

PORT OF TACOMA

ARKEMA INTERIM ACTION - PHASE 1

CONTRACT NO. PA000000403

PROJECT NO. 101585.01

PORT COMMISSIONERS:

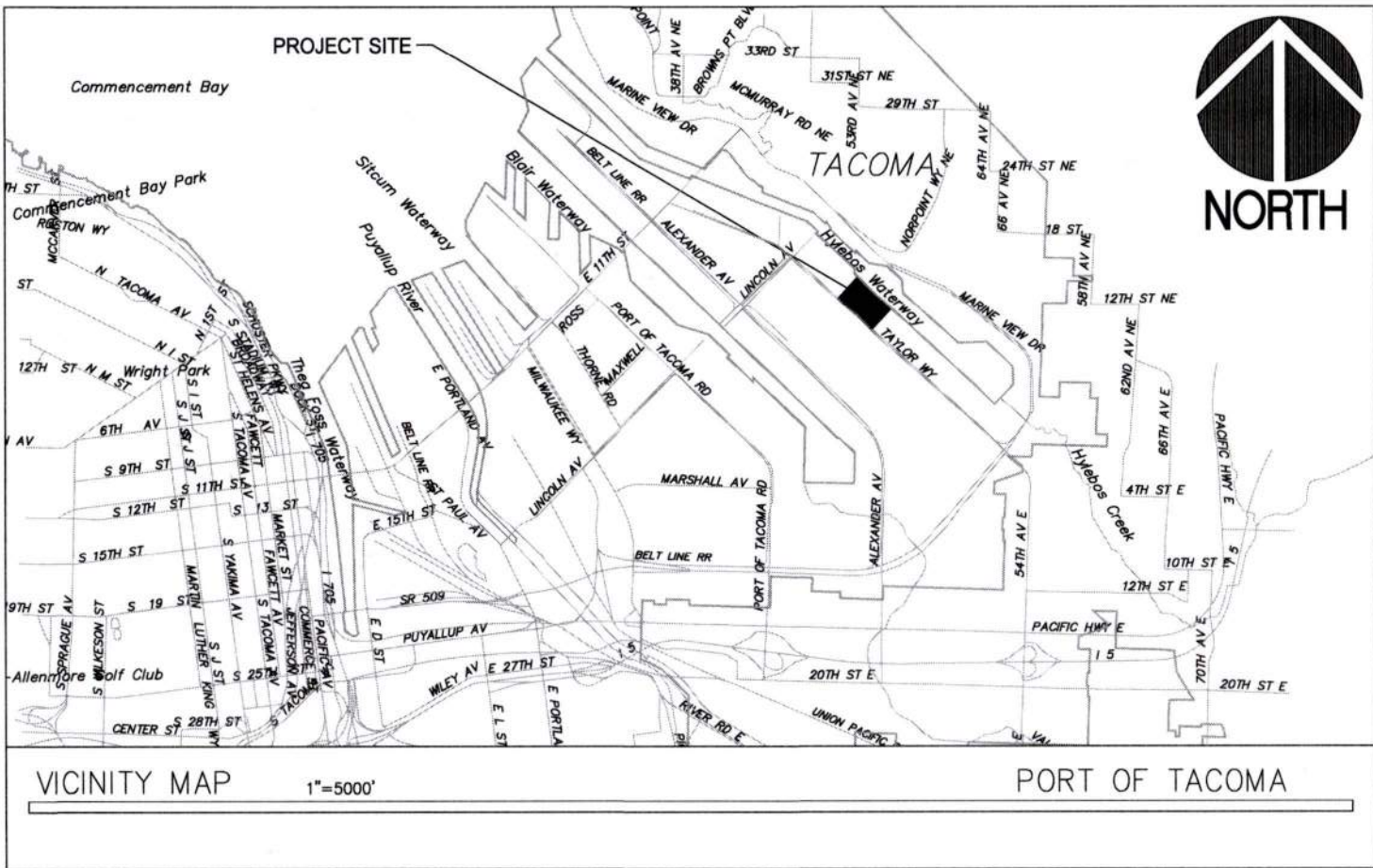
RICHARD P. MARZANO
JT WILCOX
JOHN MCCARTHY
KRISTIN ANG
DEANNA KELLER

PORT STAFF:

ERIC JOHNSON
Port of Tacoma Executive Director

THAIS HOWARD, P.E.
Director of Engineering

BRETT OZOLIN, P.E.
Project Manager



GENERAL PROJECT NOTES

1. THE LOCATIONS OF ALL UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTING UTILITY LOCATIONS PRIOR TO SUBSURFACE WORK. TO LOCATE UTILITIES, CALL THE UNDERGROUND LOCATE LINE AT 1-811-424-5555 OR 811. UTILITIES IDENTIFIED ON SHEETS D3.1 THROUGH D3.4 WERE IDENTIFIED DURING SHALLOW TRENCHING UTILITY INVESTIGATION WORK ALONG THE CONTAINMENT WALL ALIGNMENT AS PART OF THE PRE-DESIGN INVESTIGATION FIELD WORK. TRENCHING DEPTHS RANGED FROM THREE TO FOUR FEET BELOW GROUND SURFACE. UTILITIES MAY BE PRESENT BELOW THESE DEPTHS.
2. WHERE CONFLICTS OCCUR BETWEEN EXISTING FEATURES AND THE PLACEMENT OF NEW FACILITIES, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BY THE CONTRACTOR, AND WILL BE RESOLVED BY THE ENGINEER.
3. CONTRACTOR IS WARNED THAT SITE SOIL AND GROUNDWATER IS IMPACTED WITH ARSENIC AT LEVELS CONSIDERED HAZARDOUS.
SUCH MATERIALS, WHEN ENCOUNTERED, SHALL BE HANDLED APPROPRIATELY IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATORY REQUIREMENTS.

PRE-CONSTRUCTION SUBMITTALS

1. CONTRACTOR SHALL SUBMIT WORK PLAN DISCUSSING TEMPORARY EROSION AND SEDIMENT CONTROLS (TESC), HAZARDOUS MATERIAL HANDLING DESCRIPTIONS, PROJECT APPROACH, SEQUENCING (IF APPROPRIATE), SCHEDULE, ANY SUBCONTRACTORS, EQUIPMENT TO BE USED, AND OTHER RELEVANT INFORMATION TO COMPLETE THE WORK DESCRIBED IN THE PROJECT DOCUMENTS.
2. PROVIDE THE SOURCE OF BORROW MATERIAL AND SAMPLES FOR CHEMICAL ANALYSIS IN ACCORDANCE WITH APPENDIX A (INTERIM ACTION WORK PLAN), SUB-APPENDIX I AT LEAST THREE WEEKS PRIOR TO IMPORT TO THE SITE. BORROW MATERIALS MUST NOT EXCEED LEVELS SET FORTH IN THE ABOVE REFERENCED APPENDIX.
3. ALL PRE-CONSTRUCTION SUBMITTALS REQUIRED IN THE SPECIFICATIONS.

CONSTRUCTION SUBMITTALS

1. CHAIN OF CUSTODY AND LABORATORY RESULTS FOR SAMPLES COLLECTED, THESE INCLUDE BUT ARE NOT LIMITED TO, PERSONAL MONITORING SAMPLES, MATERIAL TESTING RESULTS, ETC.
2. VENDOR SPECIFICATION SHEETS AND SHOP DRAWINGS FOR MATERIALS AND PRODUCTS RELATED TO THE PROJECT.
3. ALL CONSTRUCTION SUBMITTALS REQUIRED IN THE SPECIFICATIONS.

POST-CONSTRUCTION SUBMITTALS

1. ANY DOCUMENTATION ON THE PROJECT THAT WAS NOT PREVIOUSLY SUBMITTED, E.G. TRUCK SCALE TICKETS FOR IMPORTED MATERIALS.
2. ALL POST-CONSTRUCTION SUBMITTALS REQUIRED IN THE SPECIFICATIONS.

SURVEY NOTES – SEE SHEET G2.0

1. SITE SURVEY TITLED "EXISTING TOPOGRAPHIC SURVEY FOR: PORT OF TACOMA", COMPLETED BY SITTS & HILL ENGINEERING & SURVEYING, INC., 4815 CENTER ST, TACOMA WA 98409 DATED APRIL 4, 2024.
2. COORDINATES ARE REFERENCED TO WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.
3. ELEVATIONS SHOWN ARE REFERENCED TO MLLW.
4. SURVEY BENCHMARKS:
HORIZONTAL DATUM
P.O.T. MONUMENT #178
DESCRIPTION: LEAD AND TACK FOUND IN THE NORTHEAST GUTTER OF TAYLOR WAY.
PUBLISHED COORDINATES
N:709882.76
E:1175405.11

- P.O.T. MONUMENT #“DD”
DESCRIPTION: 3” SURFACE BRASS MONUMENT WITH PUNCH AND “TACOMA PUBLIC WORKS” FOUND IN CENTERLINE OF LINCOLN AVE, APPROX. 260’ SOUTHWEST OF CENTERLINE INTERSECTION WITH TAYLOR WAY.
PUBLISHED COORDINATES
N:712137.47
E:1172517.33

VERTICAL DATUM

- MLLW (PER PORT OF TACOMA SURVEY CONTROL MAP, DATED 2016)
P.O.T. MONUMENT #178
DESCRIPTION: LEAD AND TACK FOUND IN THE NORTHEAST GUTTER OF TAYLOR WAY.
PUBLISHED COORDINATES
N:709882.76
E:1175405.11
MLLW ELEV.: 15.73
TO CONVERT TO NGVD29 VALUES, REDUCE ALL ELEVATIONS BY 5.96 FEET (–5.96)
TO CONVERT TO NAVD88 VALUES, REDUCE ALL ELEVATIONS BY 2.46 FEET (–2.46)

5. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL BENCH MARKS, PROPERTY LINE REFERENCES (E.G., PINS, PIPES, MONUMENTS), REFERENCE POINTS, STAKES AND ANY OTHER SURVEY REFERENCE.
6. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY SURVEY MONUMENTS NOTED OR ENCOUNTERED IN THE FIELD. ANY DISTURBANCE SHALL BE REPAIRED BY CONTRACTOR AT NO EXPENSE TO THE OWNER OR ENGINEER. STANDARDS OF PRACTICE REQUIRE THAT "THE HORIZONTAL POSITION OF PHYSICAL FEATURES MUST BE PLOTTED TO 1/20TH INCH OF FINAL MAP SCALE". DIMENSIONS "SNAPPED" FROM THE ELECTRONIC VERSION OF THIS MAP SHOULD BE CONSIDERED TO BE NO MORE ACCURATE THAN 1/20TH OF THE MAP SCALE NOTED. CRITICAL CLEARANCE DIMENSIONS MUST BE FIELD CHECKED.

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) NOTES

SEE SHEET D1.0

ACRONYM LIST

- TESC Temporary Erosion and Sedimentation Control
- CESCL Certified Erosion and Sediment Control Lead
- CPESC Certified Professional in Erosion and Sediment Control
- ESC Erosion and Sediment Control
- CPP Corrugated Polyethylene Pipe
- TV Temporary Vault
- IAWP Interim Action Work Plan
- SWPPP Stormwater Pollution and Prevention Plan
- WSDOT Washington State Department of Transportation
- TPN Tax Parcel Number
- BPM Best Management Practice
- TP Turning Point
- TD Total Depth
- N Blow Count
- bgs Below Ground Surface
- HASP Health and Safety Plan
- PVC Polyvinyl Chloride
- SDS Safety Data Sheet

LEGEND

- ⊗ FOUND MONUMENT/ REBAR AS NOTED

× × SURVEY CONTROL POINT

⊗ SANITARY SEWER MANHOLE

○ UTILITY CLEAN OUT

⊗ STORM MANHOLE

▤ STORM CATCH BASIN

⤿ STORM CULVERT

⊗ WATER MANHOLE

× WATER VALVE

⊗ WATER METER

⊗ FIRE HYDRANT

× IR IRRIGATION CONTROL VALVE

⊗ GAS VALVE

⊗ GAS RISER

⊗ POWER METER

⊗ POWER CABINET

⊗ UTILITY POLE

⊗ UTILITY POLE WITH DROP(S)

⊗ GUY ANCHOR

⊗ JUNCTION BOX

⊗ POWER VAULT

⊗ LIGHT POLE

⊗ TELECOM RISER

⊗ TELECOM VAULT

⊗ TELECOM JUNCTION BOX

⊗ UTILITY VAULT

⊗ UTILITY MANHOLE

⊗ UNKNOWN STAND PIPE

⊗ UNKNOWN VALVE

⊗ UNKNOWN RISER

● COLUMN

● BOLLARD

⊗ SIGN

⊗ MAILBOX

⊗ ECOLOGY BLOCK

⊗ RAILROAD SWITCH

⊗ MONITORING WELL

● PILE

⊗ WETLAND FLAG

TPN TAX PARCEL NUMBER

→ XXN.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE

⊗ SCHED. B EXCEPTION NUMBER

———— PARCEL LINE

———— ROAD CENTERLINE

— · — · — · — · — RIGHT OF WAY LINE

----- EASEMENT LINE

——SD—— STORM DRAIN LINE

——SD—R—— RECORD STORM LINE

——SS——SS—— SANITARY SEWER LINE

——SS—R—— RECORD SANITARY LINE

——W——W—— BURIED WATER LINE

——W—R——W—R—— RECORD WATER LINE

——BURIED GAS LINE

——NGAS—R—— RECORD GAS LINE

-----BP----- BURIED POWER LINE

——BP—R—— RECORD BURIED POWER

——AP——AP—— OVERHEAD POWER LINE

——BT-----BT—— BURIED TELECOM LINE

——BT—R—— RECORD TELECOM LINE

——CHAIN LINK FENCE

++++ RAILROAD TRACKS

—— WETLAND DELINEATION

||||| 2004 POND MAPPING LIMITS

~~~~~ SHEARWALL/SHEET PILE WALL PER 2004 MAPPING

● DIRECT PUSH BORING LOCATION

⊗ HOLLOW-STEM AUGER BORING LOCATION

⊗ TURNING POINT LOCATION

—— CONTAINMENT WALL ALIGNMENT

0+00— CONTAINMENT WALL ALIGNMENT STATIONING

—— PARCEL BOUNDARY

~~~~~ EXISTING SHEET PILE WALL

—— EXISTING FENCE

——10—— MAJOR ELEVATION CONTOUR (5’ INTERVAL)

——+—— MINOR ELEVATION CONTOUR (1’ INTERVAL)

—— PROPOSED CONTOUR

→ SLOPE

□ SAMPLE INTERVAL AND DEPTH

—— APPROXIMATE BOTTOM OF CONTAINMENT WALL

⊗ BORING LOCATION

ASPHALT SURFACE

CONCRETE SURFACE

GRAVEL SURFACE

RIP—RAP SURFACE

WETLAND AREA

EASEMENT

TEMPORARY PVC LINER

5/8-MINUS CRUSHED ROCK

GRASS

TO BE DEMOLISHED

CONTAINMENT WALL PROFILES LEGEND

UPPER AQUIFER

FIRST AQUITARD

INTERMEDIATE AQUIFER

SECOND AQUITARD

DEEP AQUIFER

6697

G1.1

SH #2 OF #44

CONTR/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID

ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL

GENERAL NOTES, LEGEND, AND ABBREVIATIONS

TOWNSHIP: ZIN RANGE: 3E SECTION: 36
DATE-HRZ: WA83/2011 VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053 DRAWING SCALE: AS NOTED

APPROVED:

R. WEBB 07/29/26

CHECKED BY DATE
T.LOUVERE 07/29/26

DIRECTOR ENGR. DATE
PRINTED BY: Kbeqley Jul 29, 2026
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

DOF

DALTON OLMSTED FUGLEVAND

MADE IN WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
NO. 37574

Port of Tacoma

P.O. BOX 1837 TACOMA, WA 98401 (206) 385-5841

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

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

PORT OF TACOMA FILE: N:20300/20347DrawingsDrawings - PHASE 1101585-SV1.X

BINDING EDGE

TOPOGRAPHIC SURVEY

SCALE: 1" = 150'

- LEGEND**
- FOUND MONUMENT/ REBAR AS NOTED
 - × SURVEY CONTROL POINT
 - PARCEL LINE
 - - - ROAD CENTERLINE
 - - - RIGHT OF WAY LINE
 - - - EASEMENT LINE

MONUMENT #180
FOUND 3" BRASS DISC IN CASE WITH
PUNCH, DOWN 0.4'±
(12/14/2023)
MEASURED COORDINATES:
N: 712318.82
E: 1172704.19
MLLW ELEV: 16.76
PUBLISHED COORDINATES:
N: 712318.80
E: 1172704.21
MLLW ELEV: 17.23

REPLACED SINCE 2016 P.O.T. MONUMENT CONTROL MAP.
PREVIOUS DESCRIPTION: 3"BRASS SURFACE MONUMENT WITH "X"

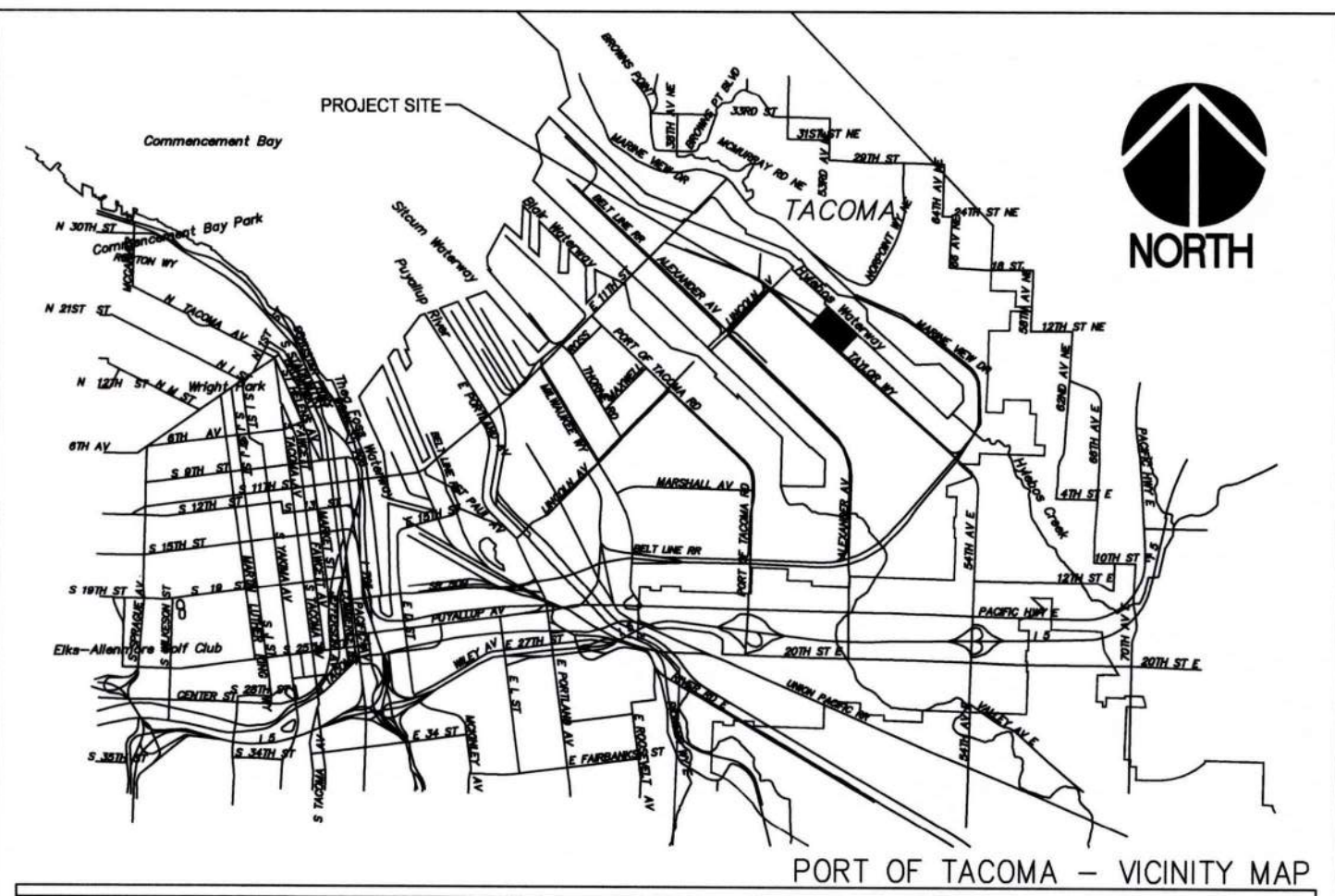
MONUMENT #DD
FOUND 3" BRASS SURFACE DISC WITH
PUNCH AND "TACOMA PUBLIC WORKS"
(12/14/2023)
MEASURED COORDINATES:
N: 712137.52
E: 1172517.30
PUBLISHED COORDINATES:
N: 712137.47
E: 1172517.33

LEGAL DESCRIPTION

(PER SPECIAL WARRANTY DEED UNDER A.F.N. 200705310863)

BEGINNING AT A POINT WHERE THE NORTHERLY RIGHT OF WAY LINE OF TAYLOR WAY EXTENSION INTERSECTS THE EAST LINE OF THE WEST 800 FEET OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 36, TOWNSHIP 21 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN; THENCE NORTHWESTERLY ALONG SAID NORTHERLY RIGHT OF WAY LINE OF TAYLOR WAY EXTENSION TO INTERSECT THE WEST LINE OF SAID NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 36;
THENCE NORTH ALONG SAID WEST LINE TO THE NORTH LINE OF SAID SOUTHWEST QUARTER OF SECTION 36;
THENCE WEST ALONG SAID NORTH LINE OF THE SOUTHWEST QUARTER OF SECTION 36 TO THE SOUTHWEST CORNER OF THE EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 36;
THENCE NORTH ALONG THE WEST LINE OF SAID EAST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER TO INTERSECT THE NORTHERLY RIGHT OF WAY LINE OF TAYLOR WAY;
THENCE NORTHWESTERLY ALONG THE AFORESAID NORTHERLY RIGHT OF WAY LINE OF TAYLOR WAY TO THE MOST SOUTHERLY CORNER OF THAT CERTAIN TRACT OF LAND LOCATED IN THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 35, TOWNSHIP 21 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN CONVEYED TO AMERICAN ROCK WOOL CORP., AN INDIANA CORPORATION, BY DEED RECORDED JANUARY 27, 1956 UNDER PIERCE COUNTY AUDITOR'S FEE NUMBER 1745522;
THENCE NORTH 41°45'14" EAST ALONG THE EASTERLY LINE OF SAID AMERICAN ROCK WOOL TRACT, 908.23 FEET TO THE SOUTHWESTERLY LINE OF THE HYLEBOS CREEK WATERWAY;
THENCE SOUTH 48°14'46" EAST ALONG THE SOUTHWESTERLY LINE OF SAID WATERWAY TO INTERSECT THE EAST LINE OF THE WEST 800 FEET OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SAID SECTION 36;
THENCE SOUTH ALONG SAID EAST LINE AND THE EAST LINE OF THE WEST 800 FEET OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 36 TO THE POINT OF BEGINNING.

EXCEPT ANY PORTION THEREOF LYING WITHIN TAYLOR WAY AND TAYLOR WAY EXTENSION.



PORT OF TACOMA - VICINITY MAP

TPN 032135-1006
PORT OF TACOMA

POND
2004 MAPPING
DATA

FOUND 5/8" REBAR WITH
CAP "LS 18902 PAC-TECH"
LIES 0.1' SOUTH AND 0.3' EAST
OF CALC. CORNER
(01/04/2024)
N: 711378.60
E: 1173821.51

EASEMENT FOR ANCHOR AND
GUY LINES, PER AFN 1936308

TPN 032135-1053
PORT OF TACOMA

TPN 032135-1053
PORT OF TACOMA

TPN 032136-3021
PETROLEUM RECLAIMING SVCS INC

TPN 032136-3028
PETROLEUM RECLAIMING SVCS INC

NOTES

- EQUIPMENT USED: CARLSON CR2+ ROBOTIC TOTAL STATION AND JAVAD TRIUMPH-3N RTK/GPS.
- THIS SURVEY WAS PERFORMED BY FIELD TRAVERSE WITH THE FINAL RESULTS MEETING EXCEEDING THE CURRENT TRAVERSE AND RELATIVE POSITIONAL ACCURACY STANDARDS CONTAINED IN W.A.C. 332-130-090. THE RELATIVE POSITIONAL ACCURACY OF THE POSITIONS LOCATED HEREON MEETS OR EXCEEDS 2 CM (0.07 FT.) PLUS 50 PARTS PER MILLION BETWEEN ANY TWO TESTED POSITIONS. ALL MEASUREMENTS WERE MADE 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.
- INITIAL FIELD WORK PERFORMED IN DECEMBER 2023 THROUGH MARCH 2024, ADDITION/ WORK PERFORMED IN MARCH 2026 NOTED HEREON WITH A Δ, UNDER SITTS & HILL PROJECT NUMBER 20347.
- UTILITIES AS SHOWN HEREON ARE BASED ON FIELD SURVEY OBSERVATION OF UTILITY LOCATE SERVICES PERFORMED BY MOUNTAIN VIEW LOCATING SERVICES, LLC. JANUARY 2024 FOR THIS SURVEY, AND ARE DESIGNATED AS UTILITY QUALITY LEVEL 'E' ACCORDING TO ASCE STANDARD GUIDELINES 38-22. THIS HAS BEEN SUPPLEMENTED BY PUBLIC RECORDS INFORMATION PROVIDED BY CITY OF TACOMA DART GIS AND BY RECI LINES FROM SITTS AND HILL PROJECT NUMBER 17695 COMPLETED IN MARCH AND APR OF 2018. RECORD UTILITY LINES SHOWN HEREON ARE DEPICTED WITH THE STANDARD LINE TYPE WITH A " - R " AS SHOWN IN THE LEGEND, AND ARE DESIGNATED AS QUALITY LEVEL 'C' ACCORDING TO ASCE STANDARD GUIDELINES 38-22. UTILITIES OTHER THAN SHOWN MAY EXIST ON THE SITE. THE SURVEYOR DOES WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEY DOES CERTIFY THAT THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM FIELD SURVEY AND PAINTED UTILITY LOCATE LINES.
- 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. THIS TOPOGRAPHIC SURVEY MAP HAS BEEN DEVELOPED FROM A BODY OF FIELD COLLECTED DATA POINTS AND RECORD INFORMATION, AS NOTED IN ALL UNDERLYING DATA POINTS EXISTING WITHIN THE CAD BASE DRAWING (AUTODESK CIVIL 3D FILE) ARE DEPICTED ON THE PDF DELIVERABLE. SEE THE DIGITAL CAD FILE 1 ALL FIELD COLLECTED DATA, AND CONTACT SITTS & HILL ENGINEERS IF THERE ARE ISSUES WITH MAKING THIS DATA VISIBLE.
- WETLANDS FLAGS WERE LOCATED BY SITTS AND HILL AS DELINEATED BY GRETTIE ASSOCIATES IN THE FIELD ON 01/19/2024. THESE AREAS ARE SHOWN WITH SPECIFIC HATCHING AND SYMBOLS AS IDENTIFIED IN THE LEGEND.
- MUCH OF THE SITE WAS UNDER STANDING WATER OR ICE AT THE TIME OF SURVEY. THESE AREAS ARE SHOWN WITH SPECIFIC HATCHING AS IDENTIFIED IN THE LEGEND. FEATURES AND EDGES OF IMPERVIOUS SURFACES WERE LOCATED WHERE OBSERVABLE, HOWEVER ADDITIONAL IMPROVEMENTS AND IMPERVIOUS SURFACES MAY EXIST IN THESE AREAS.
- EDGES OF IMPERVIOUS SURFACES ON SITE REFLECT WHAT WAS OBSERVABLE AND EXPOSED AT THE TIME OF SURVEY. TRUE EDGES MAY BE BURIED UNDER SOIL AND DEBRIS.
- DATA FROM SITTS & HILL PROJECT NUMBER 10992, COMPLETED IN 2004 WAS USED TO SUPPLEMENT THIS SURVEY. SPECIFICALLY THE APPROXIMATE LOCATION OF THE SHEARWALL (SHEET PILE WALL) LOCATED AT THE SOUTHERLY END OF THE SITE NEAR HYLEBOS WATERWAY WAS EXTRACTED FROM THE 2004 SURVEY AND IS SHOWN HEREON AND NOTED AS SUCH. ALSO, POINT DATA OF GRADE ELEVATIONS WITHIN THE LIMITS OF THE TWO PONDS AT THE NORTHERLY PORTION OF THE SITE WERE INPUT TO PRODUCE MORE CONSISTENT CONTOURS. THE LIMITS OF THIS DATA FROM THE 2004 REPORT IS

SCHEDULE B EXCEPTIONS

PER CHICAGO TITLE INSURANCE COMPANY OF WASHINGTON, COMMITMENT NUMBER 240758-TC, DATED 03/13/2024

- * NOT A SURVEY MATTER, DESCRIPTION PROVIDED AS A COURTESY
- ** CONTENT/DATA WITHIN INSTRUMENT IS INSUFFICIENT TO DETERMINE EXACT LOCATION
- *** INSTRUMENT IS BLANKET IN NATURE OR AFFECTS ENTIRE PROPERTY
- DNA DOES NOT AFFECT THE MAPPING LIMITS OF THE SUBJECT PROPERTY

| EXCEPTION NUMBER | AFN | DESCRIPTION |
|------------------|--------------|---|
| 1*** | 200903105001 | COVENANTS, CONDITIONS, RESTRICTIONS, ETC. CONTAINED WITHIN RECORD OF SURVEY; SURVEY SUPERCEDES AFN 200901265003; SURVEY CONTAINS REFERENCES TO SEVERAL EASEMENTS AFFECTING THE SUBJECT PARCEL, INCLUDING NO. 25 AND NO. 28, WHICH AFFECT THE MAPPING AREA (SEE BELOW) |
| 5 | | PENDING RESPONSE FROM TITLE COMPANY |
| 6 | | PENDING RESPONSE FROM TITLE COMPANY |
| 8*** | 8707280239 | COVENANTS, CONDITIONS, RESTRICTIONS, ETC. CONTAINED WITHIN RECORD OF SURVEY; SURVEY DEPICTS TWO EASEMENTS NOTED WITHIN THIS TITLE COMMITMENT; SEE SCHEDULE 'B' EXCEPTIONS 24, AND 25 NOTED HEREON. |
| 9*** | 9604170418 | COVENANTS, CONDITIONS, RESTRICTIONS, ETC. CONTAINED WITHIN RECORD OF SURVEY; |
| 15 | | PENDING RESPONSE FROM TITLE COMPANY ON NO. 5 AND NO. 6 |
| 16*** | 9909145004 | RIGHTS, INTERESTS, CLAIMS, ETC. CONTAINED WITHIN RECORD OF SURVEY; |
| 17*** | 20021215004 | RIGHTS, INTERESTS, CLAIMS, ETC. CONTAINED WITHIN RECORD OF SURVEY; |
| 22** | N/A | NOTE REGARDING EASEMENT IN FAVOR OF PUGET SOUND POWER & LIGHT COMPANY AS DISCLOSED BY THE PIERCE COUNTY ASSESSOR'S MAP; NOTHING SHOWN HEREON. |
| 23** | 1234107 | EASEMENT FOR USES AND ENTRY TO WATERWAYS; GRANTED TO: UNITED STATES OF AMERICA; 06/15/1938; EASEMENT DESCRIPTION IS SEMI-LEGIBLE; IT APPEARS TO DESCRIBE THE AFFECTED AREA AS BEING NORTH AND EAST OF THE HYLEBOS WATERWAY, IN WHICH CASE IT WOULD NOT AFFECT THE SUBJECT PARCEL OR MAPPING AREA |
| 24 | 1460103 | EASEMENT FOR ANCHORS AND GUY LINES; THREE AREAS ARE DESCRIBED; ONE LIES SOUTH OF TAYLOR WAY AND THE SUBJECT PARCEL 'B' AND IS NOT SHOWN HEREON; THE SECOND LIES SOUTH OF TAYLOR WAY BUT ADJACENT TO THE R-O-W MAPPING LIMITS OF THIS PROJECT, AND IS SHOWN HEREON; THE THIRD LIES WITHIN THE SUBJECT PARCEL 'B', BUT OUTSIDE THE MAPPING LIMITS AND IS NOT SHOWN HEREON |
| 25 | 1735413 | DEED; GRANTOR: OHIO FERRO-ALLOYS CORPORATION; GRANTEE: MILWAUKEE BOOM COMPANY; CONTAINS REFERENCE TO EASEMENT AFN 1460103 (SCHEDULE 'B' ITEM NO. 24) AS WELL AS AN EASEMENT FOR SEWER LINE AND APPURTENANCES; SEWER EASEMENT AFFECTS SUBJECT PARCEL 'B', AND LIES ADJACENT TO THE MAPPING LIMITS; SHOWN HEREON. |
| 28 | 1936308 | EASEMENT FOR ANCHOR AND GUY WIRES; GRANTOR: PENNSALT CHEMICALS CORPORATION; GRANTEE: CITY OF TACOMA; 09/06/1961; AFFECTS SUBJECT PARCEL 'B' AND LIES WITHIN THE MAPPING LIMITS; SHOWN HEREON. |
| 30*** | 8707230359 | NOTICE OF CONSENT DECREE ENTERED IN CAUSE NUMBER 87-2-01198-1 BETWEEN THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY AND PENNWALT CORPORATION; 07/23/1987; THE AREA DESCRIBED IN THE INSTRUMENT INCLUDES THE EAST 800 FEET OF SUBJECT PARCEL 'B', AND LIES ADJACENT TO THE EASTERLY EXTENTS OF THE MAPPING LIMITS. |
| 31*** | 8707230360 | NOTICE OF CONSENT DECREE ENTERED IN CAUSE NUMBER 87-2-01199-0 BETWEEN THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY AND PENNWALT CORPORATION; 07/23/1987; ALL BUT THE EASTERLY 800 FEET OF SUBJECT PARCEL 'B', AND THE ENTIRETY OF THE MAPPING LIMITS LIE WITHIN THE SUBJECT AREA DESCRIBED WITHIN THE INSTRUMENT; |
| 32 | 8708170385 | EASEMENT FOR ANCHORS AND GUY WIRES; INCLUDES DESCRIPTION OF EASEMENTS FOR POWER LINES; GRANTOR: PENNWALT CORPORATION; GRANTEE: CITY OF TACOMA; JULY 16, 1987; EASEMENT AREAS DO NOT LIE WITHIN THE SUBJECT PARCEL 'B', BUT ACROSS TAYLOR WAY, ADJACENT TO THE SOUTHERLY EXTENTS OF THE ROW MAPPING LIMITS. |
| 34*** | 200205291520 | NOTICE REGARDING SEDIMENT REMEDIATION; SITE ADDRESS: 2901 TAYLOR WAY; NOTHING SHOWN HEREON |
| 37*** | 201608240220 | COVENANTS, CONDITIONS, RESTRICTIONS, ETC. FOR ENVIRONMENTAL COVENANT (SUPERSEDING AFN 9302020332); LEGAL DESCRIPTION DESCRIBES ALL OF SUBJECT PARCEL 'B'; NOTHING SHOWN HEREON |
| 41** | 1440041 | NOTE REGARDING EXCEPTIONS AND RESERVATIONS, CONTAINED IN DEED; ALSO MODIFIED AFN 1869995; DEED AFN 1440041 IS PARTIALLY ILLEGIBLE, MAY DESCRIBE PORTIONS OF OR NEAR THE SUBJECT PARCEL 'B' AND/OR MAPPING LIMITS. |
| 50*** | 200205291519 | NOTICE REGARDING SEDIMENT REMEDIATION; SITE ADDRESS: 3009 TAYLOR WAY; NOTHING SHOWN HEREON |

