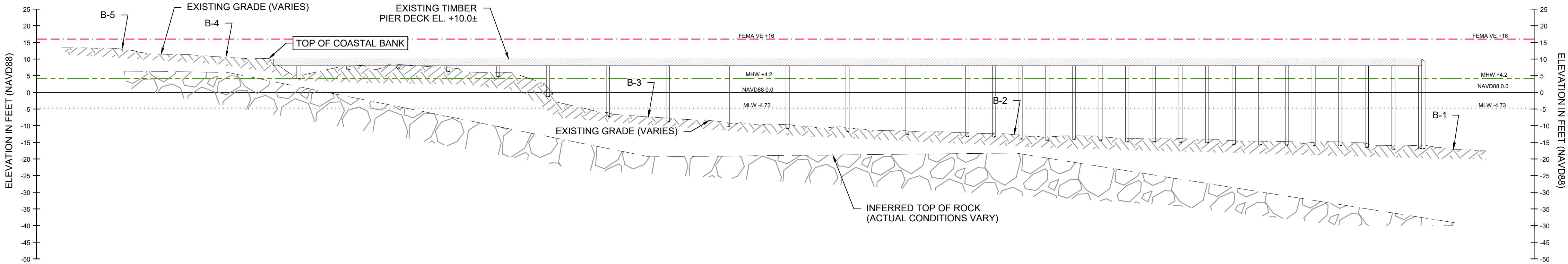


GENERAL NOTES

1. THE BASE MAP, SOIL BORINGS, TOPOGRAPHIC SURVEY, AND HYDROGRAPHIC SURVEY INFORMATION WERE DEVELOPED FROM ELECTRONIC DRAWING FILES BY CLE ENGINEERING, PROVIDED TO GZA BY THE CLIENT, ENTITLED "SALEM WILLOWS PARK HANDICAPPED ACCESSIBLE FISHING PIER," DATED: 9/7/17, ORIGINAL SCALE: 1"=20', CAD FILE: 16262_CONCEPT.DWG.
2. ELEVATIONS ARE IN FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88); MLW=-4.7, NAVD88=0.0, MHW=+4.2, AHTL=+6.6, FEMA 100-YEAR FLOOD ZONE VE=+16.0.
3. LIMITED SUPPLEMENTAL TOPOGRAPHIC SURVEY PERFORMED BY GZA GEOENVIRONMENTAL, INC., ON APRIL 21, 2021 AND MAY 3, 2022 AND REPRESENTS CONDITIONS AT THE TIME OF THE SURVEYS.
4. TOPOGRAPHIC AND HYDROGRAPHIC SURVEY ELEVATIONS AND SOUNDINGS ARE IN FEET AND TENTHS, AND REFER TO THE NAVD88 DATUM.
5. SHELLFISH SUITABILITY AREA, FEMA FLOOD HAZARD, AND TIDELANDS JURISDICTION CH91 LAYERS FROM MASSGIS OLIVER ONLINE MAPPING TOOL, ACCESSED 7/13/2021 TO 7/20/2021.

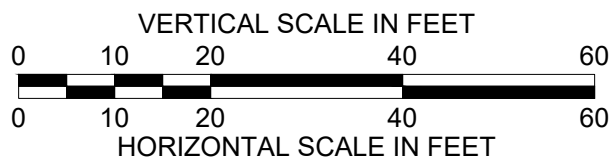
NOTE: DEMOLITION AND REMOVAL OF THE EXISTING (PRIOR) PIER STRUCTURE WAS PERFORMED DURING PHASE 1 IN 2021 - 2022. PHASE 1 DEMOLITION WORK WAS PREVIOUSLY AUTHORIZED BY THE SALEM CONSERVATION COMMISSION UNDER FILE NO. 064-0731.



NOTE: PROFILE SHOWS PRIOR EXISTING PILE SUPPORTS, RAILING, BRACING, AND MISCELLANEOUS FEATURES WHICH HAVE SINCE BEEN REMOVED.

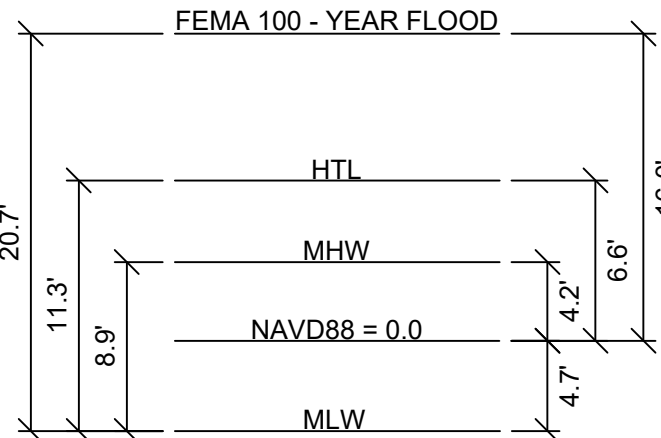
EXISTING PROFILE A-A'

SCALE H: 1" = 20'
V: 1" = 20'



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DATUM RELATIONSHIP

NOT TO SCALE

NO. ISSUE/DESCRIPTION BY DATE

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DMF-21002 RECREATIONAL FISHING PIER
SALEM WILLOWS PARK
SALEM, MASSACHUSETTS

EXISTING SITE PLAN AND PROFILE

PREPARED BY:
GZA GeoEnvironmental, Inc.
888 S. ROONEY FRENCH BLVD.
NEW BEDFORD, MASSACHUSETTS 02740
www.gza.com

