

PORT OF TACOMA

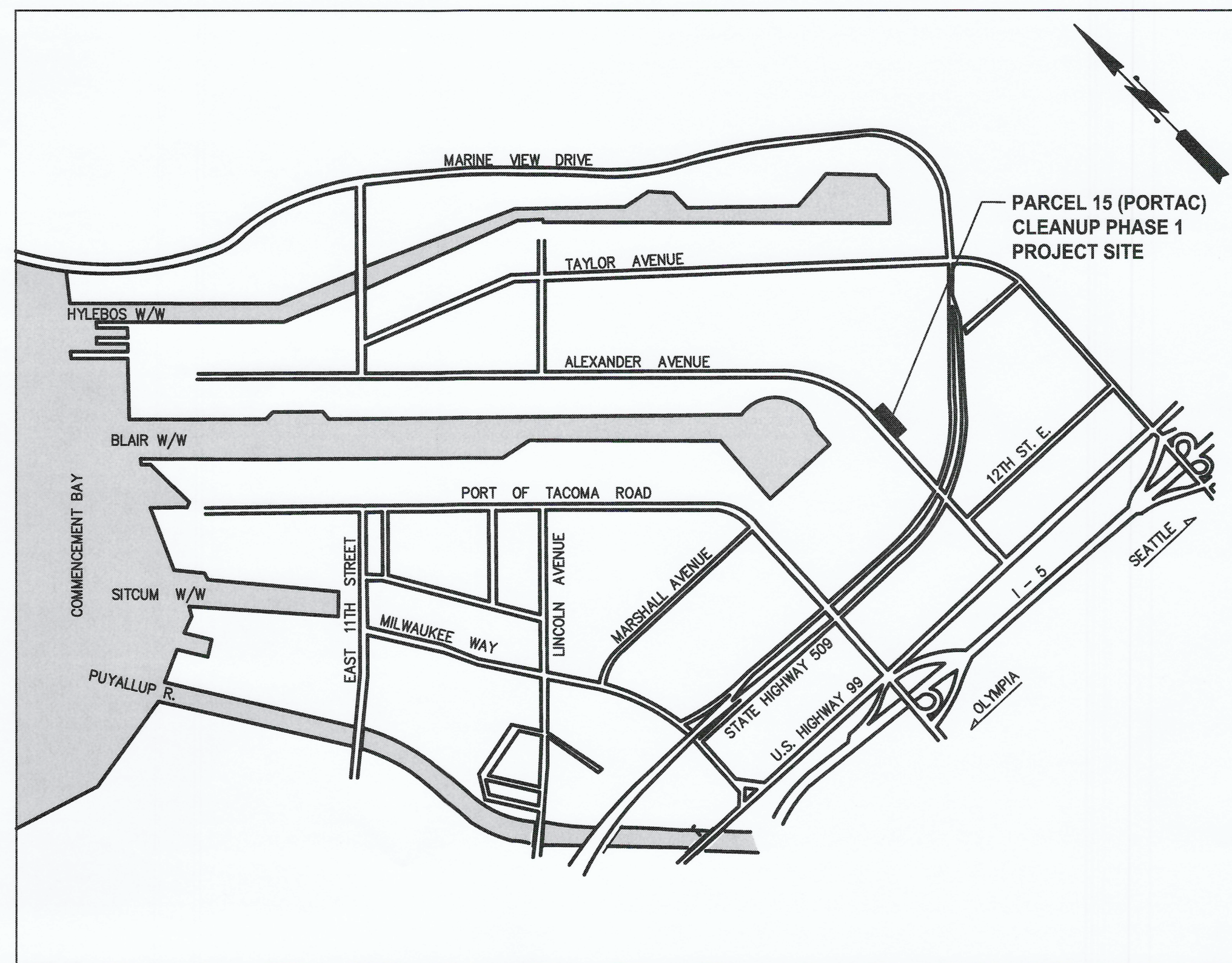
PARCEL 15 (PORTAC) CLEANUP PHASE 1

PROJECT NO. 101531.01


CONTRACT NO. 071579

PORT COMMISSIONERS:
 RICHARD P. MARZANO
 DON MEYER
 JOHN McCARTHY
 KRISTIN ANG
 DEANNA KELLER

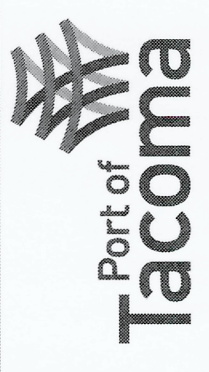
PORT STAFF:
 ERIC JOHNSON
 Port of Tacoma Executive Director
 THAIS HOWARD, PE
 Director of Engineering
 NORMAN GILBERT, PE
 Project Manager



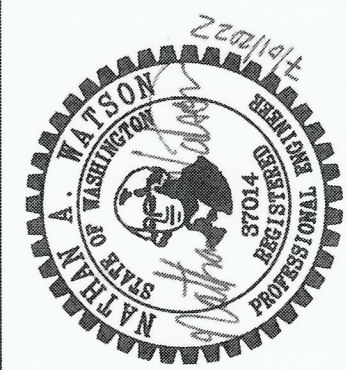
SHEET INDEX	
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3	D1.0 TESC, DEMOLITION, AND BYPASS PLAN
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16	C3.3 STORM DRAINAGE DETAILS



2407 North 31st Street, Suite 100
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Port of Tacoma
P.O. Box 9877 Tacoma, WA 98407



APPROVED: *[Signature]*
 DIRECTOR ENG. DATE: 07/01/22
 PRINTED BY: mdillard Jul 05, 2022
 PORT ADDRESS: SITCUM WAY
 TACOMA, WA 98421

6672
G1.0
1 OF 13

PORT OF TACOMA
PARCEL 15 (PORTAC) CLEANUP PHASE 1
COVER SHEET

CMB 07/01/22
CHECKED BY: [Blank] DATE: 07/01/22
PROJ. ENGR: [Blank] DATE: 07/01/22

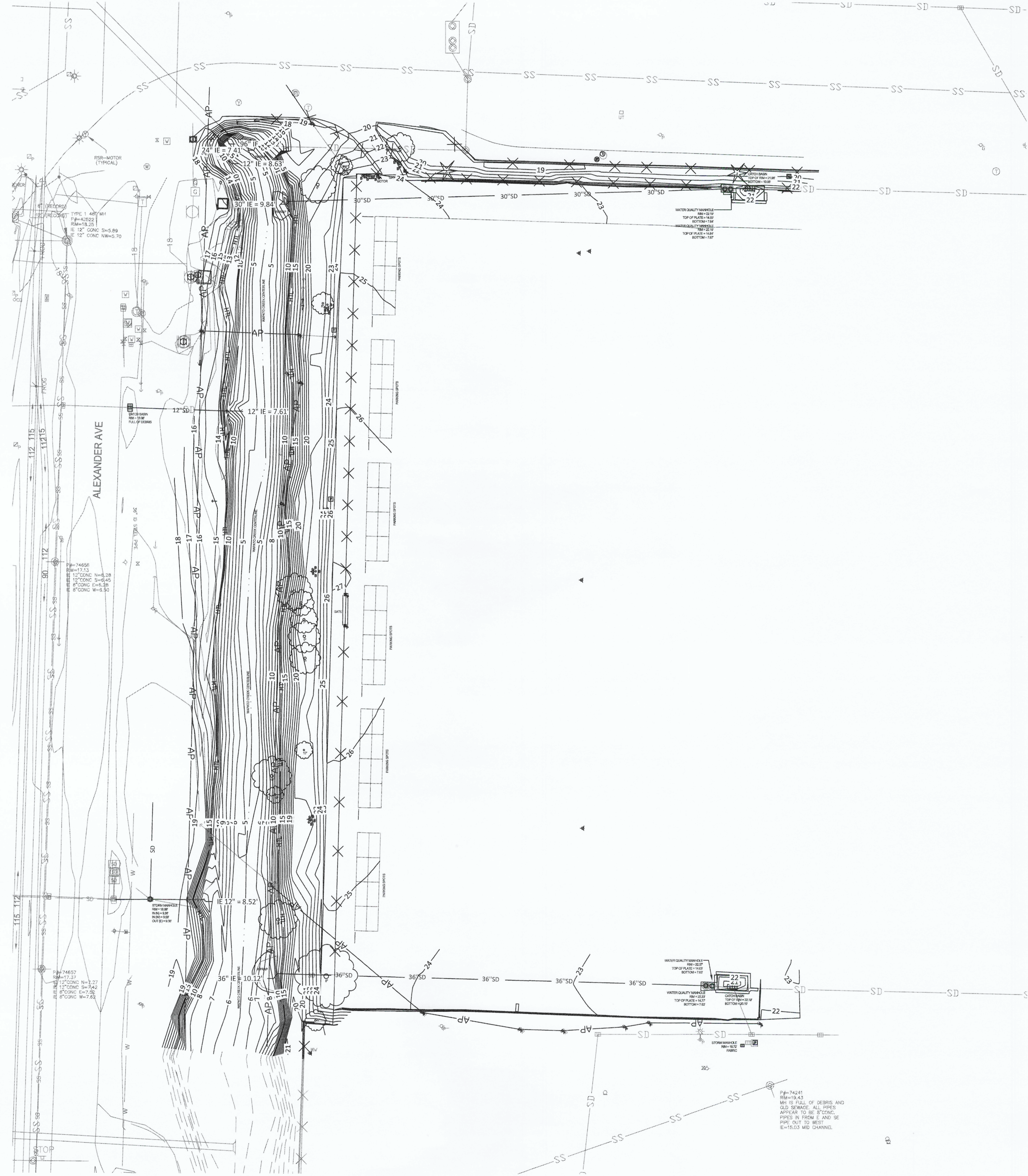
CONT/CONS: 071579
M. ID: 101531.01
PHASE: BID

TOWNSHIP: 20N
RANGE: 03E
SECTION: 01SE
DATE-HRZ: WA-83 SF
PARCEL: 5000350150

SECTION: 01SE
@ TIDE 22 1933
DRAWING SCALE: AS SHOWN

PORT OF TACOMA FILE: N:\2021\Portac\Part 3 - KPFF Design\3.13 Drawings\G1.0 COVER SHEET

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NOTES:

- 1.) VERTICAL DATUM: PORT OF TACOMA
BENCHMARK: BRASS DISK ON THE NORTH SIDE OF THE 11TH STREET BRIDGE EAST OF THE INTERSECTION WITH MILWAUKEE WAY.
BENCHMARK NO. 846 ELEVATION = 15.00'
- 2.) BASIS OF BEARINGS FOR THIS SURVEY IS THE WASHINGTON STATE COORDINATE SYSTEM, SOUTH ZONE (4602) BASED ON THE PORT OF TACOMA SITTS & HILL ENGINEERS, INC. MONUMENT NETWORK MAP.
- 3.) UTILITY LOCATIONS SHOWN ARE PER FIELD LOCATED UTILITY PAINT MARKS & REFERENCE MAPS MADE AVAILABLE BY THE VARIOUS UTILITY PROVIDERS. UNLESS INDICATED, DEPTHS OF UTILITY LINES ARE NOT AVAILABLE. UTILITY LOCATES ON ALL PUBLIC AND PRIVATE UTILITIES ARE REQUIRED AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- 4.) THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY.
- 5.) FIELDWORK WAS COMPLETED ON SEPTEMBER 02, 2021.

LEGEND:

- CURB LINE
- EDGE OF ASPHALT
- ELECTRICAL LINE
- STORM LINE
- CYCLONE FENCE LINE
- OVERHEAD UTILITY LINES
- DITCH CENTERLINE
- BOLLARD
- ELECTRICAL MANHOLE
- ELECTRICAL METER
- ELECTRICAL RISER
- ELECTRICAL CABINET
- ELECTRICAL VAULT
- GUY ANCHOR
- POWER POLE/OVERHEAD LIGHT
- POWER POLE W/DROP
- POWER POLE
- GAS MARKER POST
- GAS VAULT
- GAS VALVE
- STORM MANHOLE WITH STRUCTURE
- CATCH BASIN/AREA DRAIN
- STORM CLEAN OUT
- TELECOMMUNICATIONS MANHOLE
- TELECOMMUNICATIONS VAULT
- FIRE HYDRANT
- KEYPAD
- UNKNOWN UTILITY VAULT
- DECIDUOUS TREE
- PERIMETER REPRESENTS DRIPLINE
- CONIFEROUS TREE
- PERIMETER REPRESENTS DRIPLINE

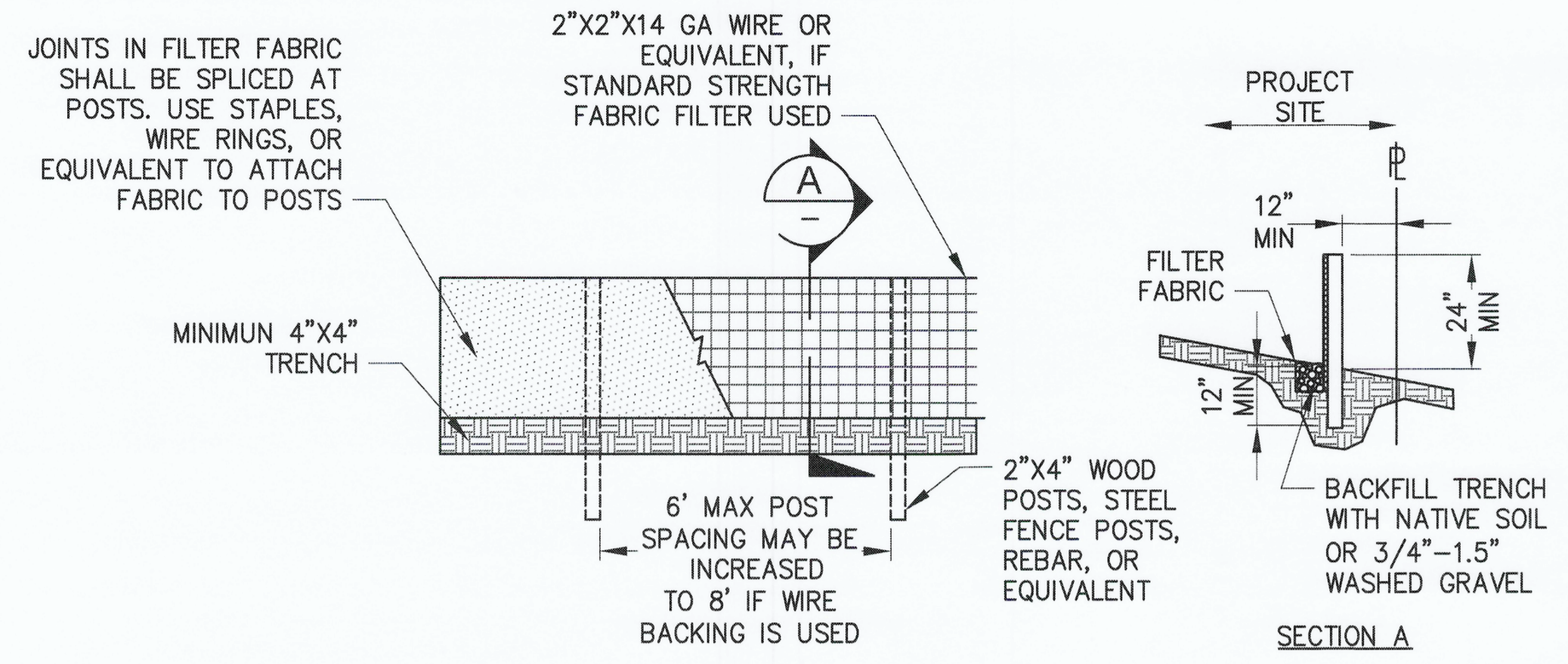
JOB NO. 10092100086



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<p>6672 V1.0 2 OF 13</p>	<p>PORT OF TACOMA PARCEL 15 (PORTAC) CLEANUP PHASE 1 SURVEY PLAN</p>		<p>APPROVED: <i>Alan Howard</i> 7/16/22</p>	<p>CMB 07/01/22 CHECKED BY DATE</p>
	<p>CONT./CONS: 071579</p>	<p>TOWNSHIP: 20N</p>	<p>RANGE: 03E</p>	<p>SECTION: 01SE</p>
<p>M. ID: 101531.01</p>	<p>DAT-HRZ: WA-83 SF</p>	<p>VERT: 19.18' @ TIDE 22 19.33</p>	<p>PRINTED BY: mdillard Jul 05, 2022</p>	<p>PROJ. ENGR DATE</p>
<p>PHASE: BID</p>	<p>PARCEL: 5000350150</p>	<p>DRAWING SCALE: AS SHOWN</p>	<p>PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98421</p>	<p>MARK: REVISION:</p>
			<p>BY: _____</p>	<p>DATE: _____</p>

