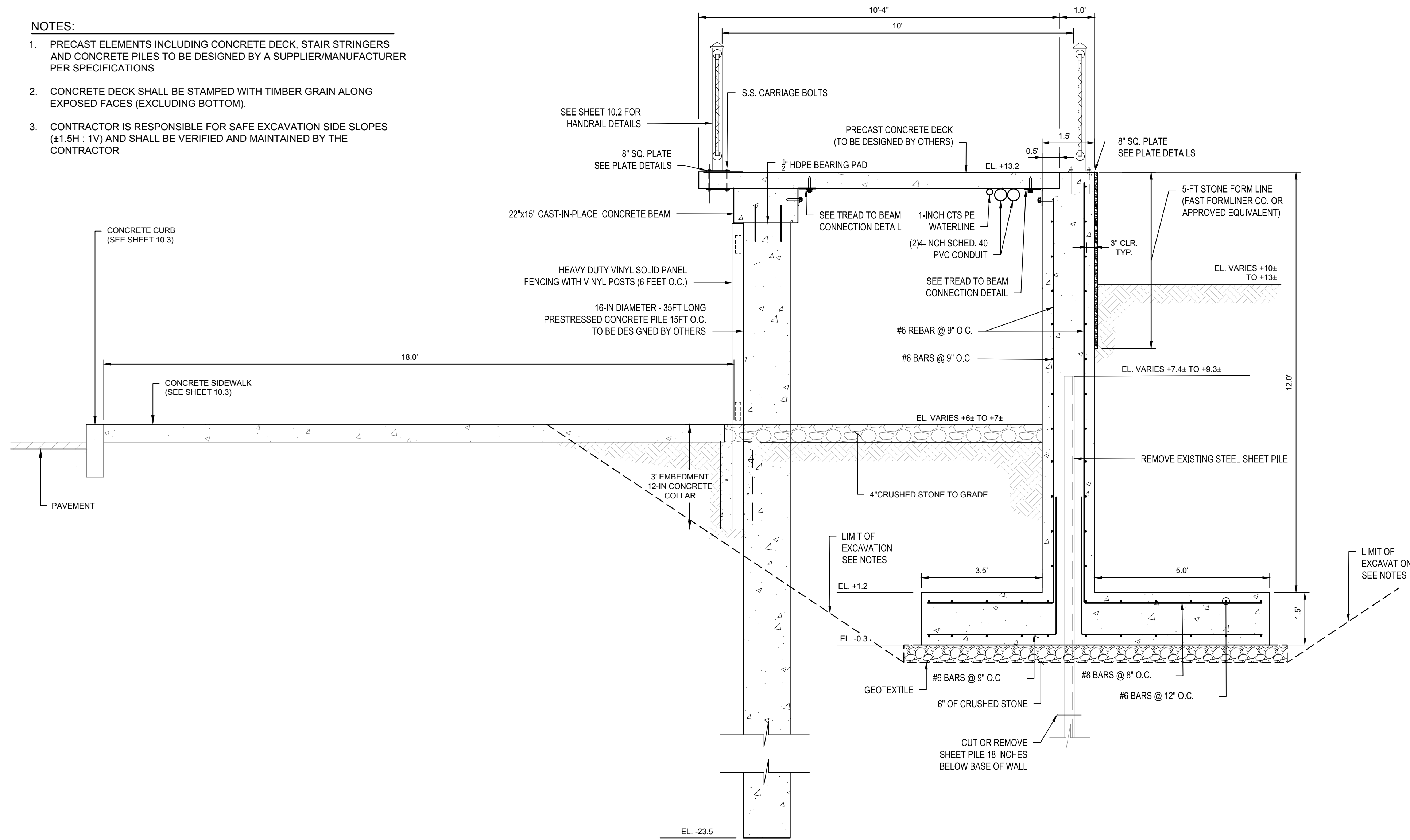
**PROPOSED UTILITY PLAN**

SHEET NO.: **6.0**

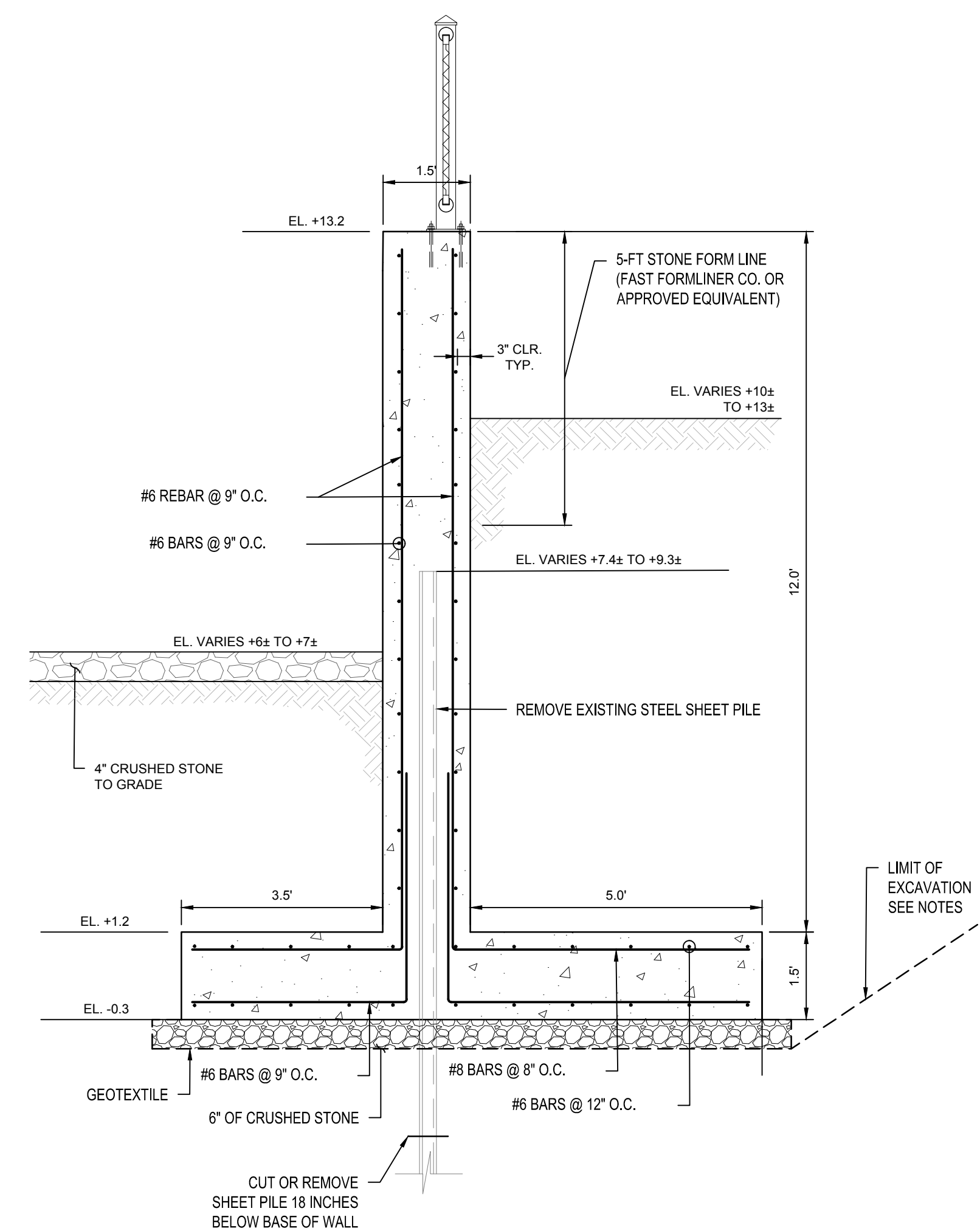
BID DOCUMENTS  
NOT FOR CONSTRUCTION



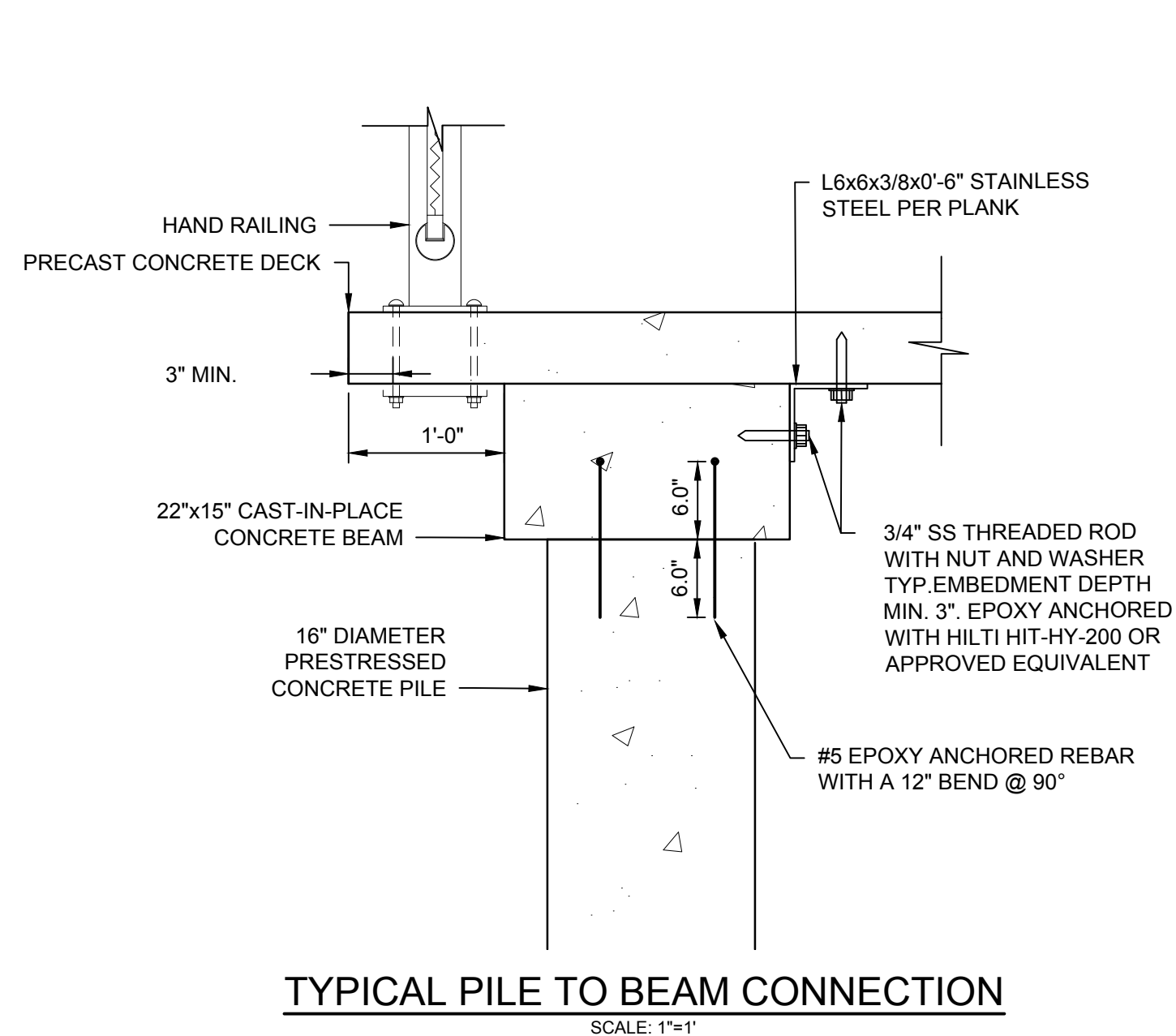
- NOTES:**
1. PRECAST ELEMENTS INCLUDING CONCRETE DECK, STAIR STRINGERS AND CONCRETE PILES TO BE DESIGNED BY A SUPPLIER/MANUFACTURER PER SPECIFICATIONS
  2. CONCRETE DECK SHALL BE STAMPED WITH TIMBER GRAIN ALONG EXPOSED FACES (EXCLUDING BOTTOM).
  3. CONTRACTOR IS RESPONSIBLE FOR SAFE EXCAVATION SIDE SLOPES (±1.5H : 1V) AND SHALL BE VERIFIED AND MAINTAINED BY THE CONTRACTOR



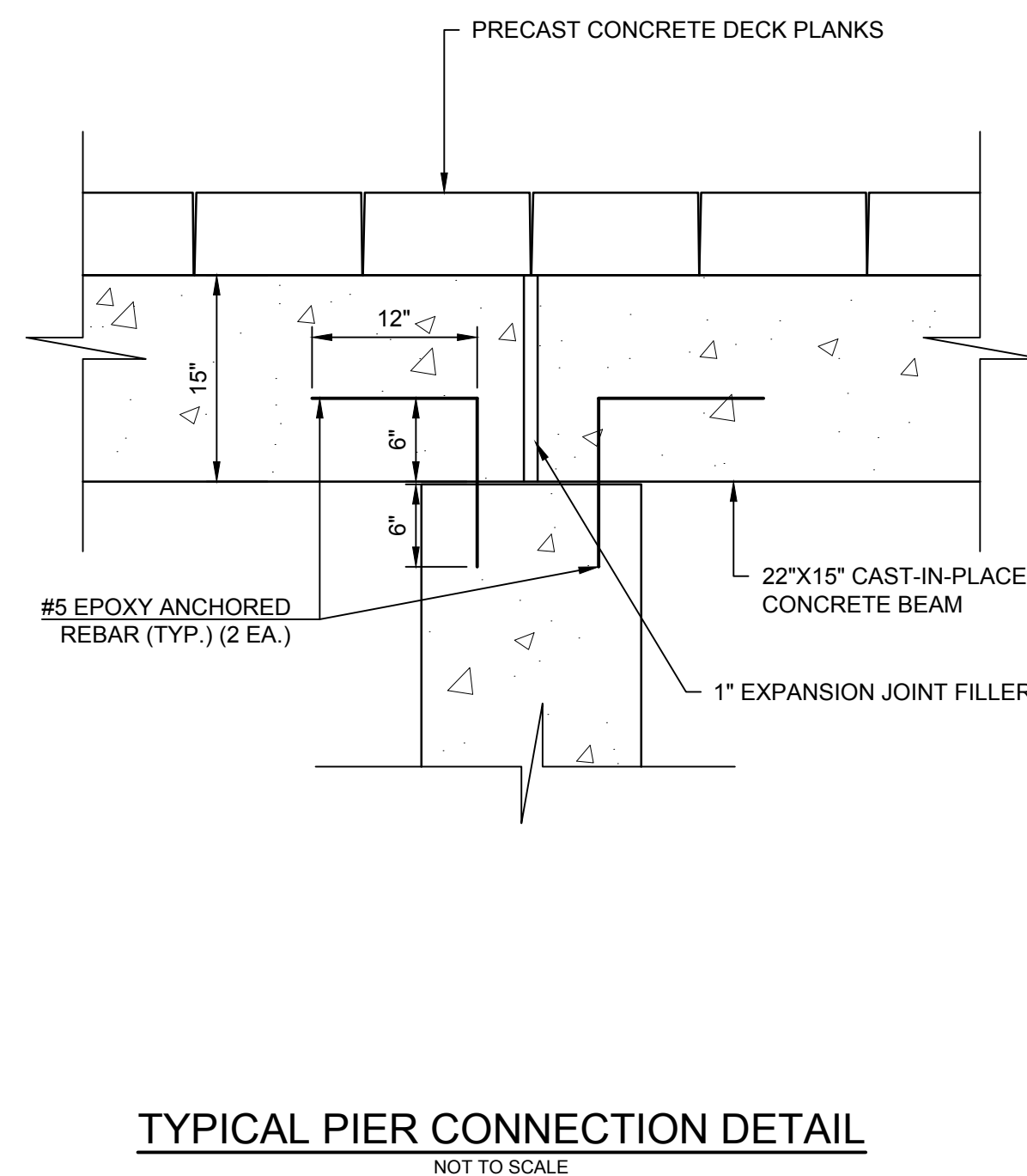
**SECTION A - TYPICAL WEST AND EAST BOARDWALK SECTION**  
SCALE: 1"=2'-0"



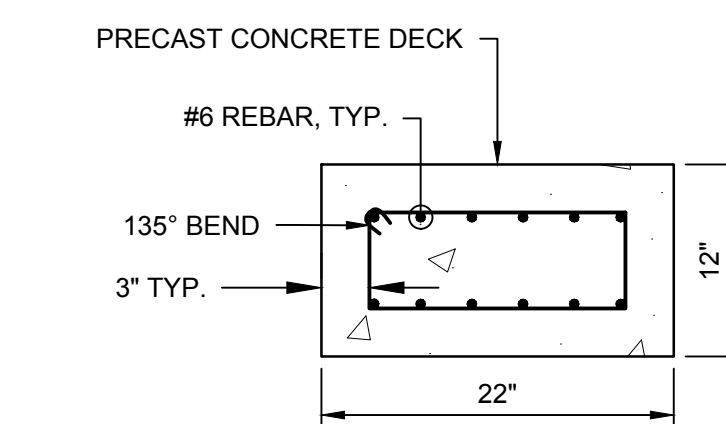
**SECTION B - STATION 0+00 TO 0+25**  
SCALE: 1"=2'-0"



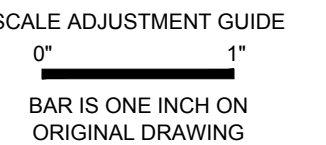
**TYPICAL PILE TO BEAM CONNECTION**  
SCALE: 1"=1'



**TYPICAL PIER CONNECTION DETAIL**  
NOT TO SCALE



**BEAM REINFORCEMENT DETAIL**  
NOT TO SCALE



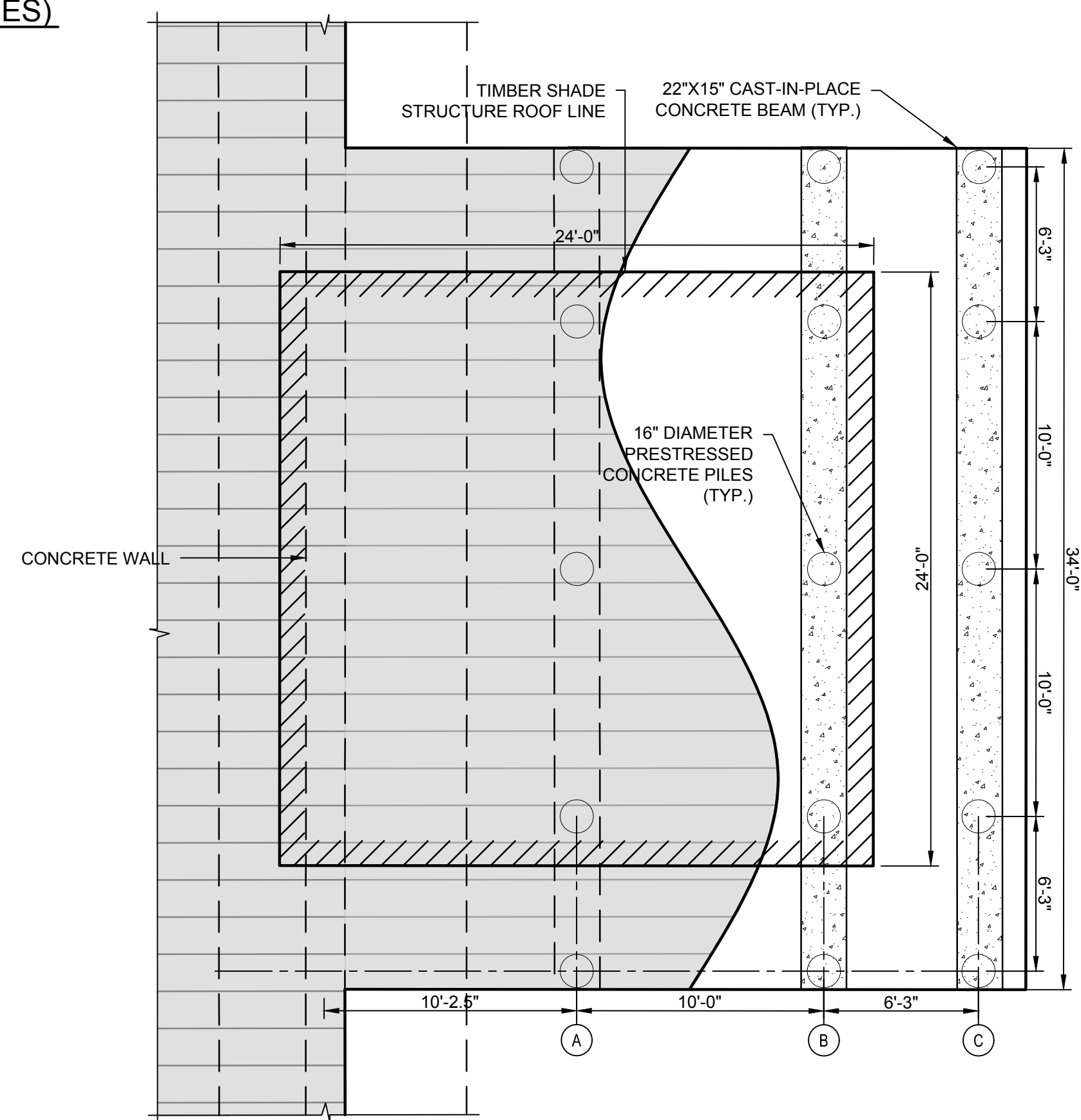
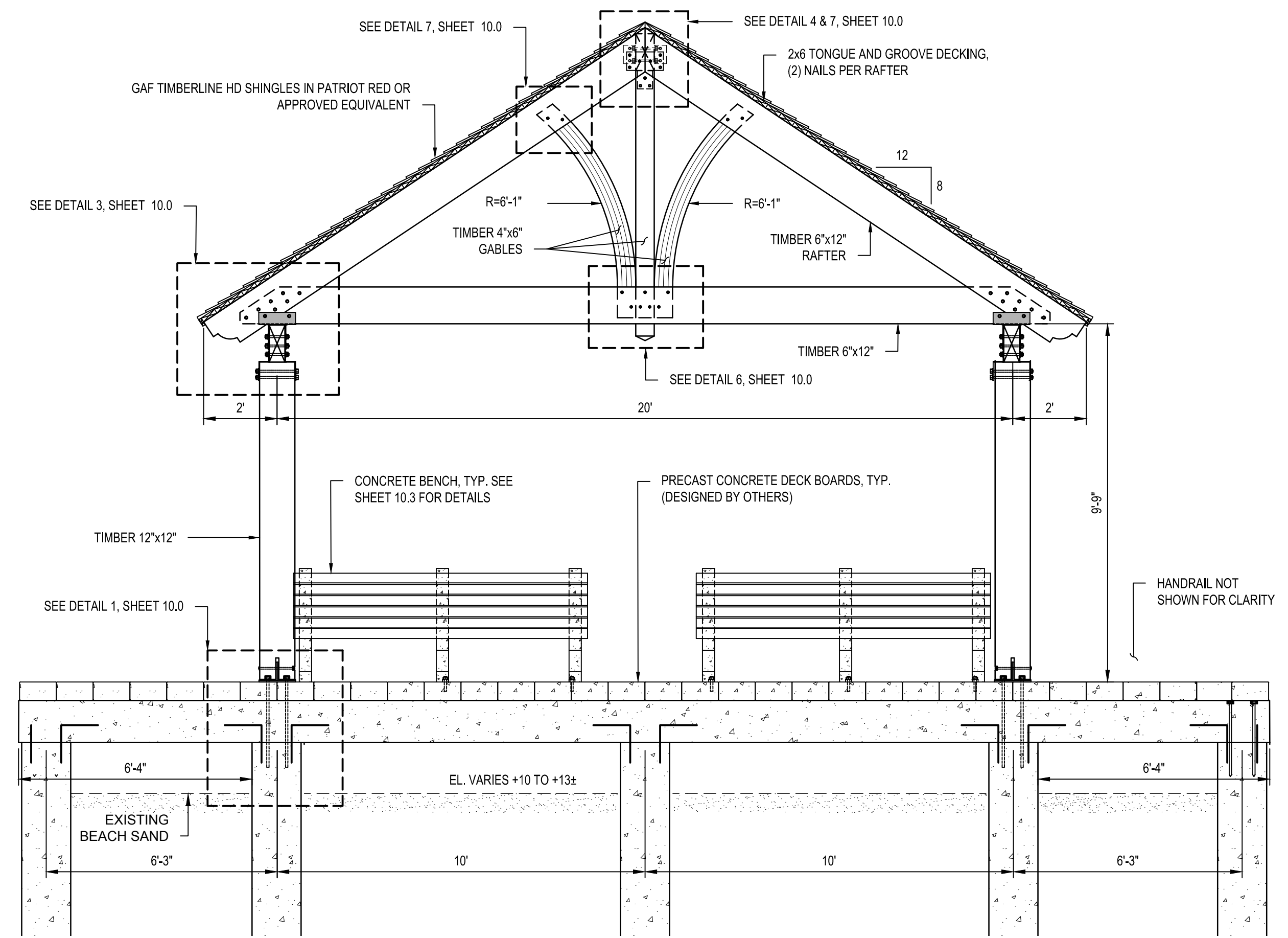
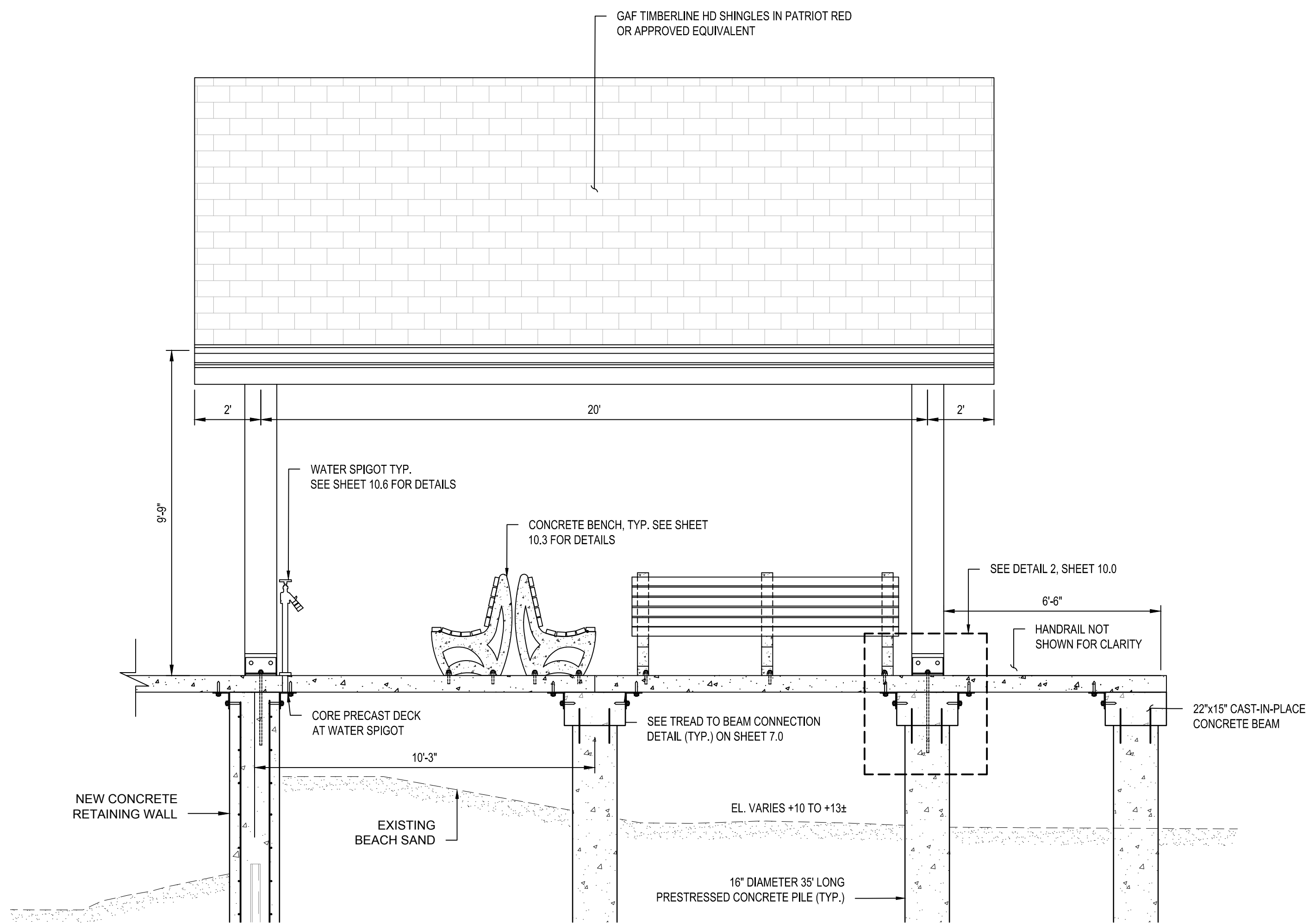
**ROGER WHEELER STATE BEACH BOARDWALK**  
NARRAGANSETT, RHODE ISLAND  
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

