

PORT OF TACOMA FILE: K:\Projects\0092-Port of Tacoma\Parcel 86 Shoreline Repair Project\101493.01 - POT Parcel 86 Construction Plans\101493.01 - Bid Set\101493.01 - G1.0 (COVER PAGE)

BINDING EDGE

PORT OF TACOMA

PARCEL 86 BANK STABILIZATION PROJECT

PROJECT NO. 101493.01

CONTRACT NO. 071513

PORT COMMISSIONERS:

RICHARD P. MARZANO
DON MEYER
JOHN MCCARTHY
KRISTIN ANG
DEANNA KELLER

PORT STAFF:

JOHN WOLFE
NWSA Chief Executive Officer

ERIC JOHNSON
Port of Tacoma Executive Director

THAIS HOWARD, P.E.
Director of Engineering

Hughes Wike, P.E.
Project Manager



VICINITY MAP NO SCALE PORT OF TACOMA

DRAWING LIST			
SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
G1.0	1	COVER PAGE	0
C1.0	2	PROJECT LAYOUT AND ACCESS	0
C2.0	3	EXISTING CONDITIONS AND SHEET PILE WALL LOCATION	0
C3.0	4	GRADING AND RESTORATION	0
C4.0	5	SHEET PILE WALL PLAN AND PROFILE	0
C5.0	6	SHEET PILE WALL SECTIONS	0
C6.0	7	DETAILS	0

CONSULTANT:



1119 Pacific Avenue - Suite 1600 Tacoma, WA 98402
253-572-0927

6662

G1.0

SH 1 OF 7

CONT/CONS: 071513
M. ID: 101493.01
PHASE: BID SET

PARCEL 86 BANK STABILIZATION PROJECT
PIERCE COUNTY, WASHINGTON
COVER PAGE

APPROVED:

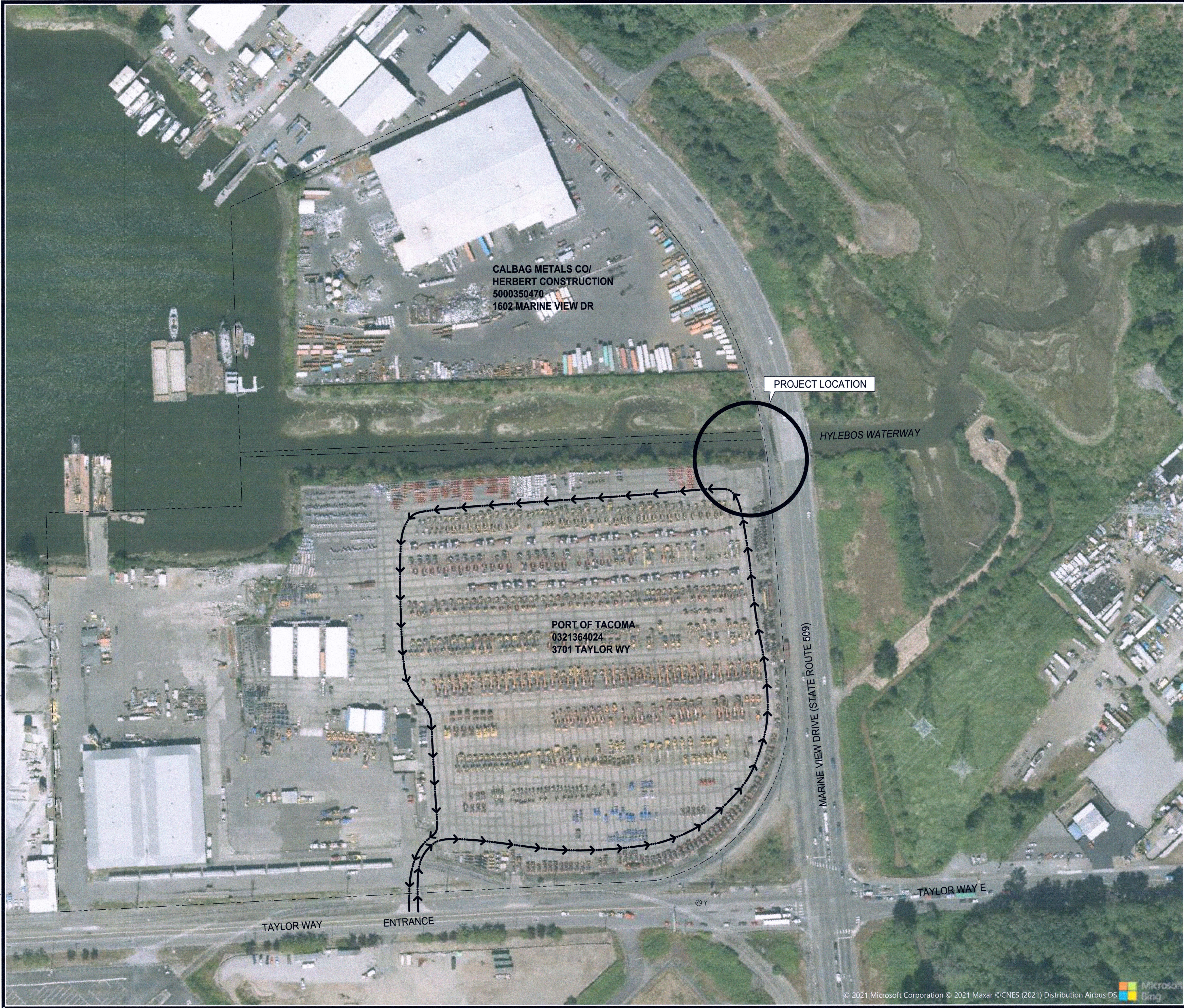
DIRECTOR ENG. DATE
PRINTED BY: jigsby Aug 17, 2021
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

ANCHOR QEA
1119 Pacific Avenue - Suite 1600 Tacoma, WA 98402
253-572-0927

MARK: REVISION: BY: APPR: DATE:

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253) 883-5841

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LEGEND

→ PROJECT ACCESS ROUTE

--- PROPERTY BOUNDARY

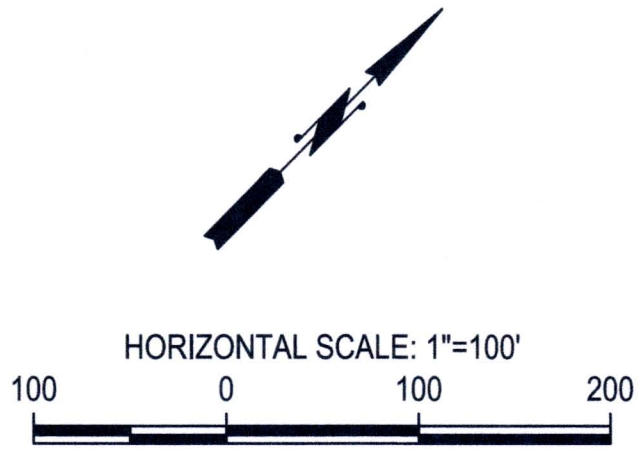
HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011
(PER PORT OF TACOMA SURVEY CONTROL MAP - 2016)

PORT OF TACOMA MONUMENT DESIGNATIONS "Y" & "GG"

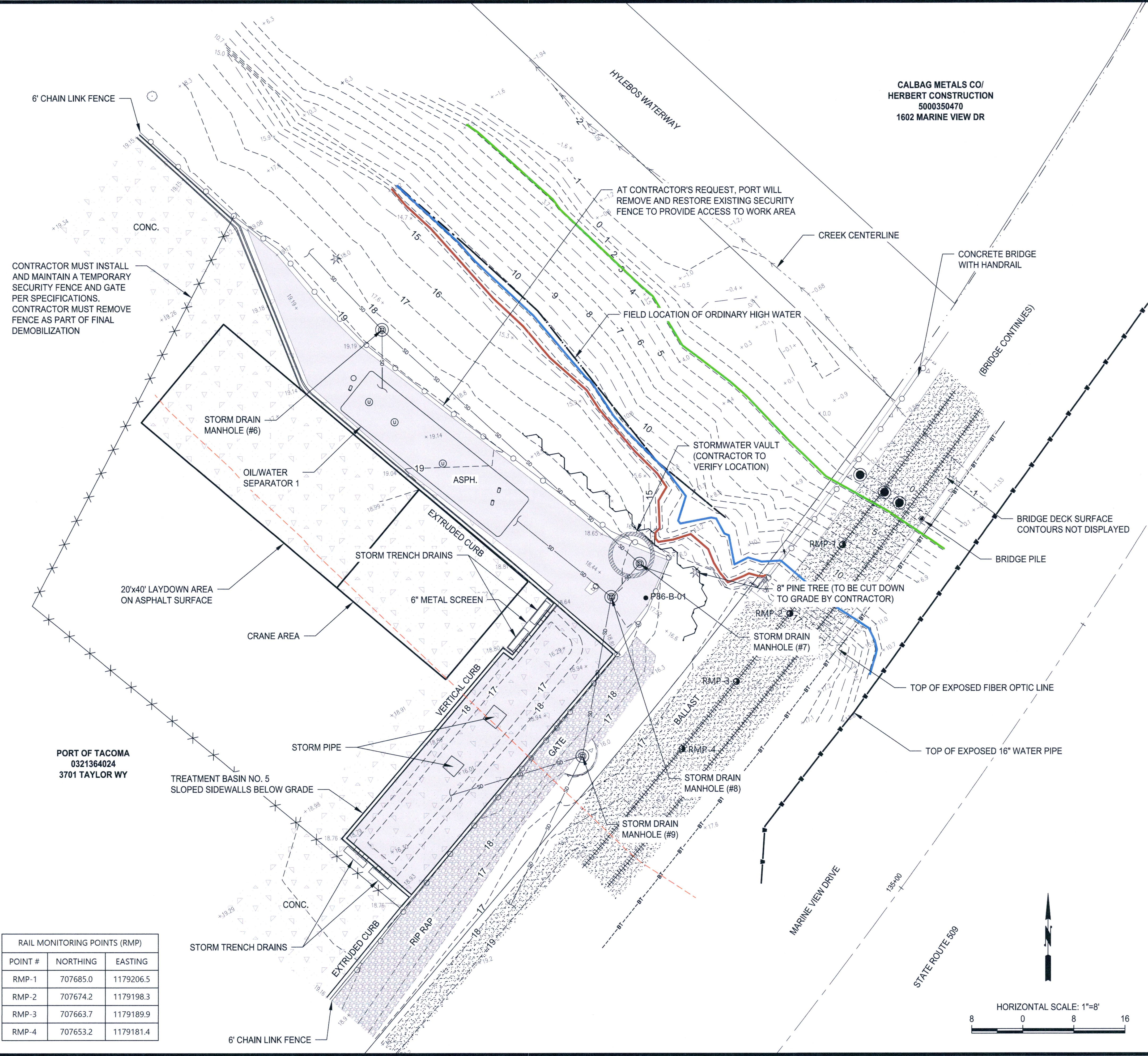
"Y": SURFACE BRASS DISK WITH "X"
N: 707135.5575
E: 1178450.5565