HORIZONTAL DATUM

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

P.O.T. MONUMENT #178
DESCRIPTION: LEAD AND TACK FOUND IN THE NORTHEAST GUTTER OF TAYLOR WAY.
PUBLISHED COORDINATES
N: 709882.76
E: 1175405.11

P.O.T. MONUMENT #DD
DESCRIPTION: 3" SURFACE BRASS MONUMENT WITH PUNCH AND "TACOMA PUBLIC WORKS" FOUND IN CENTERLINE OF LINCOLN AVE, APPROX. 260' SOUTHWEST OF CENTERLINE INTERSECTION WITH TAYLOR WAY.
PUBLISHED COORDINATES
N: 712137.47
E: 1172517.33

VERTICAL DATUM

MLLW (PER PORT OF TACOMA SURVEY CONTROL MAP, DATED 2016)

P.O.T. MONUMENT #178
DESCRIPTION: LEAD AND TACK FOUND IN THE NORTHEAST GUTTER OF TAYLOR WAY.
PUBLISHED COORDINATES
N: 709882.76
E: 1175405.11
MLLW ELEV: 15.73

TO CONVERT TO NGVD29 VALUES, REDUCE ALL ELEVATIONS BY 5.96 FEET (-5.96)

TO CONVERT TO NAVD88 VALUES, REDUCE ALL ELEVATIONS BY 2.46 FEET (-2.46)

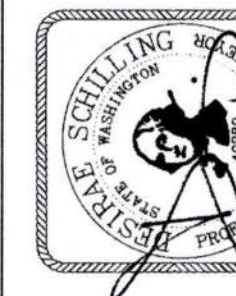
SITE DATA

TAX PARCEL NO. 0321351053
ADDRESS: 2901 TAYLOR WAY



KEY PLAN

SCALE: NTS

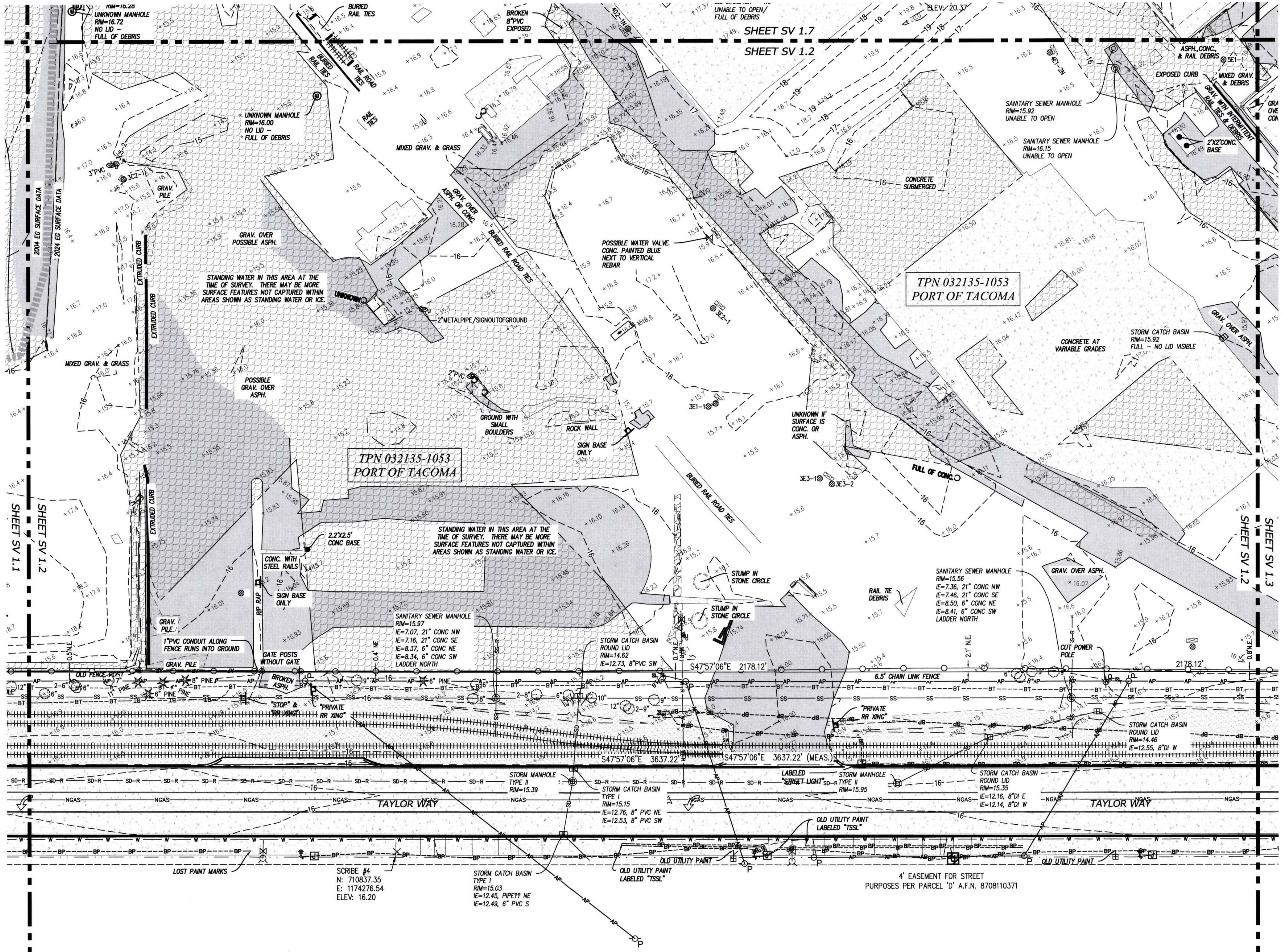


APPROVED: DS 05/12/26
CHECKED BY: DATE
DIRECTOR: Sitts & Hill
DATE: 05/12/26
PRINTED BY: KreischerK Jul 30, 2026
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837

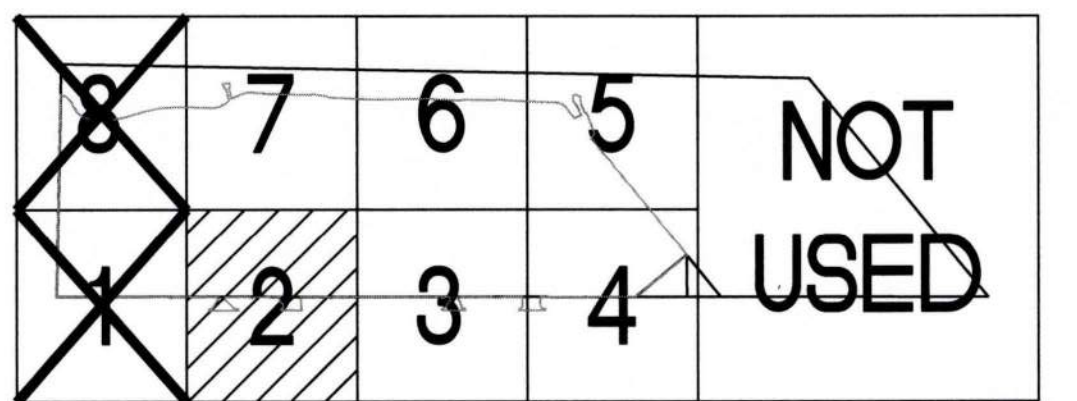
ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
TOPOGRAPHIC SURVEY

6697
SV1.0
SH #3 OF 44
CONTR/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID

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- LEGEND**
- FOUND MONUMENT/ REBAR AS NOTED
 - × SURVEY CONTROL POINT
 - ⊙ SANITARY SEWER MANHOLE
 - UTILITY CLEAN OUT
 - ⊕ STORM MANHOLE
 - ⊞ STORM CATCH BASIN
 - ⊞ STORM CULVERT
 - ⊞ WATER MANHOLE
 - ⊞ WATER VALVE
 - ⊞ WATER METER
 - ⊞ FIRE HYDRANT
 - ⊞ IRRIGATION CONTROL VALVE
 - ⊞ GAS VALVE
 - ⊞ GAS RISER
 - ⊞ POWER METER
 - ⊞ POWER CABINET
 - ⊞ UTILITY POLE
 - ⊞ UTILITY POLE WITH DROP(S)
 - ⊞ GUY ANCHOR
 - ⊞ JUNCTION BOX
 - ⊞ POWER VAULT
 - ⊞ LIGHT POLE
 - ⊞ TELECOM RISER
 - ⊞ TELECOM VAULT
 - ⊞ TELECOM JUNCTION BOX
 - ⊞ UTILITY VAULT
 - ⊞ UTILITY MANHOLE
 - ⊞ UNKNOWN STAND PIPE
 - ⊞ UNKNOWN VALVE
 - ⊞ UNKNOWN RISER
 - ⊞ COLUMN
 - ⊞ BOLLARD
 - ⊞ SIGN
 - ⊞ MAILBOX
 - ⊞ ECOLOGY BLOCK
 - ⊞ RAILROAD SWITCH
 - ⊞ MONITORING WELL
 - ⊞ PILE
 - ⊞ WETLAND FLAG
 - ⊞ TPN
 - DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
 - ⊞ SCHED. B EXCEPTION NUMBER
- PARCEL LINE
 - ROAD CENTERLINE
 - RIGHT OF WAY LINE
 - EASEMENT LINE
 - SD --- STORM DRAIN LINE
 - SD-R --- RECORD STORM LINE
 - SS --- SANITARY SEWER LINE
 - SS-R --- RECORD SANITARY LINE
 - W --- BURIED WATER LINE
 - W-R --- RECORD WATER LINE
 - NGAS --- BURIED GAS LINE
 - NGAS-R --- RECORD GAS LINE
 - BP --- BURIED POWER LINE
 - BP-R --- RECORD BURIED POWER
 - AP --- OVERHEAD POWER LINE
 - BT --- BURIED TELECOM LINE
 - BT-R --- RECORD TELECOM LINE
 - CHAIN LINK FENCE
 - RAILROAD TRACKS
 - WETLAND DELINEATION
- ASPHALT SURFACE
 - CONCRETE SURFACE
 - GRAVEL SURFACE
 - RIP-RAP SURFACE
 - AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
 - WETLAND AREA



TOPOGRAPHIC SURVEY - AREA 2
SCALE: 1" = 30'

KEY PLAN
SCALE: NTS



Port of Tacoma
P.O. BOX 4807 TACOMA, WA 98401-4807 (206)385-5641

sitts & hill
CIVIL / STRUCTURAL / ARCHITECTURAL / SURVEY
480 CENTER STREET TACOMA, WA 98401
PHONE: (206) 385-1111 FAX: (206) 385-1112
WWW.SITTSANDHILL.COM

SCHEIDT & BATES
REGISTERED PROFESSIONAL ENGINEER
No. 10730
STATE OF WASHINGTON

| | | | | |
|----------------|----|------------------------|-------------------|------|
| APPROVED: | DS | 05/12/26 | CHECKED BY: | DATE |
| | DS | 05/12/26 | PROJECT ENG. DATE | DATE |
| DIRECTOR | | MICHAEL HOWARD | | |
| PRINTED BY: | | Kreischer Jul 30, 2026 | | |
| PORT ADDRESS: | | ONE SITCUM PLAZA | | |
| TACOMA, WA | | 98401-1837 | | |
| DRAWING SCALE: | | AS NOTED | | |

6697

SV1.2

SH # 4 OF 44

CONTRACT/CONS: PA000000403

TOWNSHIP: 21 NORTH

RANGE: 3 EAST

SECTION: 36

M. ID: 101585.01

DAT-HRZ: WA83/2011

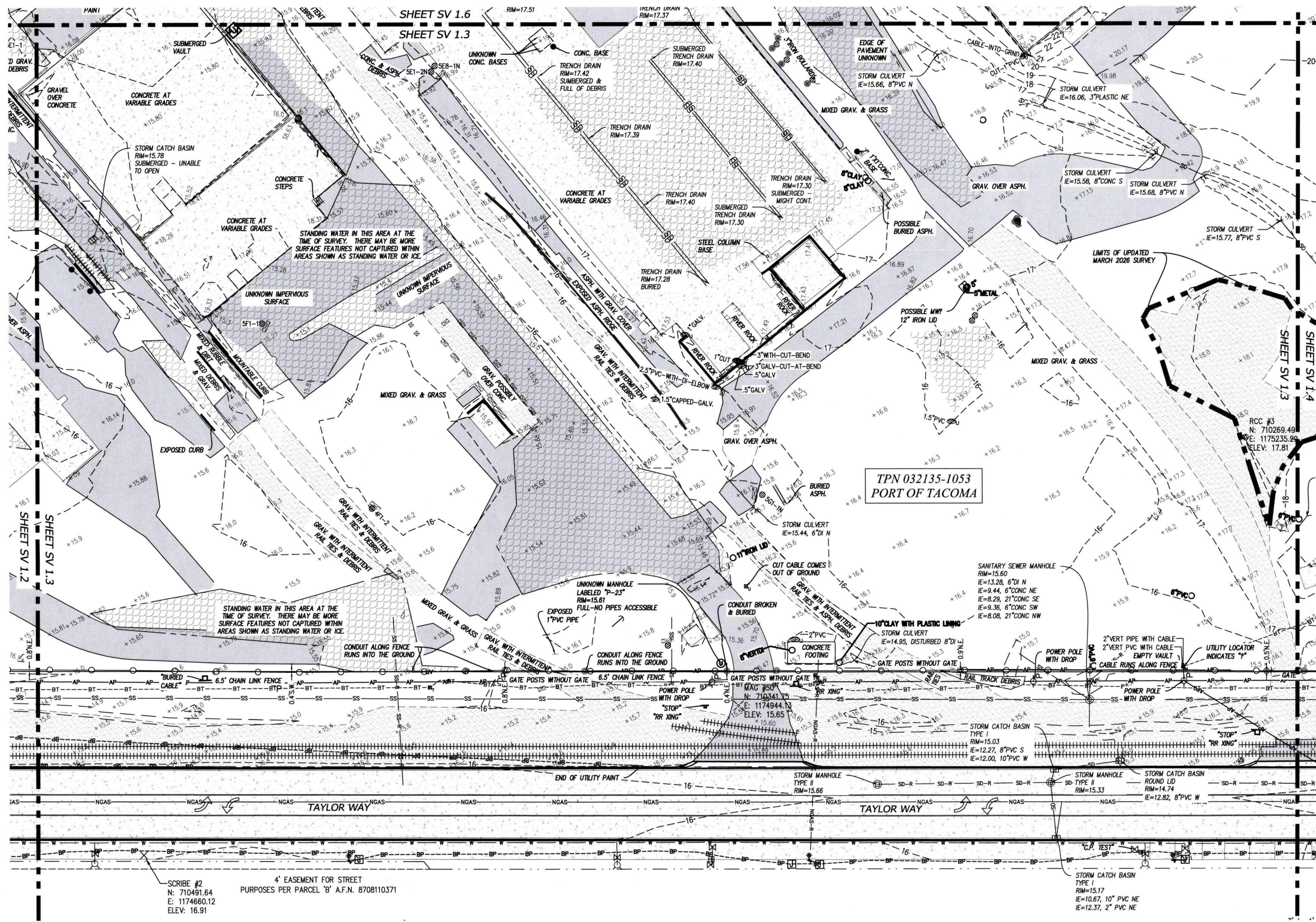
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PARCEL: 0321351053

PHASE: FOR BID

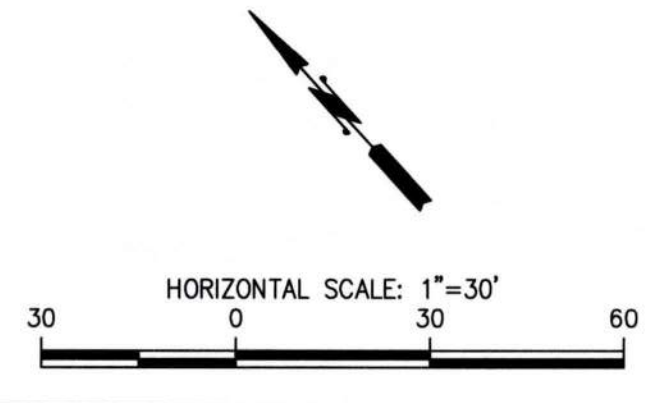
DRAWING SCALE: AS NOTED

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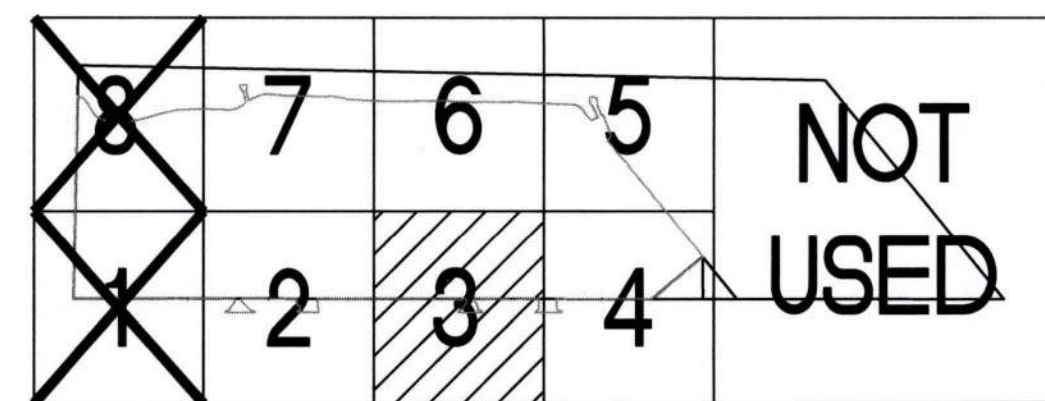
TOPOGRAPHIC SURVEY - AREA 3

SCALE: 1" = 30'



- ### LEGEND

- | | | | |
|--|---|--|------------------------|
| | FOUND MONUMENT/ REBAR AS NOTED | | PARCEL LINE |
| | SURVEY CONTROL POINT | | ROAD CENTERLINE |
| | SANITARY SEWER MANHOLE | | RIGHT OF WAY LINE |
| | UTILITY CLEAN OUT | | EASEMENT LINE |
| | STORM MANHOLE | | STORM DRAIN LINE |
| | STORM CATCH BASIN | | RECORD STORM LINE |
| | STORM CULVERT | | SANITARY SEWER LINE |
| | WATER MANHOLE | | RECORD SANITARY LINE |
| | WATER VALVE | | BURIED WATER LINE |
| | WATER METER | | RECORD WATER LINE |
| | FIRE HYDRANT | | BURIED GAS LINE |
| | IRRIGATION CONTROL VALVE | | RECORD GAS LINE |
| | GAS VALVE | | BURIED POWER LINE |
| | GAS RISER | | RECORD BURIED POWER |
| | POWER METER | | OVERHEAD POWER LINE |
| | POWER CABINET | | BURIED TELECOM LINE |
| | UTILITY POLE | | RECORD TELECOM LINE |
| | UTILITY POLE WITH DROP(S) | | CHAIN LINK FENCE |
| | GUY ANCHOR | | RAILROAD TRACKS |
| | JUNCTION BOX | | WETLAND DELINEATION |
| | POWER VAULT | | ASPHALT SURFACE |
| | LIGHT POLE | | CONCRETE SURFACE |
| | TELECOM RISER | | GRAVEL SURFACE |
| | TELECOM VAULT | | RIP-RAP SURFACE |
| | TELECOM JUNCTION BOX | | AREA OF STANDING WATER |
| | UTILITY VAULT | | ICE AT TIME OF SURVEY |
| | UTILITY MANHOLE | | WETLAND AREA |
| | UNKNOWN STAND PIPE | | |
| | UNKNOWN VALVE | | |
| | UNKNOWN RISER | | |
| | COLUMN | | |
| | BOLLARD | | |
| | SIGN | | |
| | MAILBOX | | |
| | ECOLOGY BLOCK | | |
| | RAILROAD SWITCH | | |
| | MONITORING WELL | | |
| | PILE | | |
| | WETLAND FLAG | | |
| | TAX PARCEL NUMBER | | |
| | DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE | | |
| | SCHED. B EXCEPTION NUMBER | | |

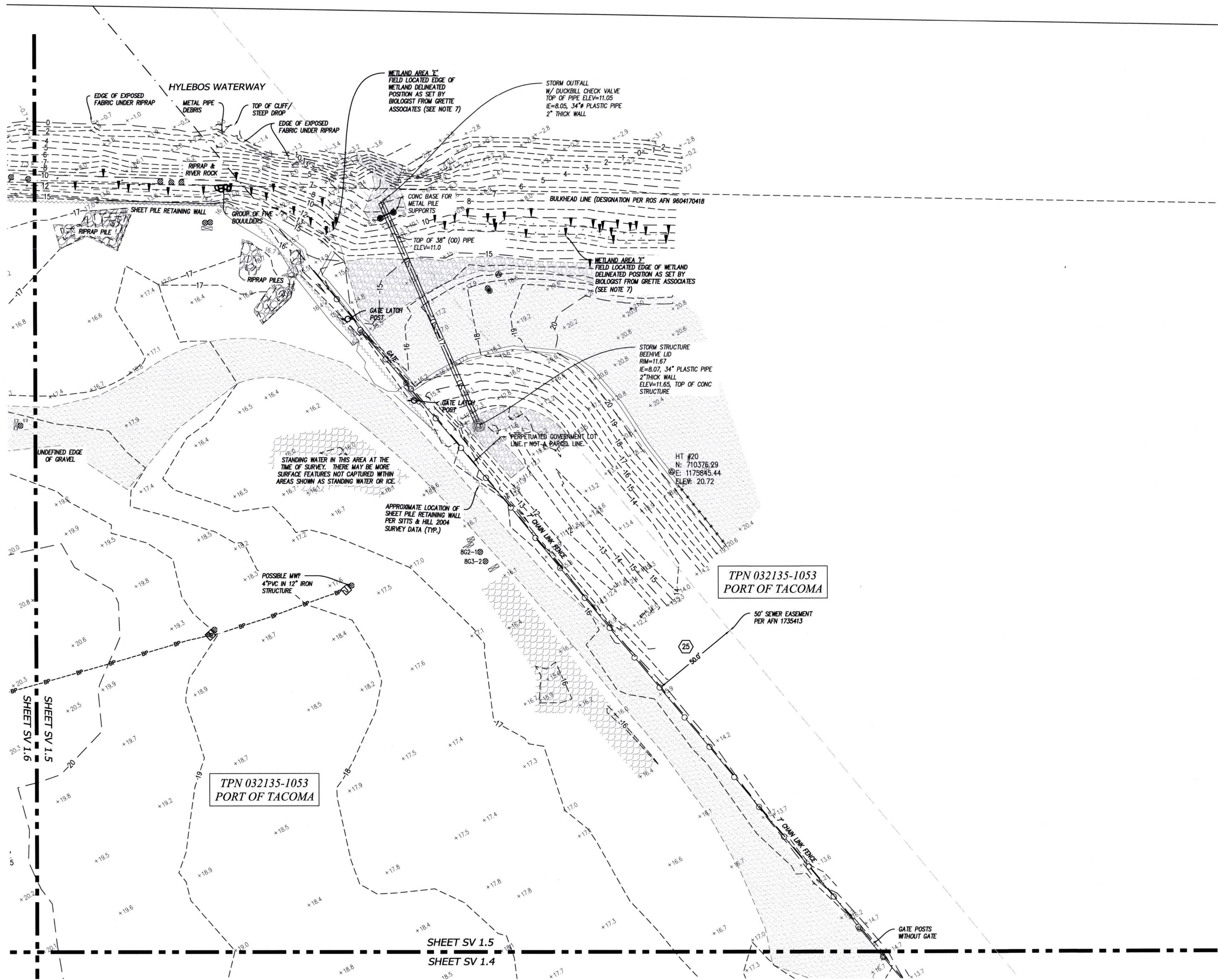


KEY PLAN

SCALE: NTS

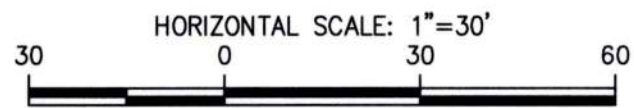


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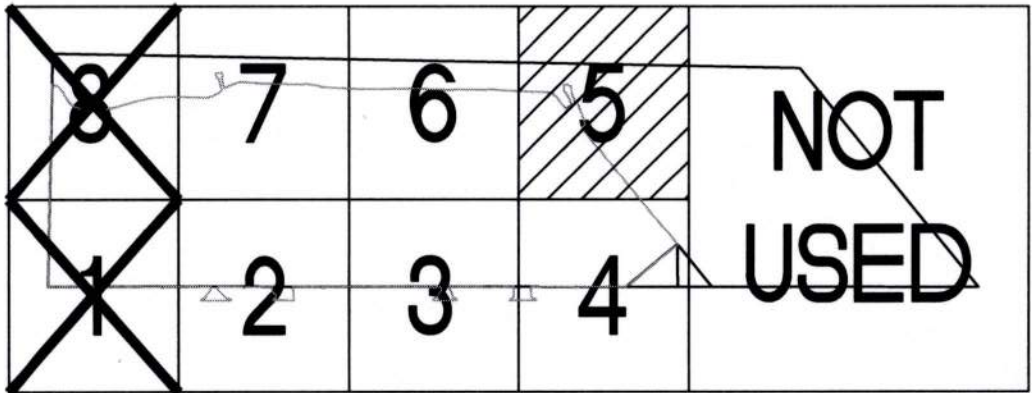
TOPOGRAPHIC SURVEY - AREA 5

SCALE: 1" = 30'



LEGEND

- FOUND MONUMENT/ REBAR AS NOTED
- SURVEY CONTROL POINT
- SANITARY SEWER MANHOLE
- UTILITY CLEAN OUT
- STORM MANHOLE
- STORM CATCH BASIN
- STORM CULVERT
- WATER MANHOLE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION CONTROL VALVE
- GAS VALVE
- GAS RISER
- POWER METER
- POWER CABINET
- UTILITY POLE
- UTILITY POLE WITH DROP(S)
- GUY ANCHOR
- JUNCTION BOX
- POWER VAULT
- LIGHT POLE
- TELECOM RISER
- TELECOM VAULT
- TELECOM JUNCTION BOX
- UTILITY VAULT
- UTILITY MANHOLE
- UNKNOWN STAND PIPE
- UNKNOWN VALVE
- UNKNOWN RISER
- COLUMN
- BOLLARD
- SIGN
- MAILBOX
- ECOLOGY BLOCK
- RAILROAD SWITCH
- MONITORING WELL
- PILE
- WETLAND FLAG
- TPN TAX PARCEL NUMBER
- X.X.N.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
- SCHED. B EXCEPTION NUMBER
- PARCEL LINE
- ROAD CENTERLINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- STORM DRAIN LINE
- RECORD STORM LINE
- SANITARY SEWER LINE
- RECORD SANITARY LINE
- BURIED WATER LINE
- RECORD WATER LINE
- BURIED GAS LINE
- RECORD GAS LINE
- BURIED POWER LINE
- RECORD BURIED POWER
- OVERHEAD POWER LINE
- BURIED TELECOM LINE
- RECORD TELECOM LINE
- CHAIN LINK FENCE
- RAILROAD TRACKS
- WETLAND DELINEATION
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP-RAP SURFACE
- AREA OF STANDING WATER/ ICE AT TIME OF SURVEY
- WETLAND AREA



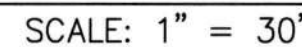
KEY PLAN

SCALE: NTS



| | | | | | | | | | | | | | | | | | | | |
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| 6697 | | | | | | | | | | SV1.5 | | | | | | | | | |
| SH # 7 | | | | | | | | | | OF 44 | | | | | | | | | |
| CONTRACT/CONS: | | | | | | | | | | PA000000403 | | | | | | | | | |
| TOWNSHIP: | | | | | | | | | | 21 NORTH | | | | | | | | | |
| RANGE: | | | | | | | | | | 3 EAST | | | | | | | | | |
| SECTION: | | | | | | | | | | 36 | | | | | | | | | |
| DATE-HRZ: | | | | | | | | | | WA83/2011 | | | | | | | | | |
| VERT: | | | | | | | | | | MLW 15.73' @ POT MON #178 | | | | | | | | | |
| PARCEL: | | | | | | | | | | 0321351053 | | | | | | | | | |
| DRAWING SCALE: | | | | | | | | | | AS NOTED | | | | | | | | | |
| PHASE: | | | | | | | | | | FOR BID | | | | | | | | | |
| APPROVED: | | | | | | | | | | DS | | | | | | | | | |
| CHECKED BY: | | | | | | | | | | DATE | | | | | | | | | |
| DIRECTOR | | | | | | | | | | ENGR | | | | | | | | | |
| DATE | | | | | | | | | | DATE | | | | | | | | | |
| PRINTED BY: | | | | | | | | | | KreischerK Jul 30, 2026 | | | | | | | | | |
| PORT ADDRESS: | | | | | | | | | | ONE SITCUM PLAZA | | | | | | | | | |
| TACOMA, WA | | | | | | | | | | 98401-1837 | | | | | | | | | |

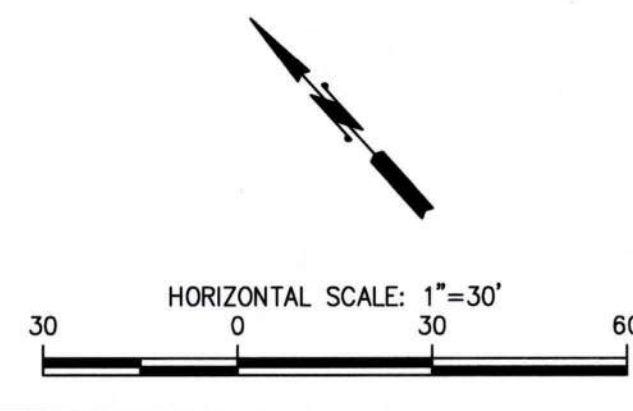
6697
SV1.5
SH # 7 OF 44



HYLEBOS WATERWAY

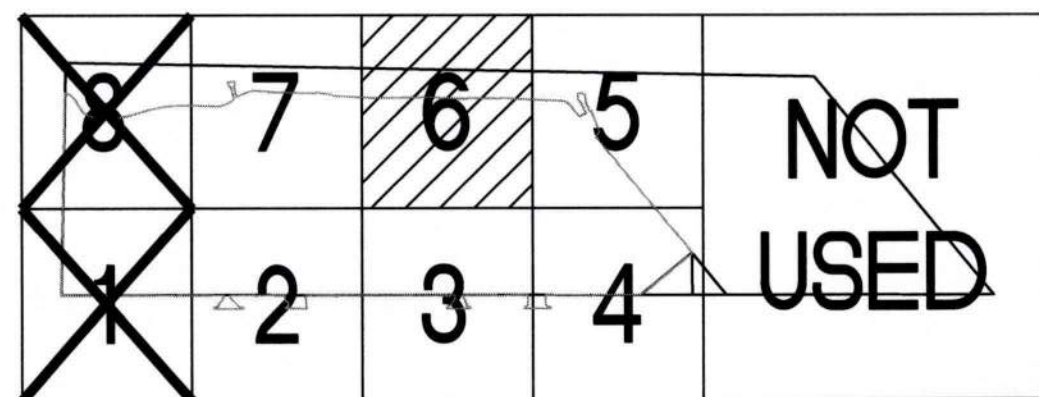
TPN 032135-1053
PORT OF TACOMA

HT #10
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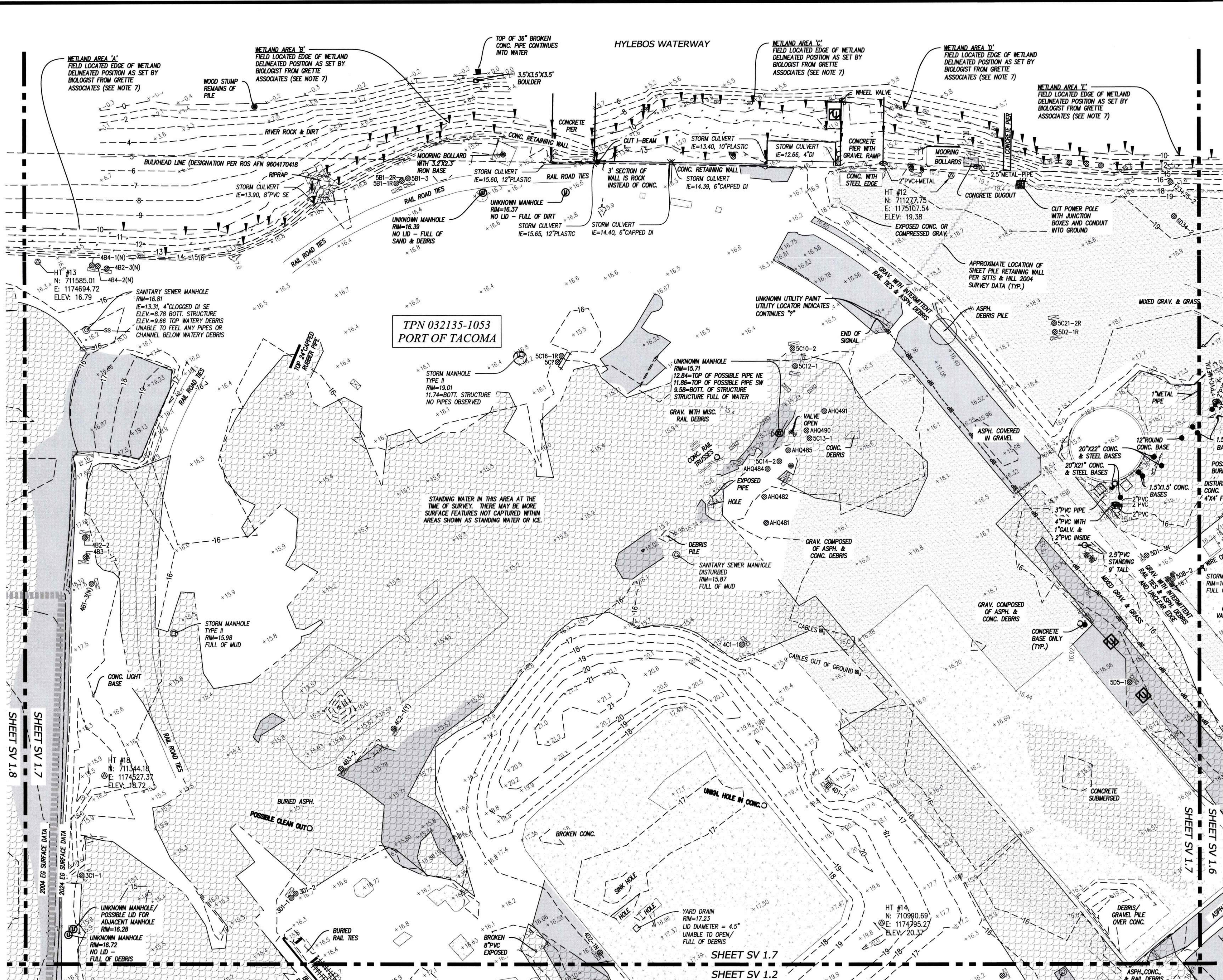
LEGEND

