

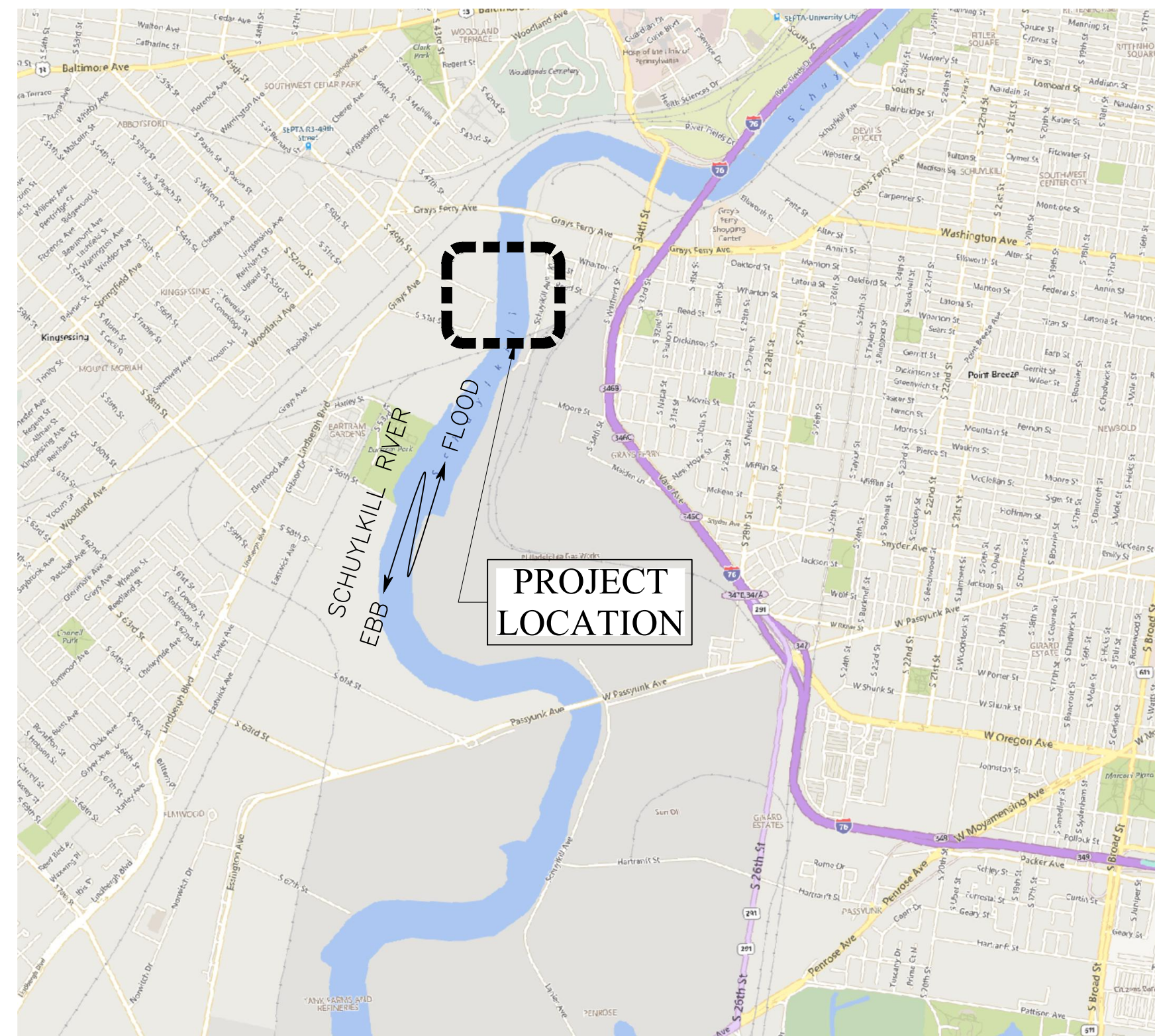
SRDC FISHING DOCK REHABILITATION

1637 S 49TH STREET, PHILADELPHIA, PA 19143

FOR

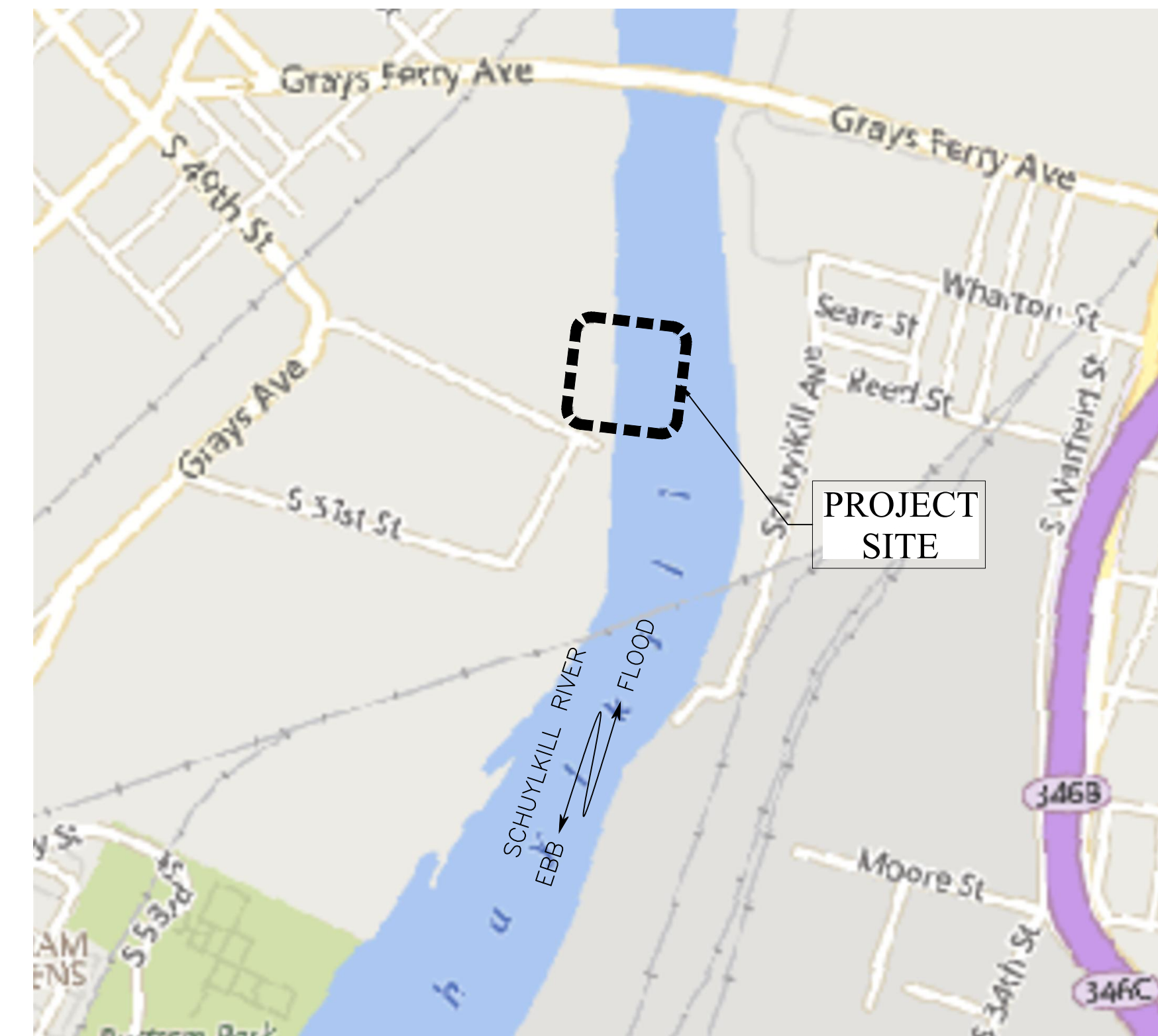
SCHUYLKILL RIVER DEVELOPMENT CORPORATION

2410 WALNUT STREET, SUITE
603, PHILADELPHIA, PA 19103



VICINITY MAP

DRAWING LIST	
SHEET NUMBER	SHEET TITLE
CS-01	COVER SHEET
GN-01	GENERAL STRUCTURAL NOTES
GN-02	GENERAL STRUCTURAL NOTES 1
EX-1	EXISTING SITE PLAN
EX-2	EXISTING PIER CONDITION PLAN
EX-3	EXISTING PIER ELEVATION & SECTION
CV-1	PROPOSED SITE PLAN
DM-1	DEMOLITION PLAN, ELEVATION & SECTION
S-1	PROPOSED PILE PLAN
S-2	PROPOSED FRAMING PLAN
S-3	DOWNRIVER ELEVATION
S-4	OUTSHORE ELEVATION AND SECTIONS
S-5	TYPICAL STRUCTURAL DETAILS
S-6	TYPICAL HANDRAIL DETAILS
S-7	RETAINING WALL SECTION AND DETAILS
ES-1	EROSION AND SEDIMENT CONTROL PLAN
ES-2	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

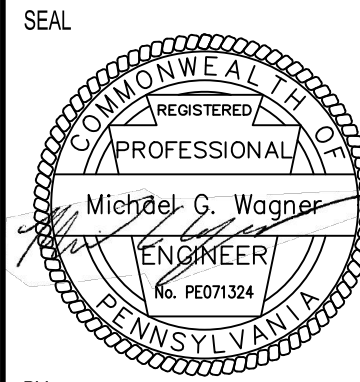
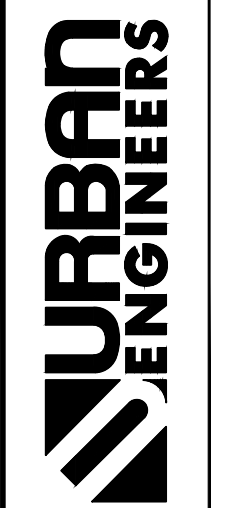


LOCATION MAP

URBAN PROJECT NO. 2019610049.000

ISSUED FOR
BID
DATE: 08/31/21

530 Walnut Street
Philadelphia, PA
19106-3685
o. 215.522.8080



BY:

DATE:

REV	DATE	DESCRIPTION
0	08/31/21	ISSUED FOR BID

SCHUYLKILL RIVER DEVELOPMENT CORPORATION
PHILADELPHIA, PA
SRDC FISHING DOCK REHABILITATION
COVER SHEET

SCALE: AS NOTED
DATE: 08/31/21
PROJECT NO: 2019610049.000
SHEET NUMBER: CS-01
SHT NO: 1 OF 18
DRAWING FILE NO: CS-0..._DWG
REV NO: 0

T:\PROJECTS\ON-GOING\2019 PROJECTS\2019610049.000 - SRDC FISHING PIER FEASIBILITY STUDY\WORKDRAWINGS\WORKING DRAWINGS\CURRENT\CS-01 COVER SHEET.DWG
DATE PRINTED: 9/1/2021 1:46:39 PM

GENERAL NOTES

- 1. DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES AND STANDARDS...
2. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO MOBILIZING...
3. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL WASTE MATERIAL, DEMOLISHED MATERIAL AND DEBRIS GENERATED DURING THE COURSE OF THE WORK...
4. THE CONTRACTOR SHALL PLACE SEDIMENT CONTROL DEVICES, BOOMS, TARPULINS, FLOATS, STAGING, TURBIDITY BARRIERS, AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION MATERIALS FROM ENTERING THE WATER...
5. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE ENVIRONMENTAL PROTECTION STANDARDS, CODES, LAWS, REGULATIONS, AND PERMITS.
6. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO NOT INTERFERE WITH, OR BE DETRIMENTAL TO, VESSEL AND VEHICULAR TRAFFIC DURING THE COURSE OF THE WORK.
7. ALL STRUCTURES ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER ERECTION IS FULLY COMPLETE.
8. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

SURVEY NOTES:

- 1. SURVEY INFORMATION SHOWN ON THESE PLANS IS BASED ON A FIELD SURVEY, WHICH WAS PREFORMED BY HUNT ENGINEERING COMPANY ON MARCH 19, 2019.
2. DATUM: HORIZONTAL = PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83. VERTICAL = NAVD88
3. THE BASIS OF BEARINGS FOR THIS SURVEY IS GRID NORTH (PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83).
4. FLOOD ZONE BOUNDARIES ARE TAKEN FROM FEMA GIS.

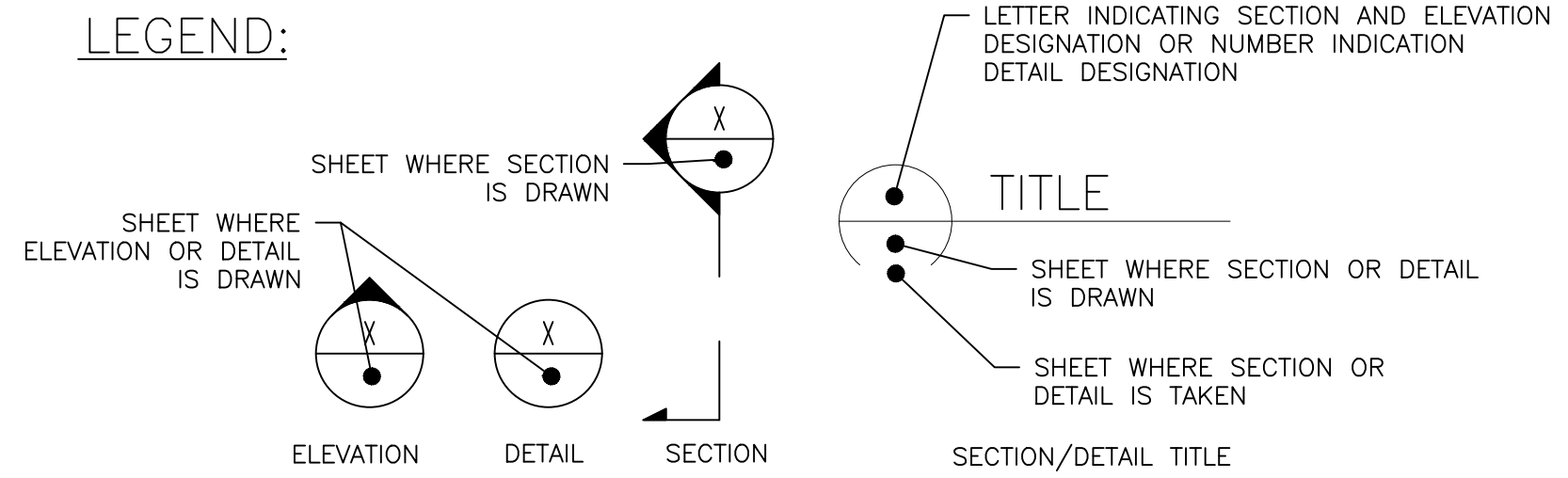
CONCRETE AND REINFORCING STEEL

- 1. ALL CONCRETE WORK SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI 301 AND ACI 318, UNLESS OTHERWISE SPECIFIED.
2. FOLLOW THE REQUIREMENTS OF ACI 306 WHEN POURING CONCRETE IN COLD WEATHER.
3. CAST-IN-PLACE CONCRETE STRENGTH SHALL BE A MINIMUM OF 5000 PSI AT 28 DAYS, U.N.O.
4. NONMETALLIC NON-SHRINK GROUT STRENGTH SHALL BE A MINIMUM OF 5000 PSI AT 28 DAYS, U.N.O.
5. THE CONTRACTOR SHALL MAINTAIN PROPER CURING PROCEDURES FOR A MINIMUM OF 7 DAYS.
6. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315.
7. REINFORCING STEEL FOR CAST-IN-PLACE CONCRETE SHALL CONFORM TO ASTM A 615, GR 60, EXCEPT REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A 706.
8. MINIMUM CONCRETE COVER FOR ALL REINFORCING SHALL BE 2 INCHES, U.N.O.
9. ALL CONSTRUCTION JOINTS SHALL BE KEYED, U.N.O. JOINTS SHALL BE PROVIDED AS NECESSARY AT LOCATIONS, AND USING METHODS, APPROVED BY THE ENGINEER.
10. ALL REINFORCING BAR SPLICES SHALL BE TENSION LAP SPLICES, IN ACCORDANCE WITH ACI 318, U.N.O.
11. CHAMFER ALL EXTERNAL EXPOSED CORNERS OF CONCRETE WITH A 1 INCH, 45-DEGREE CHAMFER, U.N.O.
12. WELDING OF REINFORCING STEEL SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.4.

STRUCTURAL AND MISCELLANEOUS STEEL

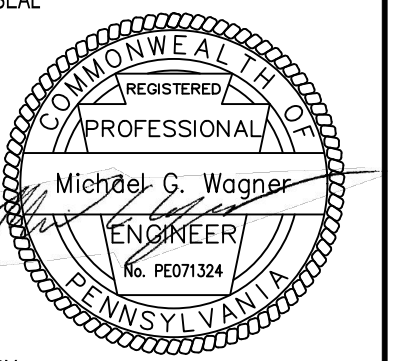
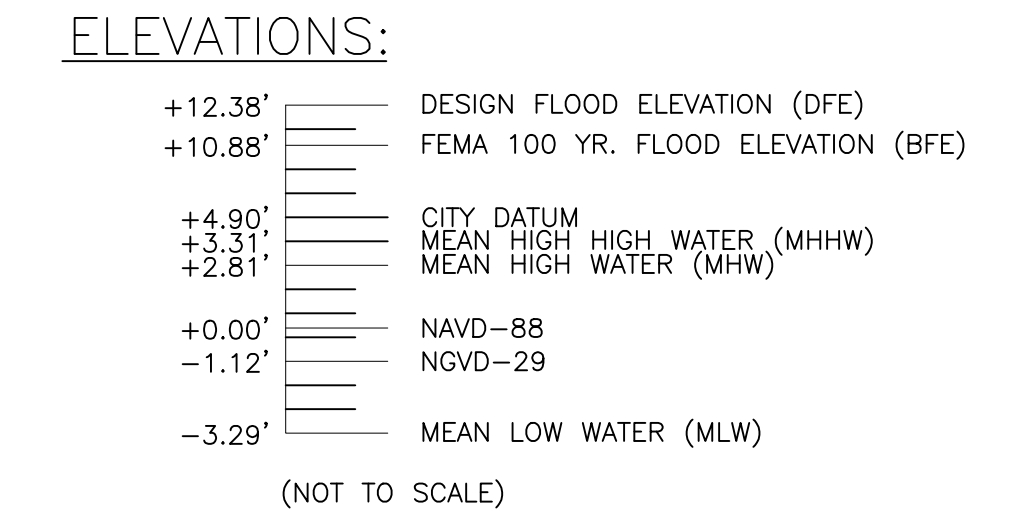
- 1. ALL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL. DESIGN, FABRICATION, AND ERECTION ARE TO BE GOVERNED BY THE LATEST REVISIONS OF:
A. AISC STEEL CONSTRUCTION MANUAL
B. AISC CODE OF STANDARD PRACTICE
C. AWS D1.1 STRUCTURAL WELDING CODE
D. RCSC SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS
2. STRUCTURAL AND MISCELLANEOUS STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, U.N.O.:
WIDE FLANGE SHAPES: ASTM A 992, GRADE 50
HP PILES: ASTM A 572, GRADE 50
PIPE PILES: ASTM A 252, GRADE 3, Fy = 50 KSI
PIPE: ASTM A 53, GRADE B, TYPE S
HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A 500
OTHER SHAPES, BARS AND PLATES: ASTM A 36, Fy = 36 KSI
HEADED BOLTS: ASTM A 325
ANCHOR BOLTS: ASTM A 449
STEEL SHEET PILE (SSP): ASTM A 572, GRADE 50
NUTS: ASTM A 563
WASHERS: ASTM F 436
3. IF OVERSIZED HOLES ARE USED, WASHERS MUST BE EXTRA THICK, AND MAY REQUIRE WELDING.
4. ALL MISCELLANEOUS METALS INCLUDING BOLTS, WASHERS, NUTS, ANGLES, INSERTS, PLATES, AND OTHER FABRICATIONS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A 123 AND/OR ASTM A 153, AS APPLICABLE AFTER FABRICATION, UNLESS OTHERWISE NOTED OR SPECIFIED. STAINLESS STEEL ITEMS SHALL NOT BE GALVANIZED.
5. FIELD TREAT DAMAGED GALVANIZED FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZING COMPOUNDS OR APPROVED EQUAL. IN ADDITION, ALL EXPOSED THREADED SURFACES SHALL BE CLEANED AND PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF THE NUT(S).
6. THE TYPE, SIZE, SPACING, AND ALIGNMENT OF CONNECTING HARDWARE SHOWN ARE CRITICAL AND MUST BE MAINTAINED.
7. ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1, U.N.O. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES, UNLESS HIGHER STRENGTH ELECTRODES ARE REQUIRED BY AWS D1.1. GENERALLY, ELECTRODES SHALL BE NEW OR BAKED AT THE START OF EACH SHIFT. FOLLOW THE ATMOSPHERIC EXPOSURE LIMITS AND BAKING REQUIREMENTS OF CLAUSE 5 OF AWS D1.1.
8. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1, U.N.O.
9. MINIMUM SIZE OF FILLET WELDS SHALL BE 5/16" U.N.O.
10. WHEN THE 'ALL-AROUND' WELDING SYMBOL IS USED AT AN END CONNECTION OF A ROLLED SHAPE, THE CONTRACTOR SHALL TERMINATE THE WELD AT EACH OF THE FLANGE EDGES, AND ONE WELD THICKNESS AWAY FROM EACH INTERSECTION OF THE WEB AND FLANGE, U.N.O.
11. DOWELS, BOLTS, REINFORCEMENT OR OTHER STEEL TO BE EMBEDDED IN CONCRETE SHALL BE INSTALLED USING HILTI HIT-HY 200 EPOXY, U.N.O.

REBAR TABLE with columns: BAR SIZE, MIN. LAP SPLICE, MIN. DEVELOPMENT LENGTH, TOP BAR (INCHES), OTHER BAR (INCHES). Rows include #4, #5, #6, #7, #8, #9, #10, #11.



CIVIL/STRUCTURAL ABBREVIATIONS, U.N.O.

- AASHTO = AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACI = AMERICAN CONCRETE INSTITUTE
AISC = AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT = ALTERNATE
ANSI = AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX = APPROXIMATE
ARCH. = ARCHITECTURAL
ASTM = AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG = AVERAGE
AWS = AMERICAN WELDING SOCIETY
B.O.P. = BOTTOM OF PIPE
B/B = BACK TO BACK
C/C = CENTER TO CENTER
CF = CUBIC FEET
C.I.P. = CAST IN PLACE
CJ = CONSTRUCTION JOINT
CLR = CLEAR
CO = CLEAN OUT
CONC = CONCRETE
CONST = CONSTRUCTION
CONT = CONTINUOUS
CTE = COAL TAR EPOXY
CY = CUBIC YARD
D = DEPTH
D/R = DOWNRIVER
DEG = DEGREES
DETL'S = DETAILS
DIA = DIAMETER
DIST = DISTANCE
DWG = DRAWING
DWT = DEAD WEIGHT TONNAGE
E = EAST
EA = EACH
EF = EACH FACE
EHW = EXTREME HIGH WATER
EJ = EXPANSION JOINT
EL/ELEV. = ELEVATION
ELEC = ELECTRICAL
EW = EACH WAY
EXIST. = EXISTING
EXT = EXTERIOR
EXPN = EXPANSION
FDN. = FOUNDATION
FPS = FEET PER SECOND
FRP = FIBERGLASS REINFORCED PLASTIC
FS = FAR SIDE
FT = FEET
FY = YIELD STRESS
GALV = GALVANIZED
GR = GRADE
GRNG = GRATING
GUSS = GUSSET
H = HEIGHT
HAT = HIGHEST ASTRONOMICAL TIDE
HTL = HIGH TIDE LINE
HVV = HEAVY
I = I BEAM
I/S = INSHORE
INV = INVERT
JT = JOINT
kg = KILOGRAMS
KIP = KILOPOUND
kN = KILONEWTONS
L = ANGLE
LAT = LOWEST ASTRONOMICAL TIDE OR LATITUDE
LB = POUND
LF = LINEAR FEET
LG = LONG
LLV = LONG LEG VERTICAL
LOA = LENGTH OVERALL
LONG. = LONGITUDE
LT = LONG TON
m = METERS
mm = MILLIMETERS
MAX = MAXIMUM
MEA = MEASURED
MHHW = MEAN HIGHER HIGH WATER
MHW = MEAN HIGH WATER
MIN = MINIMUM
MISC = MISCELLANEOUS
MLLW = MEAN LOWER LOW WATER
MLW = MEAN LOW WATER
MPa = MEGAPASCALS
MPH = MILES PER HOUR
MSL = MEAN SEA LEVEL
N = NEWTON OR NORTH
NAVD-88 = NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD-29 = NATIONAL GEODETIC VERTICAL DATUM OF 1929
NTP = NOTICE TO PROCEED
NIC = NOT IN CONTRACT
NS = NEAR SIDE
NTS = NOT TO SCALE
NO. = NUMBER
O.C. = ON CENTER
O/S = OUTSHORE
OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PSI = POUNDS PER SQUARE INCH
PVC = POLYVINYL CHLORIDE
R/F = REINFORCING
R.C.P. = REINFORCED CONCRETE PIPE
REQ'D = REQUIRED
S = SOUTH
SCH = SCHEDULE
SECT = SECTION
SHT = SHEET
SIM = SIMILAR
SPEC = SPECIFICATION
SQ = SQUARE
SS = STAINLESS STEEL
SSP = STEEL SHEET PILE
STL = STEEL
STRUC. = STRUCTURE
SUPP = SUPPORT
SY = SQUARE YARD
T, TONNE = METRIC TON
TON = SHORT TON
T.B.D = TO BE DETERMINED
TEMP = TEMPORARY
THK = THICKNESS
THRU = THROUGH
T.O. = TOP OF
T.O.C = TOP OF CONCRETE
T.O.S = TOP OF STEEL
TYP = TYPICAL
U.N.O. = UNLESS NOTED OTHERWISE
UHMWPE = ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
U/R = UP RIVER
USACE = UNITED STATES ARMY CORPS OF ENGINEERS
W/ = WITH
W = WIDTH, WIDE FLANGE BEAM OR WEST
W.P./WP = WORK POINT
W.T. = WALL THICKNESS
WT = WEIGHT
CL = CENTER LINE
= NUMBER
% = PERCENT
PL = PLATE
& = AND
@ = AT
x = BY
Ø = DIAMETER



Revision table with columns: REV, DATE, DESCRIPTION. Includes entries for 01/08/21, 02/03/21, 03/05/21, 04/06/21, 05/07/21, 06/08/21, 07/09/21, 08/10/21, 09/11/21, 10/12/21, 11/13/21, 12/14/21.

Project information: SCHUYLKILL RIVER DEVELOPMENT CORPORATION, SRDC FISHING DOCK REHABILITATION, PHILADELPHIA, PA. Includes drawing title, sheet number (GN-01), and revision details.

