

PORT OF TACOMA

PARCEL 86 SHORELINE REPAIR PROJECT 50% DESIGN PROJECT NO. 101493.01 CONTRACT NO. 071513

PORT COMMISSIONERS:

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

PORT STAFF:

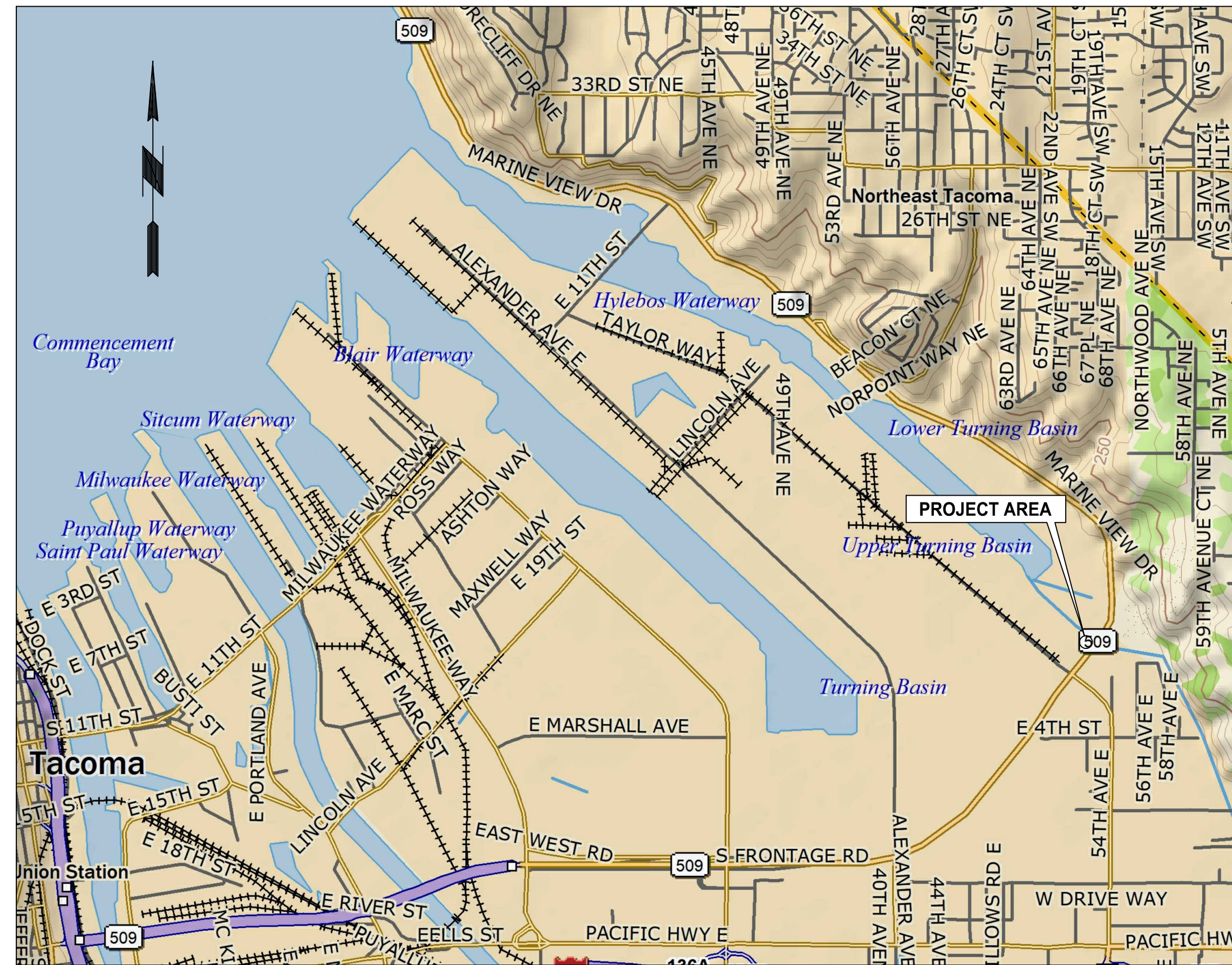
JOHN WOLFE
NWSA Chief Executive Officer

ERIC JOHNSON
Port of Tacoma Executive Director

DAKOTA CHAMBERLAIN, P.E.
Director of Facilities
Development

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	SHEET PILE WALL PLAN AND PROFILE	0
C4.0	5	SHEET PILE WALL SECTIONS	0
C5.0	6	DETAILS	0
C6.0	7	GRADING AND RESTORATION	0

CONSULTANT:



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



CHECKED BY:	DATE:
DIRECTOR ENG. DATE:	PROJ. ENGR DATE:
PRINTED BY: jgigsby	Feb 26, 2021
PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837

APPROVED:

PARCEL 86 SHORELINE REPAIR PROJECT
50% DESIGN
COVER PAGE

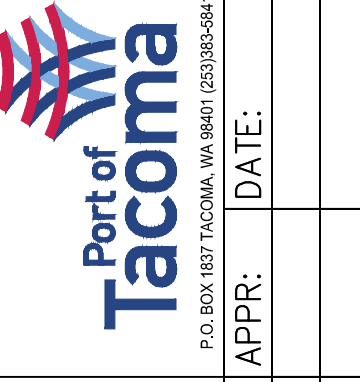
SHEET SUBTITLE

TOWNSHIP: SECTION: RANGE: MLLW 19.39 @ Tide 22 1933

DAT-HRZ: WA83-SF VERT: DRAWING SCALE: AS NOTED

6662
G1.0
SH 1 OF 7

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



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MARK: REVISION: BY: APPR: DATE:

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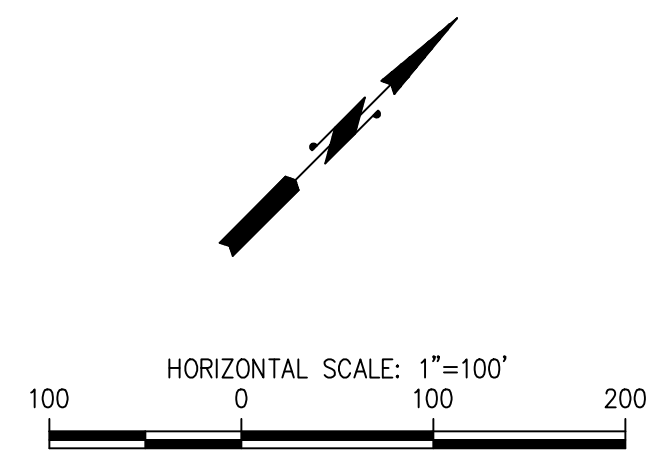
PORT OF TACOMA FILE: K:\Projects\0092-Port of Tacoma\Parcel 86 Shoreline Repair\Project\0092 - POT Parcel 86 Construction Plans\0092 - 50% Design\0092 - G1.0 (COVER PAGE)



LEGEND
 → PROJECT ACCESS ROUTE

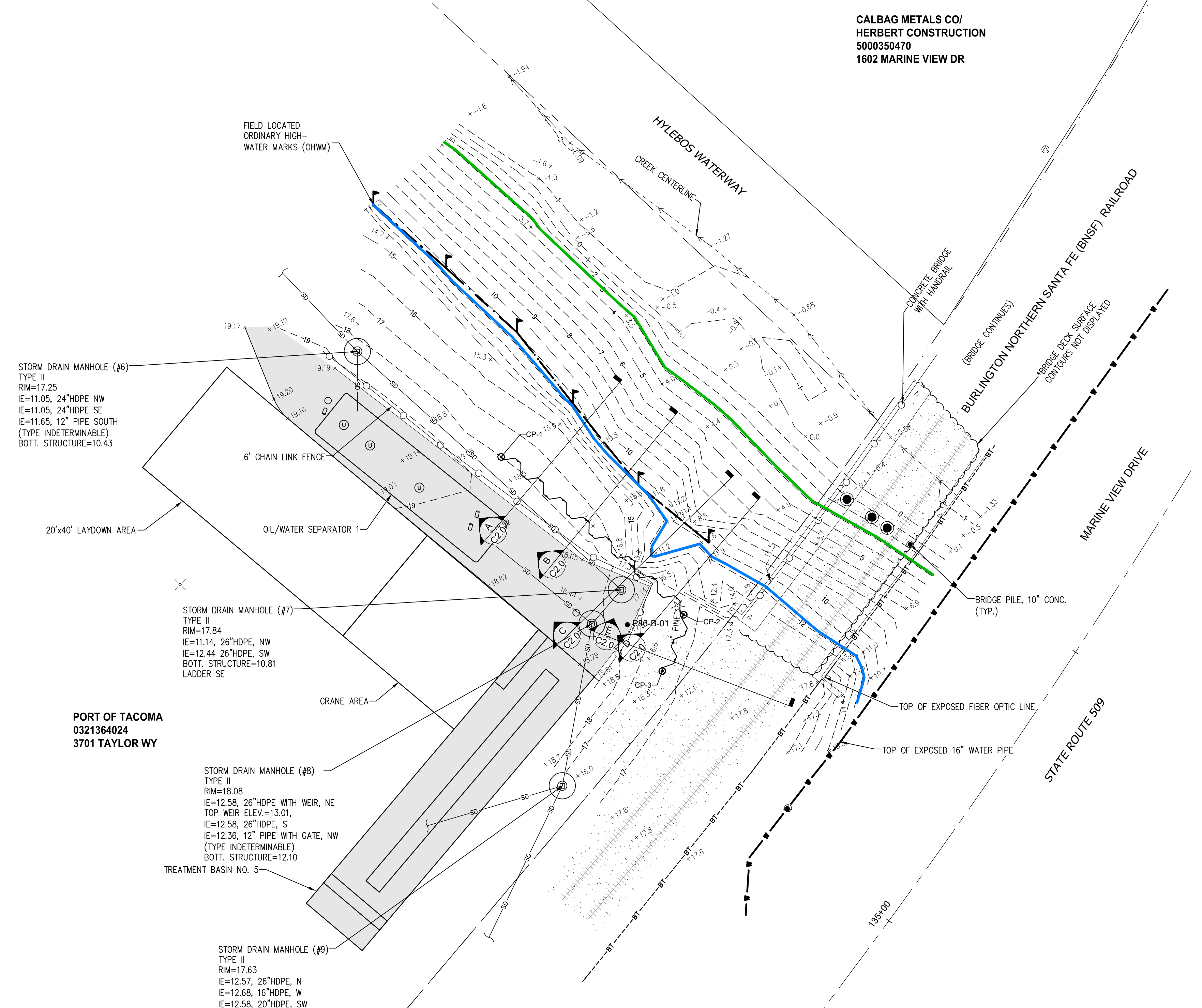
HORIZONTAL DATUM
 WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE,
 NAD 83/2011
 (PER PORT OF TACOMA SURVEY CONTROL MAP - 2016)