"GG": 2" SURFACE BRASS DISK WITH "PUNCH" (NOT SHOWN)
N: 708849.5633
E: 1176475.8392



6662 C1.0 SH 2 OF 7	PARCEL 86 BANK STABILIZATION PROJECT PIERCE COUNTY, WASHINGTON PROJECT LAYOUT AND ACCESS								
	CONT./CONS: 071513 M. ID: 101493.01 PHASE: BID SET	TOWNSHIP: DAT-HRZ: WA83-SF PARCEL:	RANGE: VERT: MLLW 19.39' @ Tide 22 1933	SECTION: DATE DIRECTOR ENG. DATE PRINTED BY: jigsby Aug 17, 2021 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		CHECKED BY DATE PROJ. ENGR DATE	MARK: REVISION: BY: DATE: APPR: DATE:		

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SURVEY LEGEND

- ⊙ STORM DRAIN MANHOLE
- UTILITY CLEAN OUT
- ⊕ UTILITY MANHOLE
- BRIDGE PILE
- ✱ CONIFER TREE
- DECIDUOUS TREE
- ⊙ GATE POST
- ◇ PVC VENT
- BOUNDARY LINE
- SD — STORM DRAIN LINE
- - - - - ORDINARY HIGH WATER LINE (OHW)
- WATER LINE
- - - - - BT — TELECOM LINE
- - - - - EXISTING CONTOURS (1 & 5' INTERVALS)
- ||||| RAILROAD TRACKS
- ===== 6" CURB
- NO LOAD AREA
- ASPHALT SURFACE
- GRAVEL SURFACE
- RIP RAP SURFACE

GENERAL LEGEND

- P86-B-01 EXISTING GEOTECHNICAL BORING LOCATION
- RMP-1 ● RAIL MONITORING POINT
- PARCEL 86 PROPERTY BOUNDARY
- MEAN HIGHER-HIGH WATER LINE (MHHW), +11.78'
- MEAN LOW WATER LINE (MLW), +2.84'
- HIGH TIDE LINE (HTL), +13.5'
- - - - - 50-FOOT FISH AND WILDLIFE HABITAT CONSERVATION AREAS (FWHCA) MARINE BUFFER
- ✱ TEMPORARY SECURITY FENCE

SURVEY NOTES

- SURVEY AND NOTES PROVIDED BY SITTS & HILL ENGINEERS, INC., DATED 6/24/2020 AND 4/14/2021.
- EQUIPMENT USED: TOPCON QS ROBOTIC TOTAL STATION OR CARLSON GEOMAX CR2 ROBOTIC TOTAL STATION OR TOPCON GR3 GPS UNIT.
- UTILITIES AS SHOWN HEREON ARE BASED ON FIELD SURVEY OBSERVATION OF UTILITY LOCATE SERVICES PERFORMED BY MT. VIEW LOCATING SERVICES LLC. IN JUNE, 2020 FOR THIS SURVEY. UTILITIES OTHER THAN SHOWN MAY EXIST ON THE SITE. THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES CERTIFY THAT THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY AND PAINTED UTILITY LOCATE LINES. COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA IS CONSISTENT WITH QUALITY LEVEL (B) OF THE ASCE STANDARD GUIDELINES 38-02.

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011 (PER PORT OF TACOMA SURVEY CONTROL MAP - 2016)

PORT OF TACOMA MONUMENT DESIGNATIONS "Y" & "GG"
"Y": SURFACE BRASS DISK WITH "X"
N: 707135.5575
E: 1178450.5565

"GG": 2" SURFACE BRASS DISK WITH "PUNCH"
N: 708849.5633
E: 1176475.8392

VERTICAL DATUM

MLLW (PER PORT OF TACOMA 2016 MONUMENT CONTROL MAP)

CONTROL POINT "Y"; MONUMENT ON TAYLOR WAY, NEAR ITS INTERSECTION WITH SR 509. MLLW ELEV = 16.37

RAIL MONITORING POINTS (RMP)		
POINT #	NORTHING	EASTING
RMP-1	707685.0	1179206.5
RMP-2	707674.2	1179198.3
RMP-3	707663.7	1179189.9
RMP-4	707653.2	1179181.4

P.O. BOX 1897 TACOMA, WA 98401 (206) 388-5841

1119 Pacific Avenue - Suite 1600 Tacoma, WA 98402
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CHECKED BY	DATE
PROJECT ENGR	DATE
PRINTED BY	DATE
PROJECT ADDRESS	ONE SITUUM PLAZA
PORT ADDRESS	ONE SITUUM PLAZA
TACOMA, WA	98401-1837

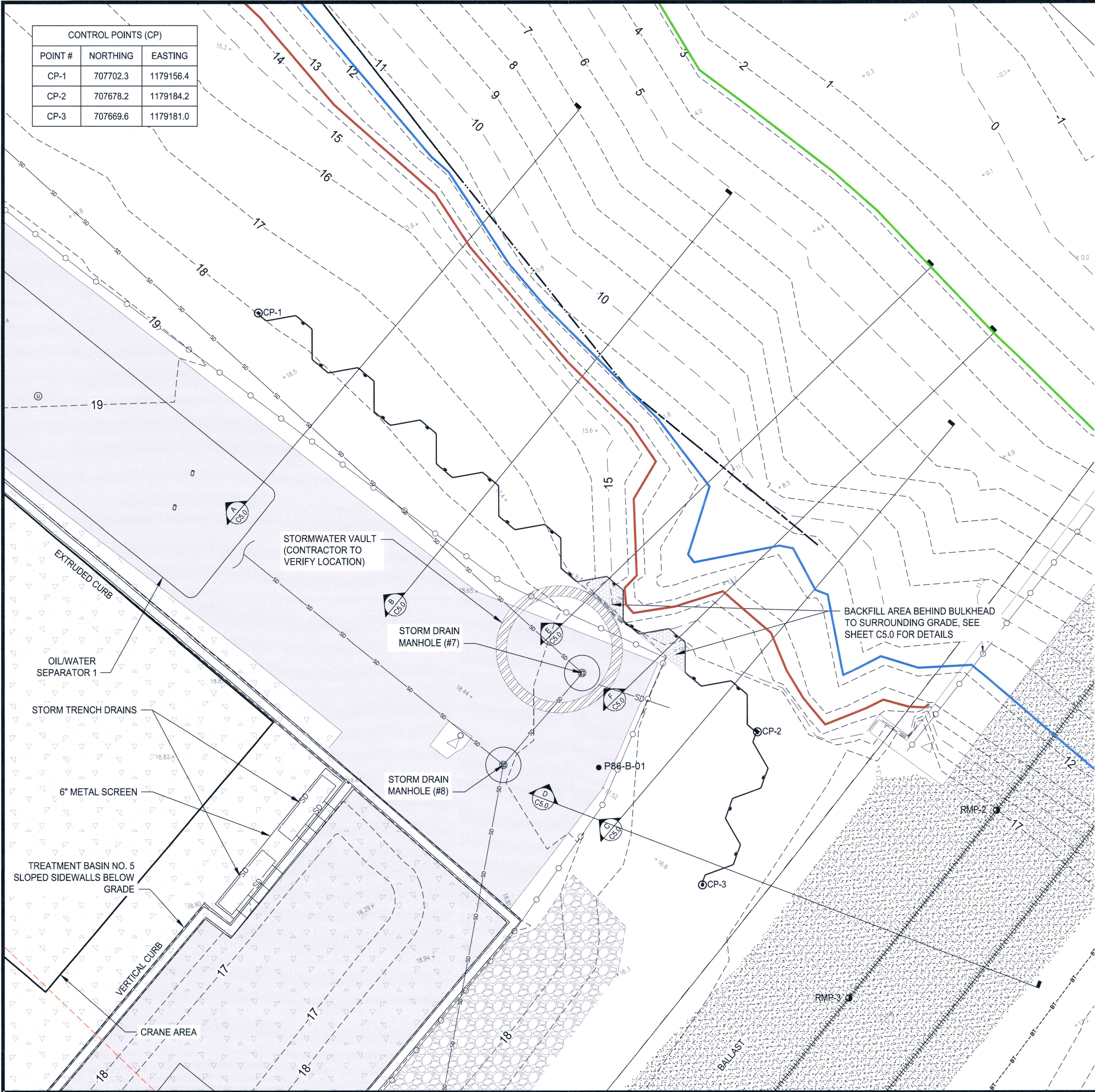
6662	SH 3 OF 7
C2.0	
CON/CONS:	071513
M. ID:	101493.01
PHASE:	BID SET