T:\PROJECTS\ON-GOING\2019 PROJECTS\2019610049.000 - SRDC FISHING PIER FEASIBILITY STUDY\WORKING DRAWINGS\CURRENT\GN-01 GENERAL STRUCTURAL NOTES.DWG
DATE PRINTED: 9/11/2021 1:46:52 PM
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DESIGN VESSELS

- LARGEST DESIGN VESSEL CHARACTERISTIC:
SMALL DAY-CRAFT
LOA = 25 FT
BEAM = 8 FT

DESIGN LOADS

- LIVE LOADS:
GENERAL LIVE LOAD = 100 PSF
- WIND:
STORM WIND VELOCITY (PERMANENT STRUCTURE ONLY) = 115 MPH
- CURRENT:
TYPICAL CURRENT VELOCITY = 3.0 FPS
100 YEAR FLOOD VELOCITY = 9.0 FPS
- SEISMIC
SITE CLASS: E
IMPORTANCE FACTOR: II = 1.00
SEISMIC DESIGN CATEGORY: C
SPECTRAL RESPONSE
ACCELERATIONS: S_s = 0.202
S₁ = 0.06
SPECTRAL RESPONSE COEF: SDS = 0.336
SD1 = 0.141

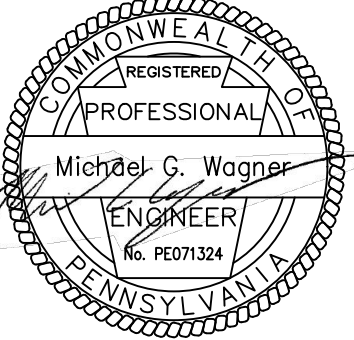
FOUNDATION

- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE AVAILABLE SOIL BORING INFORMATION. IF AVAILABLE, THE GEOTECHNICAL INVESTIGATION REPORT FOR THIS PROJECT CAN BE OBTAINED FROM THE OWNER.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNUSUAL SOIL CONDITIONS IMMEDIATELY.
- THE CONTRACTOR SHALL TAKE CARE WHEN USING HEAVY EQUIPMENT IN THE VICINITY OF EXCAVATED SLOPES. NO WORK SHALL BE PERFORMED IN THE VICINITY OF SLOPES THAT ARE SATURATED FROM HEAVY RAINS, OR THROUGH WHICH GROUNDWATER IS ACTIVELY DRAINING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND FINAL CLEARANCE OF ANY REQUIRED NEEDLING, UNDERPINNING, SHORING, FALSEWORK, FORMWORK, TEMPORARY SUPPORT, AND TEMPORARY BRACING OF EXISTING STRUCTURES.
- SPUDDING, PRE-AUGERING, AND/OR JETTING OF PILES IS NOT PERMITTED, U.N.O.
- TIMBER PILES SHALL CONFORM TO ASTM D 25. TIMBER PILES SHALL BE UNTREATED SOUTHERN YELLOW PINE, U.N.O.
- DO NOT DRIVE, VIBRATE, OR EXTRACT PILES WITHIN 50 FT. OF RECENTLY POURED CONCRETE UNTIL THE CONCRETE HAS BEEN PROPERLY CURED FOR A MINIMUM OF 7 DAYS.
- EXISTING AND NEW STRUCTURES SHALL NOT BE USED AS FALSEWORK FOR PILE DRIVING, U.N.O.
- STEEL PIPE PILES SHALL BE WELDABLE IN ACCORDANCE WITH AWS D1.1. SPIRAL WELD PIPE PILES SHALL ONLY BE USED WITH THE WRITTEN APPROVAL OF THE ENGINEER.
- PILES SHALL NOT BE PULLED, JACKED, OR OTHERWISE MANIPULATED INTO POSITION. THE CONTRACTOR SHALL ENSURE THAT ALL PILES ARE INSTALLED IN THE LOCATIONS INDICATED ON THE DRAWINGS. THE CONTRACTOR MUST COORDINATE WITH THE ENGINEER AND ALLOW THE ENGINEER TO MEASURE THE PILE POSITION BEFORE WELDING OR CONNECTING DRIVEN PILES, AT THE ENGINEER'S DISCRETION. THE FINAL HORIZONTAL TOLERANCE ALLOWED AT THE TOPS OF THE PILE IS 1" MAXIMUM. IF A PILE IS OUTSIDE OF THIS TOLERANCE AFTER DRIVING AND FALSEWORK REMOVAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SUBMIT A MODIFIED CONNECTION DETAIL TO THE ENGINEER FOR APPROVAL.
- PILE DRIVING WILL BE INITIATED WITH A SOFT START TO ALLOW AQUATIC ANIMALS AN OPPORTUNITY TO LEAVE THE AREA.
 - FOR IMPACT DRIVING, FOR IMPACT DRIVING, PILE DIVING WILL COMMENCE WITH AN INITIAL SET OF THREE HAMMER STRIKES AT 40% ENERGY, FOLLOWED BY A ONE MINUTE WAITING PERIOD. THIS SEQUENCE WILL BE REPEATED TWO ADDITIONAL TIMES BEFORE INITIATING CONTINUOUS DRIVING.
 - FOR VIBRATORY DRIVING, PILE VIBRATION WILL BE INITIATED FOR 15 SECONDS AT A REDUCED ENERGY, FOLLOWED BY A ONE MINUTE WAITING PERIOD. THIS SEQUENCE WILL BE REPEATED TWO ADDITIONAL TIMES BEFORE INITIATING CONTINUOUS DRIVING.

530 Walnut Street
Philadelphia, PA
19106-3685
o. 215.522.6060



SEAL



BY:

DATE:

REV	DATE	DESCRIPTION	BY	CKD	APD	MGW
0	08/31/21	ISSUED FOR BID	PB			

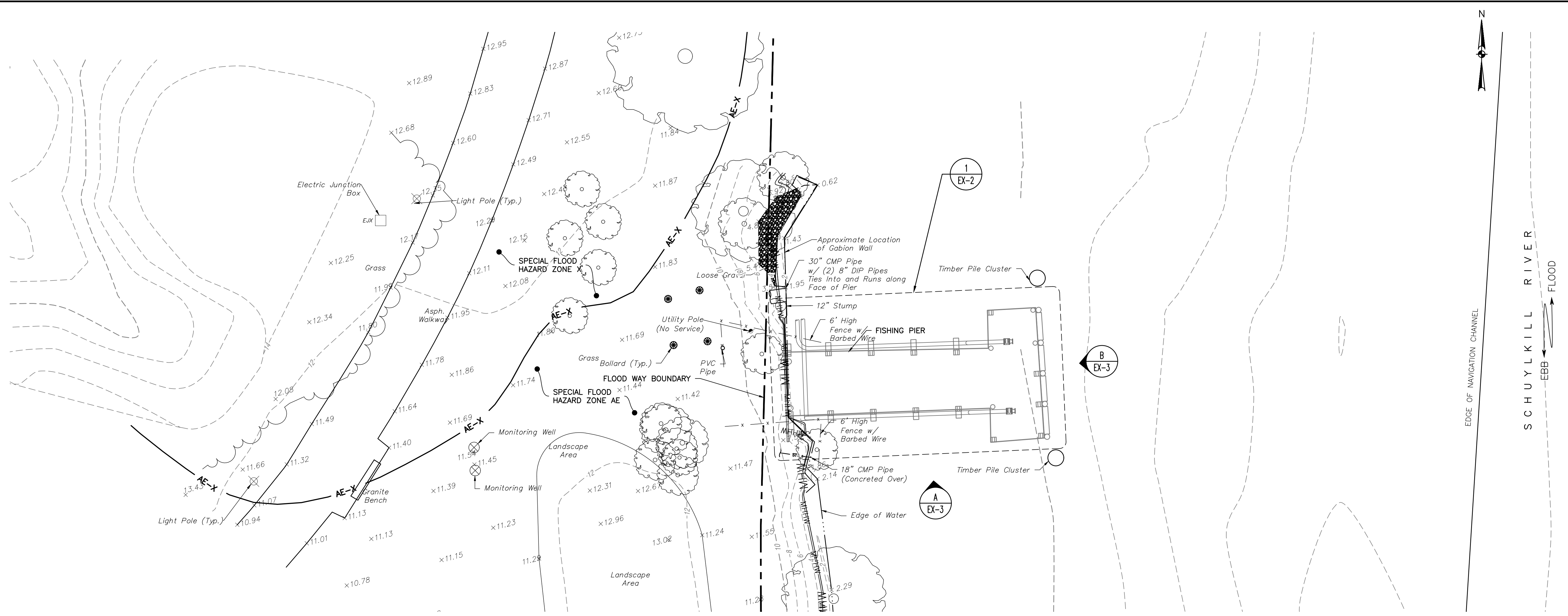
PHILADELPHIA, PA

SCHUYLKILL RIVER DEVELOPMENT CORPORATION
SRDC FISHING DOCK REHABILITATION

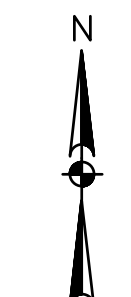
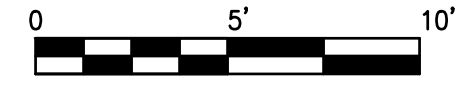
GENERAL STRUCTURAL NOTES 1

SCALE:	AS NOTED	DESIGN BY:	MP
DATE:	08/31/21	APPROVED BY:	MGW
PROJECT NO:	2019610049.000	DRAWN BY:	MP
SHEET NUMBER:	GN-02	CHECKED BY:	PB
SHT. NO.:	3	OF	18
DRAWING FILE NO.:	GN-0..._DWG	REV. NO.:	0

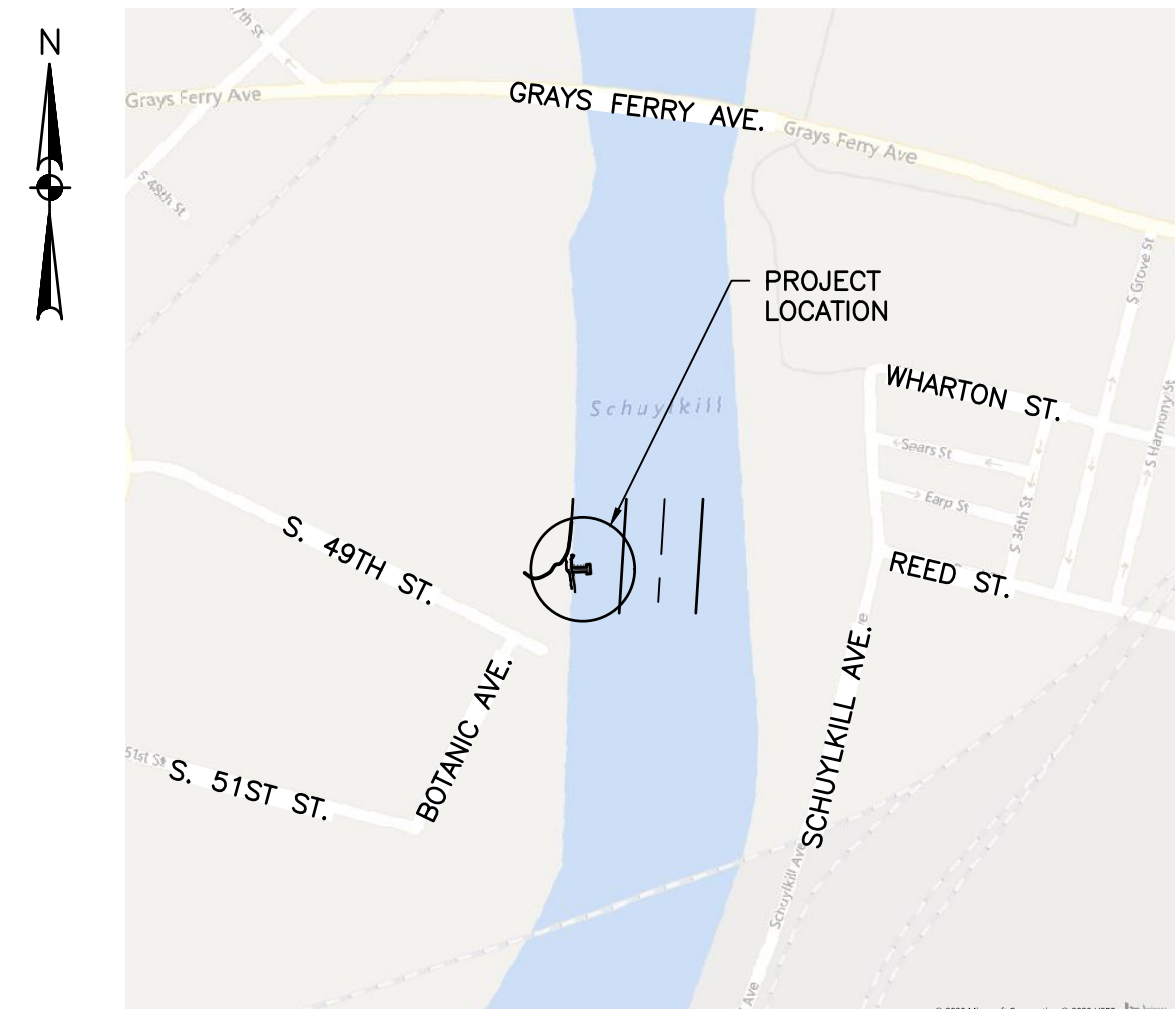
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DATE PRINTED: 9/1/2021 1:46:58 PM
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EXISTING SITE PLAN



EDGE OF NAVIGATION CHANNEL
 SCHUYLKILL RIVER
 EBB ← FLOOD



LOCATION MAP

N.T.S.

ELEVATIONS:

+12.38'	DESIGN FLOOD ELEVATION (DFE)
+10.88'	FEMA 100 YR. FLOOD ELEVATION (BFE)
+4.90'	CITY DATUM
+3.31'	MEAN HIGH HIGH WATER (MHHW)
+2.81'	MEAN HIGH WATER (MHW)
+0.00'	NAVD-88
-1.12'	NGVD-29
-3.29'	MEAN LOW WATER (MLW)

(NOT TO SCALE)

LEGEND:

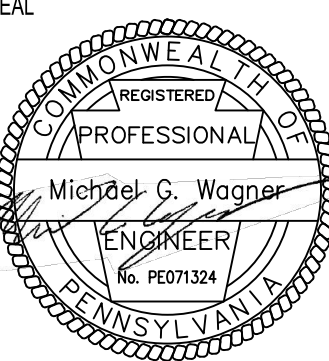
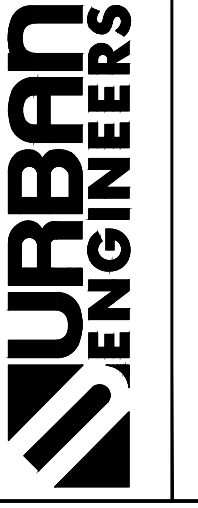
- AE-X — SPECIAL FLOOD HAZARD ZONE AE/X BOUNDARY (FROM FEMA FIRM #4207570179G)
- MHW — MEAN HIGH WATER
- MHHW — MEAN HIGH HIGH WATER
- — FLOOD WAY BOUNDARY (FROM FEMA FIRM #4207570179G)
- - - 25 - - - EXISTING CONTOUR

NOTES:

- LIMITS OF THE EXISTING DOCK APPROXIMATE. DUE TO DETERIORATED CONDITION OF THE DOCK IT WAS NOT SURVEYED BY THE SURVEY TEAM. APPROXIMATE DIMENSION WERE TAKEN DURING THE UNDERWATER INSPECTION.

ISSUED FOR BID
 DATE: 08/31/21

630 Walnut Street
 Philadelphia, PA 19106-3485
 P. 215.922.8080



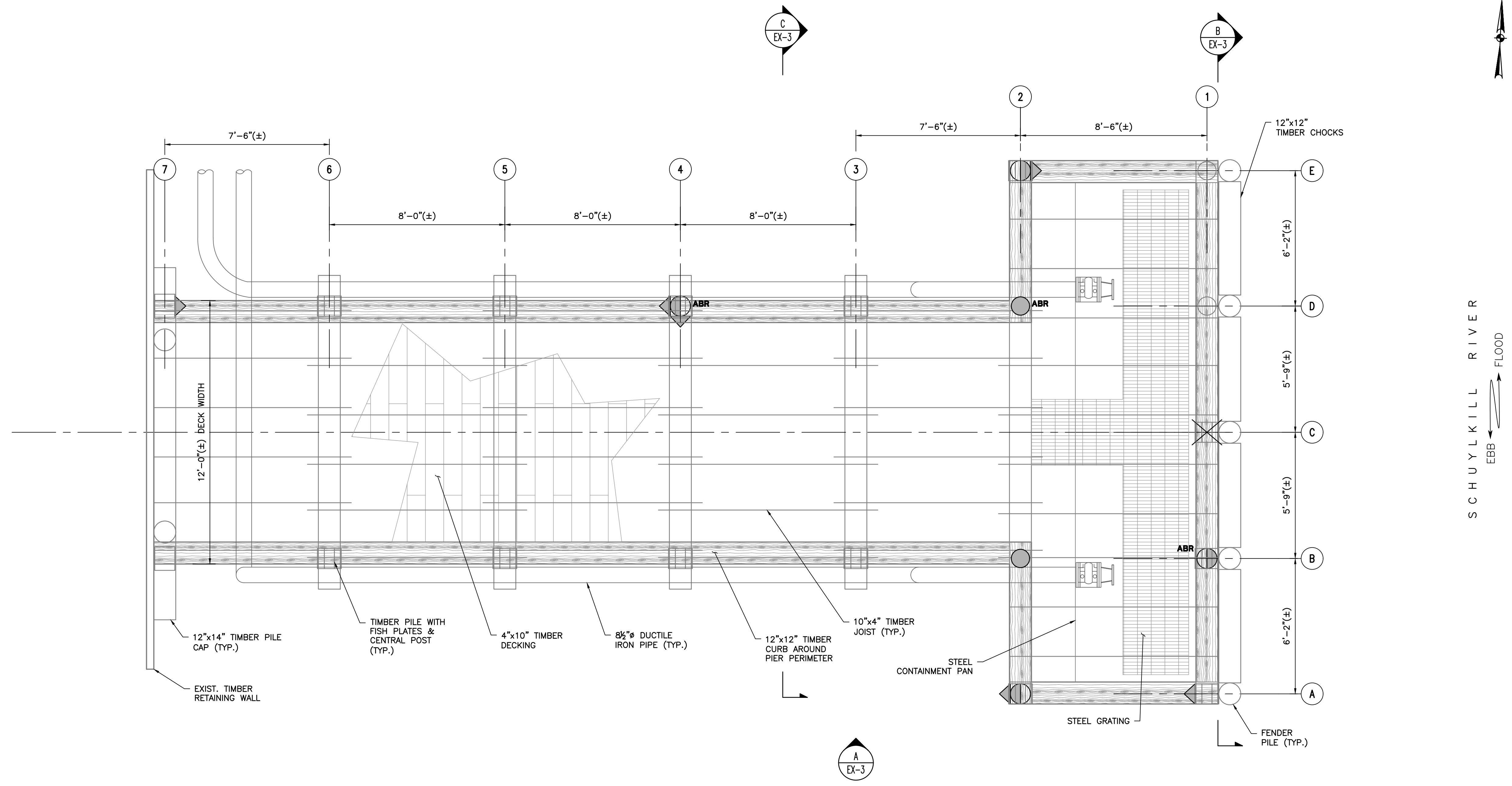
BY: _____
 DATE: _____

REV	DATE	DESCRIPTION
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		PB
		BY
		CKD
		APD
		MCW

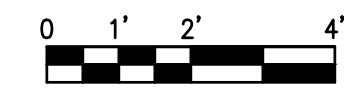
SCHUYLKILL RIVER DEVELOPMENT CORPORATION PHILADELPHIA, PA
SRDC FISHING DOCK REHABILITATION

SCALE: AS NOTED DESIGN BY: MP
 DATE: 08/31/21 APPROVED BY: MKR
 DRAWN BY: MP
 CHECKED BY: PB

PROJECT NO. 2019610049.000
 SHEET NUMBER **EX-1**
 SHEET NO. 4 OF 18
 DRAWING FILE NO. EX-1... DWG REV. NO. 0



1 EXISTING PIER CONDITION PLAN
 EX-2
 EX-1



NOTES:

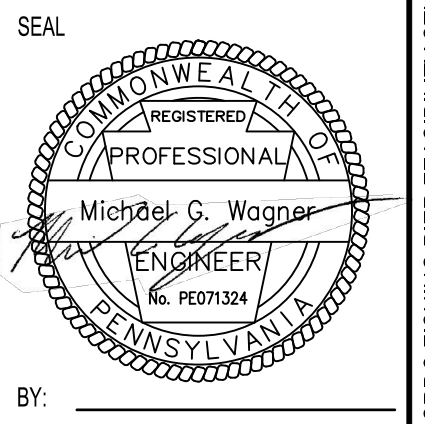
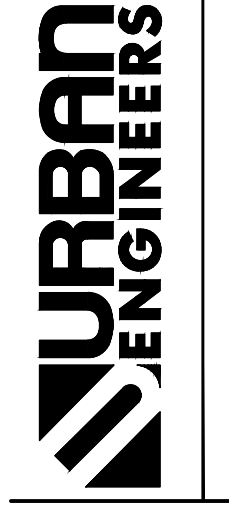
- FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.
- THE EXISTING CONDITIONS SHOWN ON THIS SHEET ARE BASED ON AN UNDERWATER CONDITION INSPECTION PERFORMED BY URBAN ENGINEERS ON 3/26/19.

LEGEND:

- SEVERED
- NO BEARING/POOR BEARING
- LEANING
- PILE NO LONGER POSTED
- ABR** ABRASION DAMAGE

ISSUED FOR BID
 DATE: 08/31/21

630 Walnut Street
 Philadelphia, PA
 19106-3485
 o. 215.922.8080



BY: _____
 DATE: _____

REV	DATE	DESCRIPTION	BY	CHKD	APD
0	08/31/21	ISSUED FOR BID	PB	SMM	MCW

SCHUYLKILL RIVER DEVELOPMENT CORPORATION PHILADELPHIA, PA

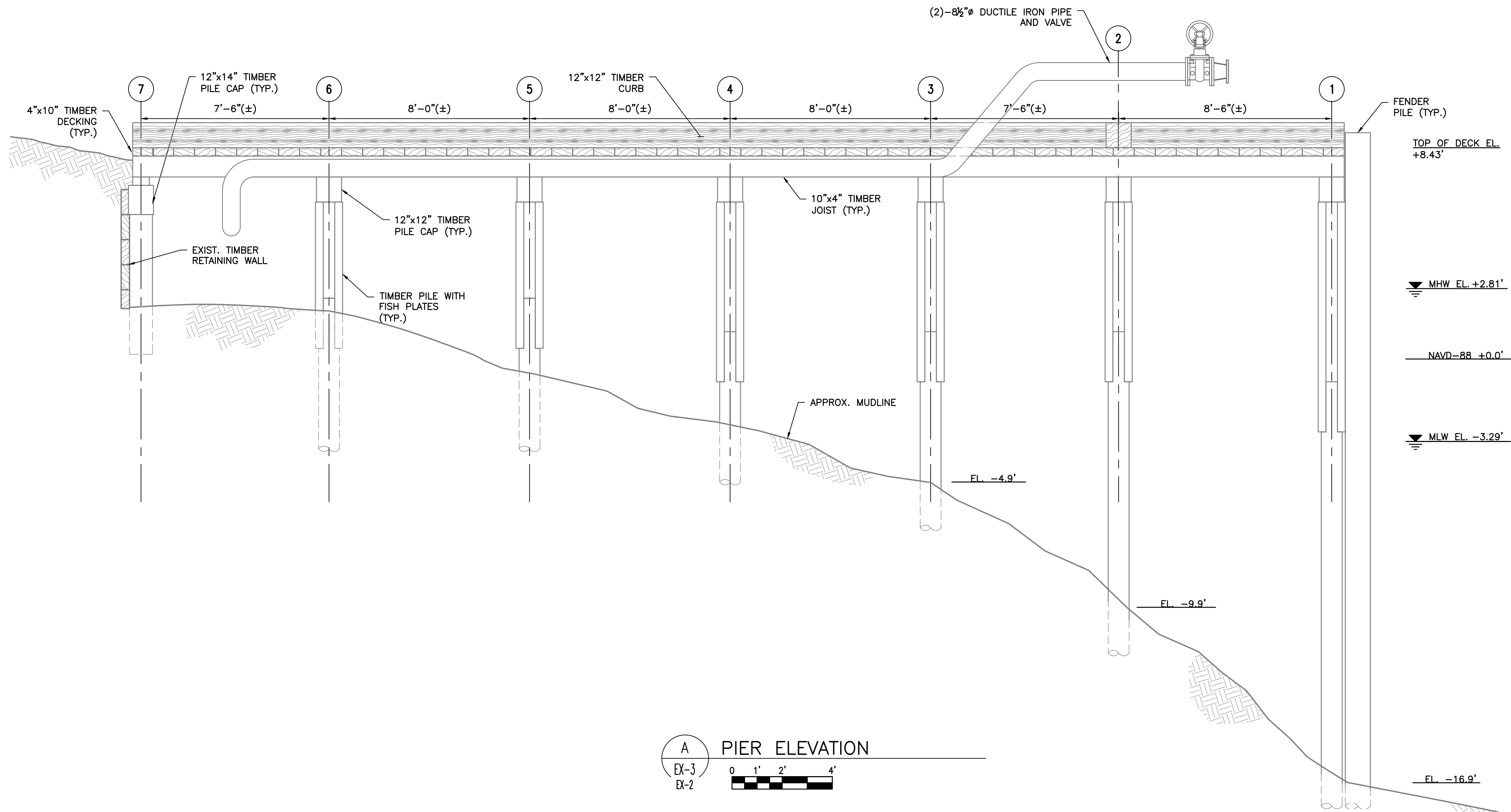
SRDC FISHING DOCK REHABILITATION

EXISTING PIER CONDITION PLAN

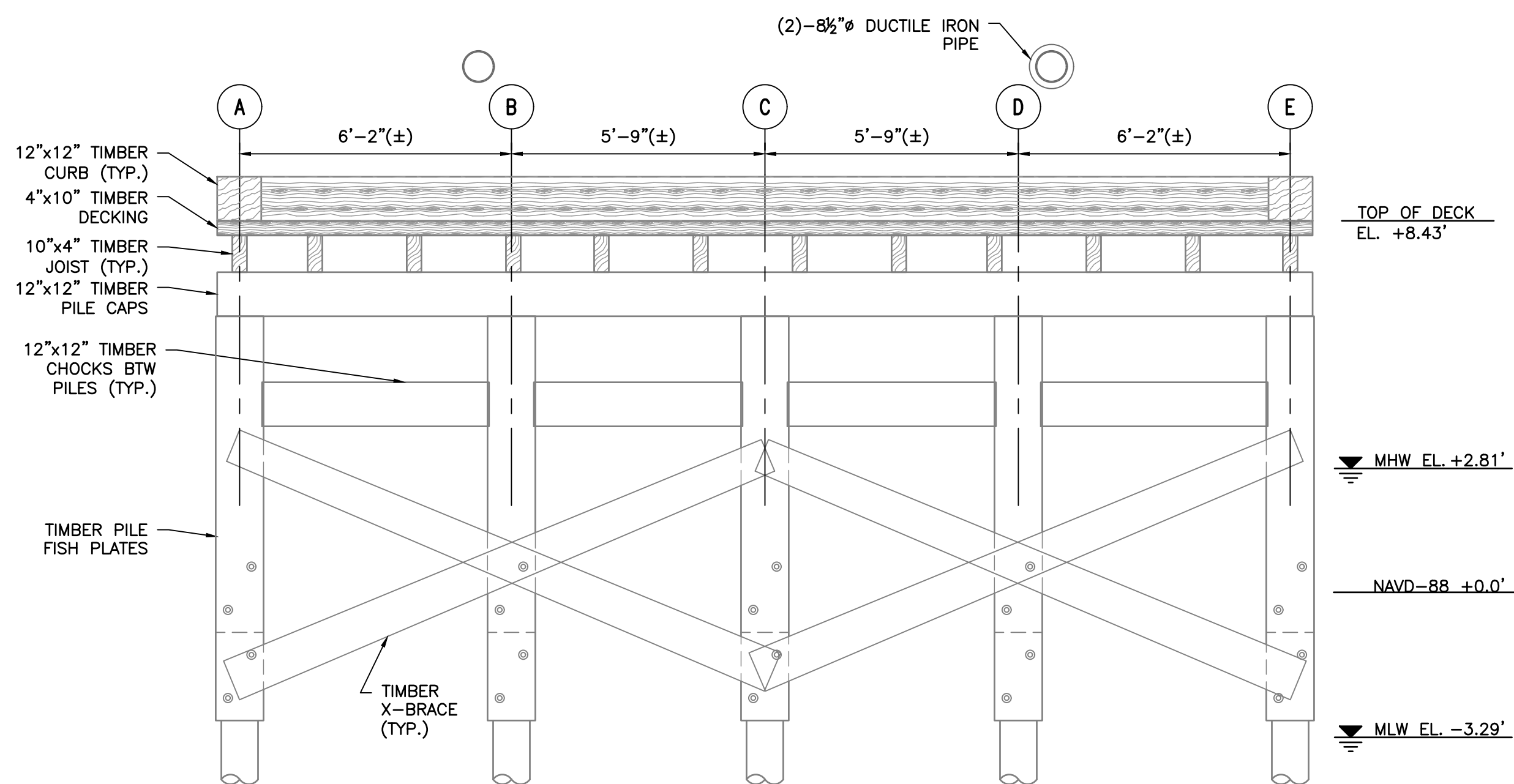
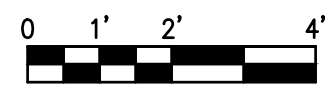
SCALE: AS NOTED DESIGN BY: MP
 DATE: 08/31/21 APPROVED BY: MGR
 DRAWN BY: MP
 CHECKED BY: PB

PROJECT NO: 2019610049.000
 SHEET NUMBER: **EX-2**

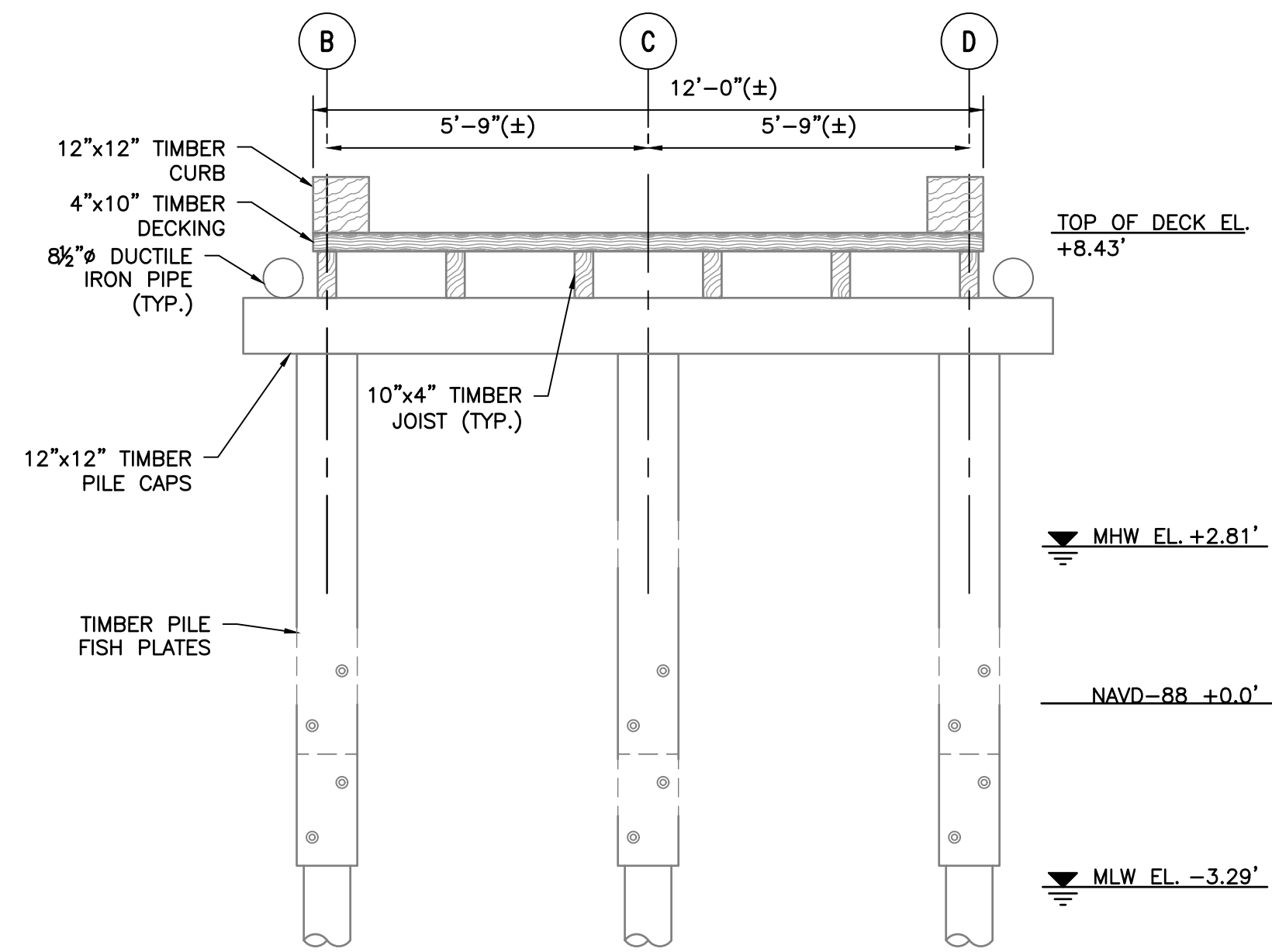
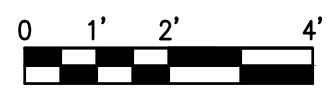
SHEET NO: 5 OF 18
 DRAWING FILE NO: EX-2... DWG
 REV. NO: 0



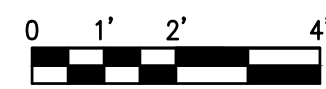
A PIER ELEVATION
EX-3
EX-2



B PIER ELEVATION
EX-3
EX-2



C PIER SECTION
EX-3
EX-2

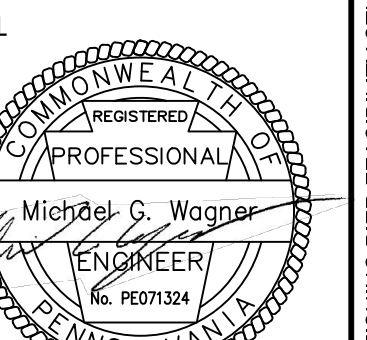


NOTES:

- FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.