REVISIONS:		
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DRAWN BY: LMC  
APPROVED BY: JMB

PROPOSED SECTIONS AND DETAILS

SHEET NO.: 7.0



NOTES:

1. PROPOSED RAIL AND LATTICE NOT SHOWN FOR CLARITY.
2. TIMBER MEMBERS SHALL BE STRUCTURAL NO. 1 SOUTHERN YELLOW PINE DESIGNED FOR 30 PSF LIVE LOAD AND A NET UPLIFT OF 57 PSF (ULTIMATE WIND PRESSURE), UNLESS NOTED AS "SERVICE LOAD" ON THESE PLANS. DESIGN WIND LOADS ARE IN ACCORDANCE WITH ASCE 7-16 AND SHALL BE FACTORED AS REQUIRED FOR ASD OR STRENGTH DESIGN METHODS.

REVISIONS:		
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TIMBER SHADE  
 STRUCTURE SECTIONS

SHEET NO.: 8.0

**ROGER WHEELER STATE BEACH BOARDWALK**

NARRAGANSETT, RHODE ISLAND

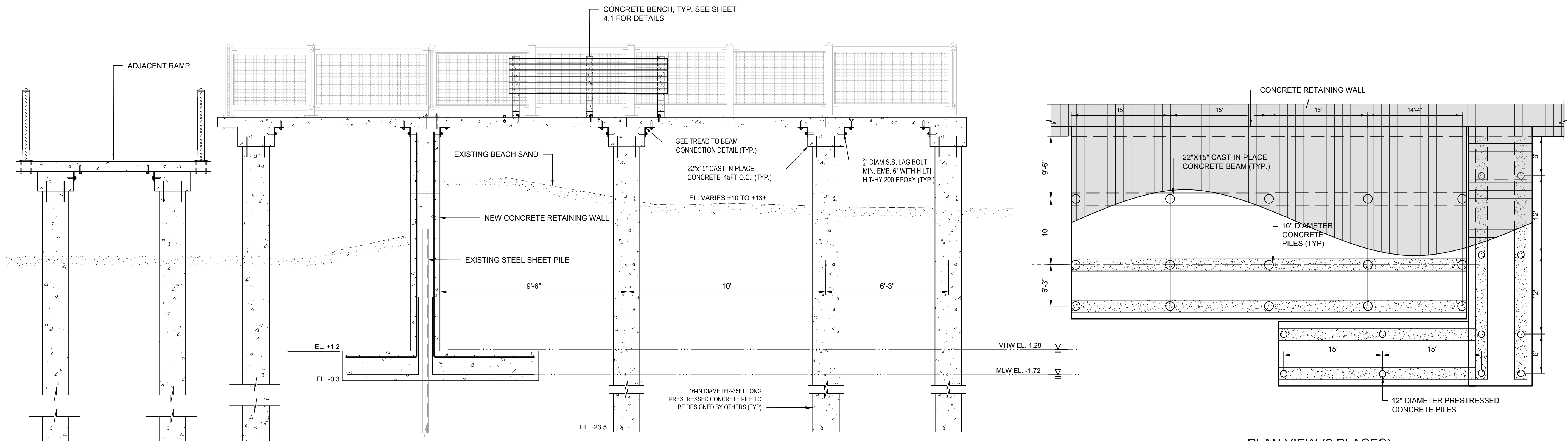
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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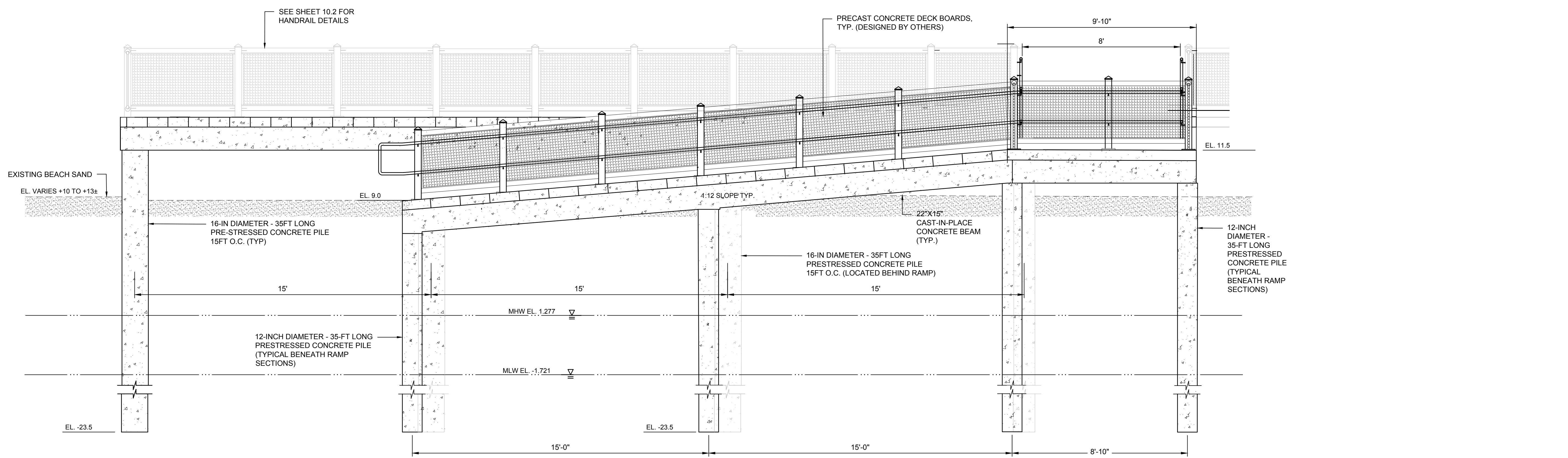
VIEWING PLATFORM SECTION

SHEET NO.: 9.0

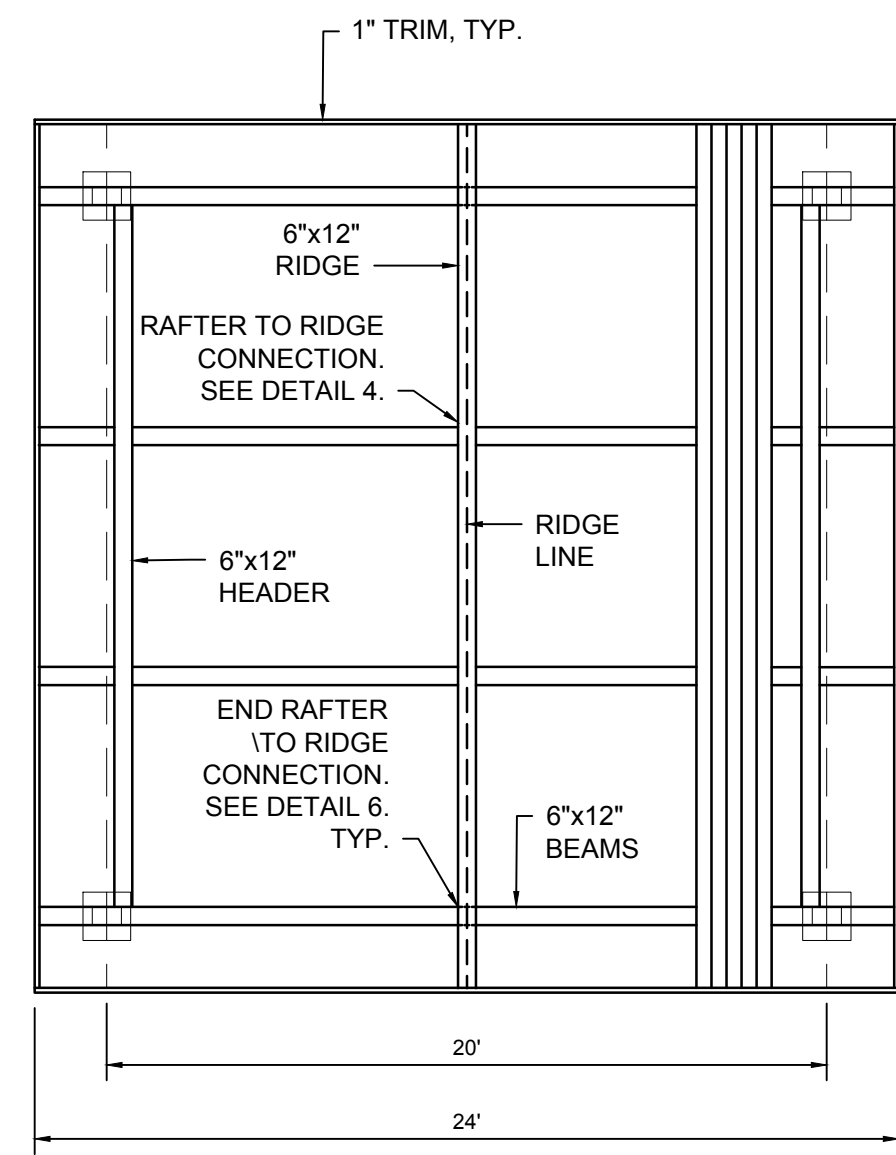


**SECTION E (2 PLACES)**  
SCALE: 3/8"=1'-0"

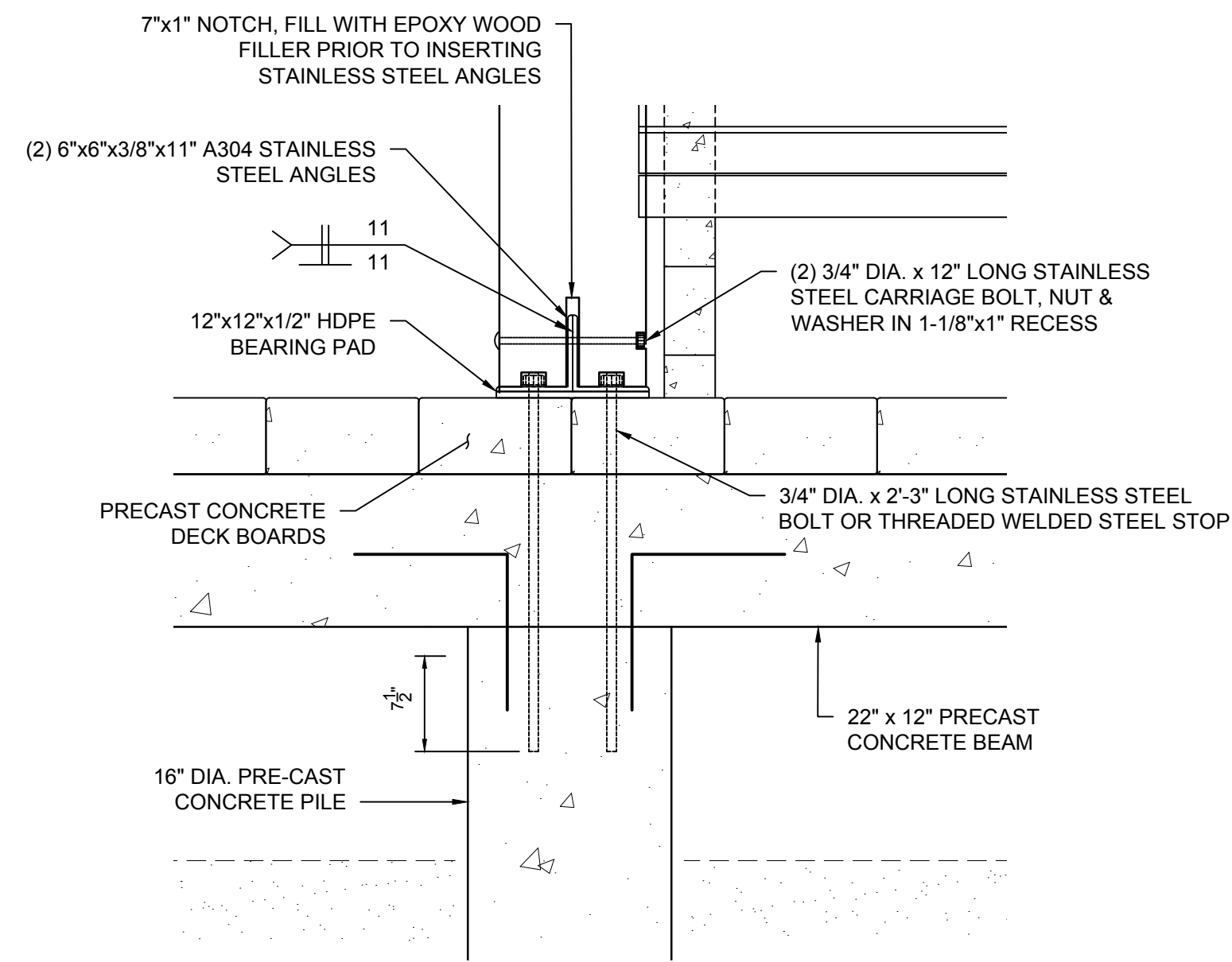
**PLAN VIEW (2 PLACES)**  
SCALE: 3/8"=1'-0"



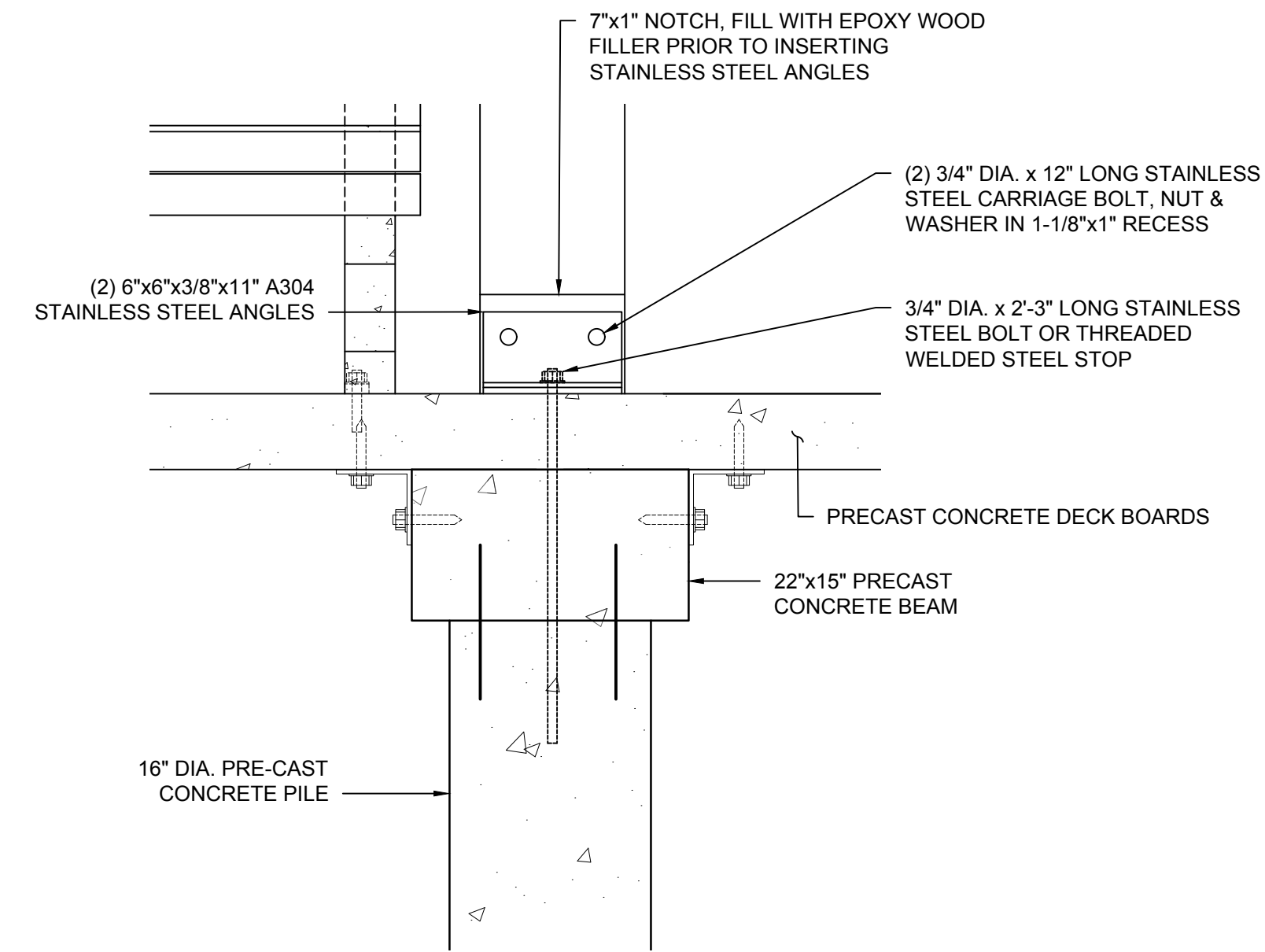
**SECTION F (2 PLACES)**  
SCALE: 3/8"=1'-0"



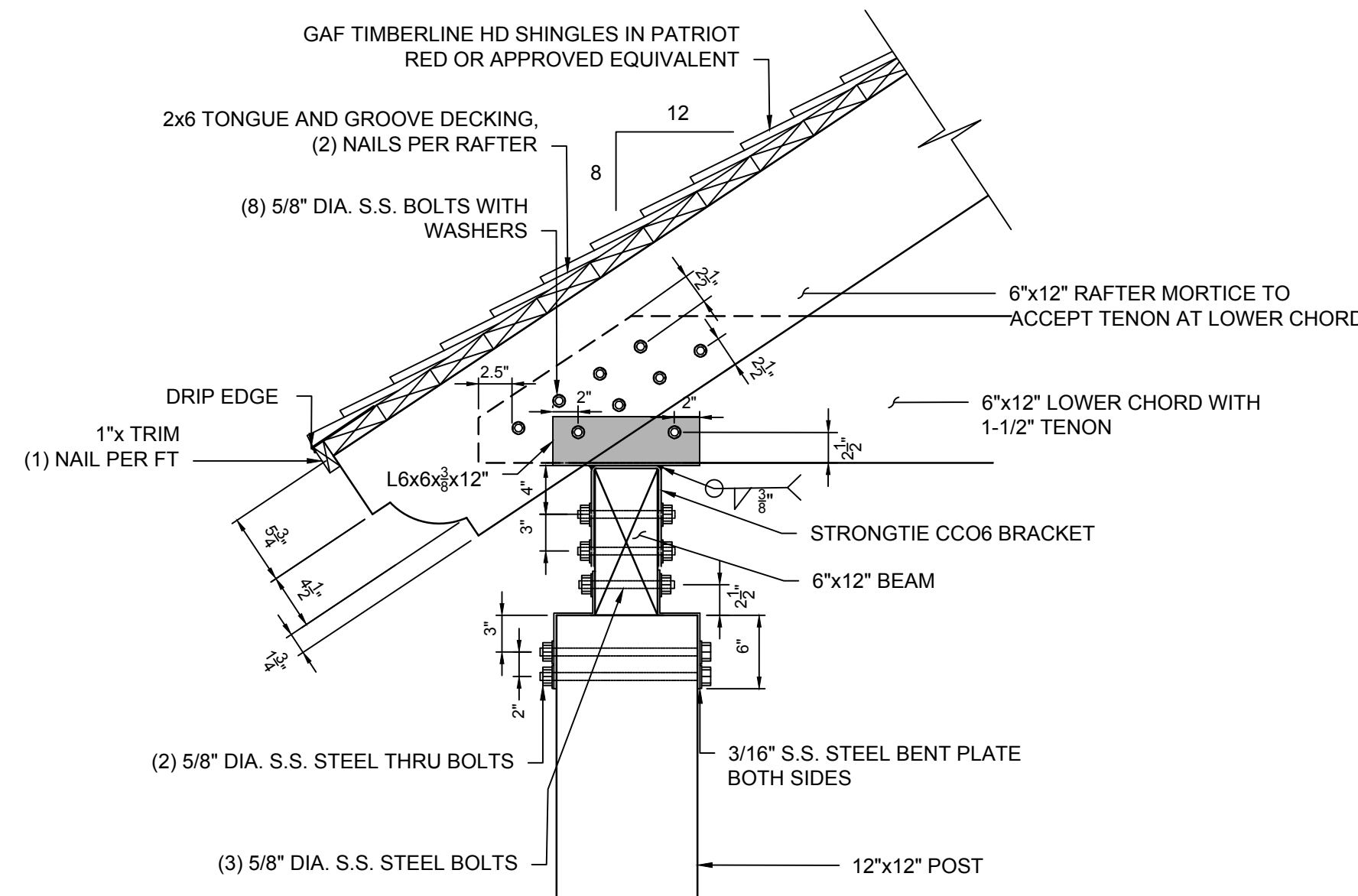
8.0 ROOF FRAMING PLAN  
SCALE: 3/16" = 1'-0"