PARCEL 86 BANK STABILIZATION PROJECT
PIERCE COUNTY, WASHINGTON
EXISTING CONDITIONS AND SHEET PILE WALL LOCATION

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PORT OF TACOMA FILE: K:\Projects\0092-Port of Tacoma\Parcel 86 Shoreline Repair Project\101493.01 - POT Parcel 86 Construction Plans\101493.01 - C3.0 (GRADING AND RESTORATION) BINDING EDGE

CONTROL POINTS (CP)		
POINT #	NORTHING	EASTING
CP-1	707702.3	1179156.4
CP-2	707678.2	1179184.2
CP-3	707669.6	1179181.0



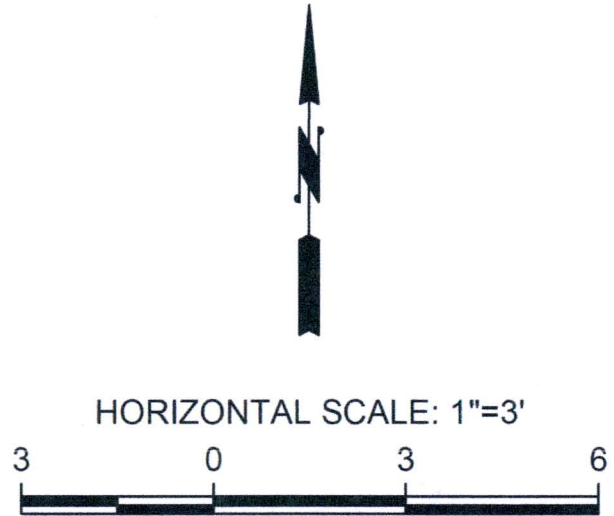
- SURVEY LEGEND**
- ⊕ STORM DRAIN MANHOLE
 - UTILITY CLEAN OUT
 - ⊕ UTILITY MANHOLE
 - BRIDGE PILE
 - ⊙ GATE POST
 - ▽ PVC VENT
 - BOUNDARY LINE
 - SD— STORM DRAIN LINE
 - - - - - ORDINARY HIGH WATER LINE (OHW)
 - WATER LINE
 - - - - - BT - - - - - TELECOM LINE
 - - - - - EXISTING CONTOURS (1 & 5' INTERVALS)
 - ||||| RAILROAD TRACKS
 - 6" CURB
 - NO LOAD AREA
 - ASPHALT SURFACE
 - GRAVEL SURFACE
 - RIP RAP SURFACE

- GENERAL LEGEND**
- P86-B-01 EXISTING GEOTECHNICAL BORING LOCATION
 - RMP-2 ● RAIL MONITORING POINT
 - PARCEL 86 PROPERTY BOUNDARY
 - MEAN HIGHER-HIGH WATER LINE (MHHW), +11.78'
 - MEAN LOW WATER LINE (MLW), +2.84'
 - HIGH TIDE LINE (HTL), +13.5'
 - - - - - 50-FOOT FISH AND WILDLIFE HABITAT CONSERVATION AREAS (FWHCA) MARINE BUFFER

- NOTES**
- AS REQUIRED, CONTRACTOR MUST CLEAR AND GRUB VEGETATION WITHIN SHEET PILE WALL ALIGNMENT.
 - CONTRACTOR MUST PROTECT ANY VEGETATION FLAGGED BY THE ENGINEER FOR PROTECTION.
 - CONTRACTOR MUST RESTORE AND SEED DISTURBED AREAS, INCLUDING THE BACKFILL AREA, PER THE SPECIFICATIONS.

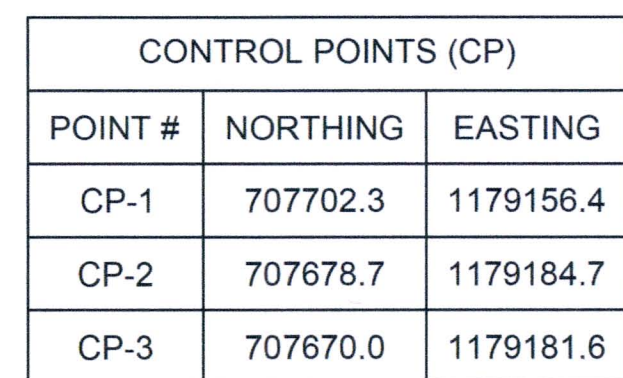
HORIZONTAL DATUM
WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83/2011

VERTICAL DATUM
MLLW (ELEVATION = 16.37')



6662 C3.0 SH 7 OF 7	PARCEL 86 BANK STABILIZATION PROJECT PIERCE COUNTY, WASHINGTON GRADING AND RESTORATION				APPROVED: <i>[Signature]</i> DIRECTOR ENGR. DATE: Jigsby Aug 17, 2021		CHECKED BY: <i>[Signature]</i> DATE: Jigsby Aug 17, 2021	ANCHOR QEA 1119 Pacific Avenue - Suite 1600 Tacoma, WA 98402 253-572-0927		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206)385-9841			
	CONTRACT/CONS: 071513	TOWNSHIP: 071513	RANGE: 19	SECTION: 39	DATE: MLLW 19:39 @ Tide 22 1933	BY: [Signature]	REVISION: [Signature]	DATE: [Signature]	MARK: 253-572-0927	BY: [Signature]	DATE: [Signature]		
M. ID: 101493.01	DATE-HRZ: WA83-SF	VERT: MLLW 19:39 @ Tide 22 1933	DRAWING SCALE: AS NOTED			PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837							
PHASE: BID SET	PARCEL:												

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PROFILE VIEW

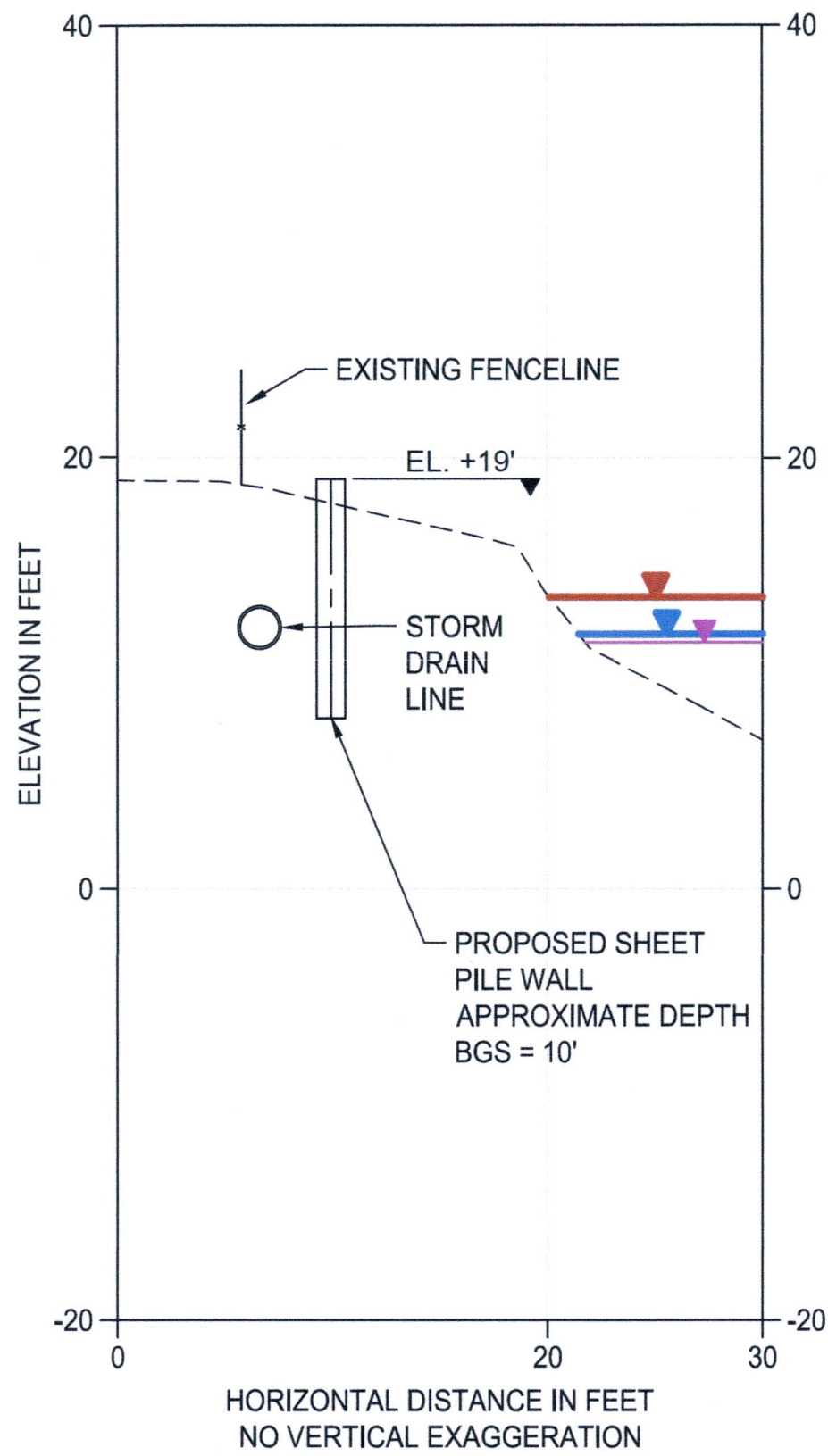
SCALE: 1" = 3'