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19106-3485
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BY:

DATE:

REV	DATE	DESCRIPTION	BY	CHKD	APD
0	08/31/21	ISSUED FOR BID	PB	SMM	MCW

SCHUYLKILL RIVER DEVELOPMENT CORPORATION PHILADELPHIA, PA

SRDC FISHING DOCK REHABILITATION

EXISTING PIER ELEVATION & SECTION

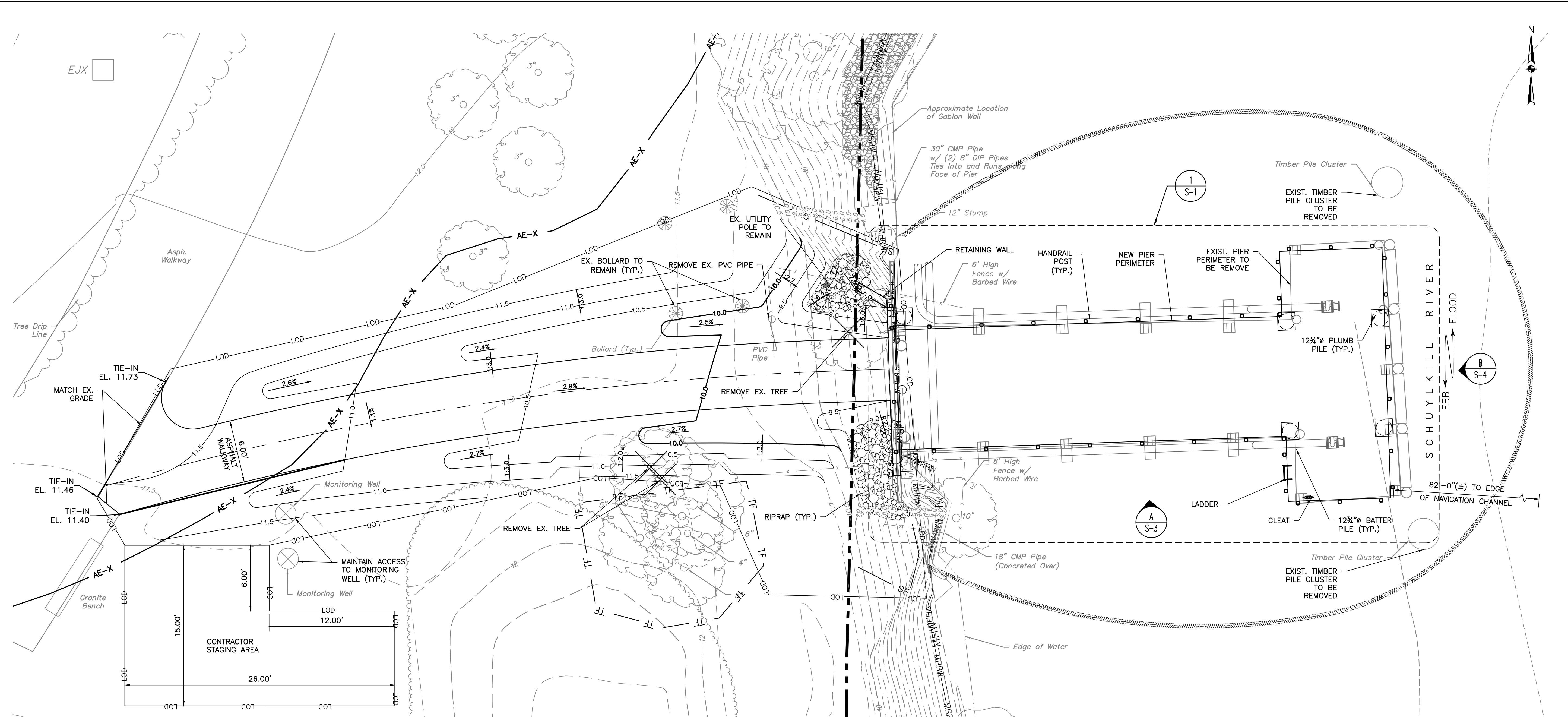
SCALE: AS NOTED DESIGN BY: MP
DATE: 08/31/21 APPROVED BY: MGR
DRAWN BY: MP
CHECKED BY: PB

PROJECT NO: 2019610049.000
SHEET NUMBER: **EX-3**

DATE PRINTED: 9/17/2021 1:48:32 PM

ISSUED FOR BID

T:\PROJECTS\ON-GOING\2019 PROJECTS\2019610049.000 - SRDC FISHING PIER FEASIBILITY STUDY\WORKDRAWINGS\DRAWINGS\CURRENT\EX-3 EXISTING PIER CONDITION PLAN.DWG



PROPOSED SITE PLAN



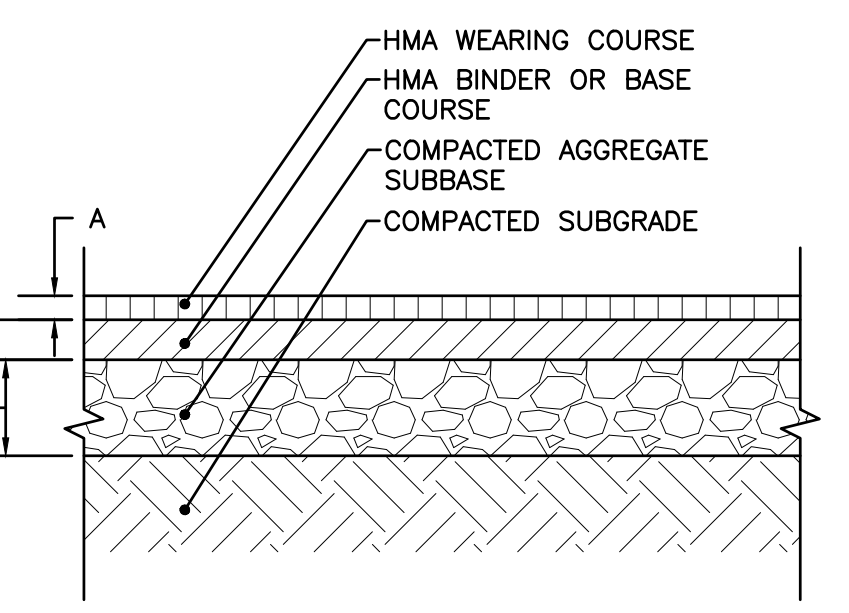
ELEVATIONS:

+12.38'	DESIGN FLOOD ELEVATION (DFE)
+10.88'	FEMA 100 YR. FLOOD ELEVATION (BFE)
+4.90'	CITY DATUM
+3.31'	MEAN HIGH HIGH WATER (MHHW)
+2.81'	MEAN HIGH WATER (MHW)
+0.00'	NAVD-88
-1.12'	NGVD-29
-3.29'	MEAN LOW WATER (MLW)

(NOT TO SCALE)

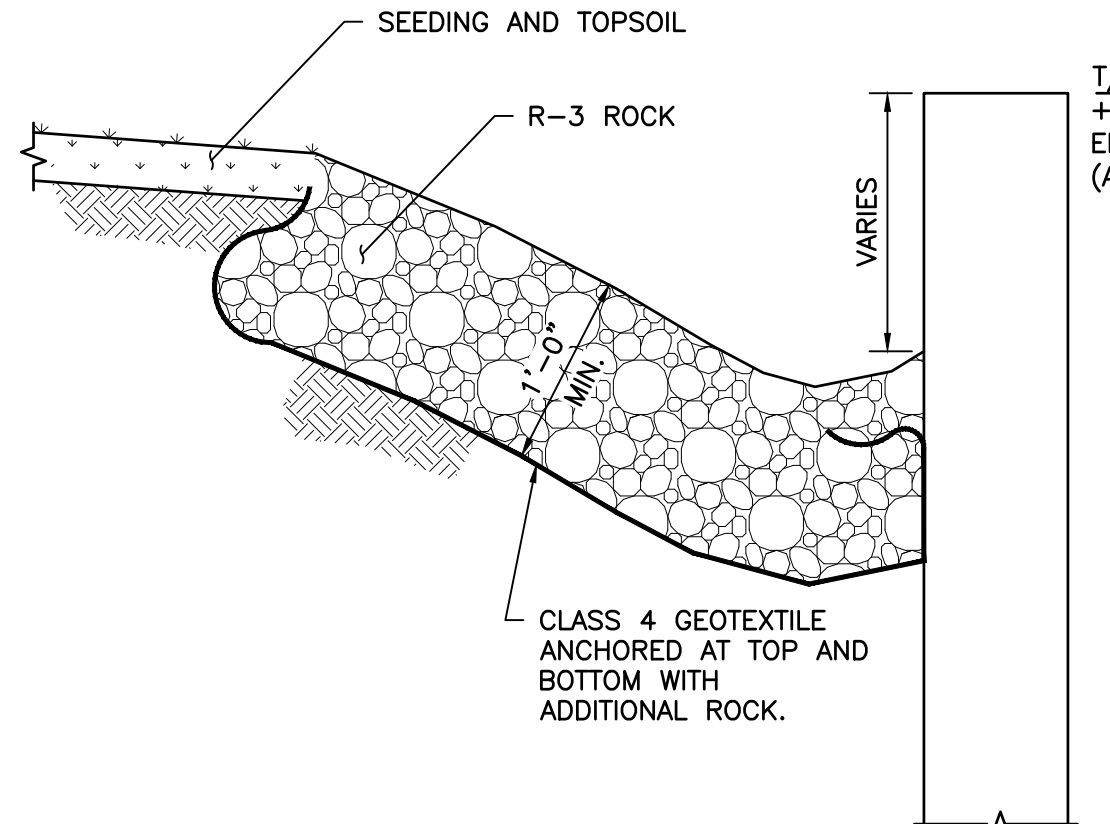
LEGEND:

— AE-X —	SPECIAL FLOOD HAZARD ZONE AE/X BOUNDARY FROM FEMA FIRM #4207570179G	— LOD —	LIMIT OF LAND DISTURBANCE
— MHW —	MEAN HIGH WATER	— SF —	SILT FENCE
— MHHW —	MEAN HIGH HIGH WATER	— TF —	TREE PROTECTION FENCE
— FLOOD WAY BOUNDARY —	FLOOD WAY BOUNDARY FROM FEMA FIRM #4207570179G	[RIPRAP]	ROCK SLOPE STABILIZATION (RIPRAP)
— 25 —	EXISTING CONTOUR		
— 11.5 —	PROPOSED GRADE		
[TURBIDITY CURTAIN]	TURBIDITY CURTAIN		



THICKNESS	PATHWAY
1.5"	A-WEARING COURSE
3"	B-BINDER COURSE
6"	C-SUBBASE

TYPICAL ASPHALT PAVEMENT NOT TO SCALE



TYPICAL ROCK SLOPE STABILIZATION (RIPRAP) DETAIL NOT TO SCALE

NOTES:

1. THE CONTRACTOR SHALL NOT BE ALLOWED TO BLOCK OR DISRUPT TRAIL ACTIVITIES DURING CONSTRUCTION. ALL EQUIPMENT AND MATERIALS SHALL ARRIVE AND DEPART BY WATER.
2. FILL SHALL BE PLACED, IN ACCORDANCE WITH ASCE 24, IN 12" LIFTS, COMPACTED TO 95% OF ITS MAXIMUM STANDARD PROCTOR DENSITY.
3. ALL DISTURBED AREAS SHALL BE SEEDDED AT THE COMPLETION OF CONSTRUCTION WORK.

ISSUED FOR BID
DATE: 08/31/21

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P: 215.922.8080

URBAN ENGINEERS

SEAL

BY: _____
DATE: _____

PHILADELPHIA, PA

SCHUYLKILL RIVER DEVELOPMENT CORPORATION

SRDC FISHING DOCK REHABILITATION

PROPOSED SITE PLAN

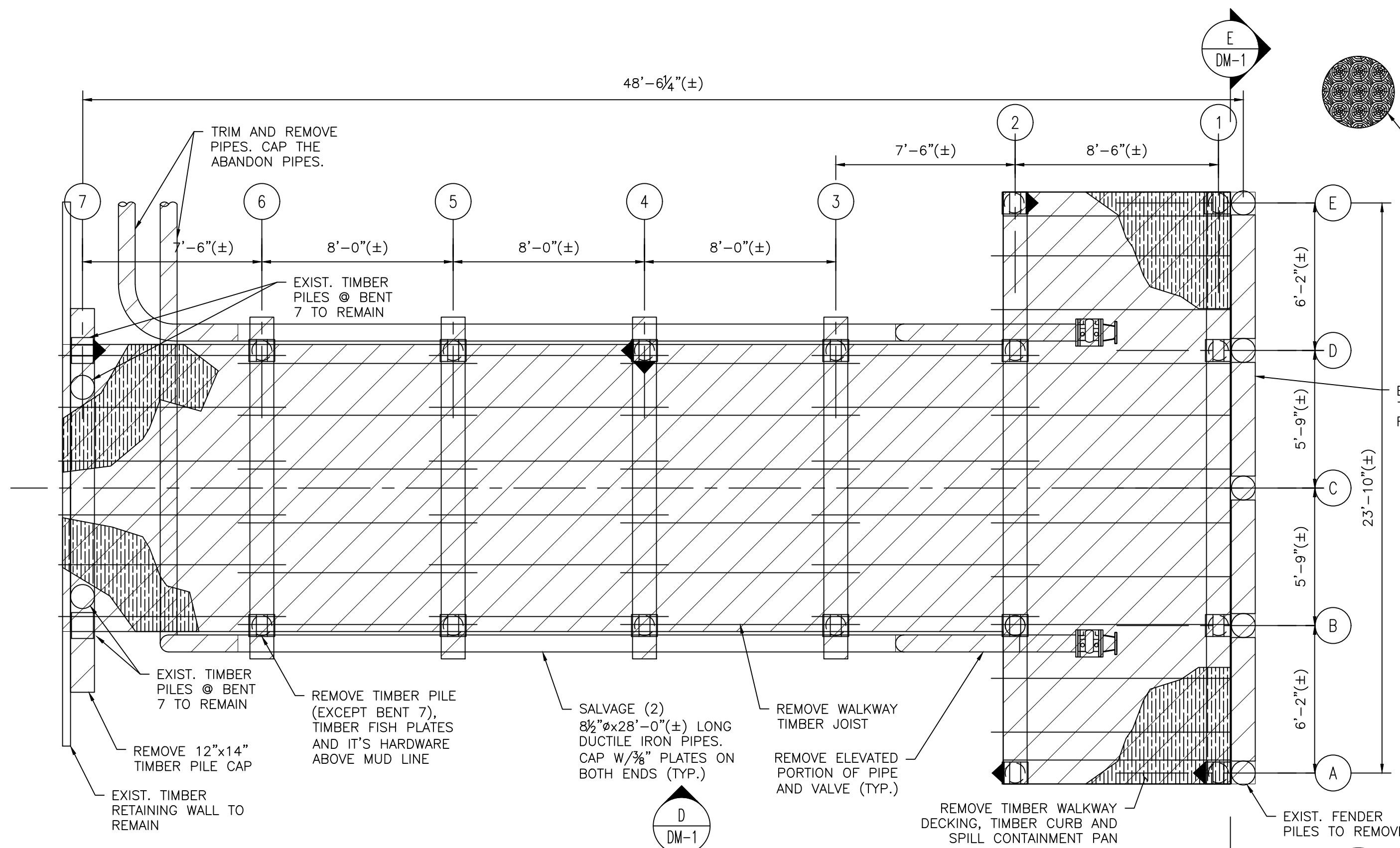
REV	DATE	BY	DESCRIPTION
0	08/31/21	ISSUED FOR BID	

SCALE: AS NOTED	DESIGN BY: PJC
DATE: 08/31/21	APPROVED BY: MGR
PROJECT NO: 2019610049.000	DRAWN BY: PJC
SHEET NUMBER: CV-1	CHECKED BY: MT
SIT. NO: 7 of 18	REV. NO: 0
DRAWING FILE NO: CV-1... DWG	

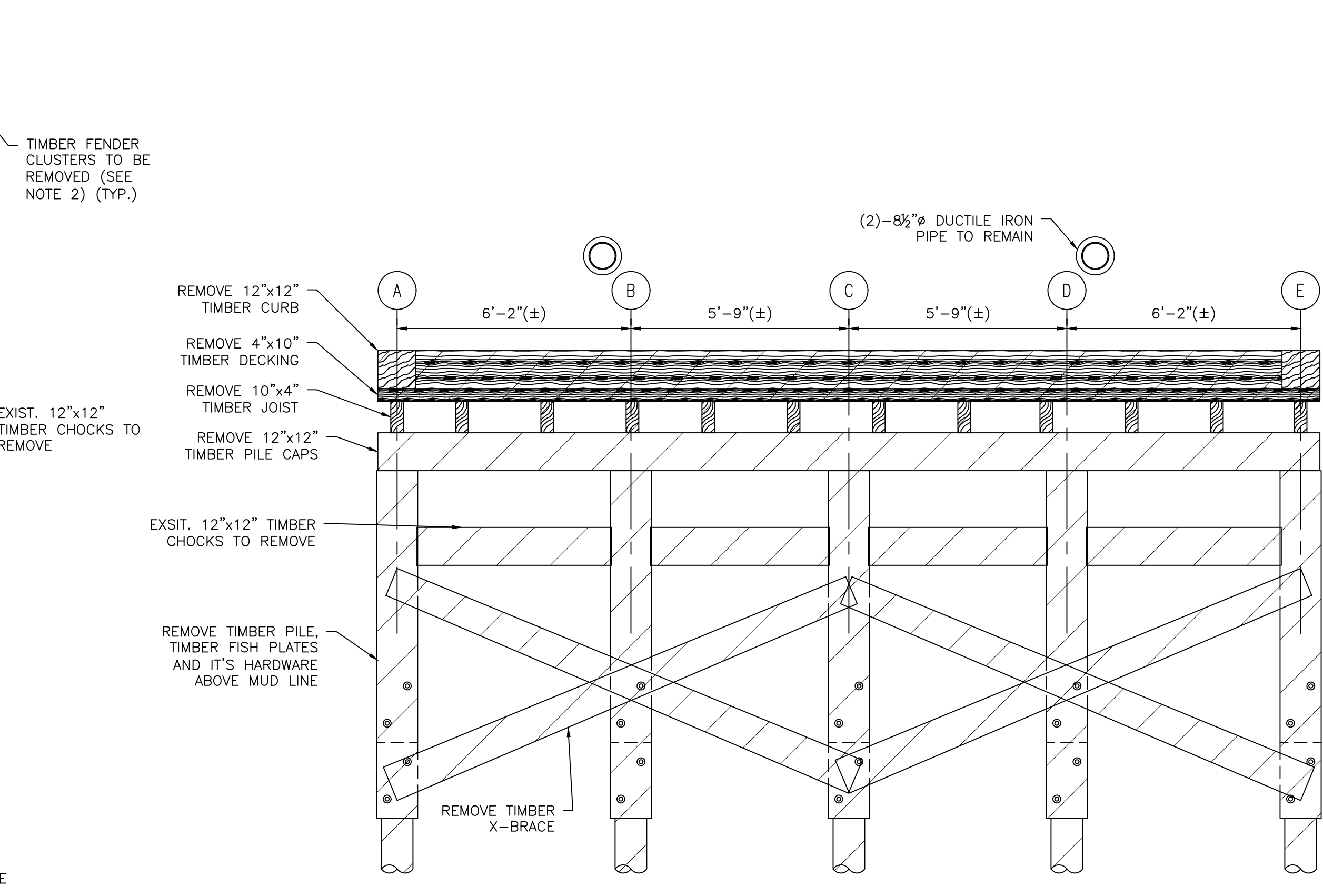
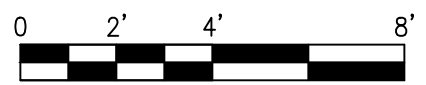
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DATE PRINTED: 9/17/2021 1:48:44 PM

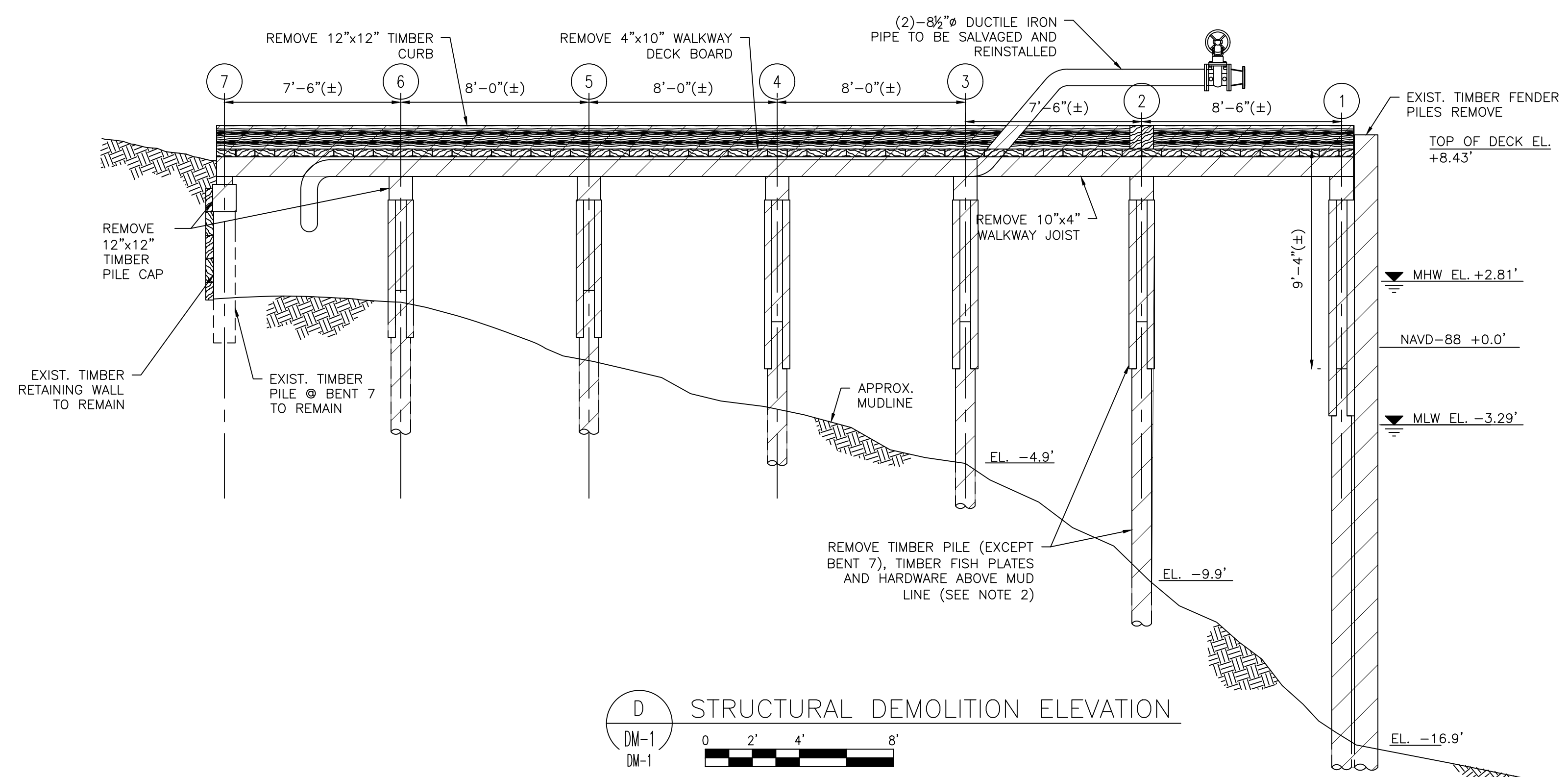
ISSUED FOR BID



STRUCTURAL DEMOLITION PLAN



STRUCTURAL DEMOLITION SECTION



STRUCTURAL DEMOLITION ELEVATION



LEGEND:

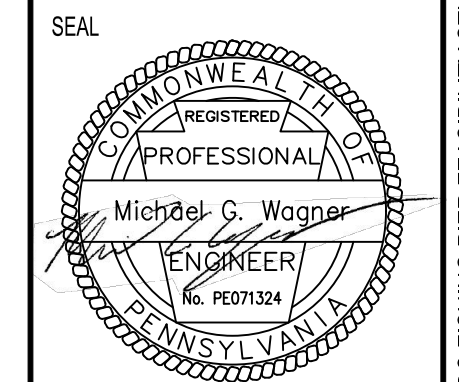
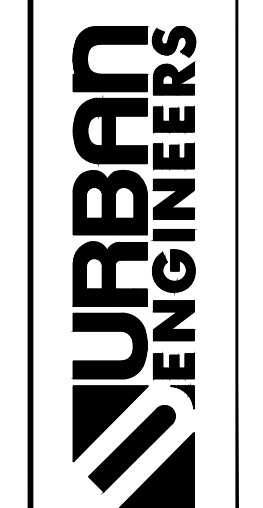
- EXISTING
- ▨ DEMOLITION

NOTES:

1. FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.
2. WITH THE EXCEPTION OF THE PILES IN BENT 7, ALL PILES ARE TO BE EXTRACTED IN THEIR ENTIRETY. IF EXTRACTION PROVES TO BE IMPOSSIBLE CONTRACTOR TO CUT PILE OFF AT MUDLINE AND FIELD SURVEY THE LOCATION OF THE CUT PILE AND LOCATE REMAINING PILE ON THE AS-BUILT DRAWINGS.
3. THE TWO EXISTING PIPELINES ARE INTENDED TO BE REINSTALLED. IT WILL BE ACCEPTABLE TO TEMPORARILY SUPPORT THESE PIPELINES ON FALSEWORK OR PERMANENT WORK DURING DEMOLITION. IT IS ALSO ACCEPTABLE TO REMOVE AND STORE THEM DURING DEMOLITION AND CONSTRUCTION AND REINSTALL THEM. DEMOLITION OR TO TEMPORARILY REMOVE THEM AND REINSTALL THEM. THESE PIPELINES HAVE BEEN DRAINED, BUT MAY NOT HAVE BEEN FLUSHED.
4. SAVE THE THREE LONGEST EXTRACTED TIMBER PILES FOR REUSE AS SOLDIER PILES AT THE WINGWALL (SEE S-7).
5. WITH THE EXCEPTION OF THE PILES SAVED FOR WINGWALL SOLDIER PILES, ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE, BY WATER, AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS. MATERIAL MAY NOT BE LEFT AS DEBRIS ON THE MUDLINE.