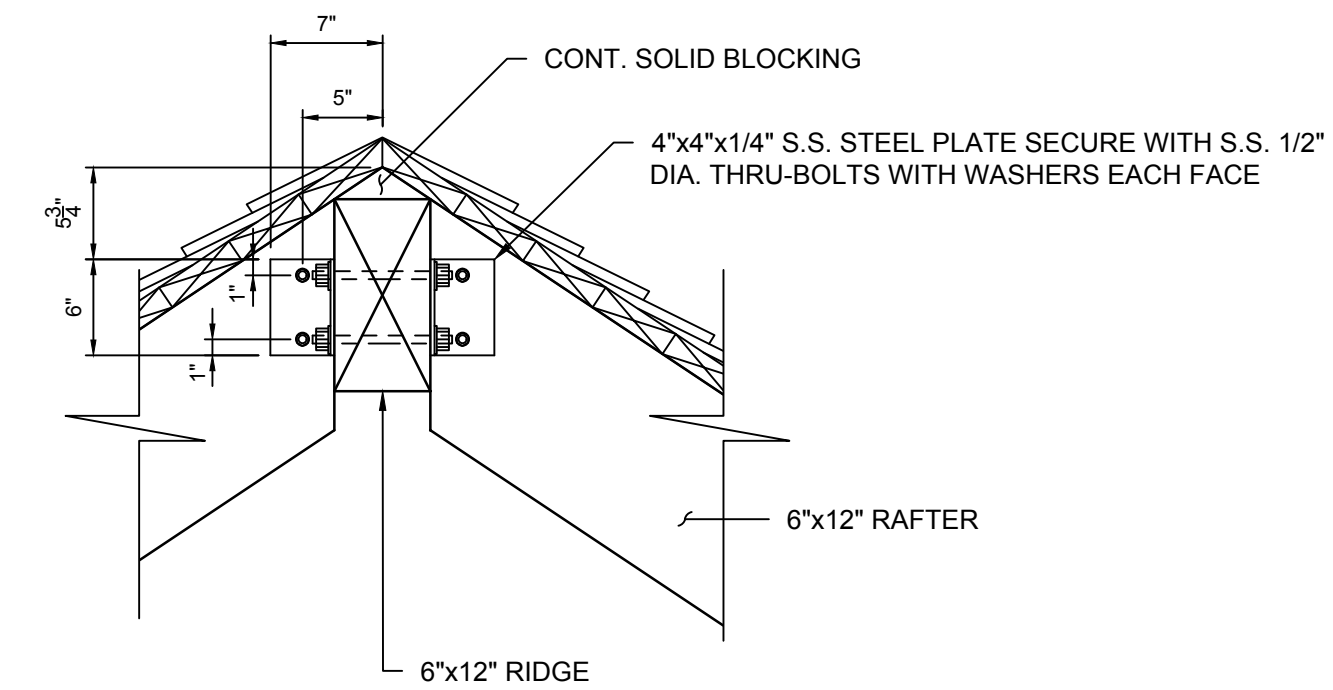
1.0 COLUMN CONNECTION DETAIL  
SCALE: 1" = 1'-0"



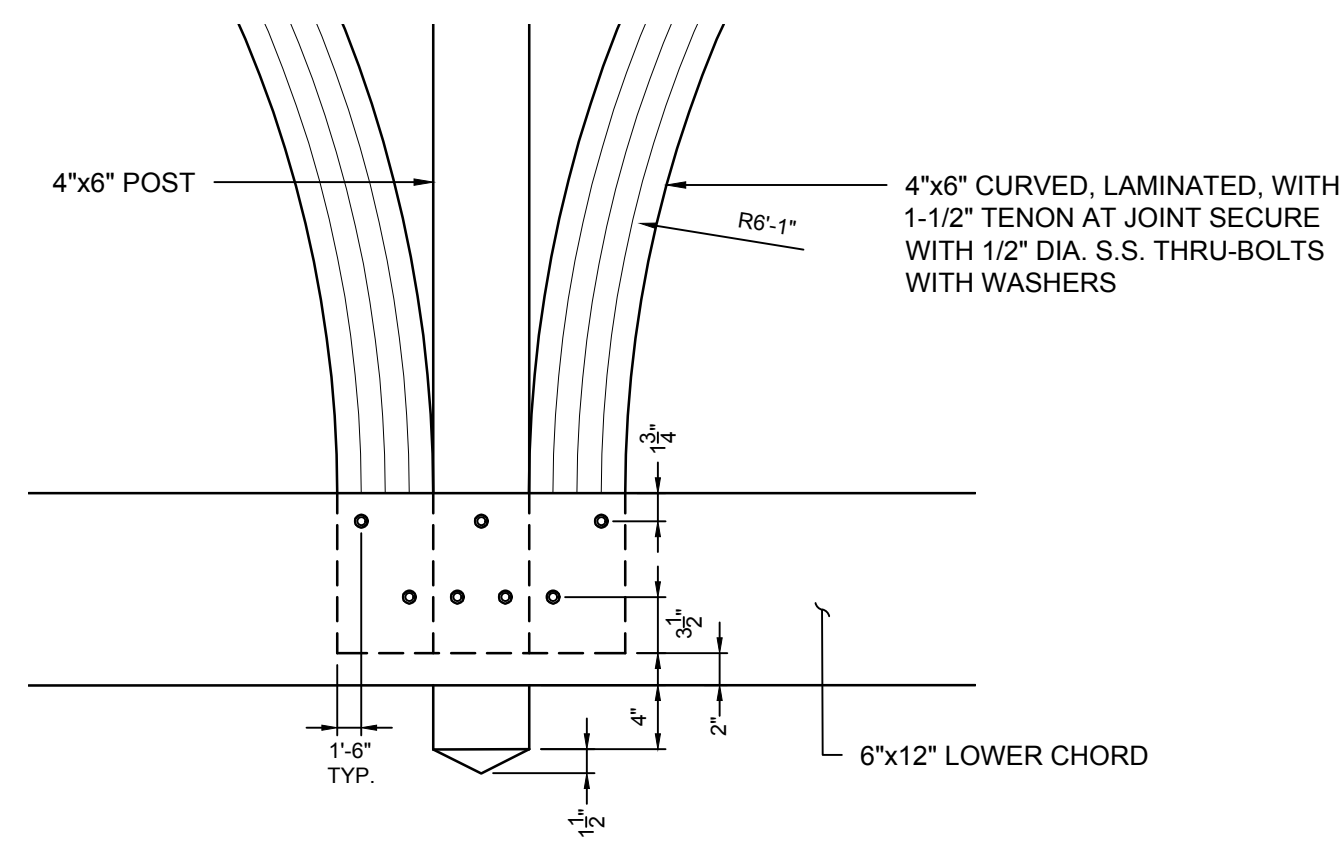
2.0 COLUMN CONNECTION DETAIL  
SCALE: 1" = 1'-0"



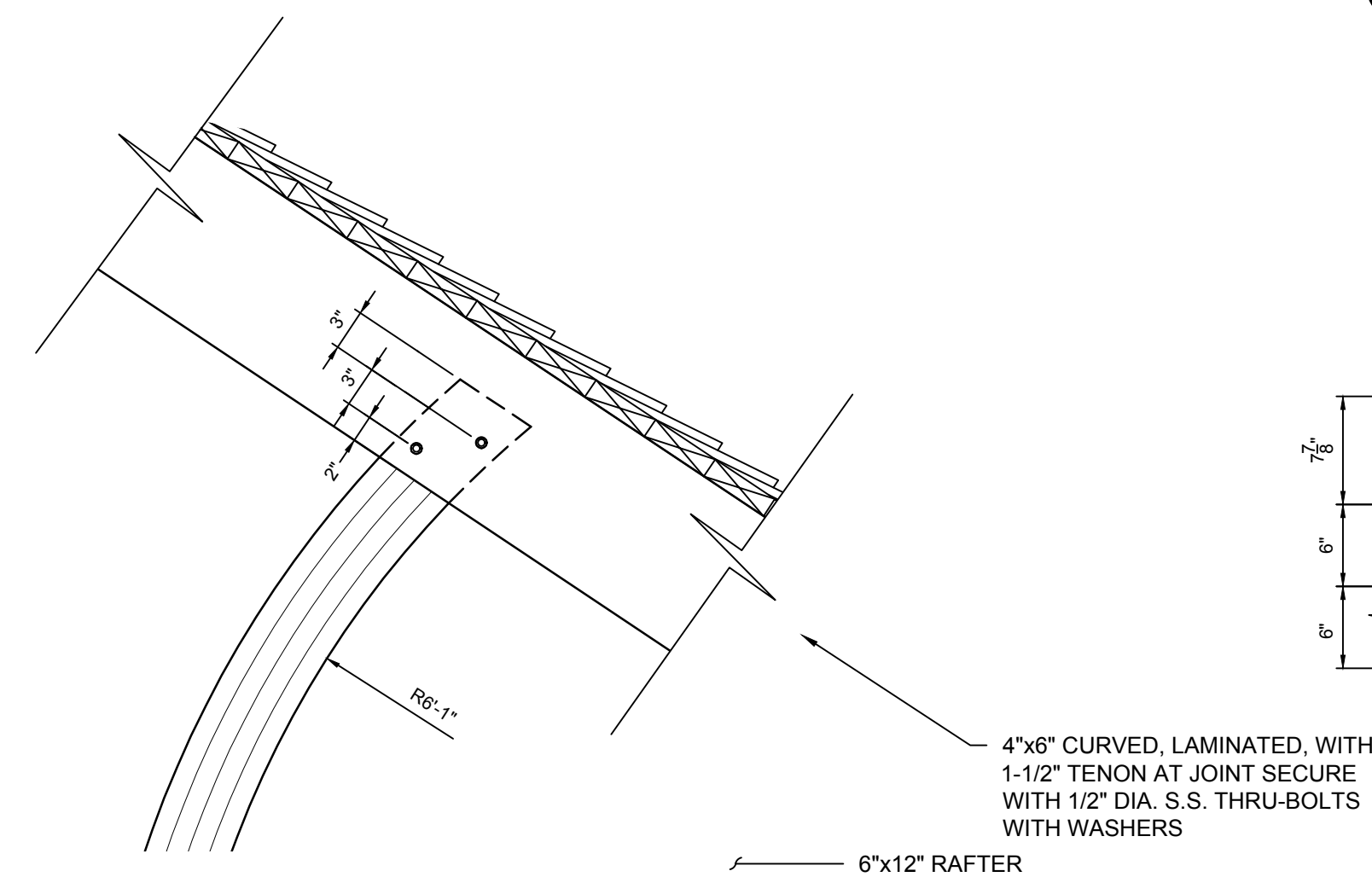
3.0 RAFTER TO BEAM AT EAVE  
SCALE: 1" = 1'-0"



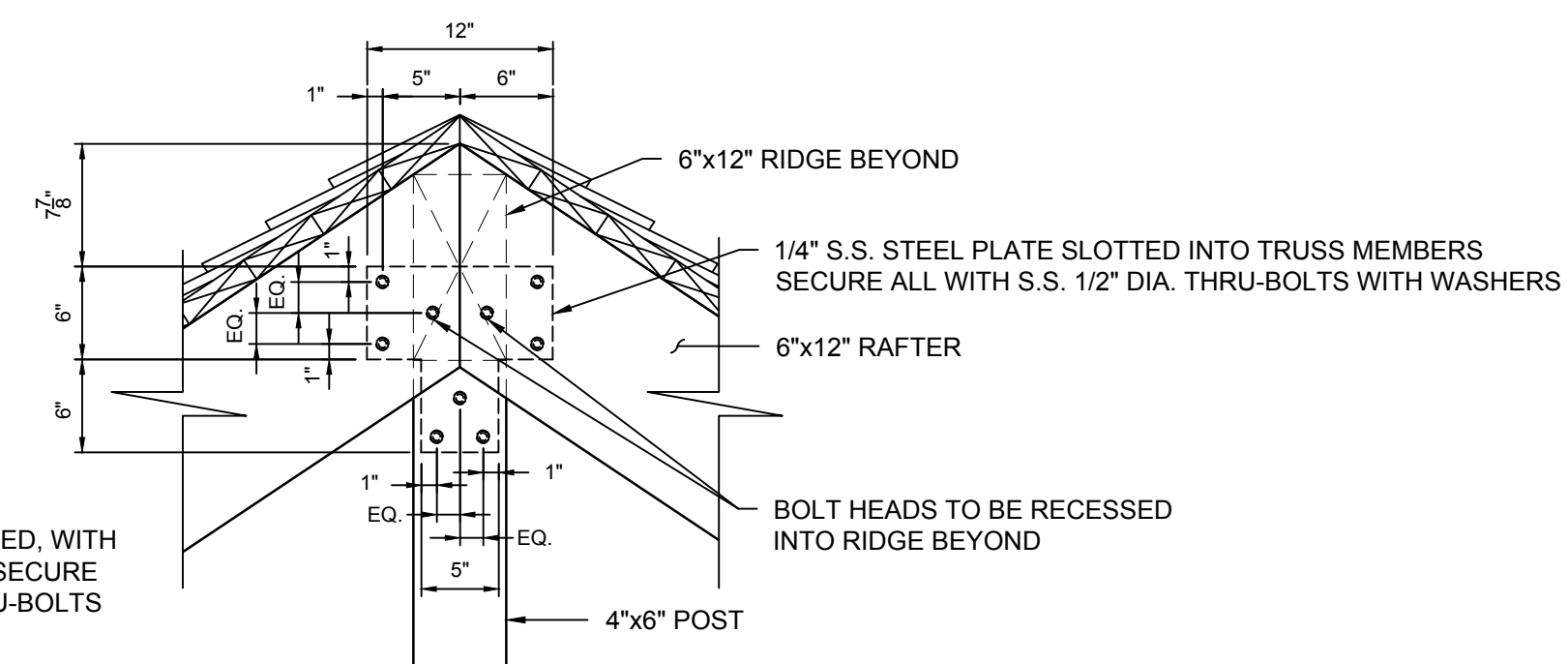
4.0 RAFTER TO RIDGE  
SCALE: 1" = 1'-0"



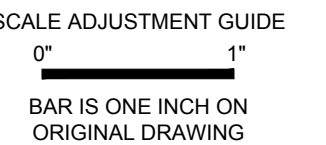
5.0 CENTER BOTTOM CHORD AT GABLE END TRUSS  
SCALE: 1" = 1'-0"



6.0 DIAGONAL AT TOP CHORD AT GABLE END TRUSS  
SCALE: 1" = 1'-0"



7.0 RAFTER TO RIDGE AT GABLE END  
SCALE: 1" = 1'-0"



ROGER WHEELER STATE BEACH BOARDWALK

NARRAGANSETT, RHODE ISLAND

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

REVISIONS:		
0	IFB	04/09/2024

PROJECT NO.: 19131.00  
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 CHECKED BY: BMD  
 DRAWN BY: LMC  
 APPROVED BY: JMB

TIMBER SHADE STRUCTURE DETAILS

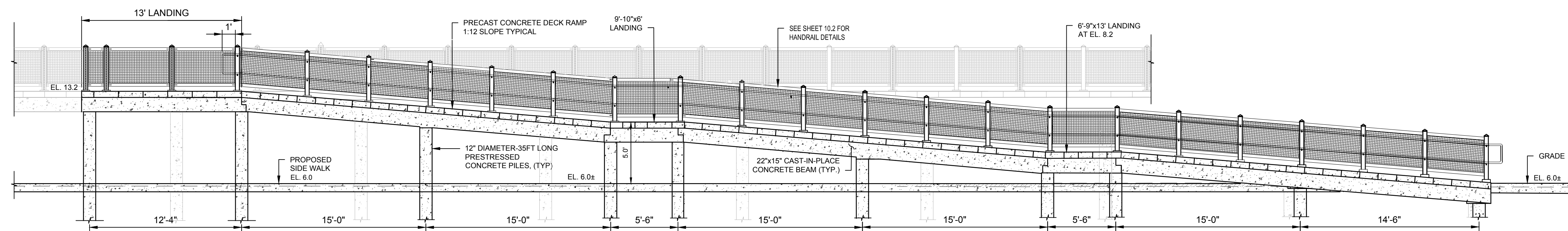
SHEET NO.: 10.0

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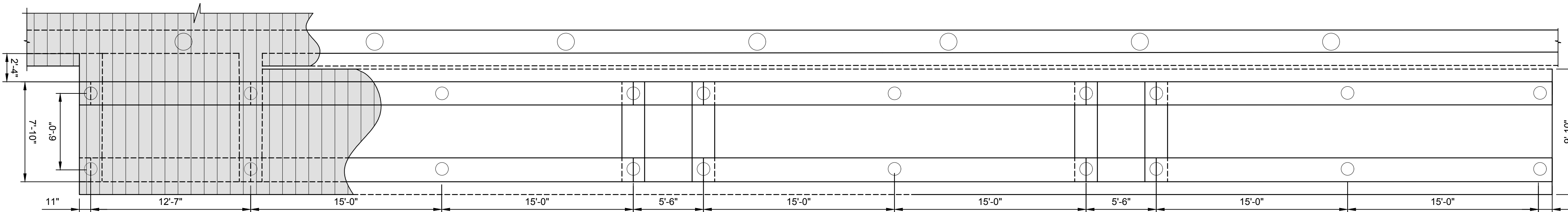
STAIR AND RAMP DETAILS

SHEET NO.: 10.1



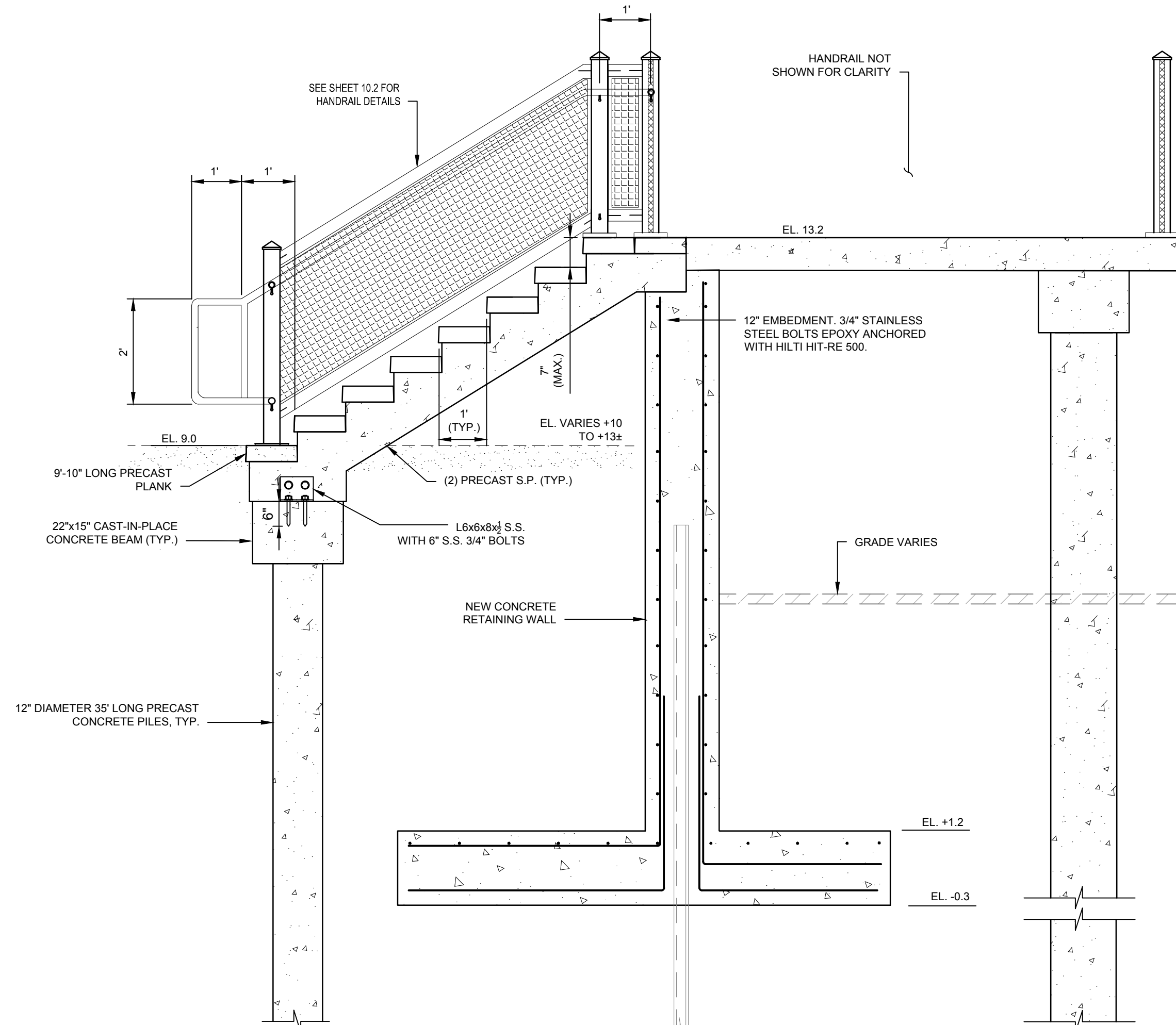
SECTION ELEVATION VIEW LANDWARD RAMPS (TYP. 2 PLACES)

SCALE: 3/16"=1"



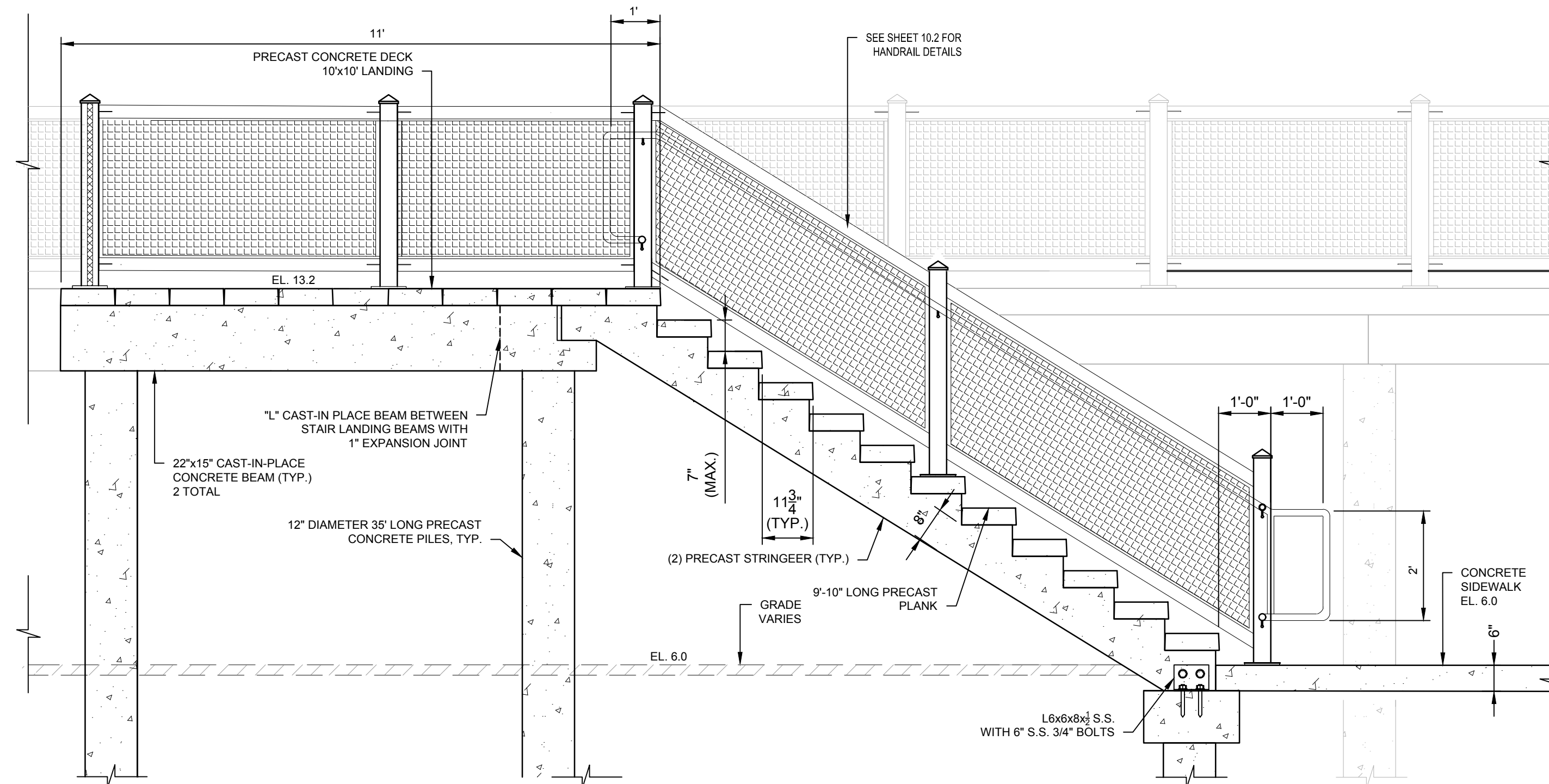
PLAN VIEW LANDWARD RAMPS (TYP. 2 PLACES)

SCALE: 3/16"=1"