MLLW (ELEVATION = 16.37')

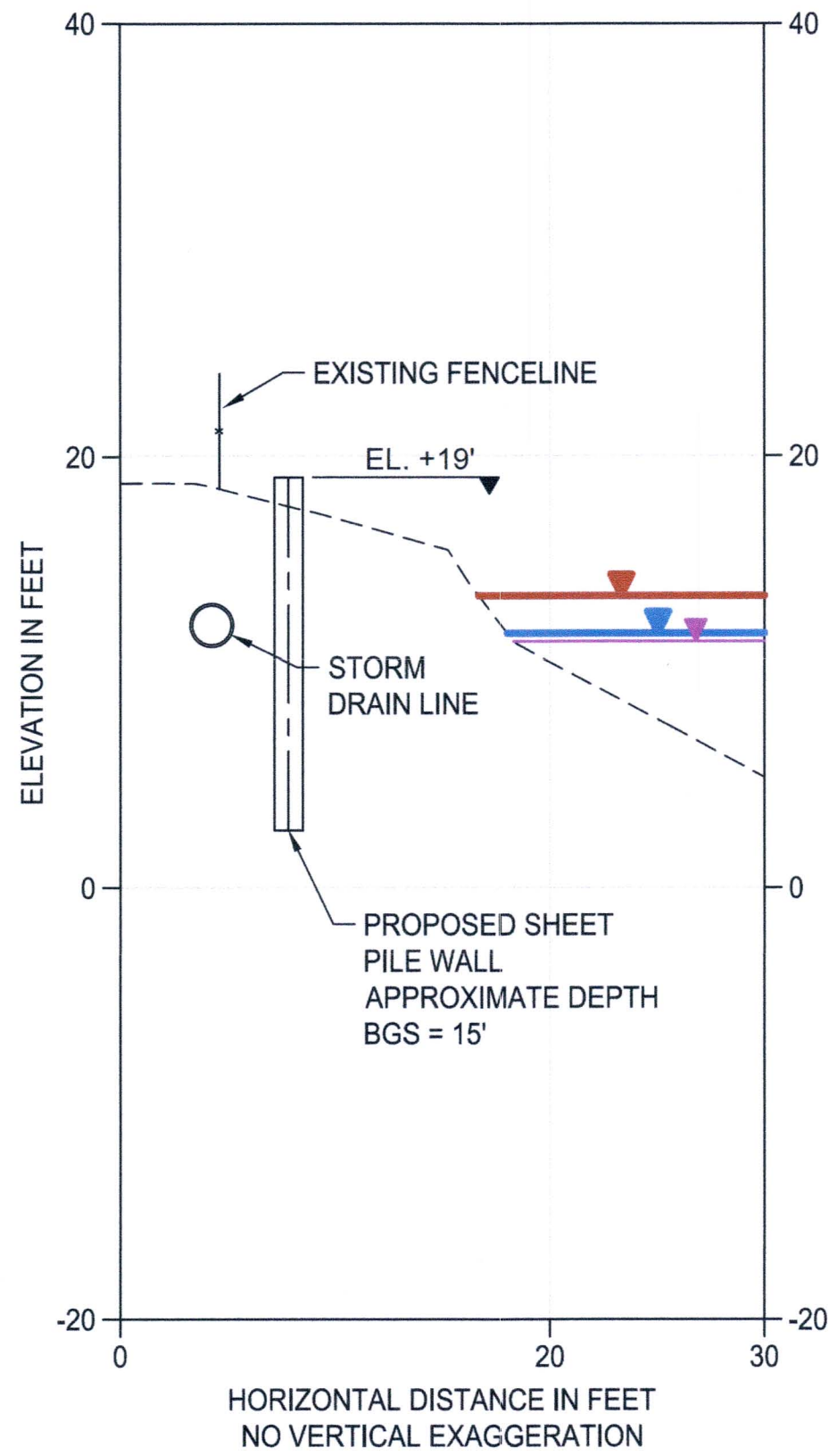
BGS BELOW GROUND SURFACE

NOTE: DO NOT COAT OR GALVANIZE STEEL SHEET PILES.