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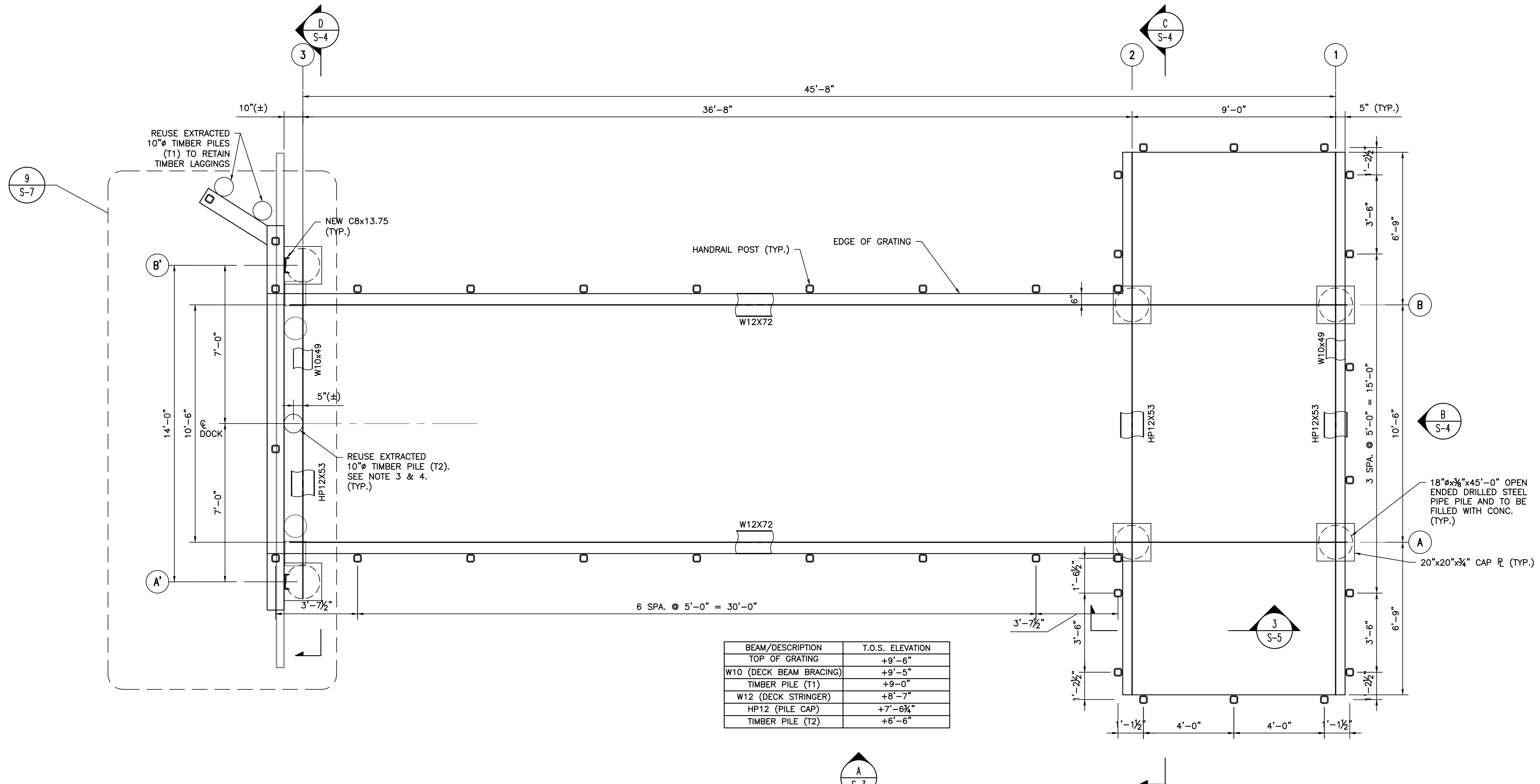
BY: _____
 DATE: _____

REV	DATE	BY	DESCRIPTION
0	08/31/21	ISSUED FOR BID	

SCHUYLKILL RIVER DEVELOPMENT CORPORATION
 PHILADELPHIA, PA
SRDC FISHING DOCK REHABILITATION
 DEMOLITION PLAN, ELEVATION & SECTION
 PROJECT NO: 2019610049.000
DM-1
 SHEET NUMBER

SCALE: AS NOTED	DESIGN BY: MP
DATE: 08/31/21	APPROVED BY: MGR
	DRAWN BY: MP
	CHECKED BY: PB

SHIT NO: 8 OF 18
 DRAWING FILE NO: EX-2...DWG
 REV. NO: 0



1 PROPOSED PILE PLAN (AT EL. +8'-6 3/4")



NOTES:

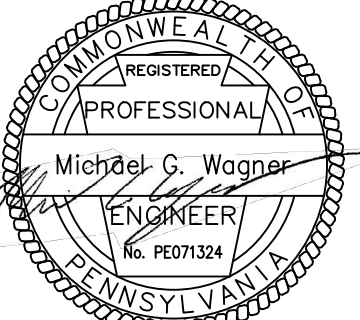
- FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.
- HANDRAILS NOT SHOWN FOR CLARITY.
- TIMBER PILES TO BE REUSED SHALL BE EVALUATED BY THE ENGINEER AFTER EXTRACTION AND BEFORE REUSE.
- REUSED TIMBER PILES SHALL BE VIBRATED TO THEIR FULL LENGTHS TO REACH THE TOP ELEVATION SHOWN ON SHEET S-7.

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DATE: 08/31/21

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SEAL



BY:

DATE:

REV	DATE	DESCRIPTION	BY	CHKD	APD
0	08/31/21	ISSUED FOR BID	PB	SMM	MCW

PHILADELPHIA, PA

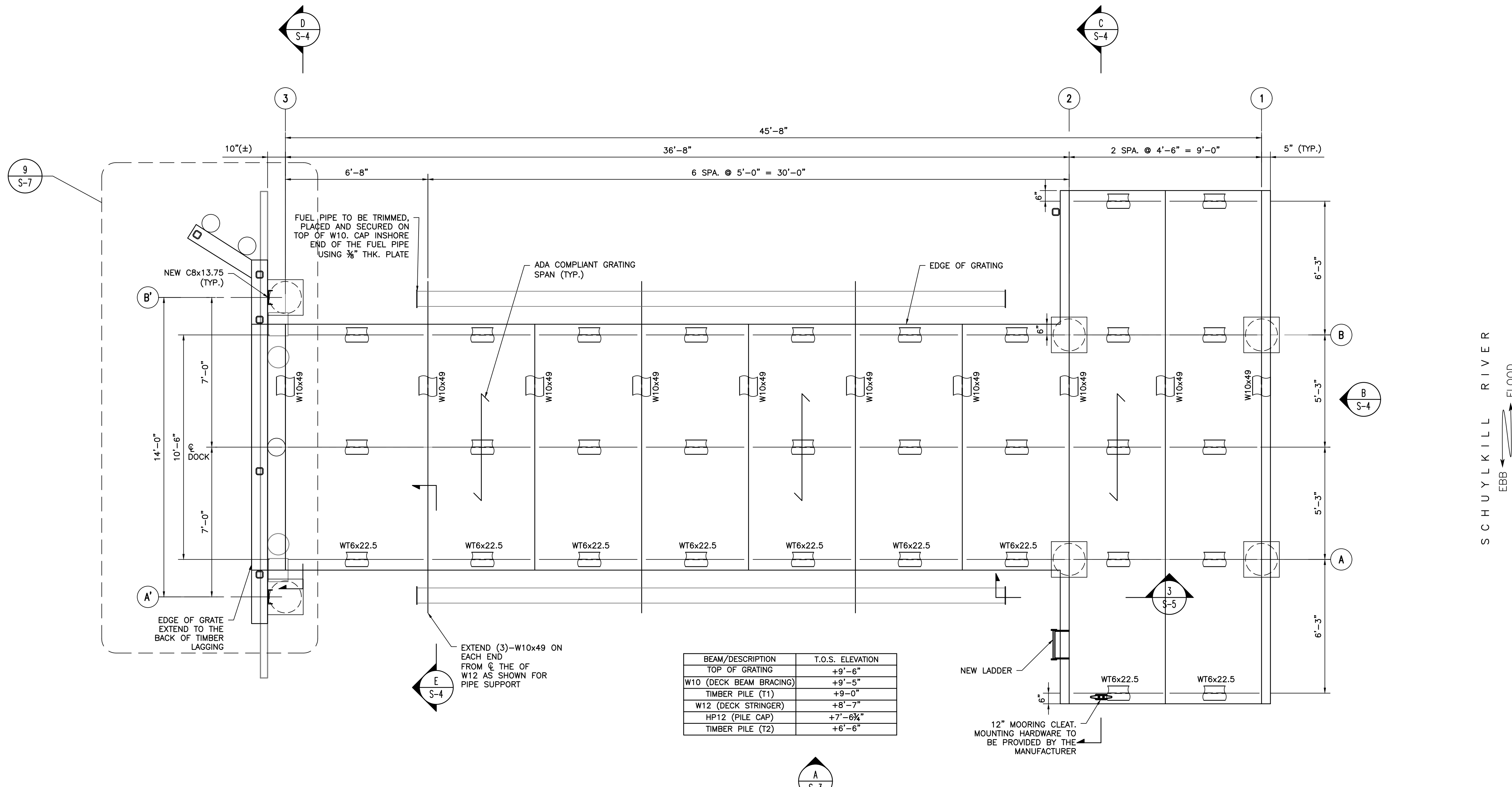
SCHUYLKILL RIVER DEVELOPMENT CORPORATION

SRDC FISHING DOCK REHABILITATION

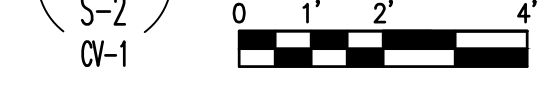
PROPOSED PILE PLAN

SCALE:	AS NOTED	DESIGN BY:	MP
DATE:	08/31/21	APPROVED BY:	MCW
PROJECT NO.:	2019610049.000	DRAWN BY:	MP
SHEET NUMBER:	S-1	CHECKED BY:	PB

SHEET NO.:	9	OF	18
DRAWING FILE NO.:	S-1 ... DWG	REV. NO.:	0



1 PROPOSED FRAMING PLAN (AT EL. +9'-9 3/4")

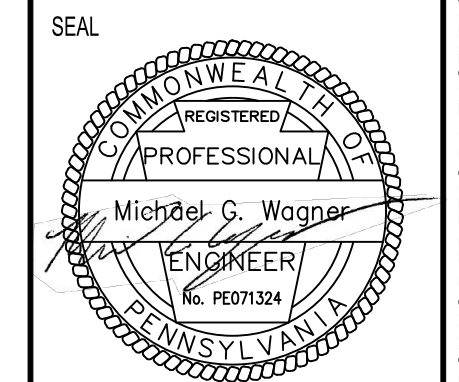
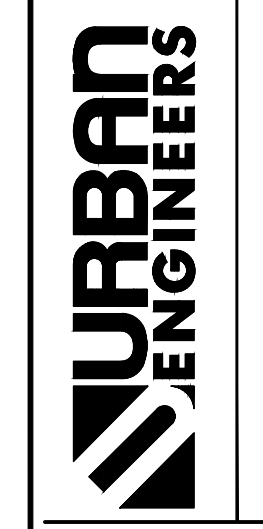


SCHUYLKILL RIVER
 EBB → FLOOD

- NOTES:**
- FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.
 - HANDRAILS NOT SHOWN FOR CLARITY.

ISSUED FOR BID
 DATE: 08/31/21

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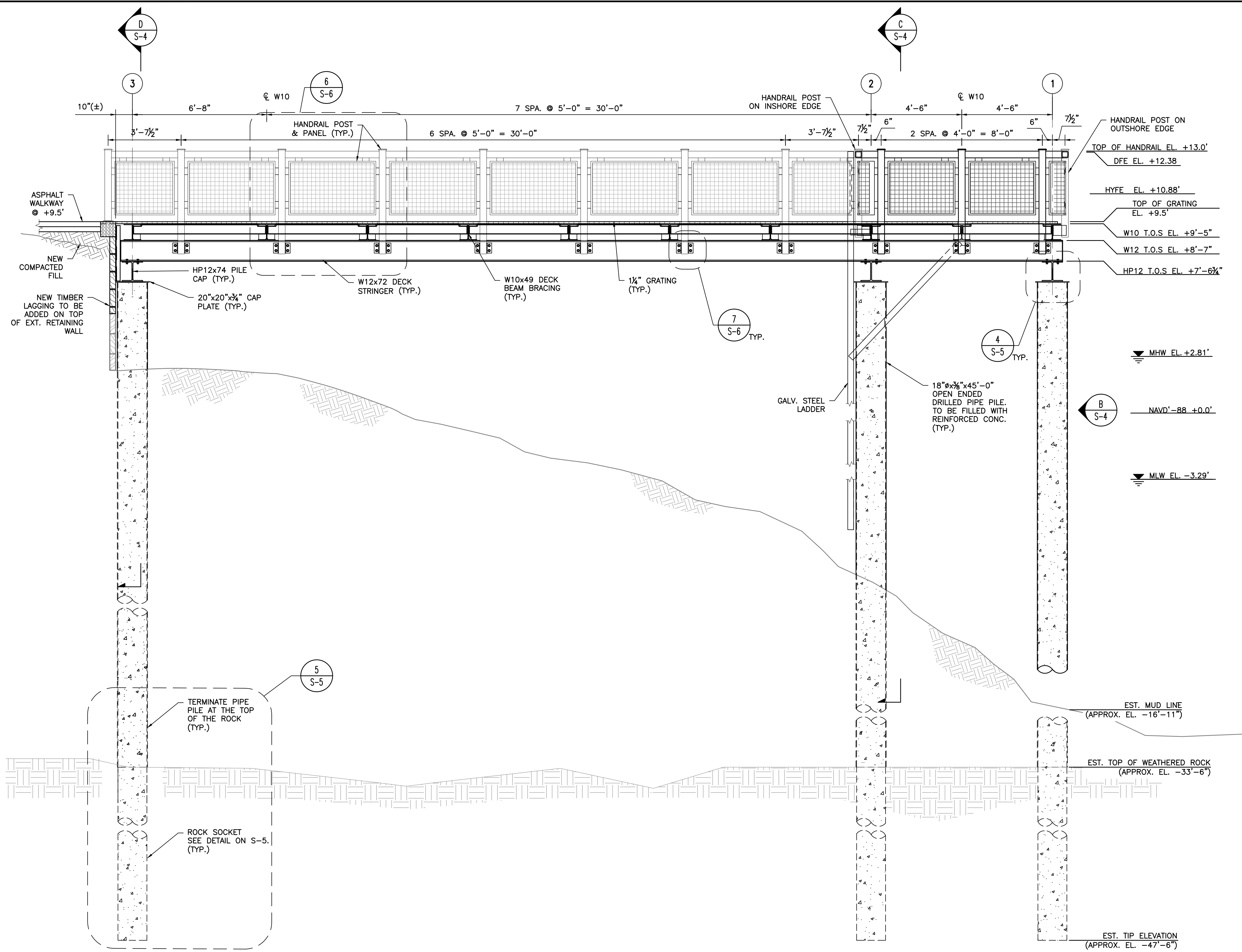
BY: [Signature]
 DATE:

REV	DATE	DESCRIPTION	BY	CHKD	APD
0	08/31/21	ISSUED FOR BID	PB	SMM	MCW

PHILADELPHIA, PA

SCHUYLKILL RIVER DEVELOPMENT CORPORATION
 SRDC FISHING DOCK REHABILITATION
 PROPOSED FRAMING PLAN

SCALE: AS NOTED	DESIGN BY: MP
DATE: 08/31/21	APPROVED BY: MGR
PROJECT NO: 2019610049.000	DRAWN BY: MP
SHEET NUMBER: S-2	CHECKED BY: PB
SHEET NO: 10 OF 18	REV. NO: 0
DRAWING FILE NO: S-1DWG	

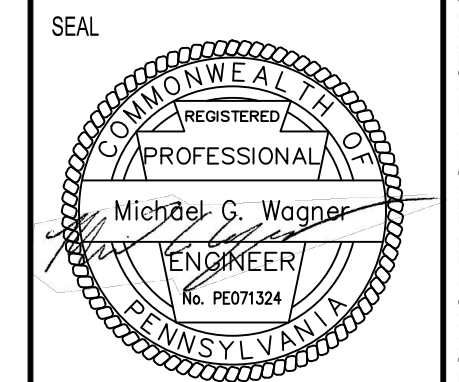
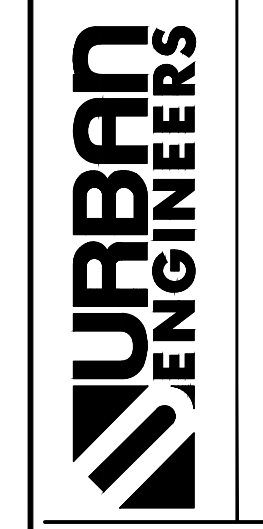


A DOWNRIVER ELEVATION
 S-3
 S-1
 0 1' 2' 4'

- NOTES:**
1. FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.
 2. EXISTING PIPES AND VALVES NOT SHOWN FOR CLARITY.
 3. FILL SHALL BE PLACED, IN ACCORDANCE WITH ASCE 24, IN 12" LIFTS, COMPACTED TO 95% OF ITS MAXIMUM STANDARD PROCTOR DENSITY.
 4. LADDER NOT SHOWN FOR CLARITY.

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 DATE: 08/31/21

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BY: _____
 DATE: _____

REV	DATE	BY	DESCRIPTION
0	08/31/21	SMW	ISSUED FOR BID
		CKD	
		APD	
		MCW	

SCHUYLKILL RIVER DEVELOPMENT CORPORATION PHILADELPHIA, PA

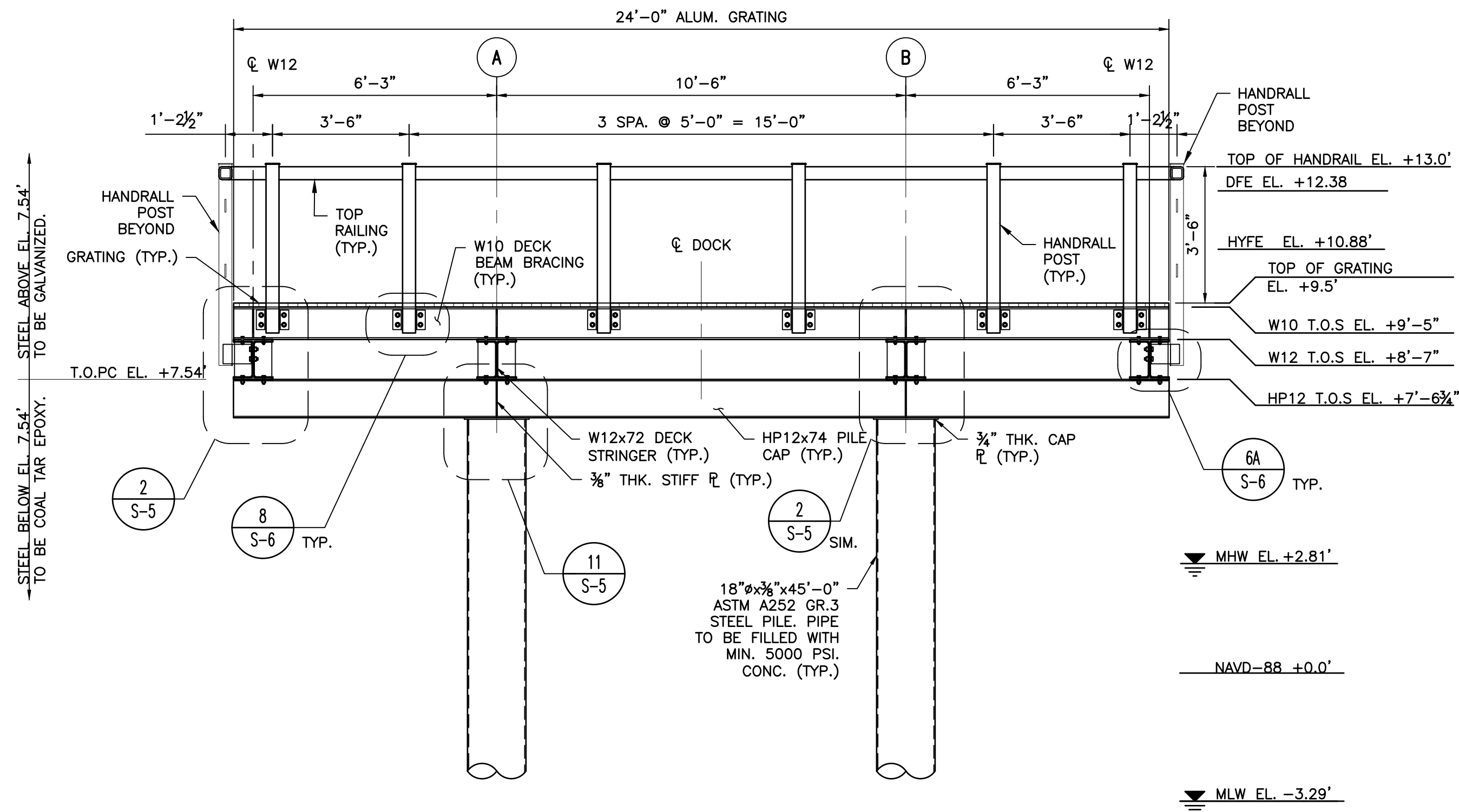
SRDC FISHING DOCK REHABILITATION

DOWNRIVER ELEVATION

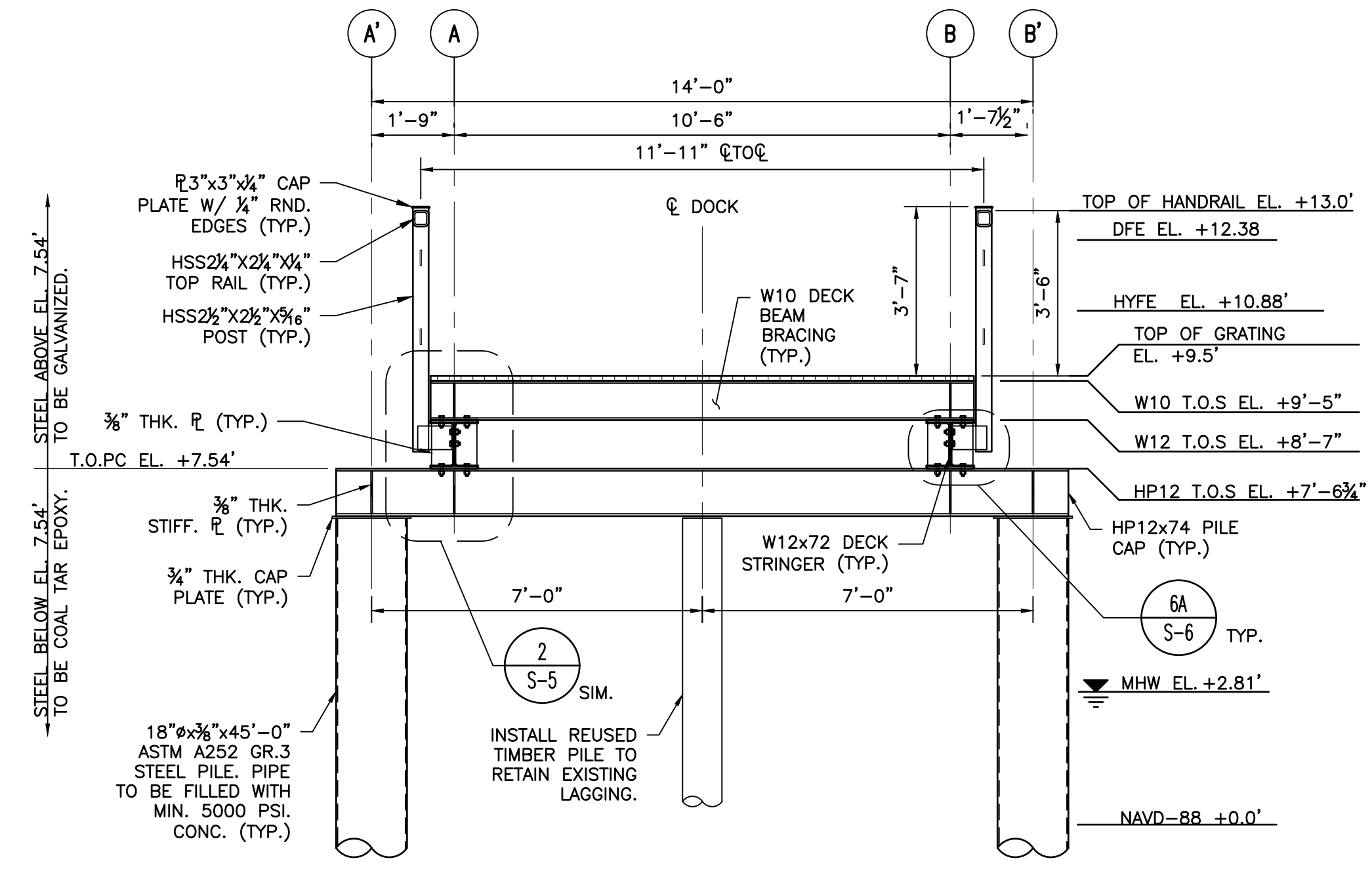
SCALE: AS NOTED
 DATE: 08/31/21
 PROJECT NO: 2019610049.000
 SHEET NUMBER: **S-3**