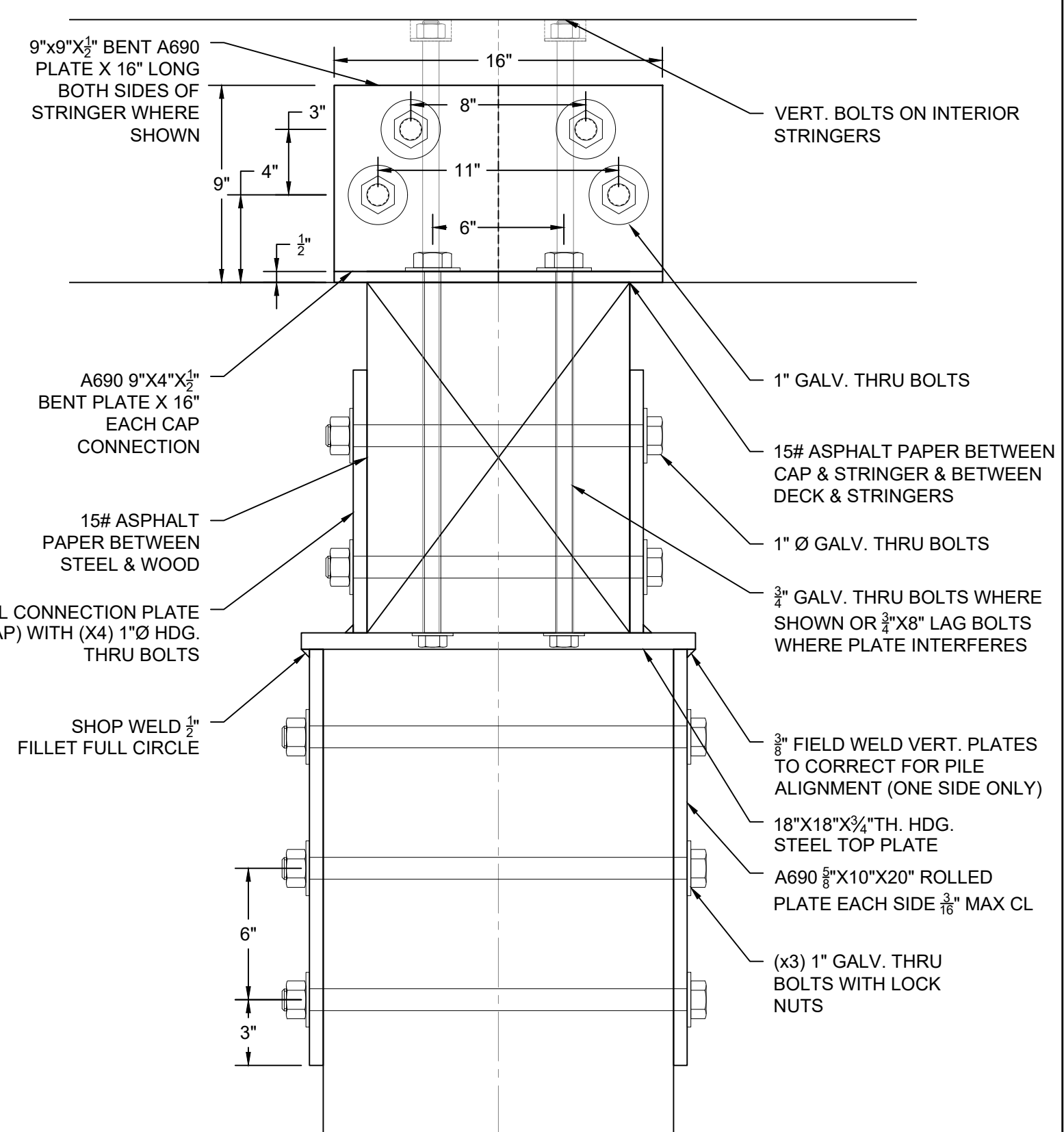
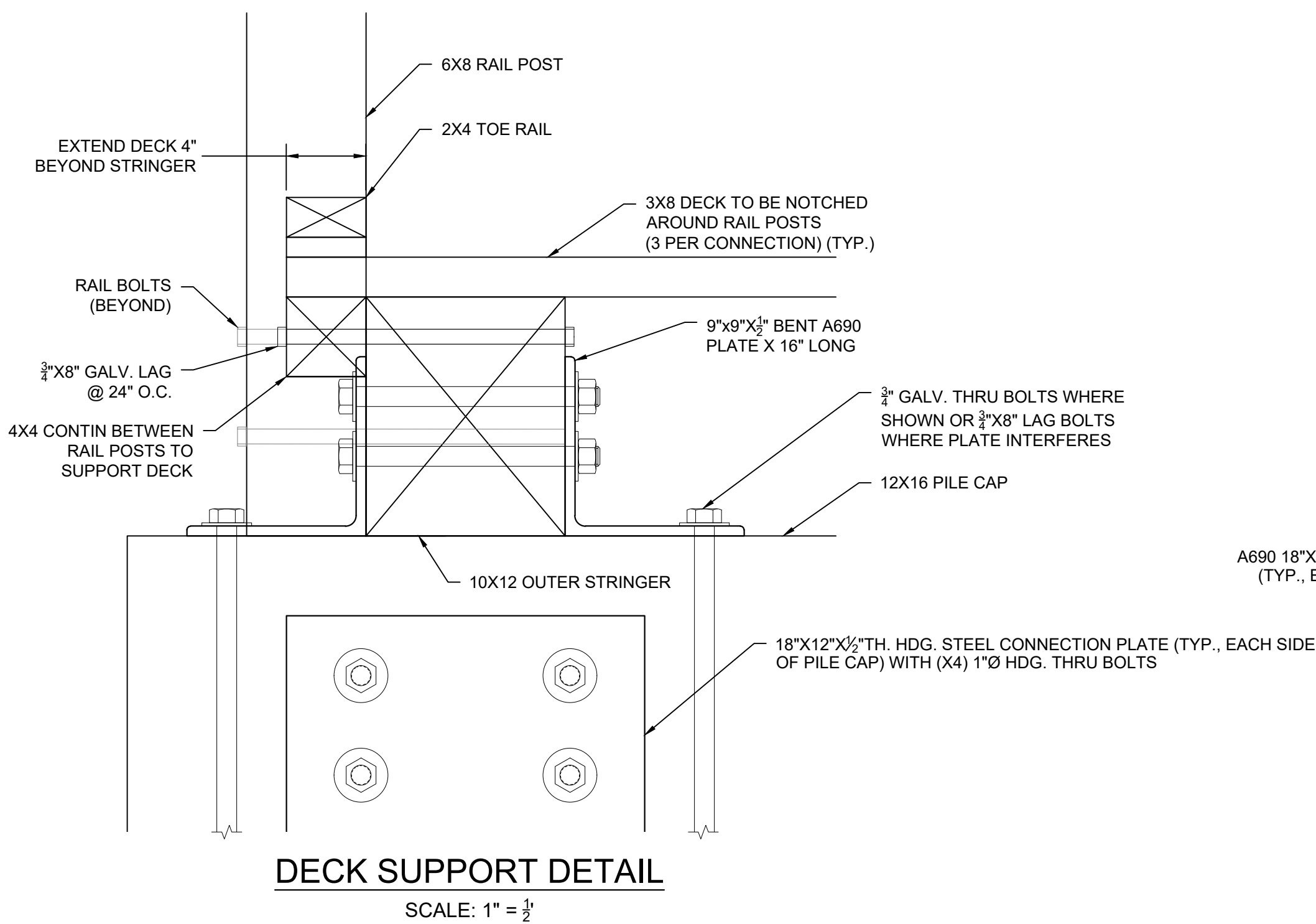
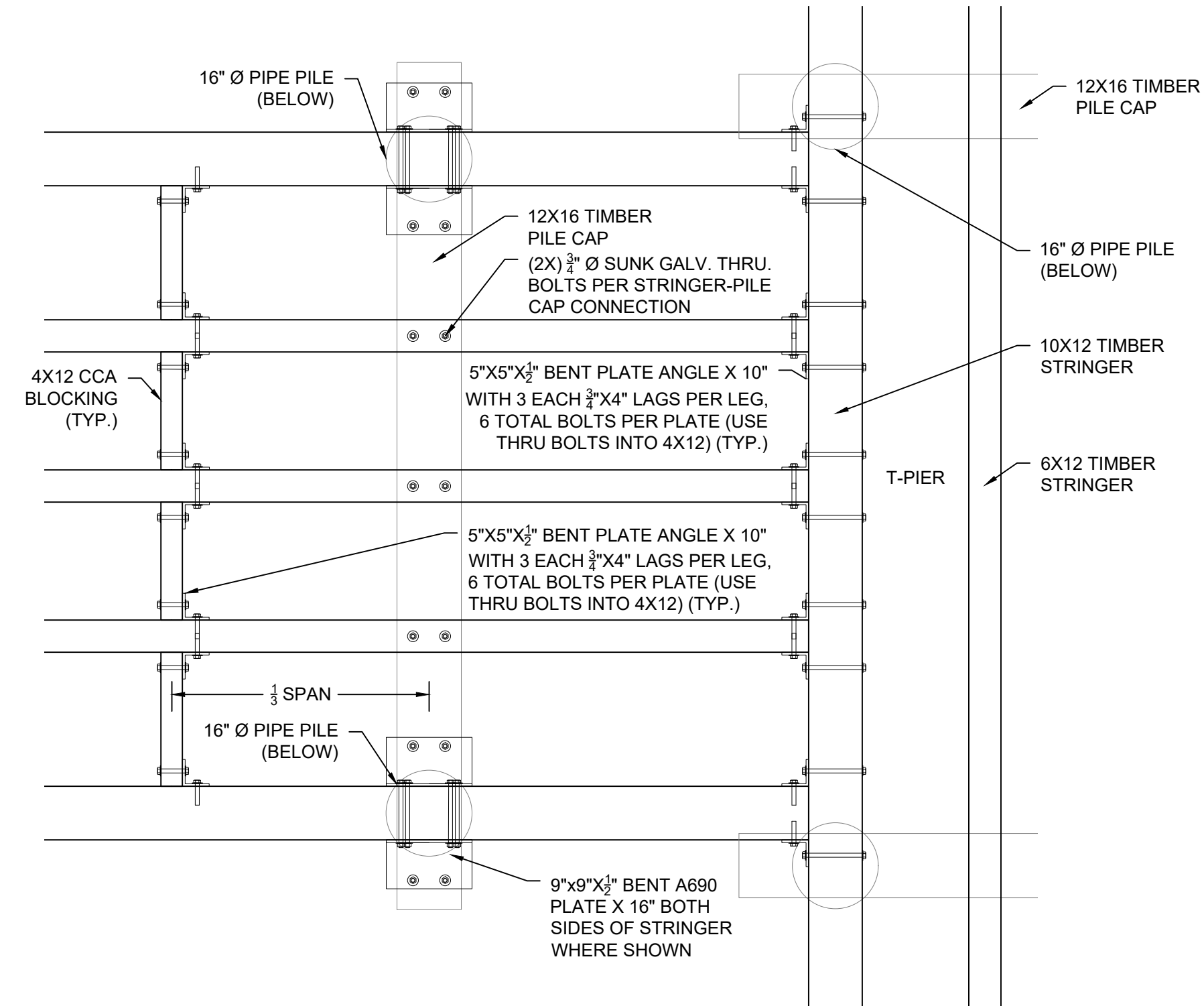
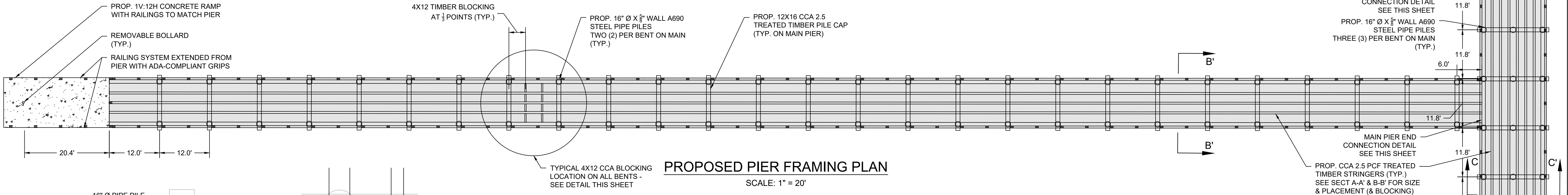
PROJ MGR: DAS
DESIGNED BY: AJK
DATE: FEBRUARY, 2023