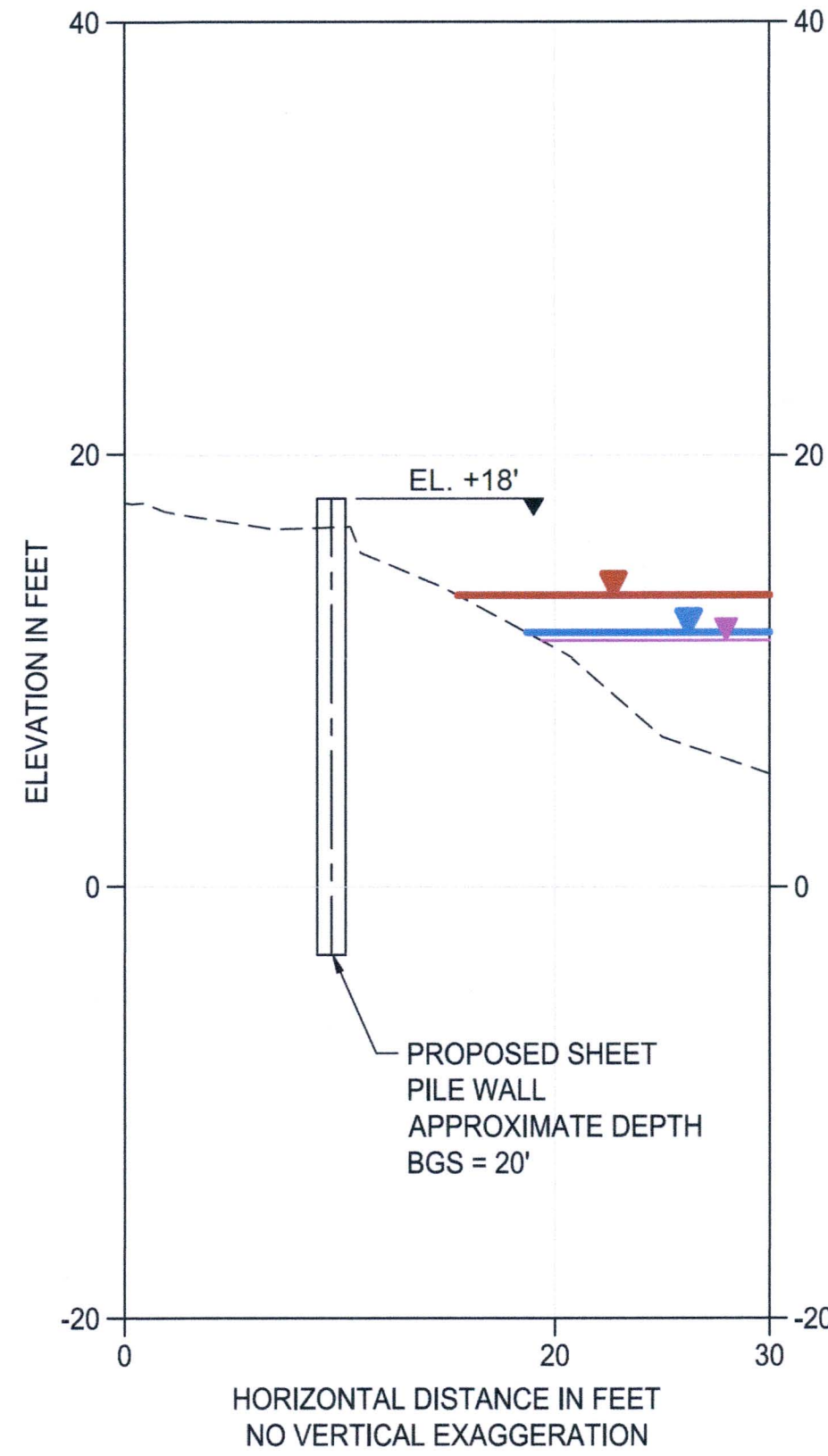
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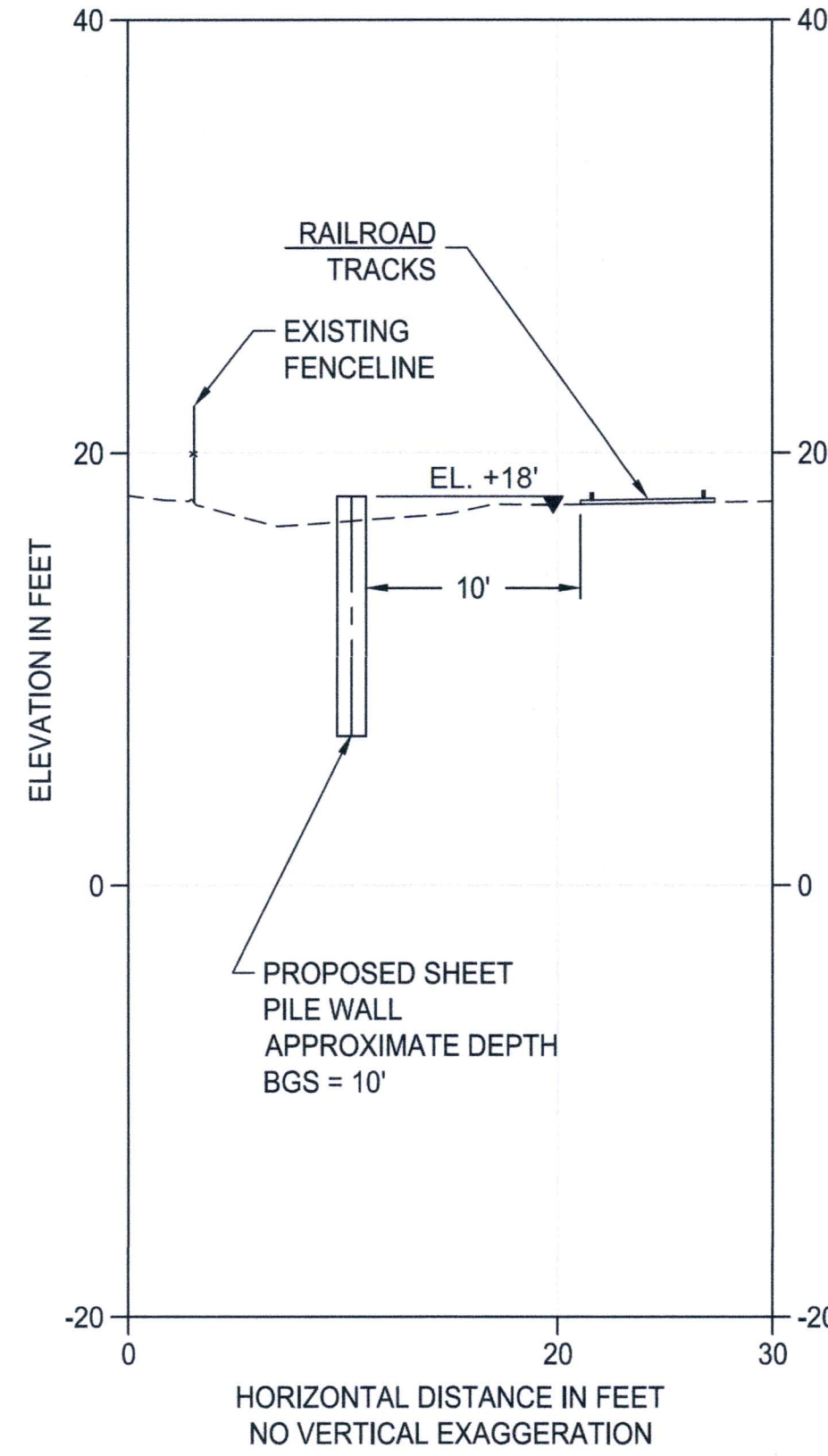
A SHEET PILE SECTION A
C3.0 SCALE: 1" = 8'



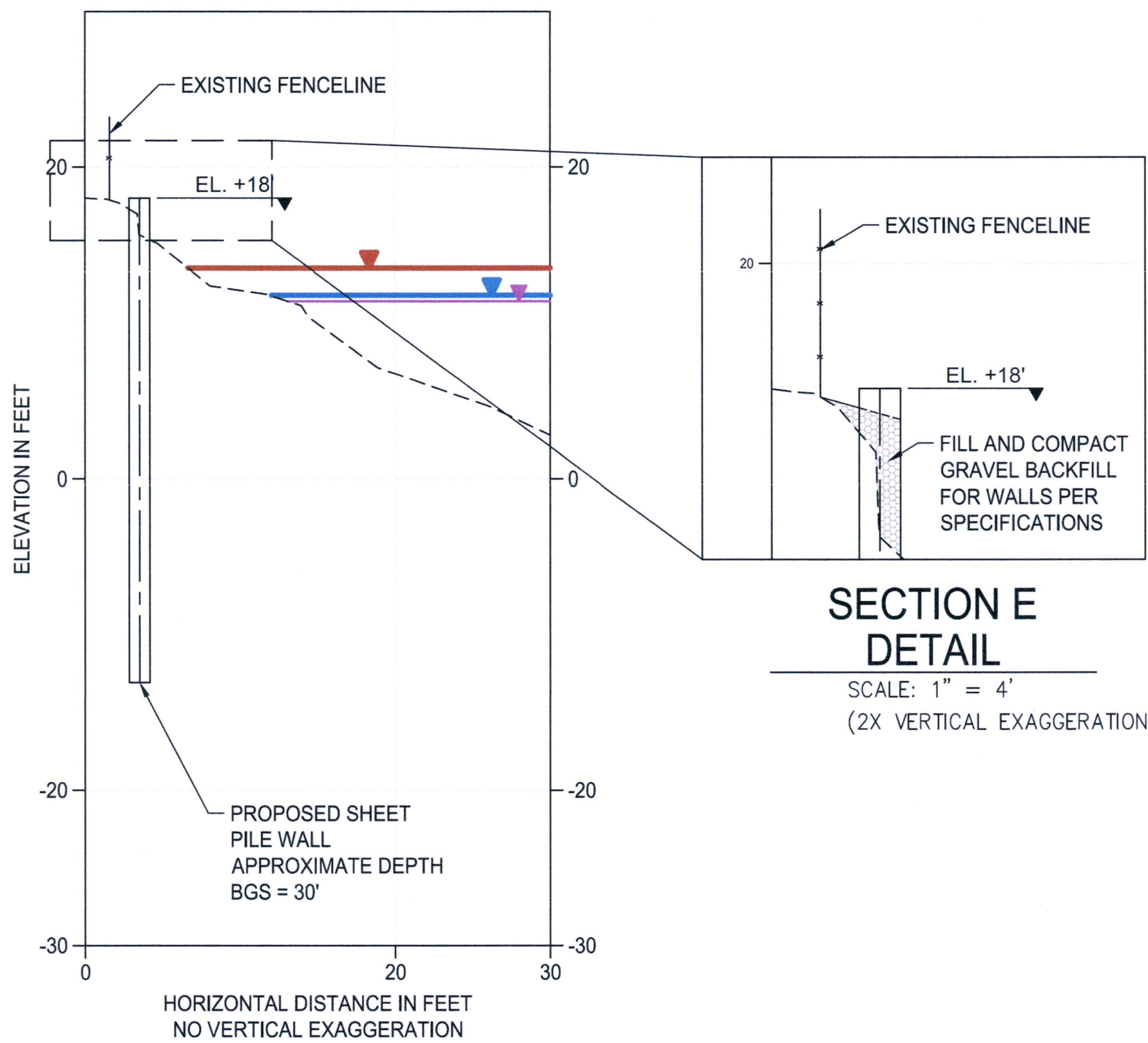
B SHEET PILE SECTION B
C3.0 SCALE: 1" = 8'