DESIGN BY: MP
 APPROVED BY: MGR
 DRAWN BY: MP
 CHECKED BY: PB

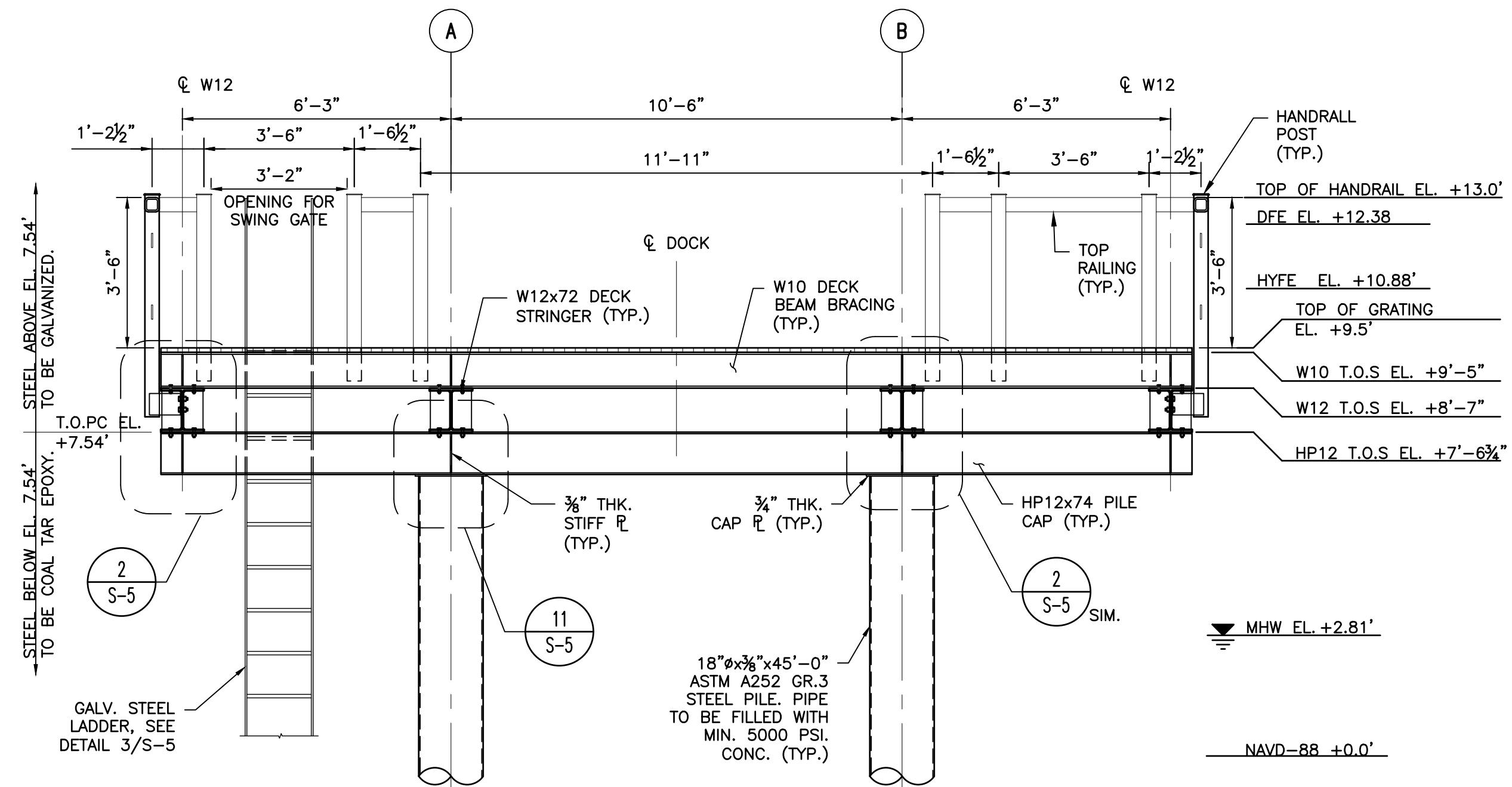
SHEET NO: 11 OF 18
 DRAWING FILE NO: S-1 ... DWG
 REV. NO: 0



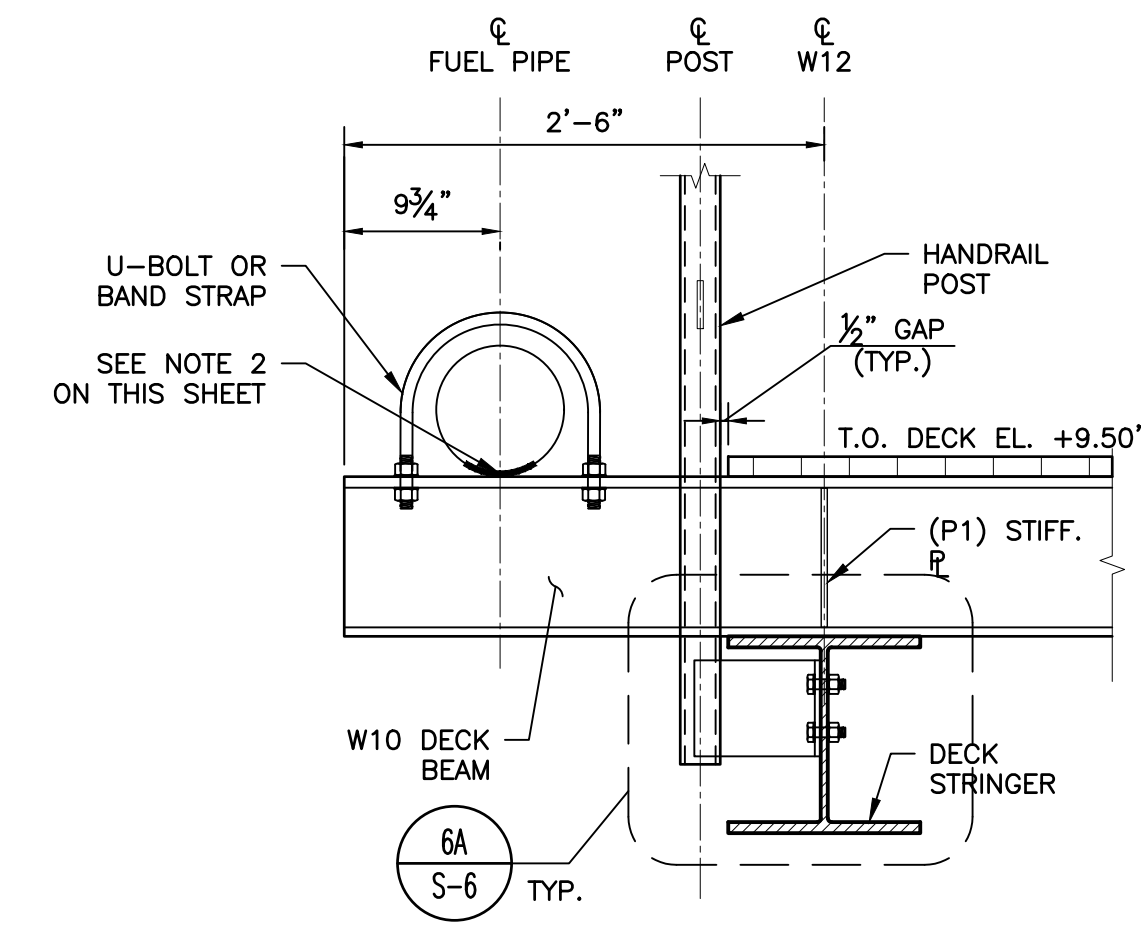
B OUTSHORE ELEVATION
 S-4 S-1
 0 1' 2' 4'
 HANDRAIL PANEL NOT SHOWN FOR CLARITY



D SECTION @ BENT 3
 S-4 S-1
 0 1' 2' 4'



C SECTION @ BENT 2
 S-4 S-1
 0 1' 2' 4'



E TYP. SECTION @ FUEL PIPE
 S-4 S-2
 0 1' 2'

- NOTES:**
- FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.
 - PROVIDE FRP SADDLE TYPE #180 OR ENGINEER APPROVED EQUAL AT EACH SUPPORT. SADDLES SHALL BE MIN. 9" LONG AND CENTERED ON THE SUPPORTS. EPOXY BOND SADDLE TO PIPE PER MANUFACTURERS RECOMMENDATION.
 - HANDRAIL PANEL NOT SHOWN FOR CLARITY.
 - EXISTING PIPES AND VALVES NOT SHOWN FOR CLARITY.

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 DATE: 08/31/21

530 Walnut Street
 Philadelphia, PA 19106-3485
 P. 215.922.8080

URBAN ENGINEERS

SEAL: MICHAEL C. WAGNER, REGISTERED PROFESSIONAL ENGINEER, PENNSYLVANIA, No. PE071324

BY: _____ DATE: _____

REV	DATE	DESCRIPTION
0	08/31/21	ISSUED FOR BID

PHILADELPHIA, PA

SCHUYLKILL RIVER DEVELOPMENT CORPORATION

SRDC FISHING DOCK REHABILITATION

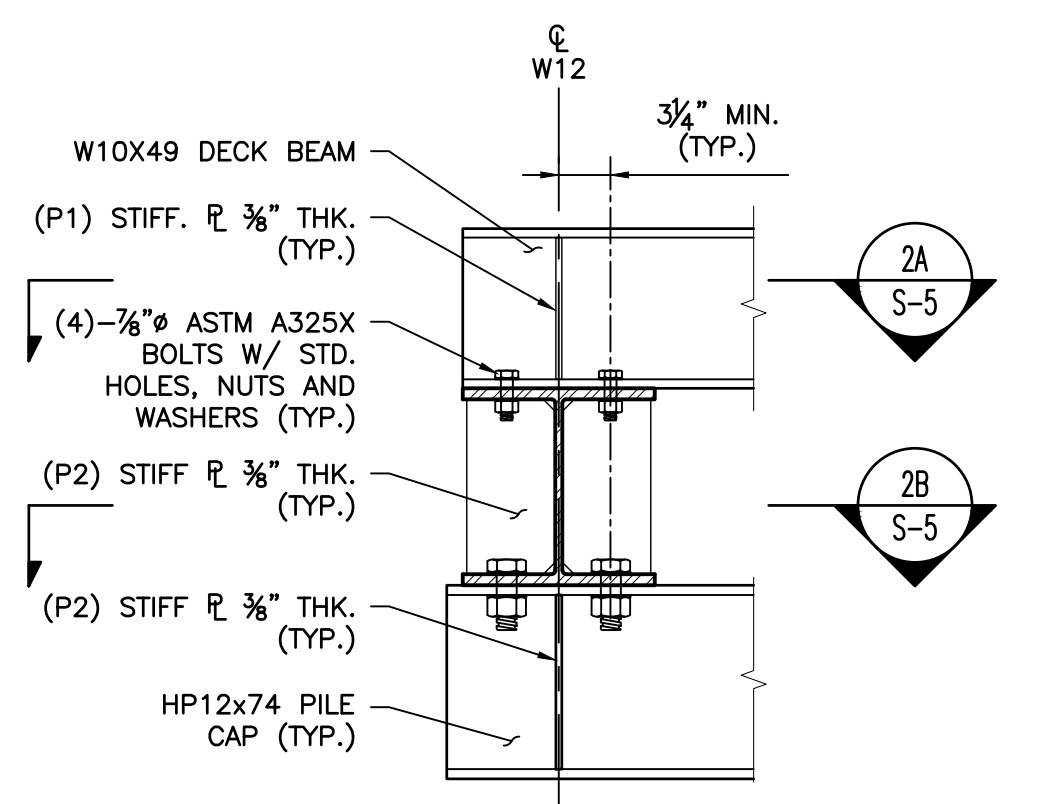
OUTSHORE ELEVATION AND SECTIONS

SCALE: AS NOTED
 DATE: 08/31/21
 PROJECT NO: 2019610049.000
 SHEET NUMBER: **S-4**

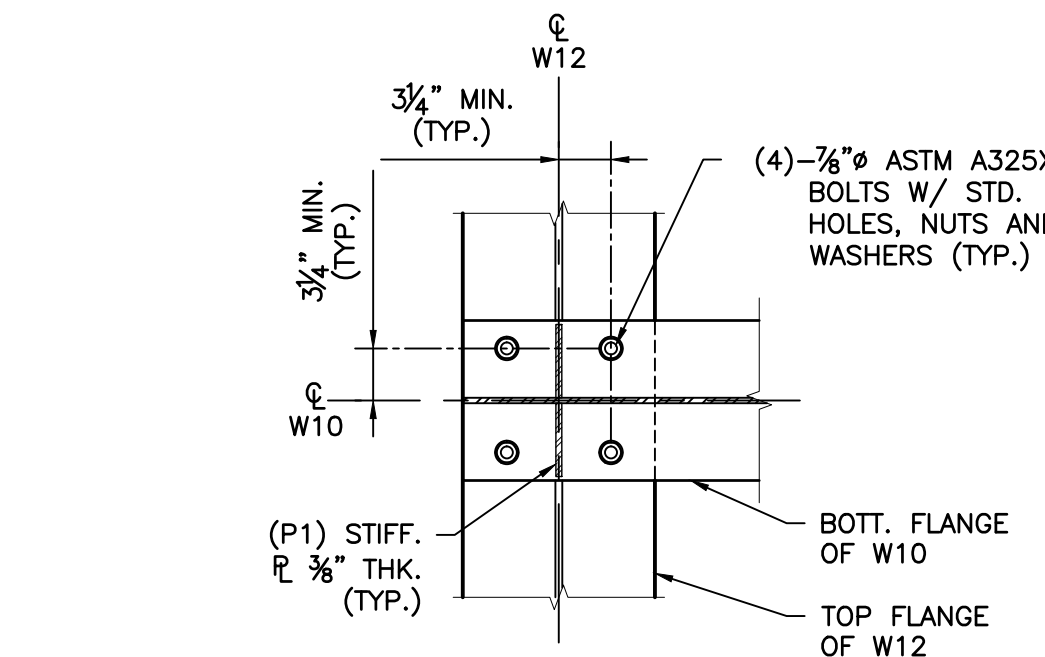
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 CHECKED BY: PB

SHEET NO: 12 OF 18
 DRAWING FILE NO: S-1DWG
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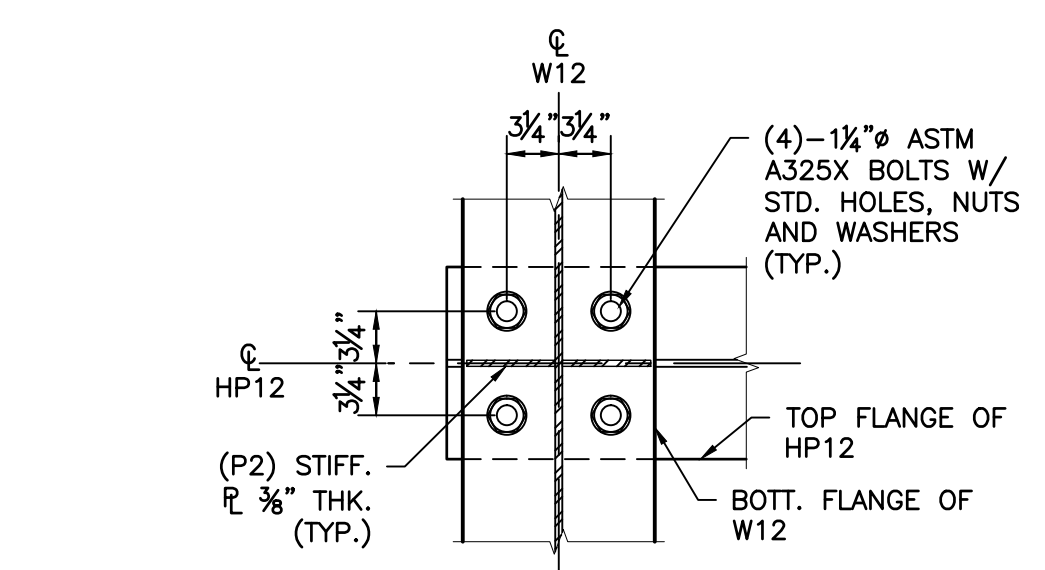
DATE PRINTED: 9/1/2021 1:52:29 PM
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 ISSUED FOR BID



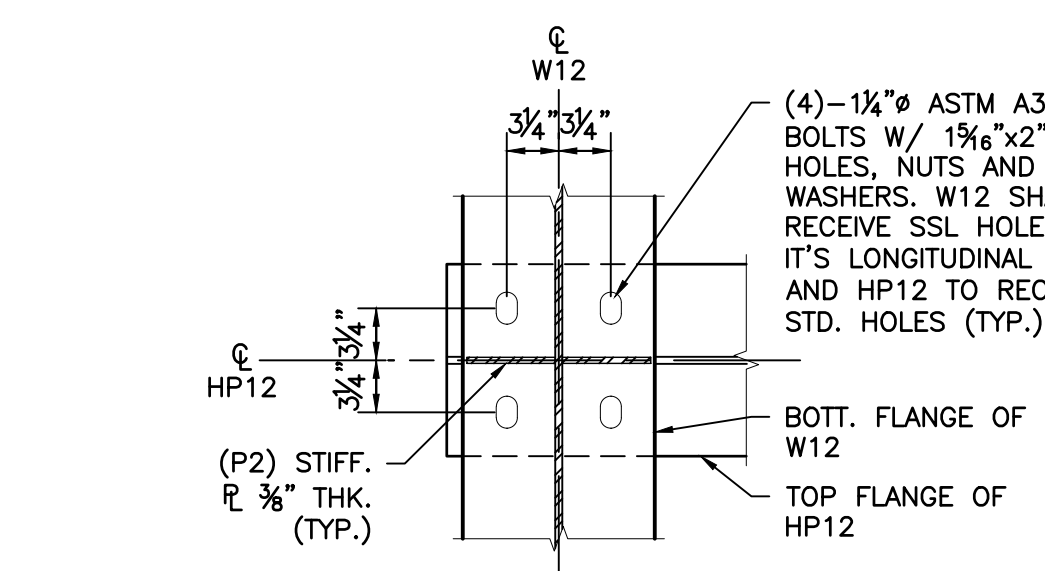
2 DETAIL
S-5 S-4



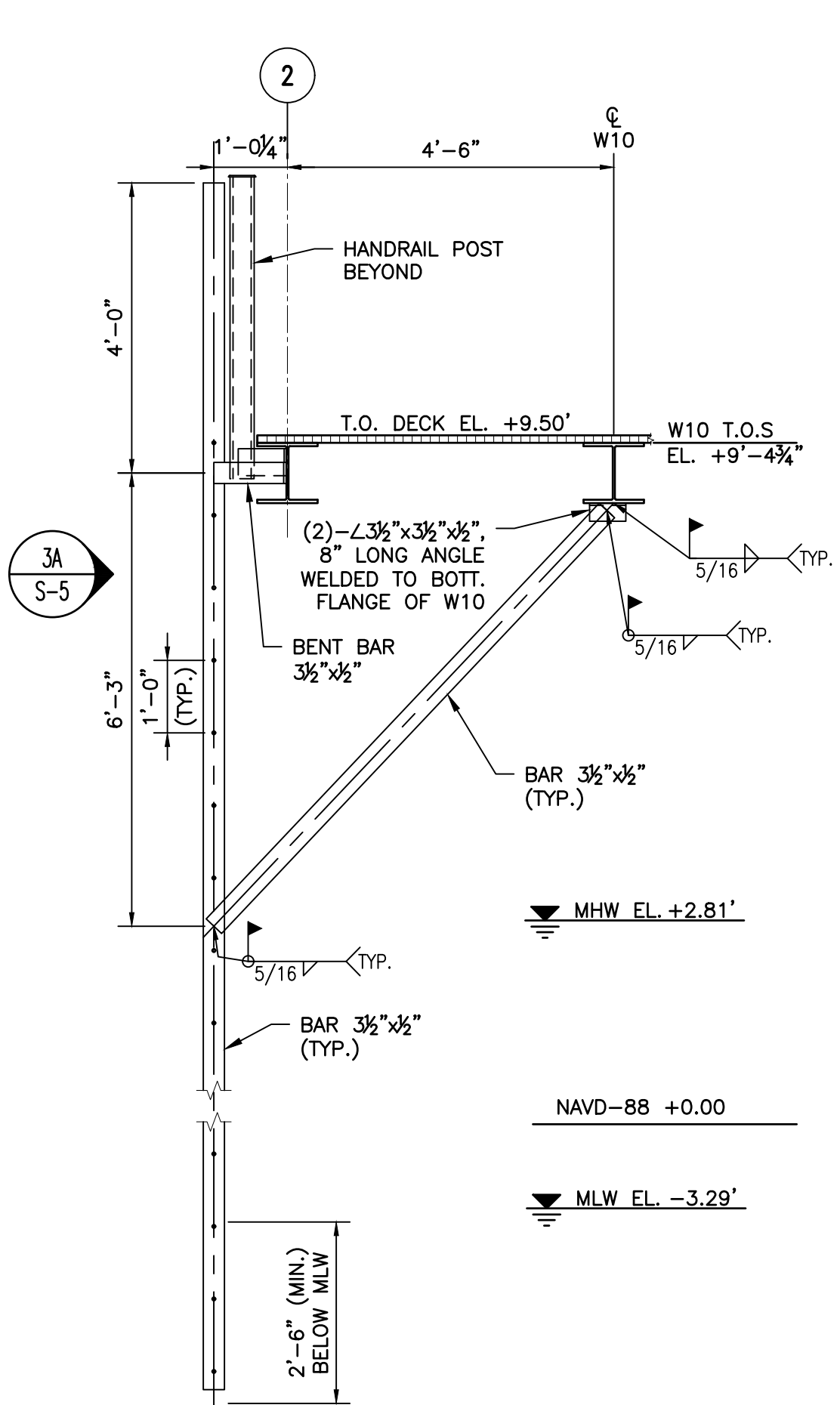
2A DETAIL
S-5 S-5



2B SECTION - FOR BENT 3 ONLY
S-5 S-5



2B SECTION - FOR BENT 1 & 2 ONLY
S-5 S-5



3 SECTION
S-5 S-4

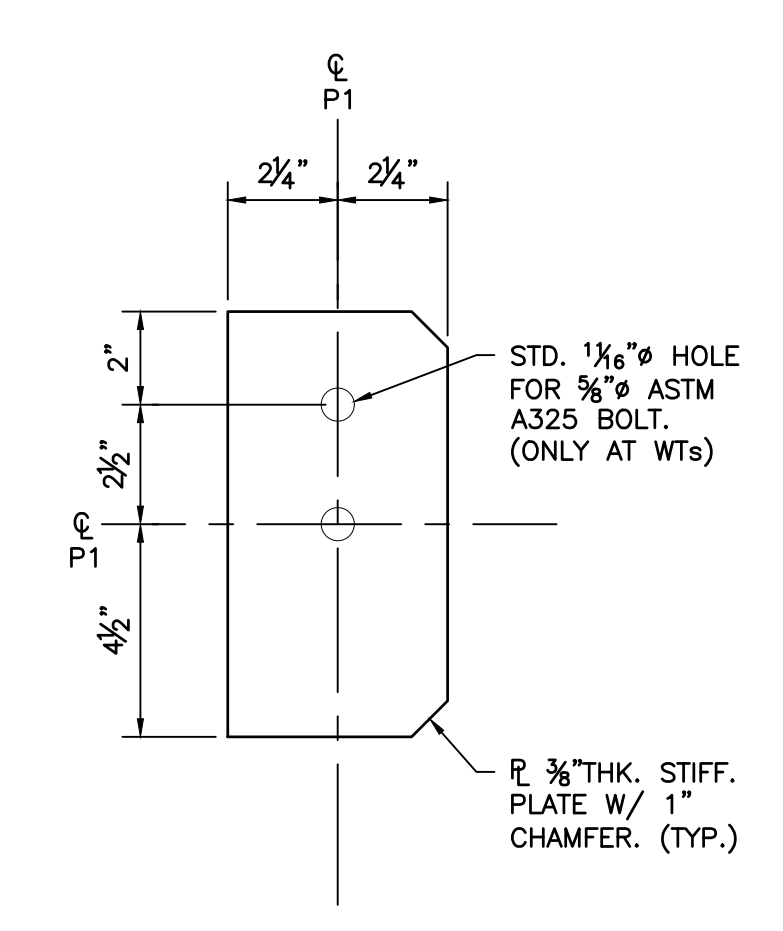


PLATE DETAIL - TYPE P1

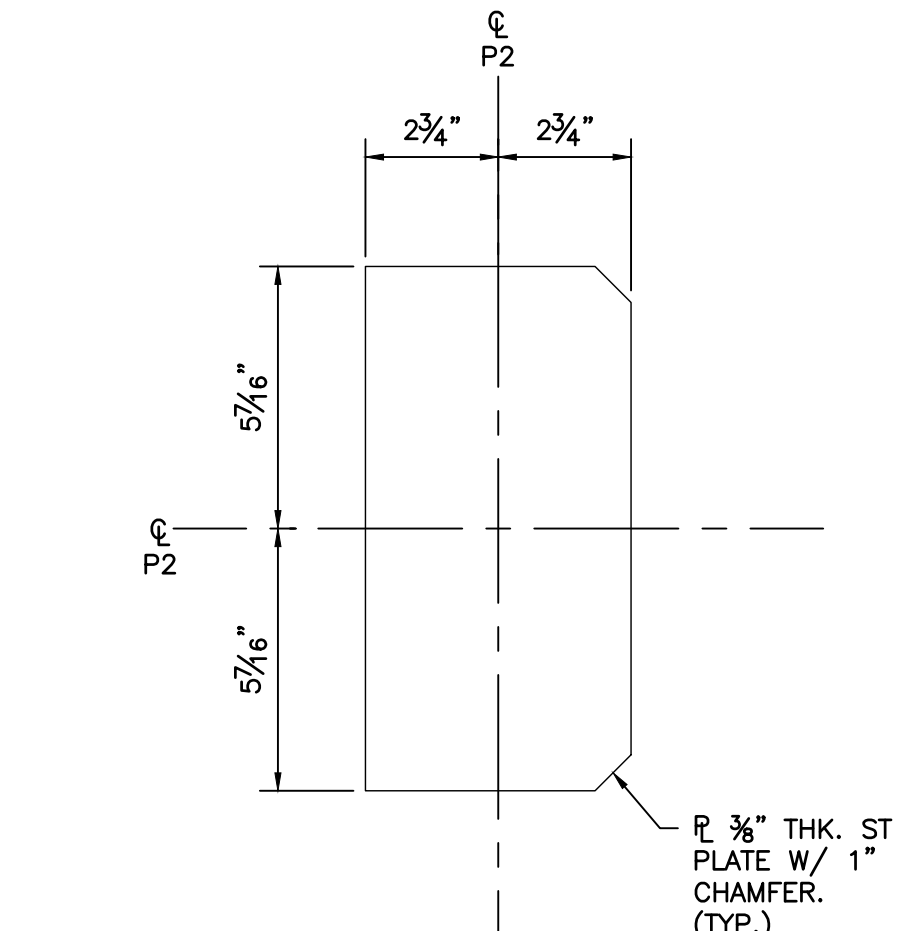
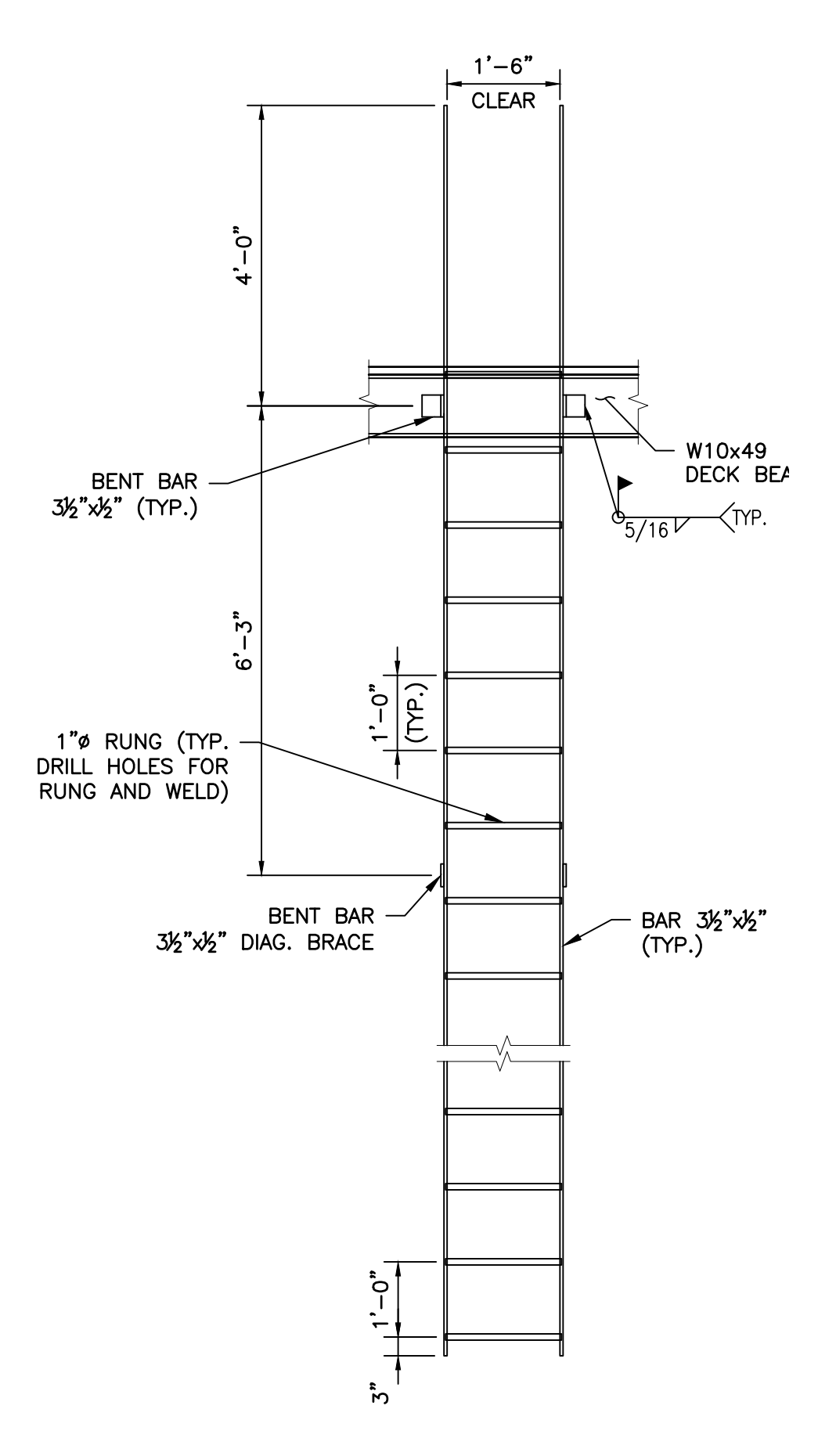
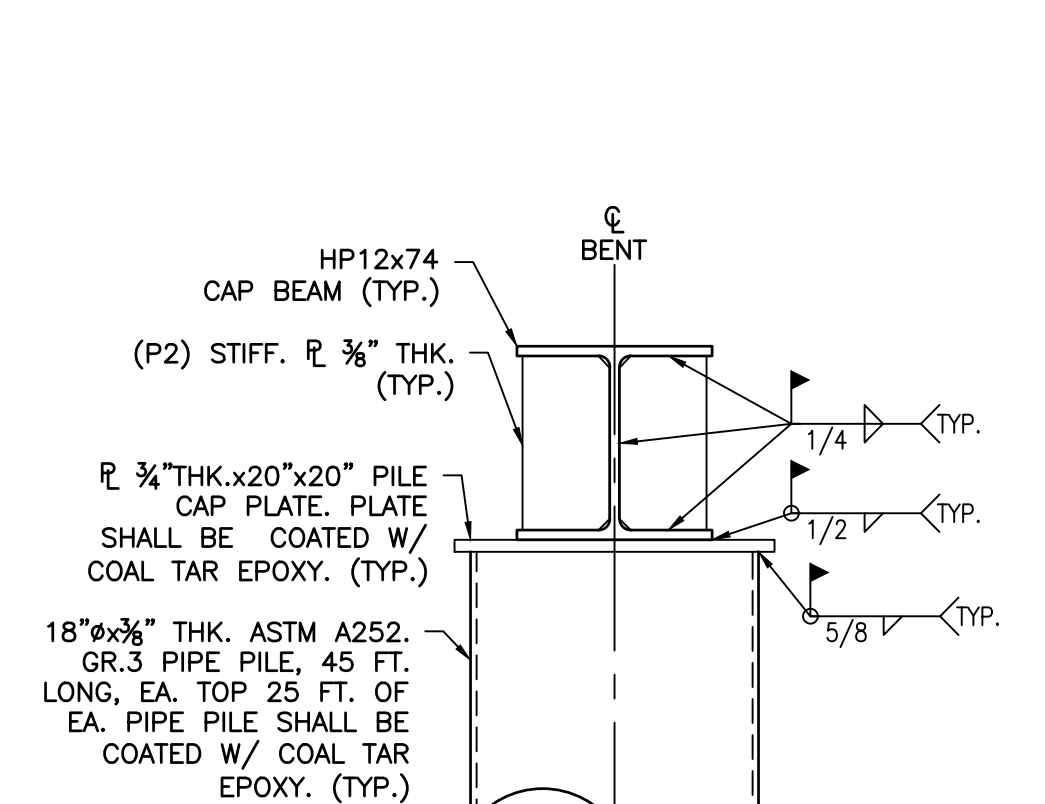