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A **SILT FENCE DETAIL**
SCALE: NTS

NOTES:

1. RELOCATE SILT FENCE OR INSTALL NEW SILT FENCE AS SITE CONDITIONS CHANGE.
2. REPAIR ANY DAMAGE IMMEDIATELY.
3. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, INTERCEPT AND CONVEY THEM TO A SEDIMENT POND.
4. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING, ACTING AS A BARRIER TO FLOW, AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
5. REMOVE SEDIMENT DEPOSITS WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-THIRD THE HEIGHT OF THE SILT FENCE, OR INSTALL A SECOND SILT FENCE.
6. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, REPLACE IT.

6672
D1.1
4 OF 13
CONT/CONS: 071579
M. ID: 101531.01
PHASE: BID

PORT OF TACOMA
PARCEL 15 (PORTAC) CLEANUP PHASE 1
DEMOLITION, TESC, AND BYPASS DETAILS
TOWNSHIP: 20N RANGE: 03E SECTION: 01SE
DAT-HRZ: WA-83 SF VERT: 19.18' @ TIDE 22 1933
PARCEL: 5000350150 DRAWING SCALE: AS SHOWN

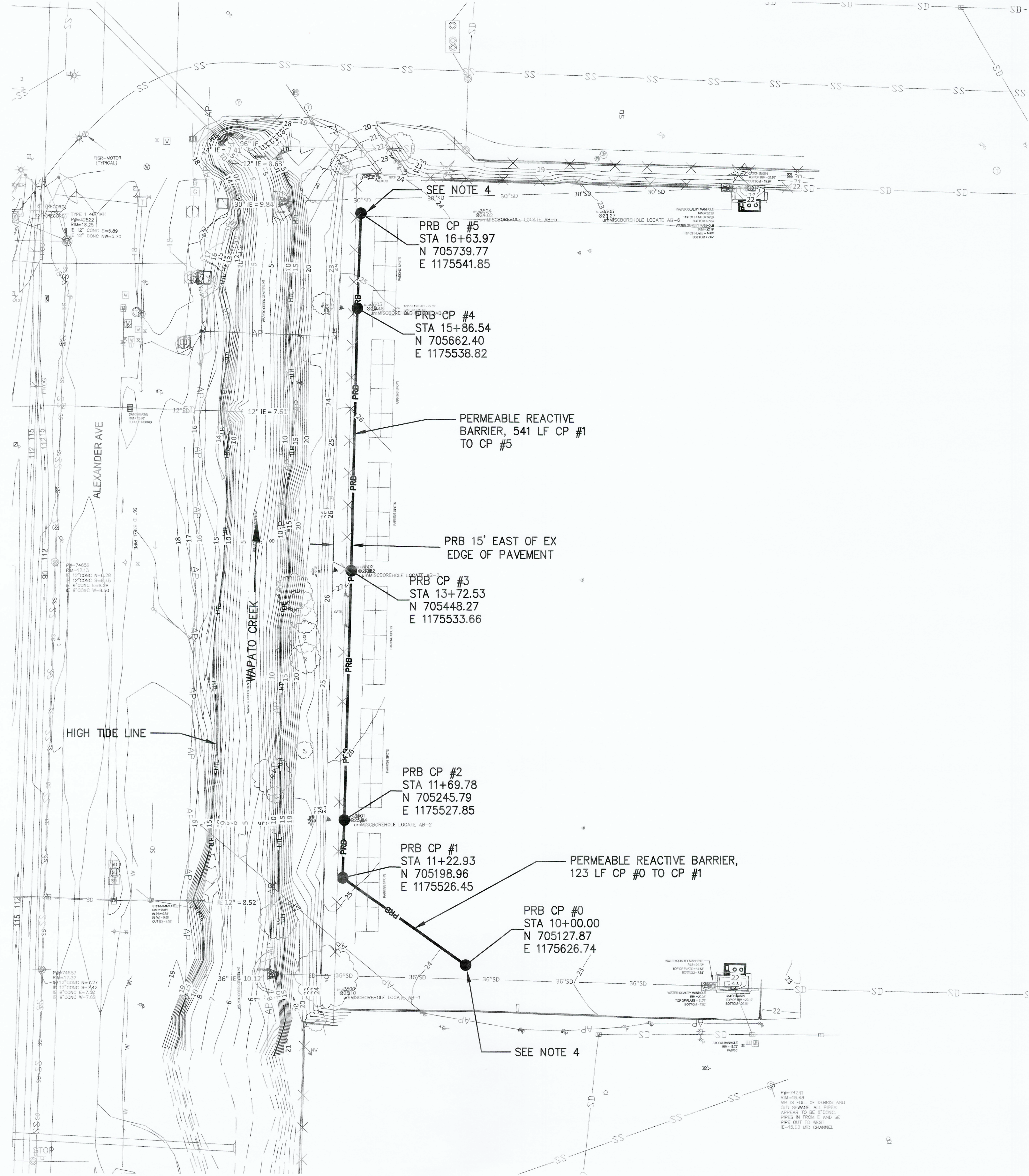
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DIRECTOR BY: mdillard Jul 05, 2022
PRINTED BY: mdillard Jul 05, 2022
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NW 07/01/22



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P.O. BOX 1897 TACOMA, WA 98401 (253)983-8641

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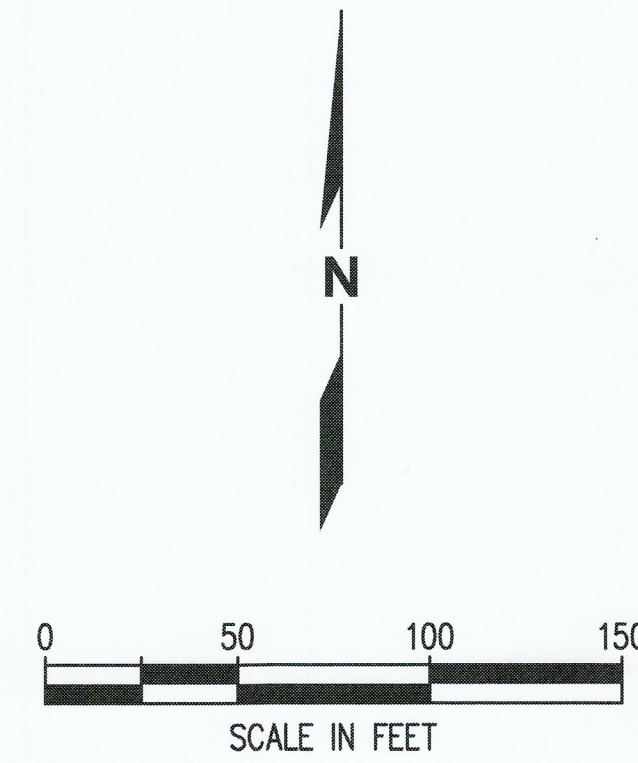


LEGEND

PRB PERMEABLE REACTIVE BARRIER (PRB)

NOTES

1. THE PERMEABLE REACTIVE BARRIER (PRB) ALIGNMENT INTERCEPTS GROUNDWATER DISCHARGE TO WAPATO CREEK.
2. THE FIVE CONTROL POINTS (CP) SHALL BE USED TO LAY OUT AND VERIFY THE PRB ALIGNMENT. THE ENGINEER WILL VERIFY THE PRB ALIGNMENT LAYOUT BEFORE SAWCUTTING ROLLER COMPACTED CONCRETE (RCC).
3. THE LOGS OF SOIL BORINGS INSTALLED AT CP LOCATIONS ARE INCLUDED IN SECTION 00 31 00 SPECIFICATIONS FOR THE CONTRACTOR'S REFERENCE.
4. THE CP #0 AT THE SOUTHERN PRB TERMINUS IS APPROXIMATELY 10 FEET FROM THE OUTER DIAMETER OF THE 30" STORMWATER PIPE. THE CP #5 AT THE NORTHERN PRB TERMINUS IS ALSO APPROXIMATELY 10 FEET FROM THE OUTER DIAMETER OF THE 30" STORMWATER PIPE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF STORMWATER PIPES ADJACENT TO CP #0 AND CP #5 AND MAINTAIN AT LEAST 10' SETBACK FROM THE STORMWATER PIPE.
5. THE CONTRACTOR SHALL PROTECT ALL GROUNDWATER MONITORING WELLS IN VICINITY OF PRB DURING CONSTRUCTION.
6. THE PRB TRENCH SHALL BE CONSTRUCTED USING CONVENTIONAL EXCAVATION AND BIOPOLYMER SLURRY. THE CONTRACTOR SHALL MAINTAIN A STABLE TRENCH IN ACCORDANCE WITH SECTION 31 23 33 SPECIFICATIONS.
7. THE PRB EXCAVATION AND BACKFILL PROFILES ARE SHOWN ON DRAWING SHEETS C1.1-C1.4.



6672
C1.0
5 OF 13

CONT./CONS: 071579
M. ID: 101531.01
PHASE: BID

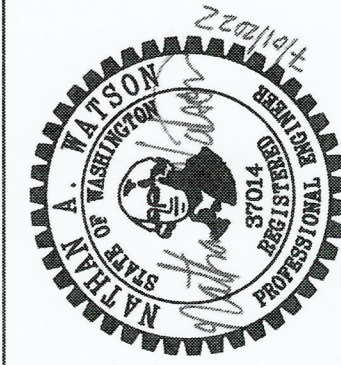
PORT OF TACOMA
PARCEL 15 (PORTAC) CLEANUP PHASE 1
PRB PLAN

TOWNSHIP: 20N RANGE: 03E SECTION: 01SE
DAT-HRZ: WA-83 SF VERT: 19.18' @ TIDE 22 19.33
PARCEL: 5000350150 DRAWING SCALE: AS SHOWN

APPROVED:

[Signature]
DIRECTOR
PRINTED BY: mdillard
PORT ADDRESS: 1 SITCUM WAY
TACOMA, WA 98421

CMB 07/01/22
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NW 07/01/22
PROJ. ENGR DATE