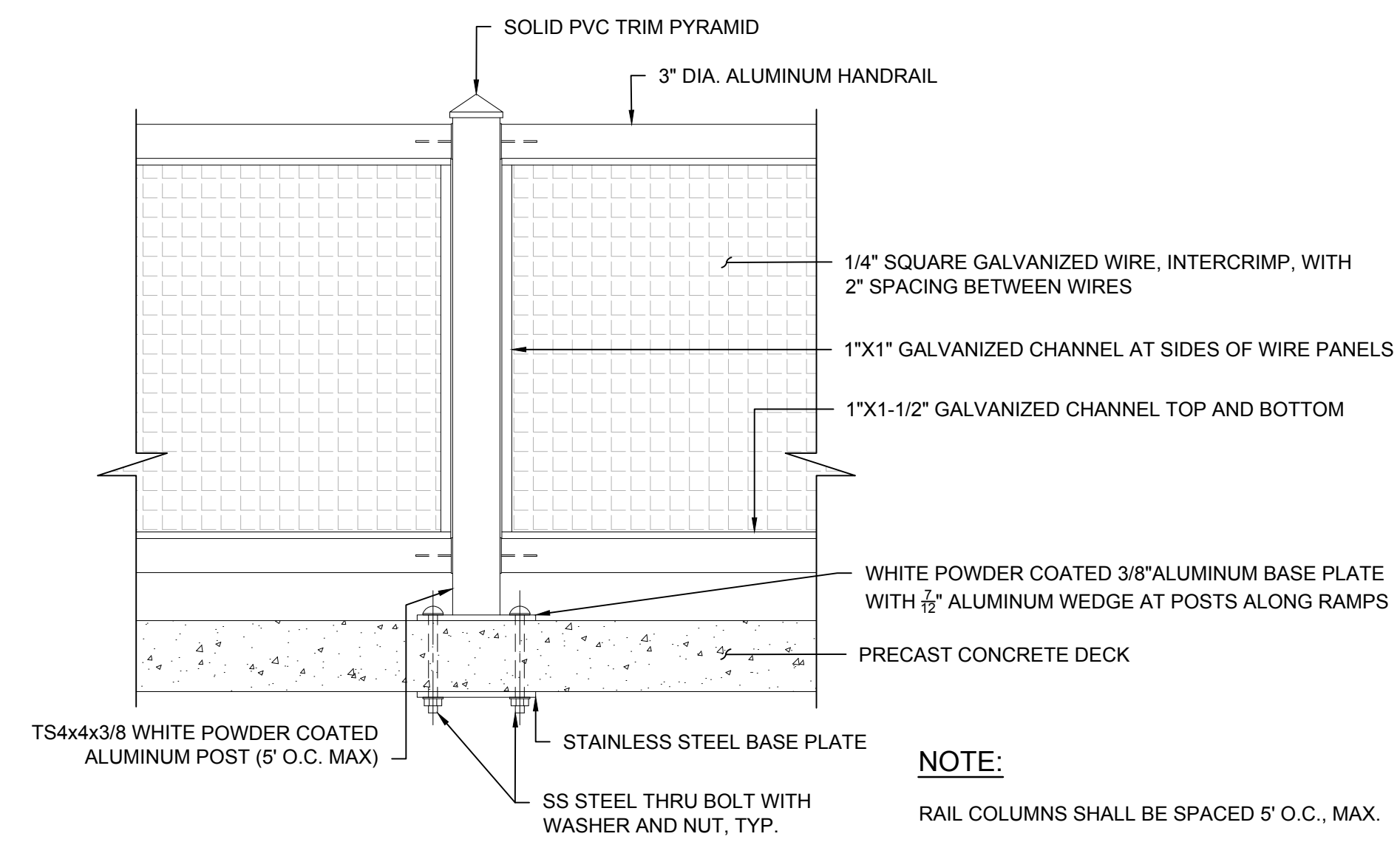
SEAWARD STAIR SECTION (TYP 6 PLACES)

SCALE: 1"=2'

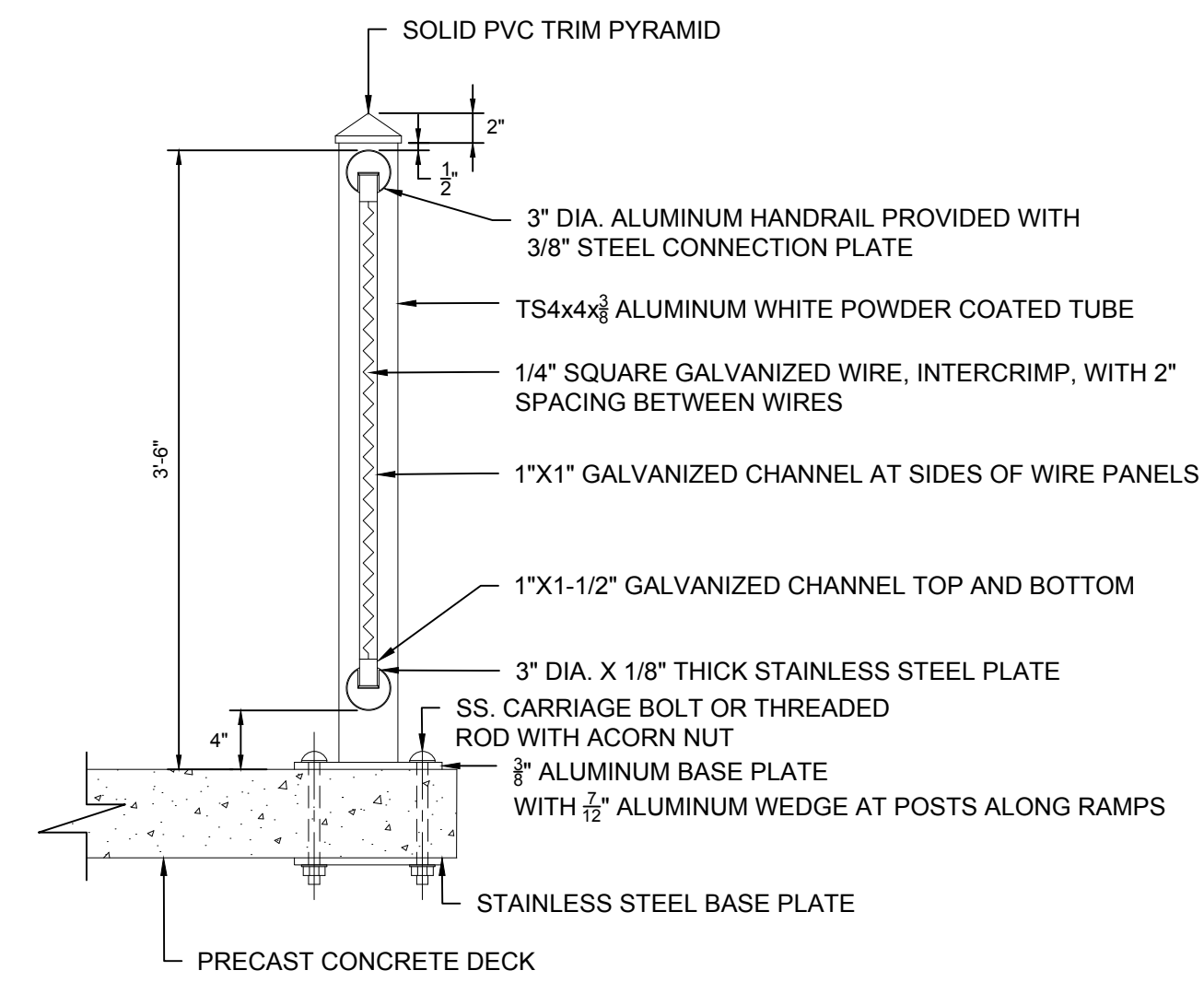


LANDWARD STAIR SECTION (TYP 6 PLACES)

SCALE: 1"=2'



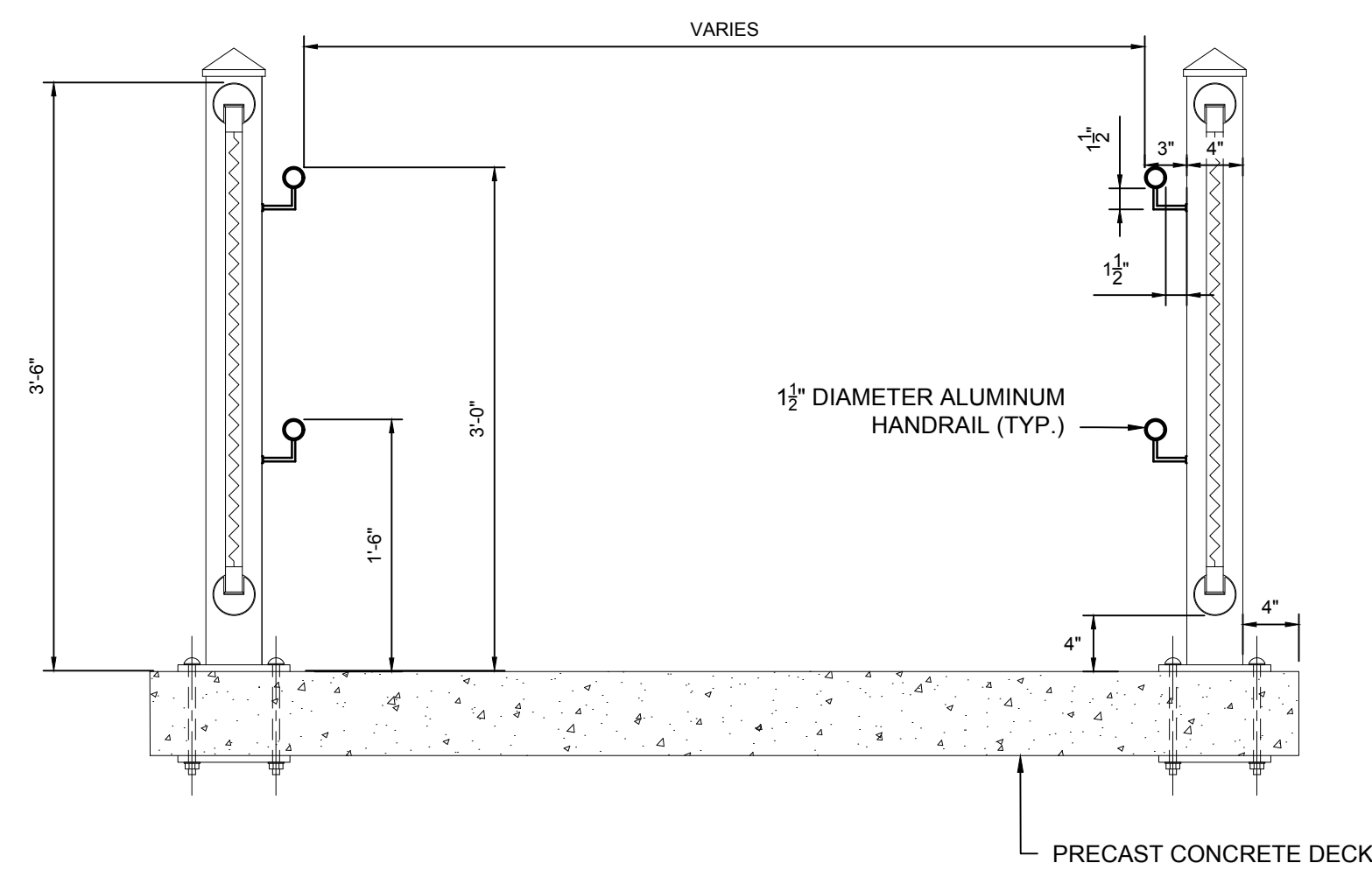
**ALUMINUM RAIL ELEVATION DETAIL**  
SCALE: 1"=1'-0"



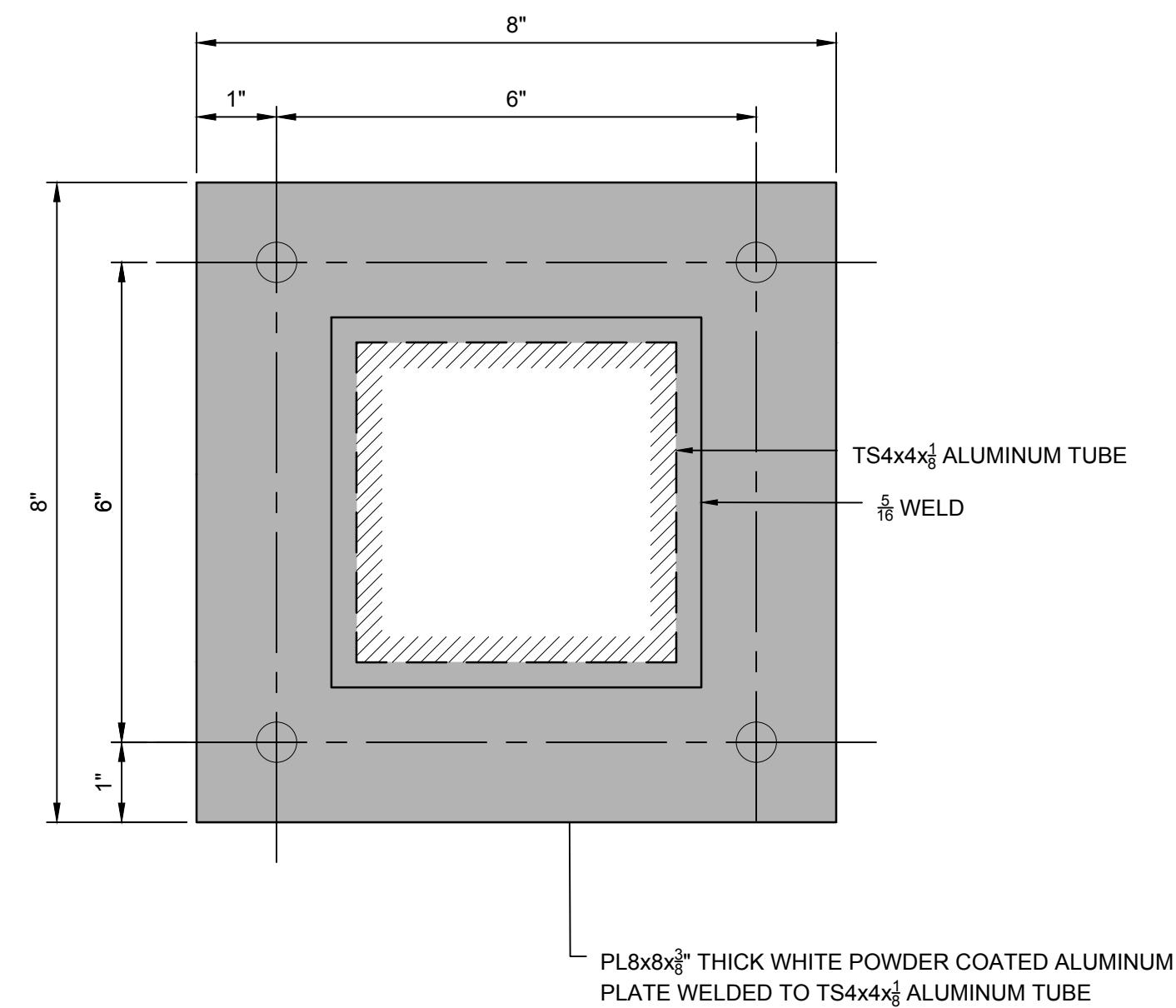
**RAIL SECTION DETAIL**  
SCALE: 1"=1'-0"

**NOTE:**

1. ALUMINUM MEMBER SHALL BE MINIMUM 6063-T52 WITH MINIMUM YIELD STRENGTH OF 21KSI.



**TYPICAL HANDRAIL DETAIL**  
SCALE: 1"=1'-0"



**NOTE:**

- ANGLE OF PLATE TO CONFORM TO ANGLE OF RAILS.

**DETAIL A**  
SCALE: 6"=1"

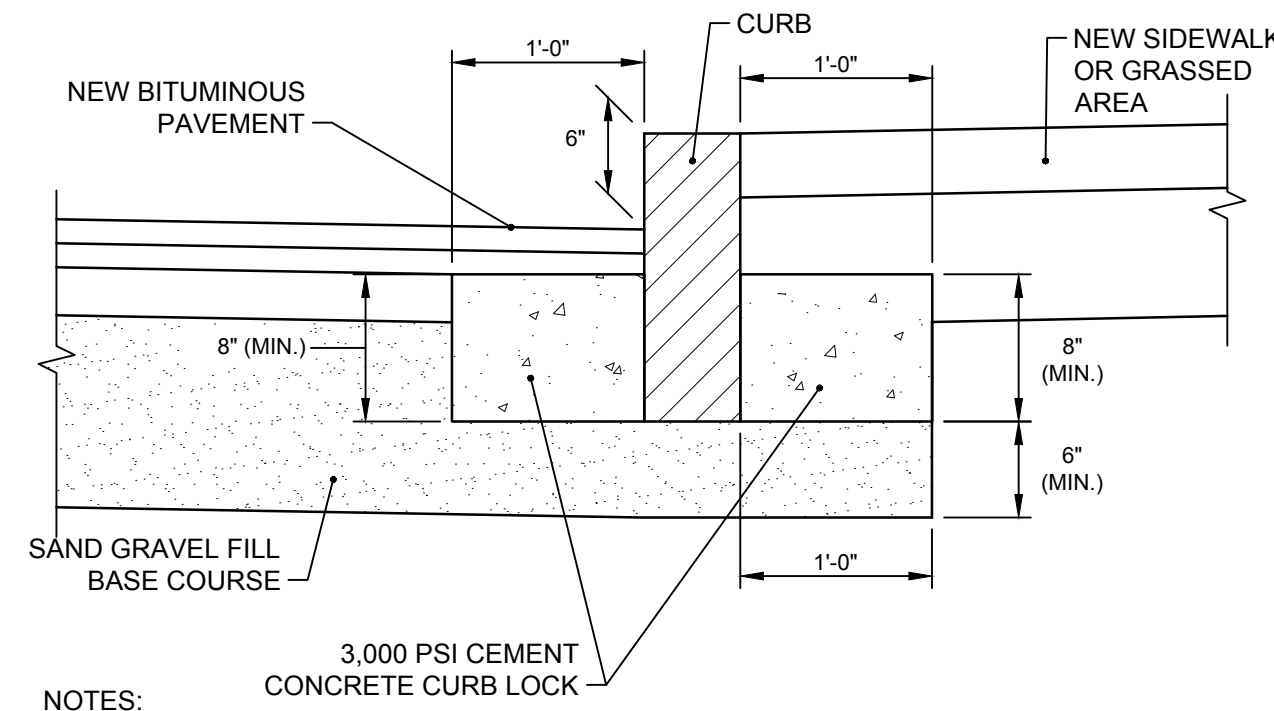
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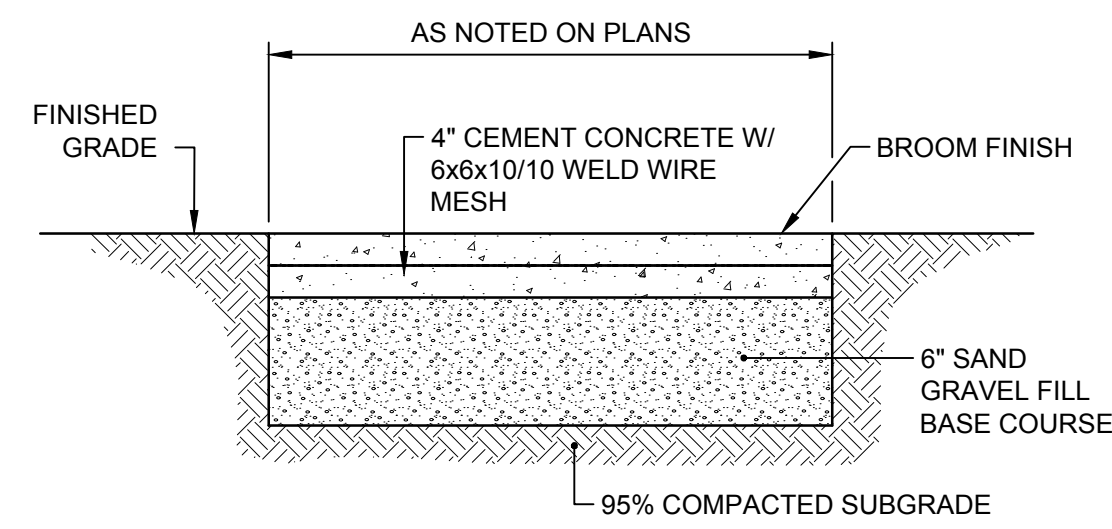
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HANDRAIL DETAILS

SHEET NO.:

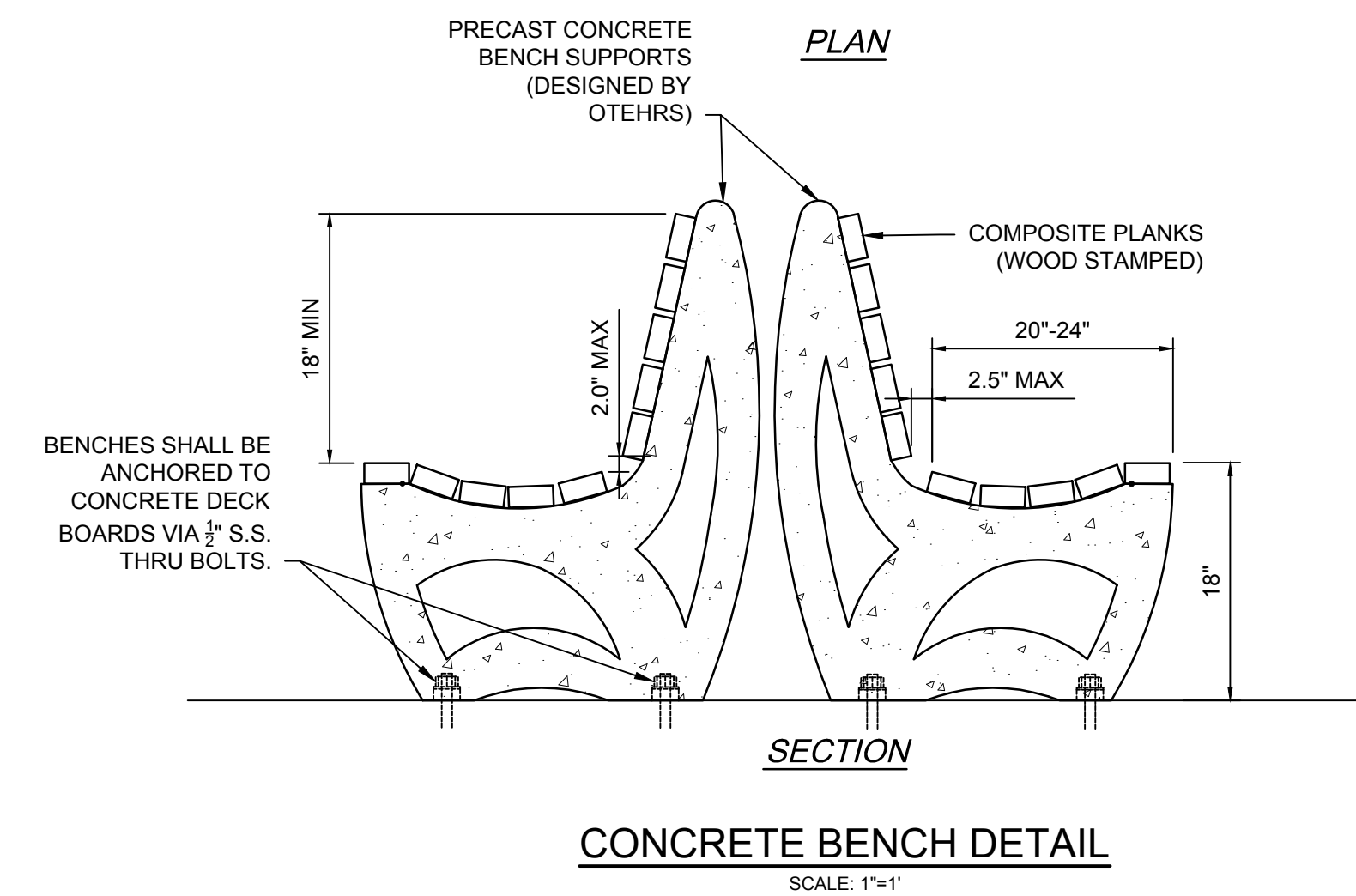
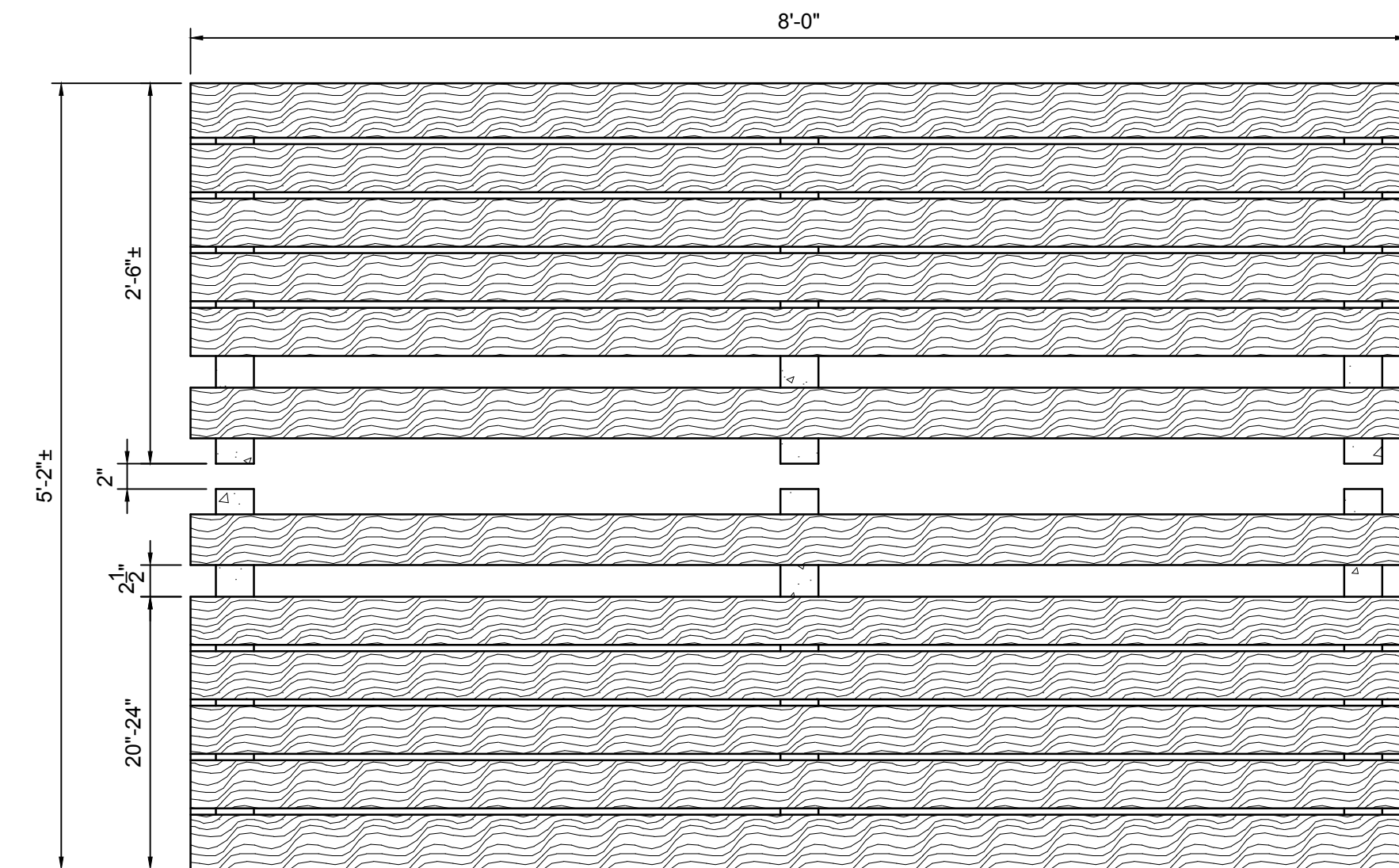