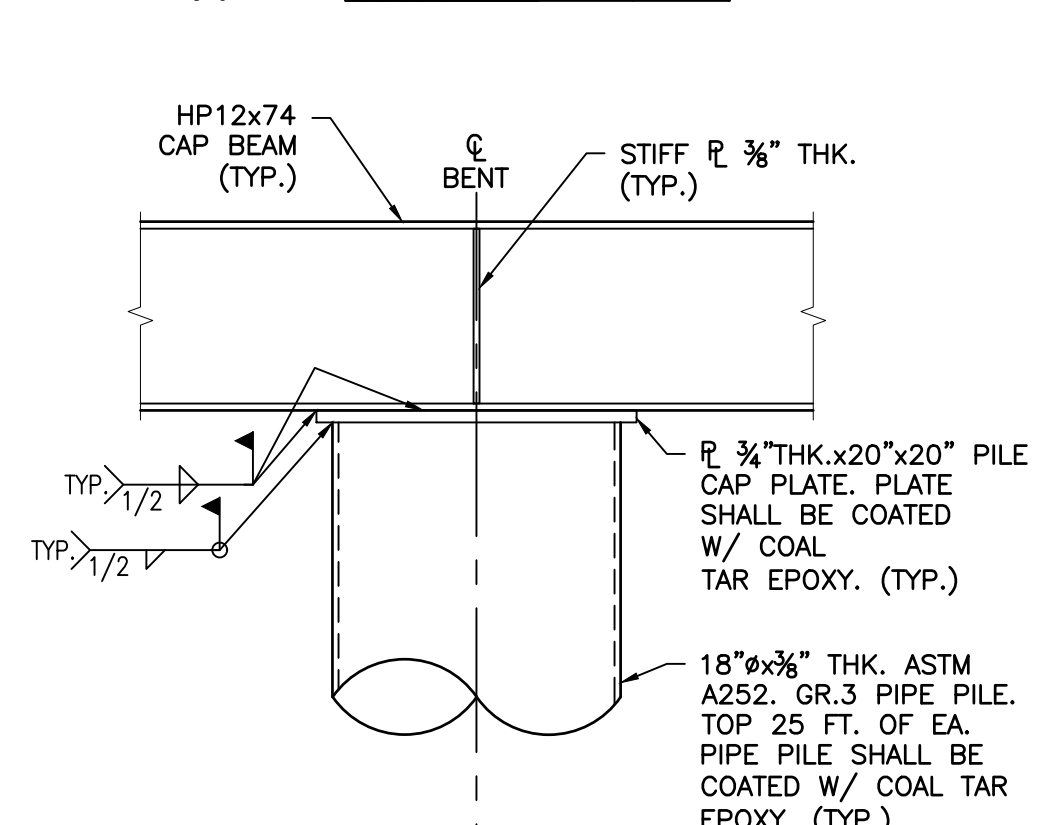
PLATE DETAIL - TYPE P2



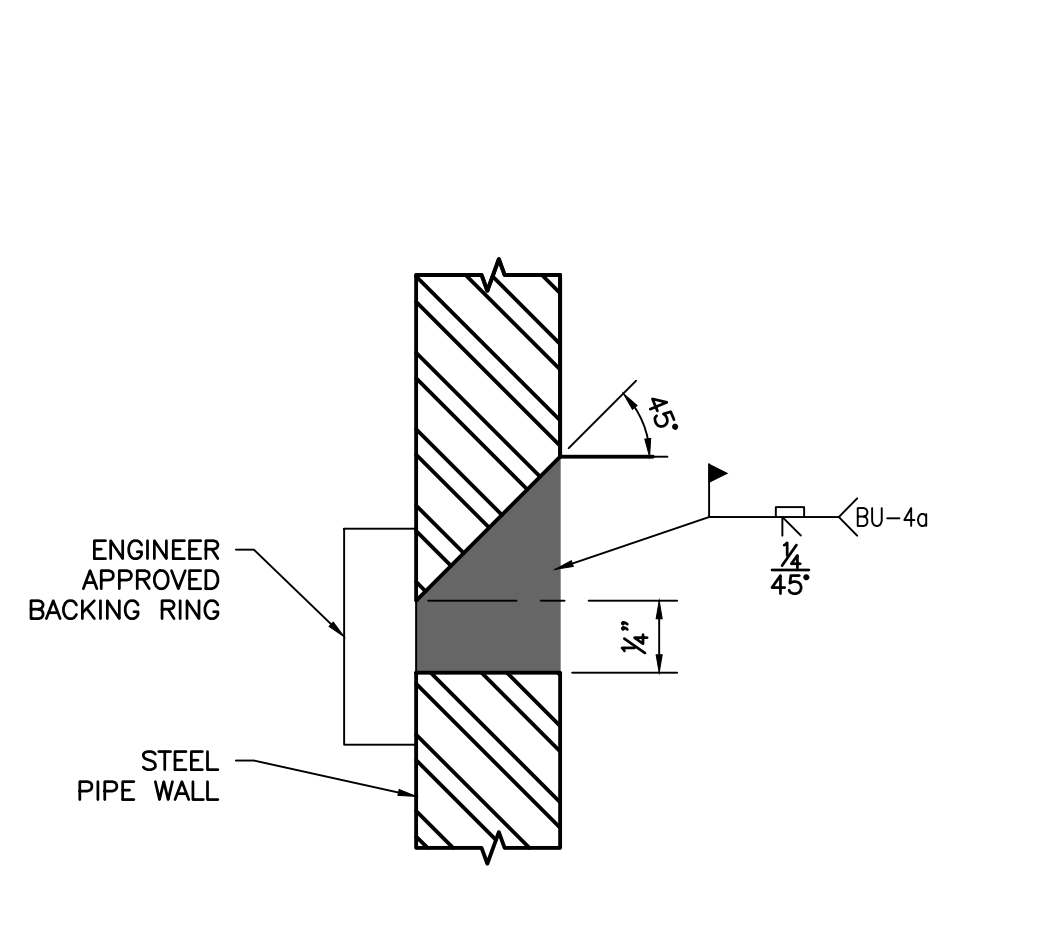
3A ELEVATION VIEW
S-5 S-4



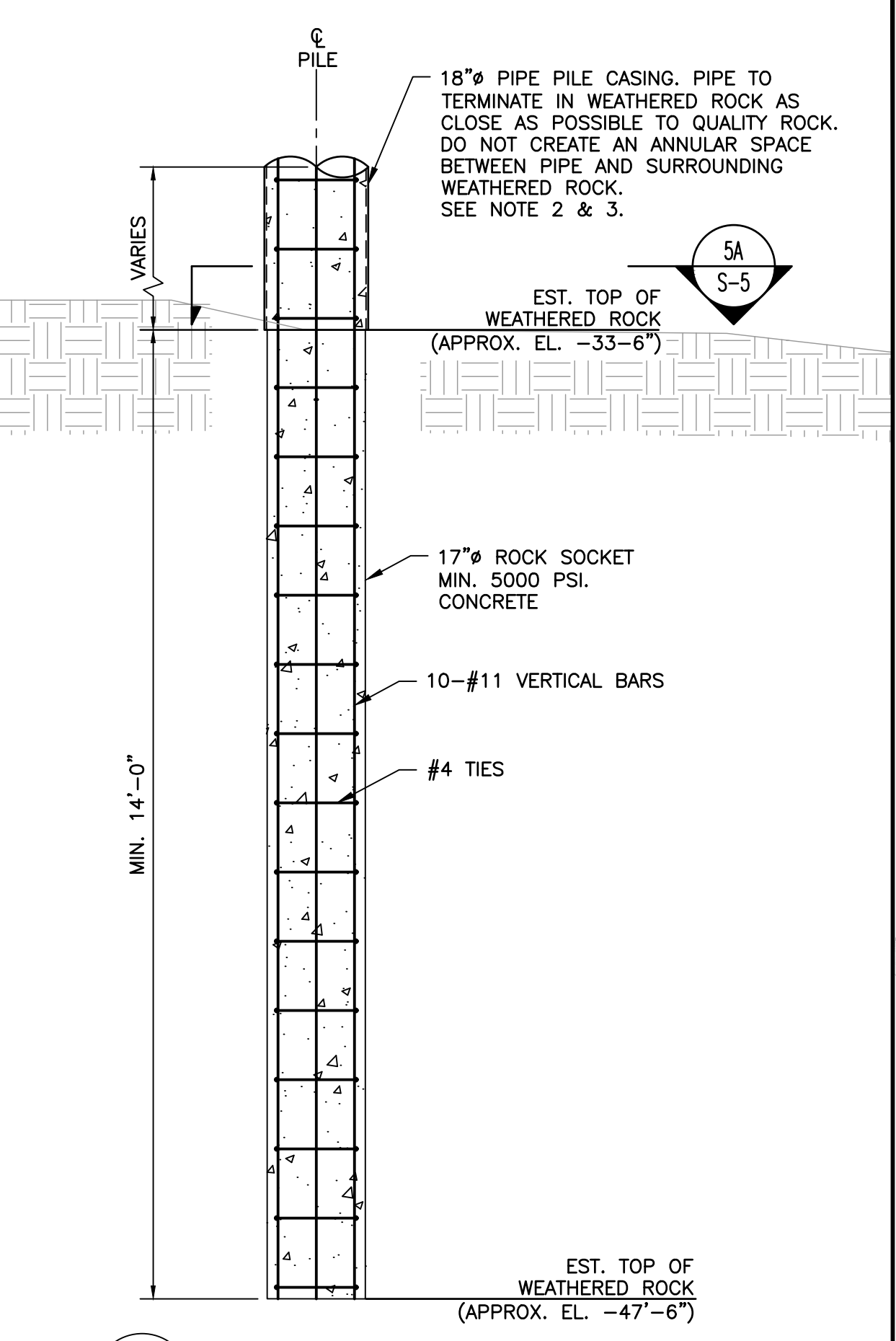
4 DETAIL
S-5 S-3



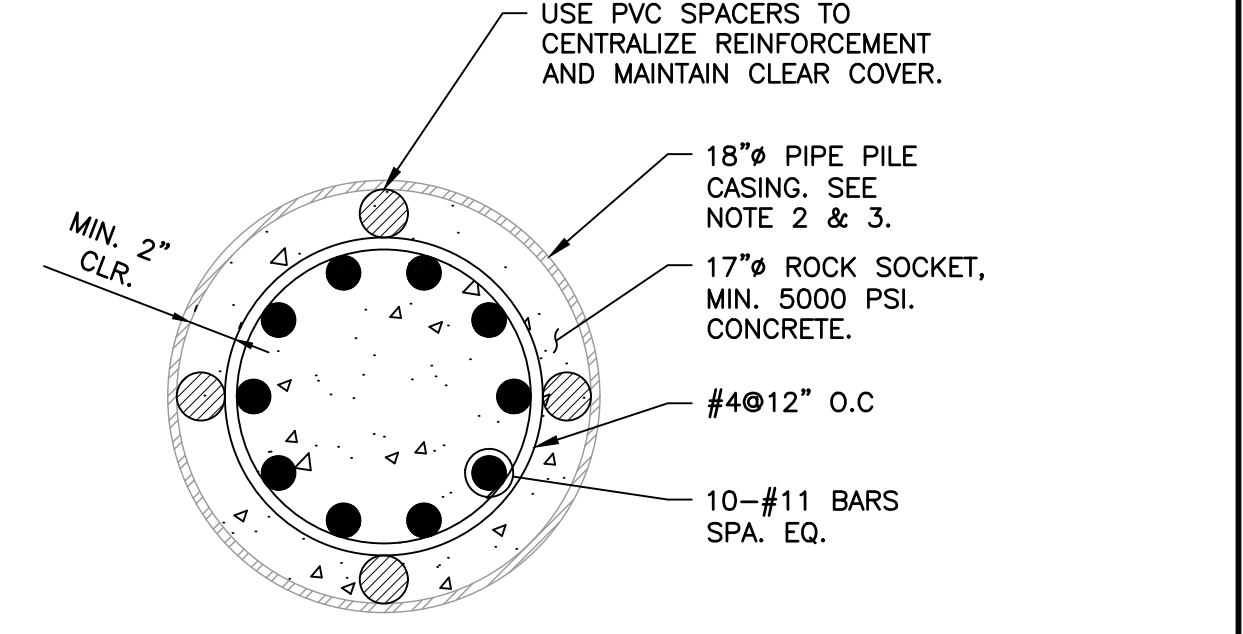
11 DETAIL
S-5 S-4



TYP. PILE SPLICE DETAIL



5 ROCK SOCKET DETAIL
S-5 S-3



5A SECTION
S-5 S-4

- NOTES:**
- FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.
 - THE CONTRACTOR MAY POUR A 1 FT. CONCRETE PLUG IN THE BOTTOM OF THE ROCK SOCKET FOR EASE OF CONSTRUCTION. IN THIS CASE, THE ROCK SOCKET MUST BE EXTENDED AN ADDITIONAL 1 FT. INTO THE QUALITY ROCK.
 - SPLICES SHALL NOT BE ALLOWED IN THE ROCK SOCKET CASING PIPE UNLESS APPROVED BY THE ENGINEER IN WRITING. NO SPLICE SHALL BE ALLOWED IN THE BOTTOM 30 FEET OF THE CASING.



BY: _____

DATE: _____

REV	DATE	DESCRIPTION
0	08/31/21	ISSUED FOR BID

PHILADELPHIA, PA

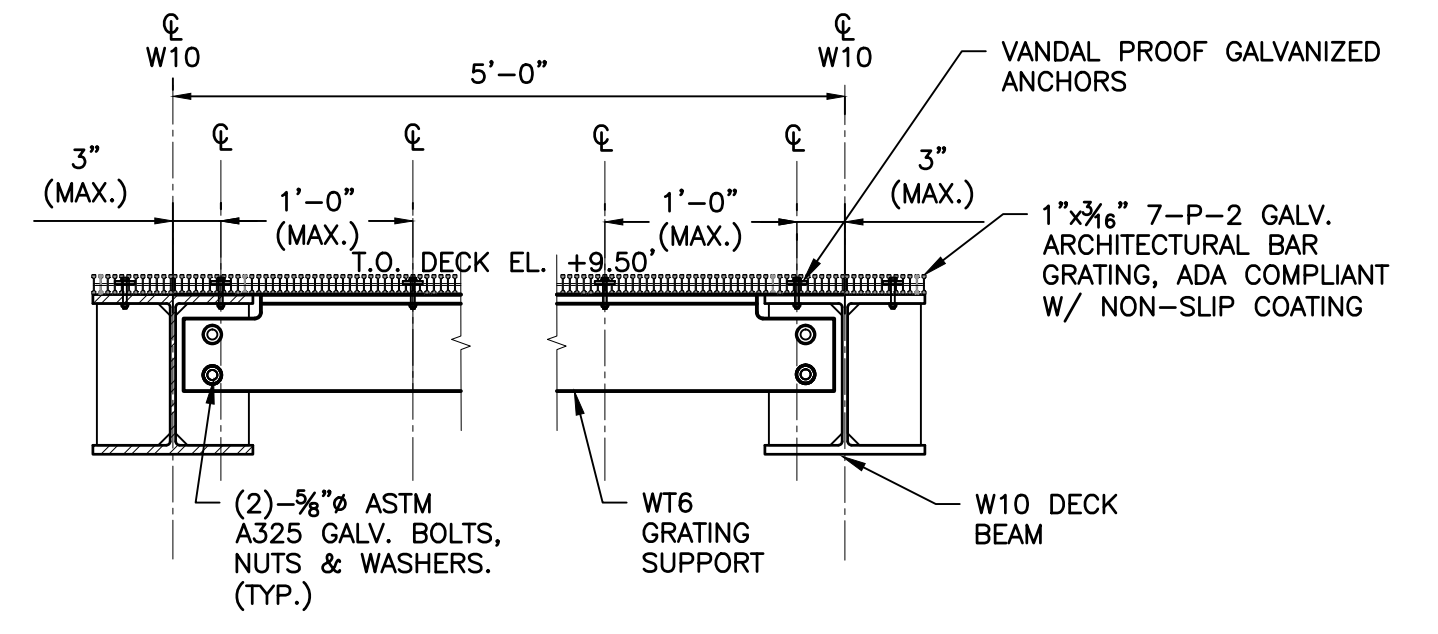
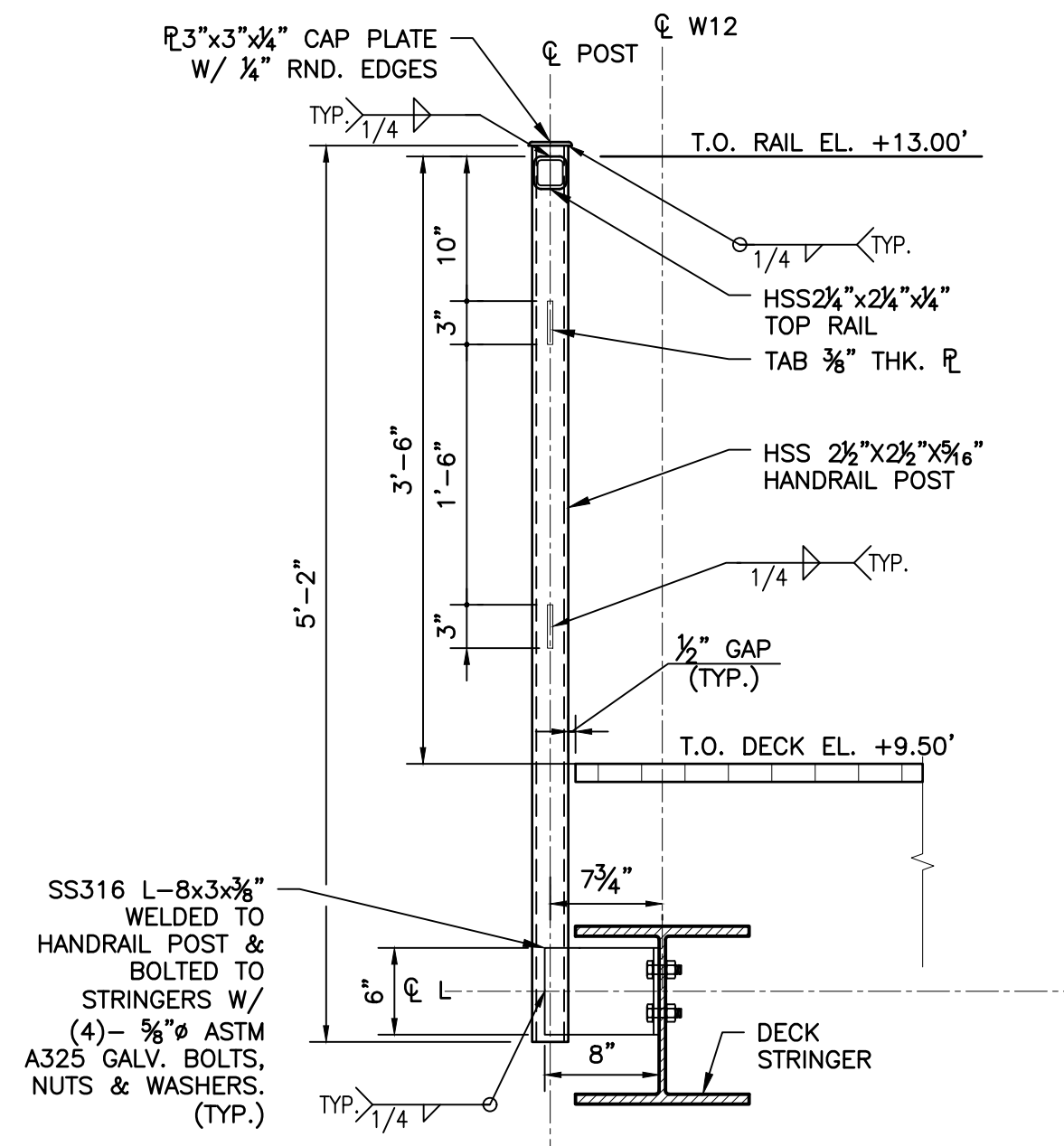
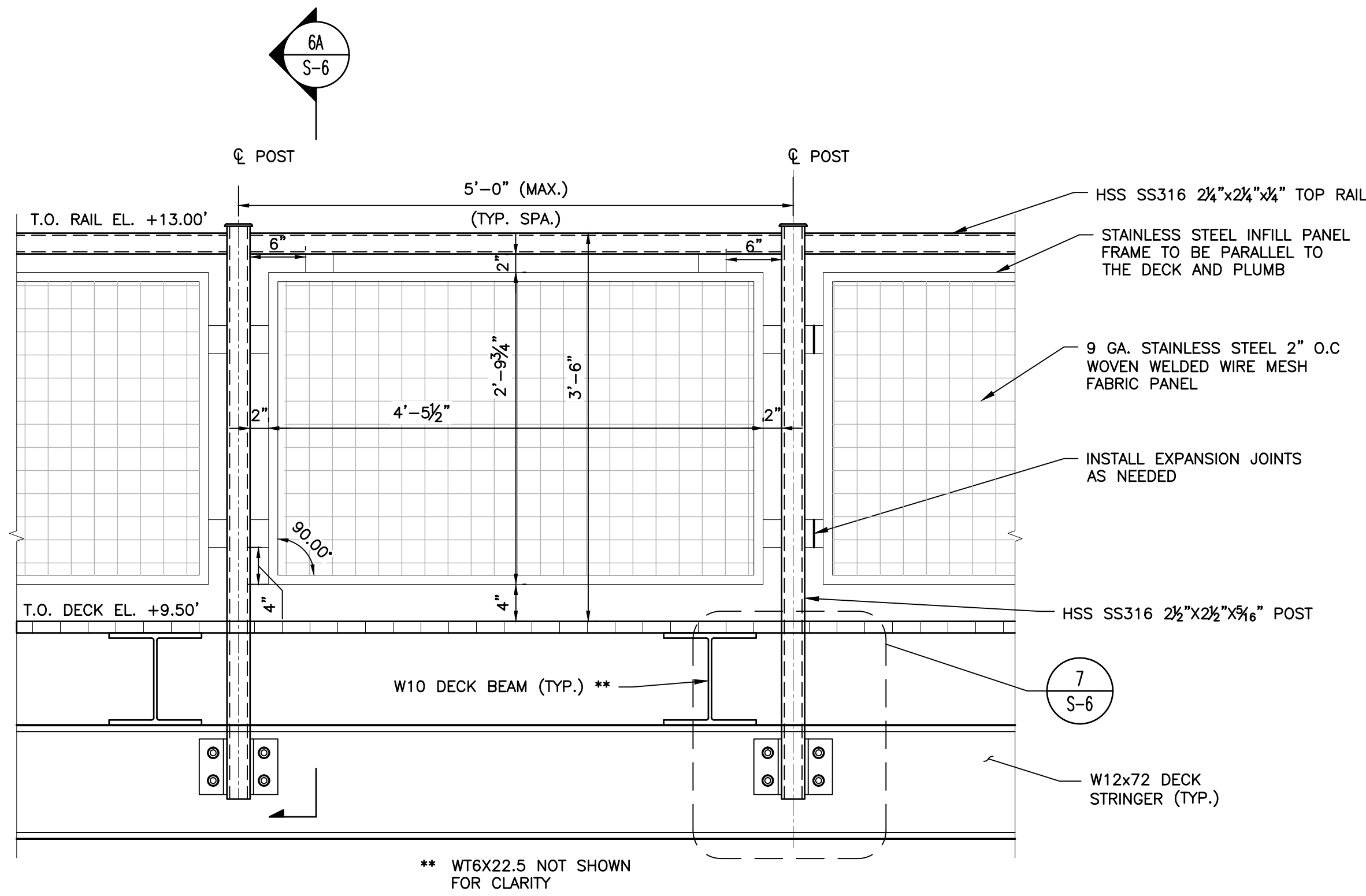
SRDC FISHING DOCK REHABILITATION

TYPICAL STRUCTURAL DETAILS

ISSUED FOR BID
DATE: 08/31/21

SCALE: AS NOTED	DESIGN BY: MP
DATE: 08/31/21	APPROVED BY: MGR
PROJECT NO: 2019610049.000	DRAWN BY: MP
SHEET NUMBER: S-5	CHECKED BY: PB
SHEET NO: 13 OF 18	REV. NO: 0