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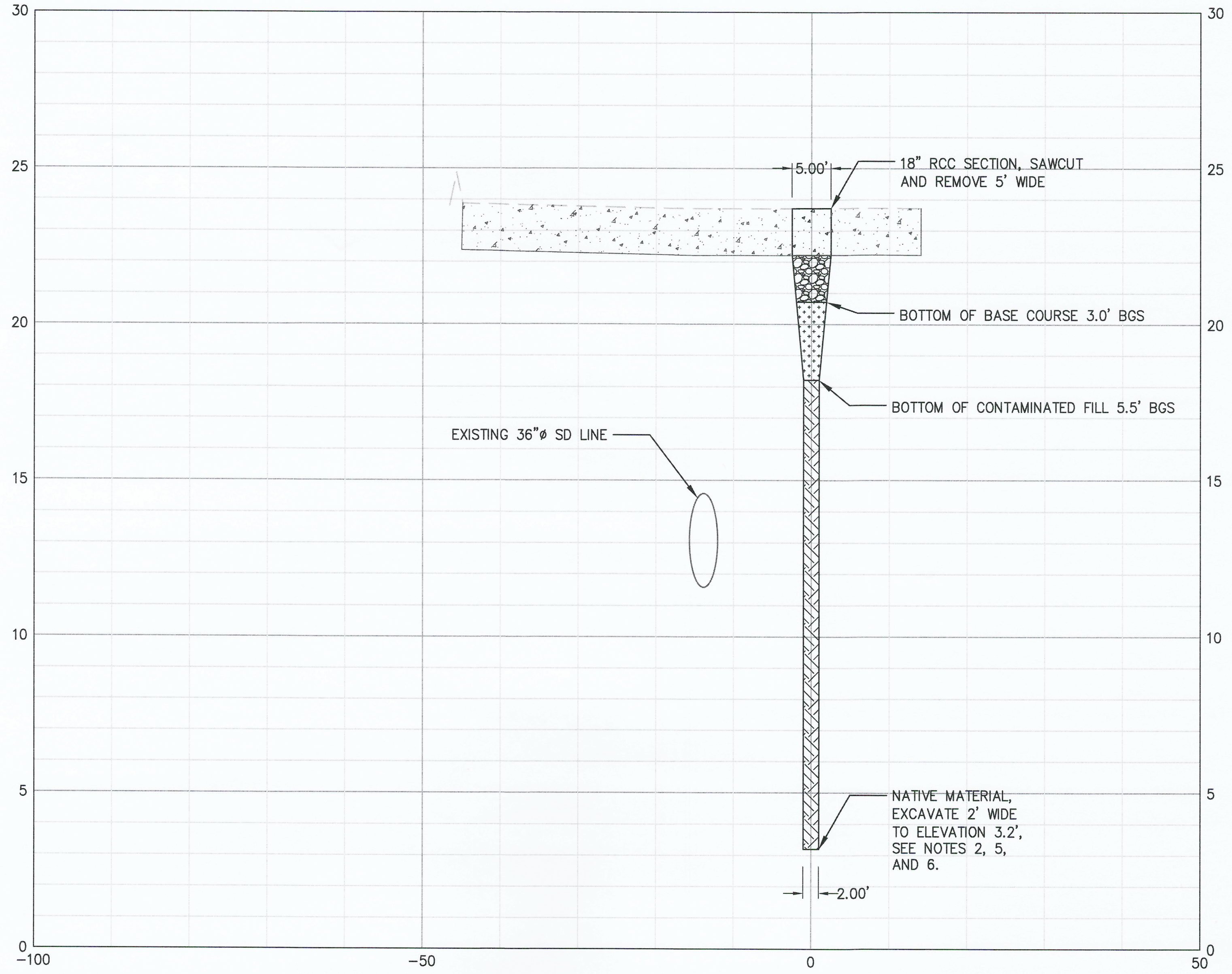
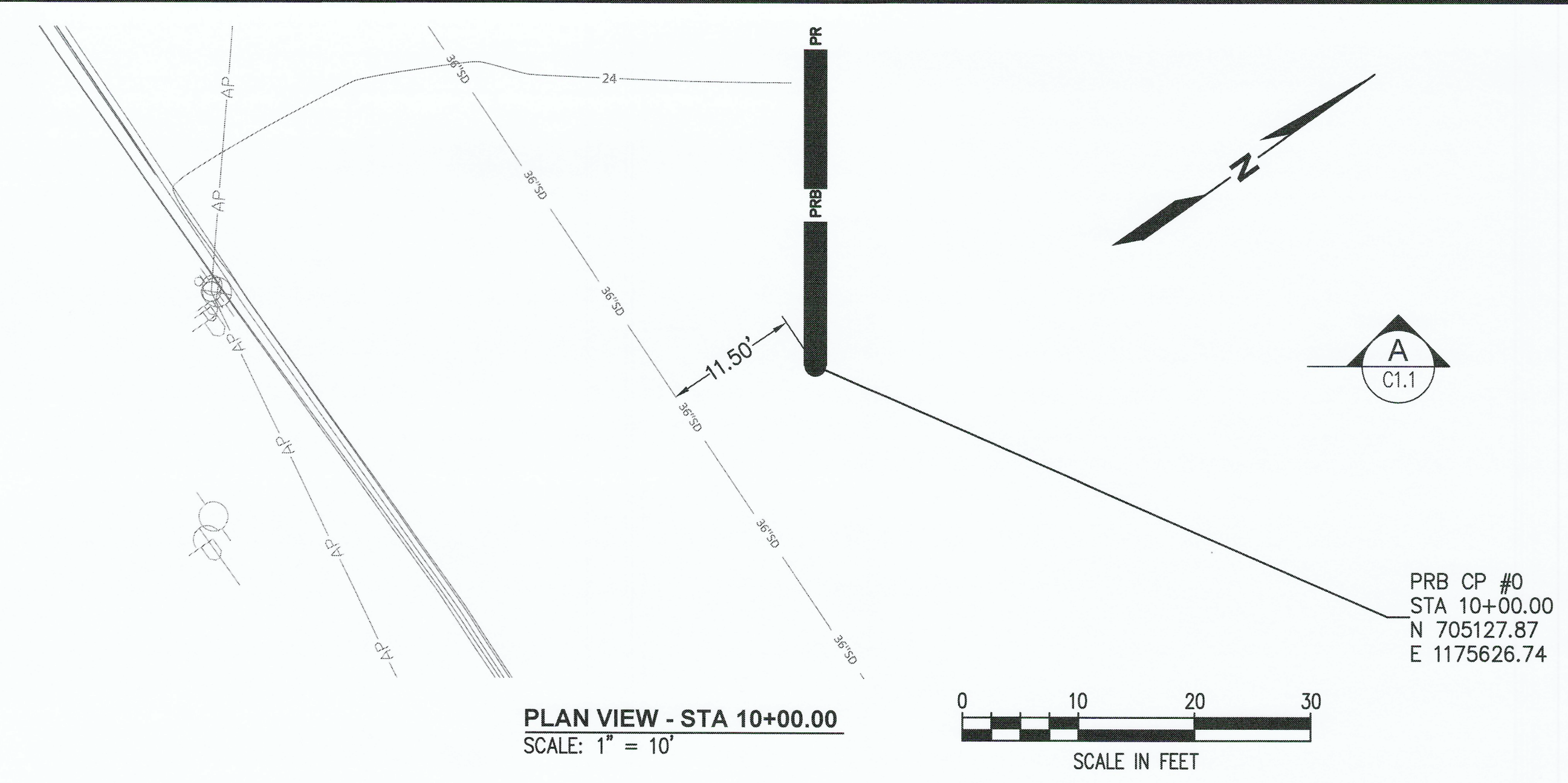
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BINDING EDGE

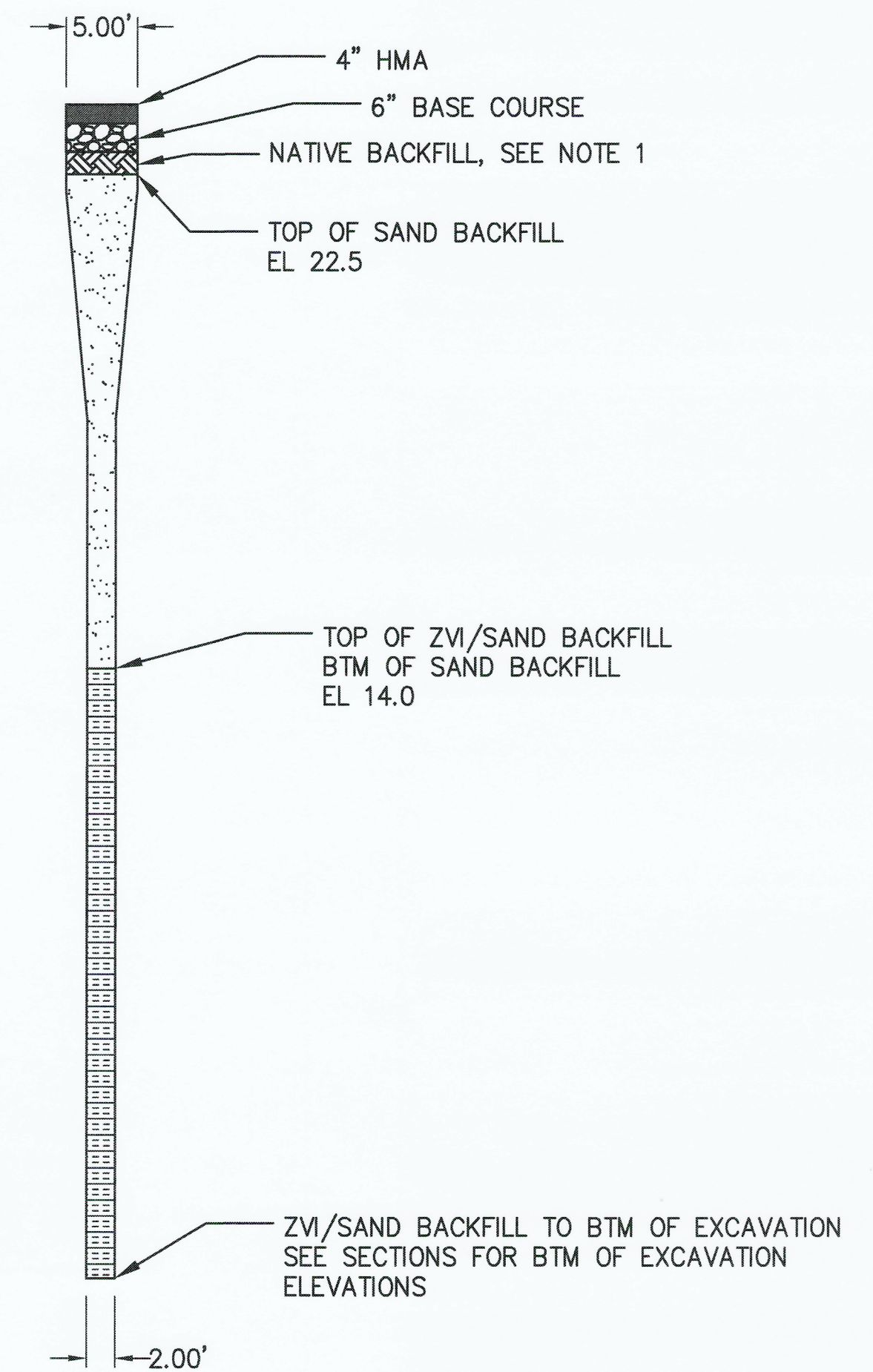
PORT OF TACOMA FILE: N:\2021\Portact\Part 3 - KPFF Design\3.13 Drawings\C1.1-C1.6 PRB DETAILS



A
C1.1
PRB CP #1 EXCAVATION
SCALE: HRZ - 1"=10', VRT 1"=2.5'

NOTES

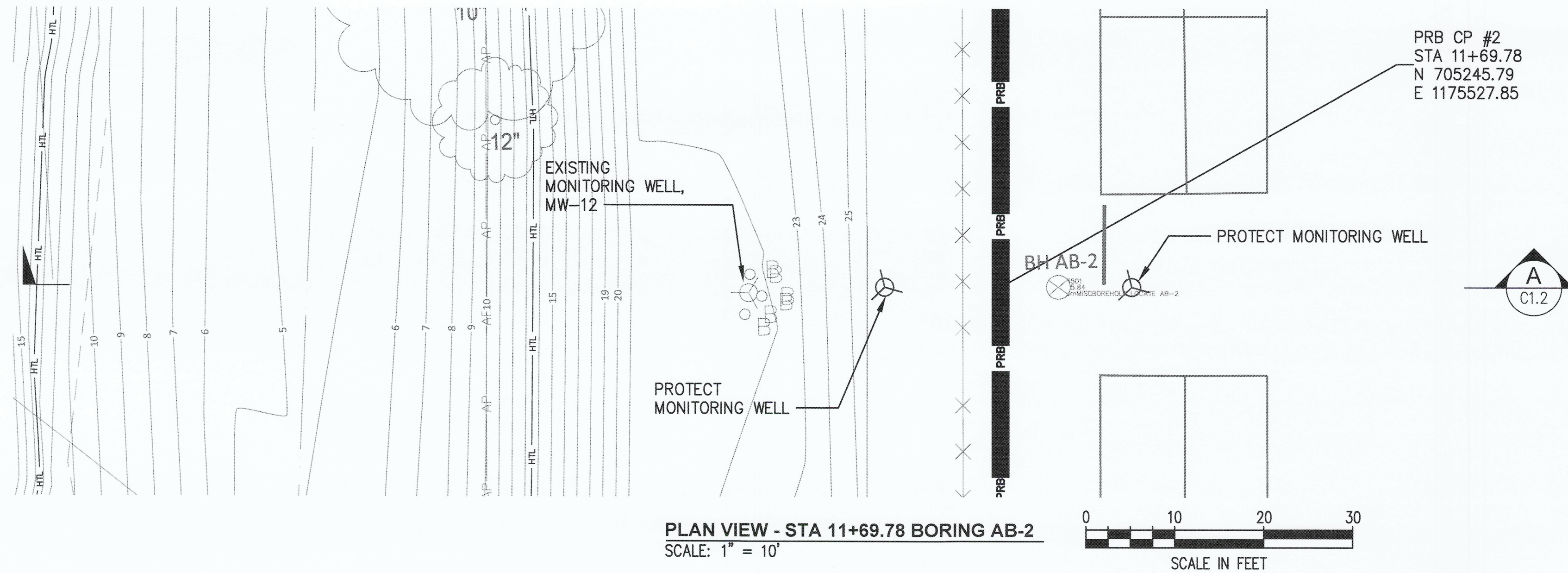
1. ALL ELEVATIONS ARE RELATIVE TO MLLW - EL 0.00'.
2. THE LOGS OF SOIL BORING AB-03 INSTALLED ADJACENT TO CP #3 IS INCLUDED IN SECTION 00 31 00 SPECIFICATIONS FOR THE CONTRACTORS REFERENCE.
3. ALL CRUSHED SURFACE BASE COURSE (CSBC) UNDERLYING THE ROLLER COMPACTED CONCRETE SHALL BE EXCAVATED, TEMPORARILY STOCKPILED, AND REUSED FOR RESTORATION. IF FREE OF UNDERLYING SOIL, THE CSBC IS NOT CONTAMINATED AND DOES NOT HAVE ANY SPECIAL HANDLING REQUIREMENTS. CSBC CONTAINING SOIL MUST BE HANDLED AS CONTAMINATED SOIL.
4. THE CONTRACTOR SHALL MAINTAIN A STABLE TRENCH IN ACCORDANCE WITH SECTION 31 23 33 SPECIFICATIONS.
5. BOTH CONTAMINATED FILL AND NATIVE SOIL SHOWN IN EXCAVATION PROFILE WILL BE HANDLED AS CONTAMINATED SOIL. ALL CONTAMINATED SOIL SHALL BE HANDLED IN ACCORDANCE WITH SECTION 01 74 16 SPECIFICATIONS. CONTAMINATED SOIL SHALL BE DISPOSED OF AT LRI SUBTITLE D LANDFILL IN PUYALLUP, WA WITH TACOMA-PIERCE COUNTY HEALTH DEPARTMENT WASTE DISPOSAL AUTHORIZATION NO. 2637.
6. THE PRB TRENCH DEPTH SHALL EXTEND AT LEAST 6 INCHES INTO LOW PERMEABILITY CLAY, KEYING-IN THE PRB TO FULLY INTERCEPT GROUNDWATER FLOW INTO WAPATO CREEK. THE MINIMUM REQUIRED DEPTH IS SHOWN AS BTM OF PRB AT 3.4 FT ELEVATION. THE PRB DEPTH WILL BE VERIFIED BY THE ENGINEER AND PRIOR TO ANY BACKFILL. VERIFICATION WILL INCLUDE CONFIRMATION OF THE LOW PERMEABILITY CLAY SOILS IN PRB TRENCH SPOILS.
7. THE CONTRACTOR SHALL SURVEY THE COMPLETED TRENCH DEPTH AT LEAST EVERY 25 LINEAR FEET OF PRB. THE ENGINEER WILL VERIFY PRB TRENCH DEPTH BEFORE BACKFILL.
8. PRB TRENCH BACKFILL SHALL COMMENCE AFTER ENGINEER VERIFICATION OF PRB DEPTH AND SHALL BE CONTINUOUS FOR OPEN TRENCH AREAS TO MINIMIZE SLURRY SUPPORTED OPEN TRENCH.
9. THE PRB WILL B BACKFILLED WITH ZVI/SAND MIX, AND SAND IN ACCORDANCE WITH SECTION 31 00 00 AND 31 23 33 SPECIFICATIONS.
10. THE ZVI/SAND, AND SAND BACKFILL SHOULD NOT EXCEED 8 INCH LIFTS AND MAY BE TAMPED WITH THE EXCAVATOR BUCKET. THERE ARE NO COMPACTION REQUIREMENTS FOR ZVI/SAND, AND SAND BACKFILL.
11. THE PRB TRENCH WILL BE RESTORED WITH BASE COURSE AND HOT MIX ASPHALT IN ACCORDANCE WITH SECTION 32 12 16 SPECIFICATIONS.