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



C1.0 SH 2 OF 7	PARCEL 86 SHORELINE REPAIR PROJECT PIERCE COUNTY, WASHINGTON PROJECT LAYOUT AND ACCESS		PRELIMINARY								
	CONTR/CONS:	TOWNSHIP:	RANGE:	SECTION:				CHECKED BY:	DATE:	MARK:	REVISION:
M. ID:	DAT-HRZ:	WA83-SF	VERT:	MLLW 19.39 @ Tide 22 1933	DIRECTOR ENG. DATE:	PROJ. ENGR DATE:					
PHASE:	PARCEL:	DRAWING SCALE: AS NOTED		PRINTED BY: jigsby Feb 26, 2021		PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837					

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CALBAG METALS CO/
HERBERT CONSTRUCTION
5000350470
1602 MARINE VIEW DR

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

SURVEY LEGEND

- ⊗ FOUND MONUMENT AS NOTED
- ⊗ SURVEY CONTROL POINT
- ⊗ STORM DRAIN MANHOLE
- UTILITY CLEAN OUT
- ⊗ UTILITY MANHOLE
- ⊗ MONITORING WELL
- ⊗ CONIFER TREE
- TPN TAX PARCEL NUMBER
- PVC VENT
- ⊗ ORDINARY HIGH WATER MARK
- BOUNDARY LINE
- STORM DRAIN LINE
- ORDINARY HIGH WATER LINE (OHW)
- WATER LINE
- TELECOM LINE
- RIGHT OF WAY
- EXISTING CONTOURS (1 & 5' INTERVALS)
- NO LOAD AREA
- CONCRETE SURFACE
- GRAVEL SURFACE

GENERAL LEGEND

- P86-B-01 EXISTING GEOTECHNICAL BORING LOCATION
- 0321364024 PARCEL BOUNDARY AND IDENTIFICATION
- PARCEL 86 PROPERTY BOUNDARY
- MEAN HIGHER-HIGH WATER LINE (MHHW), +11.78'
- MEAN LOW WATER LINE (MLW) +2.84'

SURVEY NOTES

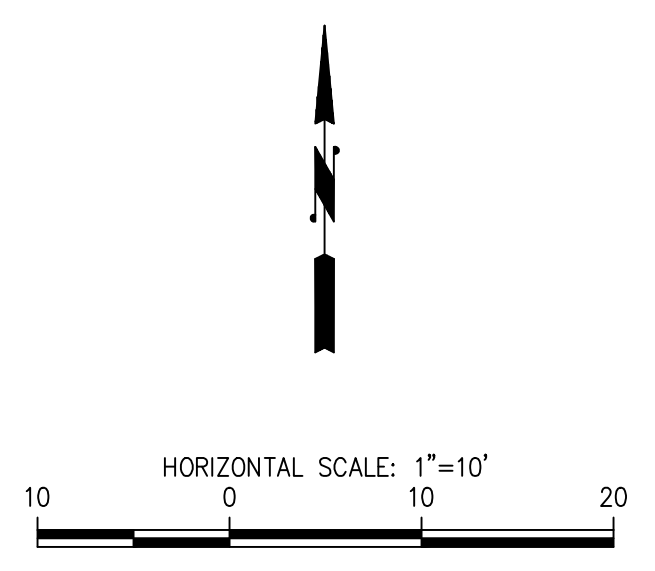
- SURVEY AND NOTES PROVIDED BY SITTS & HILL ENGINEERS, INC., DATED 7/24/2020.
- EQUIPMENT USED: TOPCON QS ROBOTIC TOTAL STATION OR CARLSON GEOMAX CR2 ROBOTIC TOTAL STATION OR TOPCON GR3 GPS UNIT.
- THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE WITH THE FINAL RESULTS MEETING OR EXCEEDING THE CURRENT TRAVERSE STANDARDS CONTAINED IN W.A.C. 332-130-090. ALL MEASUREMENTS WERE MADE WITH A TOPCON QS ROBOTIC TOTAL STATION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- IN ACCORDANCE WITH THE REVISED CODE OF WASHINGTON (R.C.W.) 58.09 AND THE WASHINGTON ADMINISTRATIVE CODE (W.A.C.) 332-130, THIS SURVEY MAY DEPICT OCCUPATIONAL INDICATORS THAT DIFFER FROM THE DEEDED LOT LINES. THESE INDICATORS, IF AT ALL PRESENT, MAY REPRESENT A POTENTIAL FOR CLAIMS OF UNWRITTEN TITLE. THIS SURVEY DOES NOT PURPORT TO RESOLVE SUCH ITEMS.
- THE FIELD WORK SHOWN HEREON WERE PERFORMED IN JUNE, 2020 UNDER SITTS & HILL PROJECT NUMBER 18890.
- 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.
- THIS SURVEY COMPLIES WITH W.A.C. 332-130-145. THE CONTOURS DEPICTED HEREON ARE BASED ON DATA FROM DIRECT FIELD MEASUREMENTS. SPOT ELEVATIONS ARE BASED ON DIRECT FIELD MEASUREMENTS AND ARE DEPICTED FOR REFERENCE. THE PURPOSE OF THIS TOPOGRAPHIC MAP IS TO SERVE AS A BASE MAP FOR CONTEMPLATED SITE IMPROVEMENTS AND DESIGN.
- ORDINARY HIGH WATER POSITIONS FLAGGED BY CLIENT—PROVIDED WETLAND BIOLOGIST, AND FIELD LOCATED DURING THE SITE MAPPING.

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"
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 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



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 253-572-0927

ANCHOR OEA

DATE: _____
 APPR: _____
 BY: _____
 REVISION: _____
 MARK: _____

PRELIMINARY

APPROVED:	CHECKED BY:	DATE:	DATE:
	DIRECTOR ENGR. DATE:	PROJ. ENGR. DATE:	
	PRINTED BY: jigsby	Feb 26, 2021	
	PORT ADDRESS: ONE SITCUM PLAZA		
	TACOMA, WA 98401-1837		

6662

C2.0

SH 3 OF 7

PARCEL 86 SHORELINE REPAIR PROJECT

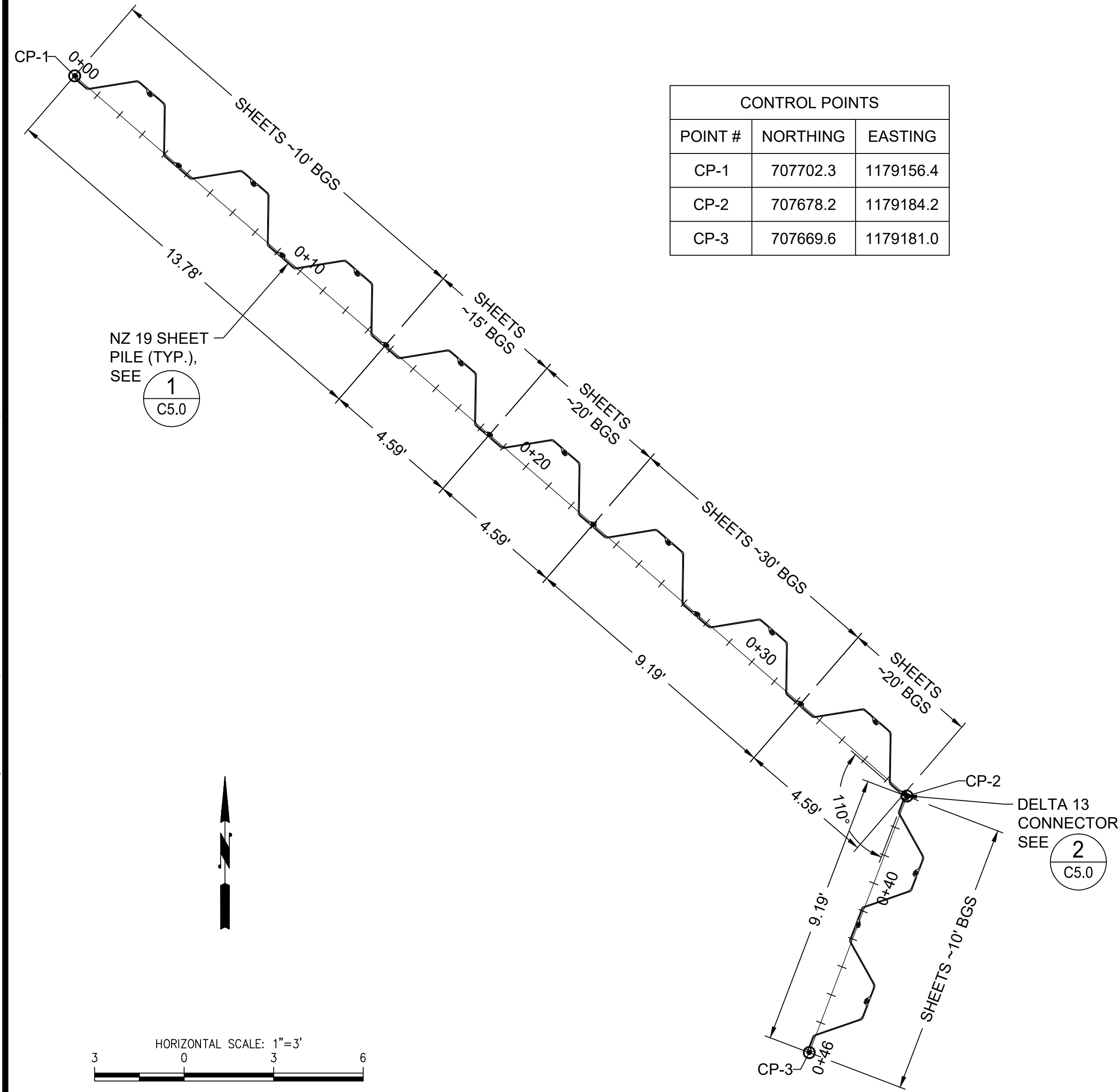
PIERCE COUNTY, WASHINGTON

EXISTING CONDITIONS AND SHEET PILE WALL LOCATION

CONTR/CONS:	TOWNSHIP:	SECTION:	SHEET SUBTITLE:
071513	WA83-SF	19-39	MLLW 19-39 @ Tide 22 1933
M. ID: 101493.01	DATE-HRZ: WA83-SF		VERT: MLLW 19-39 @ Tide 22 1933
PHASE:	DRAWING SCALE: AS NOTED		PARCEL: AS NOTED

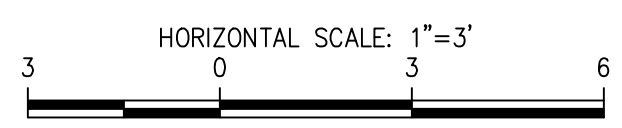
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PORT OF TACOMA FILE: K:\Projects\0092-Port of Tacoma\Parcel 86 Shoreline Repair Project\0092 - POT Parcel 86 Construction Plans\0092 - 50% Design\0092 - C3.0 (SHEETPILE WALL PLAN AND PROFILE)