- | | | | |
|--|--|--|--|
| | FOUND MONUMENT/ REBAR AS NOTED | | PARCEL LINE |
| | SURVEY CONTROL POINT | | ROAD CENTERLINE |
| | SANITARY SEWER MANHOLE | | RIGHT OF WAY LINE |
| | UTILITY CLEAN OUT | | EASEMENT LINE |
| | STORM MANHOLE | | STORM DRAIN LINE |
| | STORM CATCH BASIN | | RECORD STORM LINE |
| | STORM CULVERT | | SANITARY SEWER LINE |
| | WATER MANHOLE | | RECORD SANITARY LINE |
| | WATER VALVE | | BURIED WATER LINE |
| | WATER METER | | RECORD WATER LINE |
| | FIRE HYDRANT | | BURIED GAS LINE |
| | IRRIGATION CONTROL VALVE | | RECORD GAS LINE |
| | GAS VALVE | | BURIED POWER LINE |
| | GAS RISER | | RECORD BURIED POWER |
| | POWER METER | | OVERHEAD POWER LINE |
| | POWER CABINET | | BURIED TELECOM LINE |
| | UTILITY POLE | | RECORD TELECOM LINE |
| | UTILITY POLE WITH DROP(S) | | CHAIN LINK FENCE |
| | GUY ANCHOR | | RAILROAD TRACKS |
| | JUNCTION BOX | | WETLAND DELINEATION |
| | POWER VAULT | | ASPHALT SURFACE |
| | LIGHT POLE | | CONCRETE SURFACE |
| | TELECOM RISER | | GRAVEL SURFACE |
| | TELECOM VAULT | | RIP-RAP SURFACE |
| | TELECOM JUNCTION BOX | | AREA OF STANDING WATER/
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| | UTILITY VAULT | | WETLAND AREA |
| | UTILITY MANHOLE | | |
| | UNKNOWN STAND PIPE | | |
| | UNKNOWN VALVE | | |
| | UNKNOWN RISER | | |
| | COLUMN | | |
| | BOLLARD | | |
| | SIGN | | |
| | MAILBOX | | |
| | ECOLOGY BLOCK | | |
| | RAILROAD SWITCH | | |
| | MONITORING WELL | | |
| | PILE | | |
| | WETLAND FLAG | | |
| | TAX PARCEL NUMBER | | |
| | DIRECTION AND DISTANCE OF NOTED
OBJECT FROM PROPERTY LINE | | |
| | SCHED. B EXCEPTION NUMBER | | |



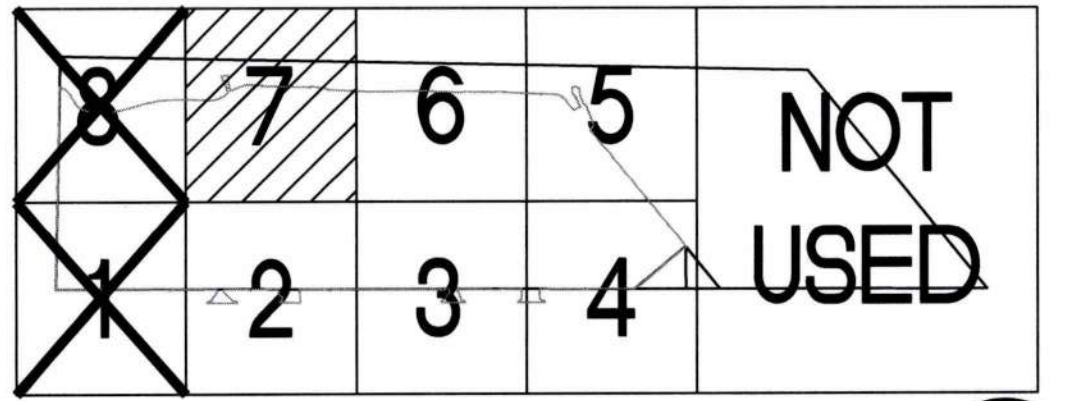
KEY PLAN
SCALE: NTS



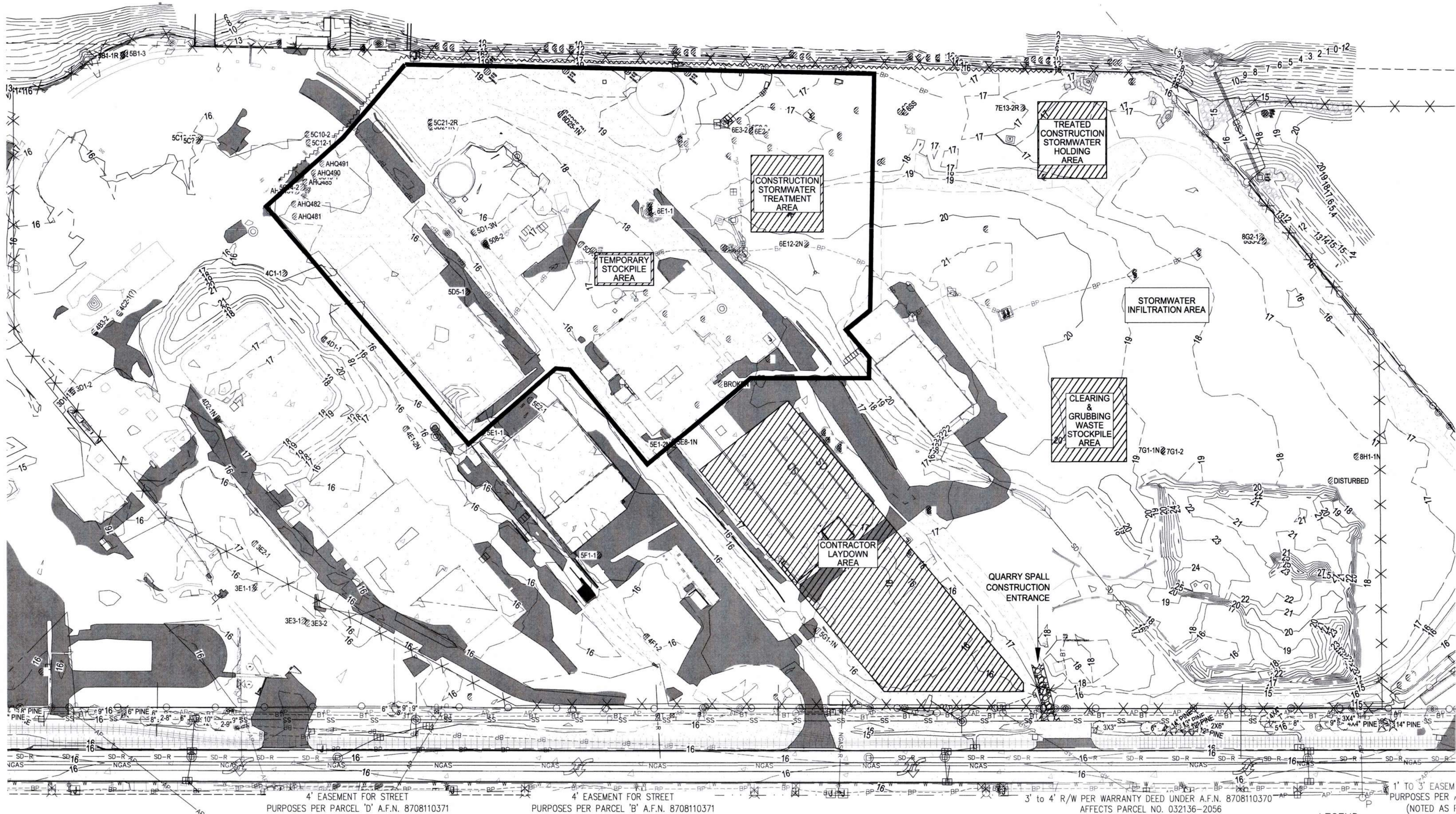


LEGEND

| | | | |
|-----|--------------------------------|--------|---|
| ○ | FOUND MONUMENT/ REBAR AS NOTED | --- | PARCEL LINE |
| × | SURVEY CONTROL POINT | --- | ROAD CENTERLINE |
| ⊙ | SANITARY SEWER MANHOLE | --- | RIGHT OF WAY LINE |
| ⊙ | UTILITY CLEAN OUT | --- | EASEMENT LINE |
| ⊙ | STORM MANHOLE | SD | STORM DRAIN LINE |
| ⊙ | STORM CATCH BASIN | SD-R | RECORD STORM LINE |
| ⊙ | STORM CULVERT | SS | SANITARY SEWER LINE |
| ⊙ | WATER MANHOLE | SS-R | RECORD SANITARY LINE |
| ⊙ | WATER VALVE | W | BURIED WATER LINE |
| ⊙ | WATER METER | W-R | RECORD WATER LINE |
| ⊙ | FIRE HYDRANT | NGAS | BURIED GAS LINE |
| ⊙ | IRRIGATION CONTROL VALVE | NGAS-R | RECORD GAS LINE |
| ⊙ | GAS VALVE | BP | BURIED POWER LINE |
| ⊙ | GAS RISER | BP-R | RECORD BURIED POWER |
| ⊙ | POWER METER | AP | OVERHEAD POWER LINE |
| ⊙ | POWER CABINET | BT | BURIED TELECOM LINE |
| ⊙ | UTILITY POLE | BT-R | RECORD TELECOM LINE |
| ⊙ | UTILITY POLE WITH DROP(S) | --- | CHAIN LINK FENCE |
| ⊙ | GUY ANCHOR | | RAILROAD TRACKS |
| ⊙ | JUNCTION BOX | --- | WETLAND DELINEATION |
| ⊙ | POWER VAULT | --- | ASPHALT SURFACE |
| ⊙ | TELECOM RISER | --- | CONCRETE SURFACE |
| ⊙ | TELECOM VAULT | --- | GRAVEL SURFACE |
| ⊙ | TELECOM JUNCTION BOX | --- | RIP-RAP SURFACE |
| ⊙ | UTILITY VAULT | --- | AREA OF STANDING WATER/ ICE AT TIME OF SURVEY |
| ⊙ | UTILITY MANHOLE | --- | WETLAND AREA |
| ⊙ | UNKNOWN STAND PIPE | --- | |
| ⊙ | UNKNOWN VALVE | --- | |
| ⊙ | UNKNOWN RISER | --- | |
| ⊙ | COLUMN | --- | |
| ⊙ | BOLLARD | --- | |
| ⊙ | SIGN | --- | |
| ⊙ | MAILBOX | --- | |
| ⊙ | ECOLOGY BLOCK | --- | |
| ⊙ | RAILROAD SWITCH | --- | |
| ⊙ | MONITORING WELL | --- | |
| ⊙ | PILE | --- | |
| ⊙ | WETLAND FLAG | --- | |
| ⊙ | TPN | --- | |
| --- | XX.NE. | --- | |
| ⊙ | SCHED. B EXCEPTION NUMBER | --- | |



HYLEBOS WATERWAY



TEMPORARY EROSION AND SEDIMENT CONTROL (TESC)

- THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADE OF TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED, VEGETATION/LANDSCAPING IS ESTABLISHED AND THE ENTIRE SITE IS STABILIZED.
- THE BOUNDARIES OF THE ACTIVE WORK AREAS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE ACTIVE WORK AREAS SHALL BE PERMITTED. THE MARKING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED PRIOR TO AND/OR IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LAIDEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ADJACENT WATER BODIES OR ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, TESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
- THE CESCL, CPESC, OR ESC LEAD MUST BE KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL AND HAVE THE SKILLS TO ASSESS:
 - SITE CONDITIONS AND CONSTRUCTION ACTIVITIES THAT COULD IMPACT THE QUALITY OF STORMWATER.
 - EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES USED TO CONTROL QUALITY OF STORMWATER DISCHARGES.

- THE CONTRACTOR'S CESCL, CPESC, OR ESC LEAD MUST EXAMINE STORMWATER VISUALLY FOR THE PRESENCE OF SUSPENDED SEDIMENT, TURBIDITY, DISCOLORATION, AND OIL SHEEN AND EVALUATE THE EFFECTIVENESS OF BMPs TO DETERMINE IF IT IS NECESSARY TO INSTALL, MAINTAIN, OR REPAIR BMPs.
 - THE CESCL, CPESC, OR ESC LEAD MUST INSPECT ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, ALL BMPs, AND ALL STORMWATER DISCHARGE POINTS AT LEAST ONCE EVERY CALENDAR WEEK AND WITHIN 24 HOURS OF ANY PRECIPITATION EVENT GREATER THAN 0.5-INCH. THE CESCL OR INSPECTOR MAY REDUCE THE INSPECTION FREQUENCY FOR TEMPORARY STABILIZED, INACTIVE AREAS TO ONCE EVERY CALENDAR MONTH.
 - CONSTRUCTION SITE OPERATORS MUST CORRECT ANY PROBLEMS IDENTIFIED BY THE CESCL, CPESC, OR ESC LEAD BY:
 - REVIEWING THE SWPPP FOR COMPLIANCE WITH THE CONSTRUCTION SWPPP ELEMENTS AND MAKING APPROPRIATE REVISIONS WITHIN 7 DAYS OF THE INSPECTION.
 - FULLY IMPLEMENT AND MAINTAIN APPROPRIATE SOURCE CONTROL AND/OR TREATMENT BMPs. EFFORTS SHOULD BE MADE TO CORRECT PROBLEMS BEFORE THE NEXT MAJOR STORM EVENT AND NO LONGER THAN 10 DAYS FROM IDENTIFICATION.
 - DOCUMENTING BMP IMPLEMENTATION AND MAINTENANCE IN THE SITE LOG BOOK.
- SAMPLING AND ANALYSIS OF THE STORMWATER DISCHARGES FROM A CONSTRUCTION SITE MAY BE NECESSARY ON A CASE-BY-CASE BASIS TO ENSURE COMPLIANCE WITH STANDARDS. ECOLOGY OR THE CITY WILL ESTABLISH THESE MONITORING AND ASSOCIATED REPORTING REQUIREMENTS.
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN SEDIMENT TRAP.

- ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO STORMWATER CONVEYANCE SYSTEM COMMISSIONING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
 - STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- POLLUTION PREVENTION NOTES**
- EQUIPMENT LUBRICATION AND FUELING OPERATIONS SHALL OCCUR AT APPROVED LOCATIONS.
 - PREVENT OILS AND FUELS FROM CONTACTING EXISTING SITE SURFACE WITH PROPER CONTAINMENT DEVICES.
 - ACCESS TO CONSTRUCTION IS VIA GRAVEL AND ASPHALT ROADS. MAINTAIN ACCESS ROADS INCLUDING BUT NOT LIMITED TO SWEEPING AND PLACEMENT OF ADDITIONAL GRAVEL AS NEEDED. THE INTENT IS TO PREVENT DIRT AND DEBRIS FROM VEHICLES AND EQUIPMENT FROM BEING DEPOSITED ON CITY OWNED STREETS.
 - SPILL CLEANUP PROCEDURES SHALL BE POSTED ON-SITE. IN CASE OF A SPILL THAT MAY ENTER GROUNDWATER, SURFACE WATER, OR STORM DRAIN SYSTEM, CONTACT WASHINGTON STATE EMERGENCY MANAGEMENT DIVISION AT (800) 258-5990 AND THE NATIONAL RESPONSE CENTER AT (800) 424-8802. SPILLS SHALL BE CLEANED UP IMMEDIATELY AND CONTAINED MATERIAL DISPOSED OF PROPERLY.
 - THE CONTRACTOR SHALL PREVENT ALL MATERIAL USED OR GENERATED ON-SITE FROM ENTERING THE STORM DRAINAGE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE CONTAINMENT/SEPARATION AT ALL TIMES. ALL STORMWATER POLLUTION PREVENTION MEASURES SHALL BE COORDINATED WITH ENGINEER REPRESENTATIVE TO ENSURE COMPLIANCE WITH APPLICABLE STORMWATER PERMITS. CONTACT THE ENGINEER A MINIMUM OF TWO (2) WEEKS PRIOR TO

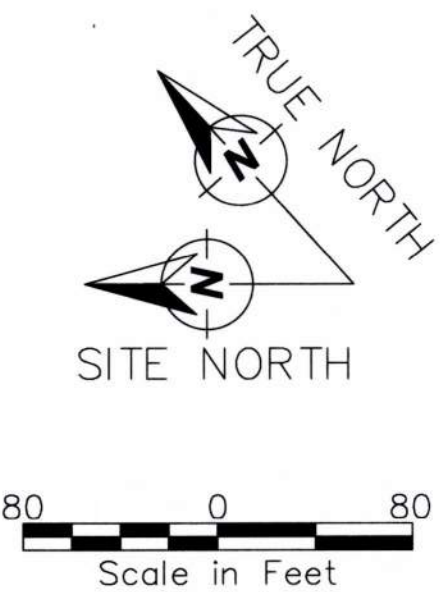
- THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONDUCT A DAILY STORMWATER/ENVIRONMENTAL INSPECTION OF THE CONSTRUCTION SITE. SCOPE OF THE INSPECTION SHALL BE COORDINATED WITH THE ENGINEER REPRESENTATIVE CONTACT MIKE KISAK AT (253) 377-3342.
 - THE CONTRACTOR SHALL FOLLOW ALL ENVIRONMENTAL AND OTHER REQUIREMENTS AS DEFINED IN THE PROJECT SWPPP.
 - THE CONTRACTOR SHALL SUBMIT DOCUMENTATION SUPPORTING THE CURRENT CERTIFICATION OF THE CONTRACTOR'S DESIGNATED CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL). THE DOCUMENT SHALL CONTAIN AT A MINIMUM THE FOLLOWING INFORMATION: NAME, CESCL NUMBER, AND EXPIRATION DATE.
 - THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A SAMPLE OF THE SITE LOG BOOK TO BE USED ON THE PROJECT FOR MAINTAINING EROSION CONTROL INSPECTION, OBSERVATION, CHECKLIST, AND CORRECTION REPORTS. UPON APPROVAL THE CONTRACTOR SHALL KEEP AND MAINTAIN THE SITE LOG BOOK ON-SITE DURING CONSTRUCTION.
 - CHECKLIST AND MAINTENANCE INFORMATION SHALL BE KEPT IN THE SITE LOG BOOK (MAINTAINED BY THE CESCL DESIGNATED BY THE CONTRACTOR) AND BE AVAILABLE FOR REVIEW BY THE OWNER, ENGINEER AND/OR GOVERNING AGENCY.
 - THE CONTRACTOR SHALL SUBMIT A COPY OF ALL RECENT INSPECTIONS, OBSERVATIONS, CHECKLISTS, AND CORRECTION REPORTS TO THE ENGINEER.

LEGEND

- SANITARY SEWER MANHOLE
- UTILITY CLEAN OUT
- STORM MANHOLE
- STORM CATCH BASIN
- STORM CULVERT
- ⊗ WATER MANHOLE
- WATER VALVE
- ⊕ WATER METER
- ⊗ FIRE HYDRANT
- ⊗ IRRIGATION CONTROL VALVE
- ⊗ GAS VALVE
- ⊗ GAS RISER
- ⊗ POWER METER
- ⊗ POWER CABINET
- ⊗ UTILITY POLE
- ⊗ UTILITY POLE WITH DROP(S)
- ⊗ GUY ANCHOR
- ⊗ JUNCTION BOX
- ⊗ POWER VAULT
- ⊗ LIGHT POLE
- ⊗ TELECOM RISER
- ⊗ TELECOM VAULT
- ⊗ TELECOM JUNCTION BOX
- ⊗ UTILITY VAULT
- ⊗ UTILITY MANHOLE
- ⊗ UNKNOWN STAND PIPE
- ⊗ UNKNOWN VALVE
- ⊗ UNKNOWN RISER
- COLUMN
- BOLLARD
- SIGN

- ⊗ MAILBOX
- ECOLOGY BLOCK
- RAILROAD SWITCH
- ⊗ MONITORING WELL
- TPN TAX PARCEL NUMBER
- XXNE DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
- ⊗ SCHED. B EXCEPTION NUMBER
- PARCEL LINE
- ROAD CENTERLINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- SD — STORM DRAIN LINE
- SD-R — RECORD STORM LINE
- SS — SS — SANITARY SEWER LINE
- SS-R — RECORD SANITARY LINE
- W — W — BURIED WATER LINE
- W-R — W-R — RECORD WATER LINE
- BURIED GAS LINE
- NGAS-R — RECORD GAS LINE
- BP — BP — BURIED POWER LINE
- BP-R — RECORD BURIED POWER
- AP — AP — OVERHEAD POWER LINE
- BT — BT — BURIED TELECOM LINE
- BT-R — RECORD TELECOM LINE
- CHAIN LINK FENCE
- RAILROAD TRACKS
- WETLAND DELINEATION
- SHEARWALL/SHEET PILE WALL PER 2004 MAPPING
- 10 — MAJOR ELEVATION CONTOUR (5' INTERVAL)
- 1 — MINOR ELEVATION CONTOUR (1' INTERVAL)

- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP-RAP SURFACE
- WETLAND AREA
- EASEMENT
- GRASS
- X — PROPOSED SILT FENCE
- — PROPOSED CONTAINMENT WALL ALIGNMENT



STOCKPILE NOTES

- STOCKPILES SHALL BE STABILIZED (WITH PLASTIC COVERING OR OTHER APPROVED DEVICE) DAILY BETWEEN NOVEMBER 1 AND MARCH 31 AND IN ADVANCE OF ANY RAIN EVENT.
- IN ANY SEASON, SEDIMENT LEACHING FROM A STOCKPILE MUST BE PREVENTED.
- TEMPORARY STOCKPILE AREA SHALL CONSIST OF AN AREA CONTAINED BY COMPACTED SOIL BERMS AND A COMPACTED SOIL BASE. MATERIALS SHALL BE GRADED OUT WITHIN THE CONTAINMENT WALL ALIGNMENT OR HAULED OFF SITE FOR DISPOSAL AT A LOCATION APPROVED BY THE ENGINEER.

CATCH BASIN PROTECTION NOTES

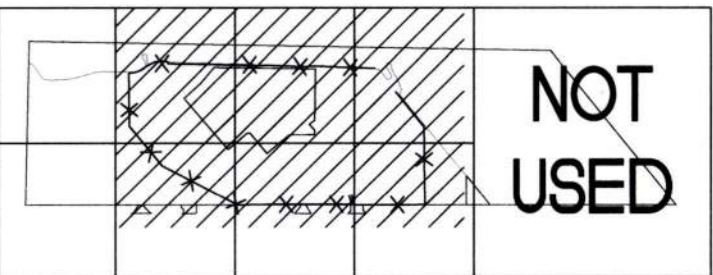
- CATCH BASIN INSERTS SHALL BE PROVIDED IN THE CATCH BASINS NOTED ON THE PLANS AS PART OF MOBILIZATION AND PRIOR TO GROUND DISTURBANCE ACTIVITIES. CATCH BASIN INSERTS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND SHALL REMAIN IN SERVICE UNTIL FINAL SITE STABILIZATION.
- CATCH BASIN INSERTS SHALL BE BOWHEAD STREAMGUARD CATCH BASIN INSERT #3003, ADVANCED ENVIRONMENTAL SOLUTIONS, OR EQUIVALENT AS APPROVED BY THE ENGINEER. IF AN EQUIVALENT IS PROPOSED, THE ENGINEER SHALL BE PROVIDED INFORMATION FOR REVIEW A MINIMUM OF 1 WEEK PRIOR TO PROPOSED INSTALLATION.
- CATCH BASIN INSERTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- CATCH BASIN INSERTS SHALL BE REMOVED FOLLOWING COMPLETION OF CONSTRUCTION AND STABILIZATION OF ALL DISTURBED AREAS.

CONSTRUCTION ENTRANCE NOTES

- MATERIAL SHALL BE 4-INCH TO 8-INCH QUARRY SPALLS AND MAY BE TOP-DRESSED WITH 1-INCH TO 3-INCH ROCK. (STATE STANDARD SPECIFICATIONS, SECTION 8-15)
- THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 50-FOOT WIDTH FOR THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA. THE ENTRANCE GATE MAY BE NARROWER THAN 50 FEET.
- ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
- IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF PRIOR TO THE VEHICLE ENTERING THE PAVED STREET. THE WASHING SHALL OCCUR ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO AN AREA WITHIN THE SILT FENCE OR THROUGH THE SILT FENCE.

SILT FENCE NOTES

- FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE CONTAINMENT TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCH OVERLAP, AND SECURELY FASTENED AT BOTH ENDS TO POSTS.
- POSTS SHALL BE SPACED A MAXIMUM OF 4 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE CONTAINMENT. THIS TRENCH SHALL BE BACKFILLED WITH WASHED GRAVEL.

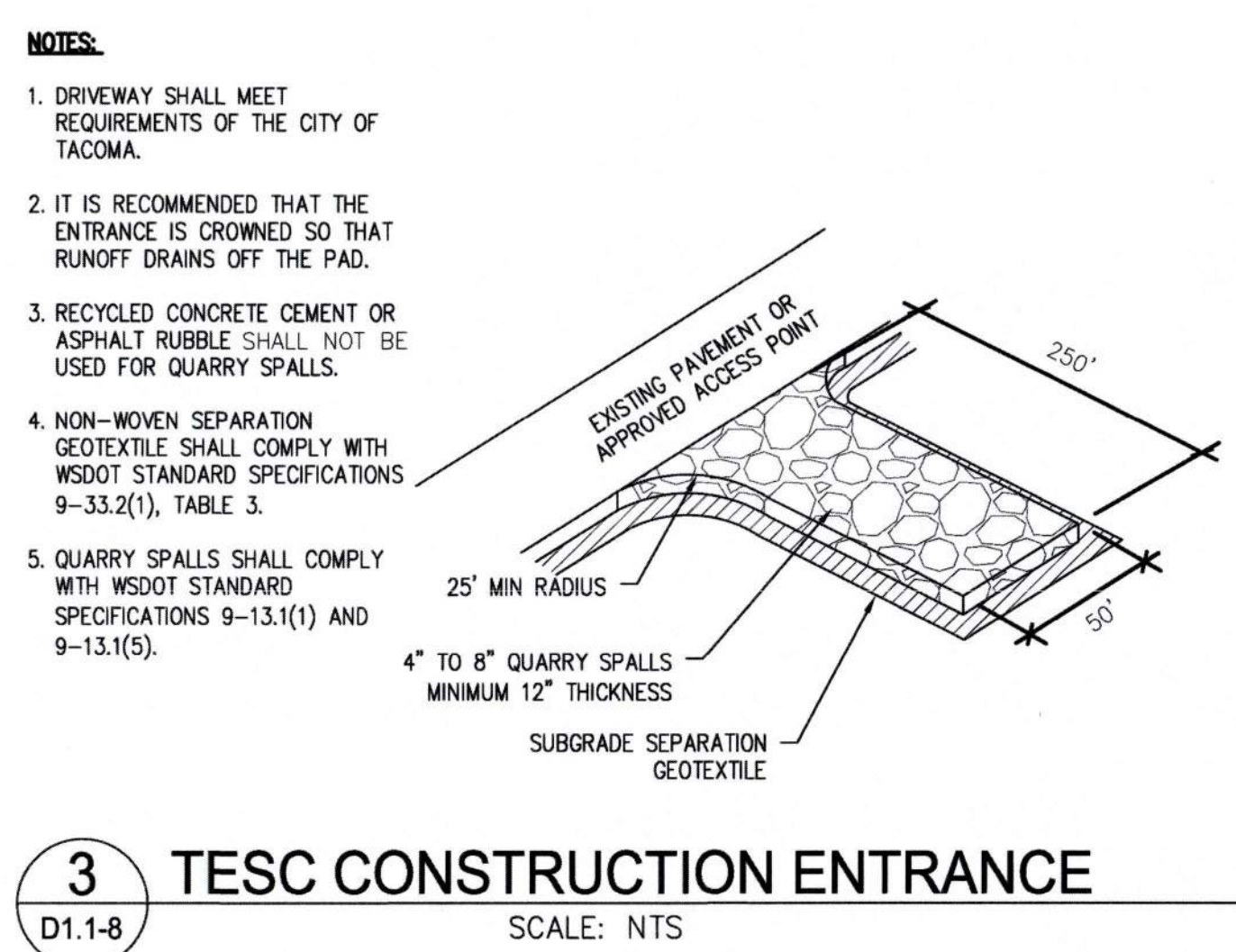
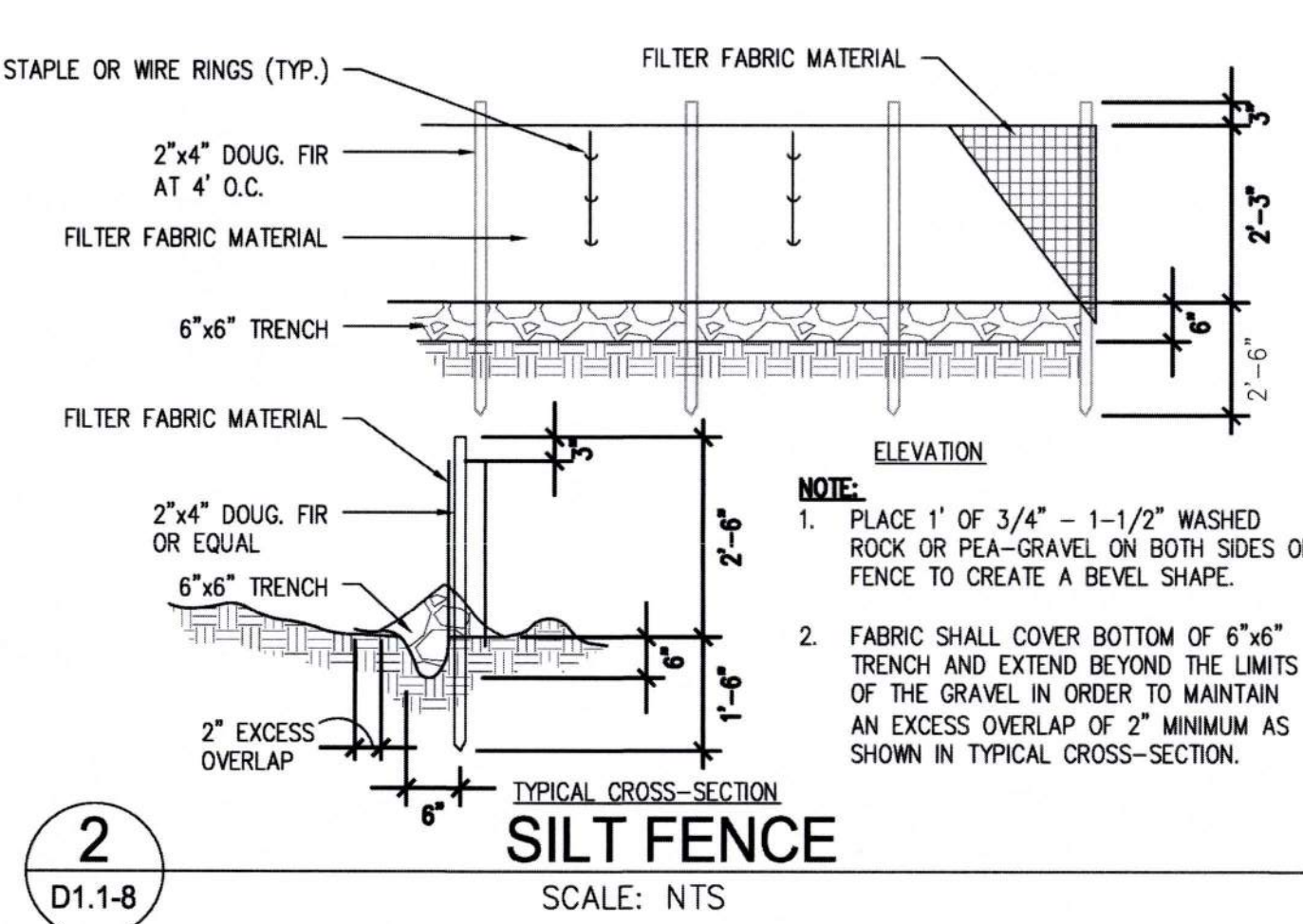
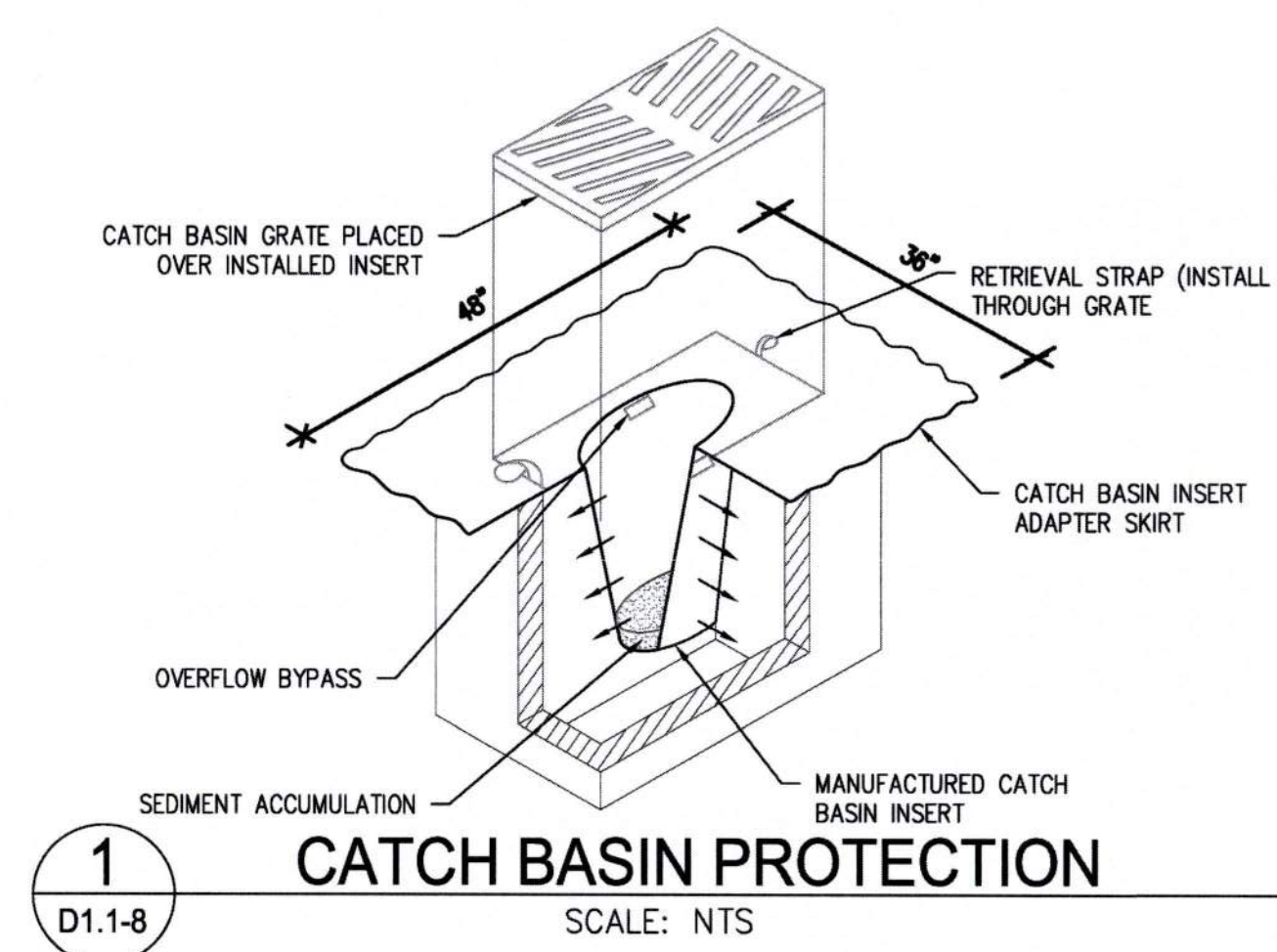