- NOTES:**
1. SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
  2. PROVIDE CEMENT CONCRETE CURB LOCK ON ALL CURBS
- CURB SETTING DETAIL**  
NOT TO SCALE

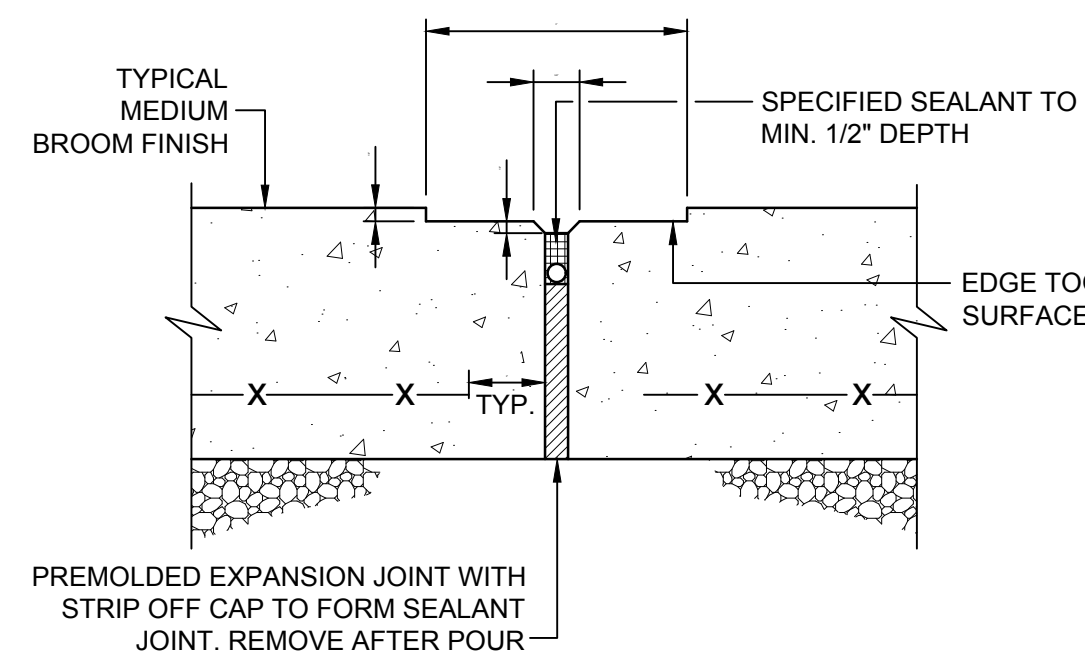


- NOTES:**
1. CONCRETE SIDEWALK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 905 OF THE RI STANDARD SPECIFICATIONS.
  2. WIRE MESH SHALL BE IN ACCORDANCE WITH SECTION M.05.02 OF THE RI STANDARD SPECIFICATIONS.

**TYPICAL CEMENT CONCRETE SIDEWALK**  
NOT TO SCALE



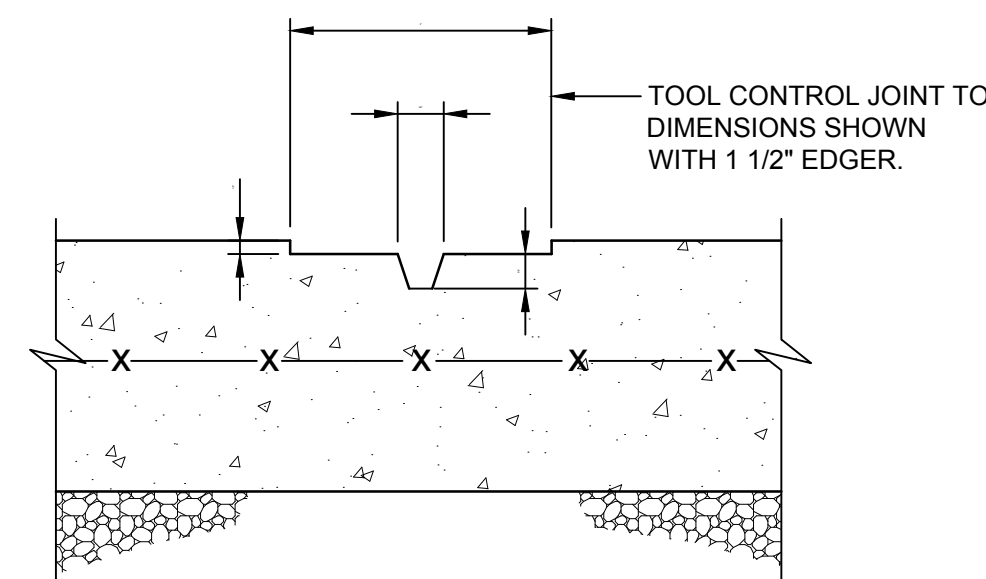
**CONCRETE BENCH DETAIL**  
SCALE: 1"=1'



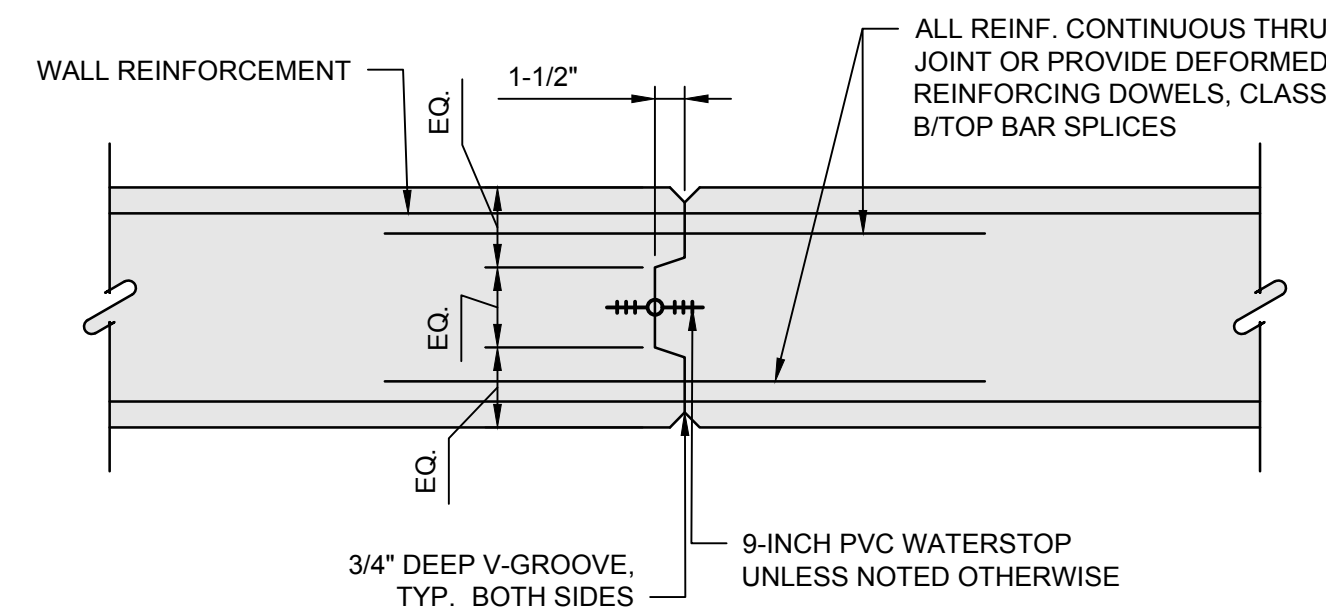
**CONCRETE SIDEWALK EXPANSION JOINT AT 20' O.C. (TYP)**

- NOTES:**
1. EXPANSION JOINTS (E.J.) 20 FEET O.C. UNLESS OTHERWISE NOTED.
  2. CONTROL JOINTS (C.J.) 5 FEET O.C. UNLESS OTHERWISE NOTED.
  3. WHERE EXISTING AND NEW CONCRETE SIDEWALKS MEET, SAWCUT EXISTING WALK AND INSTALL EXPANSION JOINT AND DOWELS AS SHOWN. DRILL EXISTING CONCRETE WALK EDGE TO RECEIVE STEEL DOWELS AT EXPANSION JOINT.
  4. REFER TO LANDSCAPE PLANS FOR LOCATIONS.

**EXPANSION AND CONTROL JOINTS FOR SIDEWALK PAVING**  
NOT TO SCALE

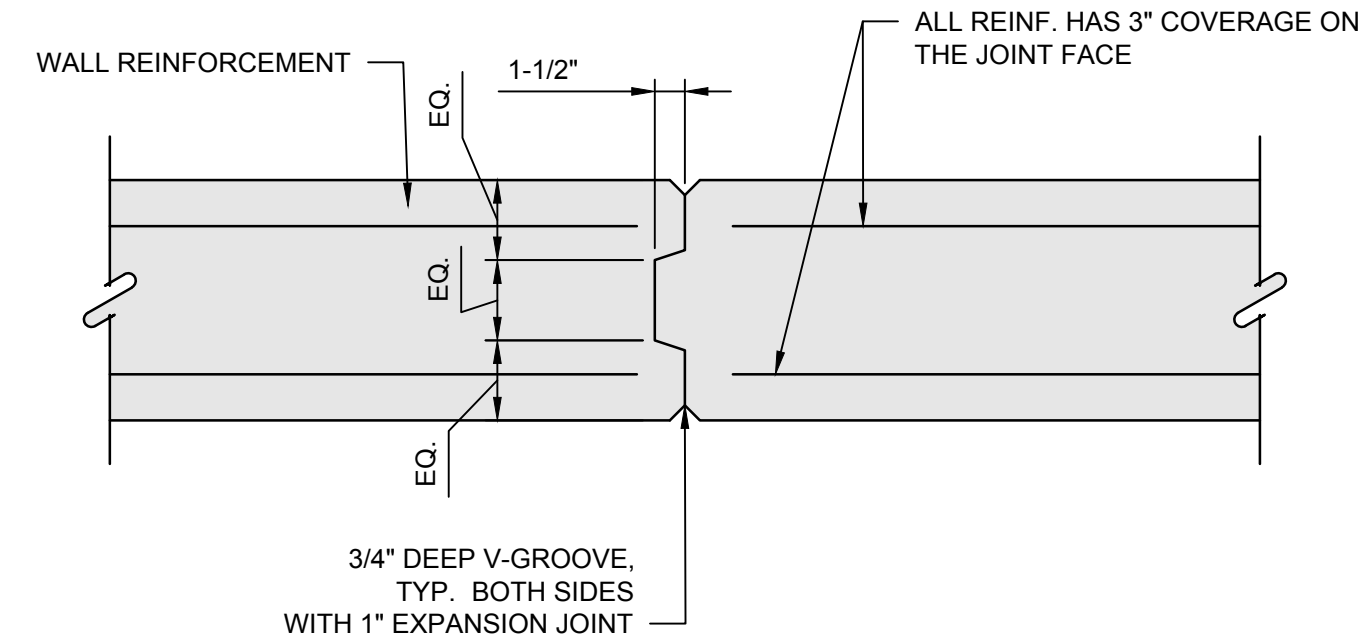


**CONTROL JOINT AT 5' O.C. (TYP)**



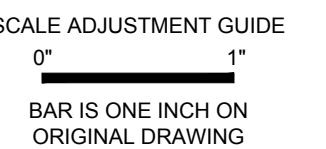
- NOTE:**
- PROVIDE CONSTRUCTION JTS @ 80' O.C. (MAX.) ALTERNATE PLACING OF PANELS, ALLOWING 36 HOURS FROM THE END OF ONE POUR TO THE BEGINNING OF ADJACENT POURS.

**TYPICAL WALL CONCRETE CONSTRUCTION JOINT DETAIL**  
SCALE: 1"=1'-0"



- NOTE:**
- PROVIDE CONSTRUCTION JTS @ 60' O.C. (MAX.) ALTERNATE PLACING OF PANELS, ALLOWING 36 HOURS FROM THE END OF ONE POUR TO THE BEGINNING OF ADJACENT POURS.

**TYPICAL WALL CONCRETE CONSTRUCTION JOINT DETAIL**  
SCALE: 1"=1'-0"



**ROGER WHEELER STATE BEACH BOARDWALK**

NARRAGANSETT, RHODE ISLAND

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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MISCELLANEOUS DETAILS 1

SHEET NO.: **10.3**



SCALE ADJUSTMENT GUIDE  
0" 1"  
BAR IS ONE INCH ON ORIGINAL DRAWING

ROGER WHEELER STATE BEACH  
BOARDWALK

NARRAGANSETT, RHODE ISLAND

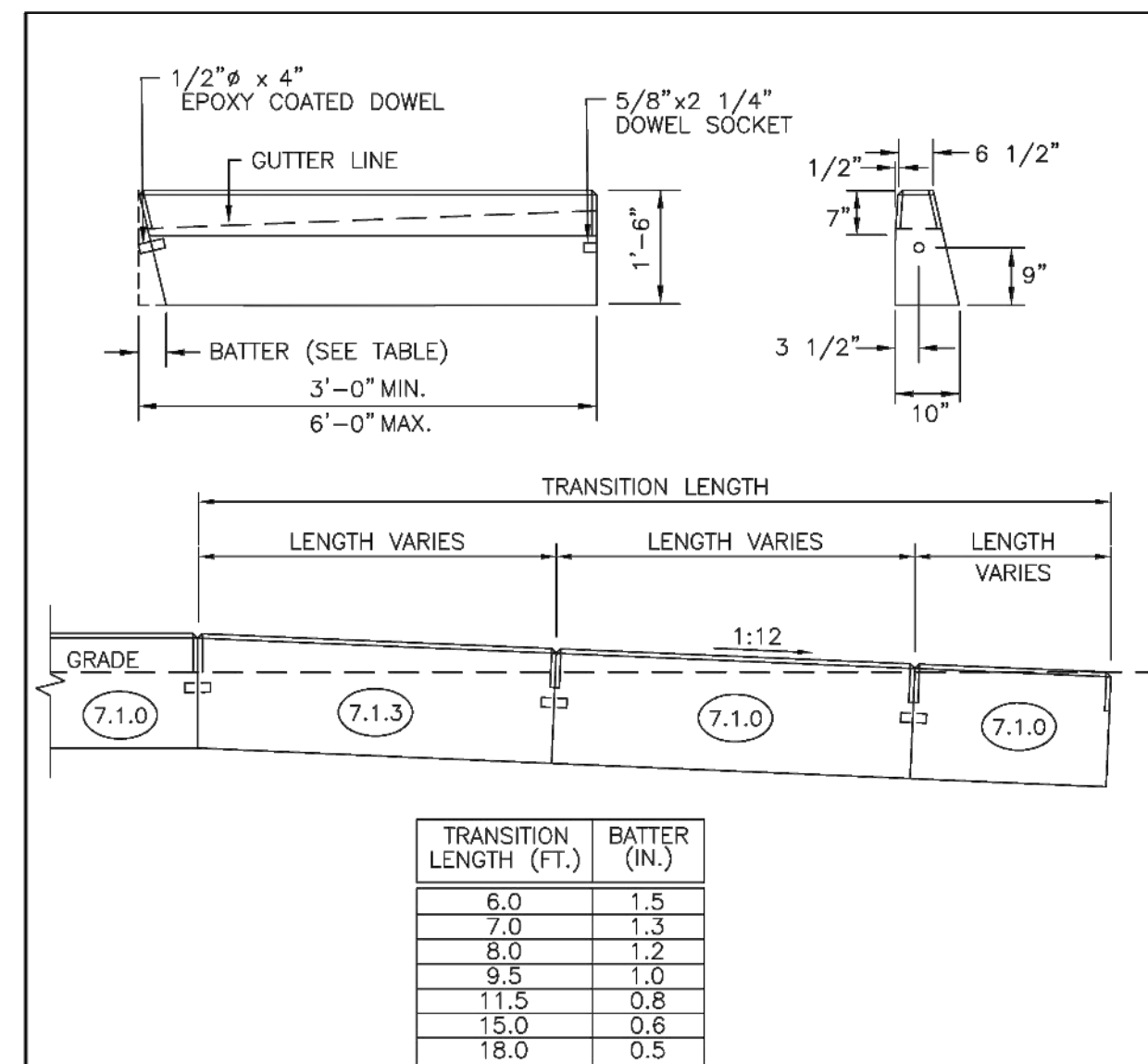
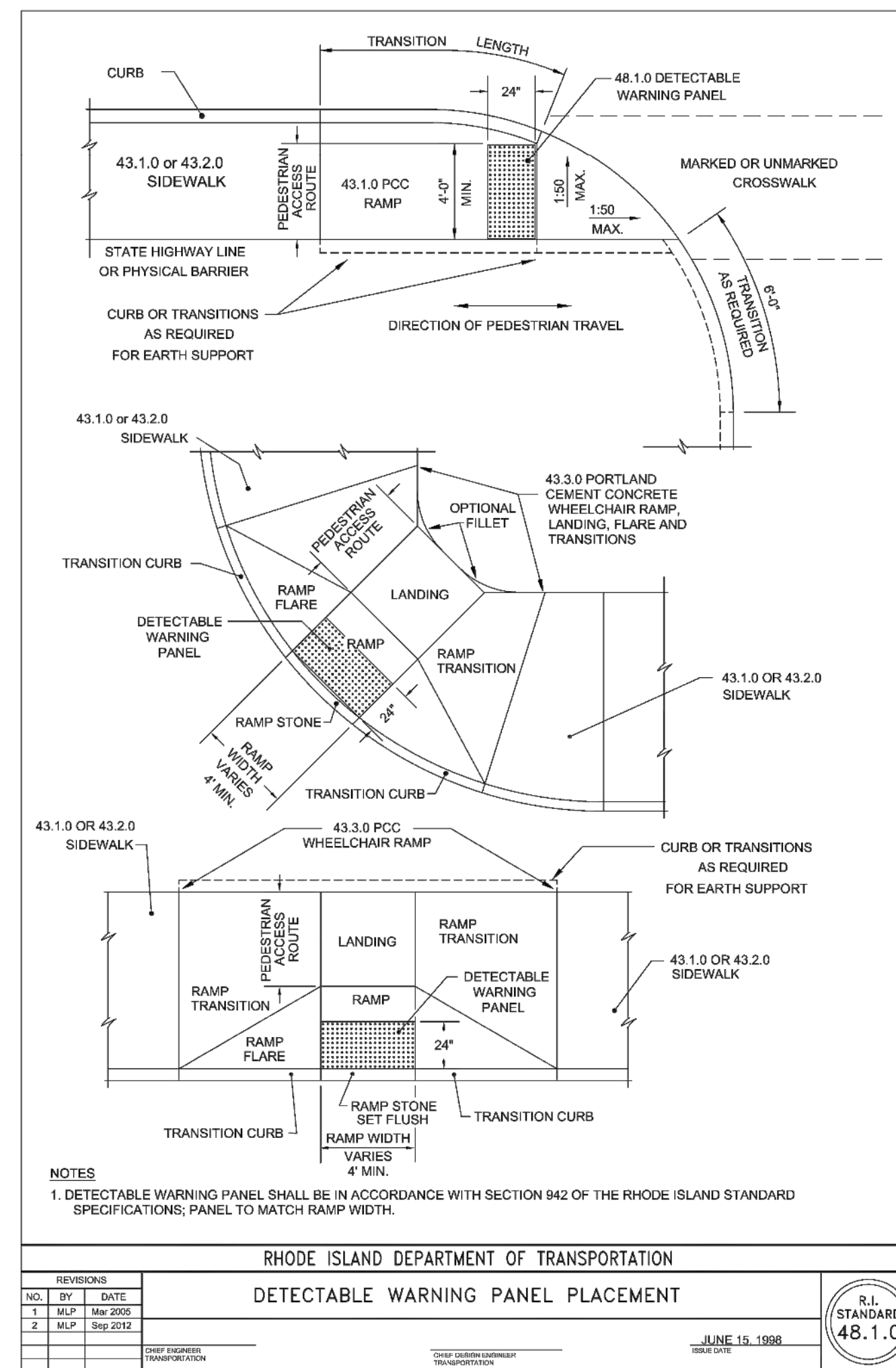
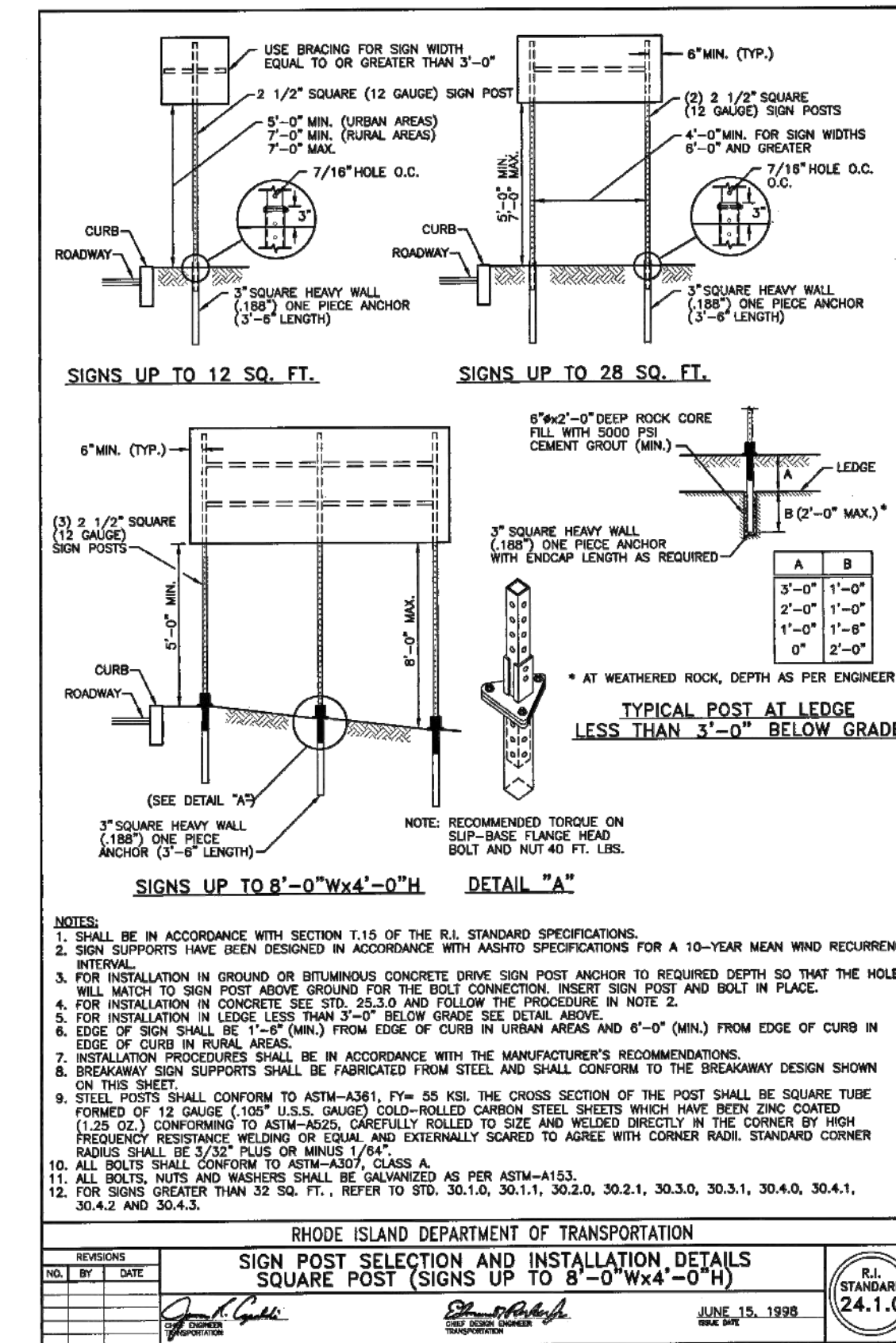
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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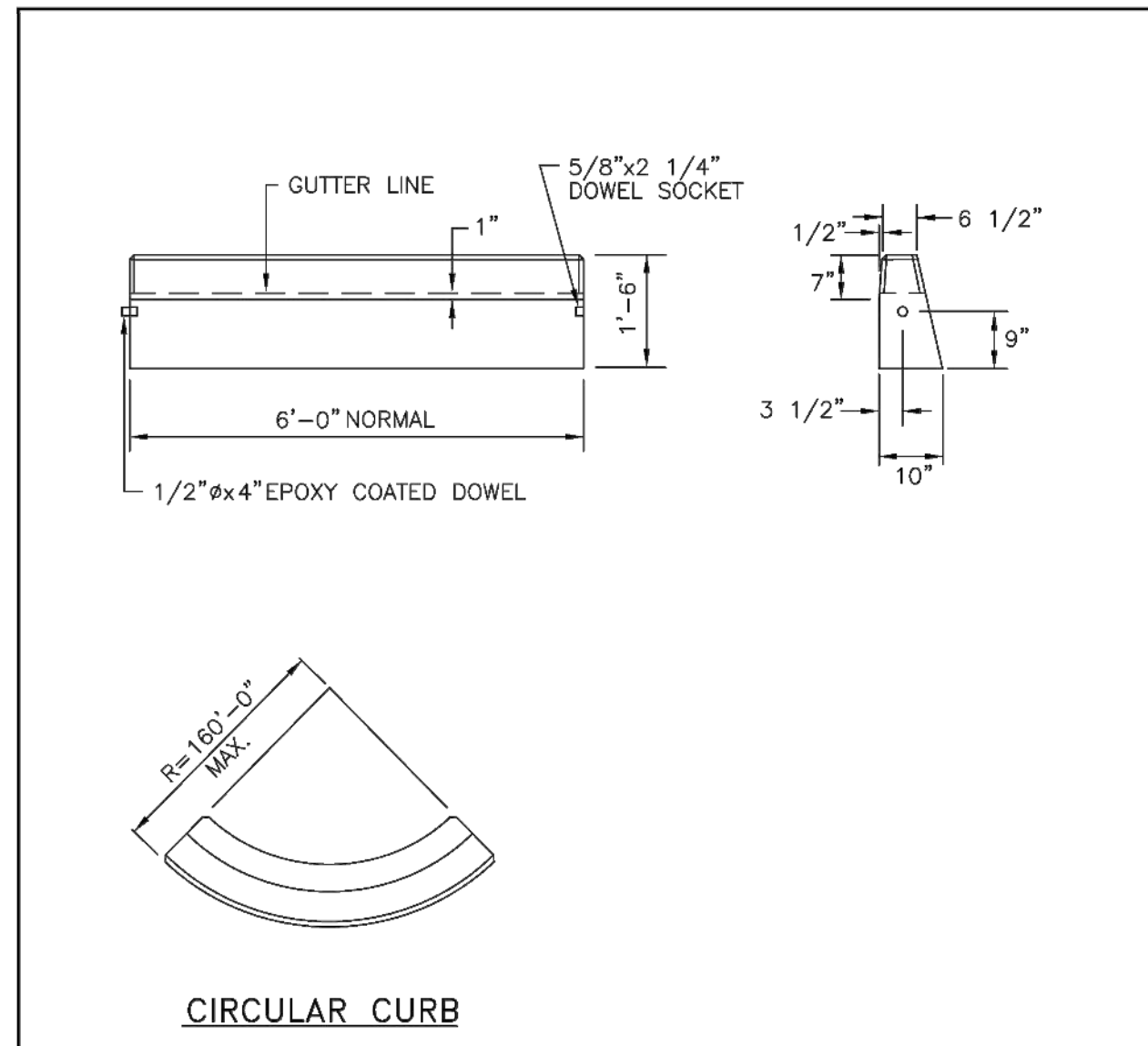
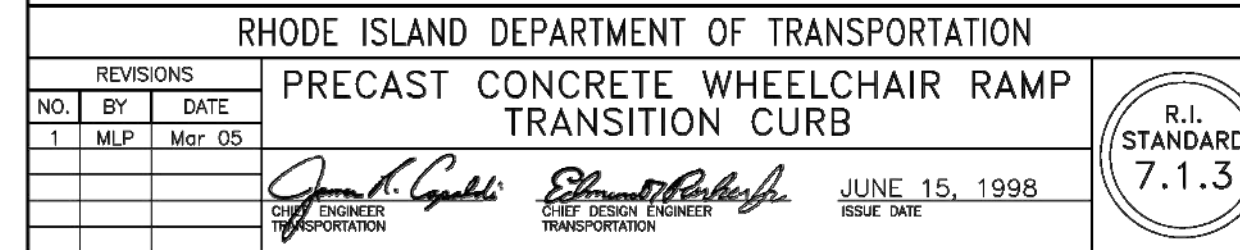
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DRAWN BY: LMC  
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MISCELLANEOUS DETAILS 2