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

1
SHEET PILE WALL
PLAN VIEW
SCALE: 1" = 3'



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

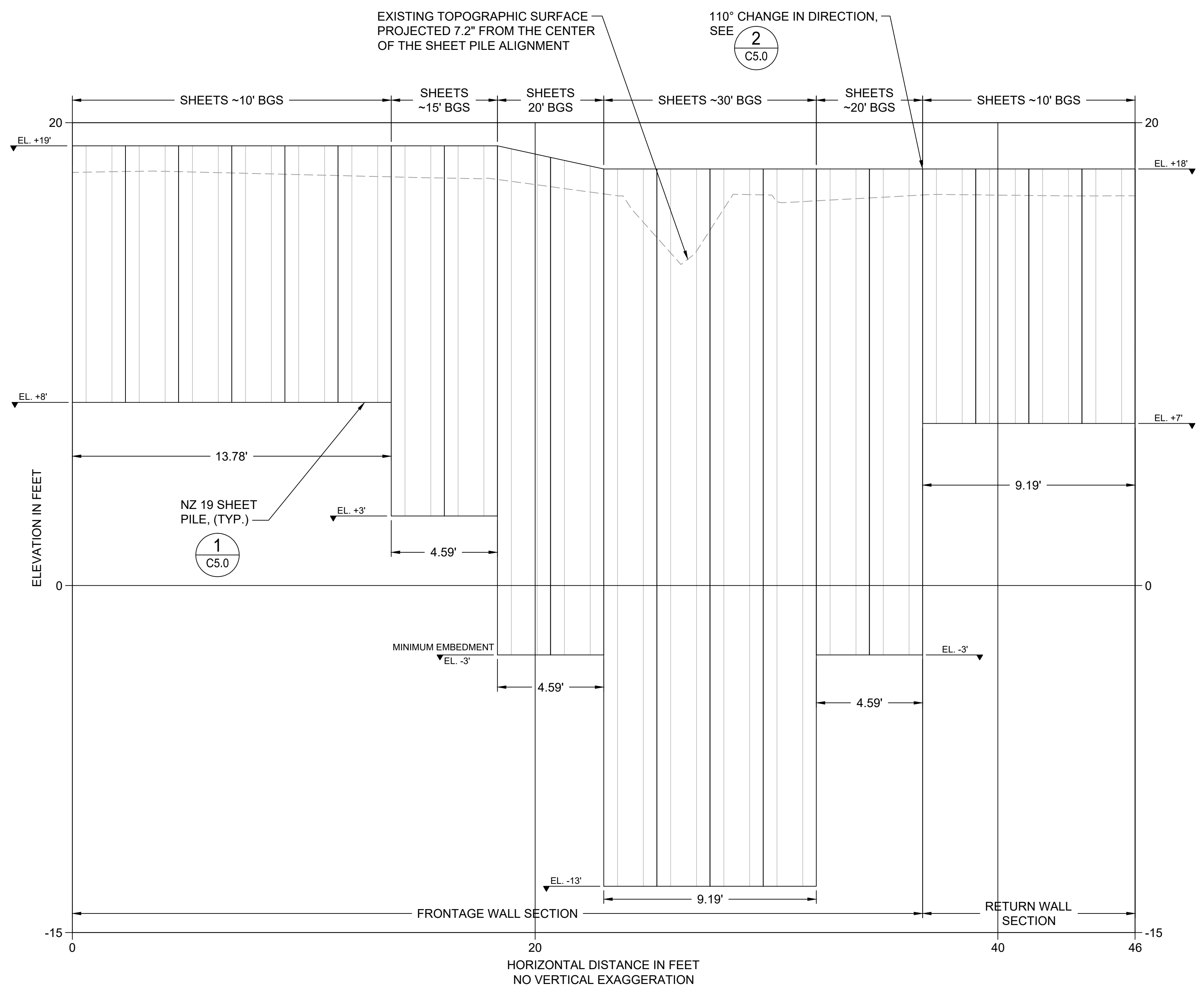
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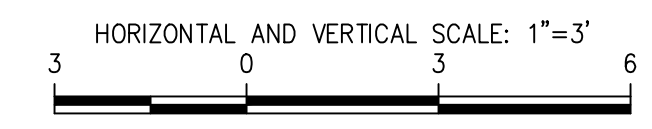
VERTICAL DATUM
MLLW (PER PORT OF TACOMA 2016 MONUMENT CONTROL MAP)

CONTROL POINT "Y": MONUMENT ON TAYLOR WAY, NEAR ITS
INTERSECTION WITH SR 509.