KEY PLAN

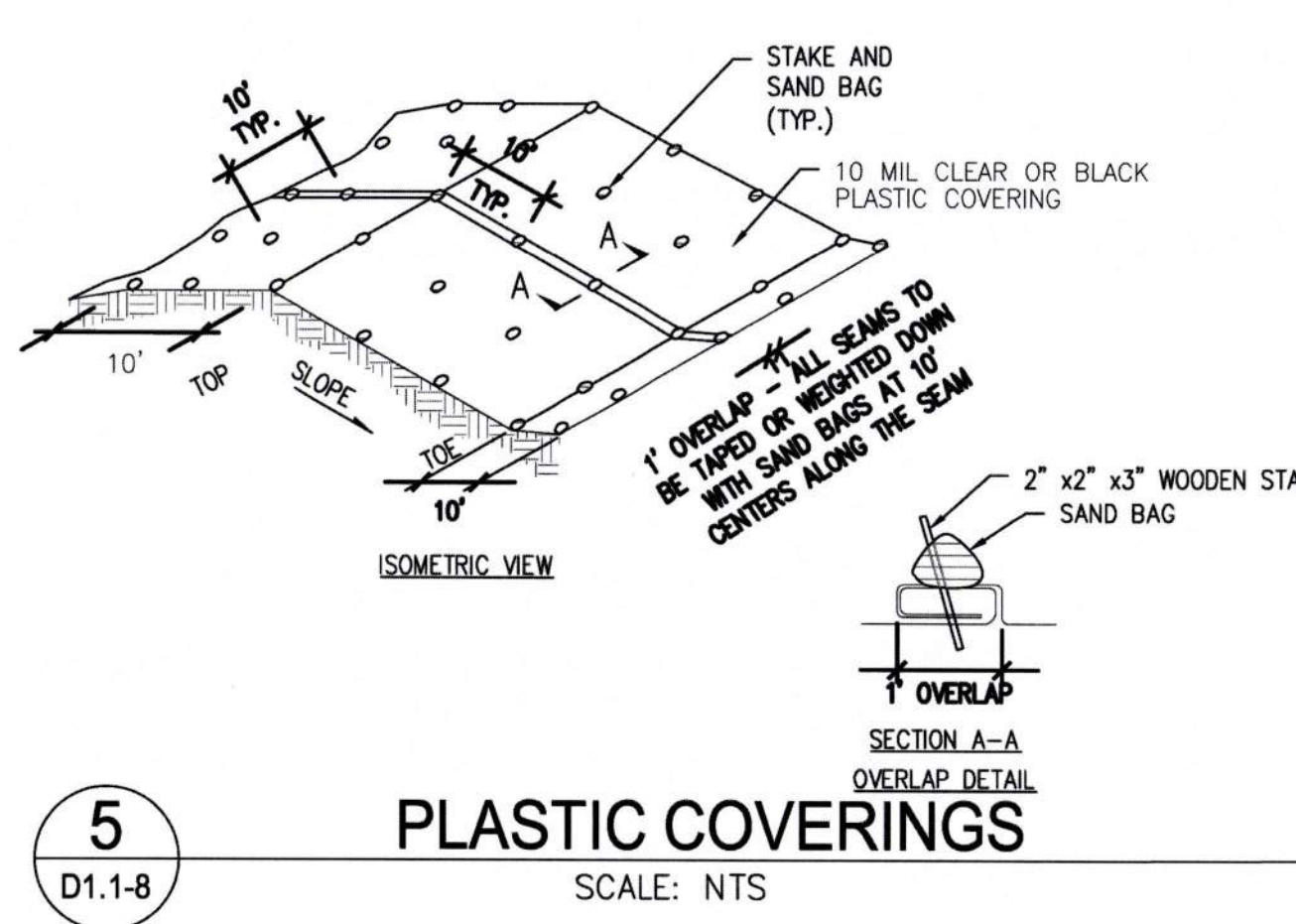
SCALE: NTS



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|------|---------------------------------|---------------------------------|--|--|-------------------------|----------------|--------------------|---------------------|--------------------|--------------------------------|-------------------------|----------------|
| 6697 | ARKEMA INTERIM ACTION - PHASE 1 | CONTAINMENT WALL | TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLAN | CONTRACTOR: PA000000403 | TOWNSHIP: 21N | RANGE: 3E | SECTION: 36 | DATE: 10/15/2021 | PARCEL: 0321351053 | DRAWING SCALE: AS NOTED | PHASE: FOR BID | |
| | | | | CONTRACTOR: PA000000403 | TOWNSHIP: 21N | RANGE: 3E | SECTION: 36 | DATE: 10/15/2021 | PARCEL: 0321351053 | DRAWING SCALE: AS NOTED | PHASE: FOR BID | |
| D1.0 | SH #10 OF #44 | ARKEMA INTERIM ACTION - PHASE 1 | CONTAINMENT WALL | TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLAN | CONTRACTOR: PA000000403 | TOWNSHIP: 21N | RANGE: 3E | SECTION: 36 | DATE: 10/15/2021 | PARCEL: 0321351053 | DRAWING SCALE: AS NOTED | PHASE: FOR BID |
| | | | | | CONTRACTOR: PA000000403 | TOWNSHIP: 21N | RANGE: 3E | SECTION: 36 | DATE: 10/15/2021 | PARCEL: 0321351053 | DRAWING SCALE: AS NOTED | PHASE: FOR BID |
| | | | | APPROVED: <i>John Howard</i> | CHECKED BY: T. LOUIERE | DATE: 07/29/26 | PROJECT ENGR: DATE | PRINTED BY: kbegley | DATE: Jul 29, 2026 | PORT ADDRESS: ONE SITCUM PLAZA | TACOMA, WA 98401-1837 | |
| | | | | DOF | DALETON | OLMSTED | FUGLEVAND | MARK: | REVISION: | BY: | DATE: | |
| | | | | Port of Tacoma | DOF | DALETON | OLMSTED | MARK: | REVISION: | BY: | DATE: | |

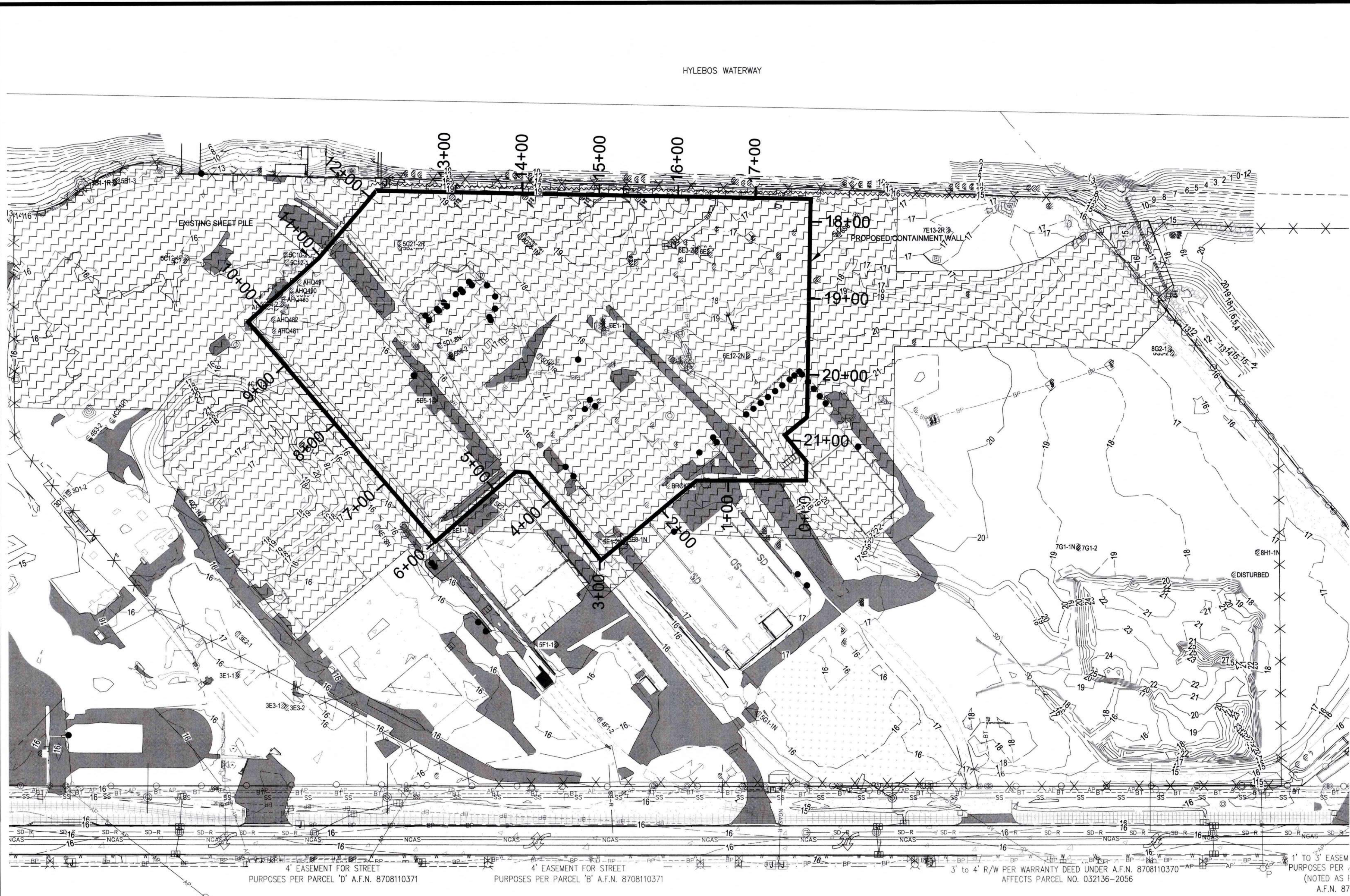


- NOTES:**
1. DRIVEWAY SHALL MEET REQUIREMENTS OF THE CITY OF TACOMA.
 2. IT IS RECOMMENDED THAT THE ENTRANCE IS CROWNED SO THAT RUNOFF DRAINS OFF THE PAD.
 3. RECYCLED CONCRETE CEMENT OR ASPHALT RUBBLE SHALL NOT BE USED FOR QUARRY SPALLS.
 4. NON-WOVEN SEPARATION GEOTEXTILE SHALL COMPLY WITH WSDOT STANDARD SPECIFICATIONS 9-33.2(1), TABLE 3.
 5. QUARRY SPALLS SHALL COMPLY WITH WSDOT STANDARD SPECIFICATIONS 9-13.1(1) AND 9-13.1(5).



| | | | | | | | | | | | | | | | |
|--|---|---------------------------|---------------------|---------------------------------------|------------------|--|---------------|--------------|-------------------------|-----------------------------|-------------------|--------------------------------------|---|----------------------------------|----------------|
| 6697
D1.1
SH #11 OF #44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
TESC DETAILS | APPROVED:

DIRECTOR | R. WEBB
07/29/26 | CHECKED BY
T. LOUVIERE
07/29/26 | DATE
07/29/26 | PROJECT
ARKEMA INTERIM ACTION - PHASE 1 | SECTION
3E | RANGE
21N | TOWNSHIP
PA000000403 | CONTRACT/CONS.
101585.01 | M. ID.
FOR BID | 6697
D1.1
SH #11 OF #44 | PORT OF TACOMA
P.O. BOX 887 TACOMA, WA 98401 (206)385-5641 | DOF
DALTON OLIMSTED FUGLEVAND | Port of Tacoma |
| | | | | | | | | | | | | | | | |
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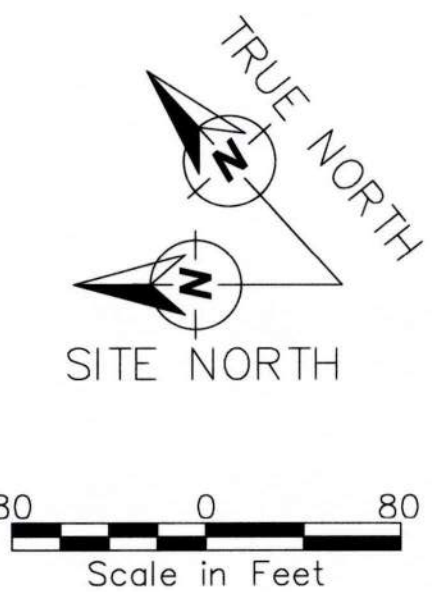
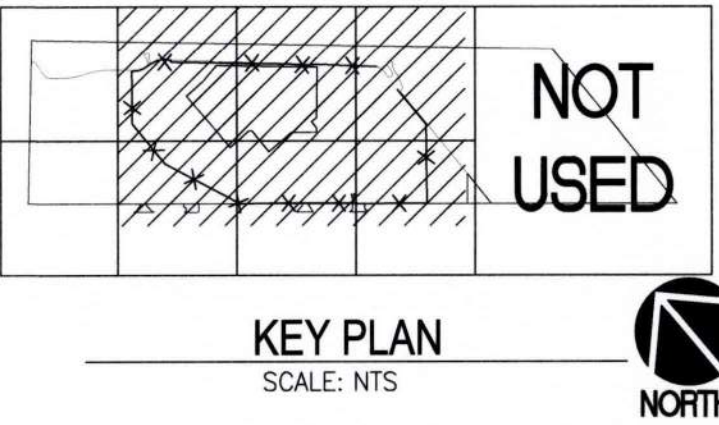


LEGEND

- Sanitary Sewer Manhole
- Utility Clean Out
- Storm Manhole
- Storm Catch Basin
- Storm Culvert
- Water Manhole
- Water Valve
- Water Meter
- Fire Hydrant
- Irrigation Control Valve
- Gas Valve
- Gas Riser
- Power Meter
- Power Cabinet
- Utility Pole
- Utility Pole with Drop(s)
- Guy Anchor
- Junction Box
- Power Vault
- Light Pole
- Telecom Riser
- Telecom Vault
- Telecom Junction Box
- Utility Vault
- Utility Manhole
- Unknown Stand Pipe
- Unknown Valve
- Unknown Riser
- Column
- Bollard
- Sign
- Mailbox
- Ecology Block
- Railroad Switch
- Monitoring Well
- Tax Parcel Number
- Distance and Direction of Noted Object from Property Line
- Sched. B Exception Number
- Major Elevation Contour (5' Interval)
- Minor Elevation Contour (1' Interval)
- Parcel Line
- Road Centerline
- Right of Way Line
- Easement Line
- Storm Drain Line
- Record Storm Line
- Sanitary Sewer Line
- Record Sanitary Line
- Buried Water Line
- Record Water Line
- Buried Gas Line
- Record Gas Line
- Buried Power Line
- Record Buried Power
- Overhead Power Line
- Buried Telecom Line
- Record Telecom Line
- Chain Link Fence
- Railroad Tracks
- Wetland Delineation
- 2004 Pond Mapping Limits
- Shearwall/Sheet Pile Wall per 2004 Mapping
- Proposed Containment Wall Alignment
- Proposed Silt Fence
- Asphalt Surface
- Concrete Surface
- Gravel Surface
- Rip-Rap Surface
- Wetland Area
- Grass
- Clearing and Grubbing Limits

NOTES

- PERFORMING CLEARING AND GRUBBING WITHIN THE AREA SHOWN IN ACCORDANCE WITH SPECIFICATION 31 10 00.



6697

D2.0

SH #12 OF #44

CONTRACT/CONS: PA000000403

M. ID: 101585.01

PHASE: FOR BID

ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL

CLEARING AND GRUBBING

TOWNSHIP: 21N

RANGE: 3E

SECTION: 36

DAT-HRZ: WA83/2011

VERT: MLLW 15.73'

@ POT MON #178

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

APPROVED:

CHECKED BY: T. LOUVIERE

DATE: 07/29/26

PROJECT ENGR: DATE: 07/29/26

PRINTED BY: kbegley

DATE: Jul 29, 2026

DOF

DALTON OLMSTED FUGLEVAND

MADE IN WASHINGTON

STATE OF WASHINGTON

PROFESSIONAL SEAL

Port of Tacoma

P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841

APPR: DATE:

BY:

REVISION:

MARK:



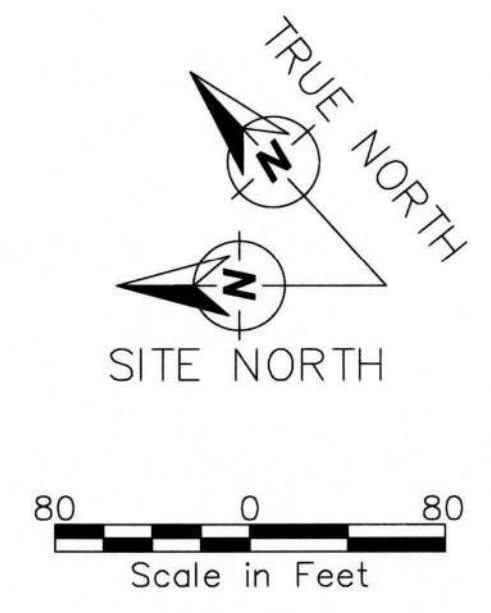
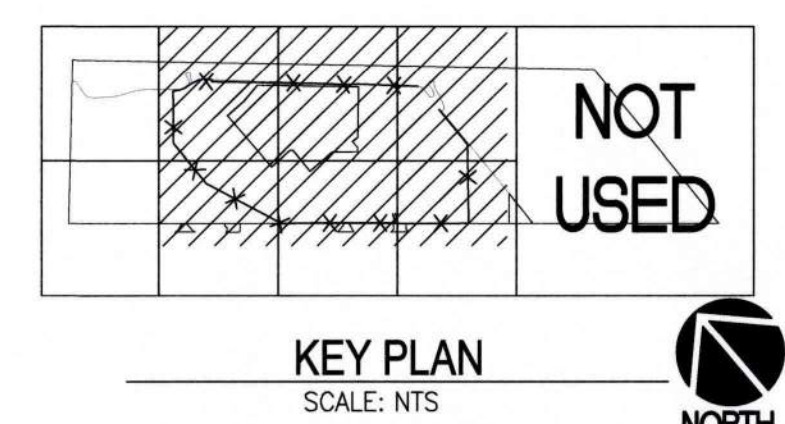
PURPOSES PER PARCEL 'D' A.F.N. 8708110371

PURPOSES PER PARCEL 'B' A.F.N. 8708110371

3' to 4' R/W PER WARRANTY DEED UNDER A.F.N. 8708110370 AFFECTS PARCEL NO. 032136-2056 (NOTED AS A.F.N. 87)

- LEGEND**
- SANITARY SEWER MANHOLE
 - UTILITY CLEAN OUT
 - ⊕ STORM MANHOLE
 - ⊕ STORM CATCH BASIN
 - Y STORM CULVERT
 - ⊕ WATER MANHOLE
 - ⊕ WATER VALVE
 - ⊕ WATER METER
 - ⊕ FIRE HYDRANT
 - ⊕ IRRIGATION CONTROL VALVE
 - ⊕ GAS VALVE
 - ⊕ GAS RISER
 - ⊕ POWER METER
 - ⊕ POWER CABINET
 - ⊕ UTILITY POLE
 - ⊕ UTILITY POLE WITH DROP(S)
 - ⊕ GUY ANCHOR
 - ⊕ JUNCTION BOX
 - ⊕ POWER VAULT
 - ⊕ LIGHT POLE
 - ⊕ TELECOM RISER
 - ⊕ TELECOM VAULT
 - ⊕ TELECOM JUNCTION BOX
 - ⊕ UTILITY VAULT
 - ⊕ UTILITY MANHOLE
 - ⊕ UNKNOWN STAND PIPE
 - ⊕ UNKNOWN VALVE
 - ⊕ UNKNOWN RISER
 - COLUMN
 - BOLLARD
 - ⊕ SIGN
 - ⊕ MAILBOX
 - ⊕ ECOLOGY BLOCK
 - ⊕ RAILROAD SWITCH
 - ⊕ MONITORING WELL
 - TPN TAX PARCEL NUMBER
 - XXNLE DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
 - ⊕ SCHED. B EXCEPTION NUMBER
- 10 — MAJOR ELEVATION CONTOUR (5' INTERVAL)
 - 1 --- MINOR ELEVATION CONTOUR (1' INTERVAL)
 - PARCEL LINE
 - ROAD CENTERLINE
 - RIGHT OF WAY LINE
 - EASEMENT LINE
 - SD --- STORM DRAIN LINE
 - SD-R --- RECORD STORM LINE
 - SS --- SS --- SANITARY SEWER LINE
 - SS-R --- RECORD SANITARY LINE
 - W --- W --- BURIED WATER LINE
 - W-R --- W-R --- RECORD WATER LINE
 - NGAS-R --- BURIED GAS LINE
 - BP --- BP --- BURIED POWER LINE
 - BP-R --- RECORD BURIED POWER
 - AP --- AP --- OVERHEAD POWER LINE
 - BT --- BT --- BURIED TELECOM LINE
 - BT-R --- RECORD TELECOM LINE
 - CHAIN LINK FENCE
 - RAILROAD TRACKS
 - WETLAND DELINEATION
 - 2004 POND MAPPING LIMITS
 - SHEARWALL/SHEET PILE WALL PER 2004 MAPPING
 - PROPOSED CONTAINMENT WALL ALIGNMENT
 - PROPOSED SILT FENCE
 - ASPHALT SURFACE
 - CONCRETE SURFACE
 - GRAVEL SURFACE
 - RIP-RAP SURFACE
 - WETLAND AREA
 - GRASS
 - TO BE DEMOLISHED

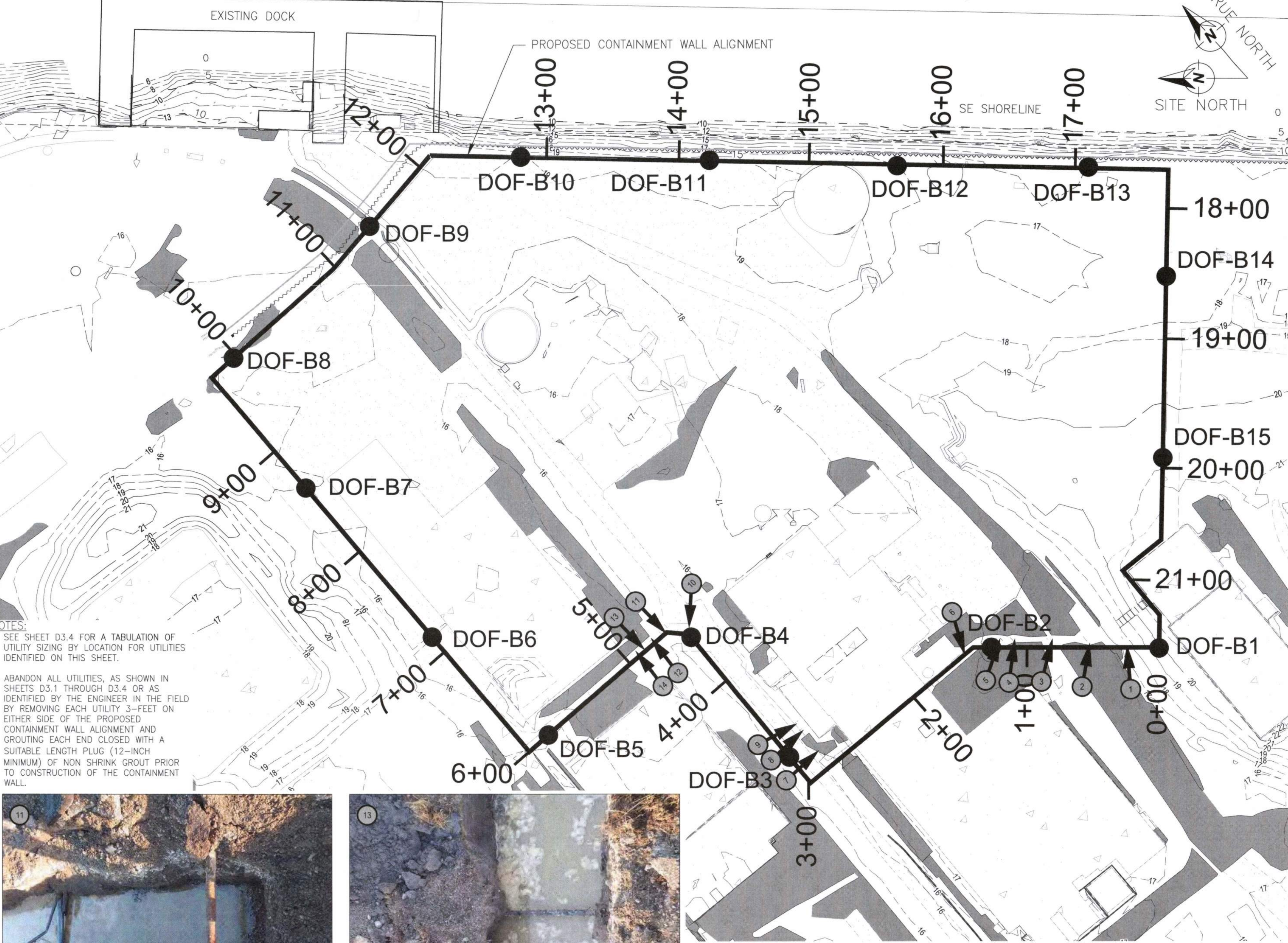
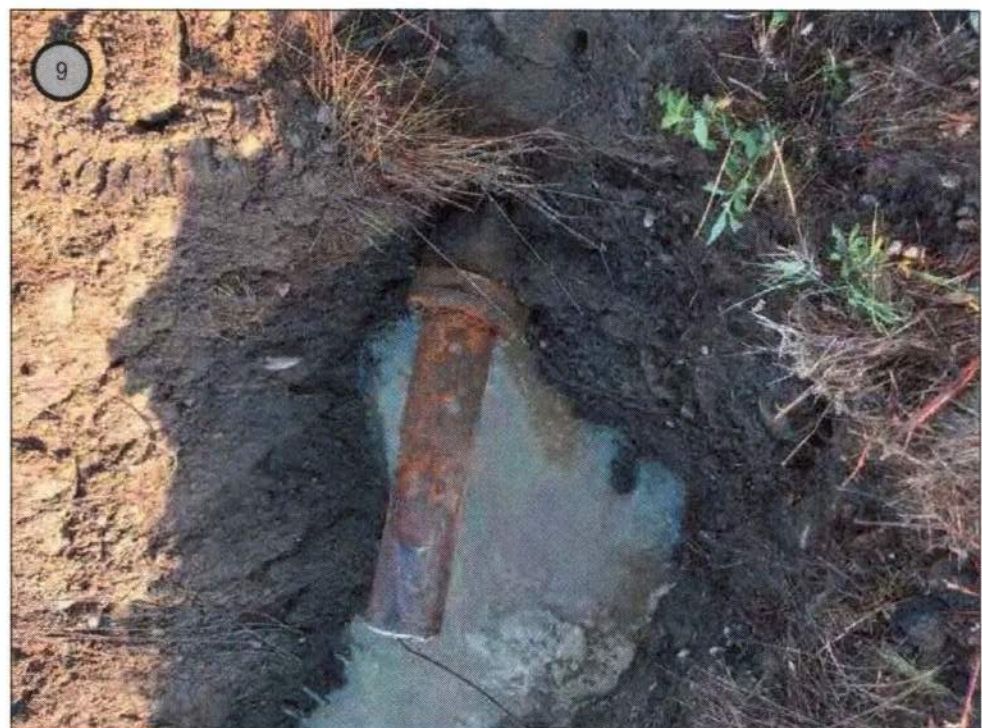
- NOTES**
1. REMOVE ALL DELETERIOUS MATERIAL FOUND ON-SITE INCLUDING SCRAP WOOD, TRASH, ETC. AND DISPOSE OF AT AN APPROVED OFF-SITE LOCATION.
 2. REMOVE ALL RAIL TIES WITHIN THE TESC AREA, PREPARE RAIL TIES FOR DISPOSAL BY REMOVING EXCESS SOIL FROM THE RAIL TIES, AND PROVIDE TRANSPORTATION AND DISPOSAL OF RAIL TIES AT A FACILITY APPROVED BY THE ENGINEER. AVERAGE SPACING OF TIES IS APPROXIMATELY 40 TIES PER 65 LINEAR FEET OF TRACK ALIGNMENT.
 3. RAILS HAVE BEEN PREVIOUSLY REMOVED, ADDITIONAL RAIL TIES MAY BE PRESENT, CONTRACTOR TO PICK AND SEGREGATE.
 4. REMOVE ALL CONCRETE AND OTHER OBSTRUCTIONS TO FULL DEPTH AS SHOWN ON THIS SHEET. CONCRETE TO BE STOCKPILED ON-SITE AT A LOCATION DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. MATERIALS GENERATED DURING CONCRETE DEMOLITION OTHER THAN CONCRETE, e.g., OBSTRUCTIONS, SHALL BE STOCKPILED SEPARATELY FOR DISPOSAL.
 5. REMOVE ALL ASPHALT WITHIN THE TESC AREA, AS SHOWN ON THIS SHEET. ASPHALT TO BE STOCKPILED ON-SITE AT A LOCATION DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
 6. ALL REINFORCING STEEL PRODUCED AS PART OF DEMOLITION WORK SHALL BE RECYCLED AT A CERTIFIED RECYCLING FACILITY APPROVED BY THE ENGINEER.
 7. MONITORING WELLS SE1-1, SE2-1, AND SE8-1N WILL BE ABANDONED BY THE ENGINEER AND WILL COINCIDE WITH CONTRACTOR MOBILIZATION ACTIVITIES.
 8. SEE SHEETS D3.1 THROUGH D3.4 FOR SUBSURFACE UTILITY DEMOLITION AND ABANDONMENTS WITHIN THE BARRIER WALL ALIGNMENT.



| | | | | | |
|---|---|---|--|--------------------------------------|---|
| 6697
D3.0
SH #13 OF #44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
DEMOLITION PLAN | | DOF
DALTON OLIMSTED FUGLEVAND | | |
| | CONT/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID | TOWNSHIP: 21N
DAT-HRZ: WA83/2011
PARCEL: 0321351053 | SECTION: 36
RANGE: 3E
MLW 15.73' @ POT MON #178
DRAWING SCALE: AS NOTED | APPROVED:

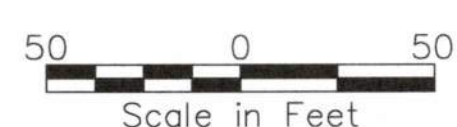
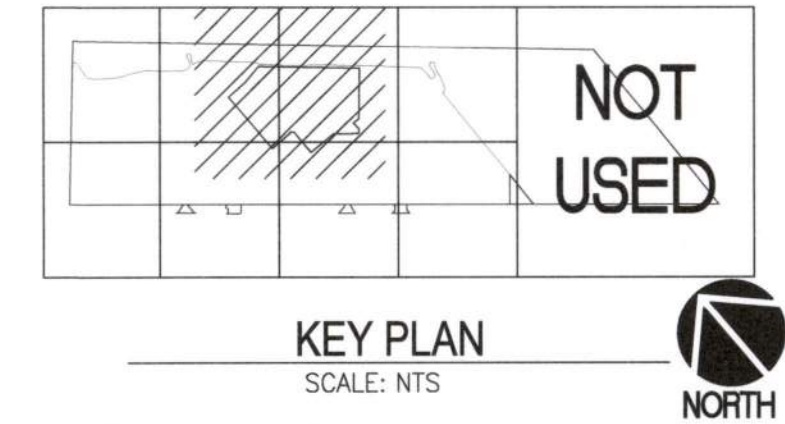
R. WEBB
07/29/26 | CHECKED BY: DATE
T. LOUVIERE 07/29/26
PROJ. ENGR. DATE
k. begley Jul 29, 2026
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837 |

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NOTES:
1. SEE SHEET D3.4 FOR A TABULATION OF UTILITY SIZING BY LOCATION FOR UTILITIES IDENTIFIED ON THIS SHEET.
2. ABANDON ALL UTILITIES, AS SHOWN IN SHEETS D3.1 THROUGH D3.4 OR AS IDENTIFIED BY THE ENGINEER IN THE FIELD BY REMOVING EACH UTILITY 3- FEET ON EITHER SIDE OF THE PROPOSED CONTAINMENT WALL ALIGNMENT AND GROUTING EACH END CLOSED WITH A SUITABLE LENGTH PLUG (12-INCH MINIMUM) OF NON SHRINK GROUT PRIOR TO CONSTRUCTION OF THE CONTAINMENT WALL.