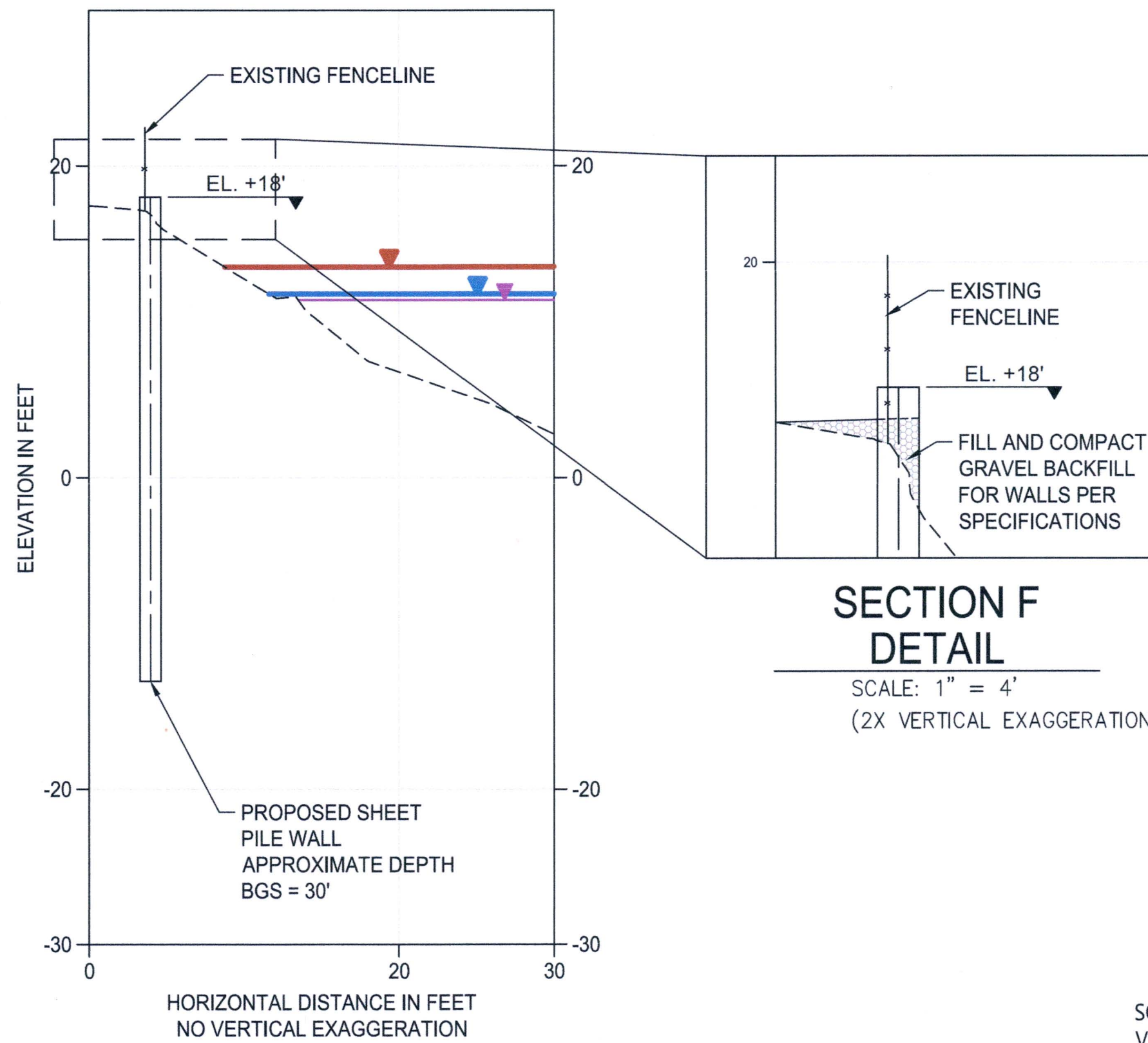
C SHEET PILE SECTION C
C3.0 SCALE: 1" = 8'



D SHEET PILE SECTION D
C3.0 SCALE: 1" = 8'



E SHEET PILE SECTION E
C3.0 SCALE: 1" = 8'

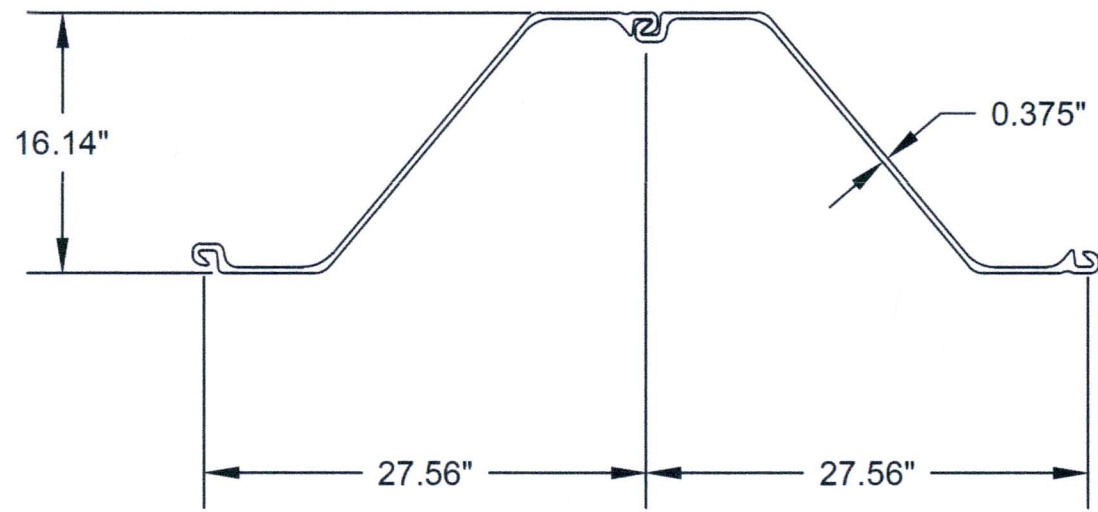


F SHEET PILE SECTION F
C3.0 SCALE: 1" = 8'

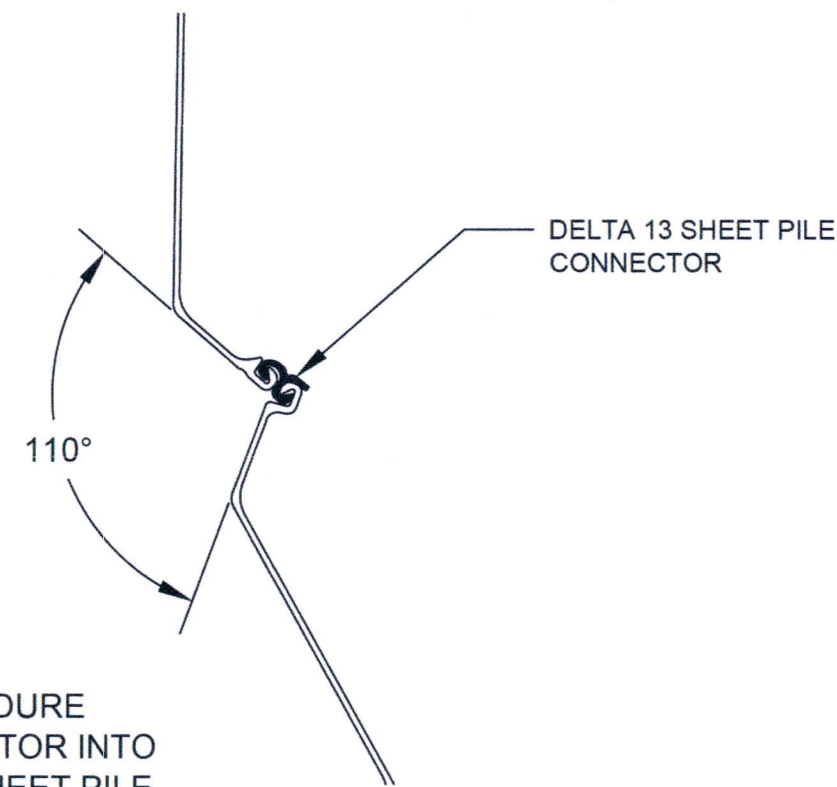
- LEGEND:
- EXISTING GROUND SURFACE
 - ORDINARY HIGH WATER (OHW, SEE NOTE 1)
 - MEAN HIGHER-HIGH WATER (MHHW), +11.78'
 - HIGH TIDE LINE, +13.5'

- SOURCE: SURVEY BY SITTS & HILL, DATED JUNE 2020.
VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW)
- NOTES:
- LOCATION OF OHW MARK SHOWN IN SECTION E-E' WAS APPROXIMATED BASED ON OBSERVATIONS ALONG ADJACENT NON-ERODED SHORELINE AREAS.
 - BGS: BELOW GROUND SURFACE

6662 C5.0 SH 5 OF 7	PARCEL 86 BANK STABILIZATION PROJECT PIERCE COUNTY, WASHINGTON SHEET PILE WALL SECTIONS				ANCHOR QEA 1119 Pacific Avenue - Suite 1600 Tacoma, WA 98402 253-572-0927		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (203)85-5641
	CONT./CONS: 071513	TOWNSHIP: WA83-SF	RANGE: 19.39' @ Tide 22 19.33	SECTION: MLLW 19.39' @ Tide 22 19.33	MARK:	REVISION:	DATE:
	M. ID: 101493.01	DAT-HRZ:	VERT: AS NOTED	PRINTED BY: jbiggsby Aug 17, 2021	BY:	APPR:	
	PHASE: BID SET	PARCEL:	DRAWING SCALE:	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			