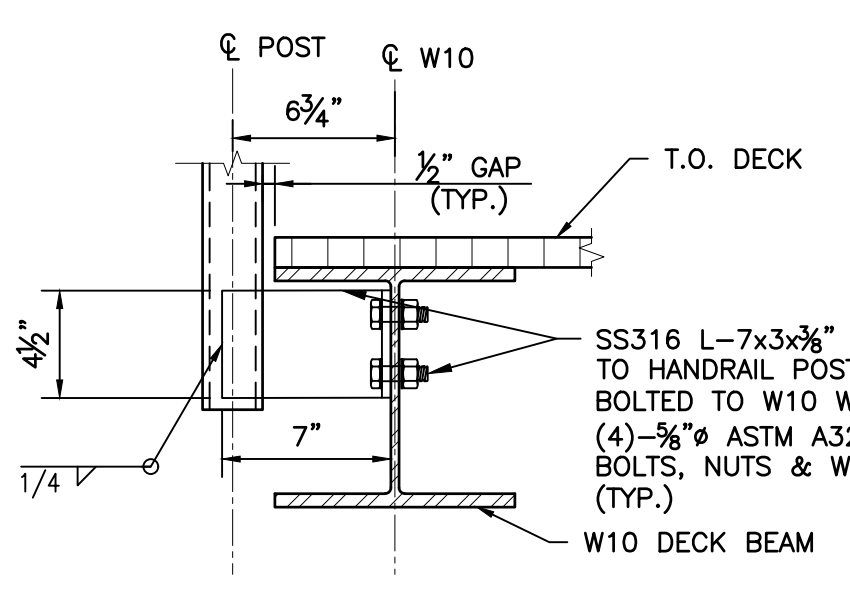
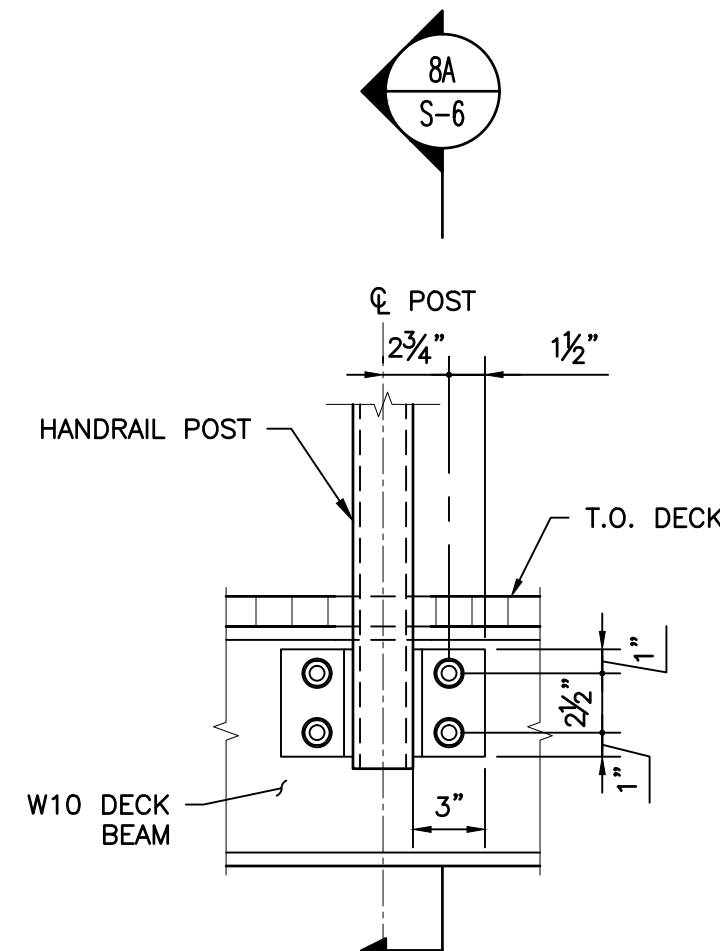
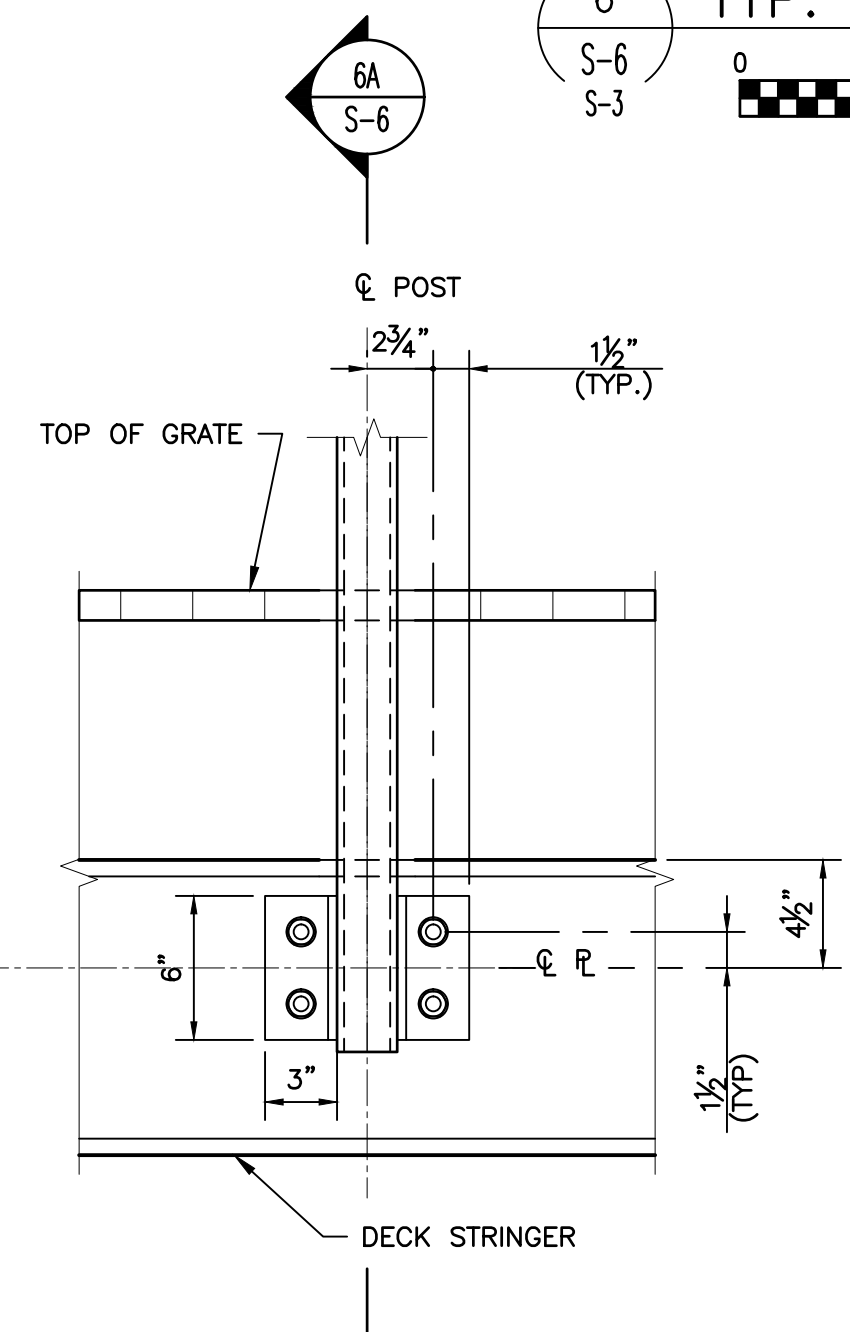
PROJECT: SRDC FISHING DOCK REHABILITATION - SRDC FISHING PIER FEASIBILITY STUDY WORKING DRAWINGS CURRENTS-5 TYPICAL HANDRAIL DETAILS.DWG DATE PRINTED: 9/17/2021 1:54:02 PM



6 TYP. HANDRAIL PANEL DETAIL

6A S-6 S-3

0 1' 2'



7 TYP. DETAIL

S-6 S-3

0 1/2' 1' 1 1/2'

8 TYP. DETAIL

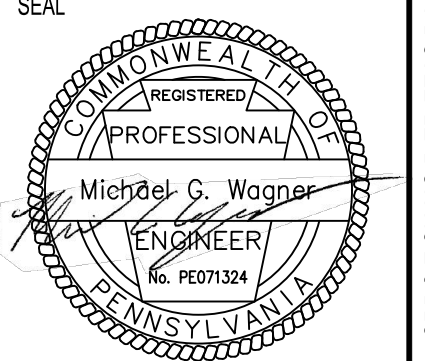
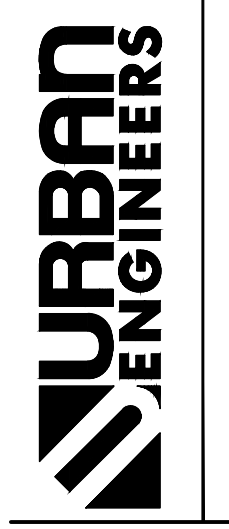
S-6 S-3

0 1/2' 1' 1 1/2'

- NOTES:
- FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.
 - ALL STRUCTURAL COMPONENTS OF THE HANDRAIL SYSTEM SHALL BE 316 SERIES STAINLESS STEEL, SHOP WELDED IN ACCORDANCE WITH AWS D1.6.

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F 215.922.8080



BY: _____
DATE: _____

REV	DATE	DESCRIPTION	BY	CHKD	APD
0	08/31/21	ISSUED FOR BID	PB	SMM	MCW

SCHUYLKILL RIVER DEVELOPMENT CORPORATION
PHILADELPHIA, PA

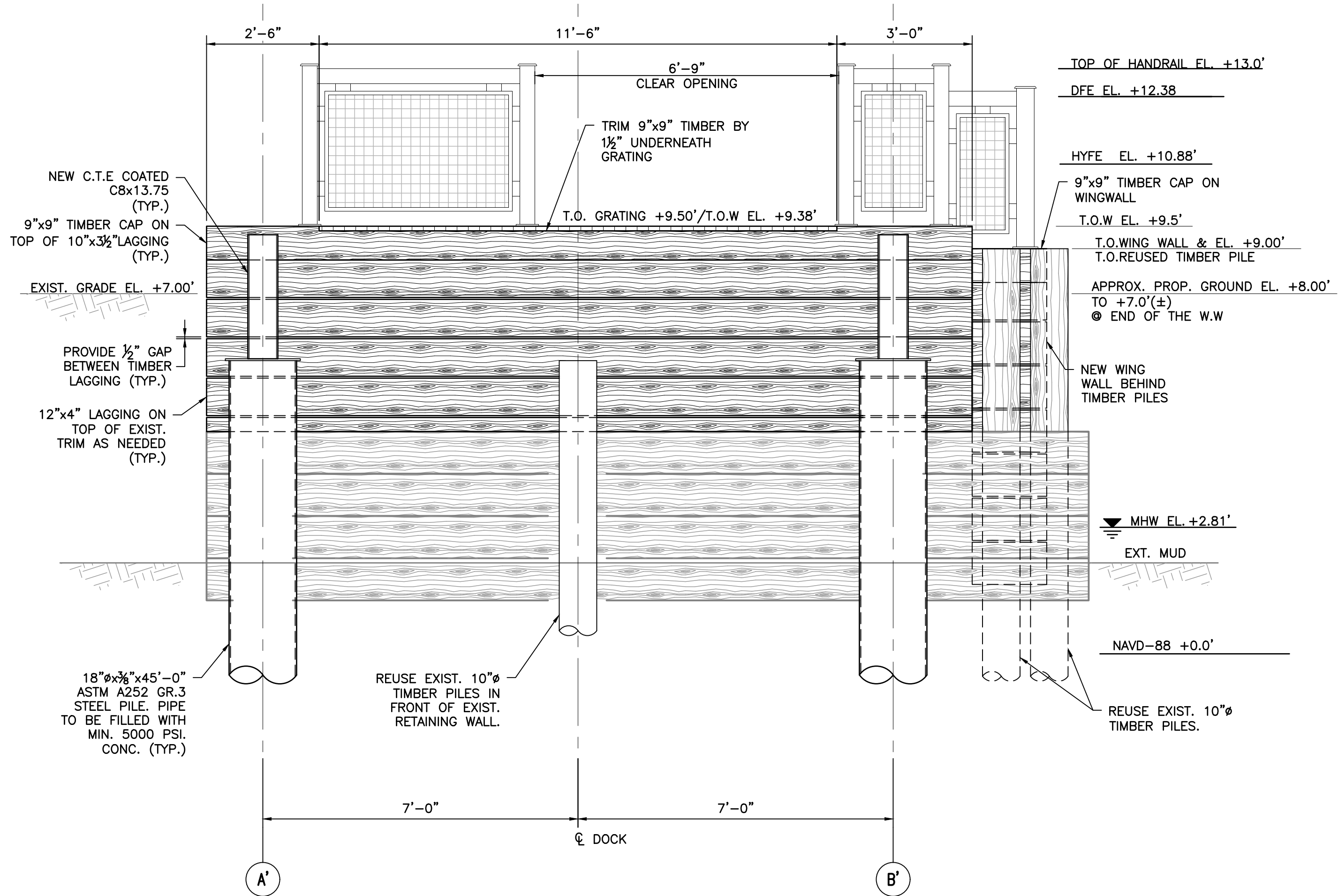
SRDC FISHING DOCK REHABILITATION

TYPICAL HANDRAIL DETAILS

SCALE: AS NOTED
DESIGN BY: MP
APPROVED BY: MP
DATE: 08/31/21
DRAWN BY: MP
CHECKED BY: PB

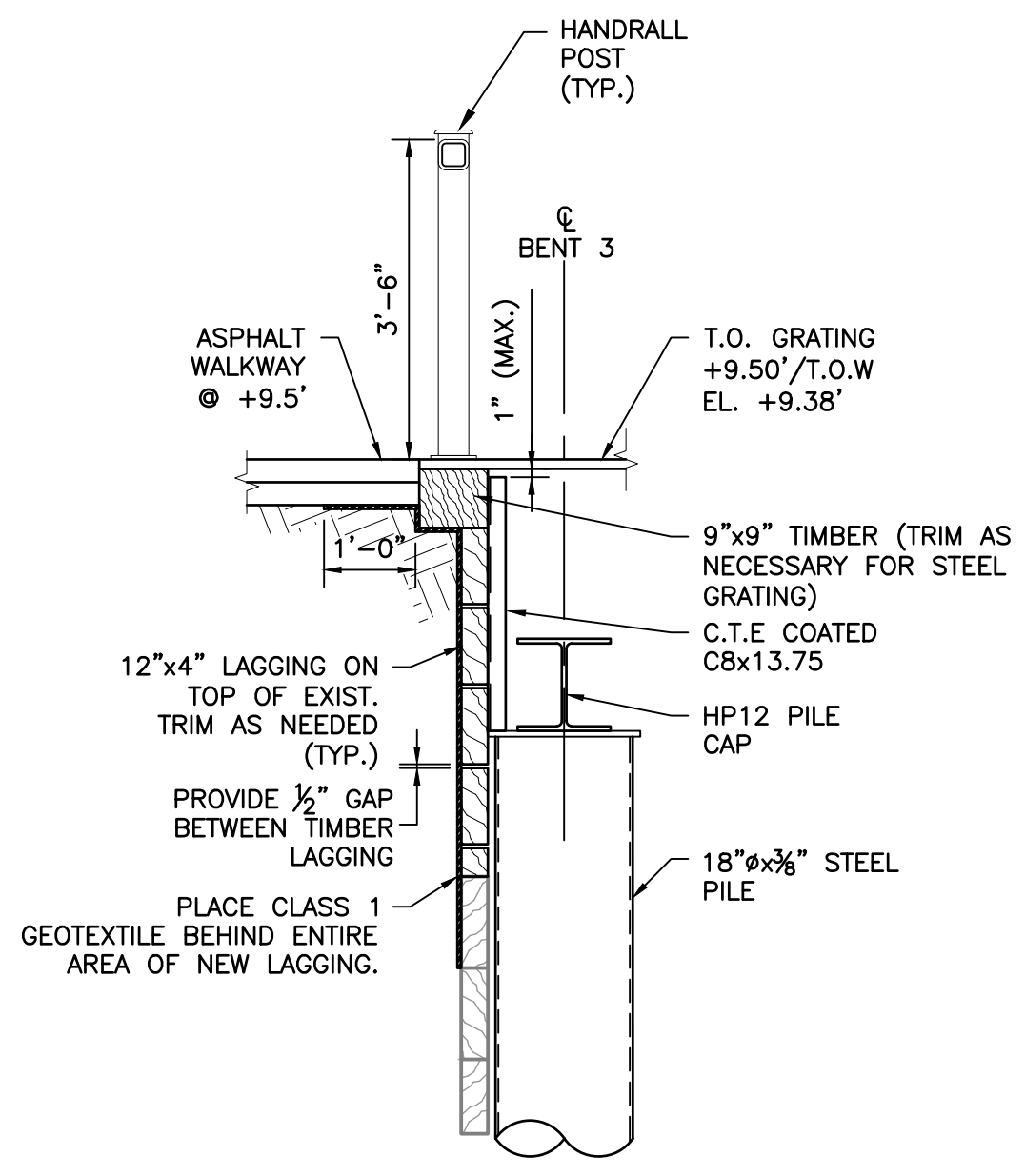
PROJECT NO: 2019610049.000
SHEET NUMBER: S-6

SHEET NO: 14 OF 18
DRAWING FILE NO: S-5 ... DWG
REV. NO: 0

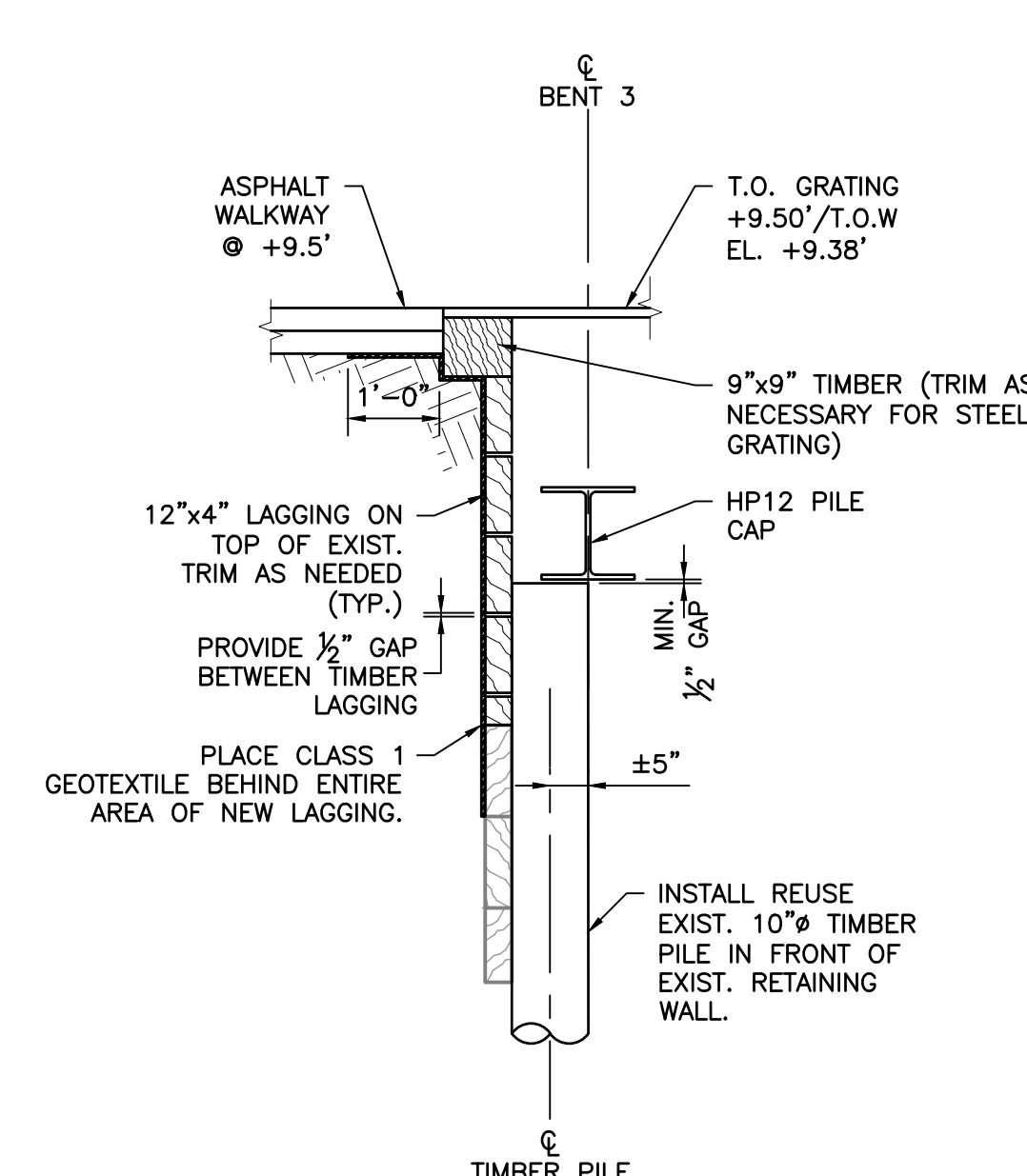


9A TIMBER LAGGING RETAINING WALL SECTION
 S-7
 0 1' 2' 4'

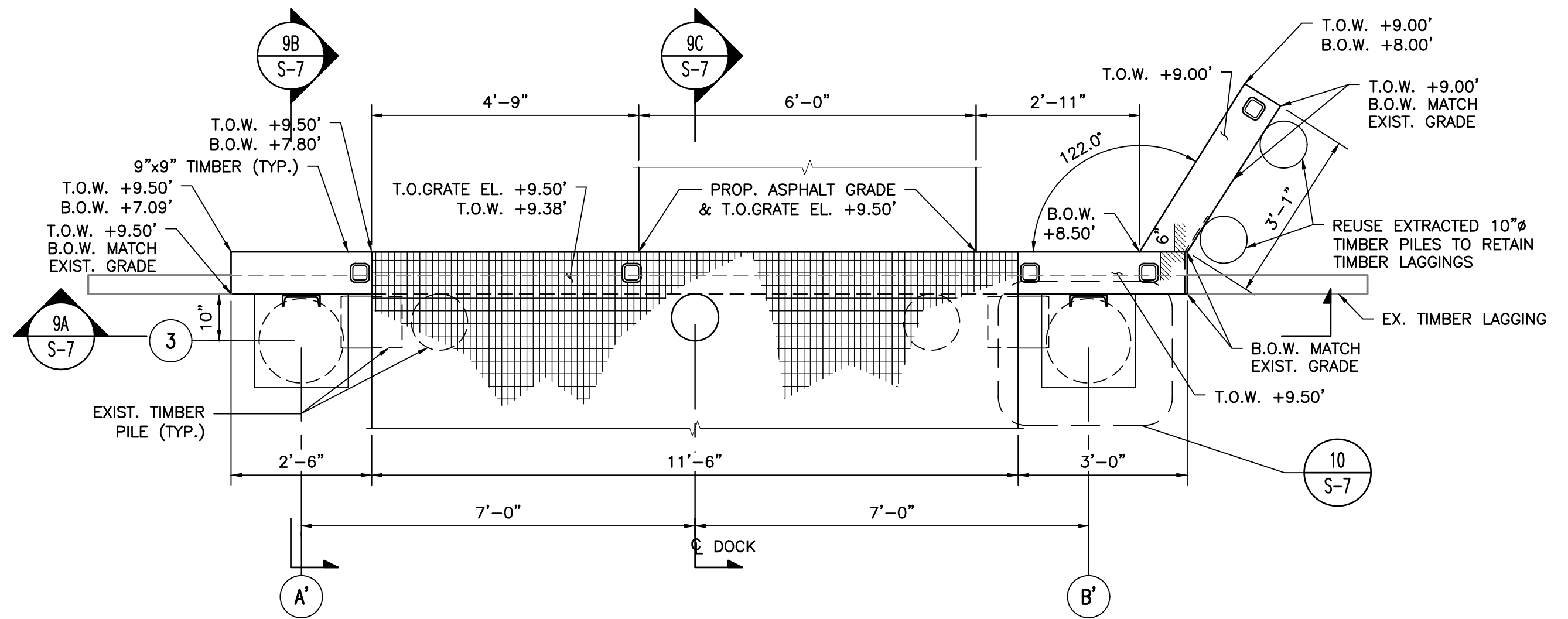
HP12 PILE CAP NOT SHOWN FOR CLARITY.



9B SECTION
 S-7
 0 1' 2' 4'

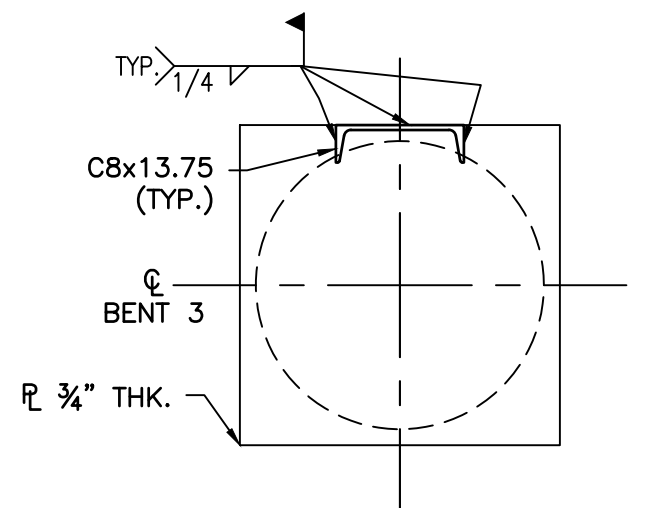


9C SECTION
 S-7
 0 1' 2' 4'



9 TIMBER LAGGING RETAINING WALL - PLAN VIEW
 S-7
 0 1' 2' 4'

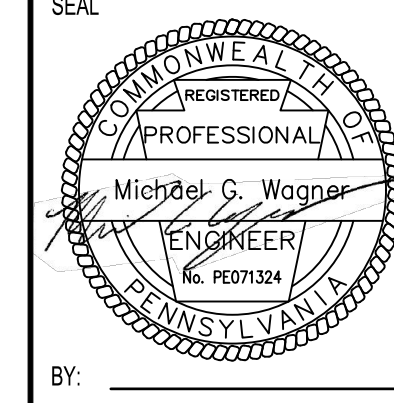
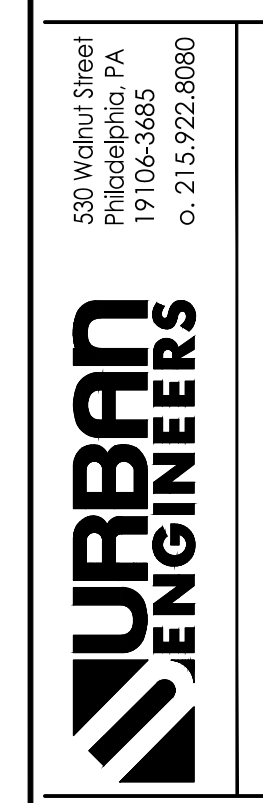
HP12 PILE CAP NOT SHOWN FOR CLARITY.
 T.O.W. ELEVATION REPRESENTS TOP OF TIMBER ELEVATIONS
 B.O.W. ELEVATION REPRESENTS PROPOSED GRADE



10 DETAIL
 S-7
 0 1' 2'

- NOTES:**
- FOR GENERAL NOTES, SEE SHEETS GN-01 & GN-02.
 - TIMBER PILES TO BE REUSED SHALL BE EVALUATED BY THE ENGINEER AFTER EXTRACTION AND BEFORE REUSE.
 - REUSED TIMBER PILES SHALL BE VIBRATED TO THEIR FULL LENGTHS TO REACH THE TOP ELEVATION SHOWN ON THESE DRAWINGS.