MLLW ELEV = 16.37



2
PROFILE VIEW
SCALE: 1" = 3'



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PRELIMINARY

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DIRECTOR ENGR. DATE: _____

PRINTED BY: J. Gigsby Feb 26, 2021

PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

6662

C3.0

SH 4 OF 7

PARCEL 86 SHORELINE REPAIR PROJECT
PIERCE COUNTY, WASHINGTON

SHEET PILE WALL PLAN AND PROFILE

TOWNSHIP: 071513 SECTION: _____

RANGE: MLLW 19.39 @ Tide 22 1933

DAT-HRZ: WA83-SF VERT: _____

PARCEL: _____ DRAWING SCALE: AS NOTED

CONT/CONS: 071513

M. ID: 101493.01

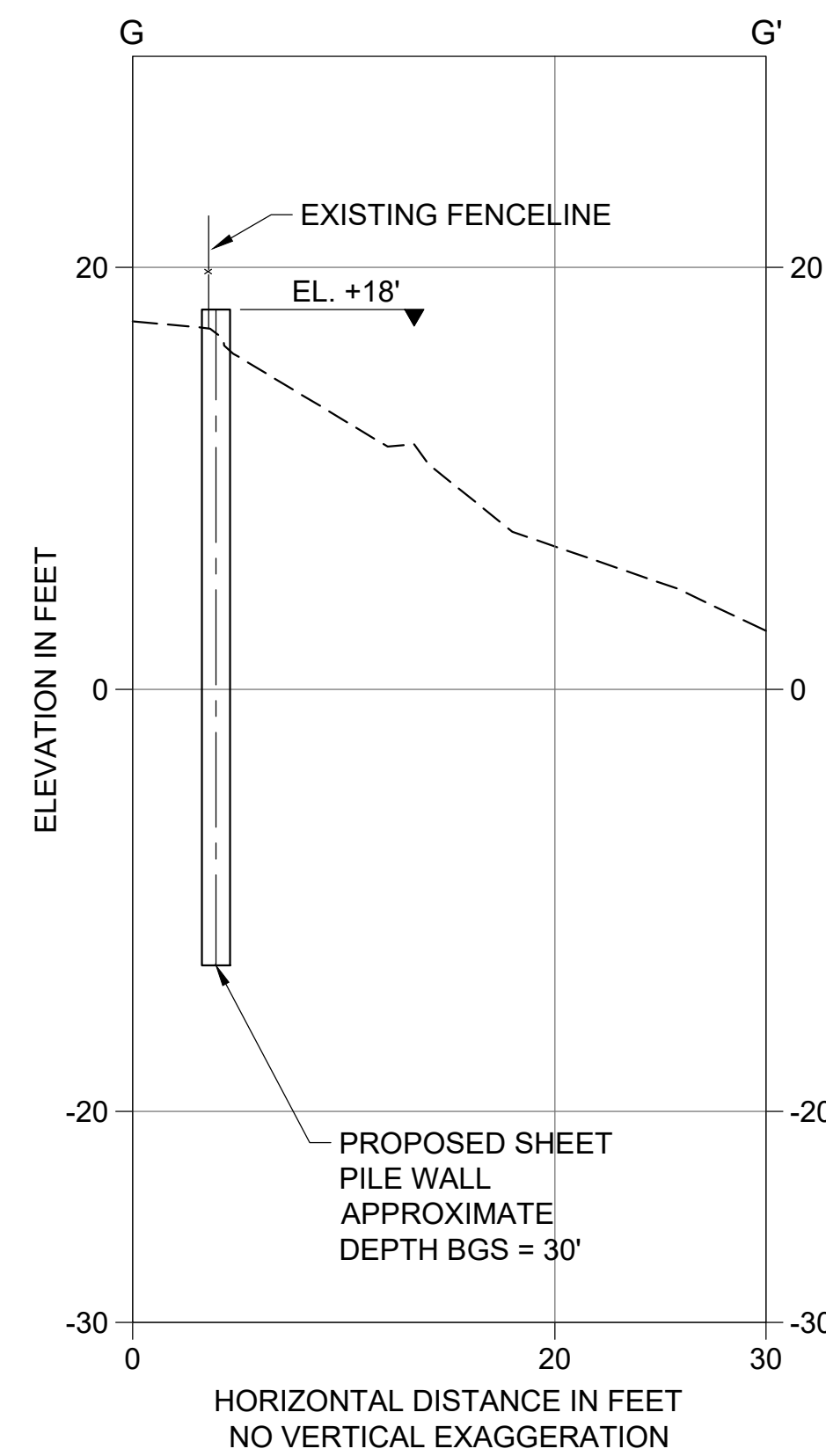
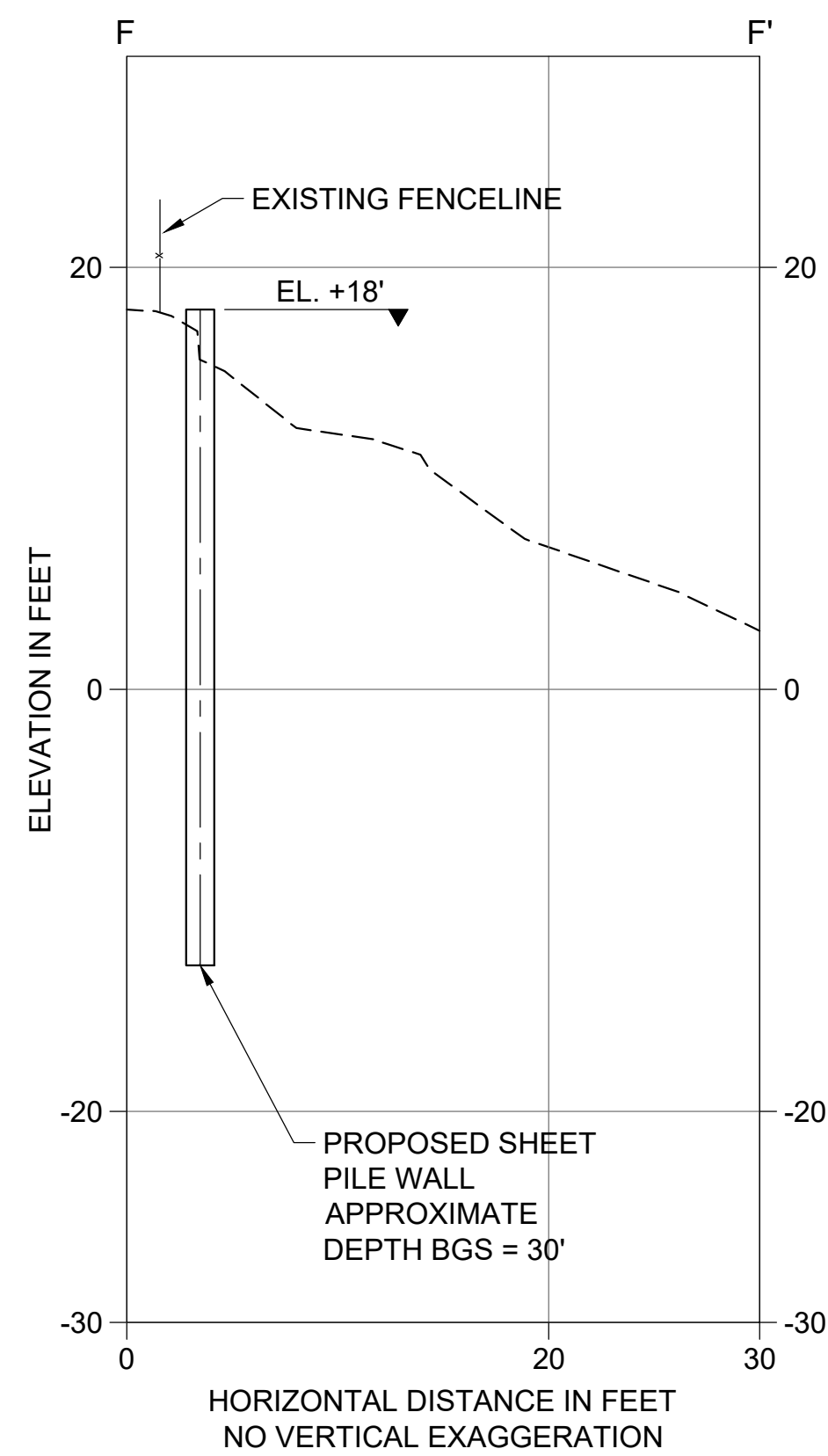
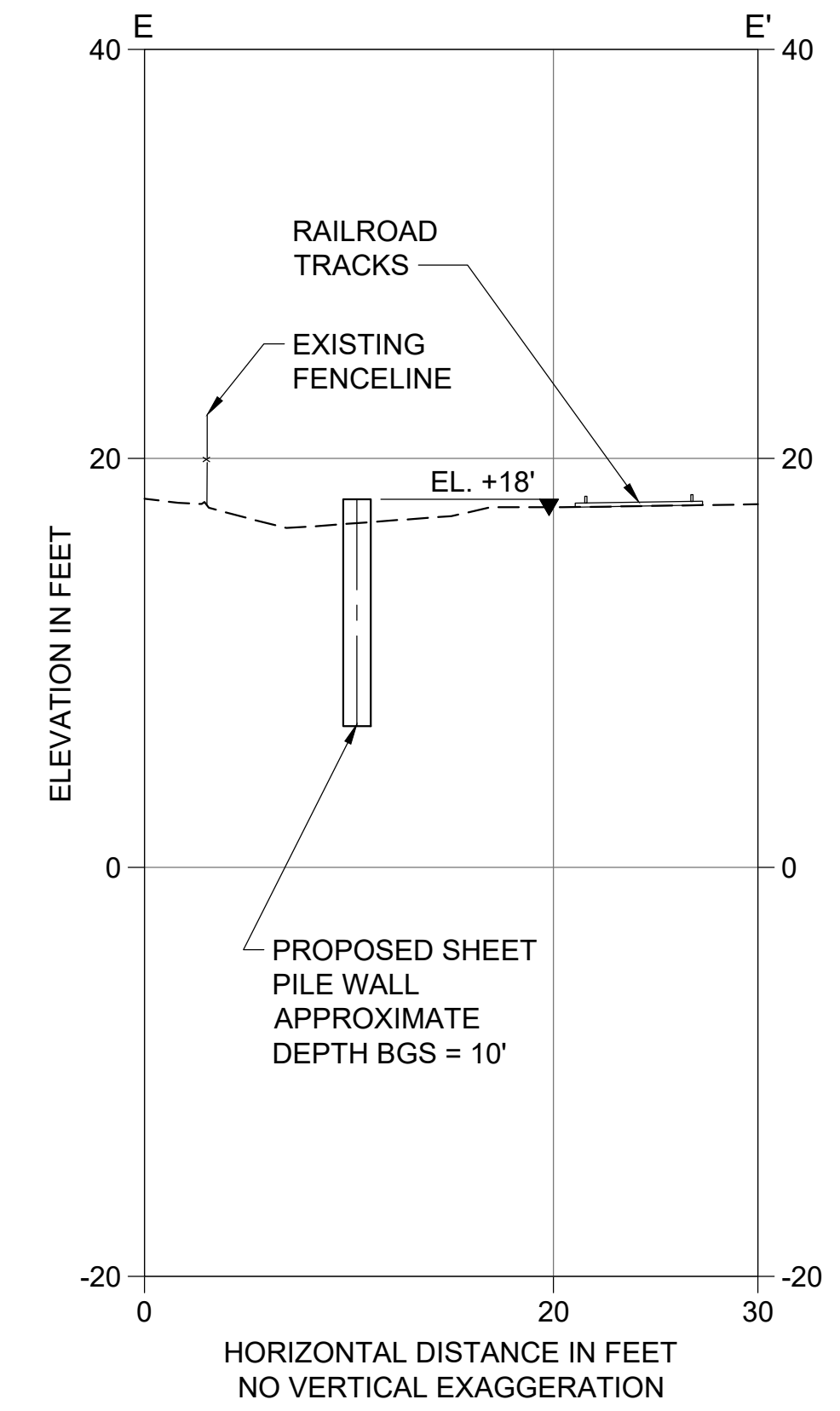
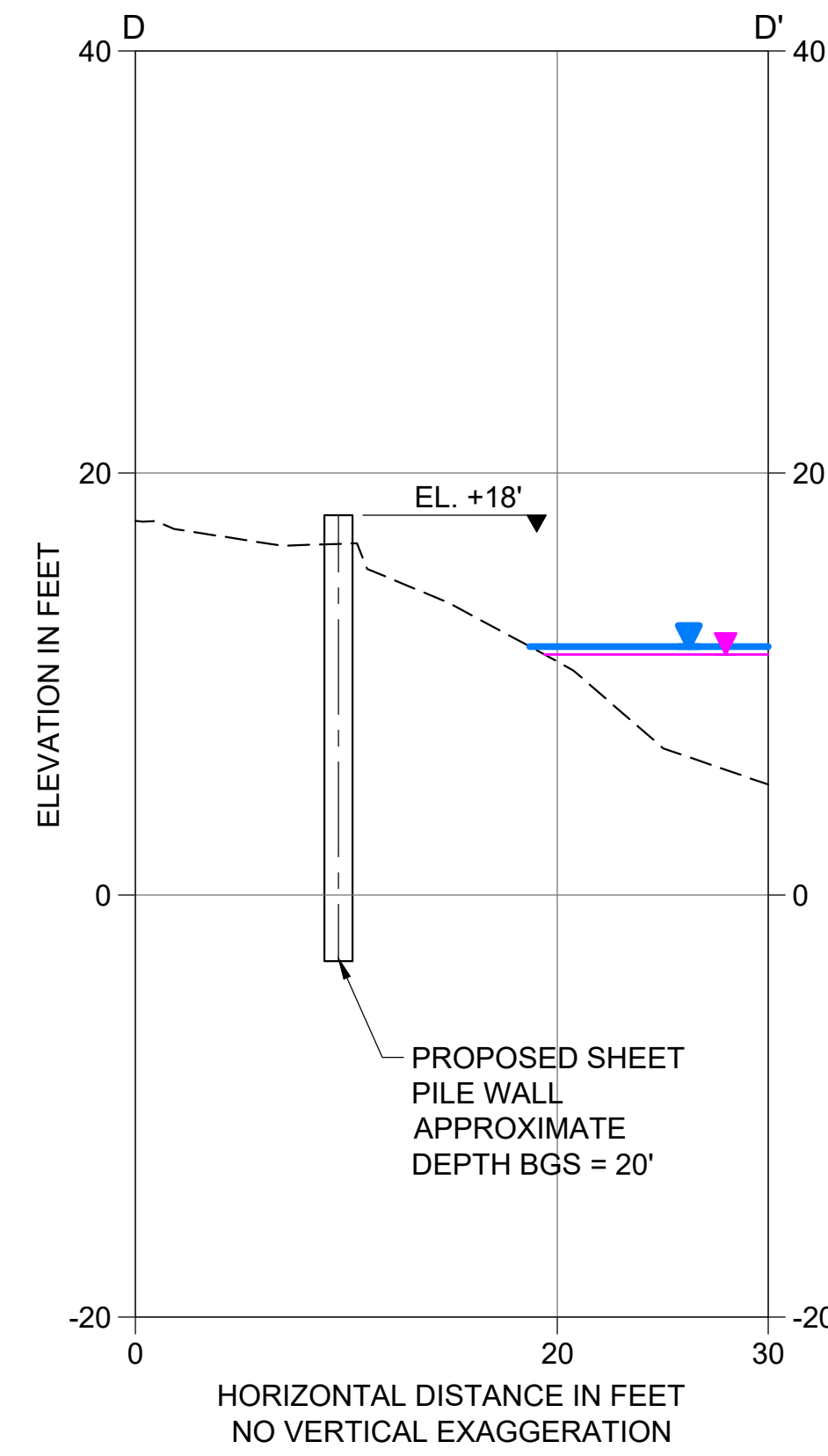
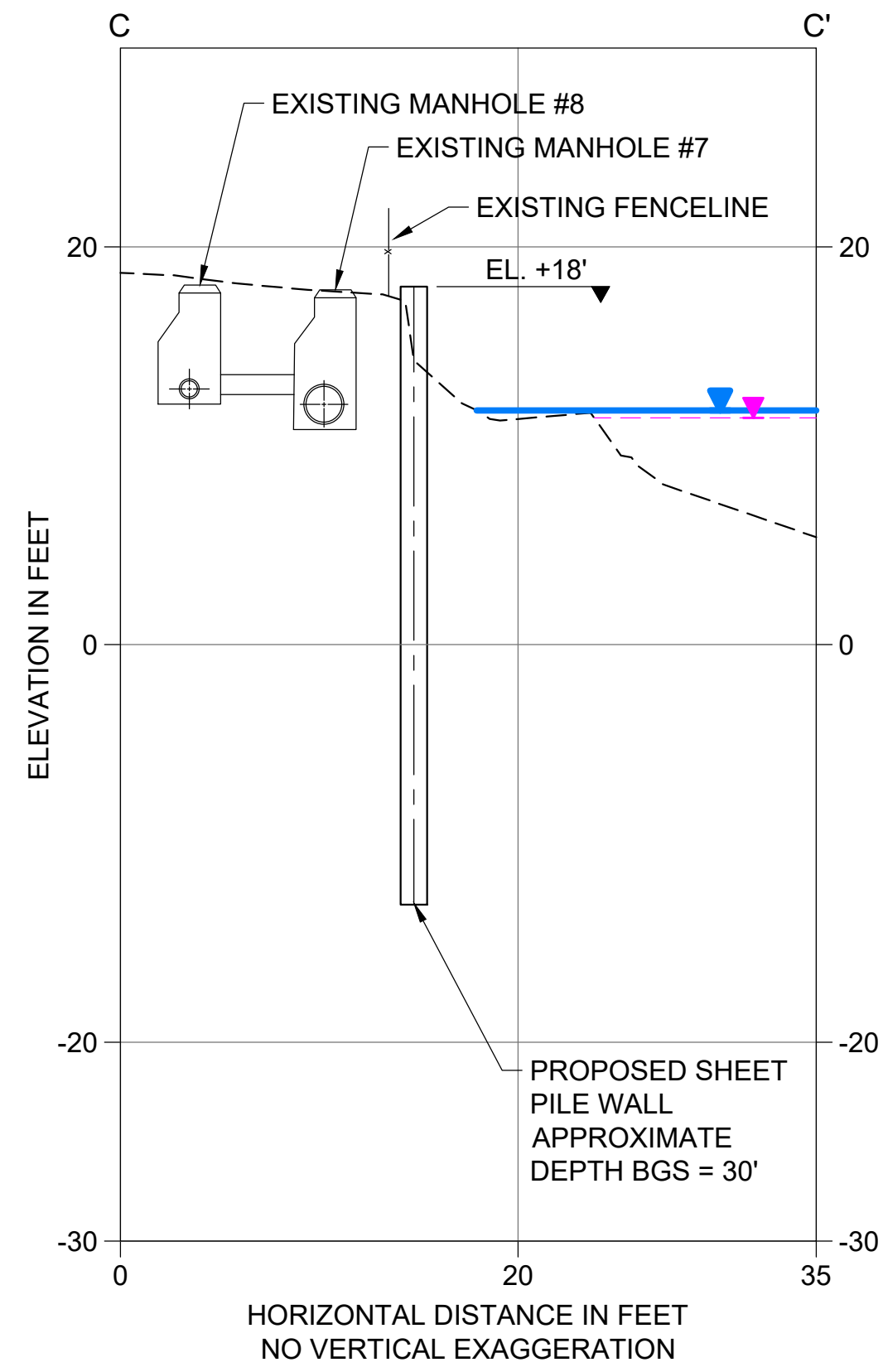
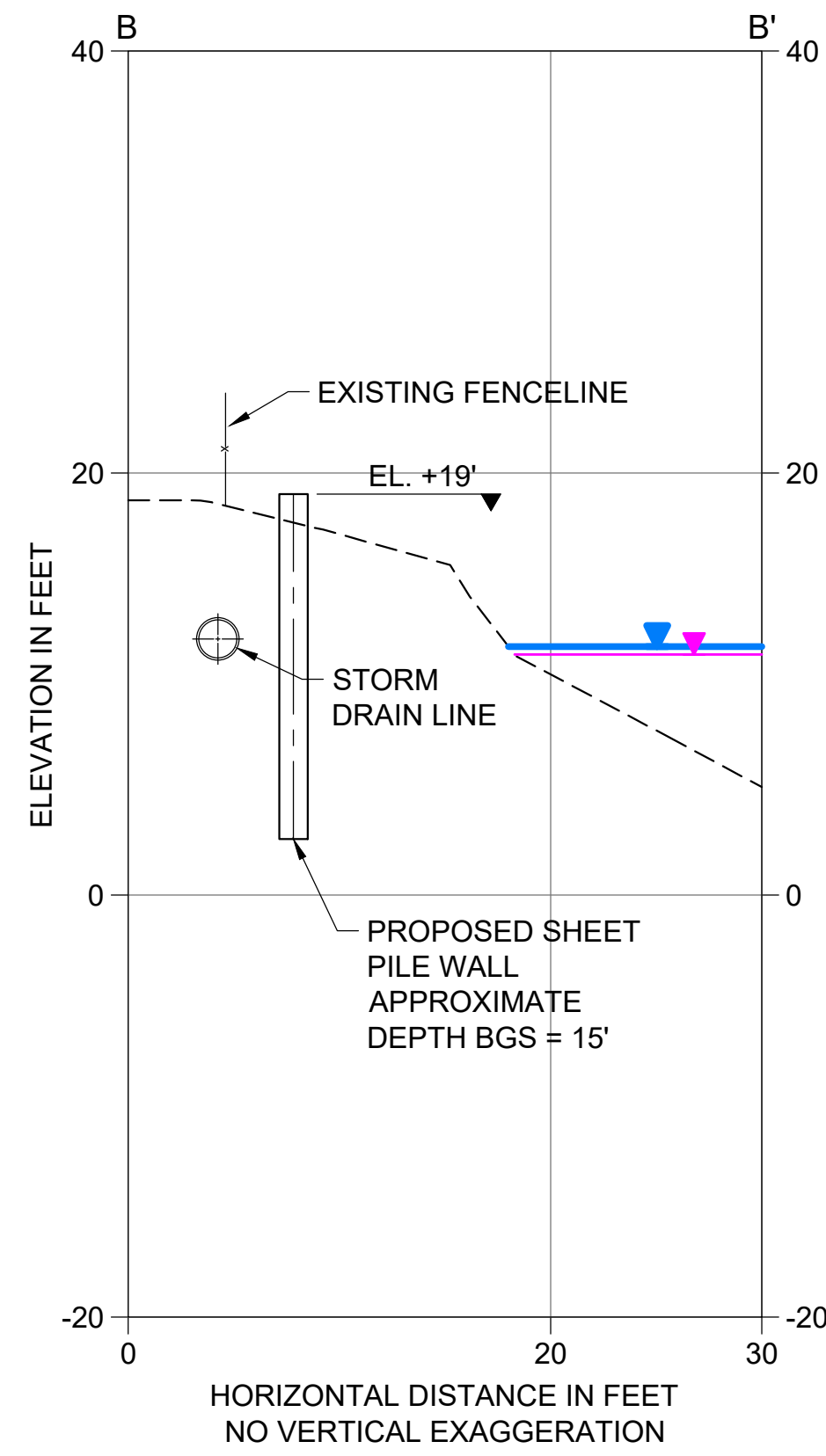
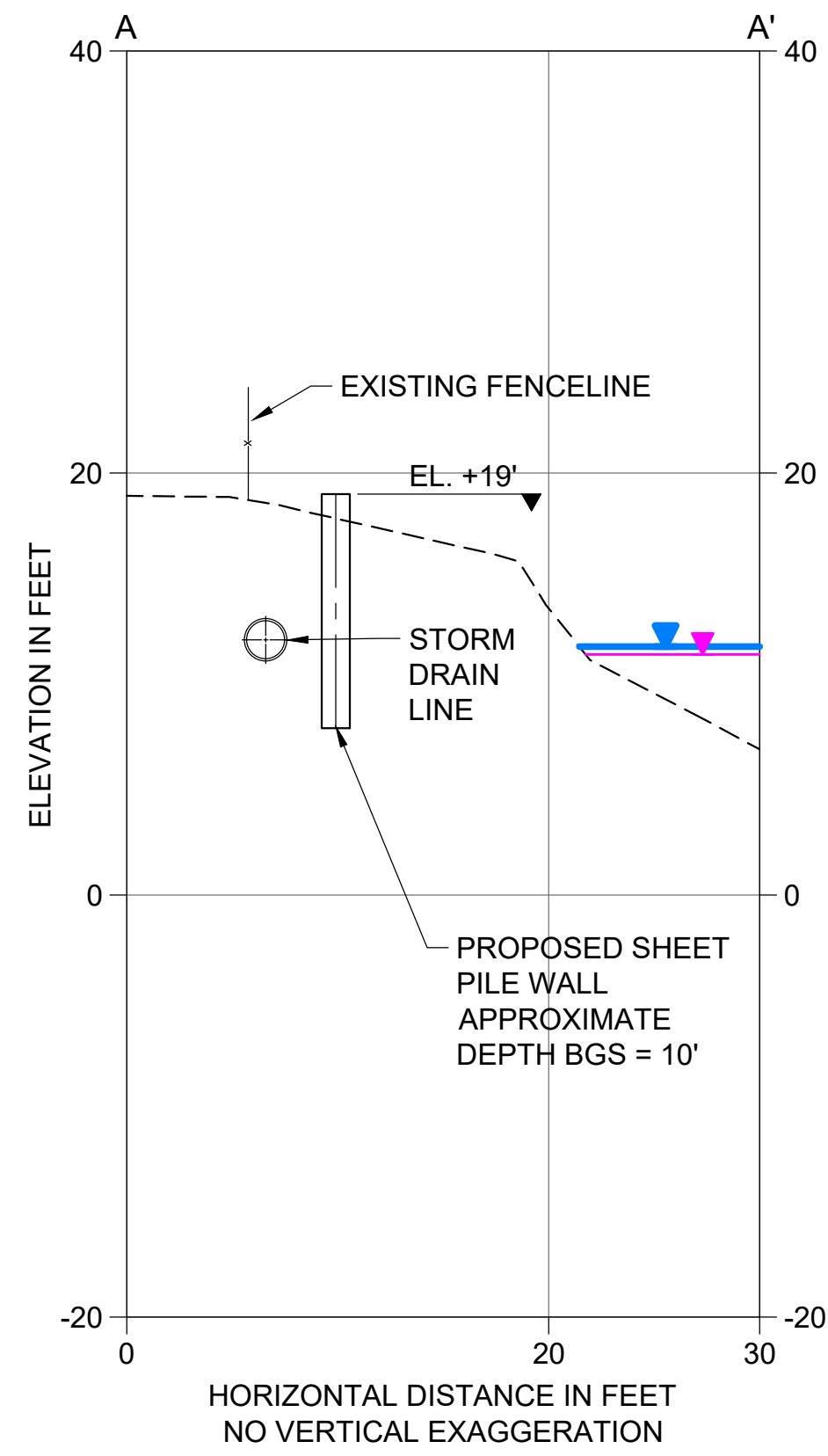
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LEGEND:

- EXISTING GROUND SURFACE
- ▲ ORDINARY HIGH WATER (OHW, SEE NOTE 1)
- MEAN HIGHER-HIGH WATER (MHHW), +11.78'
- MEAN LOW WATER (MLW), +2.84

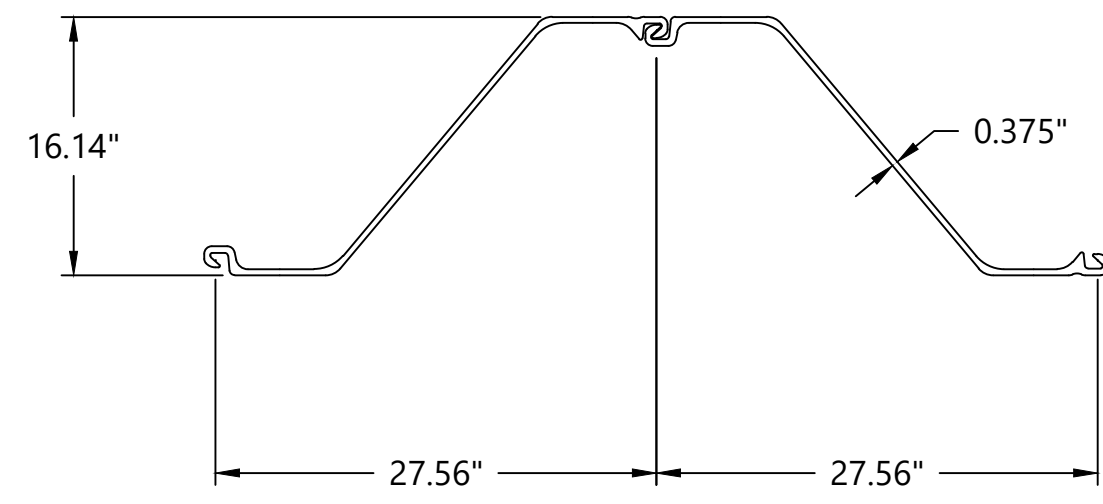


SOURCE: SURVEY BY SITTS & HILL, DATED JUNE 2020.
 VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW)

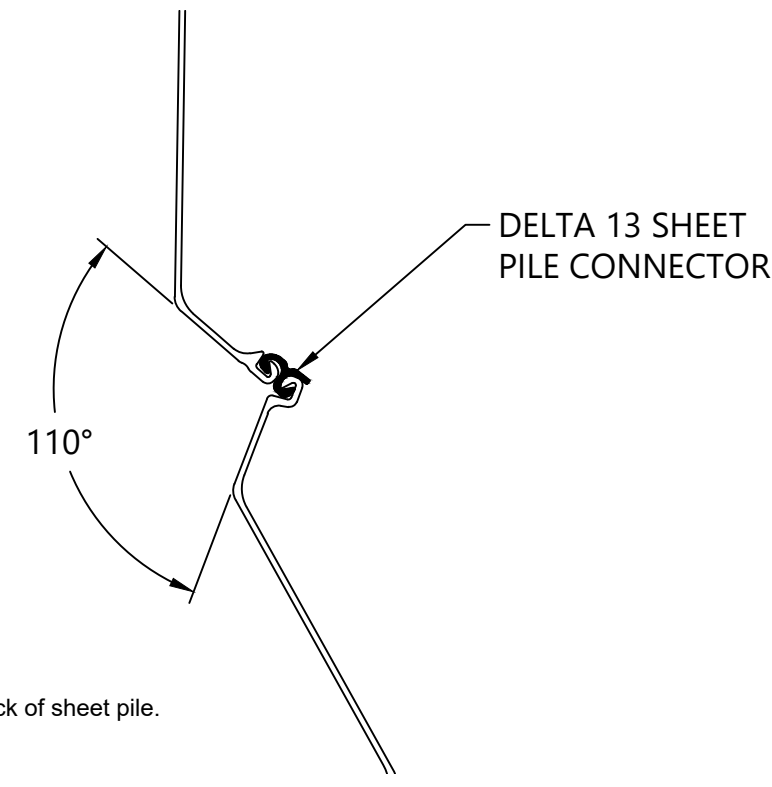
NOTES:

1. LOCATION OF OHW MARK SHOWN IN SECTION E-E' WAS APPROXIMATED BASED ON OBSERVATIONS ALONG ADJACENT NON-ERODED SHORELINE AREAS.
2. BGS: BELOW GROUND SURFACE

 Port of Tacoma <small>P.O. BOX 1837 TACOMA, WA 98402</small>		 ANCHOR QEA <small>1119 Pacific Avenue - Suite 1600 Tacoma, WA 98402</small>	 PRELIMINARY	CHECKED BY: _____ DATE: _____ PROJECT ENGR. DATE: _____ DIRECTOR: _____ DATE: _____ PRINTED BY: jigsby Feb 26, 2021 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
6662 C4.0 SH 5 OF 7		PARCEL 86 SHORELINE REPAIR PROJECT PIERCE COUNTY, WASHINGTON SHEET PILE WALL SECTIONS SHEET SUBTITLE		
CONT./CONS: 071513 M. ID: 101493.01 PHASE:		TOWNSHIP: _____ SECTION: _____ DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933 PARCEL: _____ DRAWING SCALE: AS NOTED		
MARK: _____ REVISION: _____ BY: _____ DATE: _____ APPR: _____		APPROVED: _____		