REVIEWED BY: ABB
DRAWN BY: AJP/AJK
PROJECT NO.: 18.0174941.00

CHECKED BY: ABB
SCALE: AS SHOWN
REVISION NO.: 1

DRAWING
1
SHEET NO. 1 OF 5

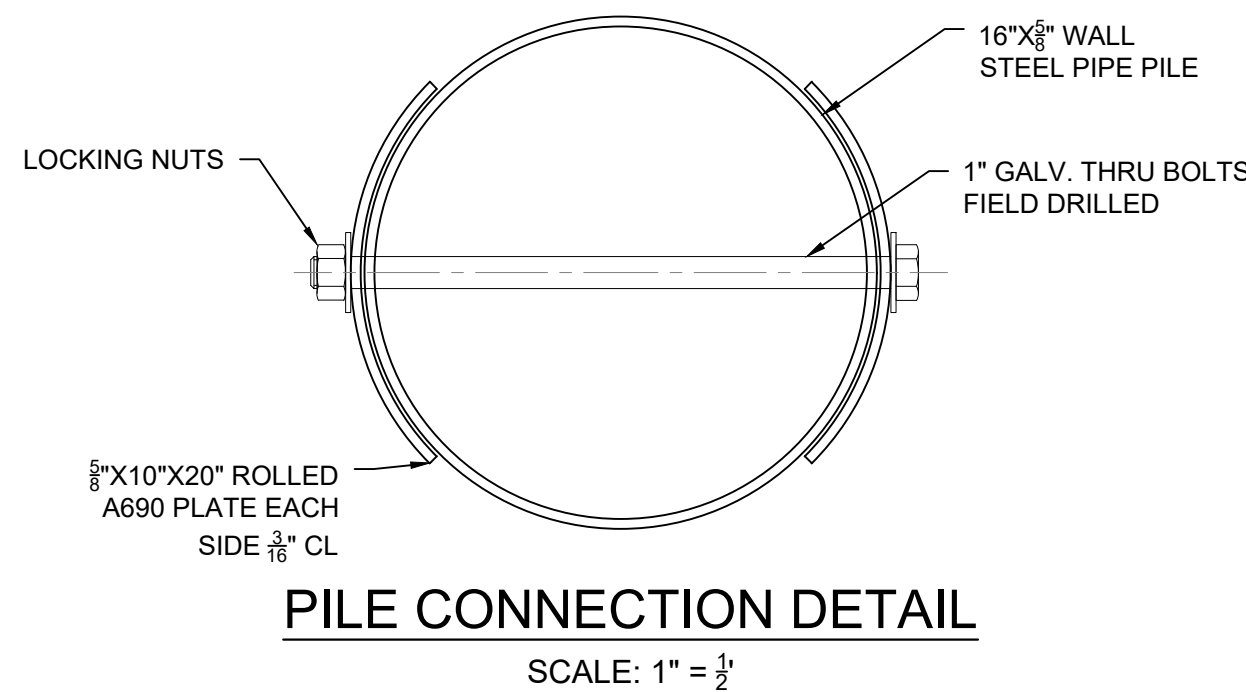
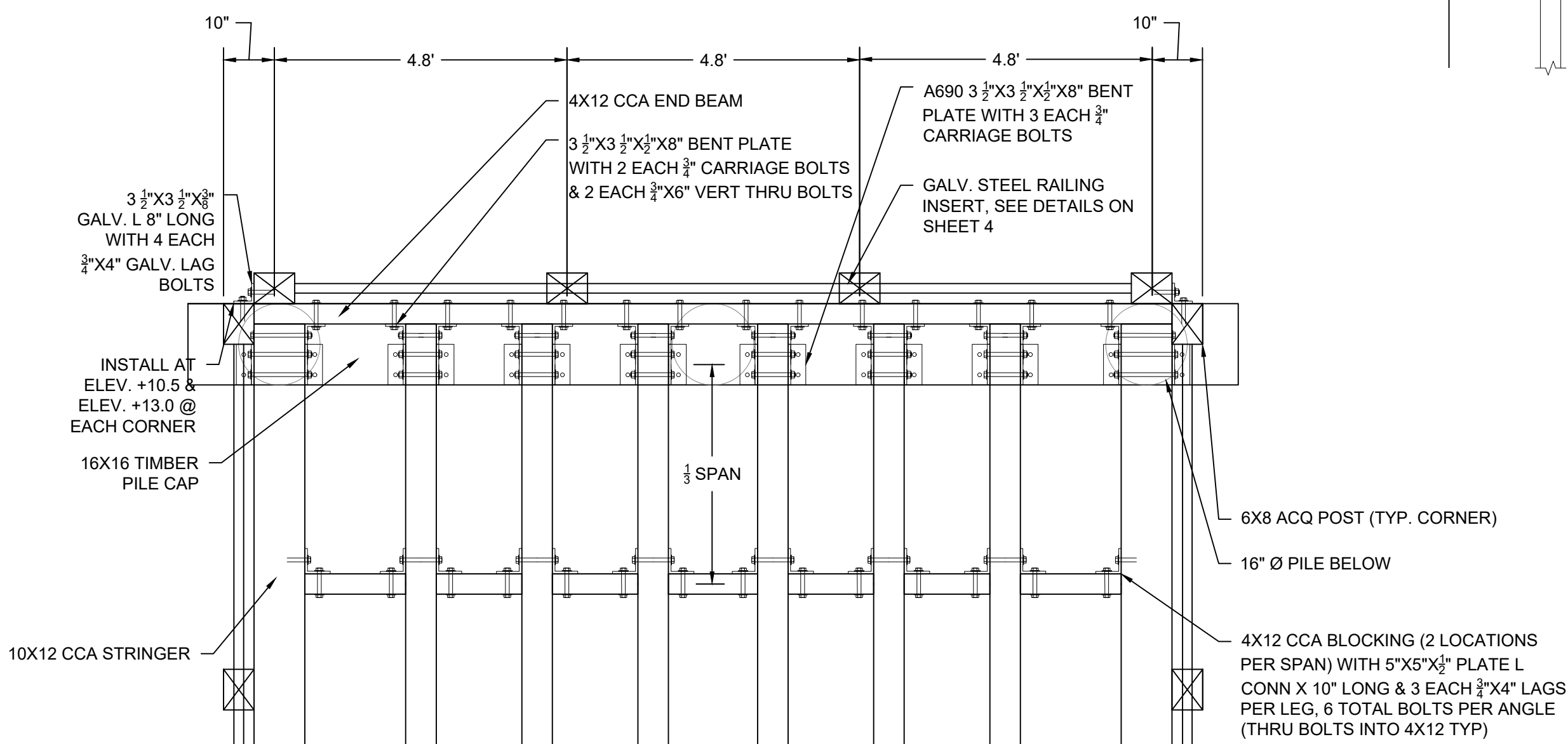
NOTE: ACCESS RAMP ALTERNATIVES MAY BE CONSTRUCTED OF CONCRETE (SHOWN) OR FILL OR TIMBER (NOT SHOWN) AND WILL GENERALLY OCCUPY THE SAME FOOTPRINT AS INDICATED.