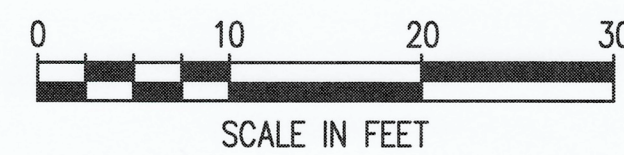
B
C1.1
TYPICAL PRB AND SURFACE RESTORATION DETAIL
SCALE: NTS

 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 236-0330 Fax (253) 236-0163 P.O. BOX 1007 TACOMA, WA 98403-0001	PORT OF TACOMA PARCEL 15 (PORTAC) CLEANUP PHASE 1 PRB SECTION CONTROL POINT 1	CHECKED BY: [Signature] DATE: 07/01/22 PROJECT: NW PROJECT ENGR: [Signature] DATE: 07/01/22 DIRECTOR: [Signature] DATE: [Signature] PRINTED BY: millard Jul 05, 2022 PORT ADDRESS: SITCOM WAY TACOMA, WA 98421
	6672 C1.1 6 OF 13 CONT/CONS: 071579 M. ID: 101531.01 PHASE: BID	TOWNSHIP: 20N RANGE: 03E SECTION: 01SE DAT-HRZ: WA-83 SF VERT: 19.18' @ TIDE 22 19.33 PARCEL: 5000350150 DRAWING SCALE: AS SHOWN

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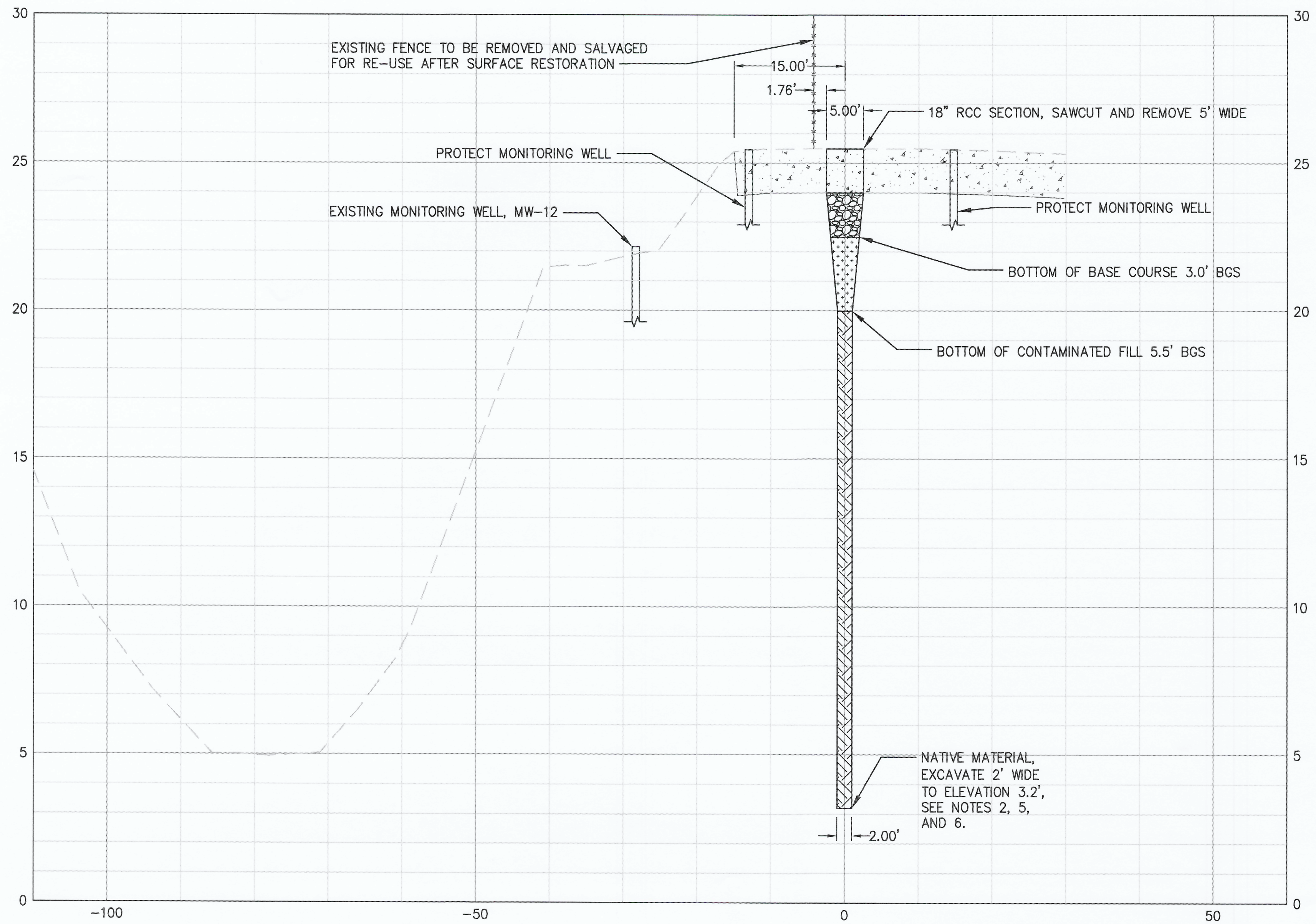


PLAN VIEW - STA 11+69.78 BORING AB-2
SCALE: 1" = 10'



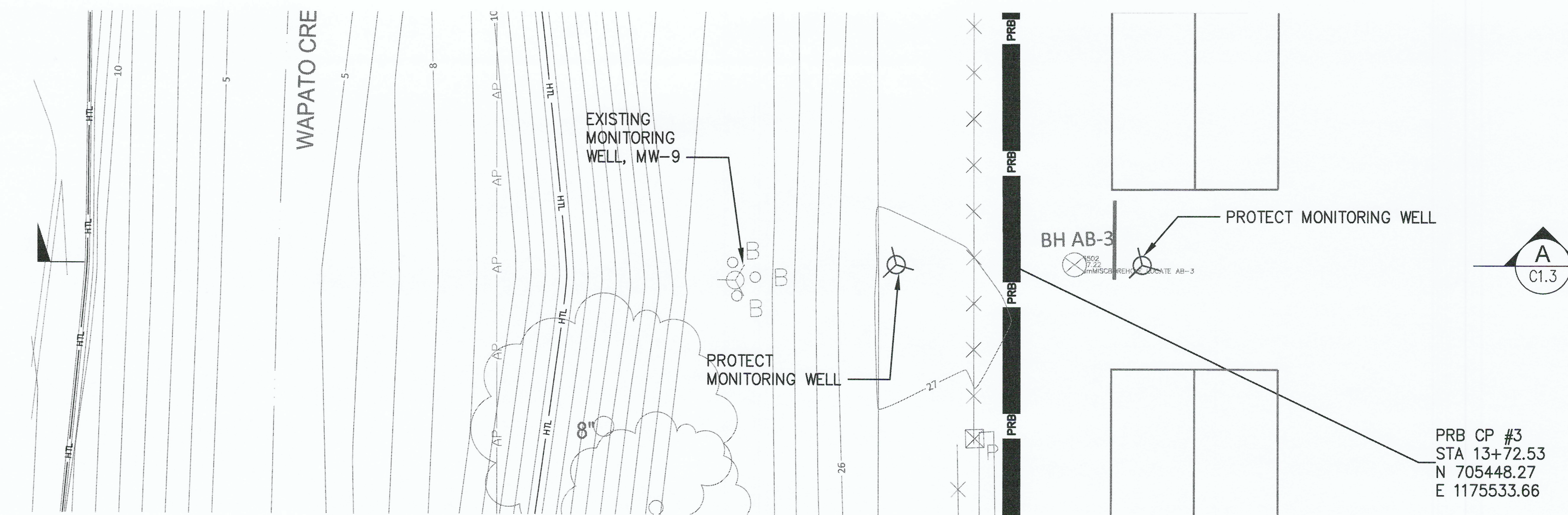
NOTES

1. ALL ELEVATIONS ARE RELATIVE TO MLLW - EL 0.00'.
2. THE LOGS OF SOIL BORING AB-03 INSTALLED ADJACENT TO CP #3 IS INCLUDED IN SECTION 00 31 00 SPECIFICATIONS FOR THE CONTRACTORS REFERENCE.
3. ALL CRUSHED SURFACE BASE COURSE (CSBC) UNDERLYING THE ROLLER COMPACTED CONCRETE SHALL BE EXCAVATED, TEMPORARILY STOCKPILED, AND REUSED FOR RESTORATION. IF FREE OF UNDERLYING SOIL, THE CSBC IS NOT CONTAMINATED AND DOES NOT HAVE ANY SPECIAL HANDLING REQUIREMENTS. CSBC CONTAINING SOIL MUST BE HANDLED AS CONTAMINATED SOIL.
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5. BOTH CONTAMINATED FILL AND NATIVE SOIL SHOWN IN EXCAVATION PROFILE WILL BE HANDLED AS CONTAMINATED SOIL. ALL CONTAMINATED SOIL SHALL BE HANDLED IN ACCORDANCE WITH SECTION 01 74 16 SPECIFICATIONS. CONTAMINATED SOIL SHALL BE DISPOSED OF AT LRI SUBTITLE D LANDFILL IN PUYALLUP, WA WITH TACOMA-PIERCE COUNTY HEALTH DEPARTMENT WASTE DISPOSAL AUTHORIZATION NO. 2637.
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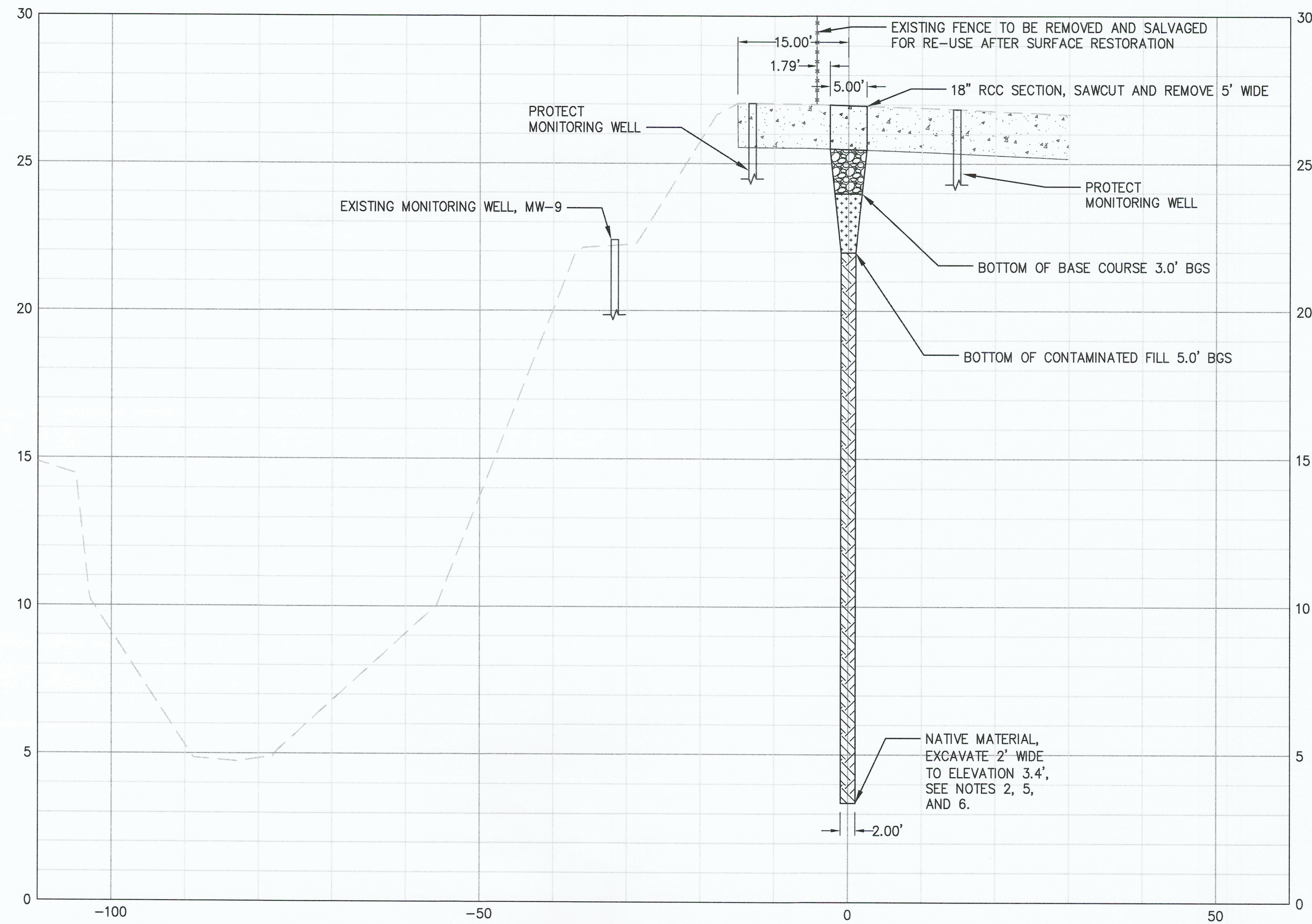
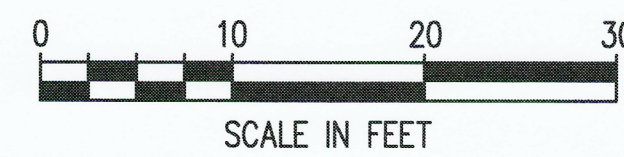


A PRB CP #2 EXCAVATION
C1.2 SCALE: HRZ - 1"=10', VRT - 1"=2.5'

			CMB 07/01/22 CHECKED BY DATE NW 07/01/22 DIRECTOR ENG. DATE PRINTED BY: maffei PORT ADDRESS: SITCUM WAY TACOMA, WA 98421
	2407 North 31st Street, Suite 100 Tacoma, Washington 98406 (253) 396-0330 Fax (253) 396-0162	P.O. BOX 1007 TACOMA, WA 98401 (253)396-8641	APPR: DATE: BY: DATE: REVISION:
6672 C1.2 OF 13 7 CONT/CONS: 071579 M. ID: 101531.01 PHASE: BID	THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION		



PLAN VIEW - STA 13+72.53 BORING AB-3
SCALE: 1" = 10'