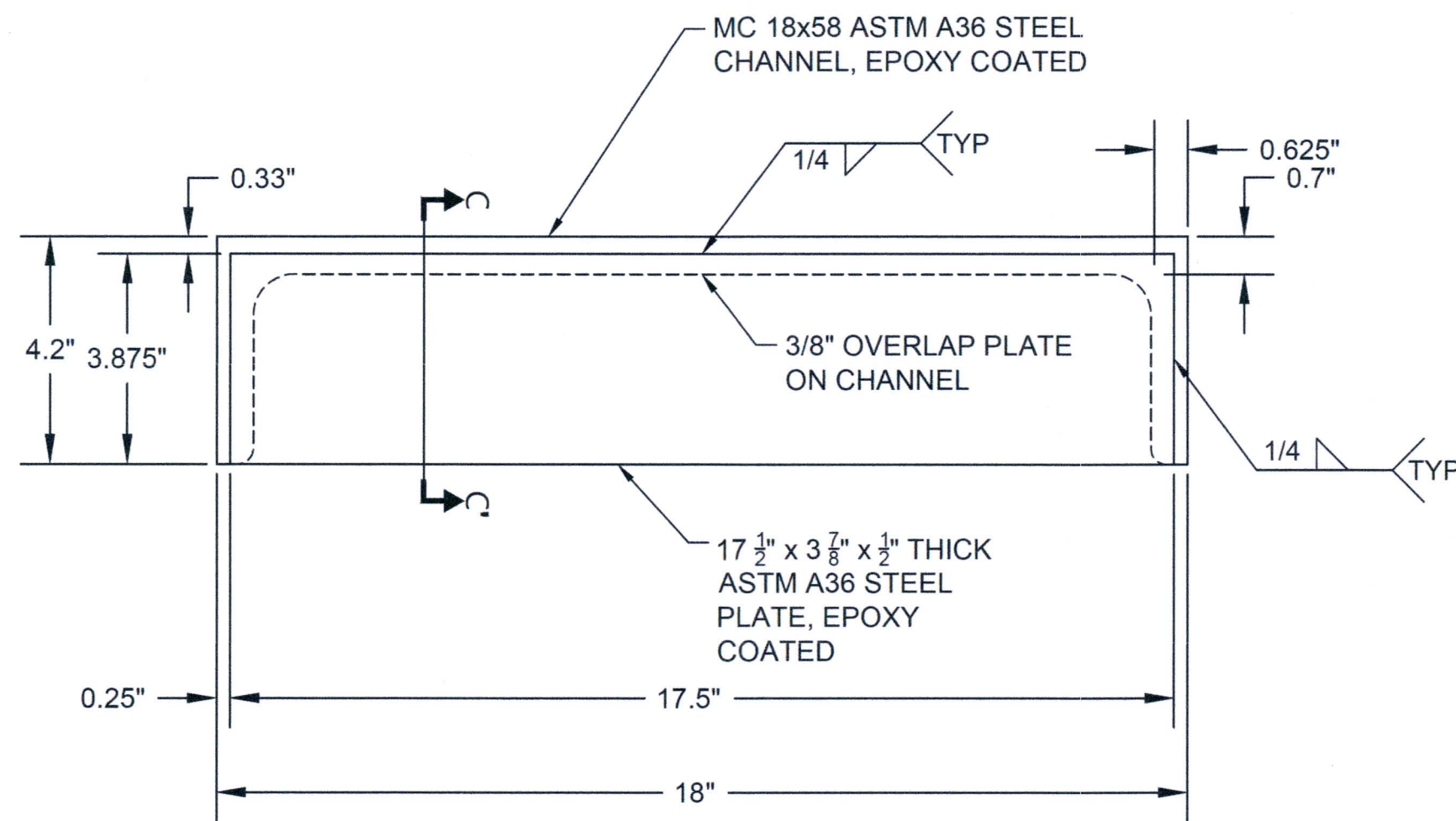


1 NZ 19 SHEET PILE
C4.0 SCALE: 1" = 1'-0"

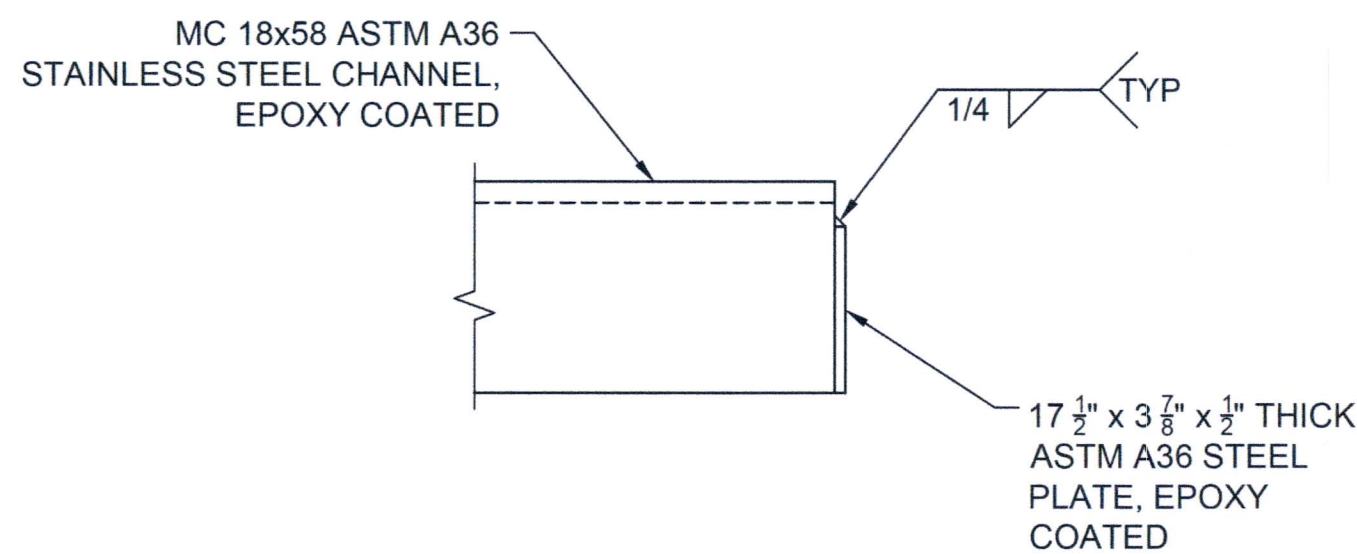


ATTACHMENT PROCEDURE
1. THREAD CONNECTOR INTO INTERLOCK OF SHEET PILE.
2. TACK WELD CONNECTOR TO PILE

2 DELTA 13 SHEET PILE CONNECTOR
C4.0 SCALE: 1" = 1'-0"

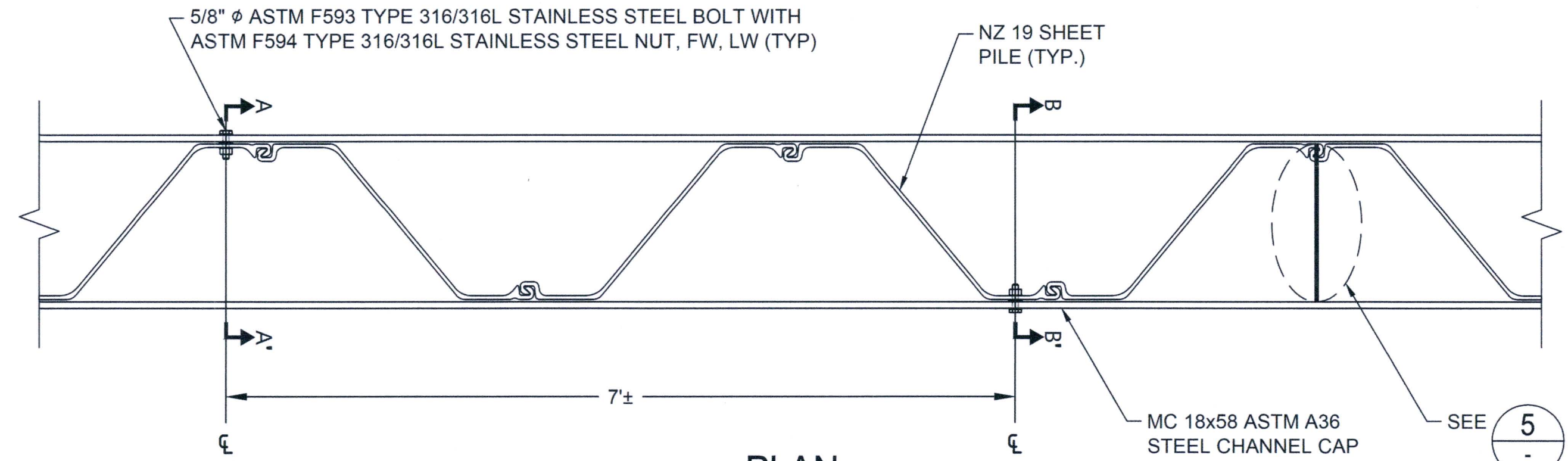


END CAP ELEVATION
SCALE: 1/4" = 1'-0"