MAIN PIER END & STRINGER BLOCKING CONNECTION DETAIL

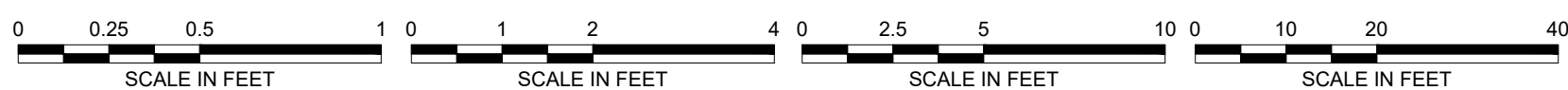
DECK SUPPORT DETAIL

STRINGER ANCHOR & SPLICE DETAIL



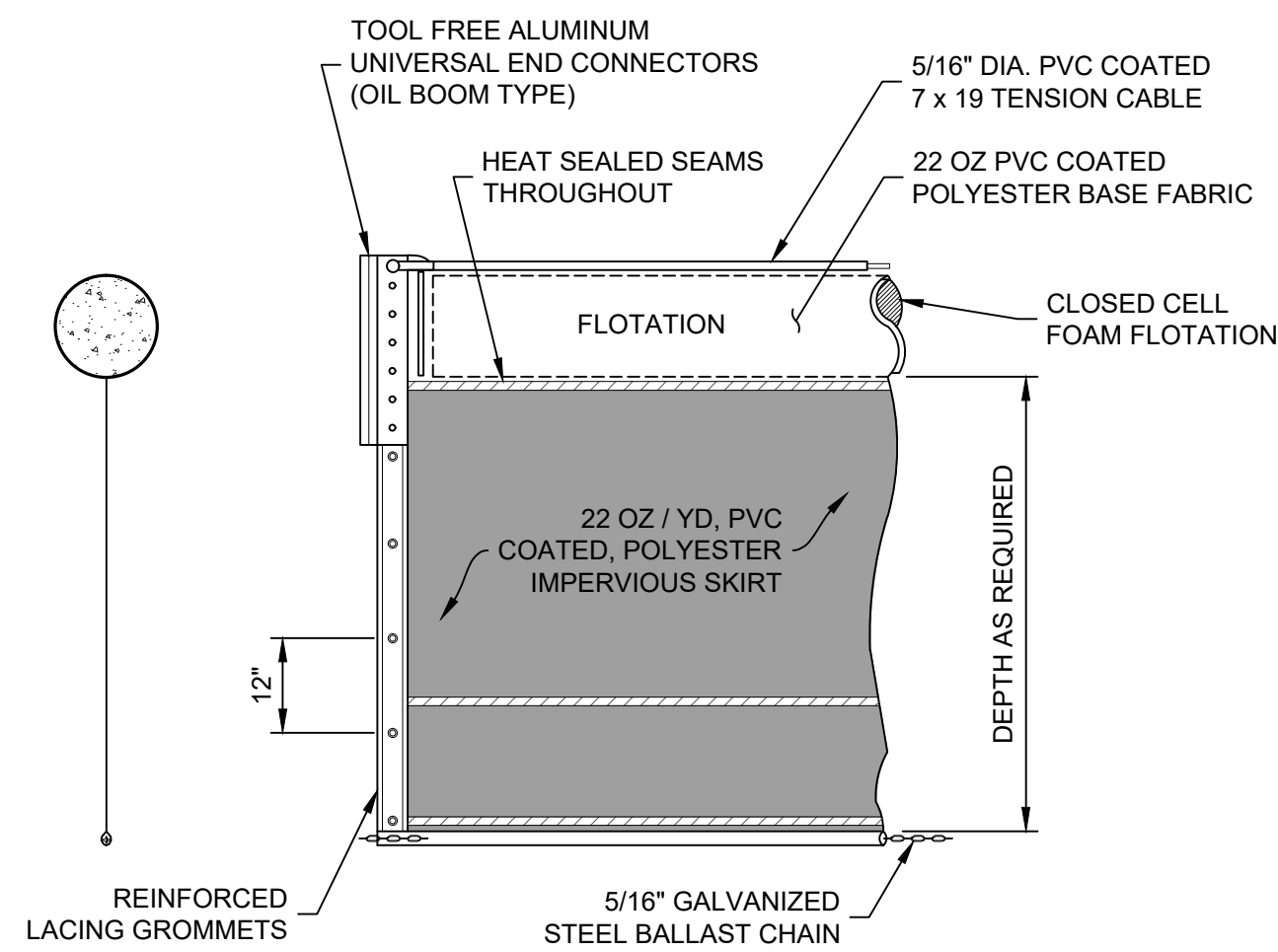
PILE CONNECTION DETAIL

T-PIER END & STRINGER BLOCKING CONNECTION DETAIL

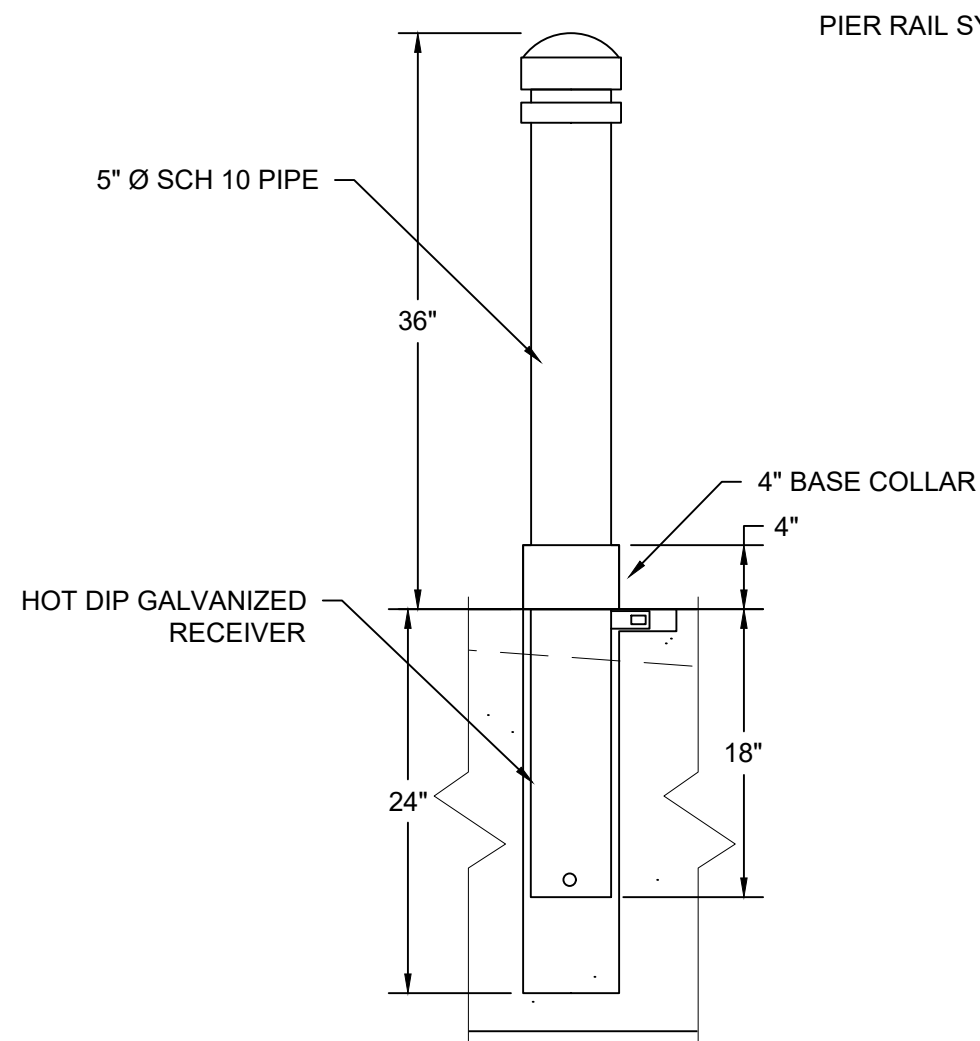


NO.	ISSUE/DESCRIPTION	BY	DATE
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DMF-21002 RECREATIONAL FISHING PIER SALEM WILLOWS PARK SALEM, MASSACHUSETTS			
PHASE 2: PROPOSED FRAME PLAN AND PIER CONNECTION DETAILS			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: COMMONWEALTH OF MASSACHUSETTS DIVISION OF MARINE FISHERIES 835 S. RODNEY FRENCH BLVD. NEW BEDFORD, MASSACHUSETTS 02740 AND THE CITY OF SALEM, MASSACHUSETTS	
PROJ MGR: DAS	REVIEWED BY: ABB	CHECKED BY: ABB	DRAWING
DESIGNED BY: AJK	DRAWN BY: AJP/AJK	SCALE: AS SHOWN	
DATE: FEBRUARY, 2023	PROJECT NO. 18.0174941.00	REVISION NO.	3
			SHEET NO. 3 OF 5

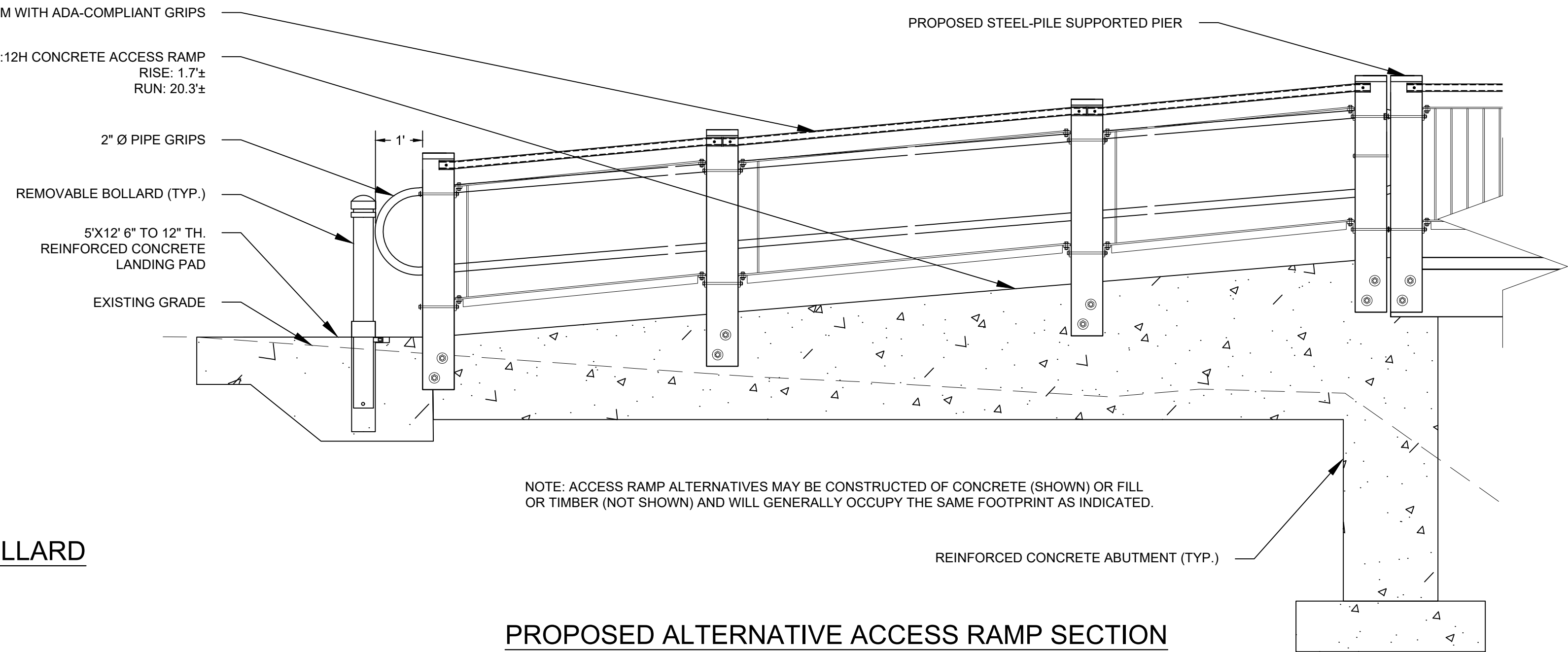
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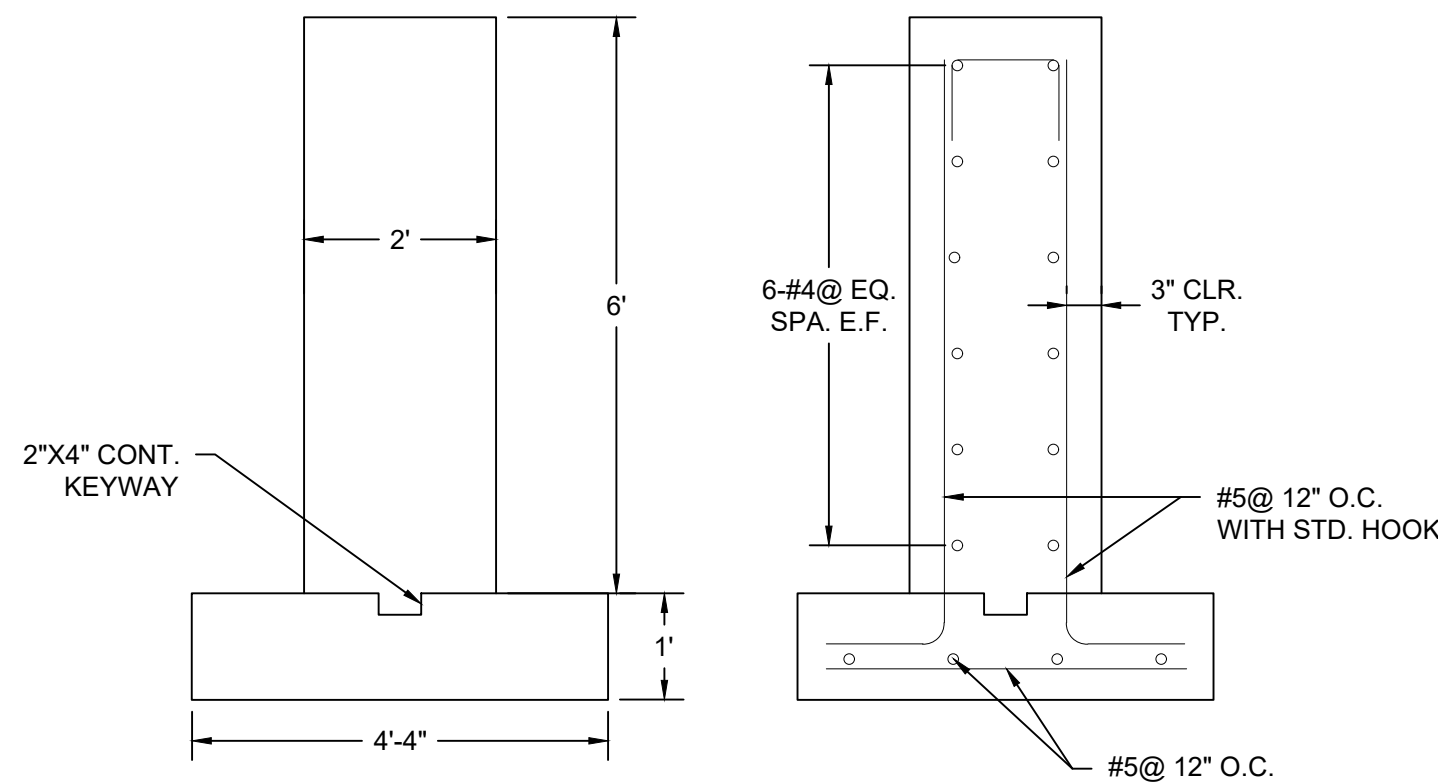
TYPICAL DETAIL FLOATING BOOM WITH TURBIDITY CURTAIN
NOT TO SCALE