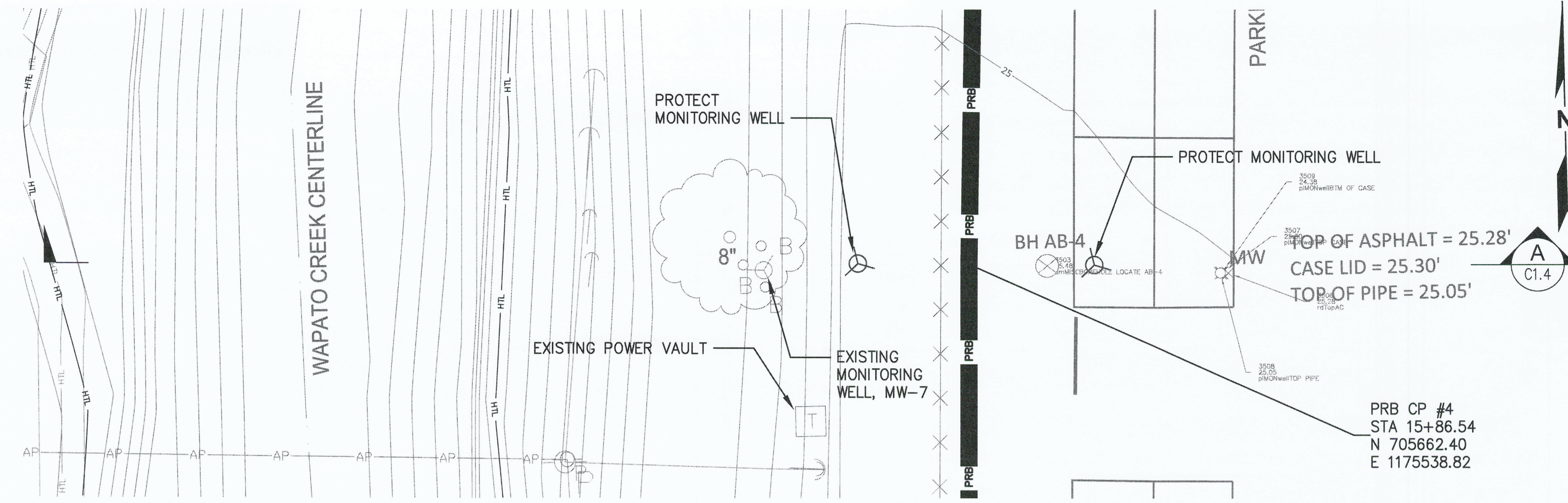
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NOTES

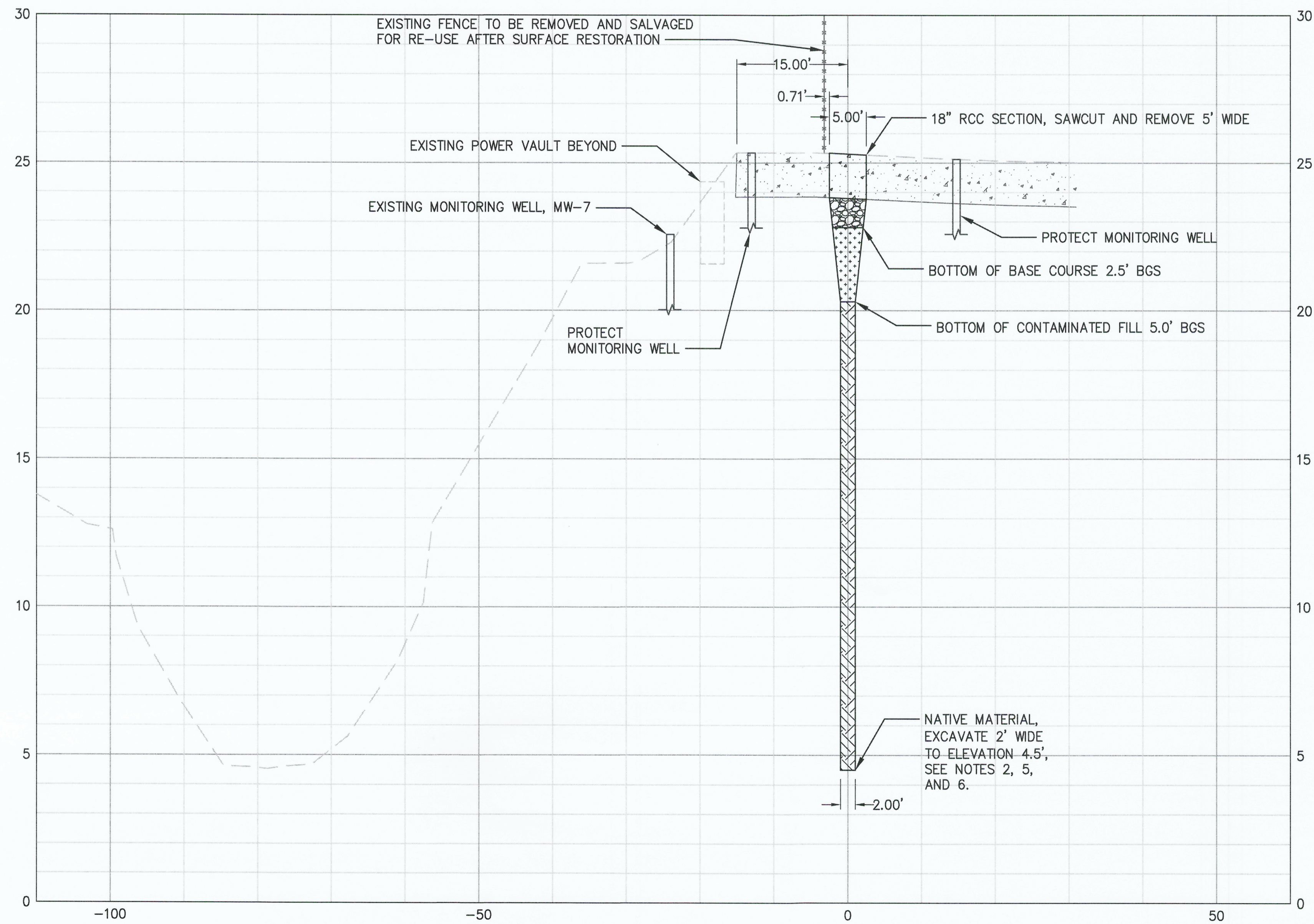
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 2407 North 31st Street, Suite 100 Tacoma, Washington 98507 (253) 395-0330 Fax (253) 396-0162 P.O. BOX 1007 TACOMA, WA 98402 (253)395-8641	APPROVED: <i>[Signature]</i> DIRECTOR PRINTED BY: mdillard PROJ. ENGR DATE: Jul 05, 2022 PORT ADDRESS: SITCUM WAY TACOMA, WA 98421	CMB CHECKED BY: NW DATE: 07/01/22
	PORT OF TACOMA PARCEL 15 (PORTAG) CLEANUP PHASE 1 PRB SECTION CONTROL POINT 3	TOWNSHIP: 20N RANGE: 03E SECTION: 01SE DAT-HRZ: WA-83 SF VERT: 19.18' @ TIDE 22.1933 PARCEL: 5000350150 DRAWING SCALE: AS SHOWN

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PLAN VIEW - STA 15+86.54 BORING AB-4
SCALE: 1" = 10'



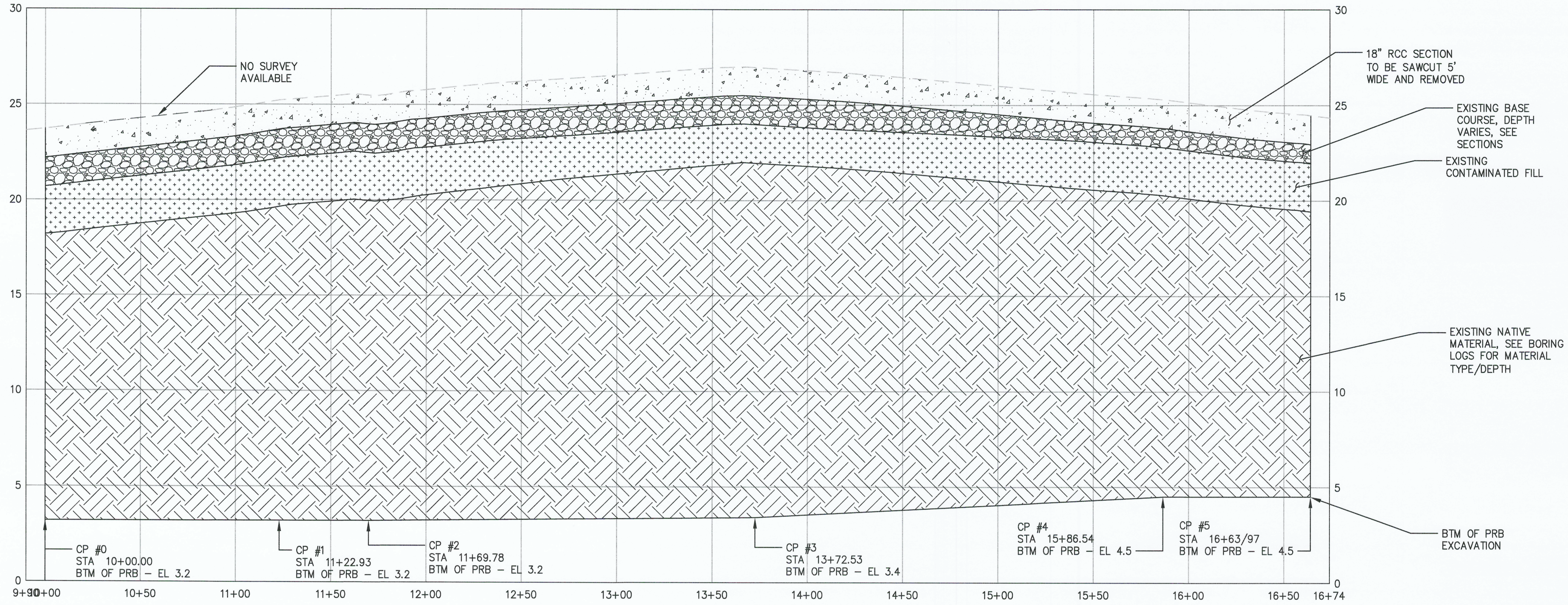
A PRB CP #4 EXCAVATION
SCALE: HRZ - 1"=10', VRT - 1"=2.5'

NOTES

- ALL ELEVATIONS ARE RELATIVE TO MLLW - EL 0.00'.
- THE LOGS OF SOIL BORING AB-03 INSTALLED ADJACENT TO CP #3 IS INCLUDED IN SECTION 00 31 00 SPECIFICATIONS FOR THE CONTRACTORS REFERENCE.
- ALL CRUSHED SURFACE BASE COURSE (CSBC) UNDERLYING THE ROLLER COMPACTED CONCRETE SHALL BE EXCAVATED, TEMPORARILY STOCKPILED, AND REUSED FOR RESTORATION. IF FREE OF UNDERLYING SOIL, THE CSBC IS NOT CONTAMINATED AND DOES NOT HAVE ANY SPECIAL HANDLING REQUIREMENTS. CSBC CONTAINING SOIL MUST BE HANDLED AS CONTAMINATED SOIL.
- THE CONTRACTOR SHALL MAINTAIN A STABLE TRENCH IN ACCORDANCE WITH SECTION 31 23 33 SPECIFICATIONS.
- BOTH CONTAMINATED FILL AND NATIVE SOIL SHOWN IN EXCAVATION PROFILE WILL BE HANDLED AS CONTAMINATED SOIL. ALL CONTAMINATED SOIL SHALL BE HANDLED IN ACCORDANCE WITH SECTION 01 74 16 SPECIFICATIONS. CONTAMINATED SOIL SHALL BE DISPOSED OF AT LRI SUBTITLE D LANDFILL IN PUYALLUP, WA WITH TACOMA-PIERCE COUNTY HEALTH DEPARTMENT WASTE DISPOSAL AUTHORIZATION NO. 2637.
- THE PRB TRENCH DEPTH SHALL EXTEND AT LEAST 6 INCHES INTO LOW PERMEABILITY CLAY, KEYING-IN THE PRB TO FULLY INTERCEPT GROUNDWATER FLOW INTO WAPATO CREEK. THE MINIMUM REQUIRED DEPTH IS SHOWN AS BTM OF PRB AT 3.4 FT ELEVATION. THE PRB DEPTH WILL BE VERIFIED BY THE ENGINEER AND PRIOR TO ANY BACKFILL. VERIFICATION WILL INCLUDE CONFIRMATION OF THE LOW PERMEABILITY CLAY SOILS IN PRB TRENCH SPOILS.
- THE CONTRACTOR SHALL SURVEY THE COMPLETED TRENCH DEPTH AT LEAST EVERY 25 LINEAR FEET OF PRB. THE ENGINEER WILL VERIFY PRB TRENCH DEPTH BEFORE BACKFILL.
- PRB TRENCH BACKFILL SHALL COMMENCE AFTER ENGINEER VERIFICATION OF PRB DEPTH AND SHALL BE CONTINUOUS FOR OPEN TRENCH AREAS TO MINIMIZE SLURRY SUPPORTED OPEN TRENCH.
- THE PRB WILL BE BACKFILLED WITH ZVI/SAND MIX, AND SAND IN ACCORDANCE WITH SECTION 31 00 00 AND 31 23 33 SPECIFICATIONS.
- THE ZVI/SAND, AND SAND BACKFILL SHOULD NOT EXCEED 8 INCH LIFTS AND MAY BE TAMPED WITH THE EXCAVATOR BUCKET. THERE ARE NO COMPACTION REQUIREMENTS FOR ZVI/SAND, AND SAND BACKFILL.
- THE PRB TRENCH WILL BE RESTORED WITH BASE COURSE AND HOT MIX ASPHALT IN ACCORDANCE WITH SECTION 32 12 16 SPECIFICATIONS.