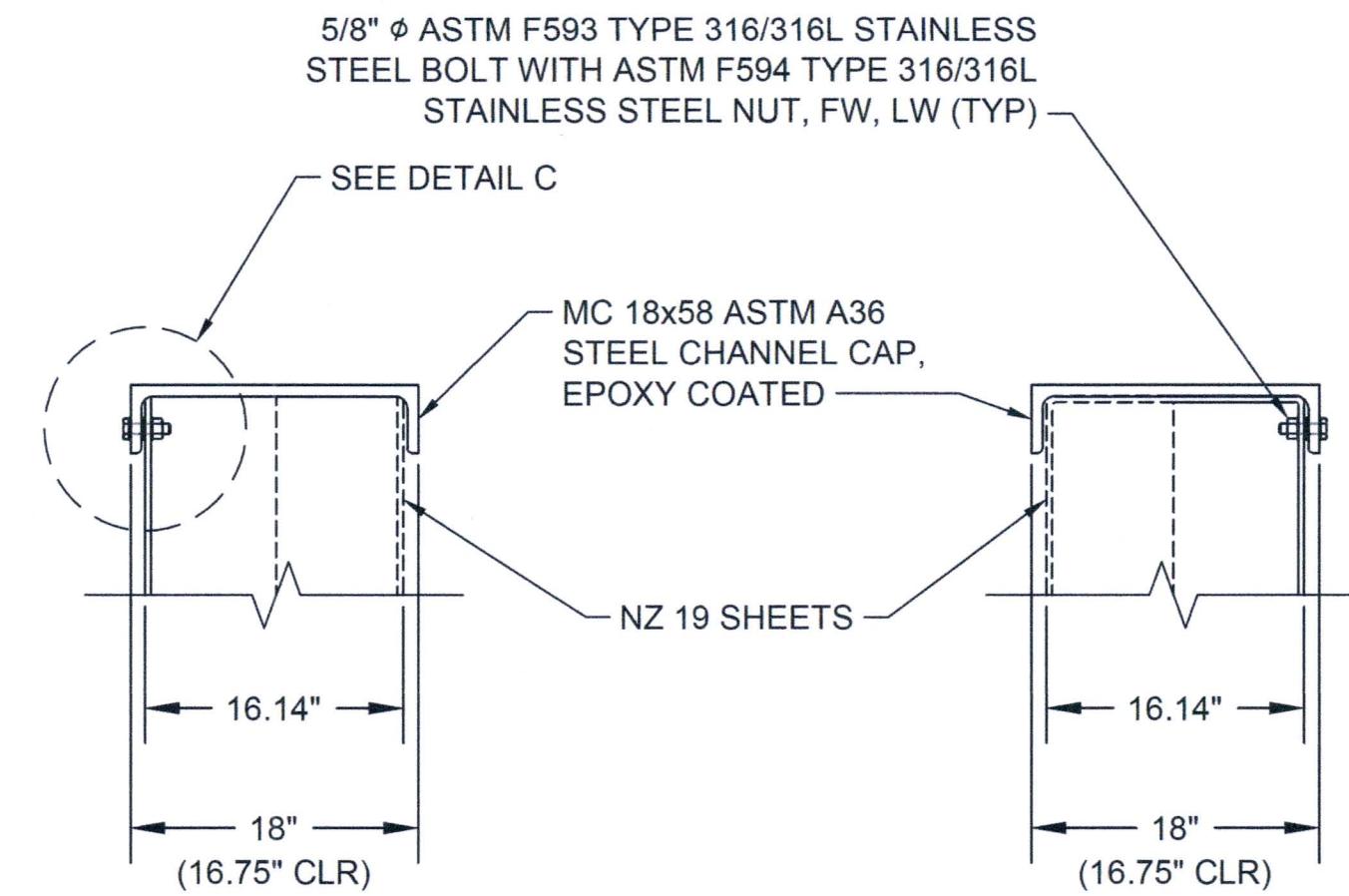


SECTION C-C'
SCALE: 1/4" = 1'-0"

4 CHANNEL END CAPS
C4.0 SCALE: 1/4" = 1'-0"

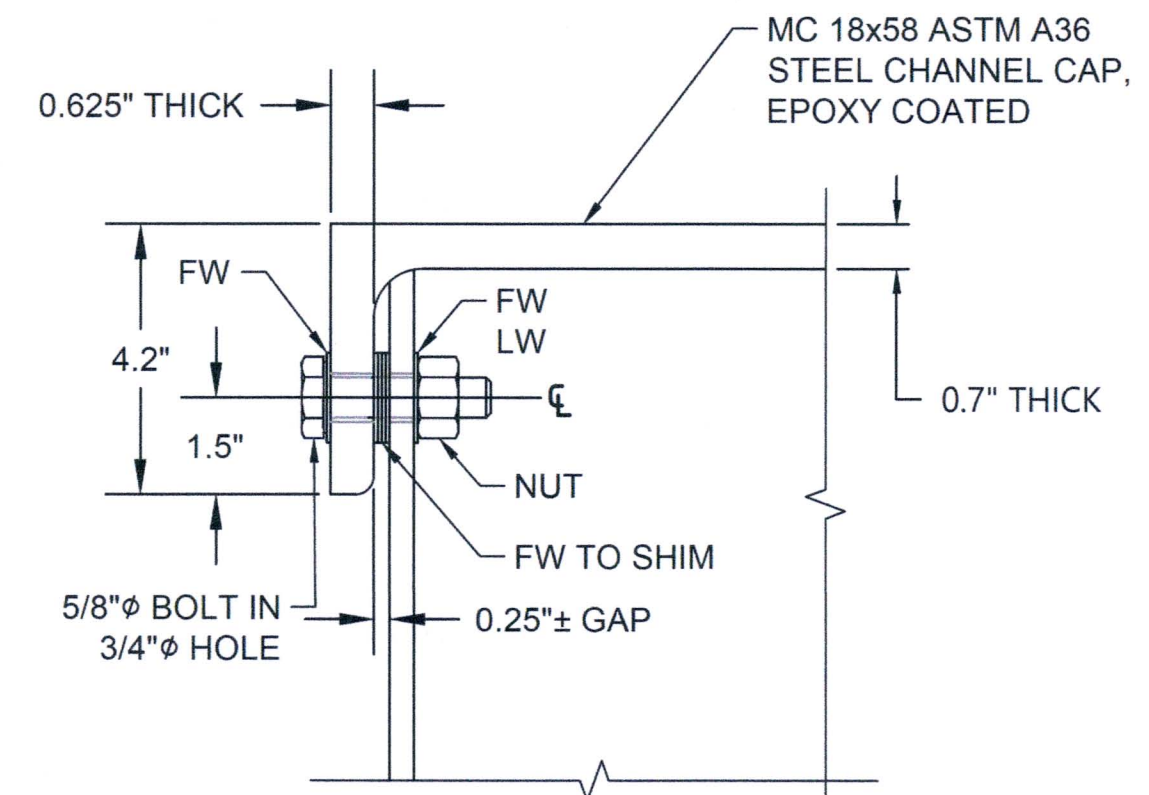


PLAN
SCALE: 1" = 1'-0"



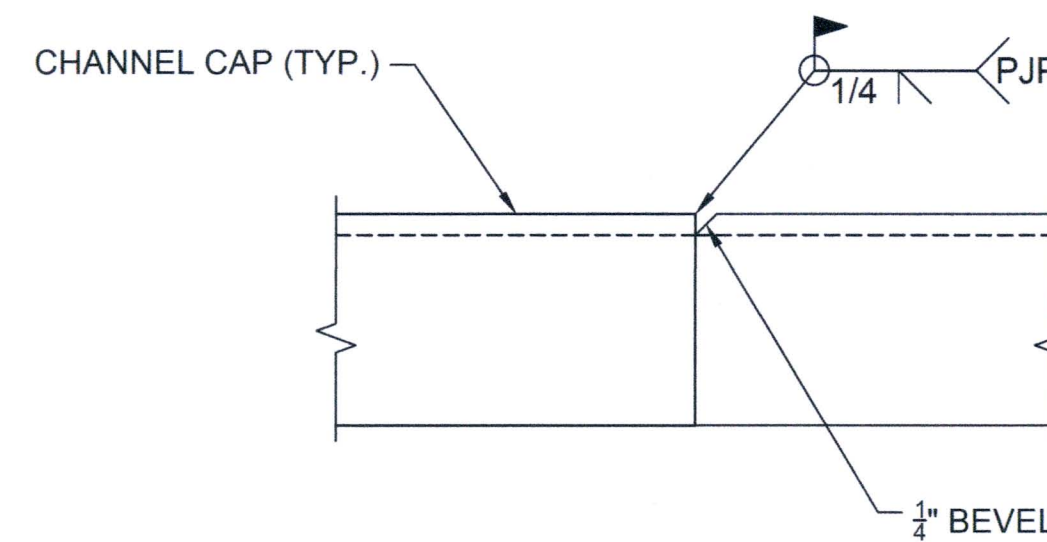
SECTION A-A'
SCALE: 1" = 1'-0"

SECTION B-B'
SCALE: 1" = 1'-0"



DETAIL C
SCALE: 1/4" = 1'-0"

3 CAP CONSTRUCTION
C4.0 SCALE: 1" = 1'-0"



5 BEVEL WELD AT ADJOINING CAPS
C4.0, C6.0 SCALE: 1/4" = 1'-0"

NOTES:

- EPOXY COAT CARBON STEEL SHEETS, CHANNEL, CAPS, AND OTHER SHAPES WITH TWO COATS IN ACCORDANCE WITH THE SPECIFICATIONS. STAINLESS STEEL OR A690 GRADE STEEL SHALL NOT BE COATED.
- DRILL HOLES FOR BOLTS PRIOR TO COATING.
- PROVIDE 3" HOLD BACK OF EPOXY COATING AT WELD TOES ON CARBON STEEL SHAPES TO BE FIELD WELDED. COAT WELDS AFTER FIELD WELDING IN ACCORDANCE WITH THE SPECIFICATION. DO NOT COAT STEEL TYPES LISTED IN NOTE 1.