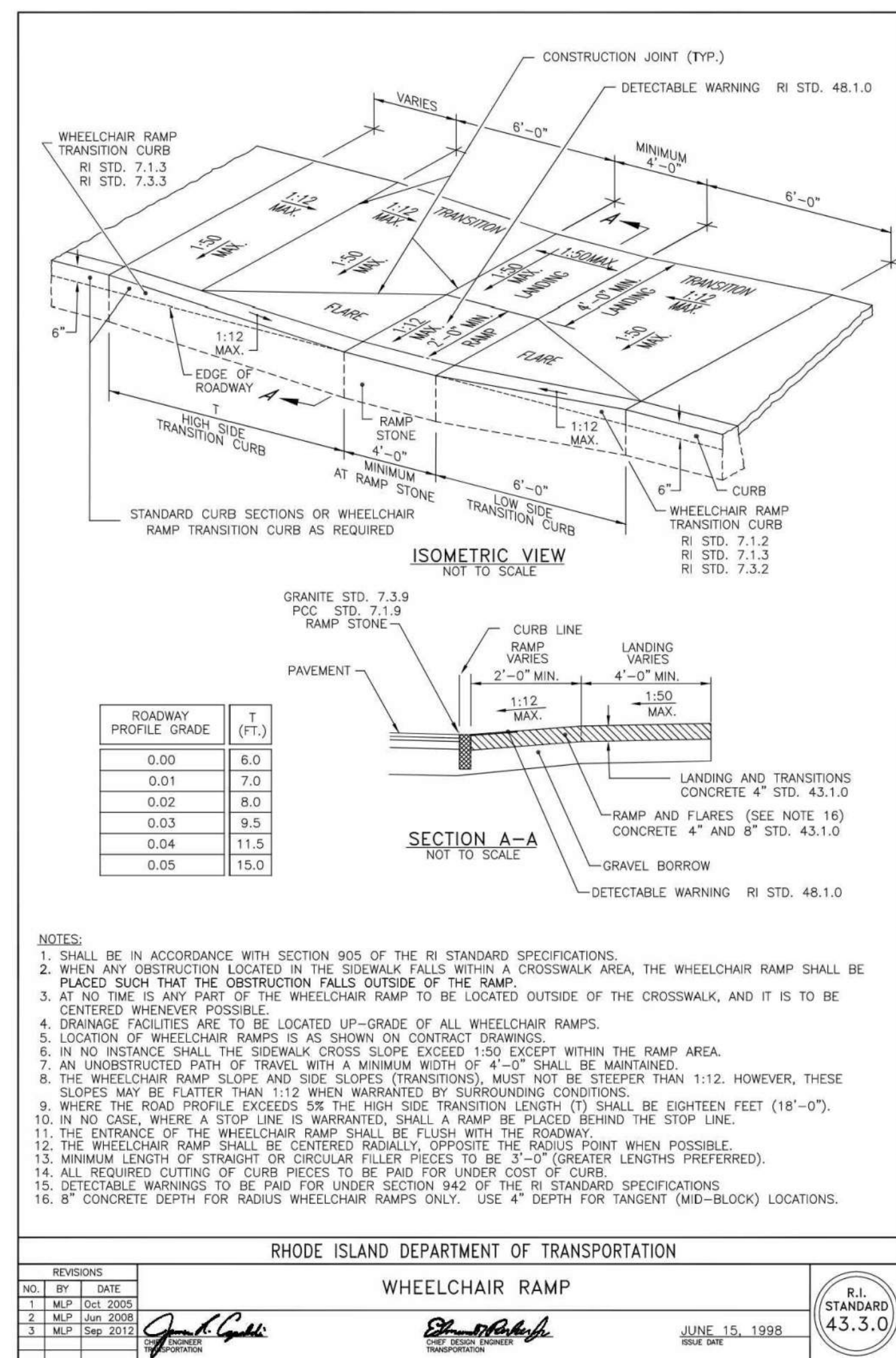
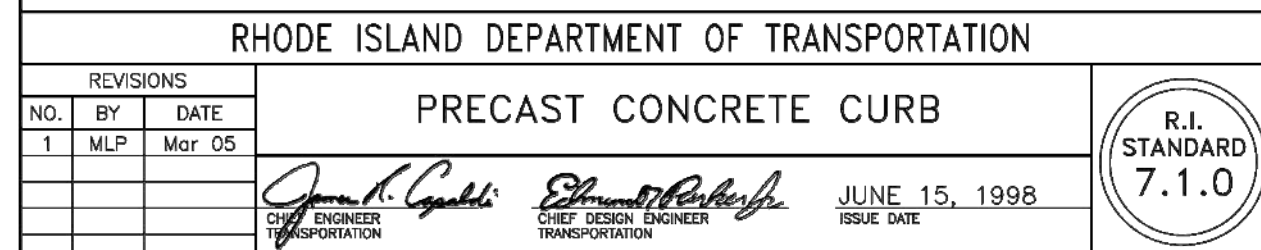
SHEET NO.: 10.4



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
  - CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
  - EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
  - EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
  - MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
  - MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
  - EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
  - CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.
  - EXPOSED EDGES TO HAVE A 3/4" CHAMFER.



- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
  - WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
  - AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
  - DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMP.
  - LOCATION OF WHEELCHAIR RAMP IS AS SHOWN ON CONTRACT DRAWINGS.
  - IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
  - AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
  - THE WHEELCHAIR RAMP AND SIDE SLOPES (TRANSITIONS), MUST NOT BE STEEPER THAN 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
  - WHERE THE ROAD PROFILE EXCEEDS THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
  - IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
  - THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE CENTERED RADIIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
  - THE WHEELCHAIR RAMP SHALL BE CENTERED RADIIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
  - MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
  - ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
  - DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE R.I. STANDARD SPECIFICATIONS.
  - 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMP ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS.


# NOTICE OF IMPROVEMENT PROJECT

**What is happening?**

**Who is doing the work?**

**When will this work take place?**

**Can I access the beach during construction?**



**This project is funded by the RI Capital Fund and the 2021 Green Economy Bond. Contact DEM Division of Planning & Development for more information: DEM.Projects@dem.ri.gov**

**NOTICE OF IMPROVEMENT SIGNAGE**  
FOR INFORMATIONAL PURPOSES ONLY. OWNER TO DETERMINE WORDING

**NOTES**

- CONTRACTOR TO SUBMIT SIGNAGE TEXT TO OWNER FOR REVIEW

BID DOCUMENTS  
NOT FOR CONSTRUCTION

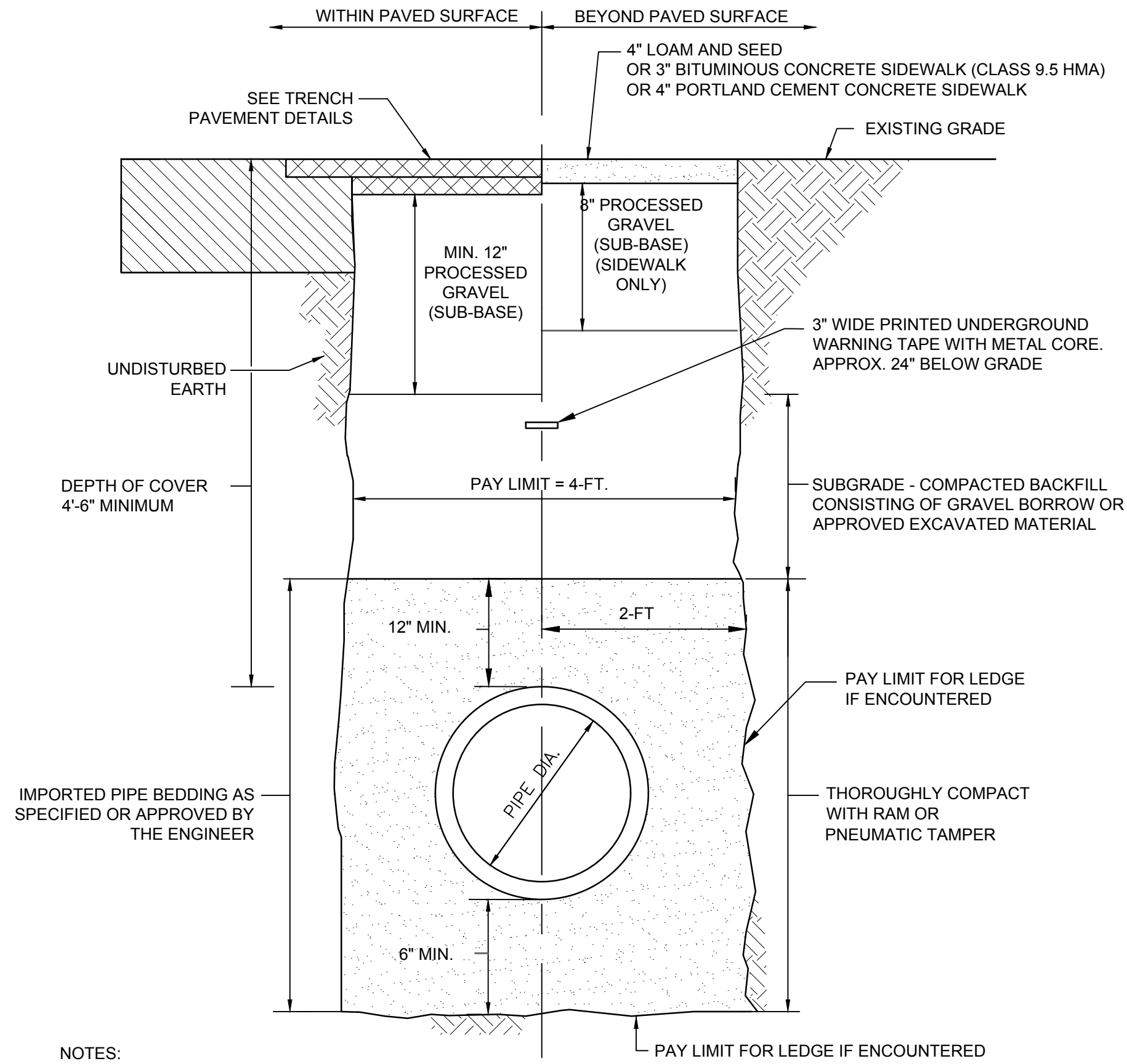


**SPECIFICATION OF WATER MAIN, VALVES AND APPURTENANCES**

- GENERAL: ALL MATERIALS SHALL BE NEW, UNUSED, AND PURCHASED SPECIFICALLY FOR THIS PROJECT. ALL WATER MAIN, VALVES, AND APPURTENANCES SHALL BE MADE IN THE UNITED STATES OF AMERICA AND SHALL BE PROVIDED WITH DOCUMENTATION INDICATING THE LOCATION OF FOUNDRY AND/OR PLACE OF ORIGIN, UNLESS OTHERWISE APPROVED. ALL HARDWARE FOR WATER MAIN PIPING, VALVES, AND APPURTENANCES SHALL BE STAINLESS STEEL FOR CORROSION RESISTANCE.
- WATER MAIN: C909 PVC PIPE SHALL BE PRESSURE CLASS 235 WITH CAST IRON PIPE EQUIVALENT OUTSIDE DIAMETER, AND SHALL CONFORM TO AWWA C909, LATEST REVISION, AND SHALL HAVE INTEGRAL ELASTOMERIC GASKET BELL AND SPIGOT ENDS MEETING THE REQUIREMENTS OF ASTM D2122. ONE GASKET SHALL BE FURNISHED WITH EACH BELL END OF EVERY PIPE. ELASTOMERIC GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477 FOR HIGH-HEAD (50FT OF HEAD OR HIGHER) APPLICATIONS.
- ALL BURIED PVC PIPE SHALL BE INSTALLED WITH TRACER WIRE. TRACER WIRE SHALL BE CONTINUOUS AWG NO. 12 GAUGE SOLID COPPER TRACER WIRE WITH 30 MIL THICK BLUE HDPE INSULATION. THE TRACER WIRE SHALL BE TERMINATED AT EACH END WITH A SNAKEPIT ROADWAY ACCESS POINT WITH A BLUE TWO-TERMINAL SWITCHABLE LID AS MANUFACTURED BY COPPERHEAD INDUSTRIES OR APPROVED EQUAL.
- MECHANICAL JOINT RESTRAINTS USED FOR PVC PIPE SHALL HAVE A GLAND BODY, WEDGE INSERTS, BREAK-OFF TOP ACTUATING BOLTS AND MACHINE-SERRATED CLAMPING RING MANUFACTURED OF HIGH STRENGTH DUCTILE IRON IN ACCORDANCE WITH ASTM A536, GRADE 65-45-12. SIDE CLAMPING BOLTS AND HEX NUTS SHALL BE MANUFACTURED OF HIGH STRENGTH STEEL IN ACCORDANCE WITH ASTM A449 AND ZINC-PLATED TO ASTM B663, TYPE III MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.
- FITTINGS: FITTINGS SHALL BE DUCTILE IRON WITH A PRESSURE RATING OF NOT LESS THAN 350 PSI. FITTINGS SHALL CONFORM TO AWWA C153, LATEST REVISION. ALL D.I. FITTINGS SHALL HAVE A DOUBLE CEMENT LINING NOT LESS THAN 3/8" THICK FOR 3-12" PIPE, AND SHALL BE MECHANICALLY RESTRAINED.
- GATE VALVES: RESILIENT SEATED GATE VALVES SHALL BE DUCTILE IRON-BODY, BRONZE MOUNTED, NON-RISING STEM CONFORMING TO AWWA C-509 AND C-515, LATEST REVISION. GATE VALVES SHALL BE MECHANICAL JOINT AND SHALL OPEN RIGHT. ALL GATE VALVE HARDWARE SHALL BE STAINLESS STEEL FOR CORROSION RESISTANCE. GATE VALVES SIZED 3" TO 12" SHALL BE SUITABLE FOR 250 PSI MAXIMUM WORKING PRESSURE AND 400 PSI TEST PRESSURE. ALL GATE VALVES SHALL BE MECHANICALLY RESTRAINED. SHOP DRAWINGS SHALL INDICATE THE NUMBER OF TURNS TO OPEN.
- VALVE BOXES & COVERS: VALVE BOXES SHALL BE CAST IRON, TWO-PIECE, ADJUSTABLE STYLE, SLIP TYPE WITH INSIDE DIAMETER OF 5-1/4". COVERS SHALL BE CAST IRON, 5-1/4" WITH WORD "WATER" INSCRIBED.
- HYDRANTS: HYDRANTS SHALL COMPLY IN ALL RESPECTS TO AWWA C-502. HYDRANTS SHALL OPEN TO THE RIGHT (CLOCKWISE) AND HAVE A DIRECTION TO OPEN ARROW WITH THE WORD "OPEN" IMPRINTED ON THE HYDRANT. FOR PURPOSES OF STANDARDIZATION HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 OR APPROVED EQUIVALENT. HYDRANTS SHALL RECEIVE TWO (2) COATS OF FACTORY APPLIED YELLOW EPOXY PAINT. ADDITIONALLY, THE CONTRACTOR SHALL APPLY ONE COAT IN THE FIELD AFTER INSTALLATION.

**WATER MAIN INSTALLATION NOTES**

- GENERAL: CONTRACTOR IS REQUIRED TO PROVIDE UNINTERRUPTED WATER SERVICE DURING CONSTRUCTION. IF A WATER SHUTDOWN IS REQUIRED, THE SHUTDOWN SHALL BE NO LONGER THAN 8 HOURS AND SHALL BE COORDINATED WITH THE TOWN OF NARRAGANSETT'S WATER DIVISION NO LESS THAN 72 HOURS IN ADVANCE. IF THE CONTRACTOR OPTS TO WORK OUTSIDE OF THE TOWN OF NARRAGANSETT'S WATER DIVISION CONSTRUCTION SHUTDOWN CONSTRAINTS, THE CONTRACTOR MUST USE BYPASS PIPING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, DISINFECTION, TESTING, MAINTENANCE, AND BREAK DOWN TO MAINTAIN WATER SERVICE TO CUSTOMERS AS NEEDED DURING CONSTRUCTION, START-UP, AND TESTING. THE CONTRACTOR SHALL WORK WITH THE LOCAL FIRE DEPARTMENT FOR THE USE OF TEMPORARY HYDRANTS. A TESTABLE BACKFLOW PREVENTER SHALL BE PROVIDED BY CONTRACTOR ON ALL BYPASS PIPING. THE CONTRACTOR SHALL SUBMIT BYPASS PIPING PLANS, AS NECESSARY, TO THE ENGINEER FOR APPROVAL.
- INSTALLATION: WATER MAIN SHALL BE INSTALLED WITH A MINIMUM 4'-6" OF COVER UNLESS OTHERWISE NOTED ON THE DRAWINGS. PIPE SHALL BE INSULATED WITH APPROVED MATERIAL WHERE 4'-6" OF COVER IS NOT PROVIDED. PIPE SHALL BE LAID ON COMPACTED GRAVEL BORROW BEDDING AND COVERED WITH GRAVEL BORROW BEDDING MATERIAL AS INDICATED IN THE CONTRACT SPECIFICATIONS AND DRAWINGS.
- BACKFILL: BACKFILL OF EXCAVATION SHALL BE PERFORMED WITH SUITABLE MATERIAL OR REFILLS FROM SITE EXCAVATION WITH NO PARTICLE LARGER THAN 3 INCHES, AND COMPACTED IN ACCORDANCE WITH AASHTO T 180 METHOD D TO A MINIMUM DRY DENSITY OF 95% IN 6-INCH LIFTS. UNSUITABLE MATERIALS (I.E., PEAT, CLAY, ORGANIC MATTER, DEBRIS) SHALL BE REMOVED OFF SITE FOR DISPOSAL AT NO ADDITIONAL COST TO THE OWNER.
- ALIGNMENT: ALIGNMENT OF WATER MAIN IS DIAGRAMMATIC ONLY AND DOES NOT REFLECT ALL BENDS, FITTINGS, AND APPURTENANCES THAT MAY BE REQUIRED FOR PROPER INSTALLATION. AT ALL DRAIN CROSSINGS, WATER MAIN SHALL BE INSTALLED UNDER THE EXISTING DRAIN CONDUIT WITH A MINIMUM OF 1 FOOT CLEARANCE BETWEEN BOTH PIPES. WHERE WATER MAIN IS CUT AND NOT REMOVED, THE CONTRACTOR SHALL INSTALL A MECHANICAL JOINT CAP.
- FLUSHING & DISINFECTION: ALL NEW WATER MAIN SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH AWWA C651, LATEST REVISION AND SHALL BE SUBJECT TO THE STANDARDS OF THE TOWN OF NARRAGANSETT'S WATER DIVISION. FLUSHING AND DISINFECTION SHALL BE PERFORMED IN THE PRESENCE OF ENGINEER AND THE TOWN OF NARRAGANSETT'S WATER DIVISION. FORM OF CHLORINE USED FOR DISINFECTION SHALL BE APPROVED BY ENGINEER.
- TESTING: ALL NEW WATER MAIN SHALL BE SUBJECTED TO PRESSURE AND LEAKAGE TESTING PER AWWA C600, LATEST REVISION AND SHALL BE SUBJECT TO THE STANDARDS OF THE TOWN OF NARRAGANSETT'S WATER DIVISION. PRESSURE TEST SHALL BE 1.5 TIMES THE NORMAL PRESSURE, BUT NO LESS THAN 150 PSI FOR 2 HOURS.