- LEGEND**
- EXPLORATION BORING LOCATION
 - PROPOSED CONTAINMENT WALL ALIGNMENT
 - 0+00 — CONTAINMENT WALL ALIGNMENT STATIONING
 - PARCEL BOUNDARY
 - EXISTING SHEET PILE WALL
 - EXISTING FENCE
 - SUBSURFACE UTILITY LOCATION & PHOTO ID
 - MAJOR ELEVATION CONTOUR (5' INTERVAL)
 - MINOR ELEVATION CONTOUR (1' INTERVAL)
 - ASPHALT SURFACE
 - CONCRETE SURFACE
 - GRAVEL SURFACE
 - RIP-RAP SURFACE
 - WETLAND AREA
 - EASEMENT



6697

D3.1

SH #14 OF #44

ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL

EXISTING CONDITIONS - SUBSURFACE UTILITIES 1

CONTRACT/CONS: PA000000403

M. ID: 101585.01

PHASE: FOR BID

TOWNSHIP: 21N

RANGE: 3E

SECTION: 36

DAT-HRZ: WA83/2011

VERT: MLLW 15.73' @ POT MON #178

PARCEL: 0321351053

DRAWING SCALE: AS NOTED

APPROVED:

CHECKED BY: TLOUVIERE

DATE: 07/29/26

DIRECTOR ENG. DATE: 07/29/26

PROJ. ENGR DATE: 07/29/26

PRINTED BY: kbegley

DATE: Jul 29, 2026

PORT ADDRESS: ONE SITCOM PLAZA

TACOMA, WA 98401-1837

Port of Tacoma

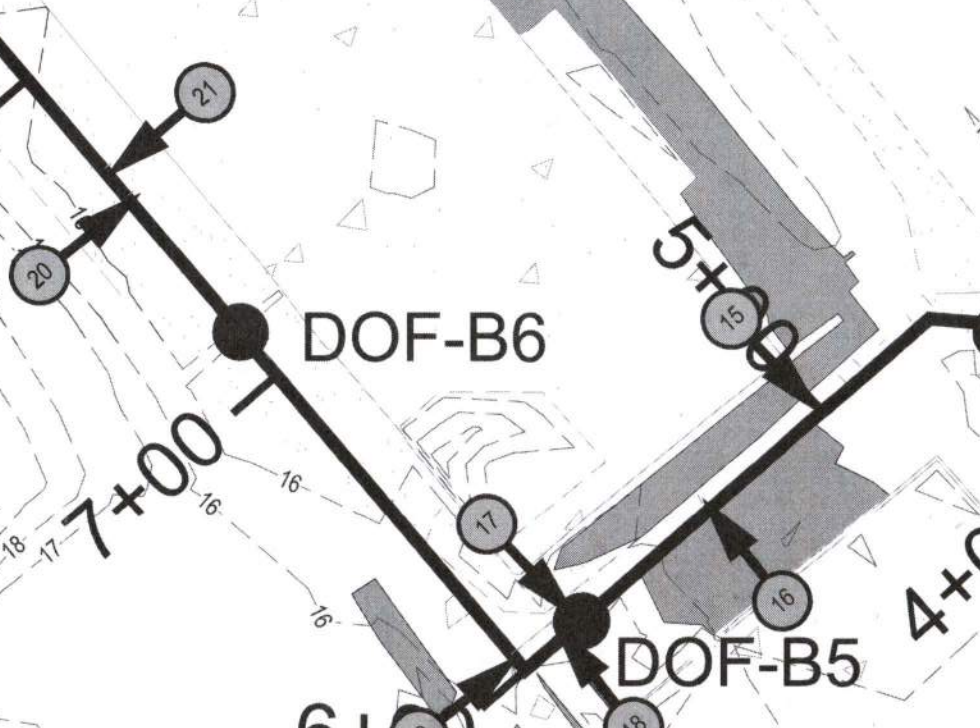
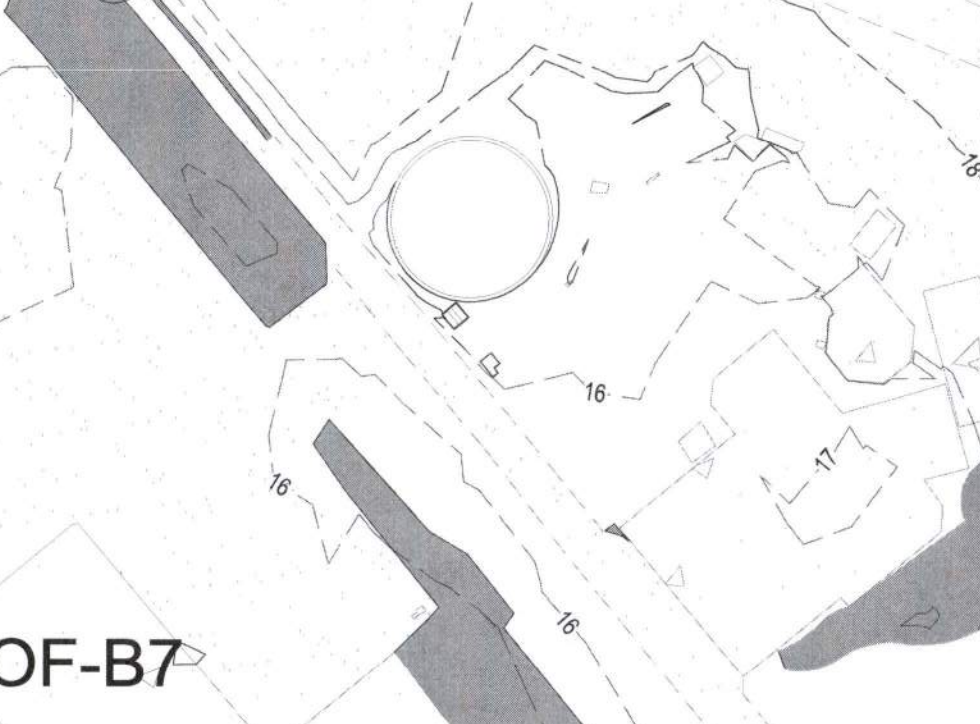
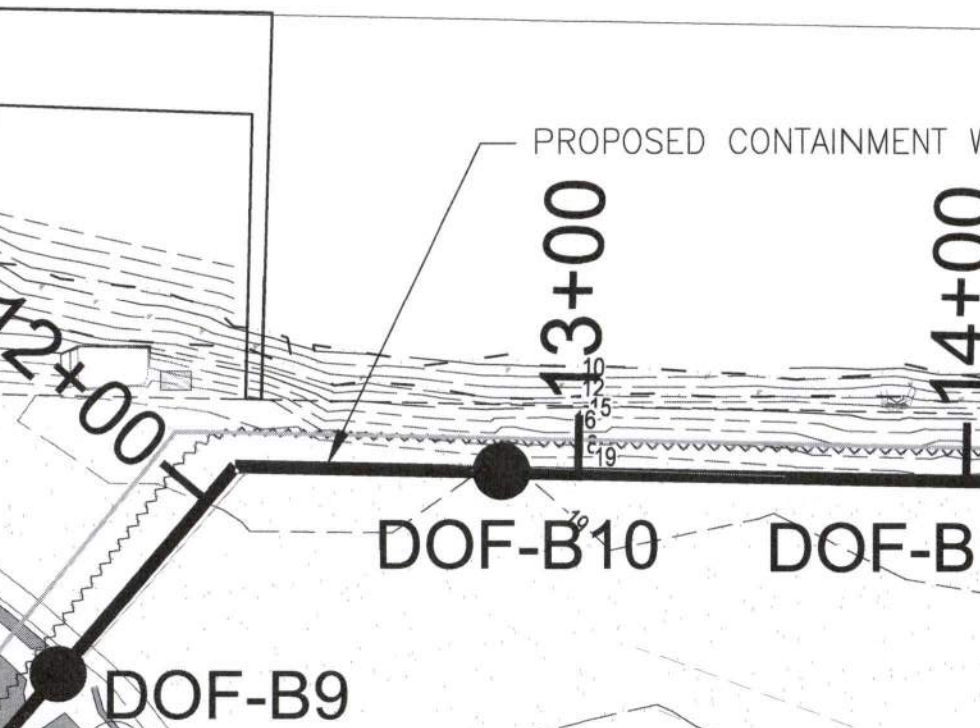
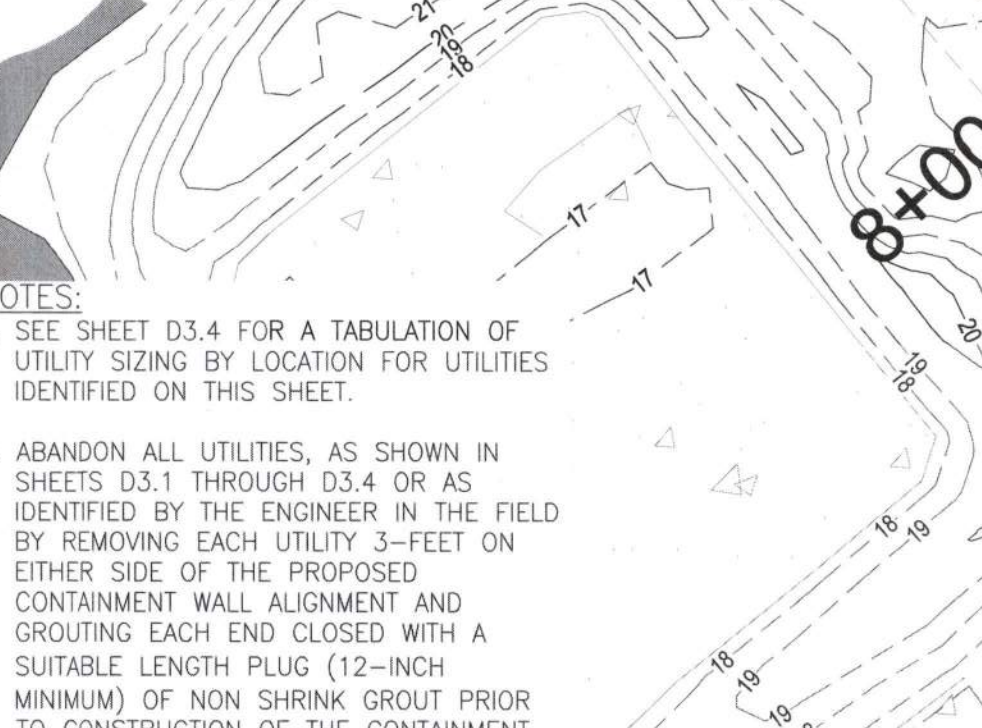
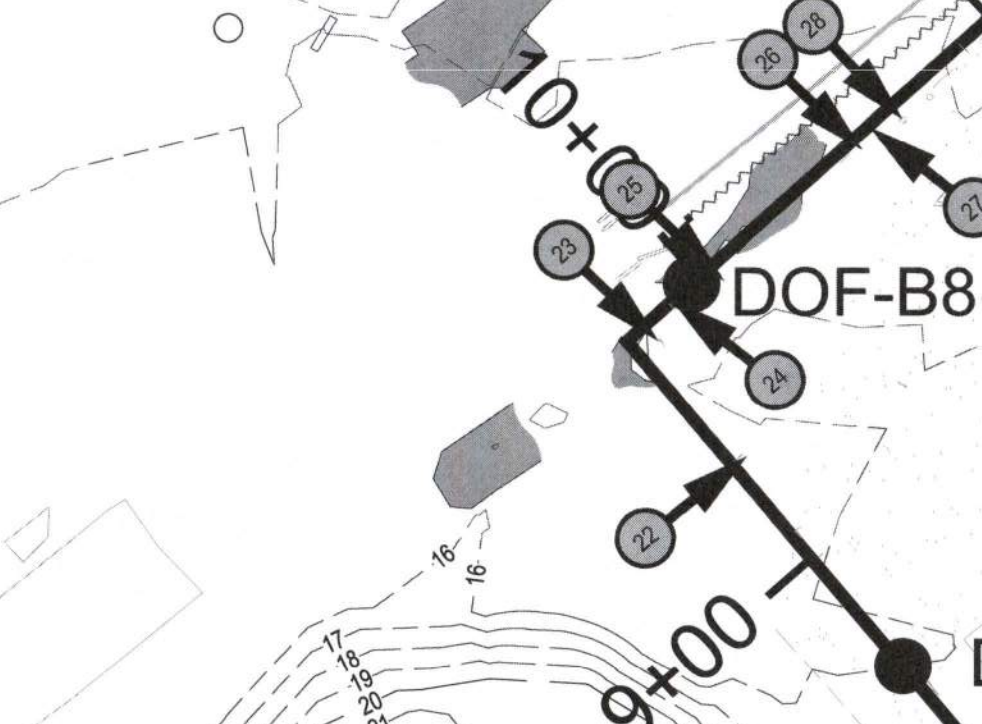
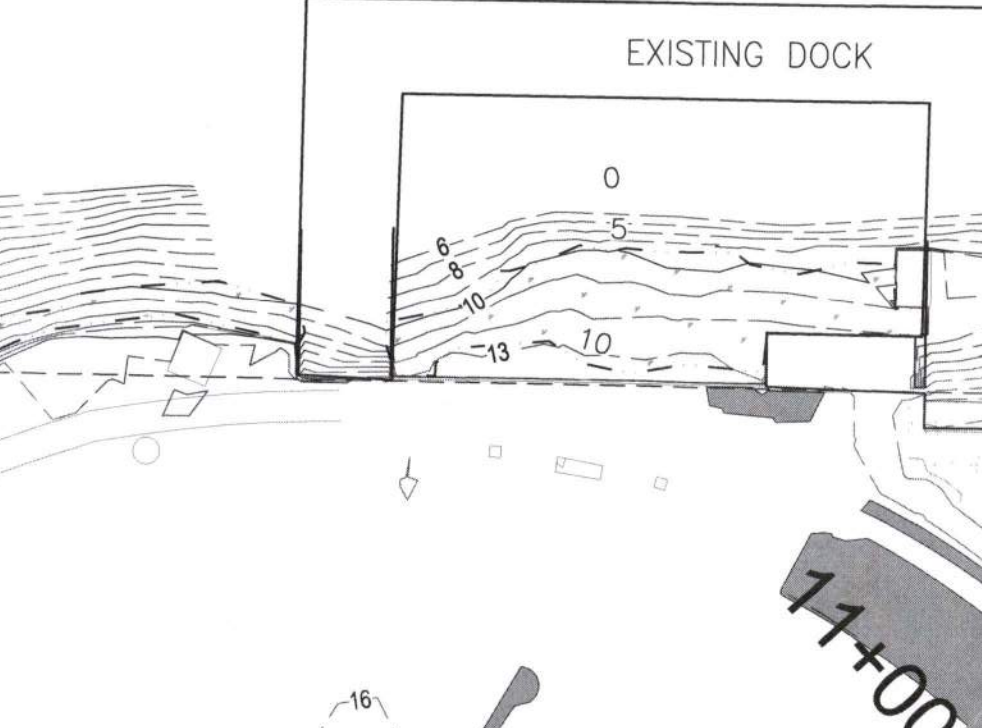
DALTON OLMSTED FUGLEVAND

DOF

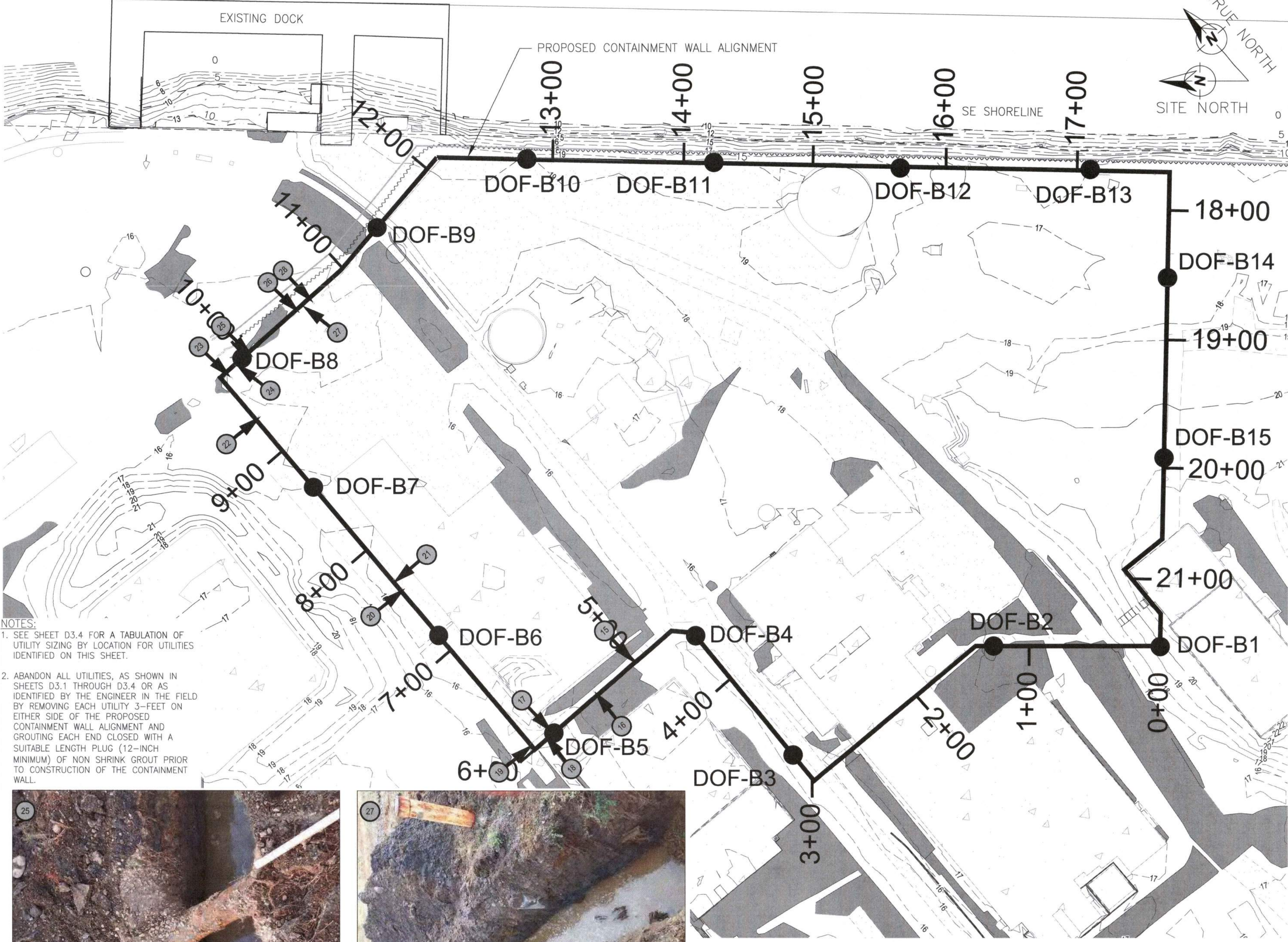
REGISTERED PROFESSIONAL ENGINEER

STATE OF WASHINGTON

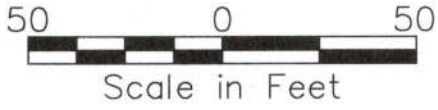
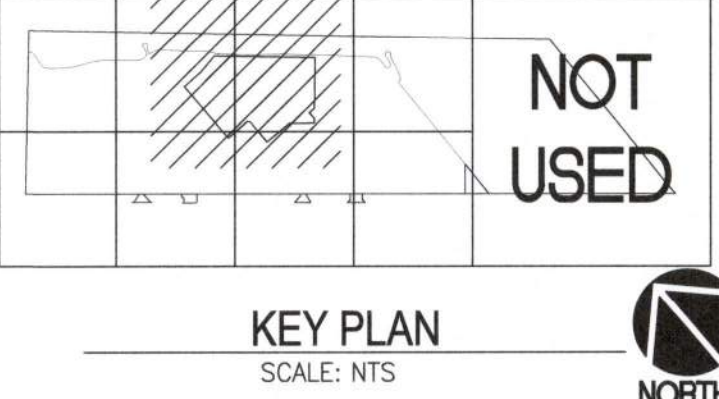
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NOTES:
1. SEE SHEET D3.4 FOR A TABULATION OF UTILITY SIZING BY LOCATION FOR UTILITIES IDENTIFIED ON THIS SHEET.
2. ABANDON ALL UTILITIES, AS SHOWN IN SHEETS D3.1 THROUGH D3.4 OR AS IDENTIFIED BY THE ENGINEER IN THE FIELD BY REMOVING EACH UTILITY 3- FEET ON EITHER SIDE OF THE PROPOSED CONTAINMENT WALL ALIGNMENT AND GROUTING EACH END CLOSED WITH A SUITABLE LENGTH PLUG (12-INCH MINIMUM) OF NON SHRINK GROUT PRIOR TO CONSTRUCTION OF THE CONTAINMENT WALL.



- LEGEND**
- EXPLORATION BORING LOCATION
 - PROPOSED CONTAINMENT WALL ALIGNMENT
 - 0+00— CONTAINMENT WALL ALIGNMENT STATIONING
 - PARCEL BOUNDARY
 - EXISTING SHEET PILE WALL
 - EXISTING FENCE
 - SUBSURFACE UTILITY LOCATION & PHOTO ID
 - MAJOR ELEVATION CONTOUR (5' INTERVAL)
 - MINOR ELEVATION CONTOUR (1' INTERVAL)
 - ASPHALT SURFACE
 - CONCRETE SURFACE
 - GRAVEL SURFACE
 - RIP-RAP SURFACE
 - WETLAND AREA
 - EASEMENT



6697

D3.2

SH #15 OF #44

ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
EXISTING CONDITIONS - SUBSURFACE UTILITIES 2

CONT/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID

TOWNSHIP: 21N
RANGE: 3E
SECTION: 36
DAT-HRZ: WA83/2011
PARCEL: 0321351053

VERT: MLLW 15.73' @ POT MON #178
DRAWING SCALE: AS NOTED

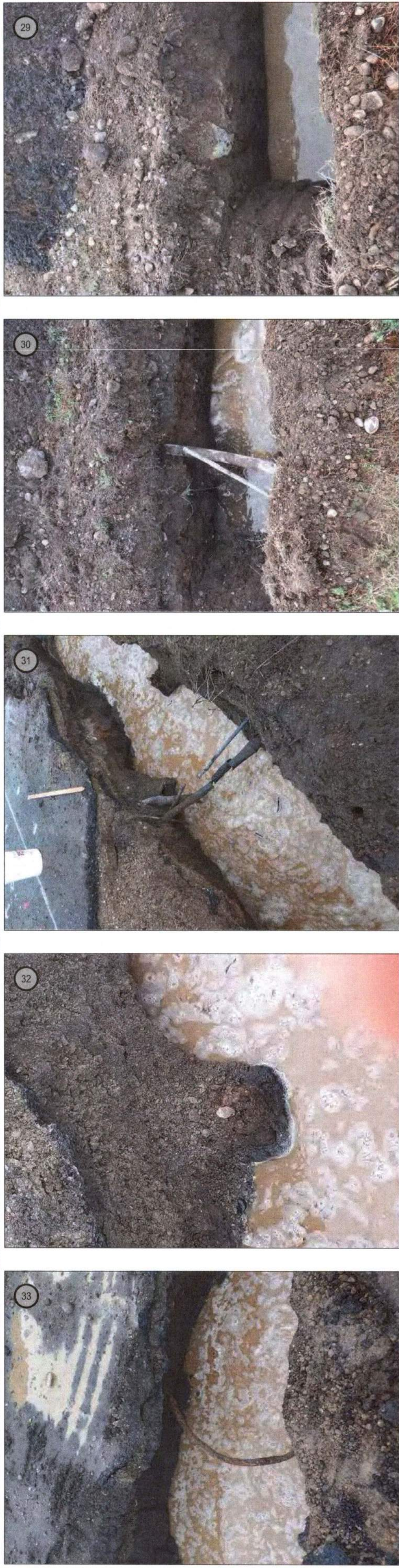
APPROVED:

R. WEBB 07/29/26
CHECKED BY: TLOUVIERE 07/29/26
DIRECTOR ENG. DATE: PROJ. ENGR DATE: PRINTED BY: kbegley Jul 29, 2026
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837

Port of Tacoma
DALTON OLIMSTED FUGLEVAND
DOF

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

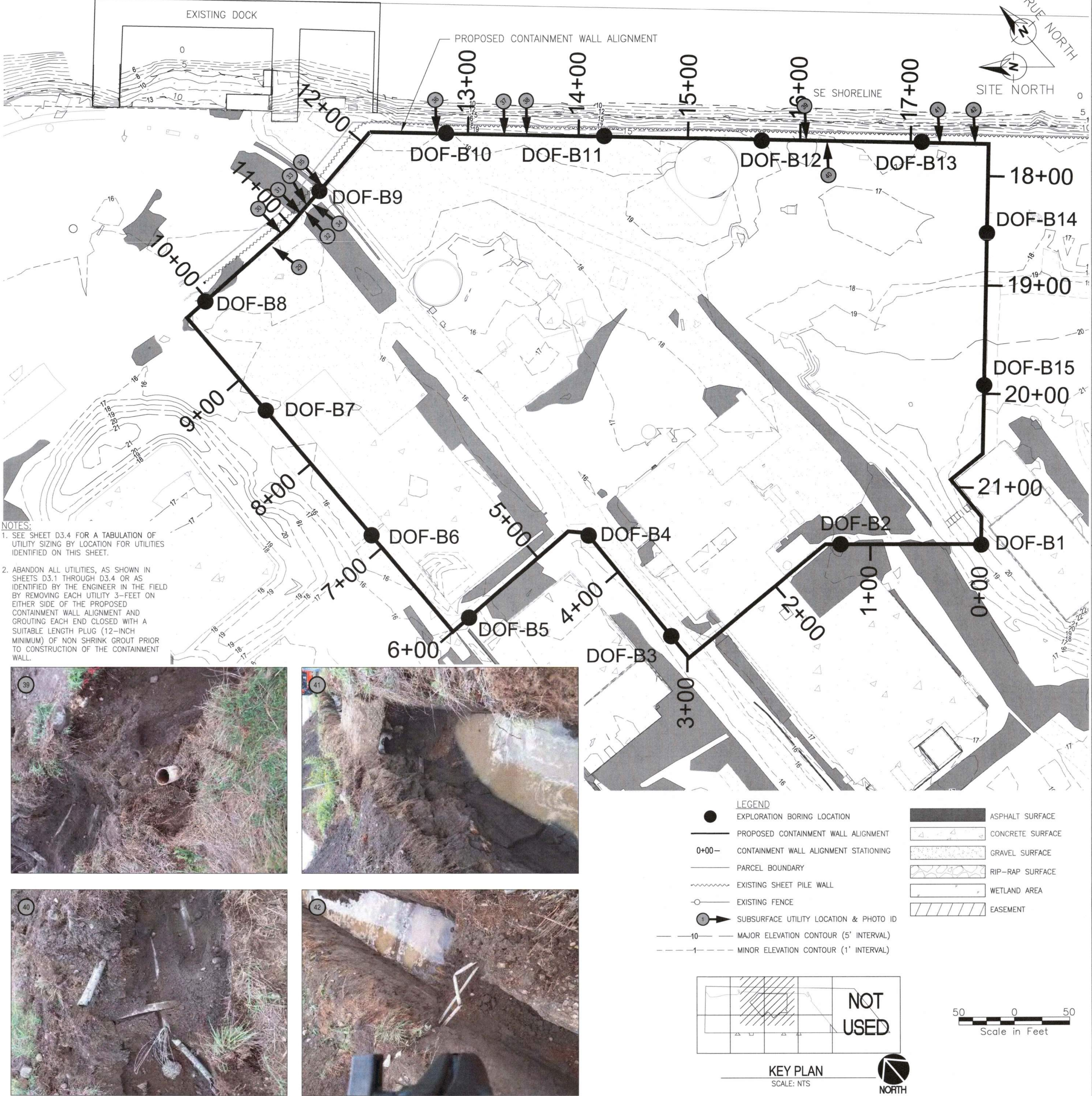
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NOTES:

1. SEE SHEET D3.4 FOR A TABULATION OF UTILITY SIZING BY LOCATION FOR UTILITIES IDENTIFIED ON THIS SHEET.

2. ABANDON ALL UTILITIES, AS SHOWN IN SHEETS D3.1 THROUGH D3.4 OR AS IDENTIFIED BY THE ENGINEER IN THE FIELD BY REMOVING EACH UTILITY 3- FEET ON EITHER SIDE OF THE PROPOSED CONTAINMENT WALL ALIGNMENT AND GROUTING EACH END CLOSED WITH A SUITABLE LENGTH PLUG (12-INCH MINIMUM) OF NON SHRINK GROUT PRIOR TO CONSTRUCTION OF THE CONTAINMENT WALL.



6697

D3.3

SH #16 OF #44

ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL

EXISTING CONDITIONS - SUBSURFACE UTILITIES 3

CONT/CONS: PA000000403

M. ID: 101585.01

PHASE: FOR BID

TOWNSHIP: 21N

DAT-HRZ: WA83/2011

PARCEL: 0321351053

SECTION: 36

MLW 15.73' @ POT MON #178

DRAWING SCALE: AS NOTED

APPROVED:

CHECKED BY: TLOUVIERE

DATE: 07/29/26

PROJECT: 101585.01

DATE: 07/29/26

PRINTED BY: kbegley

DATE: Jul 29, 2026

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

DOF

DALTON OLMSTED FUGLEVAND

Port of Tacoma

101585.01

DATE: 07/29/26

BY: kbegley

REVISION: 1

MARK: 101585.01

APPR: kbegley

STATE OF WASHINGTON

REGISTERED PROFESSIONAL ENGINEER

NO. 101585.01

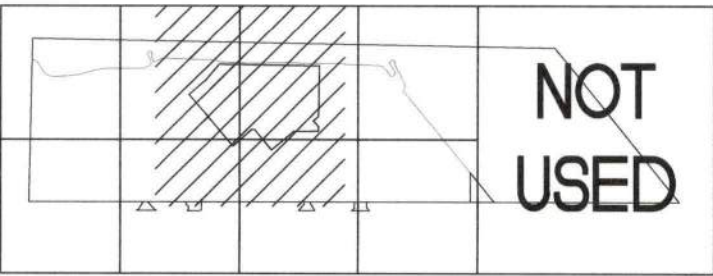
EXPIRATION DATE: 07/29/26

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SUBSURFACE UTILITY SUMMARY FOR UTILITIES TO BE CAPPED AND/OR DEMOLISHED

| Photo | Sheet | Pipe Size (in) | Notes |
|-------|-------|----------------|---|
| 1 | D3.1 | 8 | One utility |
| 2 | D3.1 | 4 | One utility |
| 3 | D3.1 | 6 & 1/2 | Two utilities |
| 4 | D3.1 | 8 | One utility |
| 5 | D3.1 | 6 & 8 | Two utilities |
| 6 | D3.1 | 4 | One utility |
| 7 | D3.1 | 1/2, 3 & 8 | Three utilities, Larger Pipes are under water |
| 8 | D3.1 | 3/4 | One utility |
| 9 | D3.1 | 8 | One utility |
| 10 | D3.1 | 3 | One utility |
| 11 | D3.1 | 3, 2 & 1/2 | Three utilities |
| 12 | D3.1 | Concrete | Not utility, demolition required |
| 13 | D3.1 | 1 | One utility |
| 14 | D3.1 | 2 | One utility |
| 15 | D3.2 | 1 | One utility |
| 16 | D3.2 | 1 | One utility |
| 17 | D3.2 | 3 | One utility |
| 18 | D3.2 | 3 & 6 | Two utilities |
| 19 | D3.2 | 6 & 6 | Two utilities |
| 20 | D3.2 | 3 | One utility |
| 21 | D3.2 | 2 | One utility |
| 22 | D3.2 | 3 | One utility |
| 23 | D3.2 | 2 | One utility |
| 24 | D3.2 | 6 & 6 | Two utilities |
| 25 | D3.2 | 8 | One utility |
| 26 | D3.2 | 4 | One utility |
| 27 | D3.2 | Steel casing | Not utility, removal necessary |
| 28 | D3.3 | Steel Casing | Not utility, removal necessary |
| 29 | D3.3 | Steel Casing | Not utility, removal necessary |
| 30 | D3.3 | 2 & 1 | One utility |
| 31 | D3.3 | 2, 2 & 1/2 | Three utilities |
| 32 | D3.3 | Valve | utility under water |
| 33 | D3.3 | 1 | One utility |
| 34 | D3.3 | Steel Casing | Not utility, removal necessary |
| 35 | D3.3 | 6 | One utility |
| 36 | D3.3 | 1 | One utility |
| 37 | D3.3 | 2 | One utility |
| 38 | D3.3 | 2 | One utility |
| 39 | D3.3 | 2, 2, 1 & 3 | Four utilities |
| 40 | D3.3 | 2, 2, 1 & 3 | Four utilities |
| 41 | D3.3 | 3 | One utility |
| 42 | D3.4 | 1, 1 | Two utilities |
| 43 | D3.4 | 4 | One utility |
| 44 | D3.4 | 2 | One utility |
| 45 | D3.4 | 2 & 1/2 | Two utilities |

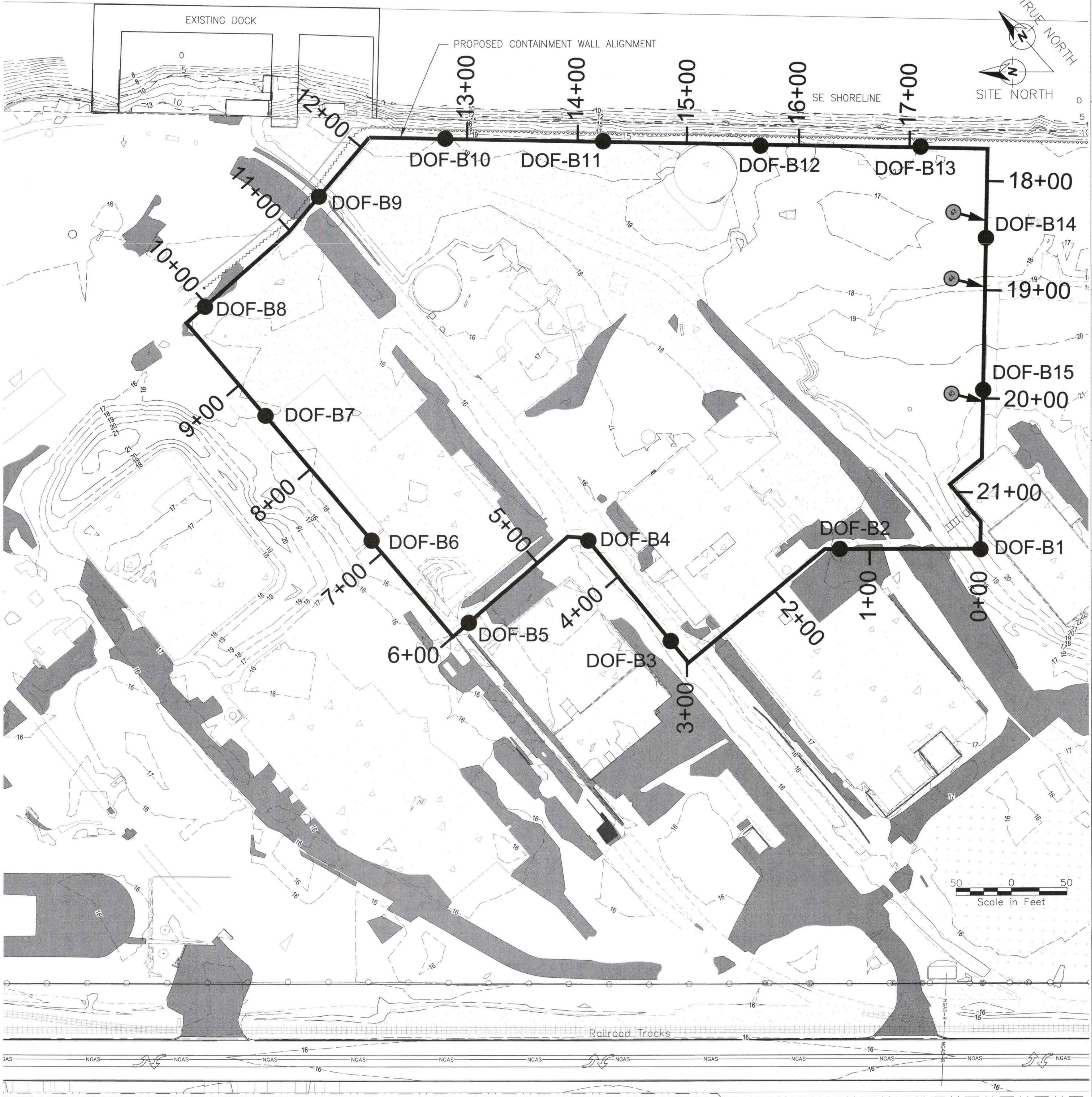
NOTES:
1. SEE ABOVE FOR TABULATION OF UTILITY SIZING BY LOCATION FOR UTILITIES IDENTIFIED ON THIS SHEET.
2. ABANDON ALL UTILITIES, AS SHOWN IN SHEETS D3.1 THROUGH D3.4 OR AS IDENTIFIED BY THE ENGINEER IN THE FIELD BY REMOVING EACH UTILITY 3- FEET ON EITHER SIDE OF THE PROPOSED CONTAINMENT WALL ALIGNMENT AND GROUTING EACH END CLOSED WITH A SUITABLE LENGTH PLUG (12-INCH MINIMUM) OF NON SHRINK GROUT PRIOR TO CONSTRUCTION OF THE CONTAINMENT WALL.