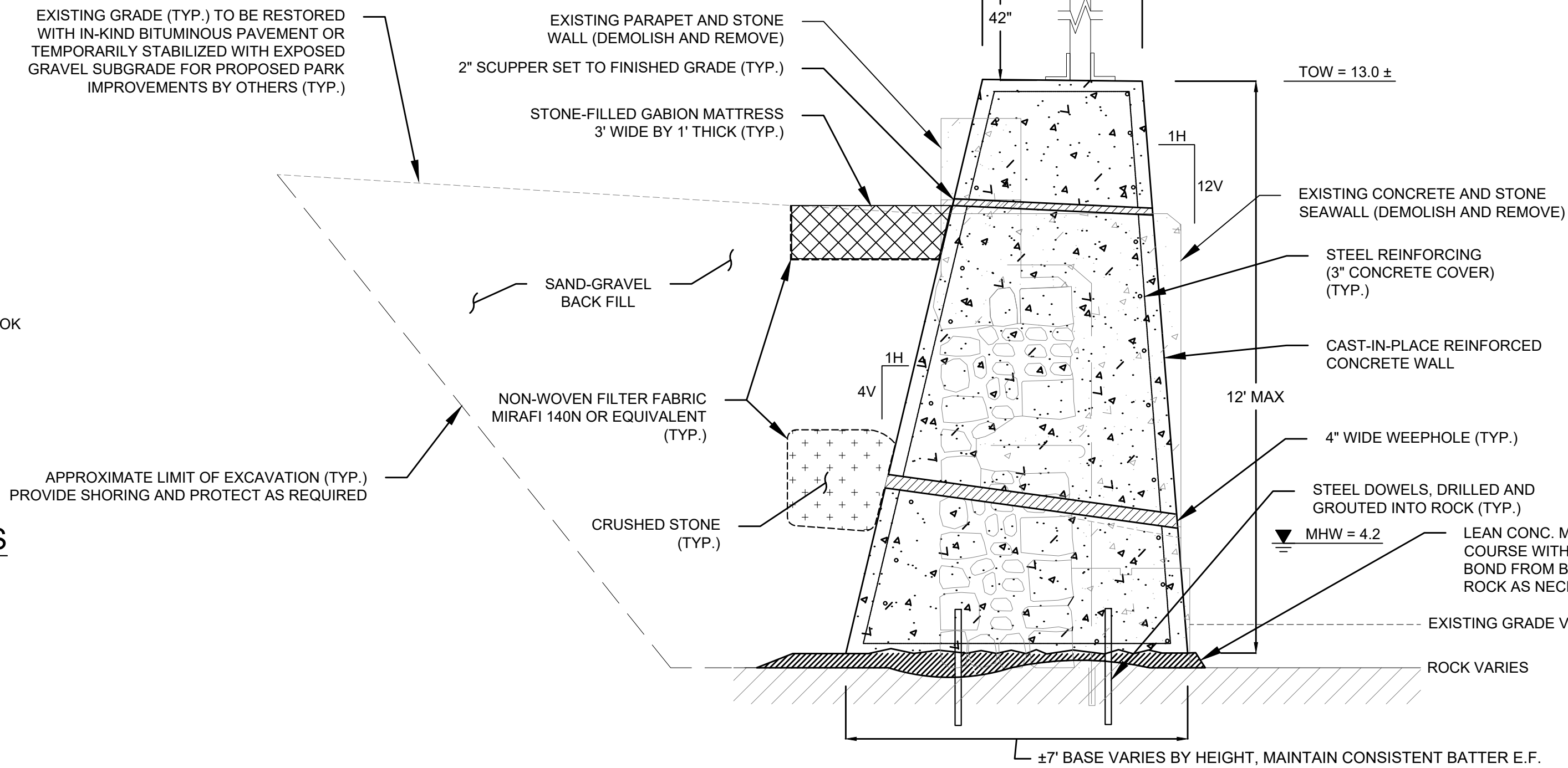
PROPOSED DECORATIVE REMOVABLE BOLLARD
SCALE: 1" = 1'