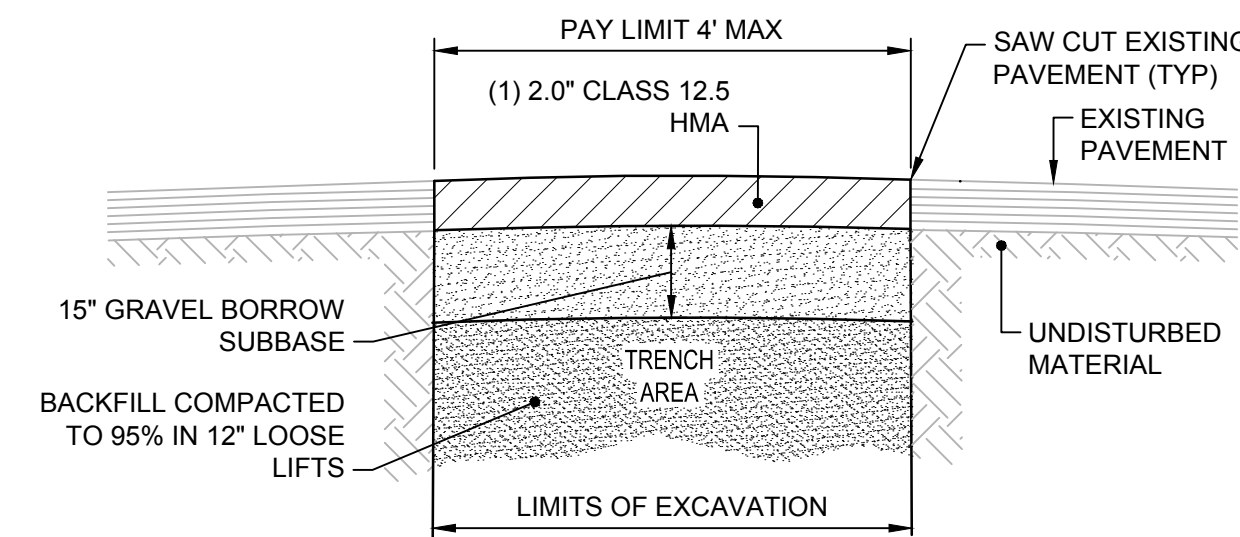


NOTES:

- PAVEMENT INSTALLED BEYOND PAYMENT LINE MUST BE PRE-APPROVED BY THE ENGINEER.
- THE FINISHED SURFACE OF THE PAVEMENT, AFTER COMPACTION, SHALL BE TRUE TO THE ESTABLISHED LINE AND GRADE OF THE EXISTING PAVEMENT.
- CONTRACTOR SHALL RESET ALL STRUCTURES PRIOR TO PAVING. STRUCTURES SHALL MATCH FINAL GRADE.

**TYPICAL TRENCH DETAIL**

NOT TO SCALE

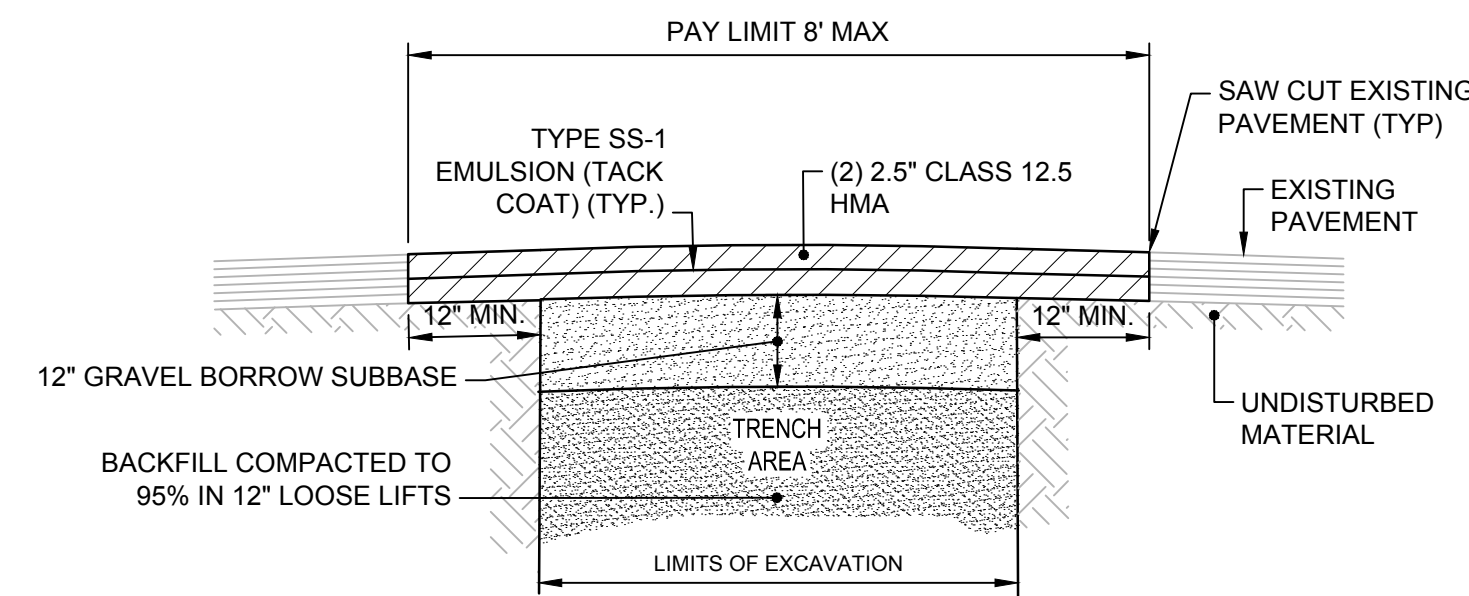


NOTES:

- RATE OF SLOPE TO MATCH EXISTING TOWARDS EDGE OF PAVEMENT.
- ONE 2.0" LIFT OF CLASS 12.5 HMA TO BE INSTALLED AT THE END OF EACH DAY OR TRENCH SHALL BE PLATED IN ACCORDANCE WITH RIDOT STANDARDS.
- THE TEMPORARY TRENCH PATCH SHALL REMAIN IN PLACE FOR 45-90 CALENDAR DAYS PRIOR TO FULL-DEPTH TRENCH PATCHING.

**TEMPORARY TRENCH PAVEMENT DETAIL**

NOT TO SCALE



NOTES:

- RATE OF SLOPE TO MATCH EXISTING TOWARDS EDGE OF PAVEMENT.
- PAVEMENT THICKNESS TO MATCH EXISTING CONDITIONS.

**FULL DEPTH TRENCH PAVEMENT DETAIL**

NOT TO SCALE

**REVISIONS:**

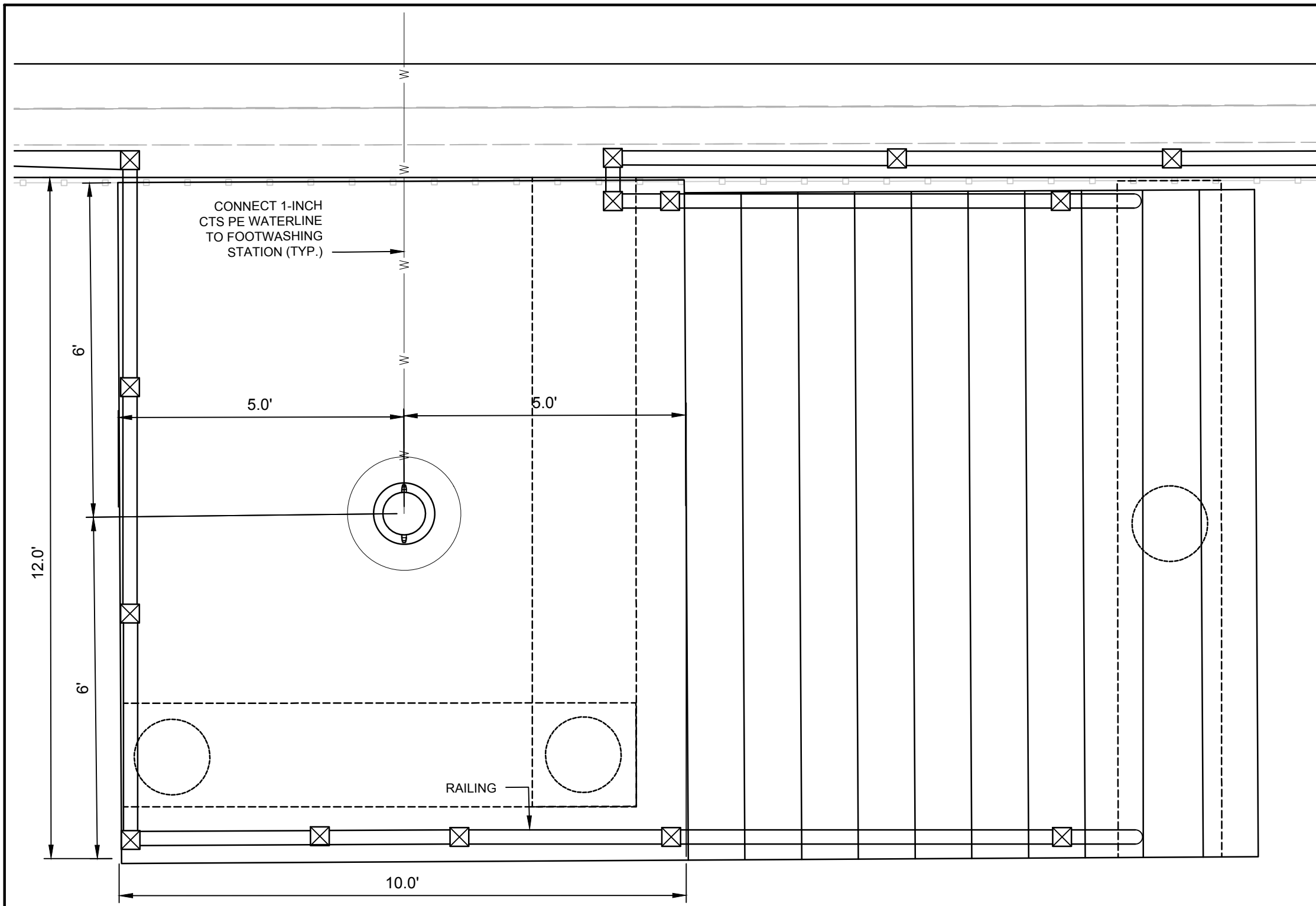
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MISCELLANEOUS  
UTILITY NOTES &  
DETAILS 1

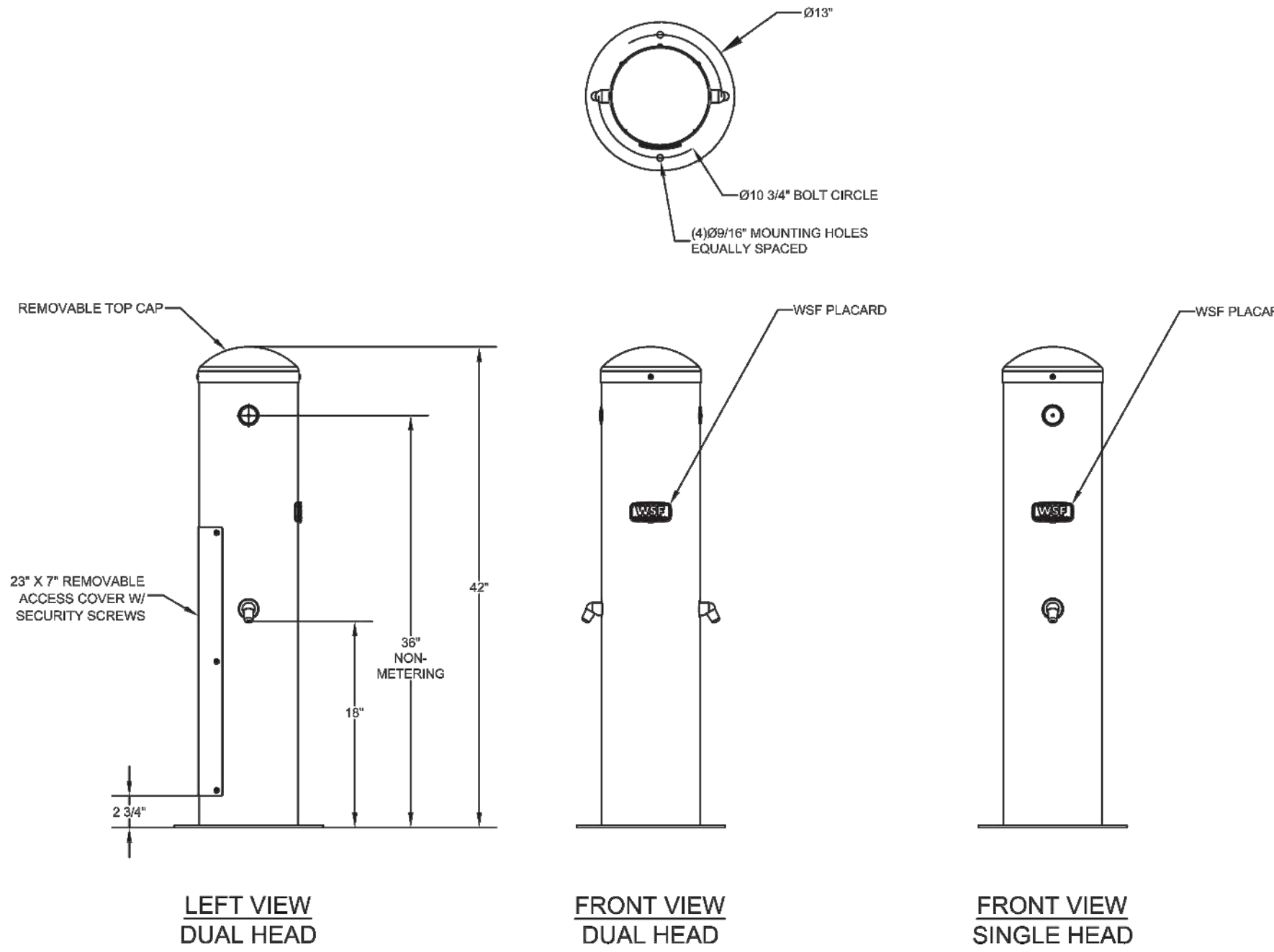
SHEET NO.:

**10.5**



**FOOT WASHING STATION PLAN**

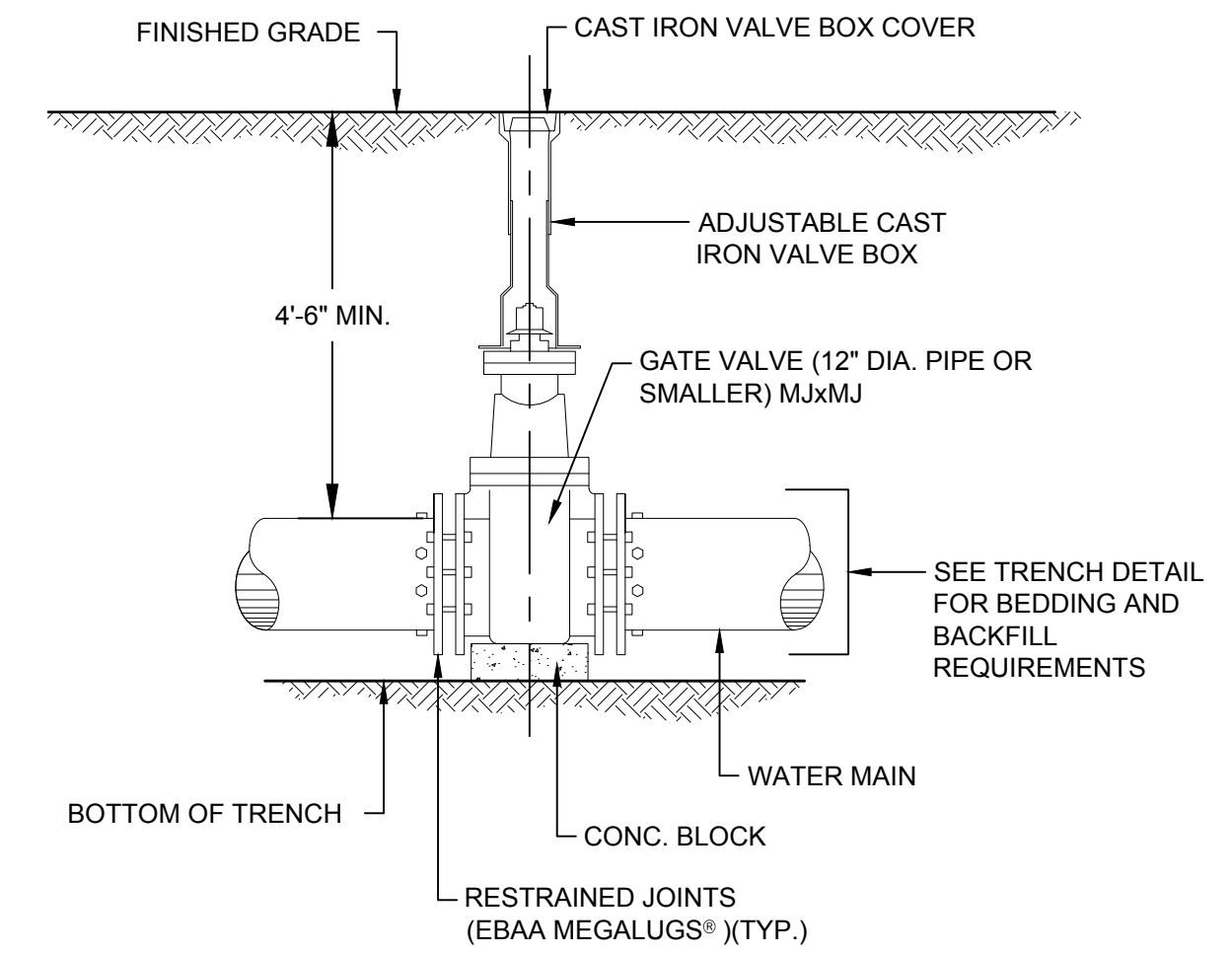
SCALE: 1"=2'



**FOOT WASHING CONNECTION DETAIL**

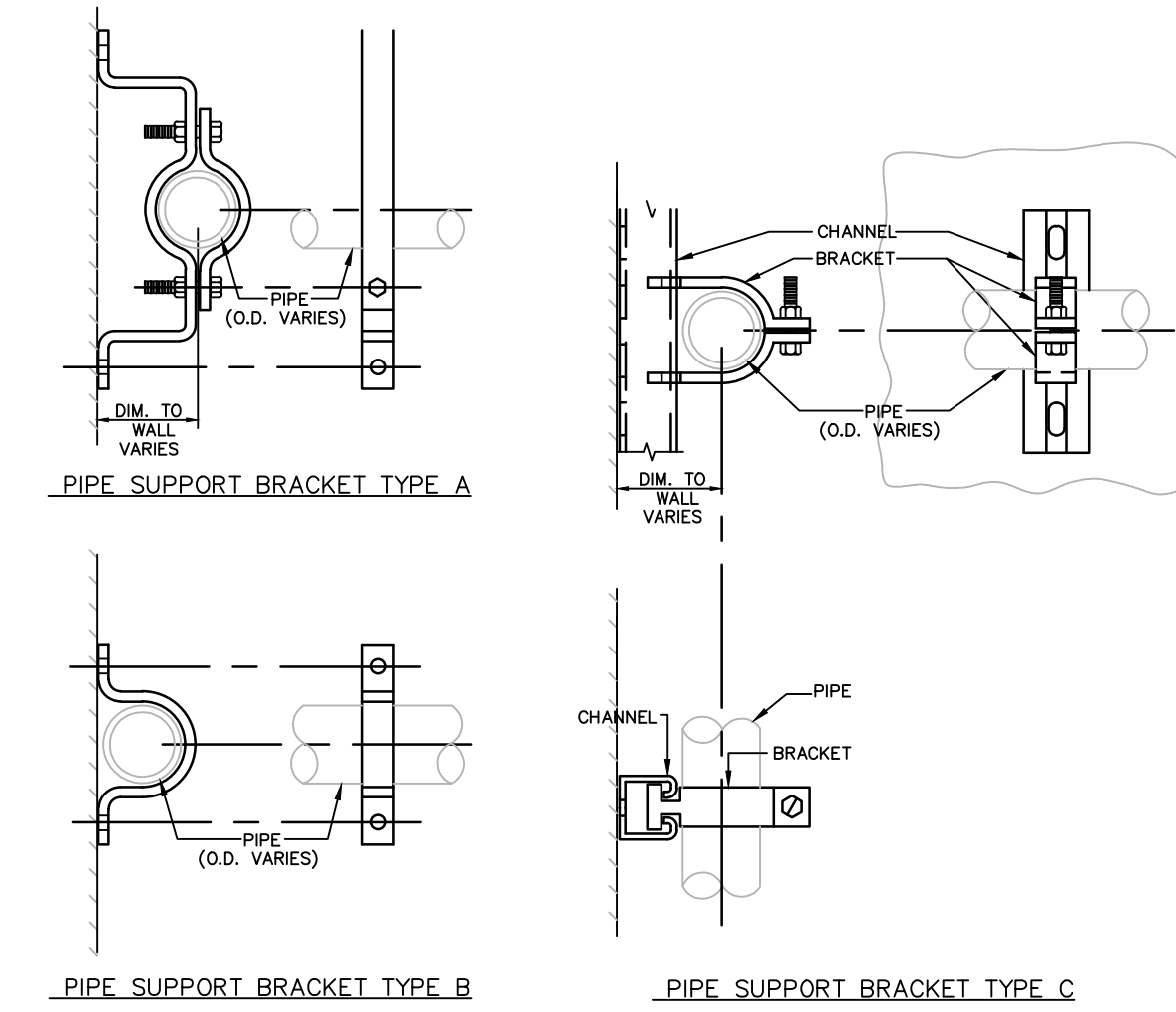
NOT TO SCALE

- NOTE:**
1. FOOT WASH STATION SHALL BE WILLOUGHBY WODS SERIES STAINLESS STEEL OUTDOOR FOOT SHOWER OR PRE-APPROVED EQUIVALENT.