			CMB CHECKED BY: <i>Alan J. Howard</i> DATE: 07/01/22
	2407 North 244 Street, Suite 100 Tacoma, WA 98407 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 1807 TACOMA, WA 98401 (253)396-9441	APPR: _____ DATE: _____ BY: _____ REVISION: _____	PROJECT: NW PROJ. ENGR: DATE: 07/01/22 DIRECTOR ENG. DATE: mdillard Jul 05, 2022 PRINTED BY: mdillard PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98421
6672 C1.4 9 OF 13	PORT OF TACOMA PARCEL 15 (PORTAC) CLEANUP PHASE 1 PRB SECTION CONTROL POINT 4	TOWNSHIP: 20N RANGE: 03E SECTION: 01SE DAT-HRZ: WA-83 SF VERT: 19.18' @ TIDE 22 1933 PARCEL: 5000350150 DRAWING SCALE: AS SHOWN	APPROVED: _____ DATE: 07/01/22

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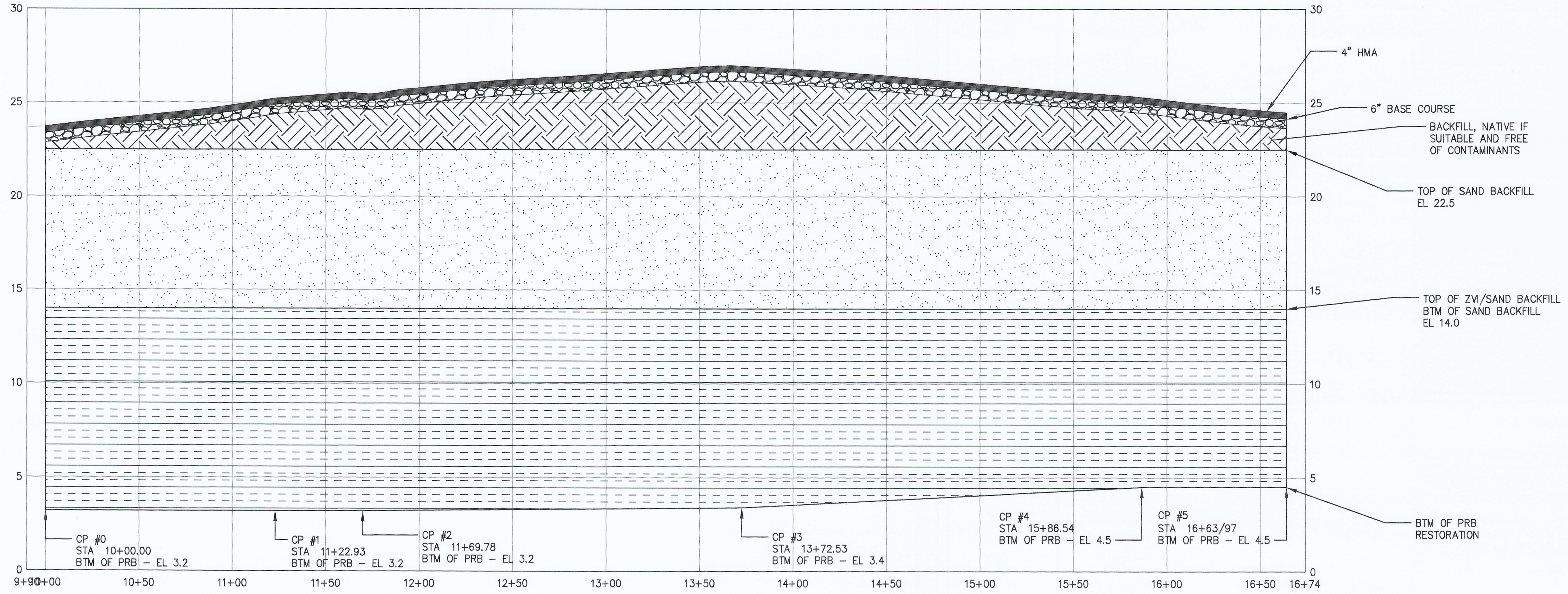
NOTES

- ALL ELEVATIONS ARE RELATIVE TO MLLW - EL. 0.00'.
- ALL CRUSHED SURFACE BASE COURSE (CSBC) UNDERLYING THE ROLLER COMPACTED CONCRETE SHALL BE EXCAVATED, TEMPORARILY STOCKPILED, AND REUSED FOR RESTORATION. IF FREE OF UNDERLYING SOIL, THE CSBC IS NOT CONTAMINATED AND DOES NOT HAVE ANY SPECIAL HANDLING REQUIREMENTS. CSBC CONTAINING SOIL MUST BE HANDLED AS CONTAMINATED SOIL.
- THE CONTRACTOR SHALL MAINTAIN A STABLE TRENCH IN ACCORDANCE WITH SECTION 31 23 33 SPECIFICATIONS.
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- THE PRB TRENCH DEPTH SHALL EXTEND AT LEAST 6 INCHES INTO LOW PERMEABILITY CLAY, KEYING-IN THE PRB TO FULLY INTERCEPT GROUNDWATER FLOW INTO WAPATO CREEK. THE PRB DEPTH WILL BE VERIFIED BY THE ENGINEER AND PRIOR TO ANY BACKFILL. VERIFICATION WILL INCLUDE CONFIRMATION OF THE LOW PERMEABILITY CLAY SOILS IN PRB TRENCH SPOILS.
- THE CONTRACTOR SHALL SURVEY THE COMPLETED TRENCH DEPTH AT LEAST EVERY 25 LINEAR FEET OF PRB. THE ENGINEER WILL VERIFY PRB TRENCH DEPTH BEFORE BACKFILL.

PRB EXCAVATION PROFILE

SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

2407 North 3rd Street, Suite 100 Tacoma, WA 98403 (253) 396-0150 Fax (253) 396-0162		2407 North 3rd Street, Suite 100 Tacoma, WA 98403 (253) 396-0150 Fax (253) 396-0162		2407 North 3rd Street, Suite 100 Tacoma, WA 98403 (253) 396-0150 Fax (253) 396-0162	
DATE:	APPR:	BY:	REVISION:	DATE:	APPR:
CMB 07/01/22	CHECKED BY DATE	NW 07/01/22	PROJECT ENG. DATE	PROJ. ENGR DATE	PRINTED BY:
APPROVED:		DIRECTOR	DATE	PROJ. ENGR DATE	PRINTED BY:
PORT OF TACOMA	PARCEL 15 (PORTAC) CLEANUP PHASE 1	TOWNSHIP: 20N	RANGE: 03E	SECTION: 01SE	DATE: 07/01/22
6672	C1.5	DAT-HRZ: WA-83 SF	VERT: 19.18' @ TIDE 22 1933	DRAWING SCALE: AS SHOWN	PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98421
CONT/CONS: 071579	OF 13	M. ID: 101531.01	PHASE: BID	THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK. DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION	DATE:



NOTES

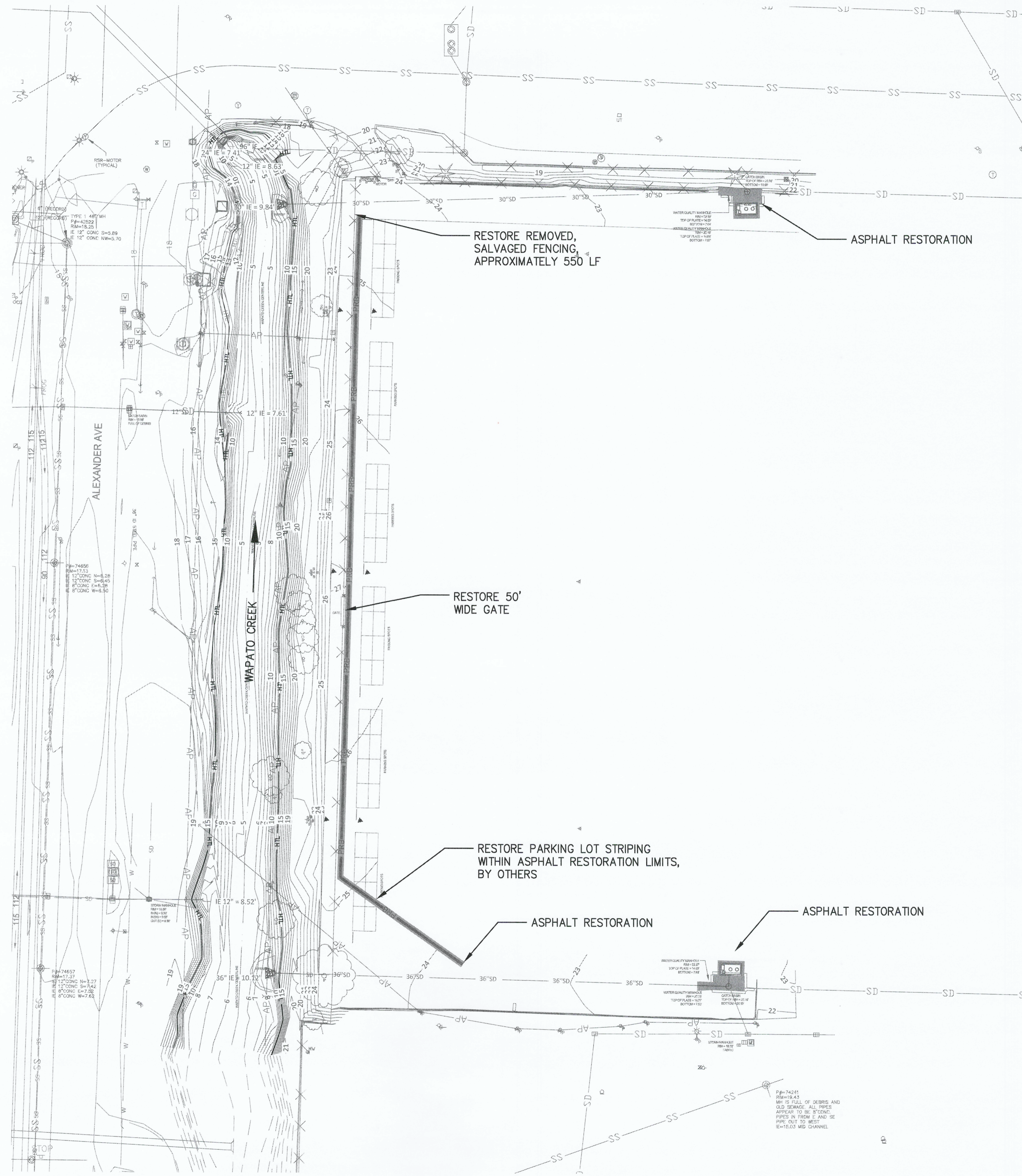
1. ALL ELEVATIONS ARE RELATIVE TO MLLW - EL. 0.00'.
2. THE CONTRACTOR SHALL SURVEY THE COMPLETED TRENCH DEPTH AT LEAST EVERY 25 LINEAR FEET OF PRB. THE ENGINEER WILL VERIFY PRB TRENCH DEPTH BEFORE BACKFILL.
3. PRB TRENCH BACKFILL SHALL COMMENCE AFTER ENGINEER VERIFICATION OF PRB DEPTH AND SHALL BE CONTINUOUS FOR OPEN TRENCH AREAS TO MINIMIZE SLURRY SUPPORTED OPEN TRENCH.
4. THE PRB WILL BE BACKFILLED WITH ZVI/SAND MIX, AND SAND IN ACCORDANCE WITH SECTION 31 00 00 AND 31 23 33 SPECIFICATIONS.
5. THE ZVI/SAND, AND SAND BACKFILL SHOULD NOT EXCEED 8 INCH LIFTS AND MAY BE TAMPED WITH THE EXCAVATOR BUCKET. THERE ARE NO COMPACTION REQUIREMENTS FOR ZVI/SAND, AND SAND BACKFILL.
6. STOCKPILED CSBC MAY BE USED TO BACKFILL ABOVE SAND BACKFILL AND UNDER HMA BASE COURSE.
7. THE PRB TRENCH WILL BE RESTORED WITH BASE COURSE AND HOT MIX ASPHALT IN ACCORDANCE WITH SECTION 32 12 16 SPECIFICATIONS.

PRB RESTORATION PROFILE

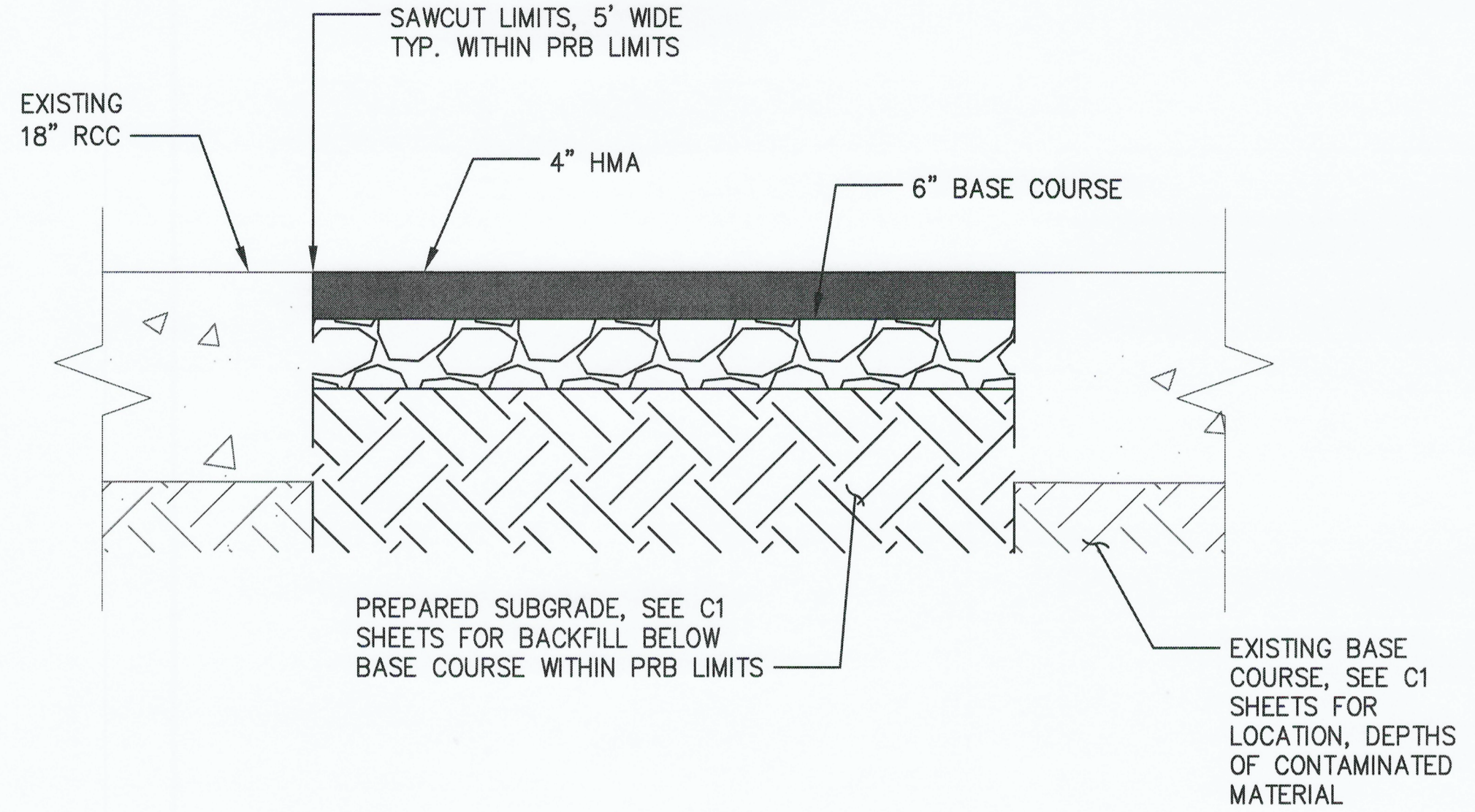
SCALE: HORIZONTAL - 1" = 30'
VERTICAL - 1" = 3'