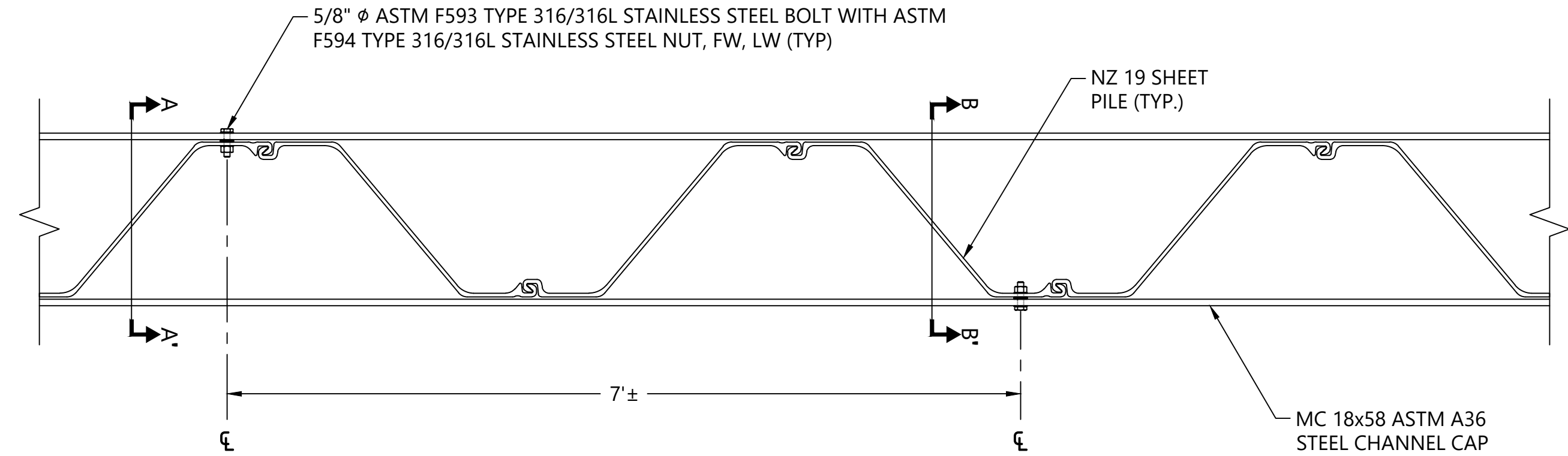


1 NZ 19 SHEET PILE
SCALE: 1" = 1'

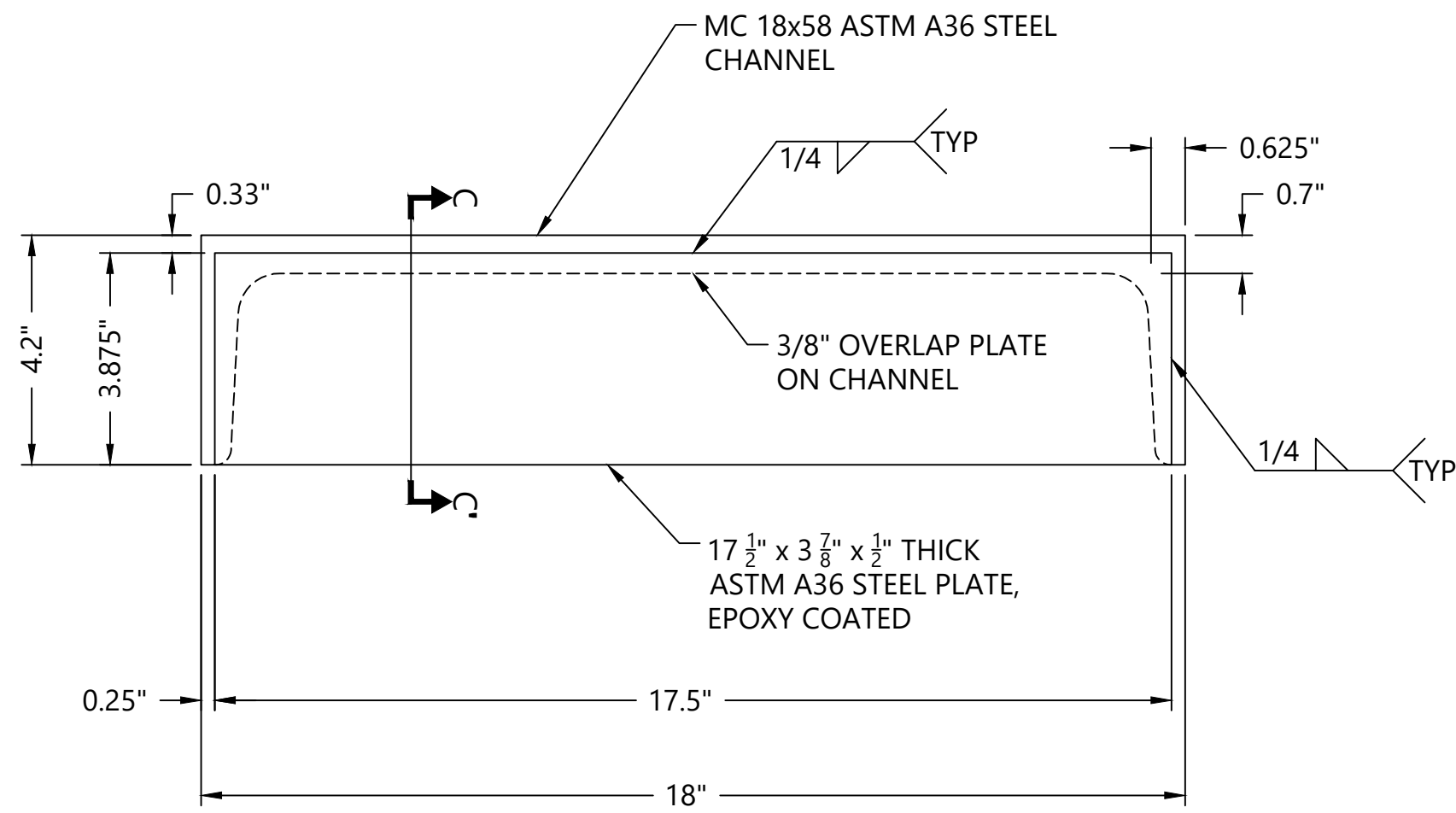


2 DELTA 13 SHEET PILE CONNECTOR
SCALE: 1" = 1'

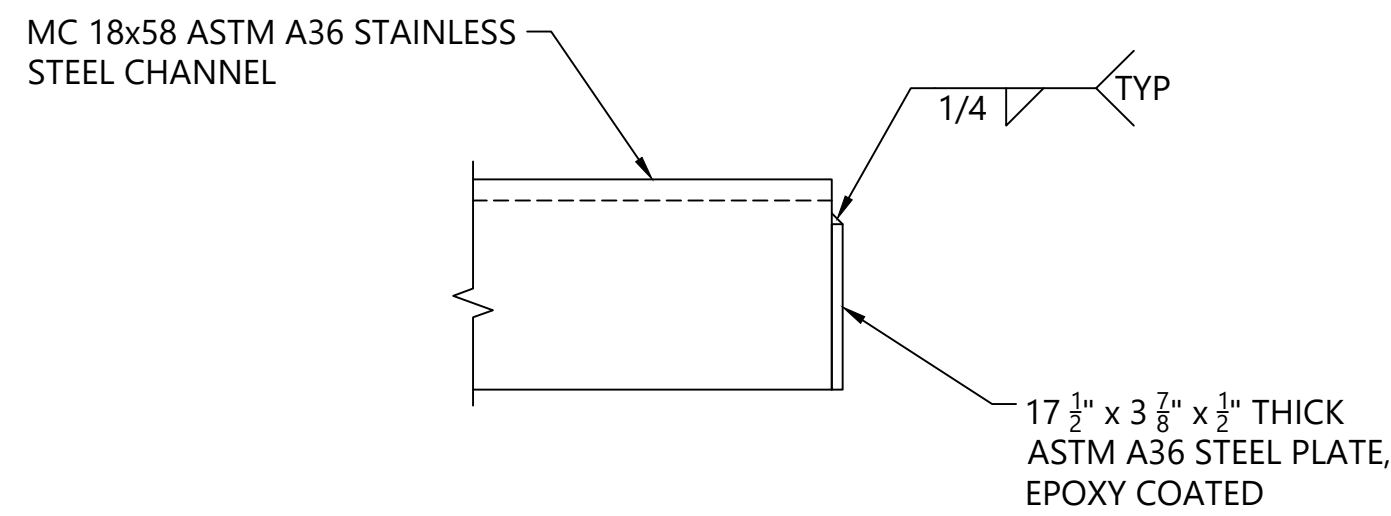
ATTACHMENT PROCEDURE
1. Thread connector into interlock of sheet pile.
2. Tack weld connector to pile.



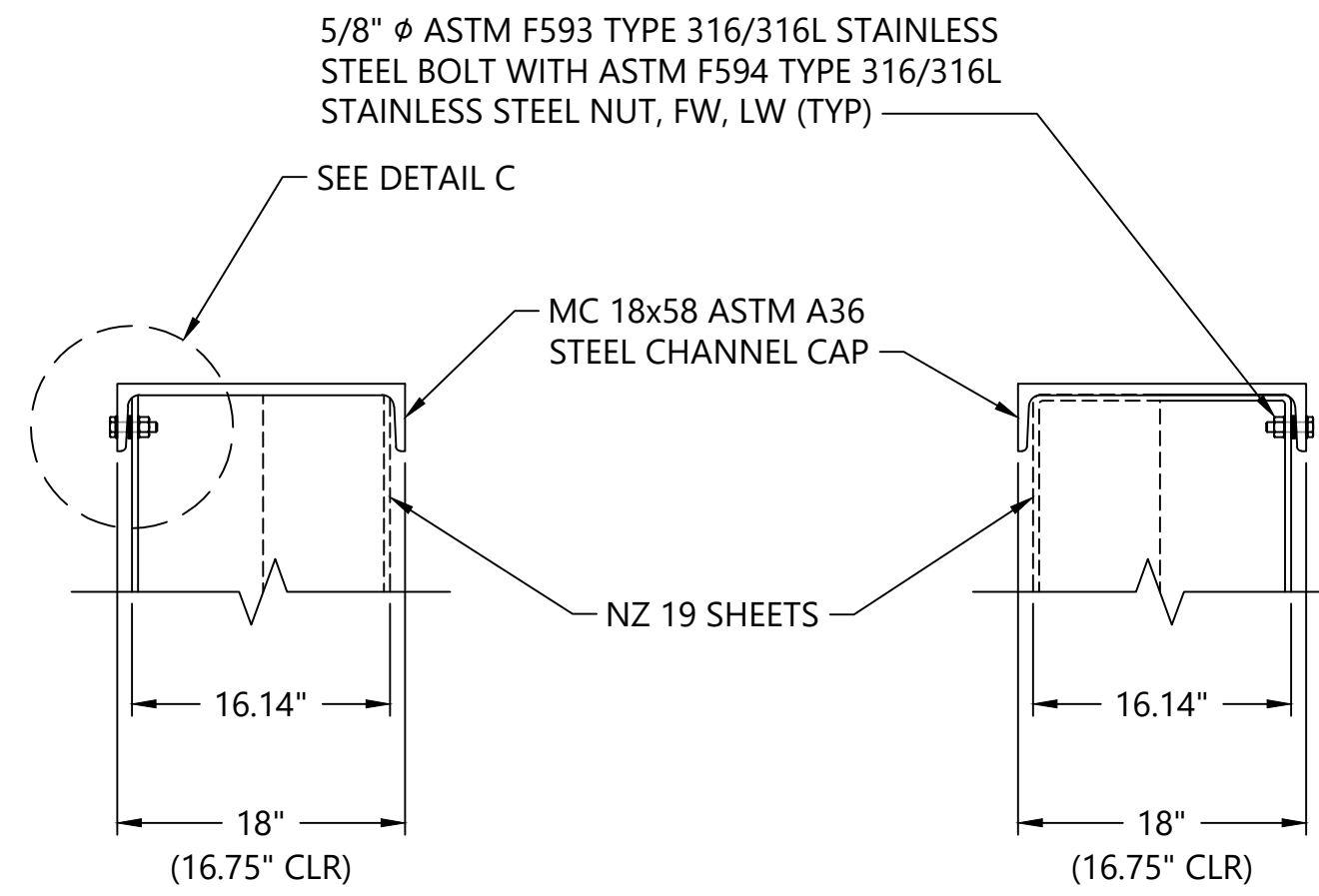
PLAN
SCALE: 1" = 1'



END CAP ELEVATION
SCALE: 1" = 0.25'

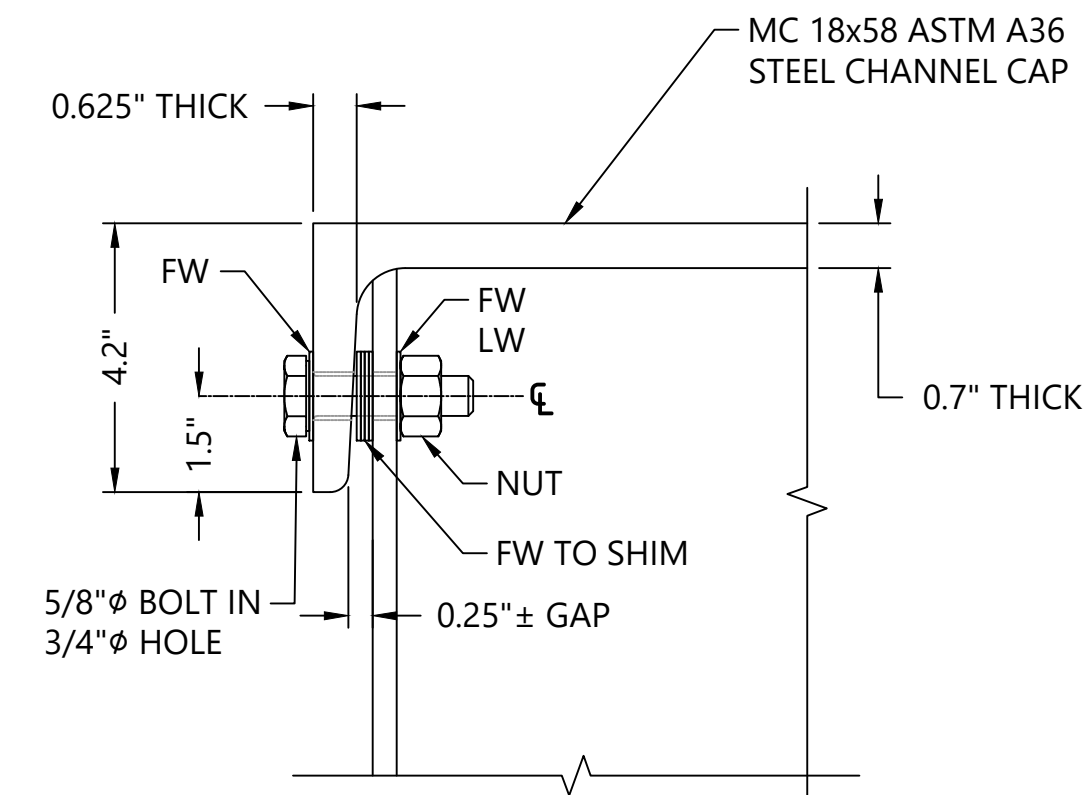


SECTION C-C'
SCALE: 1" = 0.25'



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

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



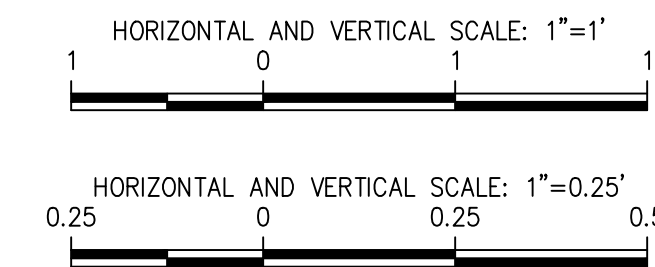
DETAIL C
SCALE: 1" = 0.25'

NOTES:

- EPOXY COAT CARBON STEEL SHEETS, CHANNEL, CAPS, AND OTHER SHAPES WITH ZINC-RICH PRIMER AND TWO TOP COATS IN ACCORDANCE WITH THE SPECIFICATIONS. STAINLESS STEEL SHALL NOT BE COATED.
- DRILL HOLES FOR BOLTS PRIOR TO COATING.
- PROVIDE 3" HOLD BACK OF EPOXY COATING AT WELD TOES ON STEEL SHAPES TO BE WELDED.