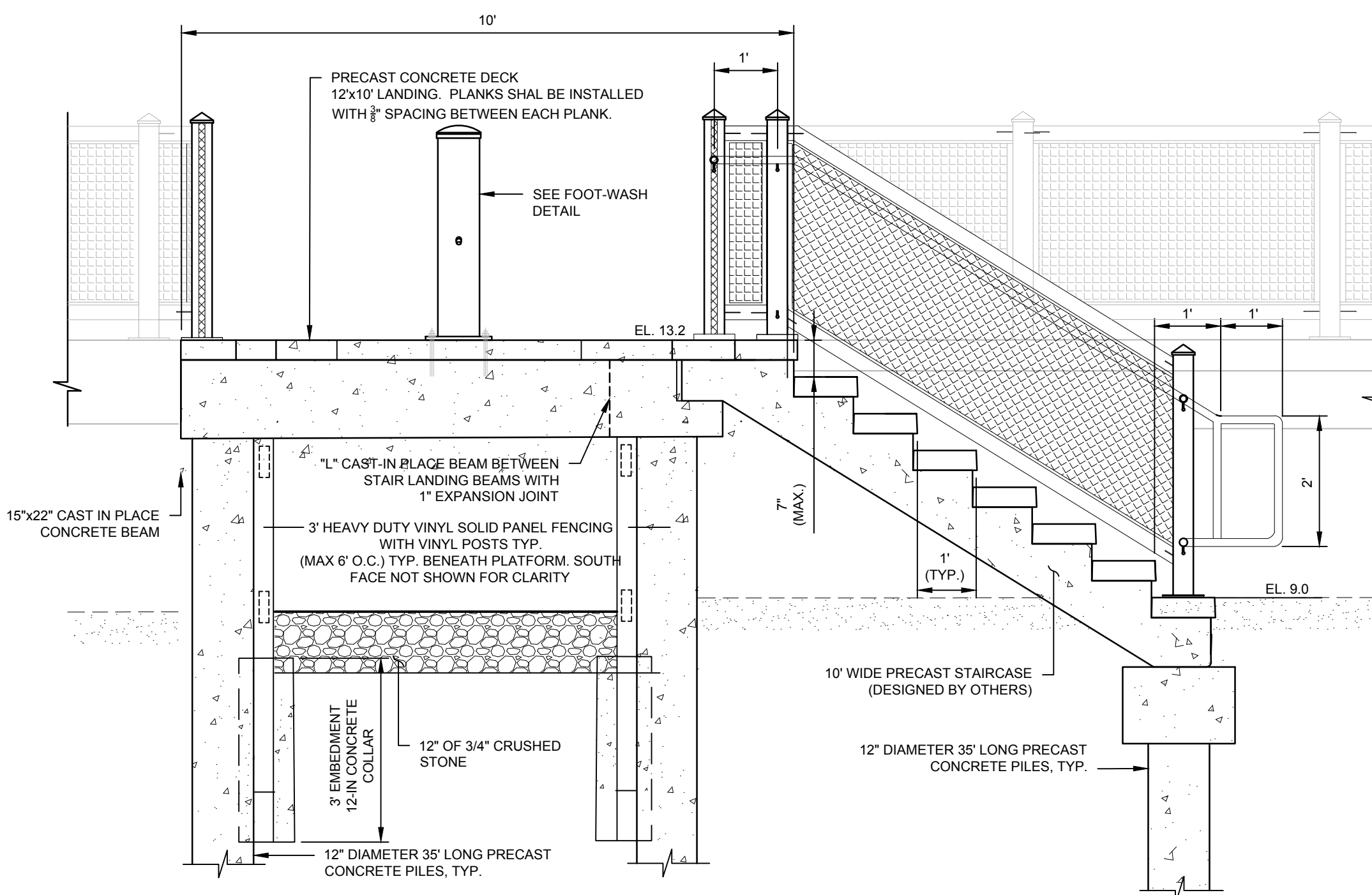
**VALVE BOX DETAIL**

NOT TO SCALE



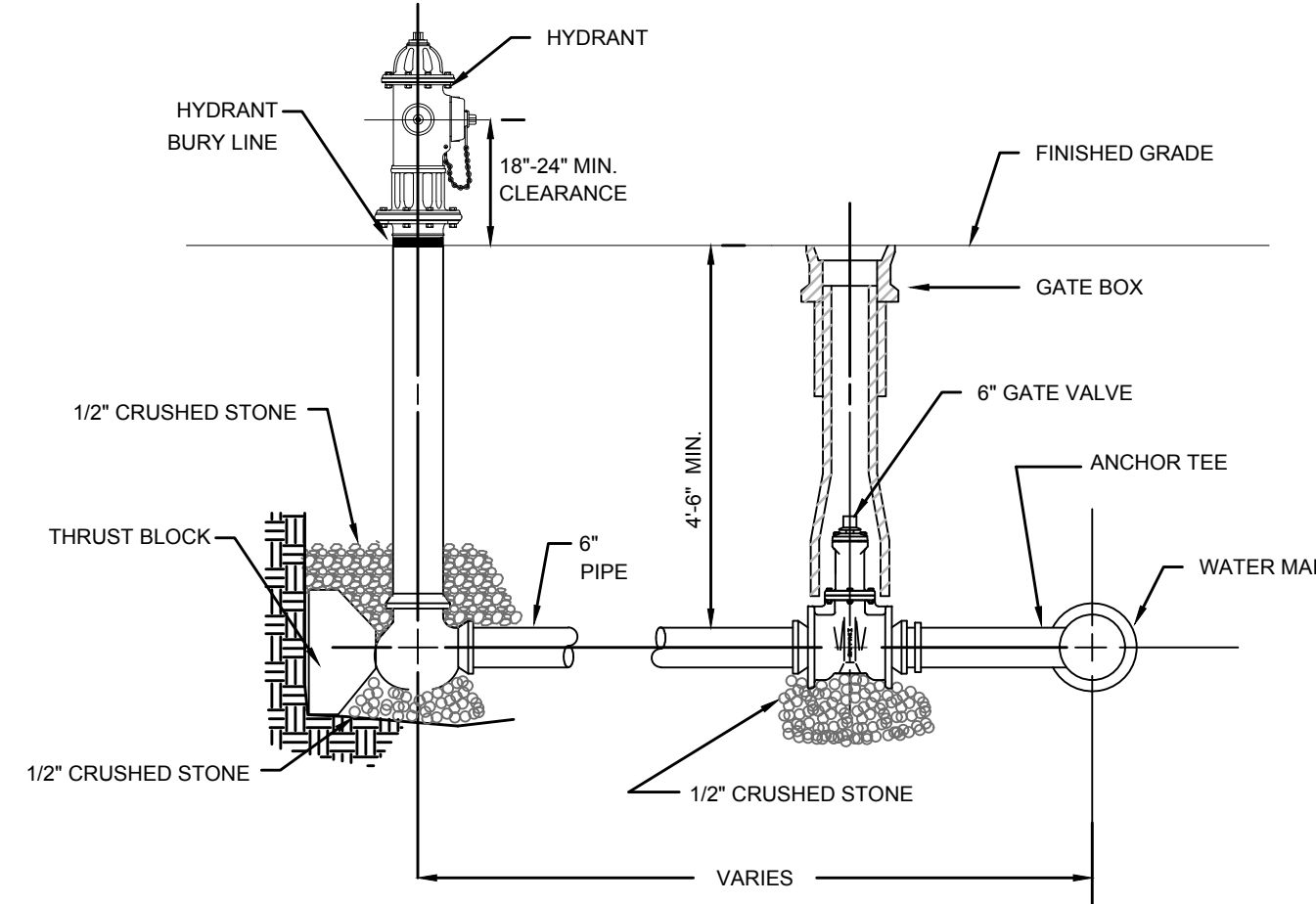
**NOTES**

1. CONTRACTOR SHALL SUBMIT HANGER DETAIL FOR APPROVAL PRIOR TO INSTALLATION.



**FOOT WASHING STATION DETAIL**

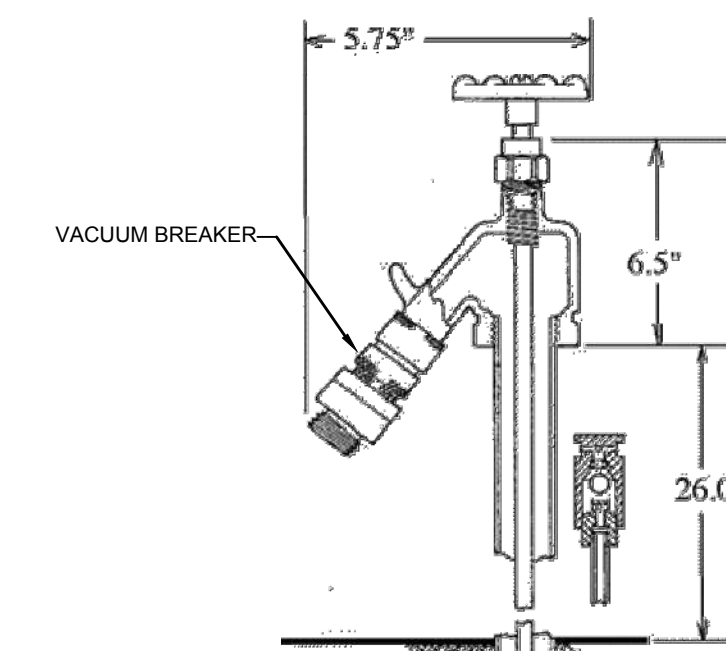
SCALE: 1"=2'-0"



**HYDRANT ASSEMBLY DETAIL**

NOT TO SCALE

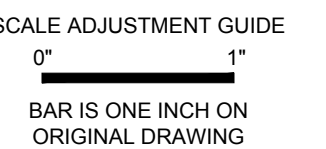
- NOTES:**
1. ALL HYDRANT, VALVE, AND TEE JOINTS TO BE RESTRAINED MECHANICAL JOINTS.
  2. DEPTH OF HYDRANT BURY SHALL SUIT INSTALLED DEPTH OF COVER OVER WATER MAIN. INSTALL RISERS AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
  3. 6\"/>



**WATER SPIGOT DETAIL**

NOT TO SCALE

- NOTE:**
1. HOSE BIB SHALL BE EQUIPPED WITH WATER FAUCET LOCK.
  2. WATER SPIGOT SHALL BE SECURED TO TIMBER SHADE STRUCTURE POST.



**ROGER WHEELER STATE BEACH  
BOARDWALK**

NARRAGANSETT, RHODE ISLAND

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**REVISIONS:**

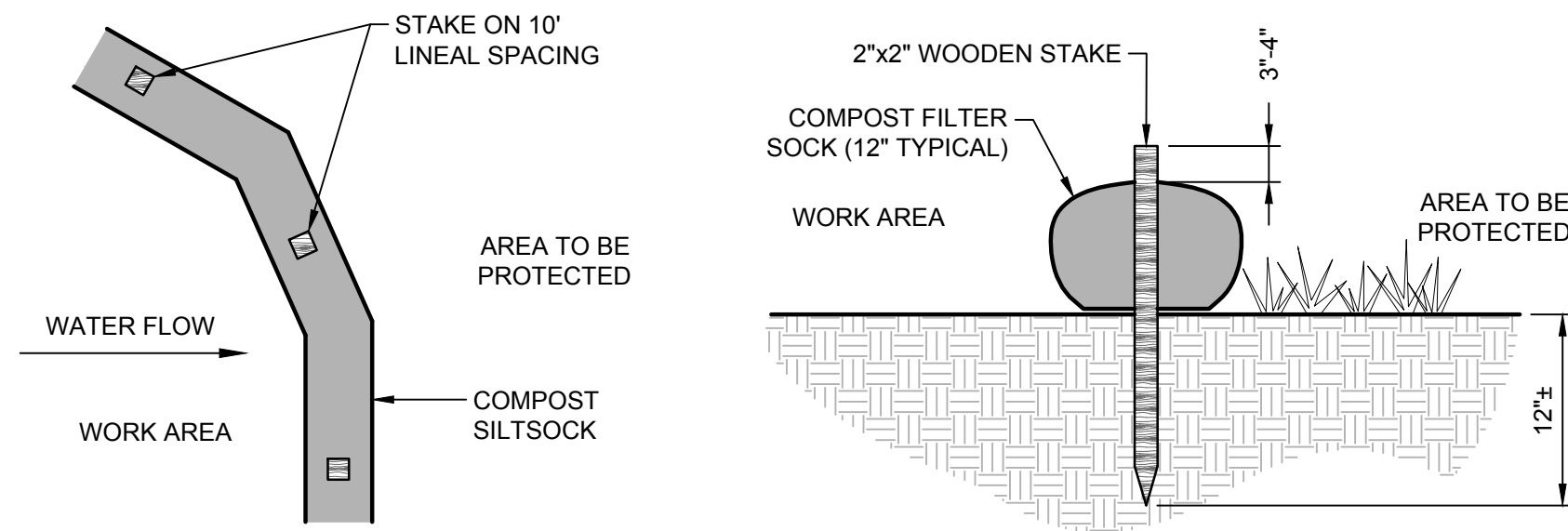
0	IFB	04/09/2024

PROJECT NO.: 19131.00  
 DATE: APRIL 2024  
 SCALE: AS NOTED  
 DESIGNED BY: KAD  
 CHECKED BY: BMD  
 DRAWN BY: LMC  
 APPROVED BY: JMB

MISCELLANEOUS  
 UTILITY NOTES &  
 DETAILS 2

SHEET NO.:

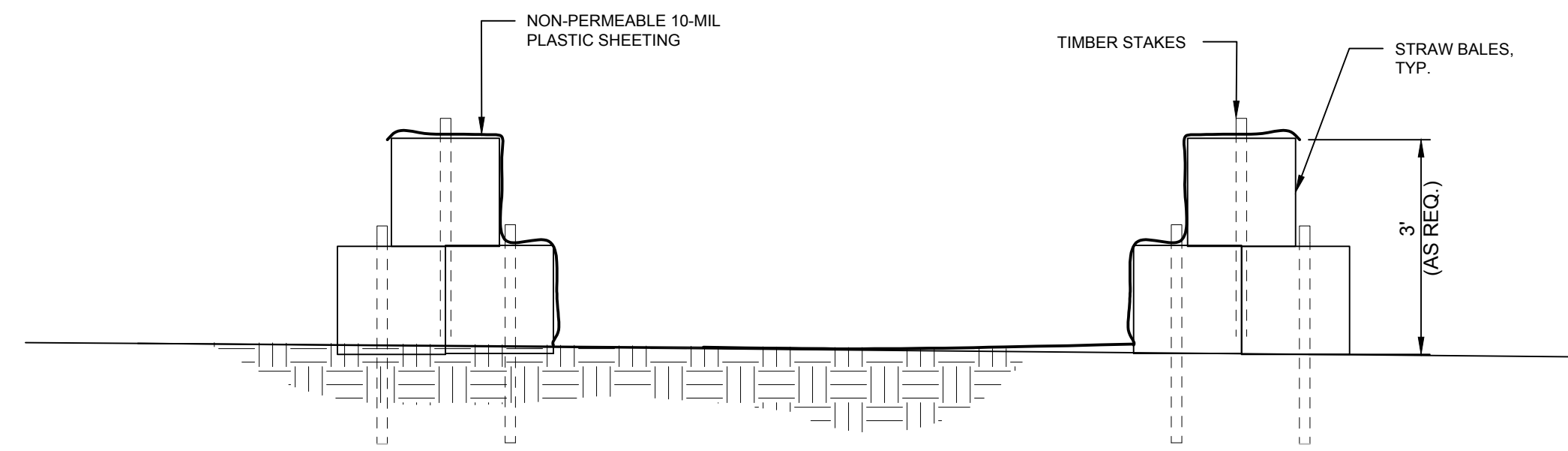
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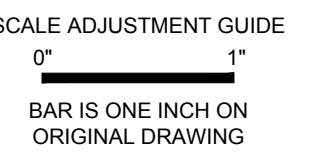
**NOTES:**

1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.

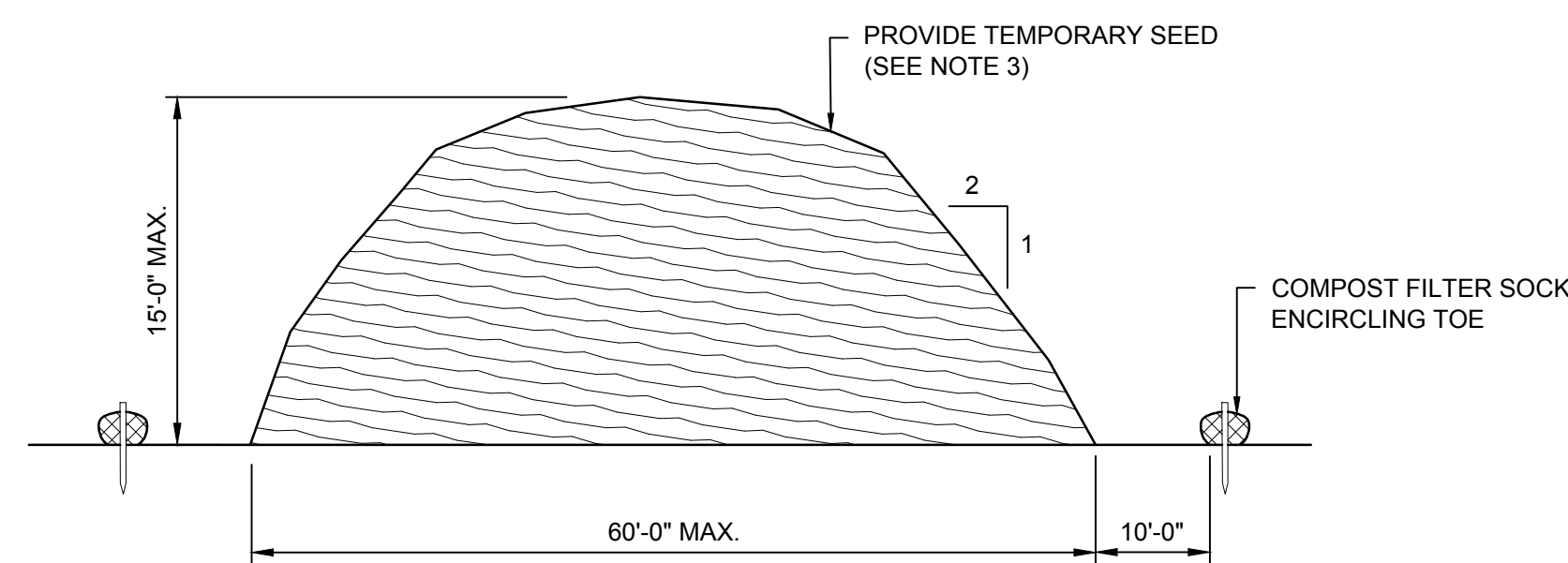
**COMPOST FILTER SOCK DETAIL**  
NOT TO SCALE



**CONCRETE WASHOUT**  
NOT TO SCALE



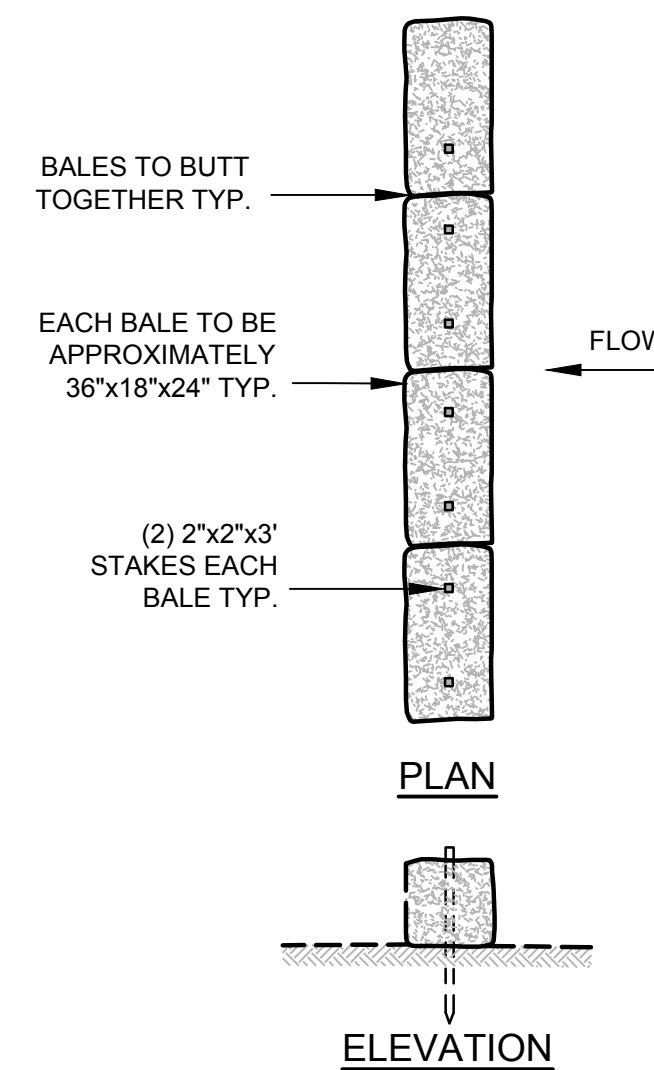
**ROGER WHEELER STATE BEACH  
BOARDWALK**  
NARRAGANSETT, RHODE ISLAND  
RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT



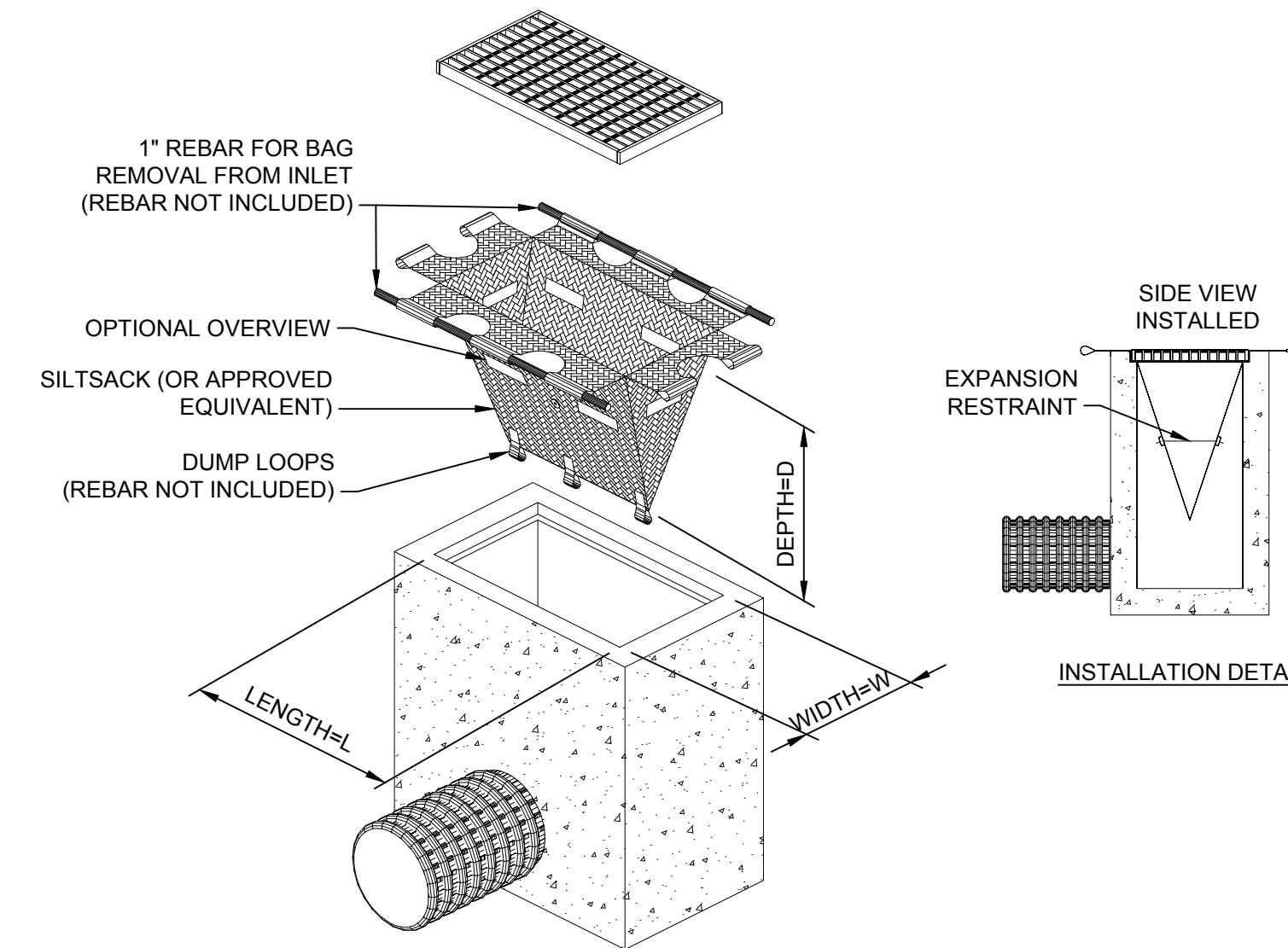
**NOTES:**

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE RIDOT STD. M.18.10.5 SEED MIX. USE MADOT STD. M.6.03.1 EROSION SEED.

**ERODIBLE MATERIAL STOCKPILE**  
NOT TO SCALE



**STRAW BALE DETAIL**  
NOT TO SCALE



**NOTES:**

1. INLET PROTECTION SHALL BE CLEANED OF SILT AND DEBRIS ON A REGULAR BASIS AS REQUIRED BY PROJECT SPECIFIC SWPPP.
2. INSPECTIONS SHALL BE DONE AFTER EACH RAIN EVENT AND AT A MINIMUM EVERY TWO WEEKS AND AS REQUIRED BY PROJECT SPECIFIC SWPPP.

**TIP** **TEMPORARY INLET PROTECTION**  
NOT TO SCALE

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REVISIONS:		
0	IFB	04/09/2024

PROJECT NO.:	19131.00
DATE:	APRIL 2024
SCALE:	AS NOTED
DESIGNED BY:	KAD
CHECKED BY:	BMD
DRAWN BY:	LMC
APPROVED BY:	JMB

EROSION CONTROL  
DETAILS

SHEET NO.: **10.7**