	2407 North 31st Street, Suite 100 Tacoma, WA 98403 (253) 896-0350 Fax (253) 896-0162		APPR: _____ DATE: _____
		MARK: _____ REVISION: _____ BY: _____	DATE: _____
APPROVED: _____ DIRECTOR ENGR. DATE: _____ PRINTED BY: _____ PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98421	CMB: _____ CHECKED BY: _____ DATE: _____	NW PROJ. ENGR. DATE: _____ DATE: _____	07/01/22 DATE: _____
6672 C1.6 11 OF 13 CONT/CONS: 071579 M. ID: 101531.01 PHASE: BID	PORT OF TACOMA PARCEL 15 (PORTAC) CLEANUP PHASE 1 PRB RESTORATION PROFILE	TOWNSHIP: 20N RANGE: 03E SECTION: 01SE DAT-HRZ: WA-83 SF VERT: 19.18' @ TIDE 22 1933 PARCEL: 5000350150 DRAWING SCALE: AS SHOWN	07/01/22 DATE: _____

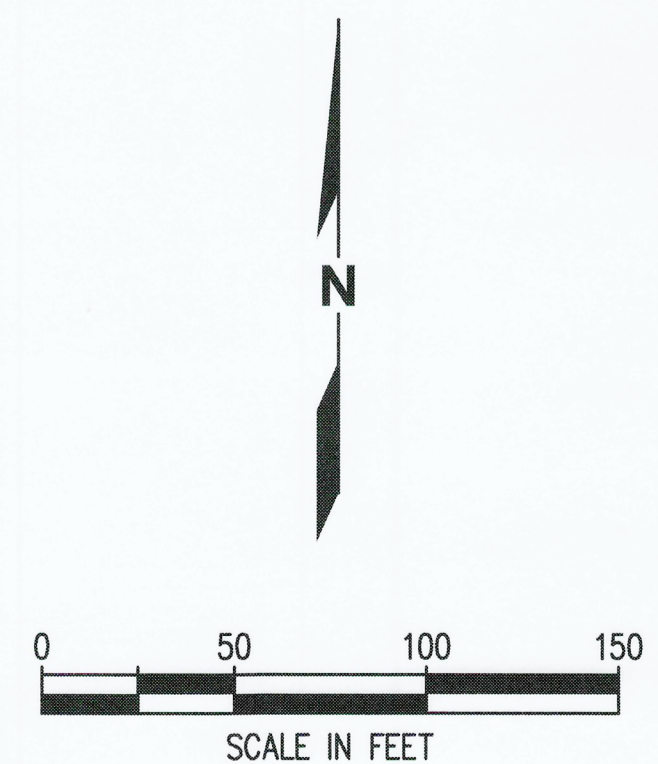
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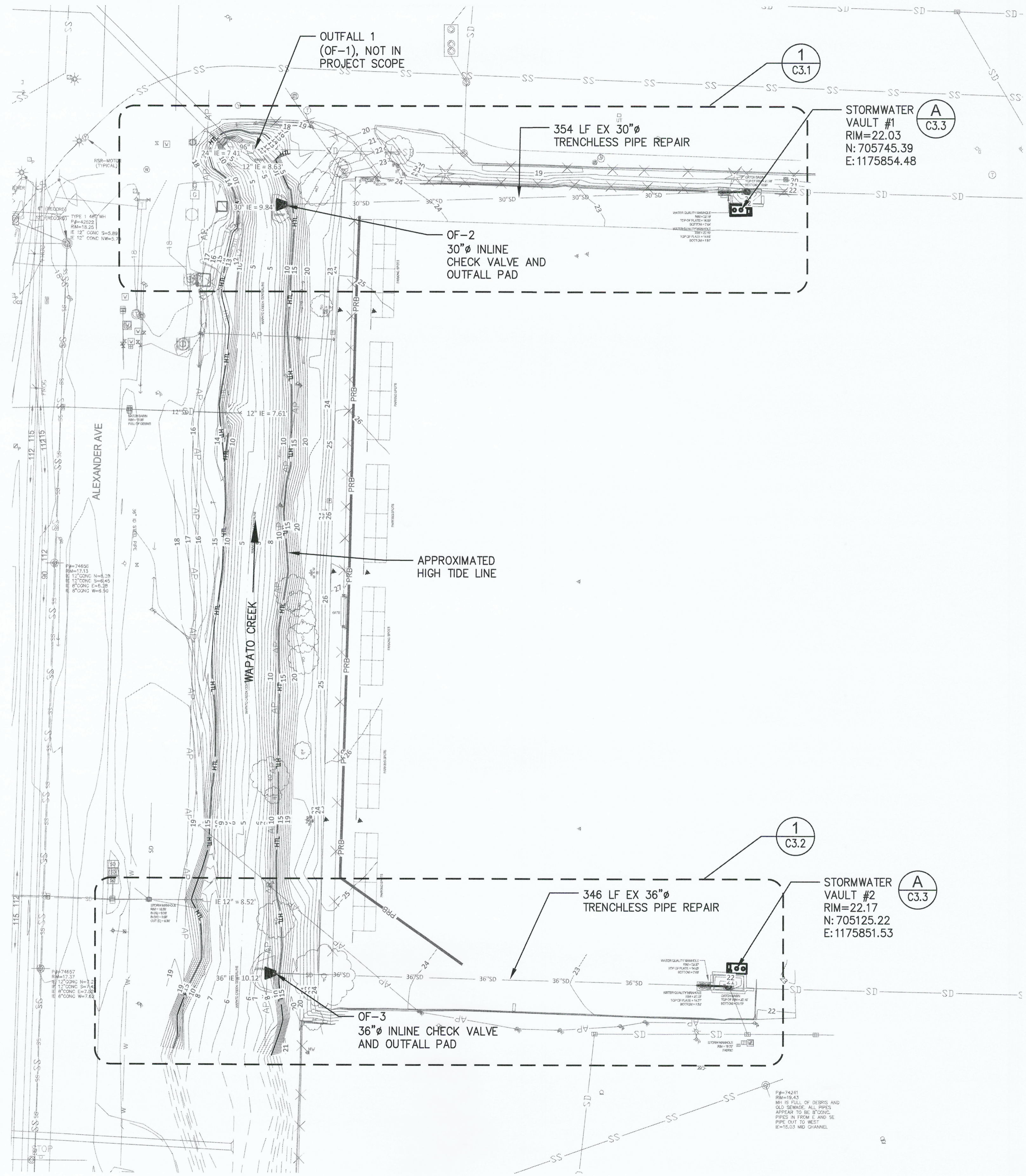
LEGEND



1 C2.0 TYPICAL PAVEMENT RESTORATION DETAIL
SCALE: 1" = 1'

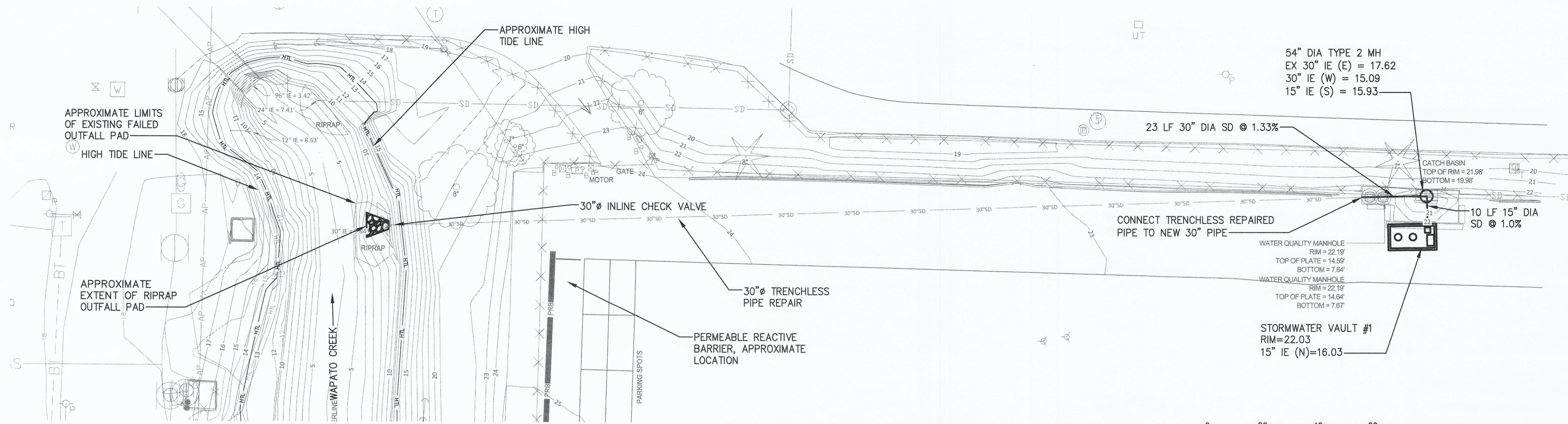


 2407 North 3rd Street, Suite 100 (253) 396-0150 Fax (253) 396-0162 P.O. BOX 189 TACOMA, WA 98401 (253)396-8641	APPR: _____ DATE: _____
	BY: _____ REVISION: _____
APPROVED: <i>Matthew J. Mullaney</i> DIRECTOR DATE: 07/01/22	CHECKED BY: <i>NW</i> DATE: 07/01/22
PRINTED BY: <i>mullaney</i> Jul 05, 2022 PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98421	
PORT OF TACOMA PARCEL 15 (PORTAC) CLEANUP PHASE 1 SITE/RESTORATION PLAN	
6672 C2.0 12 OF 13	TOWNSHIP: 20N RANGE: 03E SECTION: 01SE DAT-HRZ: WA-83 SF VERT: 19.18' @ TIDE 22 19.33 PARCEL: 5000350150 DRAWING SCALE: AS SHOWN
CONT/CONS: 071579 M. ID: 101531.01 PHASE: BID	THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

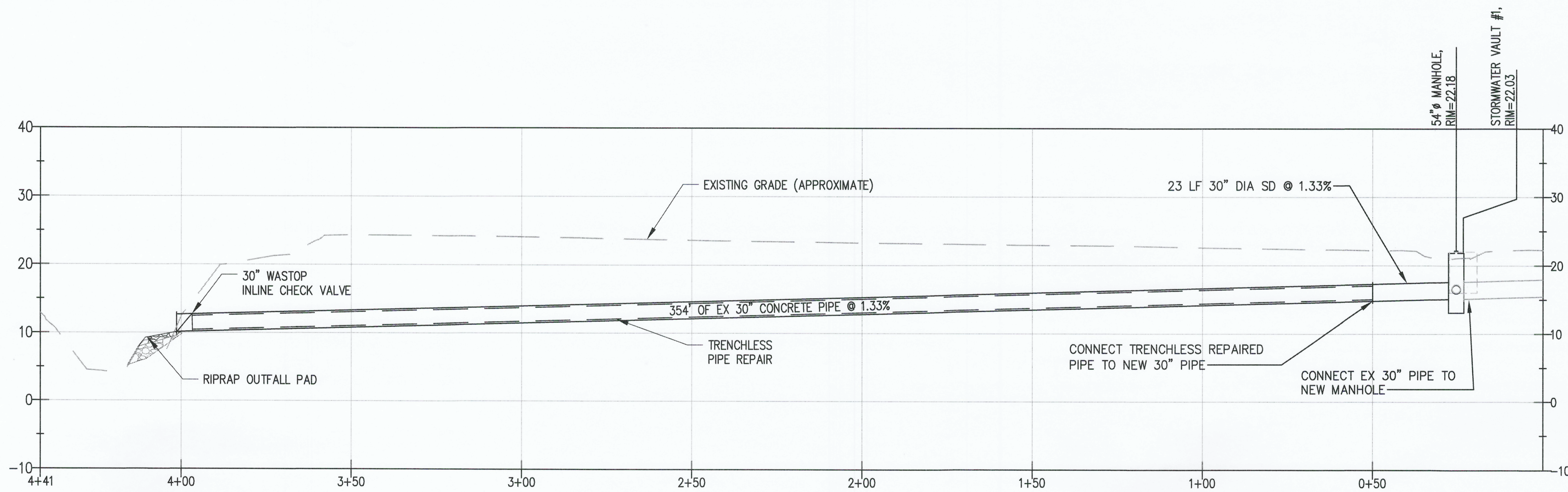
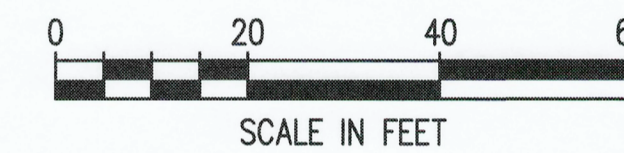


<p>6672 C3.0 13 OF 13</p>	<p>PORT OF TACOMA PARCEL 15 (PORTAC) CLEANUP PHASE 1 STORM DRAINAGE PLAN</p>		<p>APPROVED: [Signature]</p>	<p>CMB 07/01/22 CHECKED BY: [Signature] DATE: 07/01/22 NW PROJECT ENGR: [Signature] DATE: 07/01/22 DIRECTOR ENGR: [Signature] DATE: 07/01/22 PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98421</p>	<p>2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162</p>	<p>Port of Tacoma P.O. BOX 837 TACOMA, WA 98401</p>
	<p>CONT/CONS: 071579 M. ID: 101631.01 PHASE: BID</p>	<p>TOWNSHIP: 20N DATE-HRZ: WA-83 SF RANGE: 03E DAT: 19.18' @ TIDE 22 1933 PARCEL: 5000350150</p>	<p>SECTION: 01SE DRAWING SCALE: AS SHOWN</p>	<p>MARK: [] REVISION: [] BY: [] DATE: []</p>	<p>APPR: [] DATE: []</p>	<p>kpff</p>