3 WALL CONSTRUCTION
SCALE: 1" = 1'

4 CHANNEL END CAPS
SCALE: 1" = 0.25'



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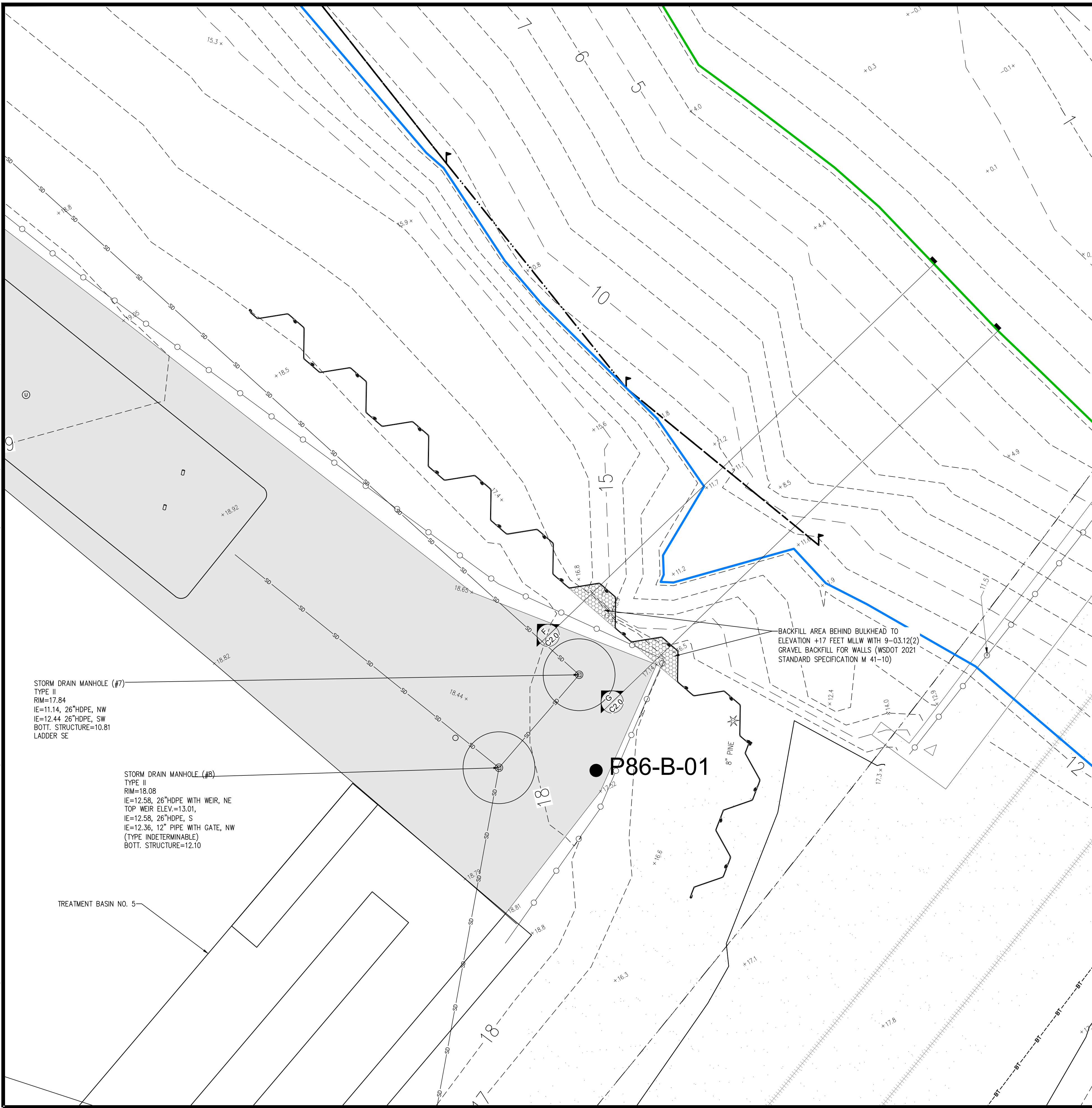


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APPROVED:	
PARCEL 86 SHORELINE REPAIR PROJECT	50% DESIGN
DETAILS	DETAILS
SHEET SUBTITLE	SHEET SUBTITLE
RANGE:	RANGE:
SECTION:	SECTION:
TOWNSHIP:	TOWNSHIP:
DATE-HRZ: WA83-SF	DATE-HRZ: WA83-SF
PARCEL:	PARCEL:
VERT: MLLW 19.39 @ Tide 22 1933	VERT: MLLW 19.39 @ Tide 22 1933
DRAWING SCALE: AS NOTED	DRAWING SCALE: AS NOTED

6662	C5.0
SH 6	OF 7
CONT/CONS: 071513	SECTION: 071513
M. ID: 101493.01	DATE: 02/26/2021
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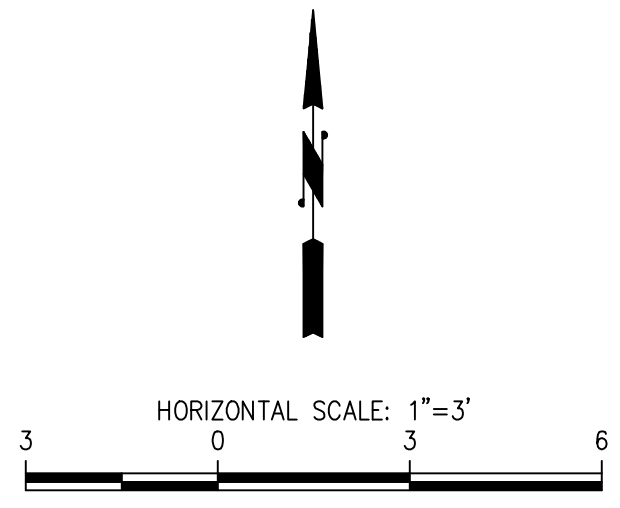


STORM DRAIN MANHOLE (#7)
TYPE II
RIM=17.84
IE=11.14, 26" HDPE, NW
IE=12.44 26" HDPE, SW
BOTT. STRUCTURE=10.81
LADDER SE

STORM DRAIN MANHOLE (#8)
TYPE II
RIM=18.08
IE=12.58, 26" HDPE WITH WEIR, NE
TOP WEIR ELEV=13.01,
IE=12.58, 26" HDPE, S
IE=12.36, 12" PIPE WITH GATE, NW
(TYPE INDETERMINABLE)
BOTT. STRUCTURE=12.10

BACKFILL AREA BEHIND BULKHEAD TO
ELEVATION +17 FEET MLLW WITH 9'-03.12(2)
GRAVEL BACKFILL FOR WALLS (WSDOT 2021
STANDARD SPECIFICATION M 41-10)

● P86-B-01



- SURVEY LEGEND**
- ⊙ FOUND MONUMENT AS NOTED
 - ⊗ SURVEY CONTROL POINT
 - ⊕ STORM DRAIN MANHOLE
 - UTILITY CLEAN OUT
 - ⊕ UTILITY MANHOLE
 - ⊙ MONITORING WELL
 - ⊗ CONIFER TREE
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 - PVC VENT
 - ⊕ ORDINARY HIGH WATER MARK
 - BOUNDARY LINE
 - SD — STORM DRAIN LINE
 - — — ORDINARY HIGH WATER LINE (OHW)
 - — — WATER LINE
 - BT — BT — TELECOM LINE
 - — — RIGHT OF WAY
 - 5' — EXISTING CONTOURS (1 & 5' INTERVALS)
 - ▒ ASPHALT SURFACE
 - ▒ CONCRETE SURFACE
 - ▒ GRAVEL SURFACE
- GENERAL LEGEND**
- P86-B-01 EXISTING GEOTECHNICAL BORING LOCATION
 - ▭ 0321364024 PARCEL BOUNDARY AND IDENTIFICATION
 - — — PARCEL 86 PROPERTY BOUNDARY
 - — — MEAN HIGHER-HIGH WATER LINE (MHHW), +11.78'
 - — — MEAN LOW WATER LINE (MLW) +2.84'
 - — — 50-FOOT FISH AND WILDLIFE HABITAT CONSERVATION AREAS (FWHCA) MARINE BUFFER

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

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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

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 - THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE WITH THE FINAL RESULTS MEETING OR EXCEEDING THE CURRENT TRAVERSE STANDARDS CONTAINED IN W.A.C. 332-130-090. ALL MEASUREMENTS WERE MADE WITH A TOPCON QS ROBOTIC TOTAL STATION IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
 - IN ACCORDANCE WITH THE REVISED CODE OF WASHINGTON (R.C.W.) 58.09 AND THE WASHINGTON ADMINISTRATIVE CODE (W.A.C.) 332-130, THIS SURVEY MAY DEPICT OCCUPATIONAL INDICATORS THAT DIFFER FROM THE DEEDED LOT LINES. THESE INDICATORS, IF AT ALL PRESENT, MAY REPRESENT A POTENTIAL FOR CLAIMS OF UNWRITTEN TITLE. THIS SURVEY DOES NOT PURPORT TO RESOLVE SUCH ITEMS.
 - THE FIELD WORK SHOWN HEREON WERE PERFORMED IN JUNE, 2020 UNDER SITTS & HILL PROJECT NUMBER 18890.
 - 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.
 - THIS SURVEY COMPLIES WITH W.A.C. 332-130-145. THE CONTOURS DEPICTED HEREON ARE BASED ON DATA FROM DIRECT FIELD MEASUREMENTS. SPOT ELEVATIONS ARE BASED ON DIRECT FIELD MEASUREMENTS AND ARE DEPICTED FOR REFERENCE. THE PURPOSE OF THIS TOPOGRAPHIC MAP IS TO SERVE AS A BASE MAP FOR CONTEMPLATED SITE IMPROVEMENTS AND DESIGN.
 - ORDINARY HIGH WATER POSITIONS FLAGGED BY CLIENT-PROVIDED WETLAND BIOLOGIST, AND FIELD LOCATED DURING THE SITE MAPPING.

 1119 Pacific Avenue - Suite 1600 Tacoma, WA 98402 P.O. BOX 1837 TACOMA, WA 98401 PRC: 253-572-0927		BY: _____ DATE: _____
 ANCHOR QEA 1119 Pacific Avenue - Suite 1600 Tacoma, WA 98402 PRC: 253-572-0927		REVISION: _____ MARK: _____
APPROVED: _____	CHECKED BY: _____ DATE: _____	PROJECT ENGR: _____ DATE: _____ PRINTED BY: jigsby Feb 26, 2021 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
PARCEL 86 SHORELINE REPAIR PROJECT PIERCE COUNTY, WASHINGTON GRADING AND RESTORATION SHEET SUBTITLE		
6662 C6.0 SH 7 OF 7	TOWNSHIP: _____ RANGE: MLLW 19.39 @ Tide 22 1933 DAT-HRZ: WA83-SF VERT: _____ DRAWING SCALE: AS NOTED PARCEL: _____	CONT/CONS: 071513 M. ID: 101493.01 PHASE: _____

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