KEY PLAN
SCALE: NTS



- LEGEND**
- EXPLORATION BORING LOCATION
 - PROPOSED CONTAINMENT WALL ALIGNMENT
 - 0+00— CONTAINMENT WALL ALIGNMENT STATIONING
 - PARCEL BOUNDARY
 - EXISTING SHEET PILE WALL
 - EXISTING FENCE
 - SUBSURFACE UTILITY LOCATION & PHOTO ID
 - 10 — MAJOR ELEVATION CONTOUR (5' INTERVAL)
 - 1 — MINOR ELEVATION CONTOUR (1' INTERVAL)
 - ASPHALT SURFACE
 - CONCRETE SURFACE
 - GRAVEL SURFACE
 - RIP-RAP SURFACE
 - AREA OF STANDING WATER/ICE AT TIME OF SURVEY
 - WETLAND AREA
 - EASEMENT
 - GRASS



Port of Tacoma
P.O. BOX 1807 TACOMA, WA 98401 (206) 835-8641

DALTON
OLMSTED
FUGLEVAND

MADE IN WASHINGTON
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
14745

6697
D3.4
SH #17 OF #44

ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL

EXISTING CONDITIONS - SUBSURFACE UTILITIES 4

CONTRACT/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID

TOWNSHIP: 21N
RANGE: 3E
SECTION: 36
DATE-HRZ: WA83/2011
PARCEL: 0321351053

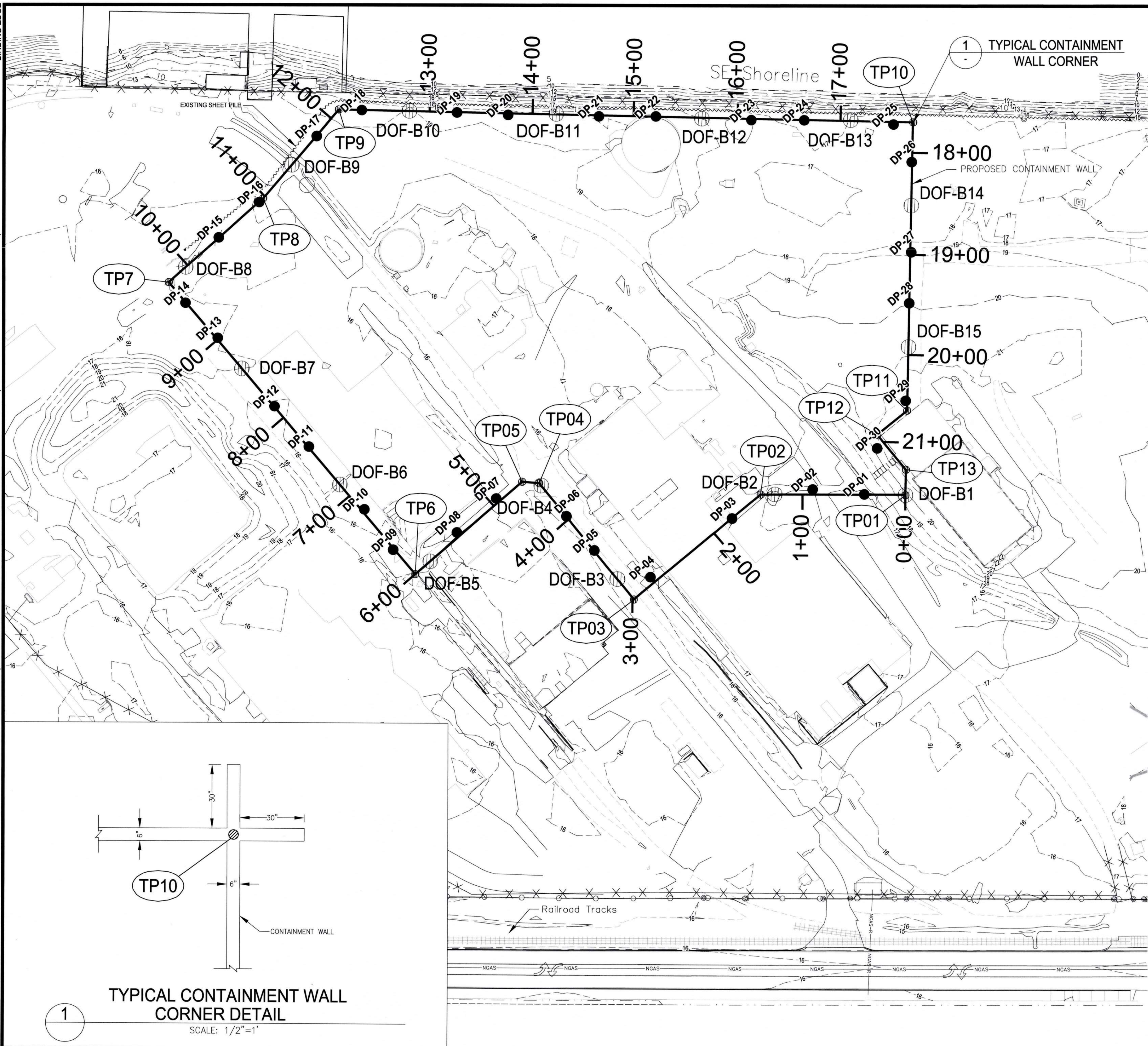
DATE: 07/29/26
BY: TLOUVIERE
PROJ. ENGR. DATE: 07/29/26
PRINTED BY: kbegeley
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837

APPROVED: R. WEBB
CHECKED BY: TLOUVIERE
DIRECTOR ENG. DATE: 07/29/26

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PORT OF TACOMA FILE: P:\Port of Tacoma Arkema Site\CAD\Figures\101585.01 - Arkema Manufacturing Area Interim Action\101585.01 - Record Set\DOF - Civil\101585.01 - 18C1.0 CONTAINMENT WALL ALIGNMENT PLAN

BINDING EDGE



LEGEND

- DIRECT PUSH BORING LOCATION (DP-XX)
- HOLLOW-STEM AUGER BORING LOCATION (DOF-BXX)
- TURNING POINT LOCATION (TP-XX)
- PROPOSED CONTAINMENT WALL ALIGNMENT
- CONTAINMENT WALL ALIGNMENT STATIONING
- PARCEL BOUNDARY
- EXISTING SHEET PILE WALL
- EXISTING FENCE
- MAJOR ELEVATION CONTOUR (5' INTERVAL)
- MINOR ELEVATION CONTOUR (1' INTERVAL)
- PROPOSED SILT FENCE

TURNING POINT (TP) COORDINATES

| TP | X | Y |
|----|------------|-----------|
| 01 | 1175275.79 | 710600.22 |
| 02 | 1175171.16 | 710694.33 |
| 03 | 1175010.51 | 710700.02 |
| 04 | 1175017.93 | 710846.31 |
| 05 | 1175006.47 | 710858.40 |
| 06 | 1174868.35 | 710860.33 |
| 07 | 1174880.91 | 711233.79 |
| 08 | 1175004.53 | 711233.81 |
| 09 | 1175117.39 | 711249.31 |
| 10 | 1175525.18 | 710867.05 |
| 11 | 1175331.86 | 710660.21 |
| 12 | 1175294.61 | 710662.06 |
| 13 | 1175292.52 | 710618.11 |

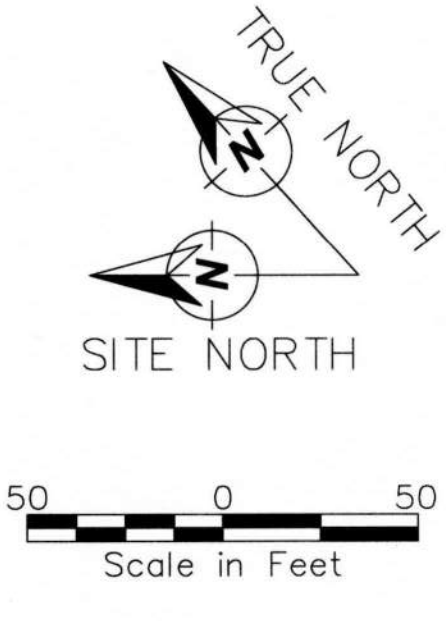
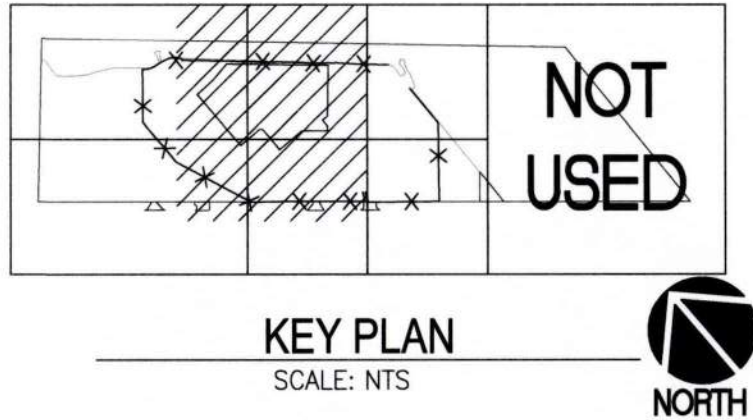
DOF BORING (DOF-BXX) COORDINATES

| DOF | X | Y |
|---------|------------|-----------|
| DOF-B1 | 1175275.46 | 710599.84 |
| DOF-B2 | 1175181.39 | 710685.12 |
| DOF-B3 | 1175011.81 | 710725.48 |
| DOF-B4 | 1175017.78 | 710843.23 |
| DOF-B5 | 1174887.59 | 710860.06 |
| DOF-B6 | 1174872.20 | 710974.57 |
| DOF-B7 | 1174877.19 | 711123.06 |
| DOF-B8 | 1174903.25 | 711233.82 |
| DOF-B9 | 1175047.29 | 711239.70 |
| DOF-B10 | 1175167.68 | 711202.38 |
| DOF-B11 | 1175271.98 | 711104.92 |
| DOF-B12 | 1175374.75 | 711006.73 |
| DOF-B13 | 1175481.48 | 710908.99 |
| DOF-B14 | 1175469.57 | 710807.55 |
| DOF-B15 | 1175374.62 | 710705.96 |

DP BORING POINT (DP) COORDINATES

| DP | X | Y |
|-------|------------|-----------|
| DP-01 | 1175246.20 | 710626.83 |
| DP-02 | 1175209.03 | 710660.27 |
| DP-03 | 1175129.29 | 710695.81 |
| DP-04 | 1175050.74 | 710698.60 |
| DP-05 | 1175013.60 | 710760.96 |
| DP-06 | 1175015.77 | 710803.73 |
| DP-07 | 1174976.03 | 710858.83 |
| DP-08 | 1174926.03 | 710859.53 |
| DP-09 | 1174869.43 | 710892.22 |
| DP-10 | 1174870.87 | 710935.08 |
| DP-11 | 1174873.80 | 711022.16 |
| DP-12 | 1174875.55 | 711074.20 |
| DP-13 | 1174878.34 | 711157.42 |
| DP-14 | 1174880.03 | 711207.39 |
| DP-15 | 1174949.55 | 711233.80 |
| DP-16 | 1174999.31 | 711233.81 |
| DP-17 | 1175083.67 | 711244.68 |
| DP-18 | 1175133.78 | 711233.94 |
| DP-19 | 1175201.71 | 711170.27 |
| DP-20 | 1175238.19 | 711136.07 |
| DP-21 | 1175304.03 | 711074.36 |
| DP-22 | 1175342.69 | 711038.12 |
| DP-23 | 1175410.61 | 710974.45 |
| DP-24 | 1175447.08 | 710940.27 |
| DP-25 | 1175511.33 | 710880.04 |
| DP-26 | 1175498.83 | 710838.85 |
| DP-27 | 1175438.39 | 710774.19 |
| DP-28 | 1175404.25 | 710737.66 |
| DP-29 | 1175337.75 | 710666.42 |
| DP-30 | 1175293.71 | 710643.18 |

- NOTES**
- CONTAINMENT WALL SHALL BE CONSTRUCTED ALONG THE CONTAINMENT WALL ALIGNMENT AS SHOWN TO THE DEPTHS SHOWN IN THE PROFILES ON SHEETS C1.6 AND C1.7.
 - EXTEND CONTAINMENT WALL AT LEAST 30 INCHES HORIZONTALLY BEYOND ALL CORNERS. CONTAINMENT WALL SHALL INTERSECT AT THE TURNING POINTS SHOWN.
 - THE MIXING/STAGING AREA SHALL BE LOCATED WITHIN THE PERIMETER OF THE CONTAINMENT WALL ALIGNMENT SHOWN ON THIS SHEET.
 - CONTAINMENT WALL ALIGNMENT SHALL BE PRELOADED PRIOR TO INSTALLATION OF THE CONTAINMENT WALL. SEE SHEET C1.1 FOR PRELOAD REQUIREMENTS.
 - CONSTRUCT BERMS PER SHEET C1.4 PRIOR TO CONTAINMENT WALL INSTALLATION.



6697

C1.0

SH #18 OF #44

ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL ALIGNMENT PLAN

CONTRACT/CONS: PA00000403

M. ID: 101585.01

PHASE: FOR BID

TOWNSHIP: 21N

DAT-HRZ: WA83/2011

PARCEL: 0321351053

SECTION: 36

RANGE: 3E

VERT: MLLW 15.73' @ POT MON #178

DRAWING SCALE: AS NOTED

PRINTED BY: kregley Jul 29, 2026

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

APPROVED: *John Harold Olson*

R. WEBB 07/29/26

CHECKED BY: TLOUVERE 07/29/26

DIRECTOR ENG. DATE: PROJ. ENGR. DATE

DATE: 07/29/26

BY: [Signature]

REVISION: [Signature]

APPR: [Signature]

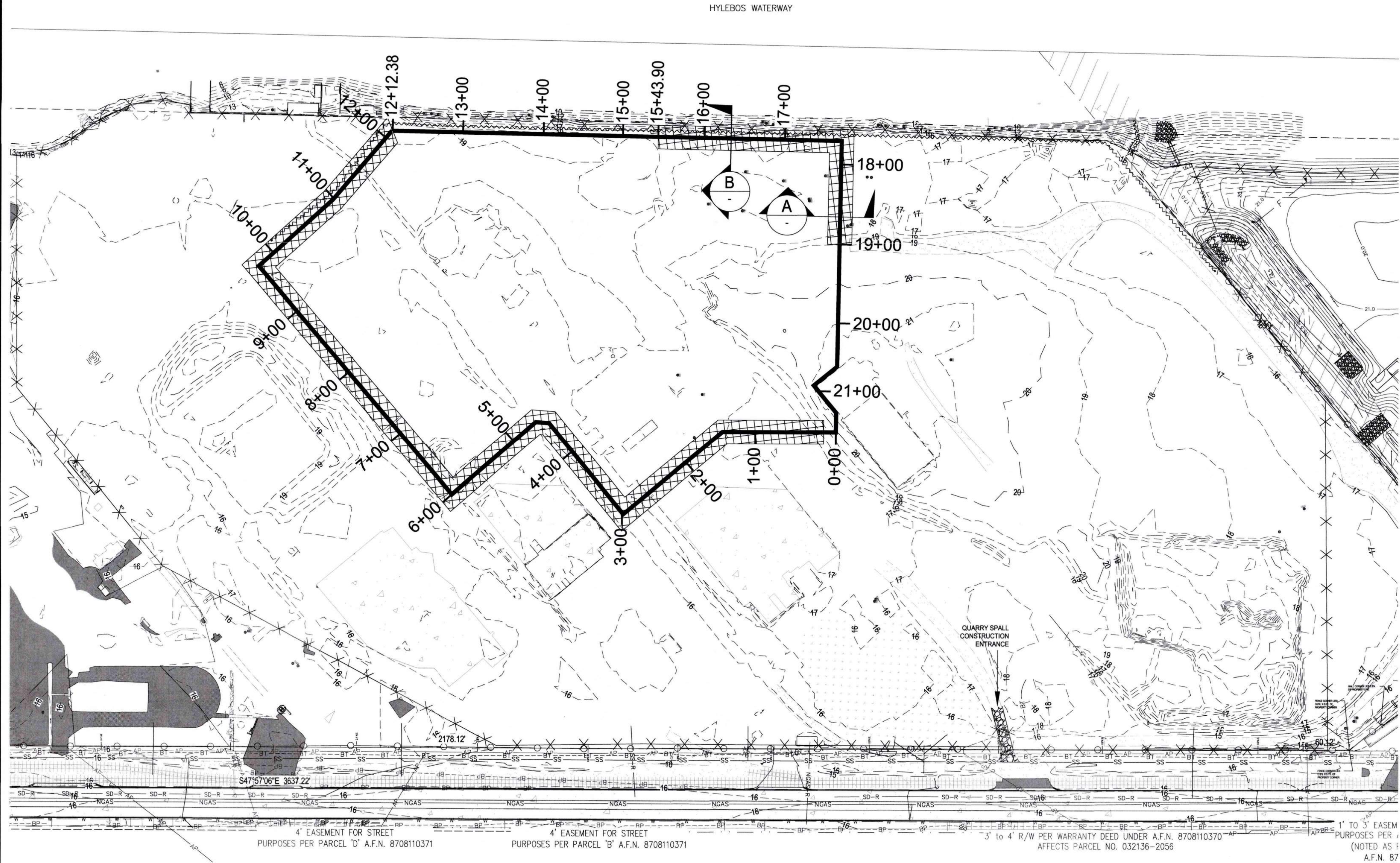
Port of Tacoma

P.O. BOX 1807 TACOMA, WA 98401 (253)835-8641

DOF

DALTON FUGLEVAND

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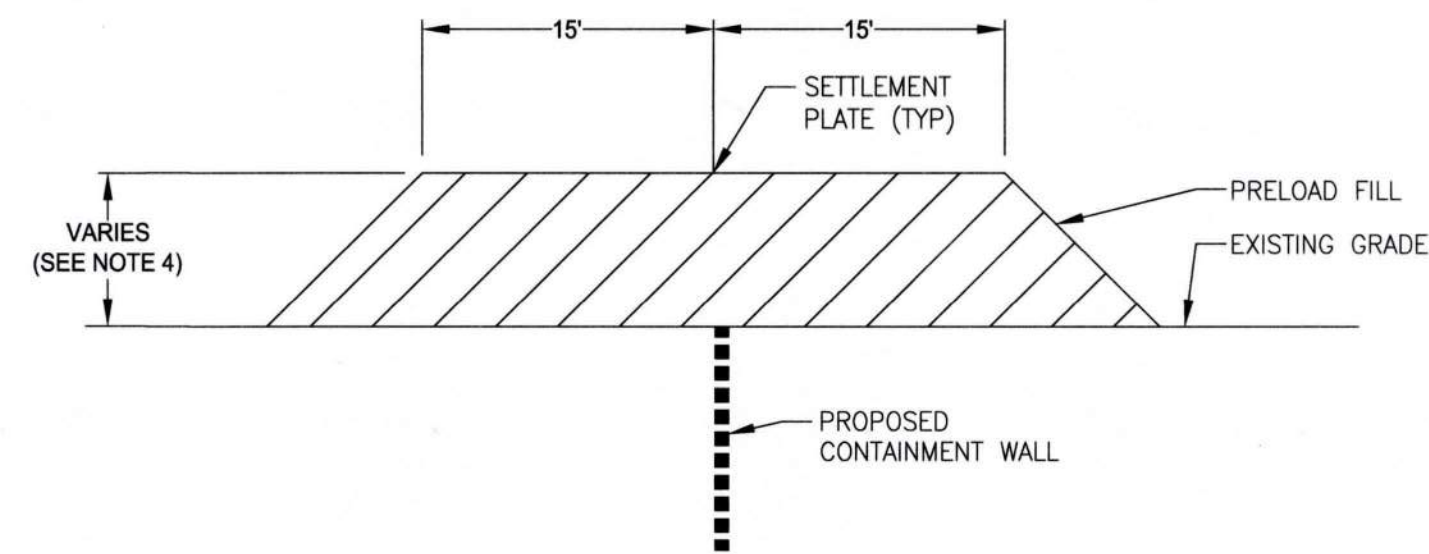
LEGEND

- | | | | |
|----------------------------|---|------------------------|-------------------------------|
| ⊙ SANITARY SEWER MANHOLE | ⊠ POWER METER | ⊙ LIGHT POLE | — PARCEL LINE |
| ⊙ STORM MANHOLE | ⊠ POWER CABINET | ⊙ TELECOM RISER | — ROAD CENTERLINE |
| ⊠ STORM CATCH BASIN | ⊙ UTILITY POLE | ⊠ TELECOM VAULT | — RIGHT OF WAY LINE |
| ⊙ STORM CULVERT | ⊙ UTILITY POLE WITH DROP(S) | ⊠ TELECOM JUNCTION BOX | — EASEMENT LINE |
| ⊙ WATER MANHOLE | ⊙ GUY ANCHOR | ⊠ UTILITY VAULT | — SD — STORM DRAIN LINE |
| ⊙ WATER VALVE | ⊠ JUNCTION BOX | ⊙ UTILITY MANHOLE | — SD-R — RECORD STORM LINE |
| ⊙ WATER METER | ⊠ POWER VAULT | ⊙ UNKNOWN STAND PIPE | — SS — SANITARY SEWER LINE |
| ⊙ FIRE HYDRANT | ⊠ TAX PARCEL NUMBER | ⊙ UNKNOWN VALVE | — SS-R — RECORD SANITARY LINE |
| ⊙ IRRIGATION CONTROL VALVE | — XXX — DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE | ⊙ UNKNOWN RISER | — W — BURIED WATER LINE |
| ⊙ GAS VALVE | | ⊙ COLUMN | — W-R — RECORD WATER LINE |
| ⊙ GAS RISER | | ⊙ BOLLARD | — NGAS — BURIED GAS LINE |
| | | ⊙ SIGN | — NGAS-R — RECORD GAS LINE |
| | | ⊙ MAILBOX | — BP — BURIED POWER LINE |
| | | ⊙ ECOLOGY BLOCK | — BP-R — RECORD BURIED POWER |
| | | ⊙ RAILROAD SWITCH | — AP — OVERHEAD POWER LINE |
| | | ⊙ MONITORING WELL | — BT — BURIED TELECOM LINE |
| | | | — BT-R — RECORD TELECOM LINE |
| | | | — — CHAIN LINK FENCE |

- | | |
|---------------------------------------|--|
| ASPHALT SURFACE | SHEARWALL/SHEET PILE WALL PER 2004 MAPPING |
| CONCRETE SURFACE | RAILROAD TRACKS |
| RIP-RAP SURFACE | WETLAND DELINEATION |
| WETLAND AREA | |
| EASEMENT | |
| GRASS | |
| PRELOAD AREA | |
| SILT FENCE | |
| PROPOSED CONTAINMENT WALL ALIGNMENT | |
| MAJOR ELEVATION CONTOUR (5' INTERVAL) | |
| MINOR ELEVATION CONTOUR (1' INTERVAL) | |

NOTES

- APPROXIMATELY 5,700 CUBIC YARDS OF DREDGE SPOILS ARE CURRENTLY STOCKPILED ON SITE FOR USE AS PRELOAD MATERIAL.
- HATCHED AREA OF PRELOAD MAY VARY BASED ON PRELOAD ELEVATION.



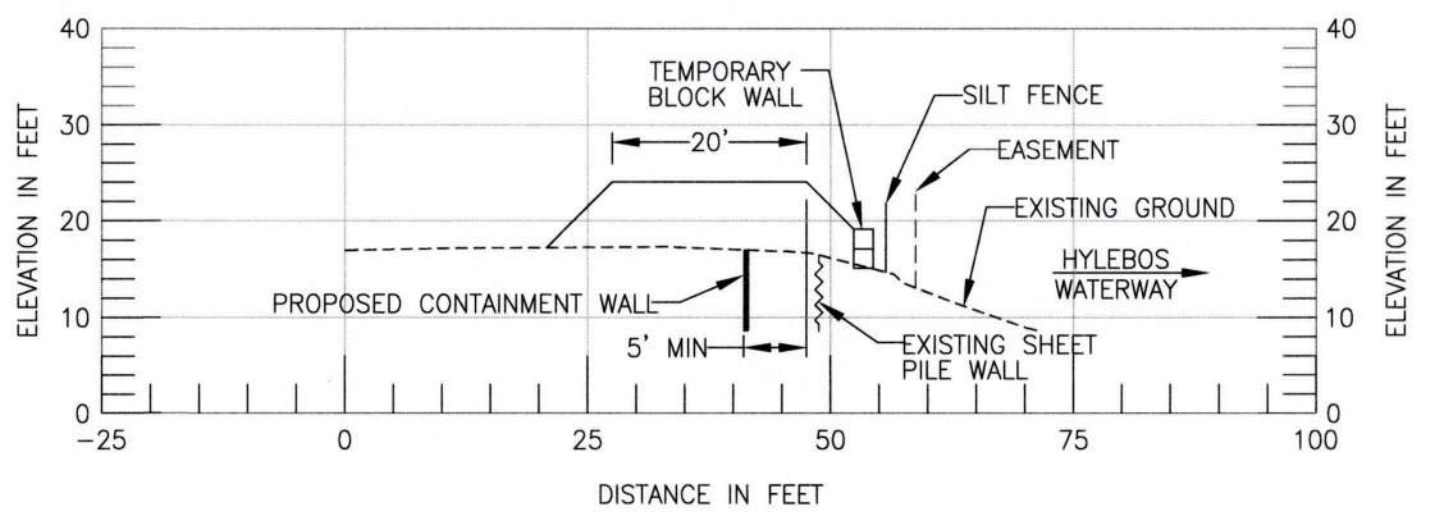
DETAIL A NOTES

- PRELOAD DIMENSIONS SHOWN ABOVE ASSUME A MINIMUM MOIST UNIT WEIGHT OF 120 PCF. THIS UNIT WEIGHT CAN BE OBTAINED BY COMPACTING IMPORT STRUCTURAL FILL WITH CONSTRUCTION EQUIPMENT TRAFFIC. SIDE SLOPES SHOULD BE 1:1 OR FLATTER.
- THE ESTIMATED PRELOAD DURATION IS 2 MONTHS. THE CONTAINMENT WALL ALIGNMENT CAN BE PRELOADED IN SEGMENTS. THE RECOMMENDED MINIMUM SEGMENT LENGTH IS 120 FT.
- THE FIRST PRELOAD SEGMENT SHOULD BE SURVEY MONITORED EVERY OTHER WEEK TO MEASURE SETTLEMENT. THE DATA MAY BE USED TO ADJUST FUTURE PRELOAD DURATIONS. SETTLEMENT PLATES PER SECTION 9.5.2.2.1 OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION GEOTECHNICAL DESIGN MANUAL SHOULD BE PLACED AT THE CENTER OF THE PRELOAD FILL EVERY 30 FT.
- FOR PRELOAD ELEVATION HEIGHTS, SEE SHEET C1.2 AND C1.3.

A

TYPICAL PRELOAD SECTION

SCALE: NTS



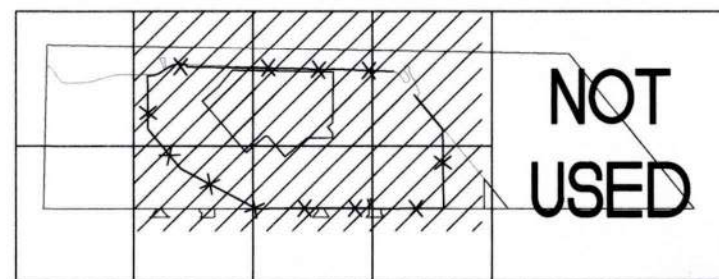
DETAIL B NOTES

- PRELOAD DIMENSIONS SHOWN ABOVE ASSUME A MINIMUM MOIST UNIT WEIGHT OF 120 PCF. THIS UNIT WEIGHT CAN BE OBTAINED BY COMPACTING IMPORT STRUCTURAL FILL WITH CONSTRUCTION EQUIPMENT TRAFFIC. SIDE SLOPES SHOULD BE 1:1 OR FLATTER.
- THE ESTIMATED PRELOAD DURATION IS 2 MONTHS. THE CONTAINMENT WALL ALIGNMENT CAN BE PRELOADED IN SEGMENTS. THE RECOMMENDED MINIMUM SEGMENT LENGTH IS 120 FT.
- THE FIRST PRELOAD SEGMENT SHOULD BE SURVEY MONITORED EVERY OTHER WEEK TO MEASURE SETTLEMENT. THE DATA MAY BE USED TO ADJUST FUTURE PRELOAD DURATIONS. SETTLEMENT PLATES PER SECTION 9.5.2.2.1 OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION GEOTECHNICAL DESIGN MANUAL SHOULD BE PLACED AT THE CENTER OF THE PRELOAD FILL EVERY 30 FT.
- TEMPORARY BLOCK WALL DESIGN AND CONSTRUCTION SHOULD BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PRELOAD FILL ELEVATION SHALL BE 23 FT MLLW OR HIGHER.

B

TYPICAL PRELOAD SECTION
ALONG HYLEBOS WATERWAY

SCALE: NTS



KEY PLAN
SCALE: NTS



Scale in Feet
80 0 80



APPROVED: R. WEBB 07/29/26

CHECKED BY: DATE

TLOUVIERE 07/29/26

PROJ. ENGR. DATE

PRINTED BY: kbeigley Jul 29, 2026

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
PRELOAD PLAN AND DETAIL

6697

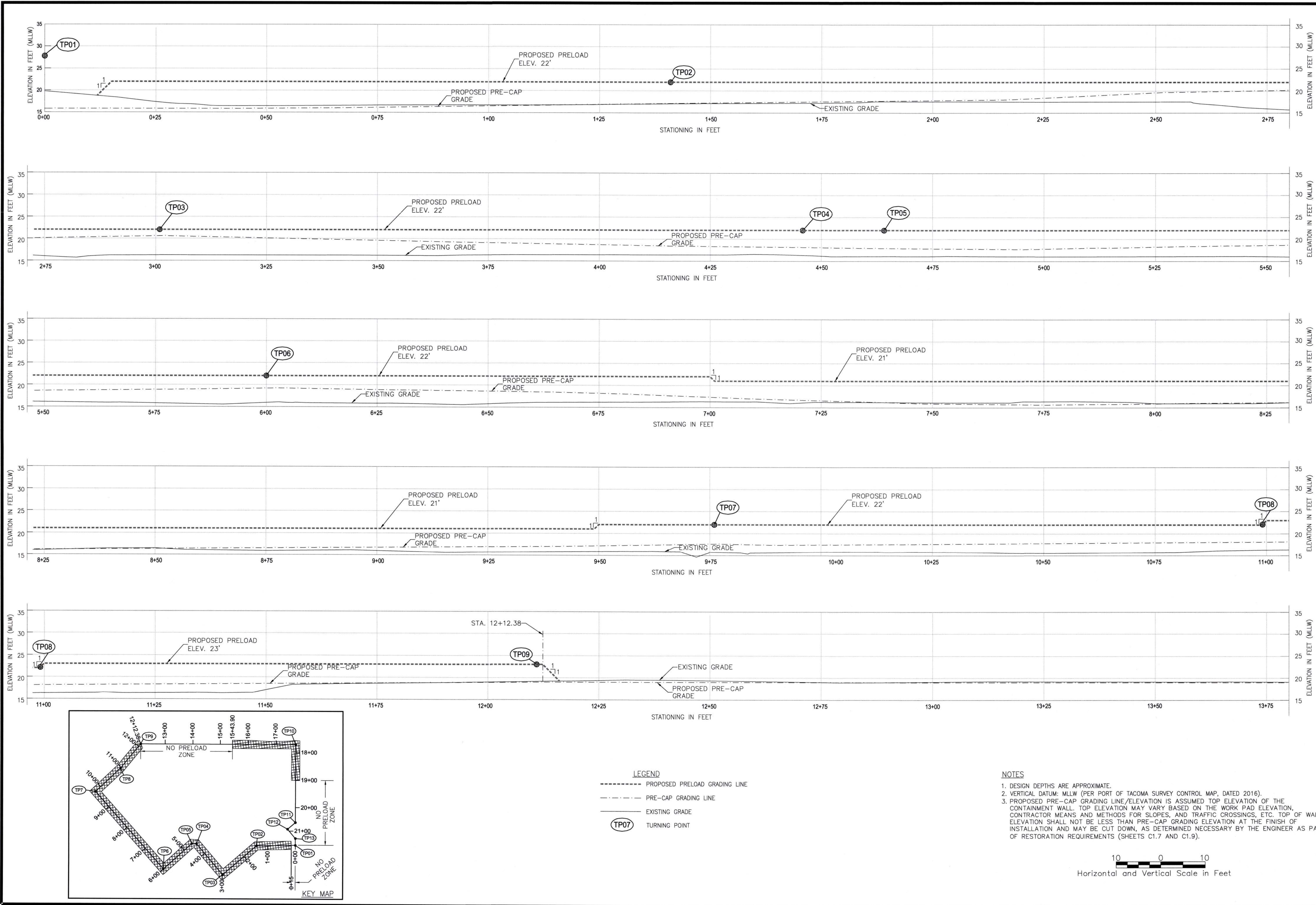
C1.1
SH #19 OF #44

CONTRACT/CONS: PA00000403

M. ID: 101585.01

PHASE: FOR BID

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Port of Tacoma
P.O. BOX 1807 TACOMA, WA 98401 (253)383-5844

DALTON FUGLEVAND
OLMSTED

| | | |
|---------------------|--|----------------|
| APPROVED: | R. WEBB | 07/29/26 |
| CHECKED BY: | T. LOUVIERE | DATE: 07/29/26 |
| DIRECTOR ENG. DATE: | PROJ. ENGR. DATE: | |
| PRINTED BY: | kbegeley Jul 29, 2026 | |
| PORT ADDRESS: | ONE SITCUM PLAZA TACOMA, WA 98401-1837 | |