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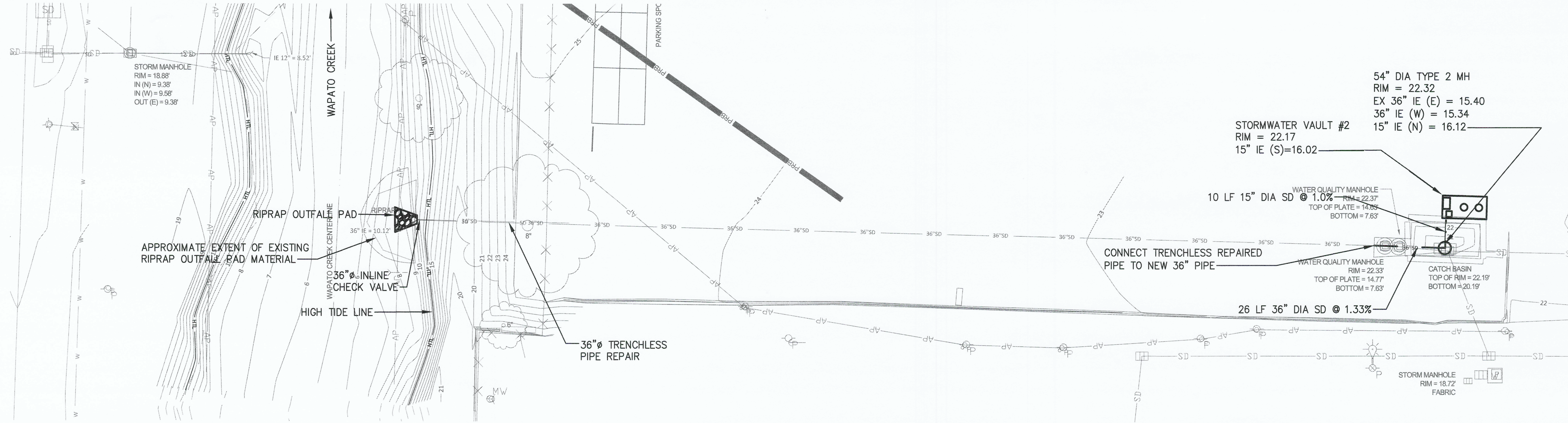


1 NORTH STORM DRAIN
SCALE: 1"=20'

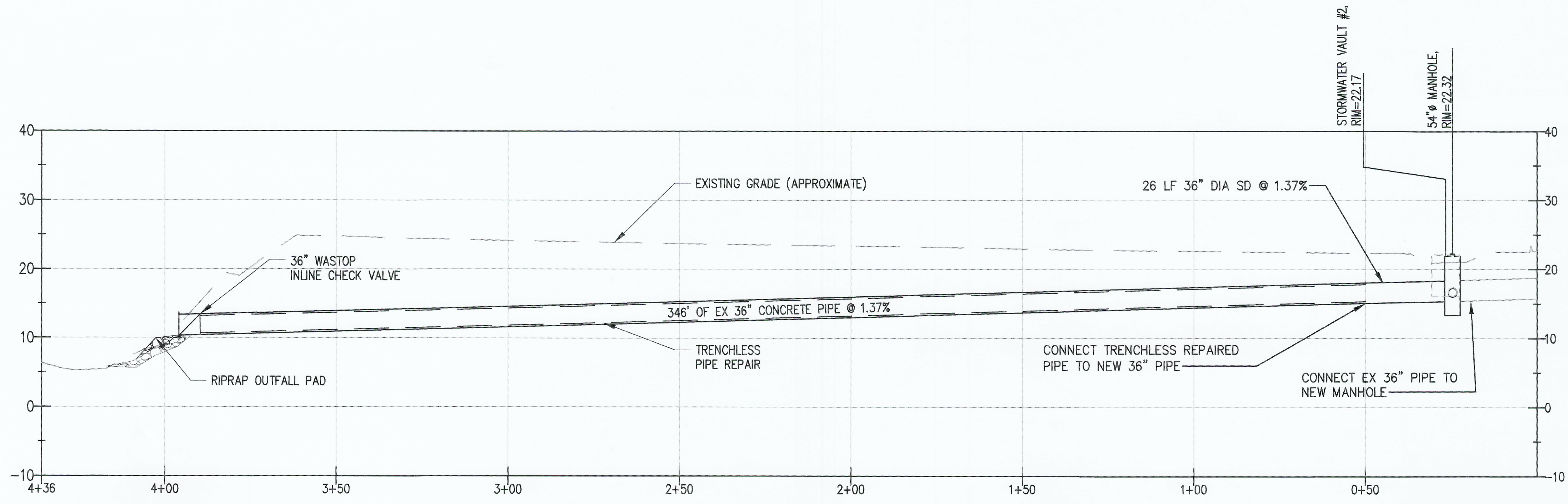
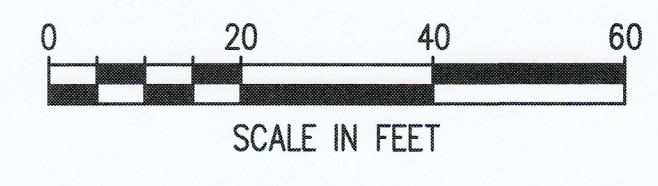


2 NORTH STORM DRAIN PROFILE
SCALE: HORZ 1"=20' VERT 1"=10'

<p>6672</p> <p>C3.1</p> <p>14 OF 13</p>	<p>CONTRACTOR: 071579</p> <p>M. ID: 101531.01</p> <p>PHASE: BID</p>	<p>TOWNSHIP: 20N</p> <p>DATE-HRZ: WA-83 SF</p> <p>PARCEL: 5000350150</p>	<p>RANGE: 03E</p> <p>SECTION: 01SE</p> <p>DATE-HRZ: WA-83 SF</p> <p>DRAWING SCALE: AS SHOWN</p>	<p>PROJECT: PARCEL 15 (PORTAC) CLEANUP PHASE 1</p> <p>PROJECT: NORTH STORM DRAIN ENLARGED PLAN AND PROFILE</p>	<p>APPROVED: <i>[Signature]</i></p> <p>DIRECTOR: <i>[Signature]</i></p> <p>PRINTED BY: cbennett</p>	<p>CMB: 07/01/22</p> <p>CHECKED BY: NW</p> <p>PROJ. ENGR: DATE</p> <p>PRINTED BY: cbennett Jul 06, 2022</p> <p>PORT ADDRESS: 1 SITCUM WAY</p> <p>TACOMA, WA 98421</p>	<p>Port of Tacoma</p> <p>2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162</p> <p>kpff</p> <p>2201010000</p>	<p>BY: _____</p> <p>APPR: _____</p> <p>DATE: _____</p>
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1 SOUTH STORM DRAIN
SCALE: 1"=20'

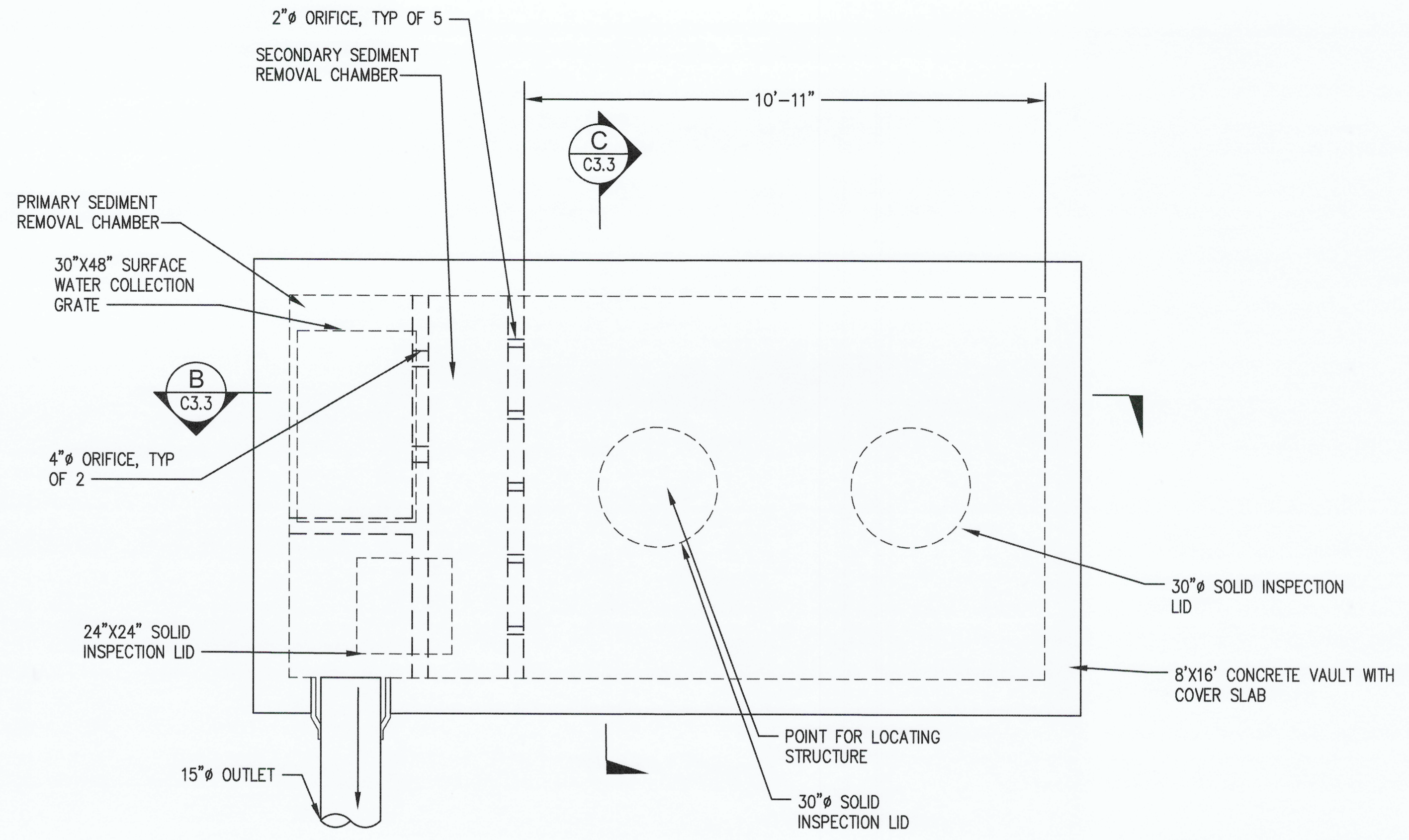


2 SOUTH STORM DRAIN PROFILE
SCALE: HORZ 1"=20' VERT 1"=10'

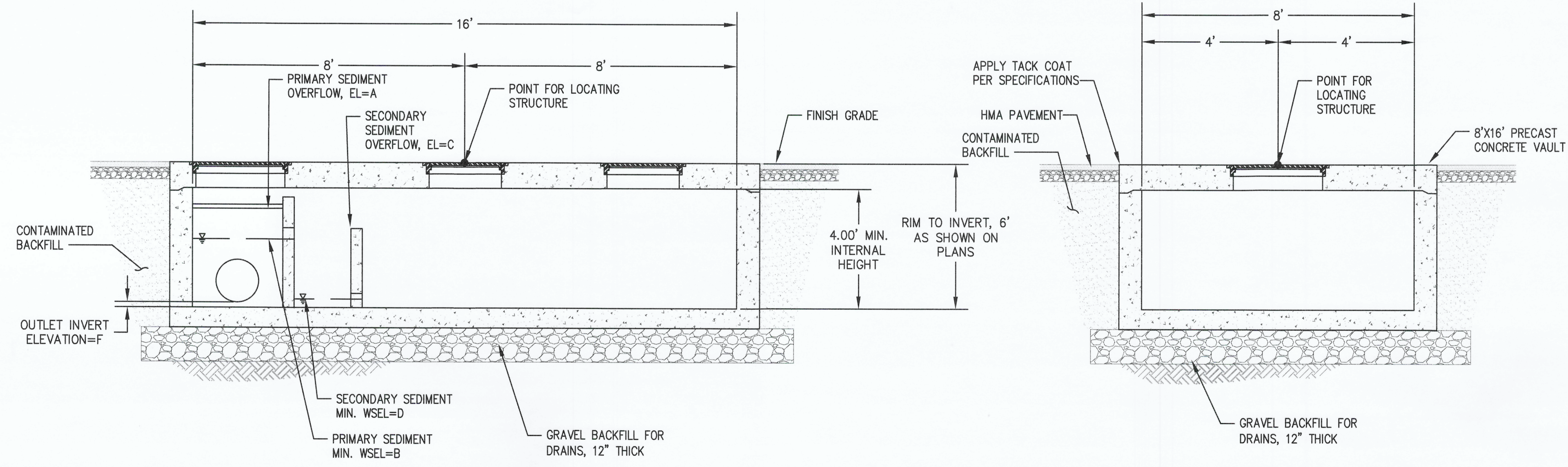
 6672 C3.2 15 OF 13	PORT OF TACOMA PARCEL 15 (PORTAC) CLEANUP PHASE 1 SOUTH STORM DRAINAGE ENLARGED PLAN AND PROFILE		APPROVED: <i>[Signature]</i> DIRECTOR PROJECT ENGINEER	CMB: 07/01/22 CHECKED BY: NW PROJECT ENGINEER	DATE: 07/01/22
	TOWNSHIP: 20N RANGE: 03E SECTION: 01SE DAT-HRZ: WA-83 SF VERT: 19.18' @ TIDE 22.1933 PARCEL: 5000350150 DRAWING SCALE: AS SHOWN	PRINTED BY: cbennett Jul 06, 2022 PORT ADDRESS: SITCUM WAY TACOMA, WA 98421	MARK: REVISION: BY: DATE:	APPR: DATE:	

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BINDING EDGE



A STORMWATER VAULT, TYPICAL
 SCALE: 1" = 2'



B STORMWATER VAULT SECTION
 SCALE: 1" = 2'

C STORMWATER VAULT SECTION
 SCALE: 1" = 2'

STORMWATER VAULT

- ELEVATIONS:
 A = 43" ABOVE VAULT FLOOR, 37.5" W/ONE 2X2 FLASHBOARD
 B = 24" ABOVE VAULT FLOOR
 C = 28" ABOVE VAULT FLOOR, 35" W/TWO 2X4 FLASHBOARDS
 D = 3" ABOVE VAULT FLOOR
 E = 45" ABOVE VAULT FLOOR
 F = 2" ABOVE VAULT FLOOR

PORT OF TACOMA FILE: N:\2021\Portac\C3.3 Drawings\C3.3 STORM DRAINAGE DETAILS

 Port of Tacoma P.O. BOX 187 TACOMA, WA 98401-0187 2007 North 34th Street, Suite 100 Tacoma, Washington 98409 (253) 396-0150 Fax (253) 396-0162	DATE: _____ APPR: _____
	BY: _____ REVISION: _____
	APPROVED: <i>Christopher Bennett</i> DIRECTOR ENG. DATE: 7/6/22 PRINTED BY: cbennett PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98421
CMB CHECKED BY: NW DATE: 07/01/22	PROJECT: 19187 PROJ. ENGR: NW DATE: 07/01/22
6672 C3.3 OF 13	PORT OF TACOMA PARCEL 15 (PORTAC) CLEANUP PHASE 1 STORM DRAINAGE DETAILS
CONT/CONS: 071579 M. ID: 101531.01 PHASE: BID	TOWNSHIP: 20N RANGE: 03E SECTION: 01SE DAT-HRZ: WA-83 SF VERT: 1918' @ TIDE 22 1933 PARCEL: 5000350150 DRAWING SCALE: AS SHOWN

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