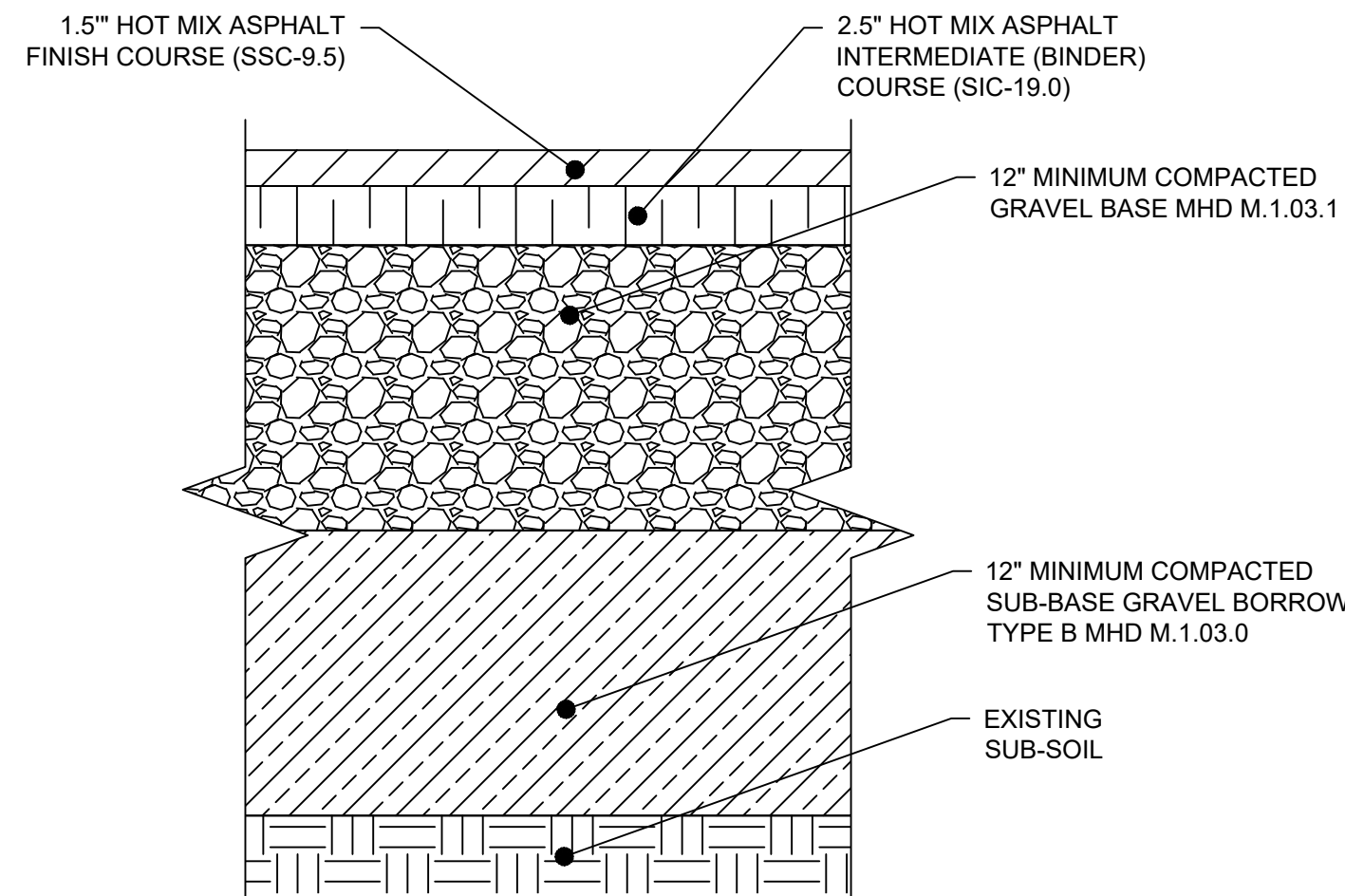
PROPOSED ALTERNATIVE ACCESS RAMP SECTION
SCALE: 1" = 5'



PROPOSED CONCRETE ABUTMENT CROSS SECTIONS
SCALE: 1" = 2'



PROPOSED SEAWALL REPLACEMENT SECTION
SCALE: N.T.S



NOTES:
THE SOIL MUST HAVE A MOISTURE CONTENT DRY OF OPTIMUM AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D1557. THE SOIL CAN BE COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D698 THE SOIL SHALL NOT BE USED IF THE MATERIAL CONTAINS ORGANIC MATTER, RUBBLE, DEBRIS OR ANY OTHER DELETERIOUS MATERIAL.

PROPOSED PAVEMENT SECTION
NOT TO SCALE

NO.	ISSUE/DESCRIPTION	BY	DATE
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DMF-21002 RECREATIONAL FISHING PIER SALEM WILLOWS PARK SALEM, MASSACHUSETTS			
PHASE 2: PROPOSED ABUTMENT AND SEAWALL DETAILS			
PREPARED BY: G2A GeoEnvironmental, Inc. 835 S. RODNEY FRENCH BLVD. NEW BEDFORD, MASSACHUSETTS 02740 AND THE CITY OF SALEM, MASSACHUSETTS		PREPARED FOR: COMMONWEALTH OF MASSACHUSETTS DIVISION OF MARINE FISHERIES 835 S. RODNEY FRENCH BLVD. NEW BEDFORD, MASSACHUSETTS 02740	
PROJ MGR: DAS	REVIEWED BY: ABB	CHECKED BY: ABB	DRAWING
DESIGNED BY: AJK	DRAWN BY: AJP/AJK	SCALE: AS SHOWN	5
DATE: FEBRUARY, 2023	PROJECT NO. 18.0174941.00	REVISION NO.	SHEET NO. 5 OF 5

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0 1 2 4 0 2.5 5 10
SCALE IN FEET SCALE IN FEET