ISSUED FOR BID
 DATE: 08/31/21

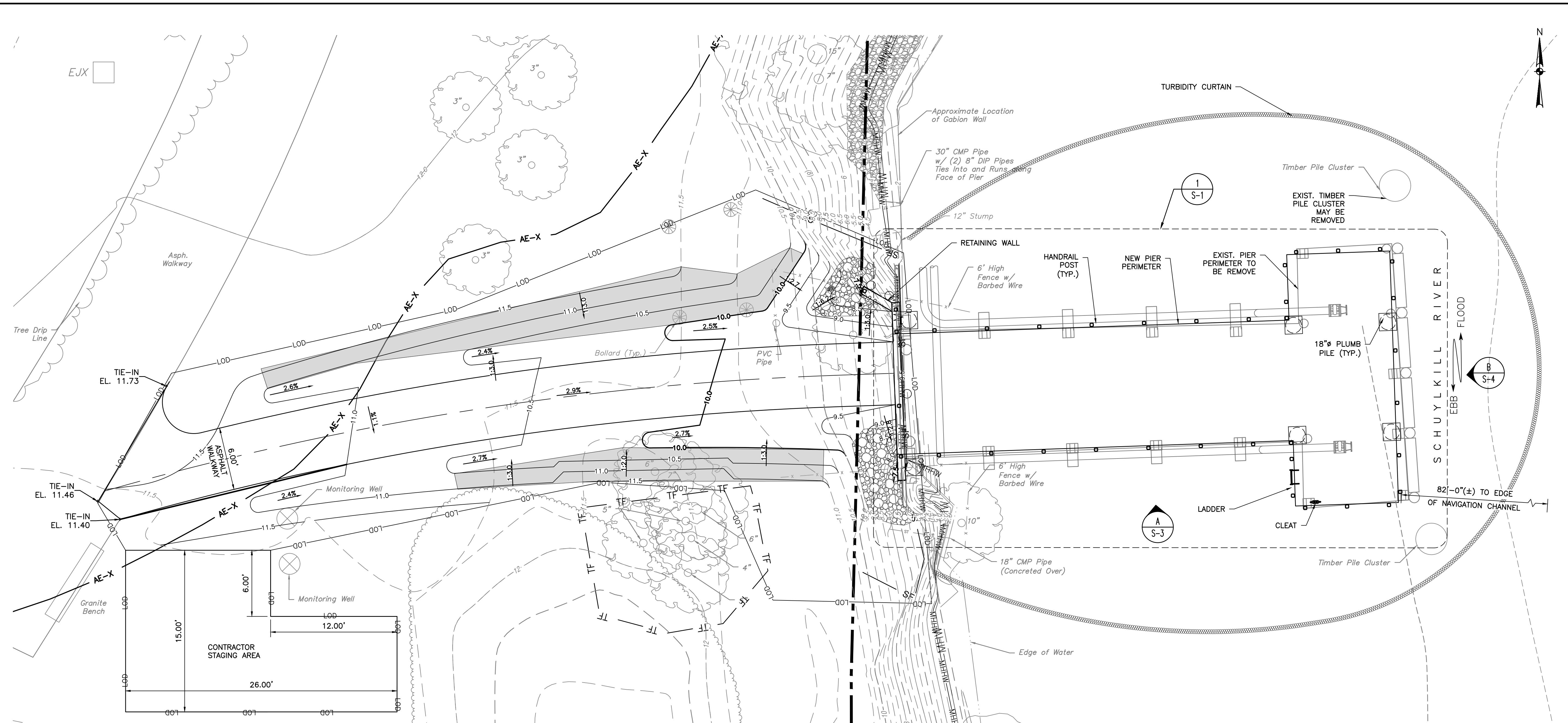


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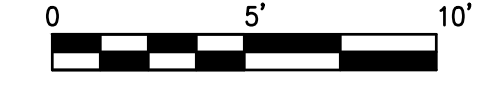
REV	DATE	DESCRIPTION
0	08/31/21	ISSUED FOR BID

SCHUYLKILL RIVER DEVELOPMENT CORPORATION PHILADELPHIA, PA
SRDC FISHING DOCK REHABILITATION
 RETAINING WALL SECTION AND DETAILS

SCALE: AS NOTED	DESIGN BY: MP
DATE: 08/31/21	APPROVED BY: MCR
PROJECT NO: 2019610049.000	DRAWN BY: MP
SHEET NUMBER: S-7	CHECKED BY: PB
SHEET NO: 15 OF 18	REV. NO: 0
DRAWING FILE NO: S-5DWG	



EROSION AND SEDIMENT CONTROL PLAN



ELEVATIONS:

+12.38'	DESIGN FLOOD ELEVATION (DFE)
+10.88'	FEMA 100 YR. FLOOD ELEVATION (BFE)
+4.90'	CITY DATUM
+3.31'	MEAN HIGH HIGH WATER (MHHW)
+2.81'	MEAN HIGH WATER (MHW)
+0.00'	NAVD-88
-1.12'	NGVD-29
-3.29'	MEAN LOW WATER (MLW)

(NOT TO SCALE)

LEGEND:

AE-X	SPECIAL FLOOD HAZARD ZONE AE/X BOUNDARY FROM FEMA FIRM #4207570179G
MHW	MEAN HIGH WATER
MHHW	MEAN HIGH HIGH WATER
---	FLOOD WAY BOUNDARY FROM FEMA FIRM #4207570179G
-25-	EXISTING CONTOUR
-11.5-	PROPOSED GRADE
	TURBIDITY CURTAIN
---	LIMIT OF LAND DISTURBANCE
SF	SILT FENCE
TF	TREE PROTECTION FENCE
■	EROSION CONTROL BLANKET

NOTES:

1. THE CONTRACTOR SHALL NOT BE ALLOWED TO BLOCK OR DISRUPT TRAIL ACTIVITIES DURING CONSTRUCTION. ALL EQUIPMENT AND MATERIALS SHALL ARRIVE AND DEPART BY WATER.
2. FILL SHALL BE PLACED, IN ACCORDANCE WITH ASCE 24, IN 12" LIFTS, COMPACTED TO 95% OF ITS MAXIMUM STANDARD PROCTOR DENSITY.
3. ALL DISTURBED AREAS SHALL BE SEEDED AT THE COMPLETION OF CONSTRUCTION WORK.
4. FOR DETAILS AND NOTES FOR BMPS REFER TO SHEET
5. 8" EROSION CONTROL SEDIMENT LOGS SHALL BE PLACED ALONG THE WATER'S EDGE IN ALL AREAS WHERE SEDIMENT OR RUNOFF MAY ENTER THE WATER, THROUGHOUT THE DURATION OF THE PROJECT, TO PREVENT THE DISCHARGE OF SEDIMENTS INTO THE WATER.

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DATE: _____

REV	DATE	DESCRIPTION	BY	CHKD	APD
0	08/31/21	ISSUED FOR BID	PB	SMM	MCW

SCHUYLKILL RIVER DEVELOPMENT CORPORATION
PHILADELPHIA, PA

SRCC FISHING DOCK REHABILITATION

EROSION AND SEDIMENT CONTROL PLAN

SCALE: AS NOTED
DATE: 08/31/21
PROJECT NO: 2019610049.000
SHEET NUMBER: ES-1

DESIGN BY: FIC
APPROVED BY: MGR
DRAWN BY: FIC
CHECKED BY: MT

SHEET NO: 16 OF 18
DRAWING FILE NO: ES-1...DWG

REV. NO: 0

T:\PROJECTS\ON-GOING\2019\PROJECTS\2019610049.000 - SRCC FISHING PIER FEASIBILITY STUDY\WORKING DRAWINGS\CURRENTS-1 EROSION AND SEDIMENT CONTROL PLAN.DWG
DATE PRINTED: 9/17/2021 1:36:31 PM
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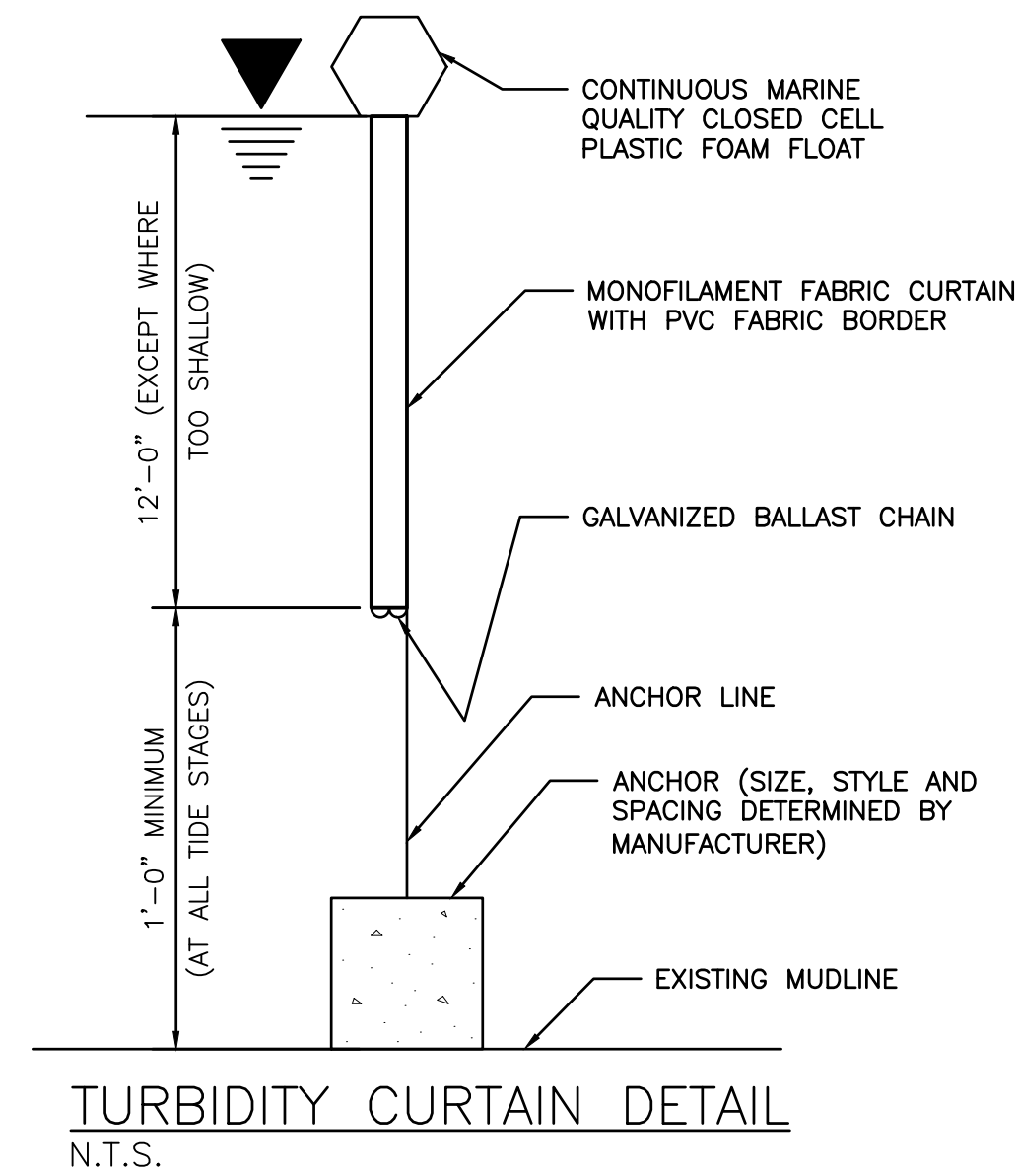
EROSION & SEDIMENT CONTROL NOTES:

1. A FLOATING TURBIDITY CURTAIN SHALL BE PLACED TO ENCOMPASS AREAS WHERE SEDIMENT MAY BE GENERATED AS A RESULT OF PROJECT WORK. A TURBIDITY CURTAIN MUST BE IN PLACE FOR ACTIVITIES THAT MAY GENERATE TURBIDITY, INCLUDING: PILE INSTALLATION OR EXTRACTION, PLACING CONCRETE UNDERWATER, DREDGING OR UNDERWATER DEBRIS REMOVAL, AND DEMOLITION.
2. THE CURTAIN HEIGHT SHALL NOT EXCEED 12 FT, AND SHALL BE SHORT ENOUGH TO MAINTAIN A 1 FT GAP BETWEEN ITS BOTTOM AND THE MUDLINE AT MEAN LOW WATER.
3. UNLESS NOTED OTHERWISE, THE TURBIDITY CURTAIN SHALL BE A TRITON TYPE III PERMEABLE SILT AND TRUBIDITY BARRIER, OR APPROVED EQUIVALENT. WHERE NO TIDAL FLUCTUATION OR CURRENT EXISTS, A TYPE II BARRIER MAY BE USED. SUBMIT PROPOSED BARRIER SPECIFICATIONS, ALONG WITH THE MANUFACTURER'S RECOMMENDED CONDITIONS FOR USE.
4. ATTACH BUOYS WITH NAVIGATION LIGHTS WHERE REQUIRED BY THE COAST GUARD.

TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS

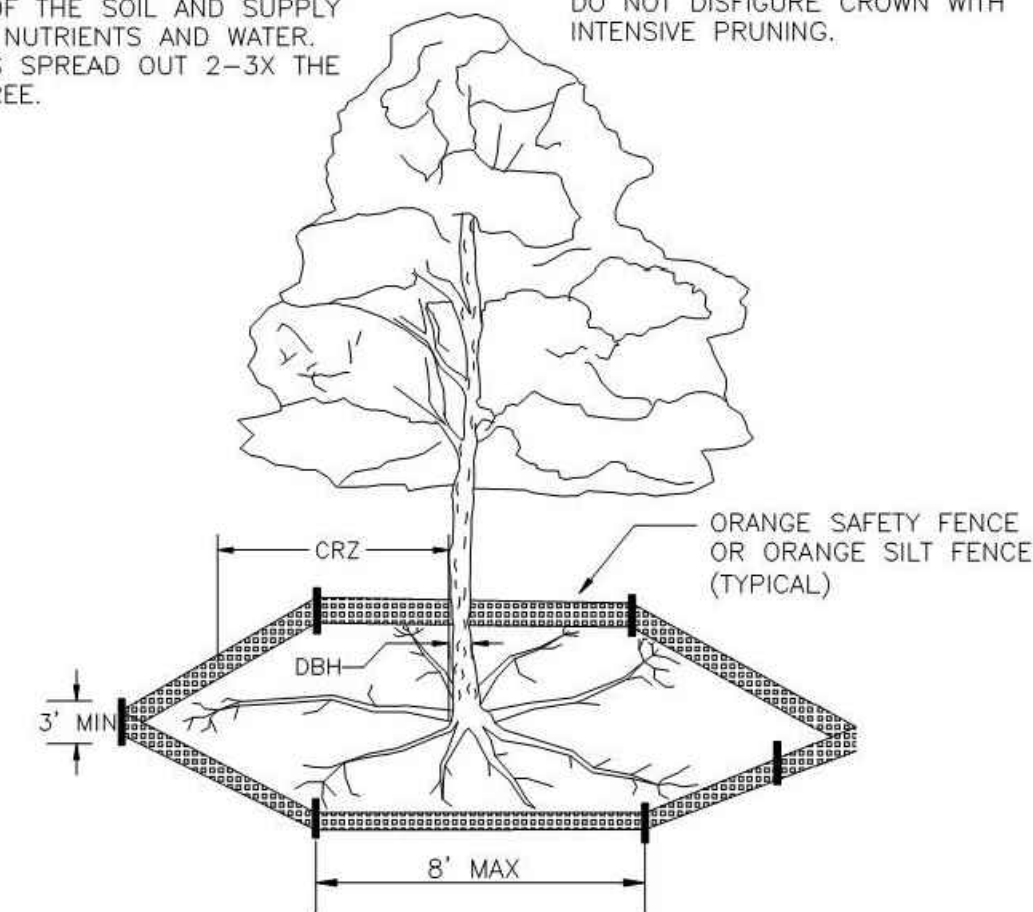
(TEMPORARY)	
SPECIES:	ANNUAL RYEGRASS 100%
% PURE LIVE SEED:	98%
APPLICATION RATE:	40 LBS PER ACRE
FERTILIZER TYPE:	10-20-20
FERTILIZER APPL. RATE:	675 LBS PER ACRE
LIMING RATE:	1 TON PER ACRE
FINAL DATE FOR SEEDING:	OCTOBER 15TH
MULCH TYPE:	STRAW OR HAY
MULCH RATE:	3 TONS PER ACRE
(PERMANENT)	
TOPSOIL PLACEMENT DEPTH:	N/A
SPECIES:	KENTUCKY* BLUEGRASS(70%), CREEPING RED FESCUE(20%), RYEGRASS(10%)
% PURE LIVE SEED:	98%
APPLICATION RATE:	100 LBS PER ACRE
FERTILIZER TYPE:	10-6-4
FERTILIZER APPL. RATE:	1,300 LBS PER 1,000 SF
LIMING RATE:	2 TONS PER ACRE
MULCH TYPE:	STRAW OR HAY
MULCH RATE:	3 TONS PER ACRE
ANCHOR MATERIAL:	N/A
ANCHORING METHOD:	N/A
RATE OF ANCHOR MATERIAL APPL.:	N/A
FINAL DATE FOR SEEDING:	APRIL 15 - MAY 30, AUGUST 15 - NOVEMBER 15

1. HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE. STRAW MULCH SHALL BE APPLIED IN LONG STRANDS, NOT CHOPPED OR FINELY BROKEN.
2. MULCH WITH MULCH CONTROL NETTING OR EROSION CONTROL BLANKETS MUST BE INSTALLED ON ALL SLOPES 3:1 AND STEEPER.
3. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED FOR MORE THAN 20 DAYS MUST BE SEEDED AND MULCHED IMMEDIATELY WITH TEMPORARY SEEDING SPECIFICATIONS.
4. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
5. LANDSCAPE CONTRACTOR SHALL PROVIDE AND SPREAD 8" OF TOPSOIL AND FINE GRADE ALL DISTURBED AREAS AND NEW LAWN AREAS.
6. PREPARED TOPSOIL SHALL CONSIST OF 3 PARTS TOPSOIL MIXED THOROUGHLY WITH 1 PART LEAF MOLD.
7. MULCH TO BE USED FOR DRESSING OF TREE SAUCERS AND SHRUB BEDS SHALL BE PROVIDED TO A MIN. 2" DEPTH OF DOUBLE SHREDDED HARDWOOD BARK MULCH. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL.



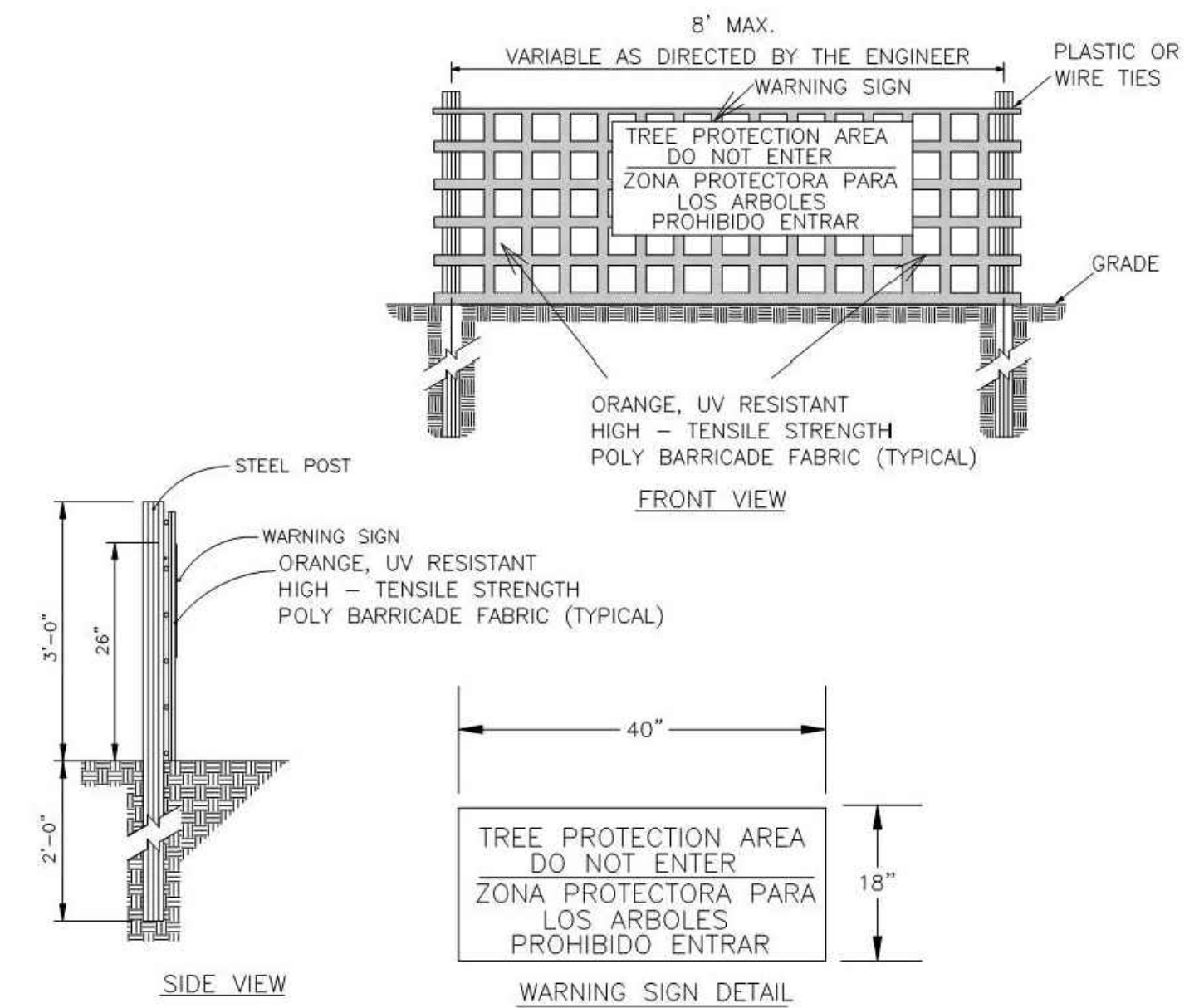
NOTE:
THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

NOTE:
CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.

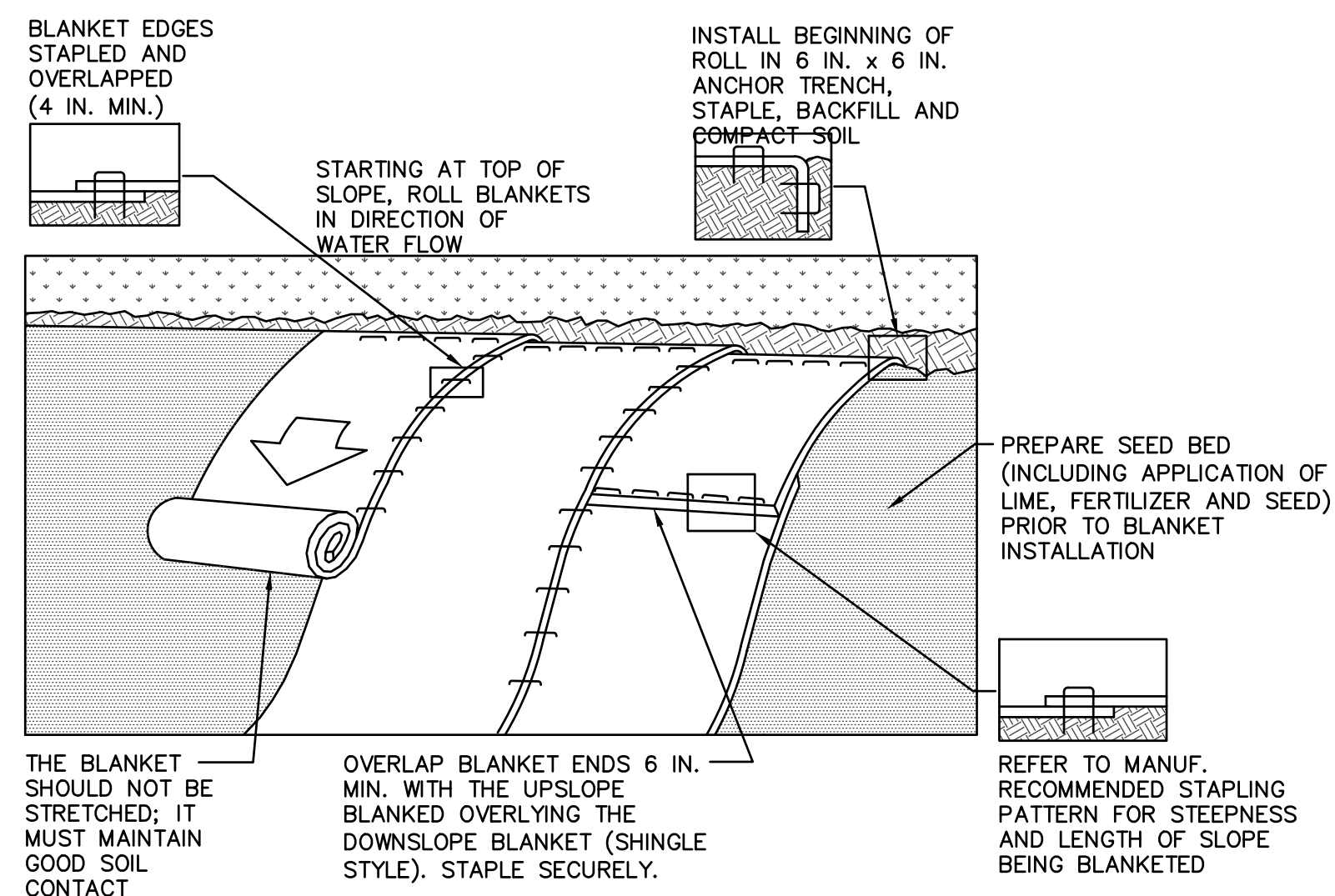


- NOTES:**
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
 2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREST HEIGHT (DBH).
 3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATTS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
 4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
 5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
 6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

TREE PROTECTION DETAIL
N.T.S.

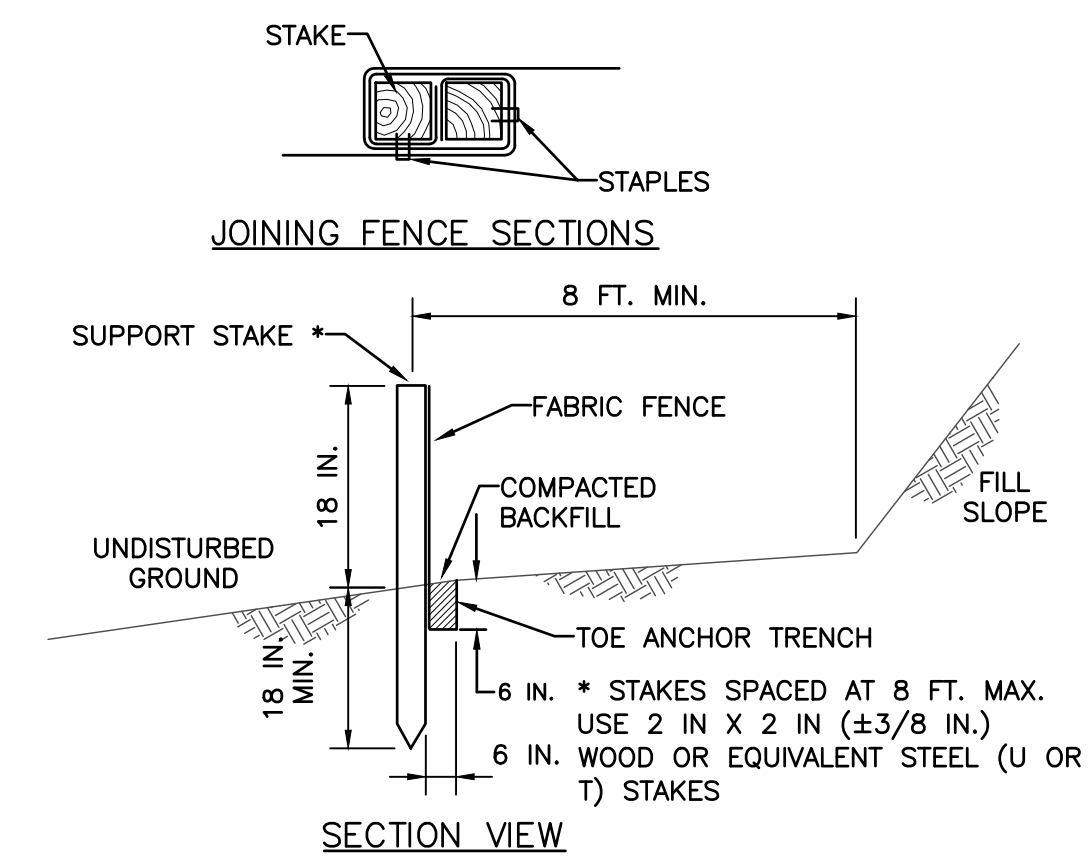


- NOTES:**
1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
 2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
 3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
 4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
 5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
 6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.



- NOTES:**
- SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWNGS PRIOR TO INSTALLING THE BLANKET.
- PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
- BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
- THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

STANDARD CONSTRUCTION DETAIL #11-1
EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE



- NOTES:**
- FABRIC SHALL HAVE THE MINIMUM PROPERTIES AS SHOWN IN TABLE 4.3 OF THE PA DEP EROSION CONTROL MANUAL.
- FABRIC WIDTH SHALL BE 30 IN. MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.
- SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GRADE HEIGHT OF THE FENCE.
- ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET (STANDARD CONSTRUCTION DETAIL # 4-6).
- FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

STANDARD CONSTRUCTION DETAIL #4-7
STANDARD SILT FENCE (18\"/>NOT TO SCALE

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o. 215.922.8080

URBAN
ENGINEERS

SEAL

BY: _____

DATE: _____

REV	DATE	ISSUED FOR BID	DESCRIPTION
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		BY	DESCRIPTION
		CKD	APD
		SMK	MCW
		PB	BY

SCHUYLKILL RIVER DEVELOPMENT CORPORATION PHILADELPHIA, PA

SRDC FISHING DOCK REHABILITATION

EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

SCALE:	DESIGN BY: FIC
AS NOTED	APPROVED BY: MGR
DATE:	DRAWN BY: FIC
08/31/21	CHECKED BY: MT
PROJECT NO:	
2019610049.000	
SHEET NUMBER:	
ES-2	
SHEET NO. 17 of 18	REV. NO.
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