6697

C1.2

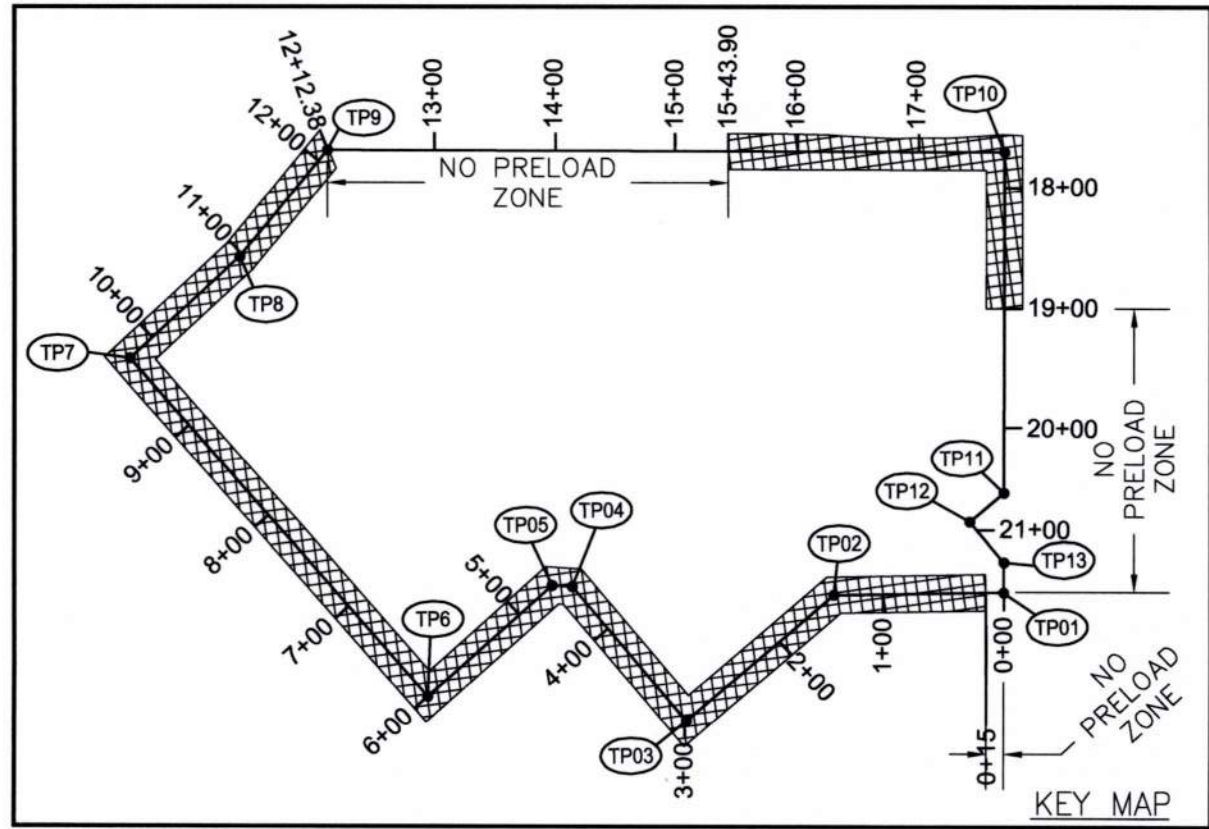
SH #20 OF #44

ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL

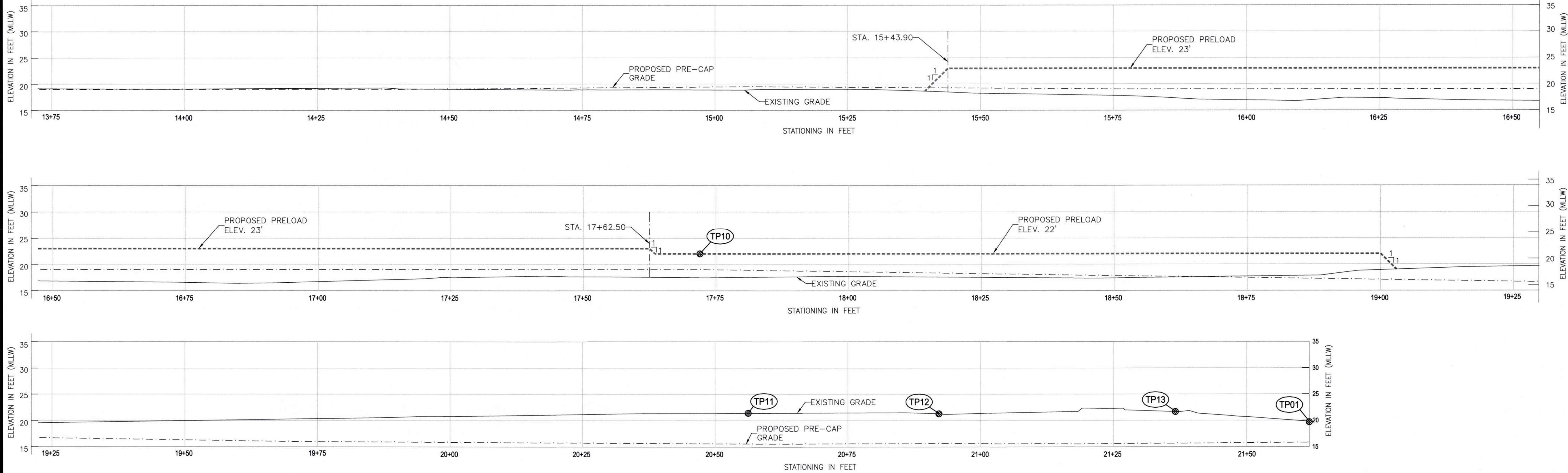
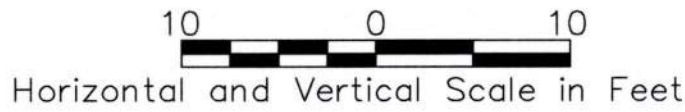
PRELOAD PROFILE 1 (STA 0+00 TO 13+75)

| | | | | | | | |
|------------|-------------|-----------|------------|----------------|-------------|--------------|----|
| CONT/CONS: | PA000000403 | TOWNSHIP: | 21N | RANGE: | 3E | SECTION: | 36 |
| M. ID: | 101585.01 | DAT-HRZ: | WA83/2011 | VERT: | MLLW 15.73' | POT MON #178 | |
| PHASE: | FOR BID | PARCEL: | 0321351053 | DRAWING SCALE: | AS NOTED | | |



- LEGEND**
- PROPOSED PRELOAD GRADING LINE
 - - - - - PRE-CAP GRADING LINE
 - EXISTING GRADE
 - (TP07) TURNING POINT

- NOTES**
- DESIGN DEPTHS ARE APPROXIMATE.
 - VERTICAL DATUM: MLLW (PER PORT OF TACOMA SURVEY CONTROL MAP, DATED 2016).
 - PROPOSED PRE-CAP GRADING LINE/ELEVATION IS ASSUMED TOP ELEVATION OF THE CONTAINMENT WALL. TOP ELEVATION MAY VARY BASED ON THE WORK PAD ELEVATION, CONTRACTOR MEANS AND METHODS FOR SLOPES, AND TRAFFIC CROSSINGS, ETC. TOP OF WALL ELEVATION SHALL NOT BE LESS THAN PRE-CAP GRADING ELEVATION AT THE FINISH OF INSTALLATION AND MAY BE CUT DOWN, AS DETERMINED NECESSARY BY THE ENGINEER AS PART OF RESTORATION REQUIREMENTS (SHEETS C1.7 AND C1.9).



| | | | | | | | | |
|--------------------------------------|---|--------------------|----------------------------------|--------------------|------------------------------|--------------------|--------------------------------|----------|
| 6697
C1.3
SH #21 OF #44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
PRELOAD PROFILE 2 (STA 13+75 TO 21+68.8) | | | | APPROVED: <i>[Signature]</i> | | R. WEBB | 07/29/26 |
| | CONTRACT/CONS: PA000000403 | TOWNSHIP: 21N | RANGE: 3E | SECTION: 36 | DIRECTOR ENG. DATE | PROJ. ENGR. DATE | T. LOUVIERE | 07/29/26 |
| | M. ID: 101585.01 | DAT-HRZ: WA83/2011 | VERT: MLLW 15.73' @ POT MON #178 | PARCEL: 0321351053 | PRINTED BY: kbegey | DATE: Jul 29, 2026 | PORT ADDRESS: ONE SITCUM PLAZA | |
| | PHASE: FOR BID | | | | | | TACOMA, WA 98401-1837 | |

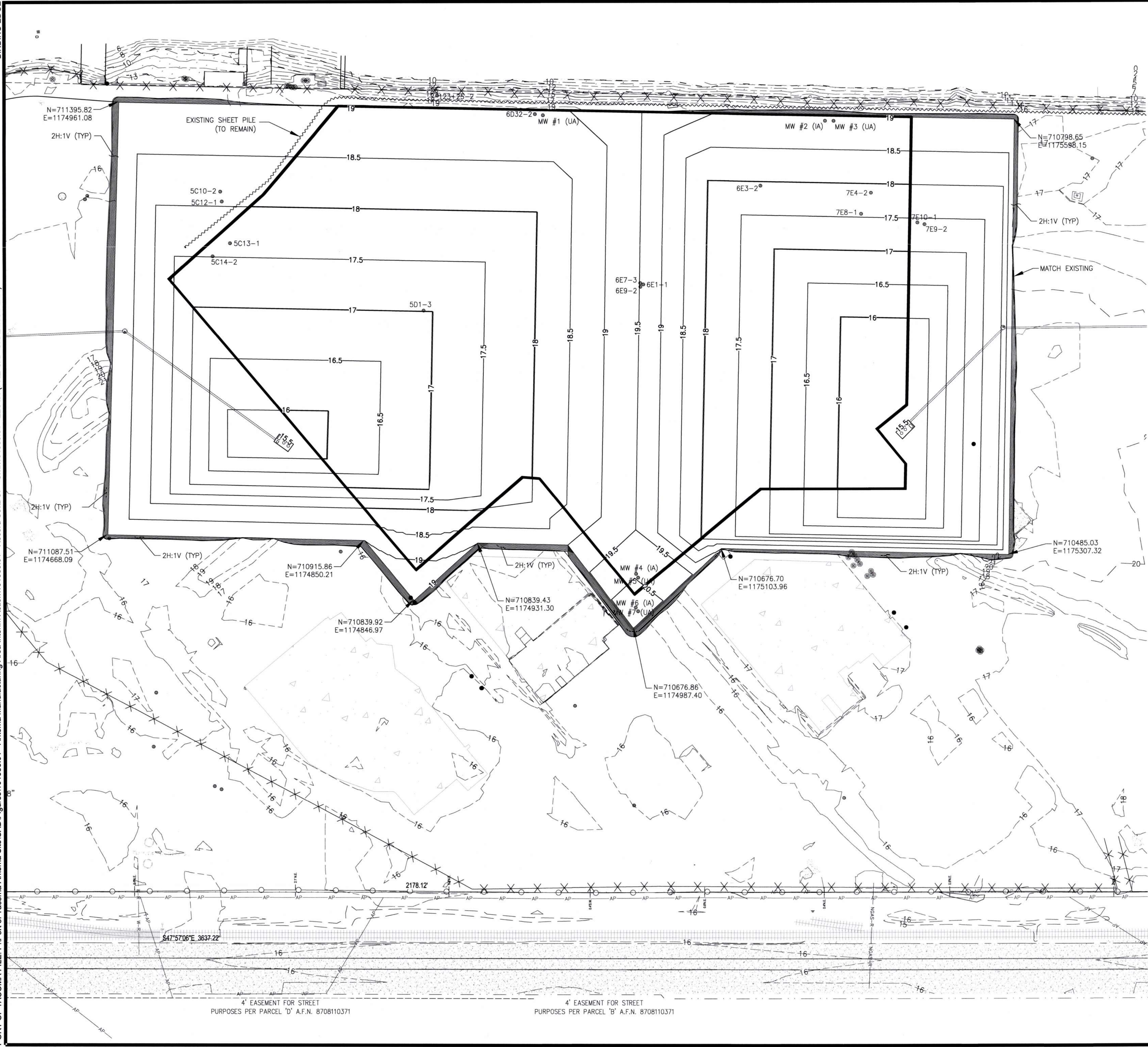


DOF DALTON OLMSTED FUGLEVAND

Port of Tacoma
P.O. BOX 1887 TACOMA, WA 98401 (206)883-5841

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

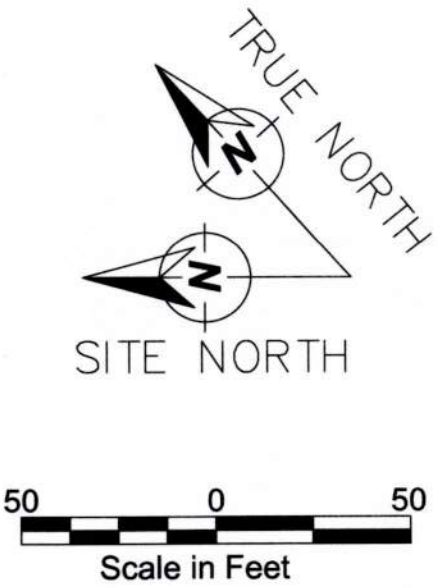
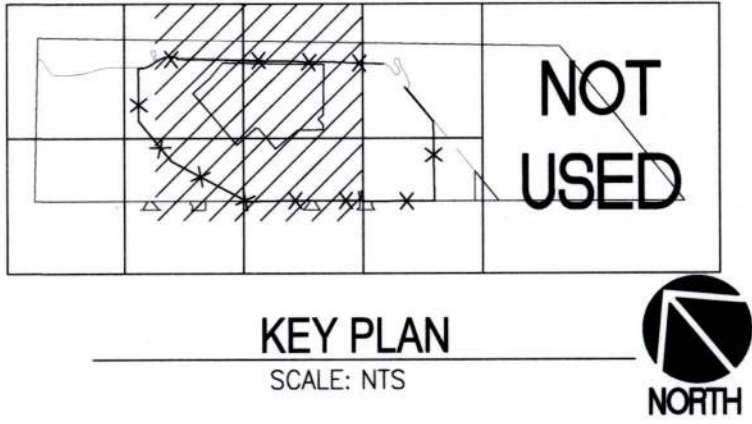
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LEGEND

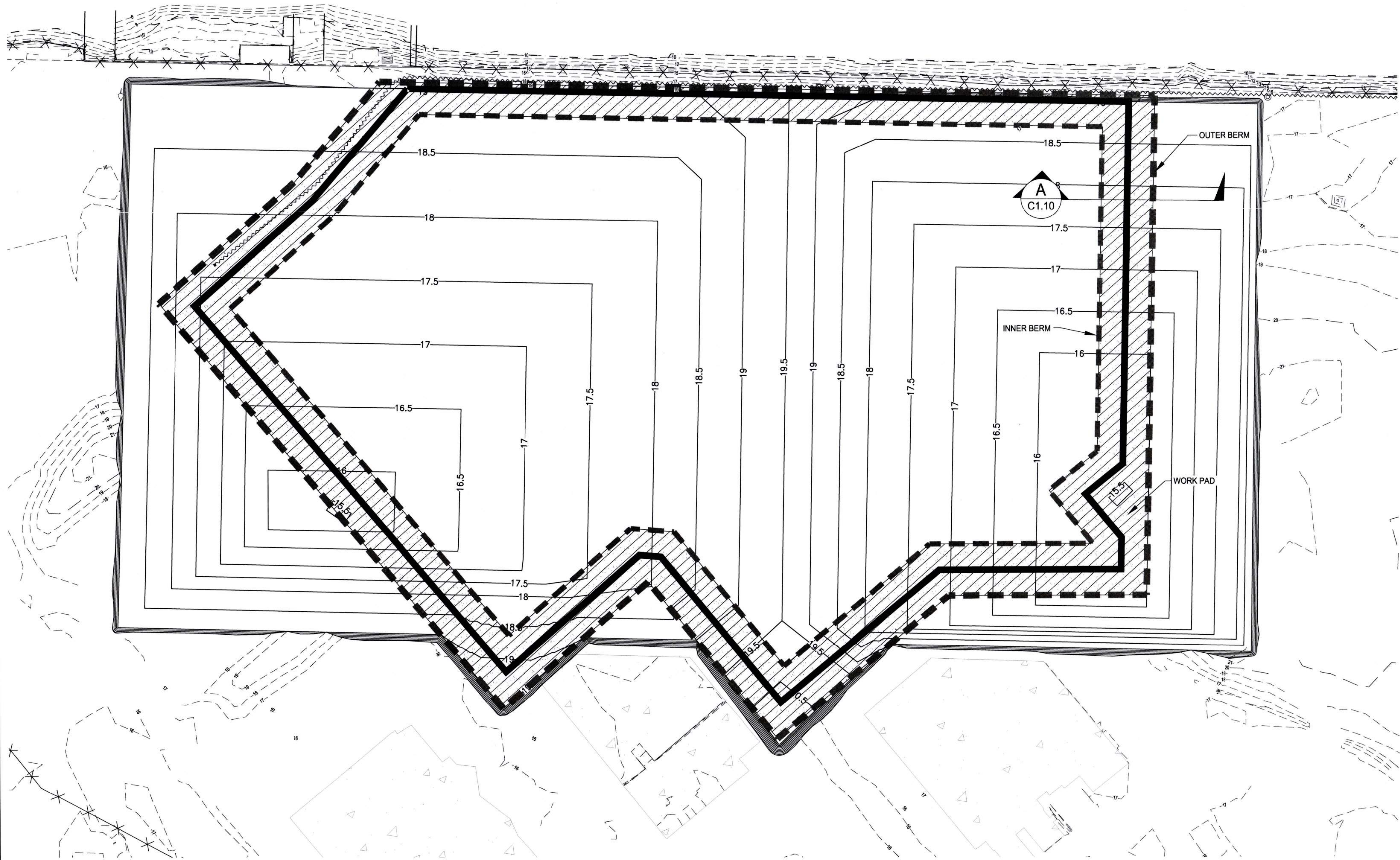
| | | | |
|-----|---|-----|--|
| ○ | SANITARY SEWER MANHOLE | --- | PARCEL LINE |
| ○ | UTILITY CLEAN OUT | --- | ROAD CENTERLINE |
| ⊕ | STORM MANHOLE | --- | RIGHT OF WAY LINE |
| ⊕ | STORM CATCH BASIN | --- | OVERHEAD POWER LINE |
| ⊕ | STORM CULVERT | --- | CHAIN LINK FENCE |
| ⊕ | WATER MANHOLE | --- | RAILROAD TRACKS |
| ⊕ | WATER VALVE | --- | WETLAND DELINEATION |
| ⊕ | WATER METER | --- | SHEARWALL/SHEET PILE WALL PER 2004 MAPPING |
| ⊕ | FIRE HYDRANT | --- | CONCRETE SURFACE |
| ⊕ | IRRIGATION CONTROL VALVE | --- | WETLAND AREA |
| ⊕ | GAS VALVE | --- | EASEMENT |
| ⊕ | GAS RISER | --- | PROPOSED CONTAINMENT WALL ALIGNMENT |
| ⊕ | POWER METER | --- | PROPOSED CONTOUR |
| ⊕ | POWER CABINET | --- | PROPOSED SILT FENCE |
| ⊕ | UTILITY POLE | --- | MAJOR ELEVATION CONTOUR (5' INTERVAL) |
| ⊕ | UTILITY POLE WITH DROP(S) | --- | MINOR ELEVATION CONTOUR (1' INTERVAL) |
| ⊕ | GUY ANCHOR | --- | |
| ⊕ | JUNCTION BOX | --- | |
| ⊕ | POWER VAULT | --- | |
| ⊕ | LIGHT POLE | --- | |
| ⊕ | COLUMN | --- | |
| ⊕ | BOLLARD | --- | |
| ⊕ | RAILROAD SWITCH | --- | |
| ⊕ | MONITORING WELL | --- | |
| --- | DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE | --- | |

- NOTES**
- GRADING OUTSIDE OF THE CONTAINMENT WALL ALIGNMENT SHALL PROMOTE DRAINAGE TOWARD TEMPORARY TV STRUCTURES.
 - ALL PRE-CAP SURFACES SHALL BE ROLLED WITH A VIBRATORY DRUM COMPACTOR (CATERPILLAR CS12 SMOOTH DRUM ROLLER OR EQUIVALENT) PRIOR TO PLACEMENT OF PVC LINER OR FINAL GRADING MATERIAL EXCEPT WITHIN 20 FEET OF THE CONTAINMENT WALL. WITHIN 20 FEET OF THE CONTAINMENT WALL CONTRACTOR SHALL STATIC ROLL GRADED SURFACES, AS DIRECTED BY ENGINEER. COMPACTION WITHIN 5 FEET OF THE CONTAINMENT WALL SHALL BE PERFORMED WITH A WACKER NEUSON WP1550AW PLATE COMPACTOR OR EQUIVALENT AS APPROVED BY THE ENGINEER. PROVIDE MINIMUM 8" LOOSE LIFT PRIOR TO ANY COMPACTION DIRECTLY OVER CONTAINMENT WALL. HEAVY EQUIPMENT SHALL NOT COME WITHIN 5 FEET OF THE CONTAINMENT WALL ONCE INSTALLED, EXCEPT AT DESIGNATED WALL CROSSINGS.
 - GRADED SURFACE SHALL NOT CONTAIN AGGREGATES LARGER THAN 2-INCH EXTENDING FROM THE SURFACE GREATER THAN 1-INCH.
 - PROPOSED STORMWATER INFRASTRUCTURE DETAILED ON SECTION C2.0 DRAWINGS.
 - IF EXISTING SHEET PILE WALL IS EXPOSED AS PART OF PRE-CAP GRADING, CONTRACTOR SHALL CUT THE TOP OF THE EXISTING SHEET PILE WALL 1 FOOT BELOW PRE-CAP GRADING ELEVATIONS.
 - WELLS SHOWN WITHIN THE PRE-CAP GRADING AREA SHALL BE PROTECTED.
 - SEE EARTHWORK SPECIFICATION FOR RESTRICTIONS ON MOVEMENT OF SOILS INSIDE AND OUTSIDE OF THE CONTAINMENT WALL ALIGNMENT.

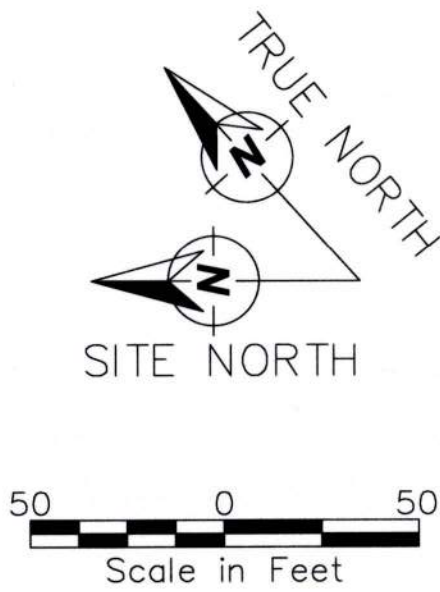
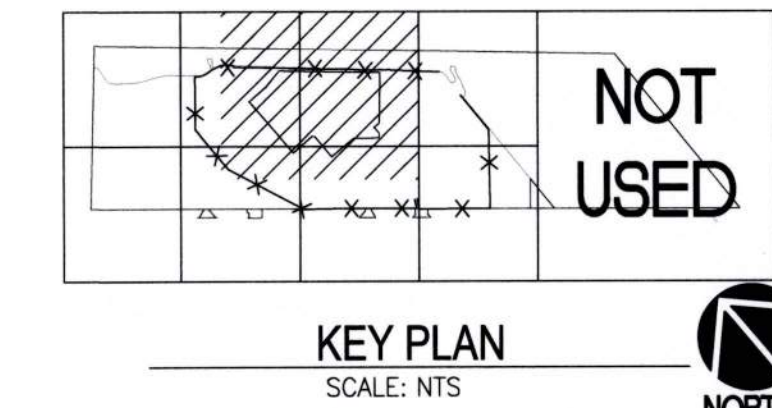


| | | | | | | |
|--------------------------------------|---|------------------------------|----------------|----------------------------------|-------------------------|--------------------|
| 6697
C1.4
SH #22 OF #44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
PRE-CAP GRADING PLAN | APPROVED: <i>[Signature]</i> | R. WEBB | 07/29/26 | CHECKED BY: T. LOUVIERE | 07/29/26 |
| | | DIRECTOR: <i>[Signature]</i> | DATE: 07/29/26 | PROJECT: ARKEMA | DATE: 07/29/26 | |
| CONTRACT/CONS: PA000000403 | | TOWNSHIP: 21N | | RANGE: 3E | | SECTION: 36 |
| M. ID: 101585.01 | | DATE-HRZ: WA83/2011 | | VERT: MLLW 15.73' @ POT MON #178 | | PARCEL: 0321351053 |
| PHASE: FOR BID | | DRAWING SCALE: AS NOTED | | TACOMA, WA 98401-1837 | | |

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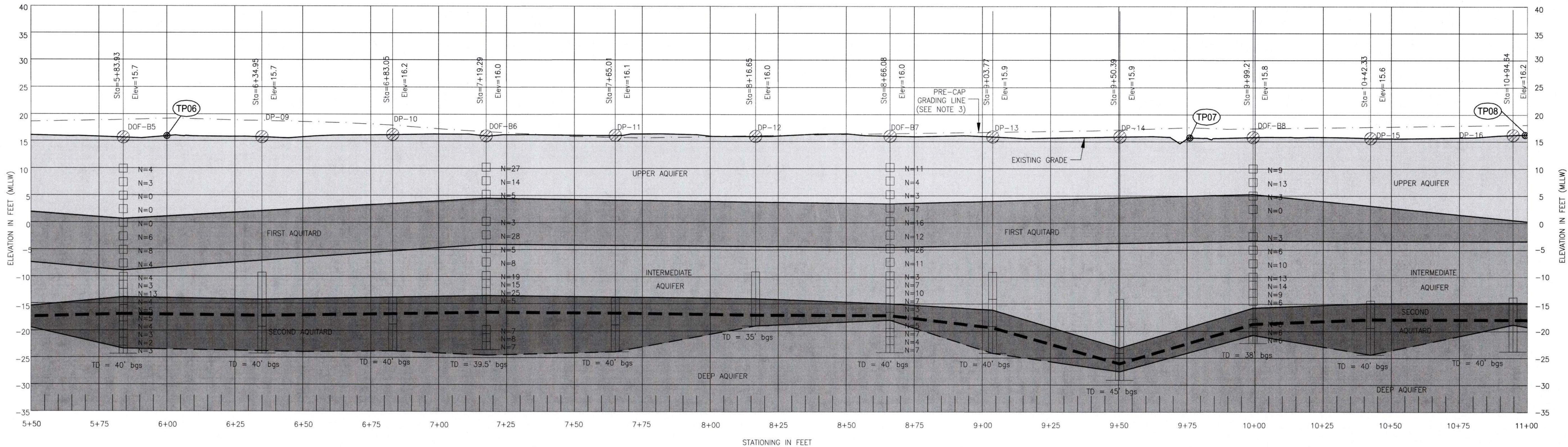
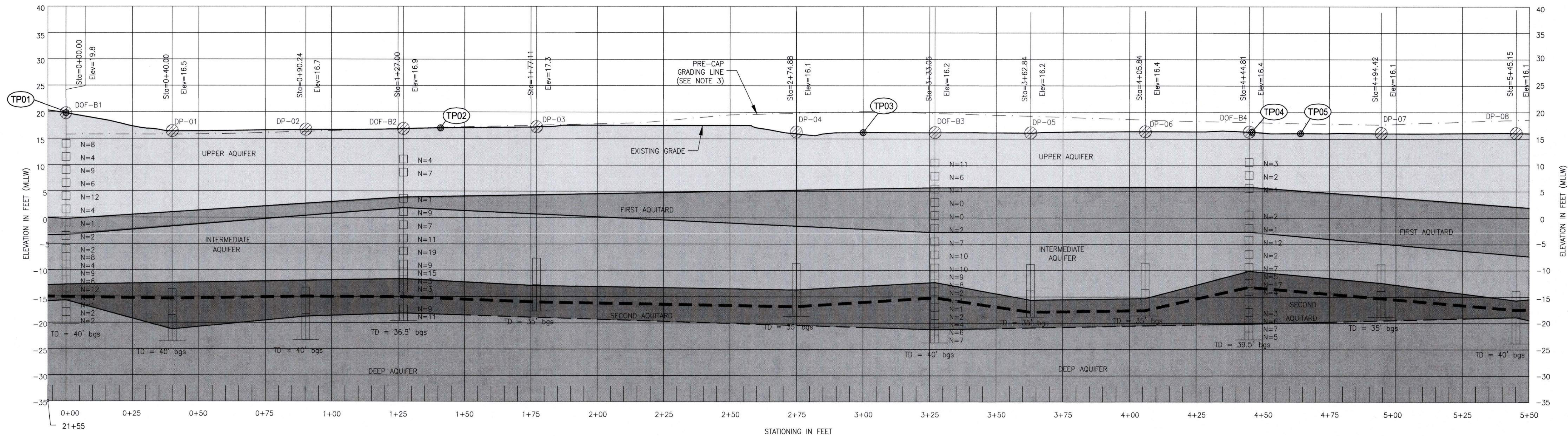


- LEGEND**
- SHEARWALL/SHEET PILE WALL PER 2004 MAPPING
 - WETLAND DELINEATION
 - SILT FENCE
 - PROPOSED CONTAINMENT WALL ALIGNMENT
 - OUTER BERM
 - INNER BERM
 - PROPOSED CONTOUR
 - EXISTING MAJOR ELEVATION CONTOUR (5' INTERVAL)
 - EXISTING MINOR ELEVATION CONTOUR (1' INTERVAL)
 - CONCRETE SURFACE
 - GRAVEL SURFACE
 - WETLAND AREA
 - WORK PAD



- NOTES**
- OUTER BERM CONSTRUCTED PRIOR TO WALL CONSTRUCTION AND PRESENT UNTIL WALL CONSTRUCTION IS COMPLETE. INNER BERM SHALL MOVE WITH CONSTRUCTION.
 - WORK PAD DIMENSIONS TO BE DETERMINED BY CONTRACTOR AS DEEMED NECESSARY FOR COMPLETION OF THE WORK. CONTRACTOR SHALL DETERMINE SUPPORT MATERIALS AND METHOD FOR REVIEW BY THE ENGINEER.
 - CONTRACTOR SHALL ESTABLISH THE LAYOUT AND DIMENSIONS OF THE MIXING/STAGING AREA(S) IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - A. A MINIMUM FREE-BOARD OF 1-FOOT SHALL BE PROVIDED FOR ALL FACILITIES USED TO PREPARE AND/OR STORE ANY LIQUID OR SLURRY INCLUDING ACTIVE CONTAINMENT WALL INSTALLATION AREA.
 - B. A CONTAINMENT BERM SHALL BE CONSTRUCTED AROUND EACH AREA USED TO PREPARE AND/OR STORE ANY LIQUID OR SLURRY.
 - C. CONTAINMENT BERMS SHALL BE CONSTRUCTED FROM COMPACTED FILL AND BE AT LEAST 1.5-FOOT HIGH WITH A MINIMUM CREST WIDTH OF 1-FOOT.
 - D. PROVIDE A 40-FOOT OFFSET FROM THE CONTAINMENT WALL ALIGNMENT FOR CONTAINMENT BERMS AND ENSURE THEY COMPLETELY ENCOMPASS THE ACTIVE WORKING AREA.
 - CONTRACTOR TO IDENTIFY LOCATION OF TEST SECTION ALONG CONTAINMENT WALL ALIGNMENT PER SPECIFICATION 31 56 13.
 - NOTIFY ENGINEER IF ACTIVE UTILITY IS ENCOUNTERED DURING IMPLEMENTATION OF THE WORK.
 - SEE SHEETS C1.6 AND C1.7 FOR SOIL PROFILES.

| | | | | | |
|--------------------------------------|--|--------------------|--------------------------------------|-----------------|--|
| 6697
C1.5
SH #23 OF #44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL | | DOF DALTON OLMS TED FUGLEVAND | | Port of Tacoma
P.O. BOX 487 TACOMA, WA 98401 (253)395-5641
APPR: DATE: |
| | STORMWATER DIVERSION BERM CONSTRUCTION | | | | |
| CONT/CONS: PA000000403 | TOWNSHIP: 21N | RANGE: 3E | SECTION: 36 | MARK: REVISION: | BY: |
| M. ID: 101585.01 | DAT-HRZ: WA83 (2011) VERT: MLLW 15.73' @ POT MON #178 | PARCEL: 0321351053 | DRAWING SCALE: AS NOTED | DATE: | |
| PHASE: FOR BID | TACOMA, WA 98401-1837 | | | | |

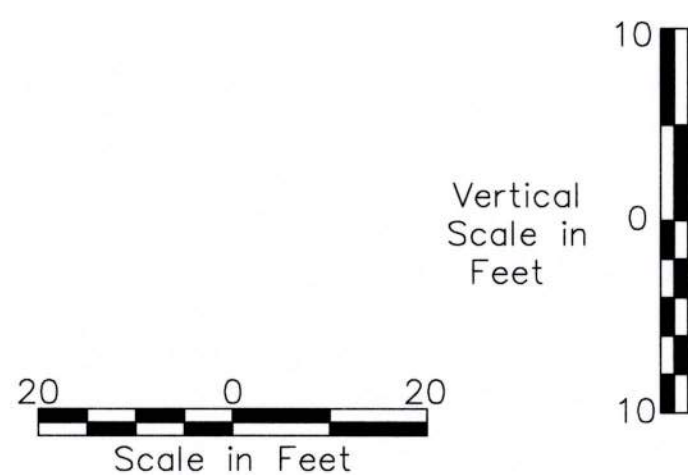


NOTES

- DESIGN DEPTHS ARE APPROXIMATE.
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LEGEND

- BORING LOCATION
- SAMPLE INTERVAL AND DEPTH
- APPROXIMATE BOTTOM OF CONTAINMENT WALL
- PRE-CAP GRADING LINE
- EXISTING GRADE
- N BLOW COUNT
- TD TOTAL DEPTH
- bgs BELOW GROUND SURFACE
- UPPER AQUIFER
- FIRST AQUITARD
- INTERMEDIATE AQUIFER
- SECOND AQUIFER
- DEEP AQUIFER
- TURNING POINT



6697
C1.6
SH #24 OF #44

ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
CONTAINMENT WALL PROFILE 1 (STA 0+00 TO 11+00)

CONTRACT/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID

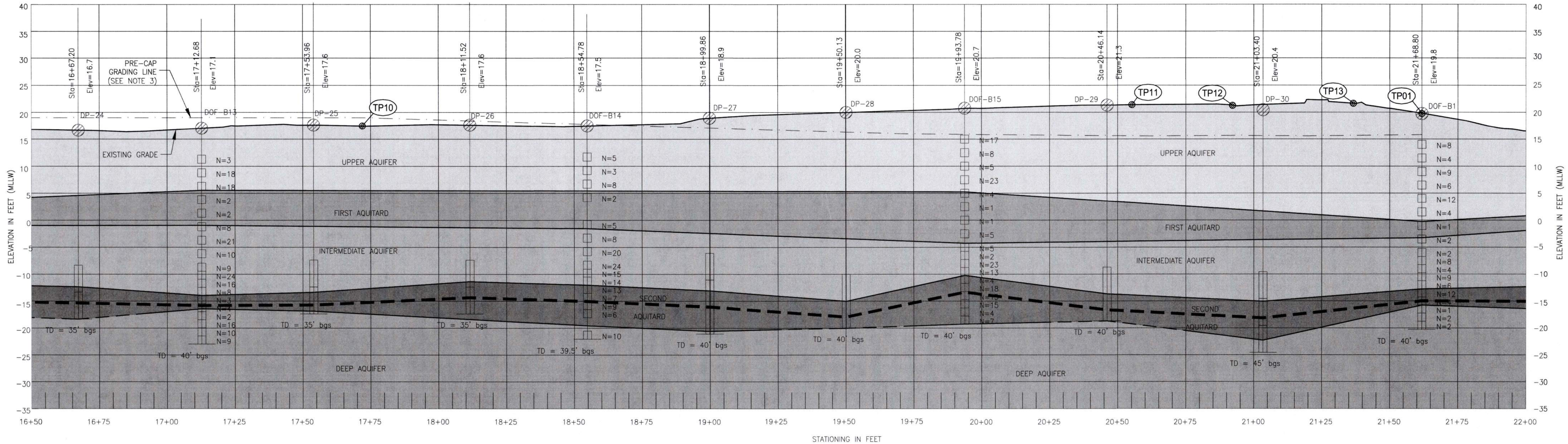
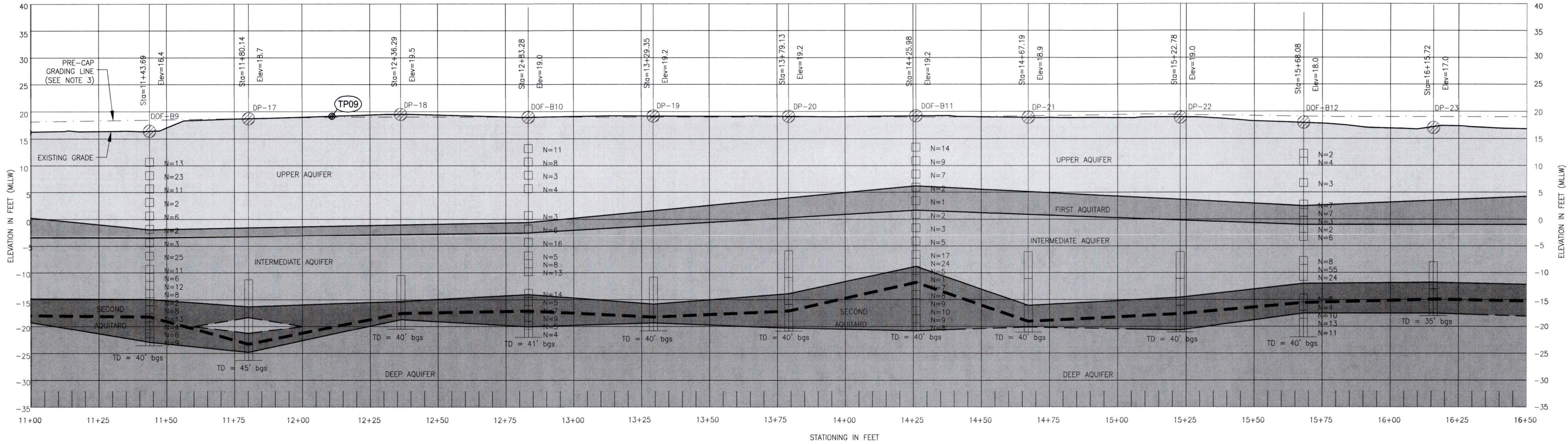
APPROVED: R. WEBB 07/29/26
CHECKED BY: T. LOUIVIERE 07/29/26
DIRECTOR ENG. DATE: 07/29/26
PRINTED BY: kbegey 07/29/26
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837

DOF DALTON OLNSTED FUGLEVAND
MARK: REVISION: BY: APPR: DATE:

STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
NO. 14745
TACOMA, WA

Port of Tacoma
P.O. BOX 887 TACOMA, WA 98401 (206)887-5611

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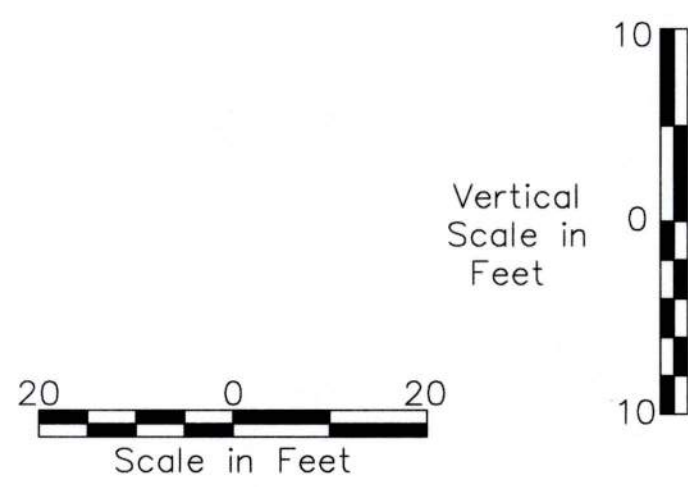


NOTES

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LEGEND

- BORING LOCATION
- SAMPLE INTERVAL AND DEPTH
- APPROXIMATE BOTTOM OF CONTAINMENT WALL
- PRE-CAP GRADING LINE
- EXISTING GRADE
- N BLOW COUNT
- TD TOTAL DEPTH
- bgs BELOW GROUND SURFACE
- UPPER AQUIFER
- FIRST AQUITARD
- INTERMEDIATE AQUIFER
- SECOND AQUITARD
- DEEP AQUIFER
- (TP07) TURNING POINT



Port of Tacoma

DALTON OLUMSTED FUGLEVAND

REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON
No. 12746

6697

C1.7

SH #25 OF #44

ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL

CONTAINMENT WALL PROFILE 2 (STA 11+00 TO 21+68.80)

TOWNSHIP: 21N RANGE: 3E SECTION: 36

DAT-HRZ: WA83/2011 VERT: MLW 15.73' @ POT MON #178

PARCEL: 0321351053

PHASE: FOR BID

APPROVED: R. WEBB 07/29/26

CHECKED BY: T. LOUVIERE 07/29/26

DIRECTOR: DATE: 07/29/26

PRINTED BY: kbejley Jul 29, 2026

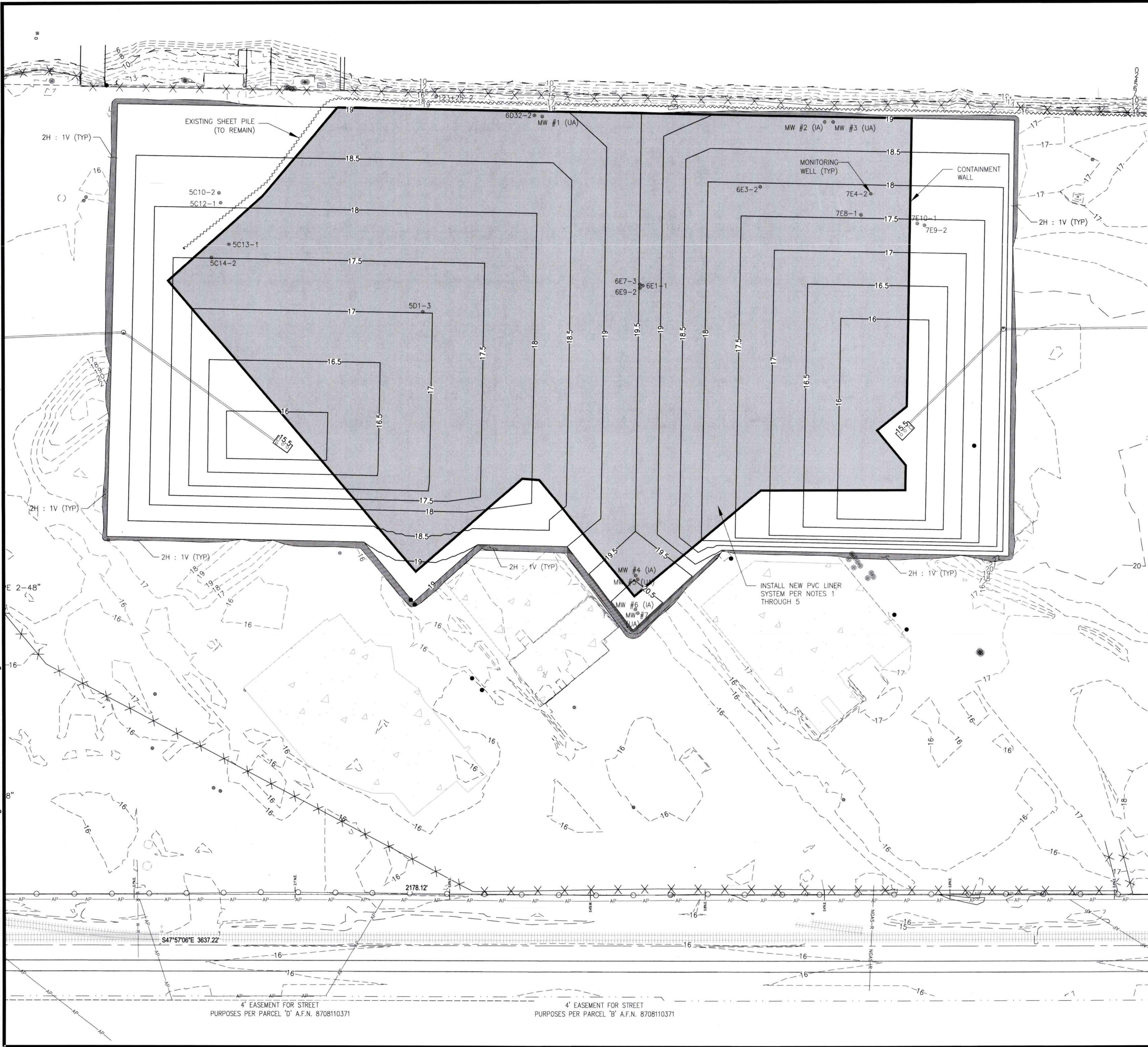
PORT ADDRESS: ONE SITCOM PLAZA

TACOMA, WA 98401-1837

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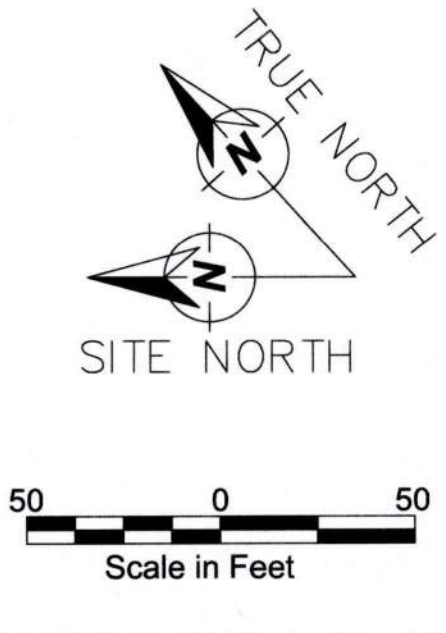
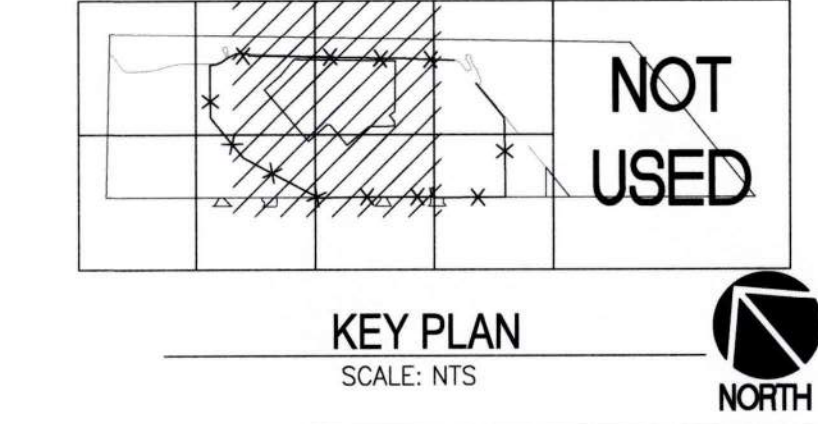
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PORT OF TACOMA FILE: P:\Port of Tacoma Arkema Site\CAD\Figures\101585.01 - Arkema Manufacturing Area Interim Action\101585.01 - 26C1.8 (PVC LINER SYSTEM PLAN) - Record Set\DOF - Civil\101585.01 - 26C1.8 (PVC LINER SYSTEM PLAN)



- LEGEND**
- SANITARY SEWER MANHOLE
 - UTILITY CLEAN OUT
 - ⊕ STORM MANHOLE
 - ⊞ STORM CATCH BASIN
 - STORM CULVERT
 - ⊙ WATER MANHOLE
 - ⊗ WATER VALVE
 - ⊞ WATER METER
 - ⊞ FIRE HYDRANT
 - ⊞ IRRIGATION CONTROL VALVE
 - ⊞ GAS VALVE
 - ⊞ GAS RISER
 - ⊞ POWER METER
 - ⊞ POWER CABINET
 - ⊞ UTILITY POLE
 - ⊞ UTILITY POLE WITH DROP(S)
 - ⊞ GUY ANCHOR
 - ⊞ JUNCTION BOX
 - ⊞ POWER VAULT
 - ⊞ LIGHT POLE
 - COLUMN
 - BOLLARD
 - ⊞ RAILROAD SWITCH
 - ⊞ MONITORING WELL
 - XXNE DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE
- PARCEL LINE
 - ROAD CENTERLINE
 - RIGHT OF WAY LINE
 - AP—AP— OVERHEAD POWER LINE
 - CHAIN LINK FENCE
 - RAILROAD TRACKS
 - WETLAND DELINEATION
 - SHEARWALL/SHEET PILE WALL PER 2004 MAPPING
 - WETLAND AREA
 - PVC LINER SYSTEM
 - CONCRETE SURFACE
 - CONTAINMENT WALL ALIGNMENT
 - PROPOSED CONTOUR
 - MAJOR ELEVATION CONTOUR (5' INTERVAL)
 - MINOR ELEVATION CONTOUR (1' INTERVAL)
 - SLOPE
 - PROPOSED SILT FENCE

- NOTES**
- BOTTOM LAYER OF NON-WOVEN GEOTEXTILE SHALL BE PLACED ON PRE-CAP GRADED SURFACE INSIDE THE CONTAINMENT WALL ALIGNMENT PRIOR TO PLACEMENT OF THE POLYVINYL CHLORIDE (PVC) LINER AND TOP LAYER OF NON-WOVEN GEOTEXTILE.
 - PVC LINER MATERIAL SHALL BE A THICKNESS OF 30-MIL.
 - PVC LINER SYSTEM INCLUDES BASE GEOTEXTILE, PVC LINER, AND TOP GEOTEXTILE.
 - PVC LINER SYSTEM SHALL BE WELDED TO PVC WELL CASINGS WHERE WELLS ARE PROPOSED TO PENETRATE THE LINER.
 - NEW WELLS IDENTIFIED ON THIS SHEET WILL BE INSTALLED BY THE ENGINEER. ENGINEER WILL COORDINATE WITH THE CONTRACTOR. PVC LINER SYSTEM SHALL NOT BE INSTALLED PRIOR TO INSTALLATION OF THE NEW WELLS.





Port of Tacoma
P.O. BOX 1807 TACOMA, WA 98401 (206)855-5641

DOF DALTON OLMSTED FUGLEVAND



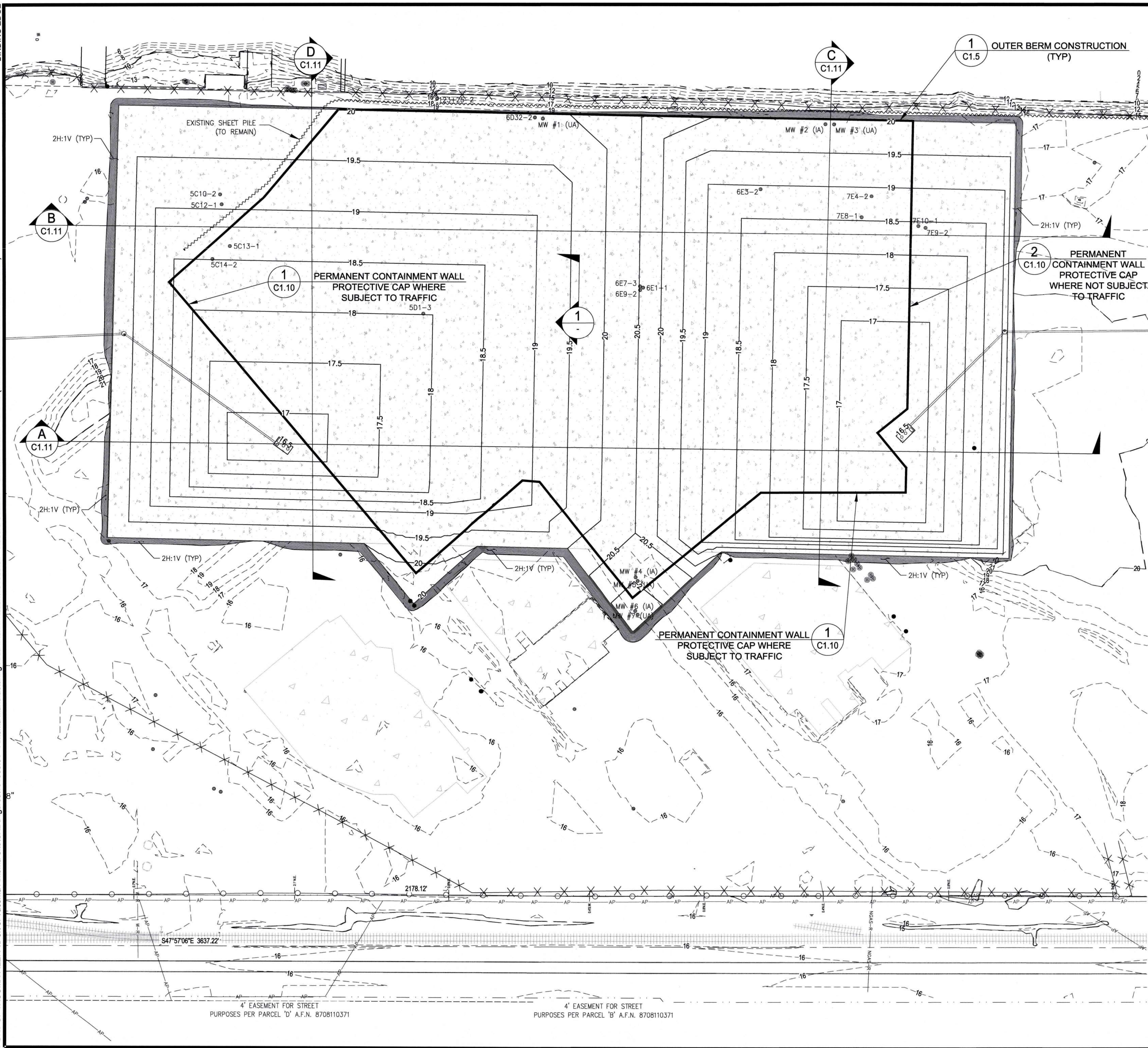
R. WEBB 07/29/26
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T. LOUVIERE 07/29/26
DIRECTOR ENG. DATE
PROJ. ENGR DATE
PRINTED BY: kbegey Jul 29, 2026
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837

ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
PVC LINER SYSTEM PLAN

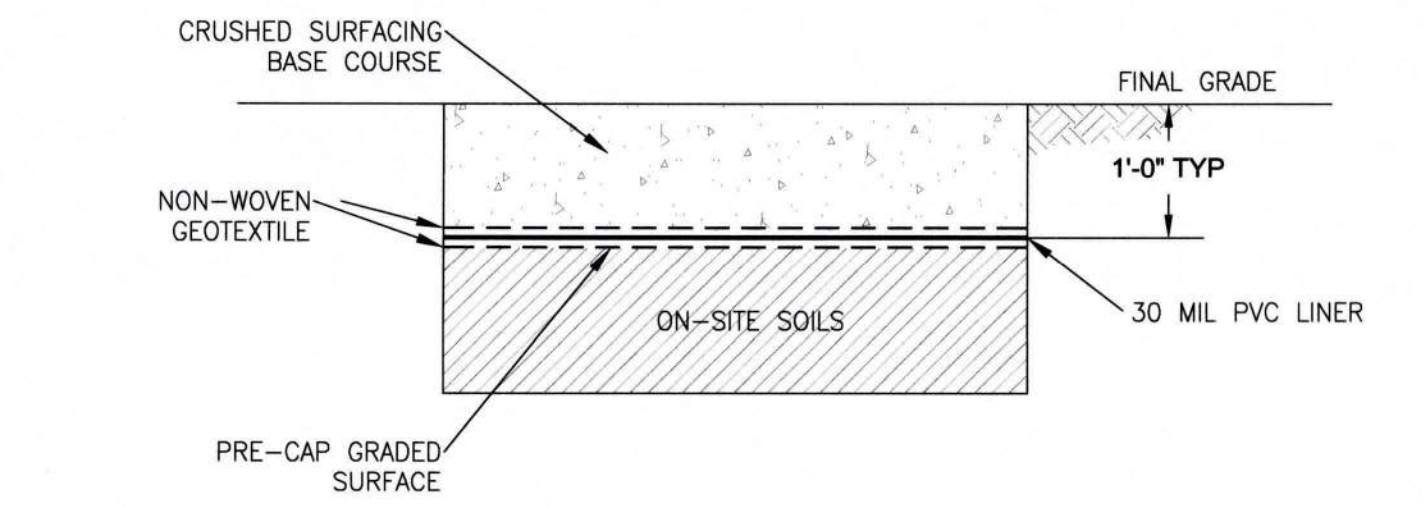
6697
SH #26 OF #44
C1.8

CONT/CONS: PA000000403 TOWNSHIP: 21N RANGE: 3E SECTION: 36
M. ID: 101585.01 DAT-HRZ: WA83/2011 VERT: MLLW 15.73' @ POT MON #178
PHASE: FOR BID PARCEL: 0321351053 DRAWING SCALE: AS NOTED

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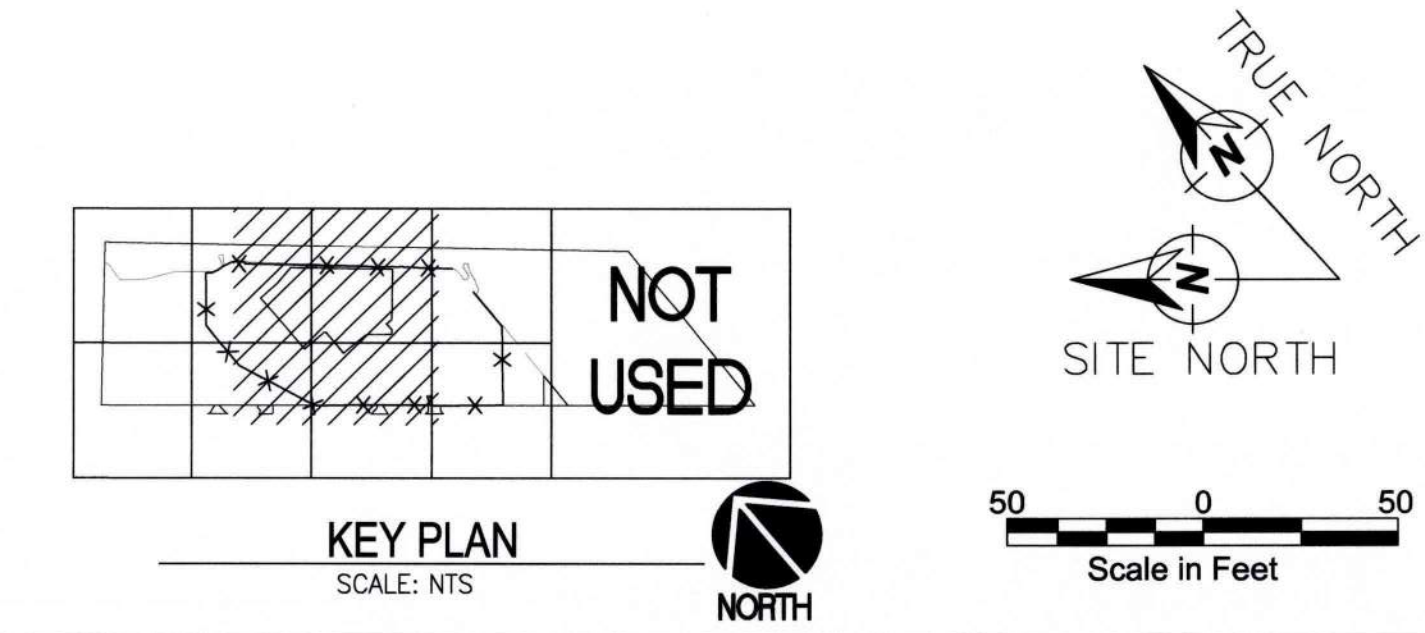


- | | |
|--|---|
| LEGEND | |
| ◎ SANITARY SEWER MANHOLE | _____ PARCEL LINE |
| ○ UTILITY CLEAN OUT | - - - - ROAD CENTERLINE |
| ⊙ STORM MANHOLE | - · - · RIGHT OF WAY LINE |
| ▣ STORM CATCH BASIN | — AP — AP — OVERHEAD POWER LINE |
| — S TORM CULVERT | —— ○ —— CHAIN LINK FENCE |
| (W) WATER MANHOLE | + + + + RAILROAD TRACKS |
| ⌘ WATER VALVE | - - - WETLAND DELINEATION |
| ⊞ WATER METER | ~ ~ ~ SHEARWALL/SHEET PILE WALL PER 2004 MAPPING |
| Q FIRE HYDRANT | |
| ✕ IR IRRIGATION CONTROL VALVE | [] [] [] WETLAND AREA |
| ⊞ GAS VALVE | [/ / / /] EASEMENT |
| ⊞ GAS RISER | [] [] CRUSHED ROCK BASE COURSE |
| ⊞ POWER METER | [Δ Δ Δ Δ] CONCRETE SURFACE |
| [P] POWER CABINET | ———— CONTAINMENT WALL ALIGNMENT |
| ○ UTILITY POLE | ———— PROPOSED CONTOUR |
| ○ UTILITY POLE WITH DROP(S) | —— 10 —— MAJOR ELEVATION CONTOUR (5' INTERVAL) |
| — GUY ANCHOR | - - - 1 - - - MINOR ELEVATION CONTOUR (1' INTERVAL) |
| [J] JUNCTION BOX | → SLOPE |
| [P] POWER VAULT | — X — X — PROPOSED SILT FENCE |
| * LIGHT POLE | |
| ● COLUMN | |
| ⊙ BOLLARD | |
| SW RAILROAD SWITCH | |
| ⊞ MONITORING WELL | |
| X.N.E. DISTANCE AND DIRECTION OF NOTED OBJECT FROM PROPERTY LINE | SECTION LOCATION |



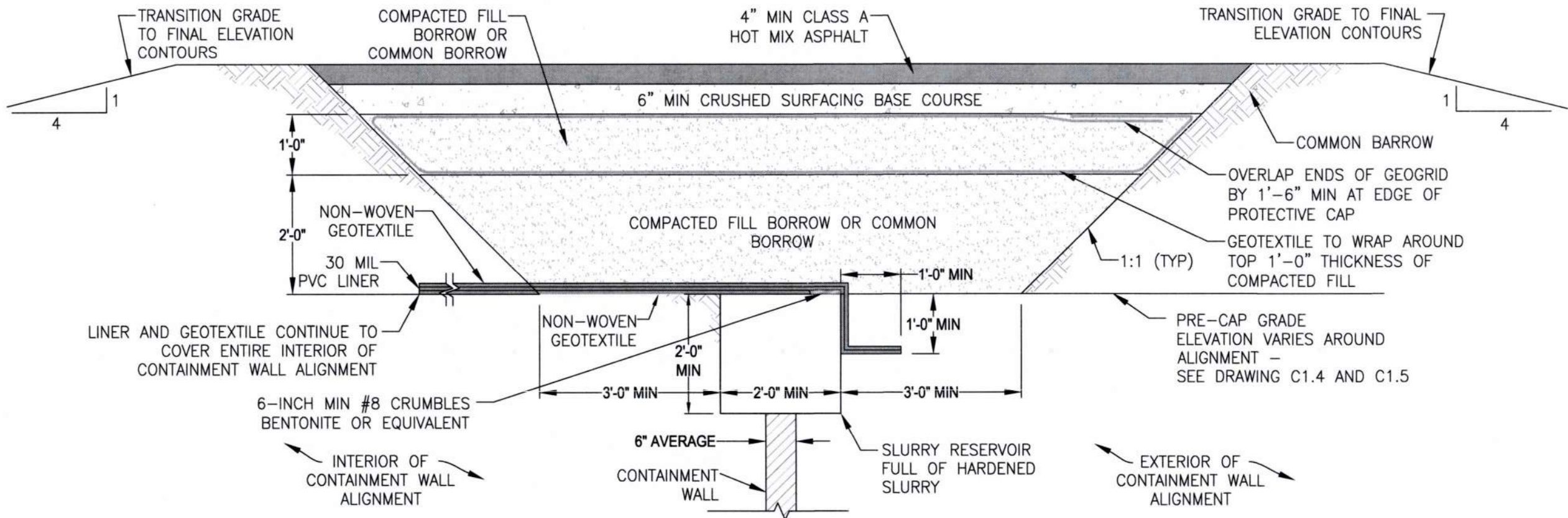
1 TYPICAL SECTION
SCALE: NTS

- ## NOTES
1. A MINIMUM OF 1-FOOT OF CRUSHED SURFACING BASE COURSE WILL BE PLACED FOR FINE GRADING AND CONSTRUCTING FINAL CONTOURS OVER THE PVC LINER AND GEOTEXTILE.
 2. ALL WELLS PROTECTED THROUGH CONSTRUCTION SHALL BE EXTENDED TO FINAL SURFACE ELEVATION AND FINISHED WITH 8-INCH FLUSH MOUNT MONUMENTS. ENGINEER TO APPROVE MONUMENT PROPOSED FOR USE.
 3. LOCATION OF CONTAINMENT WALL PROTECTIVE CAP WHERE SUBJECT TO TRAFFIC MAY BE FIELD ADJUSTED BY ENGINEER.
 4. PERMANENT CONTAINMENT WALL PROTECTIVE CAP WHERE SUBJECT TO TRAFFIC SHALL BE A MINIMUM WIDTH OF 20- FEET ALONG THE BARRIER WALL ALIGNMENT AND HAVE A MINIMUM TOTAL LENGTH OF 50- FEET, INCLUSIVE OF SLOPING EXACT LOCATION TO BE DETERMINED IN THE FIELD BY ENGINEER. CONTRACTOR SHALL INSTALL SURFACE WATER CONVEYANCE PIPING TO PROMOTE STORMWATER FLOW UNDER THE PERMANENT CONTAINMENT WALL PROTECTIVE CAP WHERE SUBJECT TO TRAFFIC. THIS SHALL CONSIST OF 8-INCH CORRUGATED DUAL WALL PIPE PLACED ON FINAL RESTORATION SURFACES AS SHOWN ON THIS SHEET AND THE PERMANENT CONTAINMENT WALL PROTECTIVE CAP WHERE SUBJECT TO TRAFFIC CONSTRUCTED ABOVE THE PIPE(S). PLACEMENT OF THE PIPE(S) SHALL BE APPROVED BY THE ENGINEER.
 5. EXTERIOR STORMWATER DIVERSION BERM SHALL REMAIN IN PLACE IN AREAS WHERE THE EXISTING GRADE IS HIGHER THAN THE RESTORATION GRADE TO PREVENT RUN ON OF SURFACE WATER FROM EXISTING GRADES TO RESTORATION AREA.
 6. FINAL RESTORATION SURFACES SHALL BE ROLLED WITH A VIBRATORY DRUM COMPACTOR (CATERPILLAR CS12 SMOOTH DRUM ROLLER OR EQUIVALENT) EXCEPT WITHIN 10 FEET OF THE CONTAINMENT WALL WITHIN 10 FEET OF THE CONTAINMENT WALL CONTRACTOR SHALL STATIC ROLL GRADED SURFACES WITH A CATERPILLAR CS5 SMOOTH DRUM ROLLER OR EQUIVALENT . LARGE COMPACTORS OR OTHER HEAVY EQUIPMENT SHALL NOT COME WITHIN 5 FEET OF THE CONTAINMENT WALL, EXCEPT AT DESIGNATED CROSSINGS. SEE DRAWING C1.4 FOR COMPACTION REQUIREMENTS DIRECTLY ABOVE CONTAINMENT WALL.



NOTES

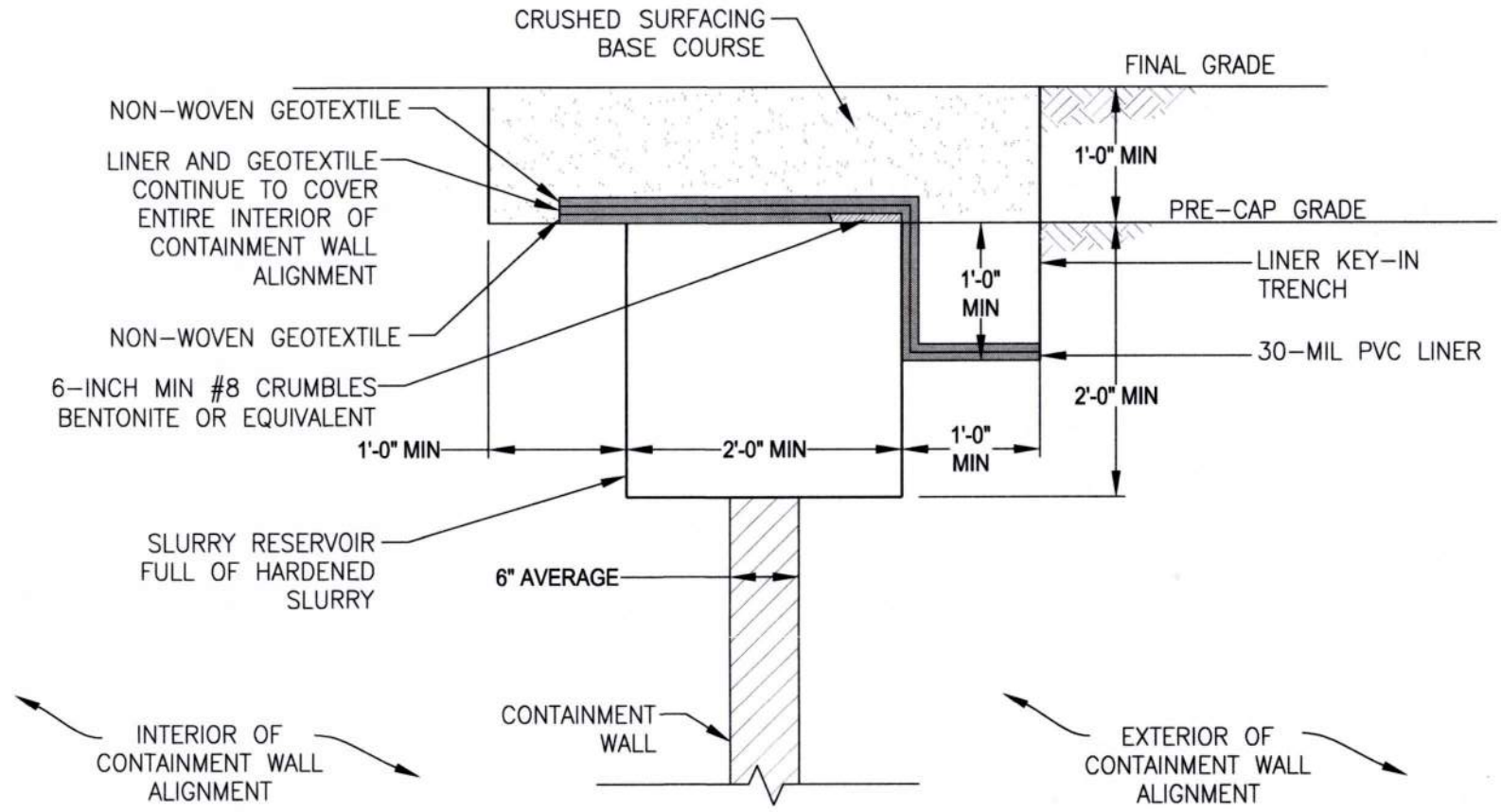
1. INSTALL INNER BERM IN THE ACTIVE AREA OF CONTAINMENT WALL CONSTRUCTION TO THE EXTENT NECESSARY TO ISOLATE TRENCH SLURRY FROM EXISTING SITE FEATURES. THE BERM MAY BE MOVED PROGRESSIVELY AS THE CONTAINMENT WALL IS CONSTRUCTED.
2. CONSTRUCT OUTER BERM OUTSIDE THE CONTAINMENT WALL ALIGNMENT PRIOR TO START OF ANY CONTAINMENT WALL CONSTRUCTION ACTIVITIES IN THE ACTIVE AREA. EXISTING BERMS THAT SATISFY THE MINIMUM REQUIREMENTS FOR THE STORMWATER BERM MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
3. WHERE PARTIAL DEMOLITION OF EXISTING ASPHALT PAVEMENTS OR CONCRETE SLABS AND FOUNDATIONS IS REQUIRED FOR CONSTRUCTION OF THE CONTAINMENT WALL, THE AREA OUTSIDE OF THE PROTECTIVE CAP SHALL BE HYDROSEED FOR PERMANENT SOIL STABILIZATION.
4. CONTAINMENT WALL TO BE OVERLAIN BY WALL PROTECTION CAP (SEE DETAILS 1 AND 2).
5. CONTRACTOR SHALL INSTALL SURFACE WATER CONVEYANCE PIPING TO PROMOTE STORMWATER FLOW UNDER THE PERMANENT CONTAINMENT WALL PROTECTIVE CAP WHERE SUBJECT TO TRAFFIC (DETAIL 1). THIS SHALL CONSIST OF 8-INCH CORRUGATED DUAL WALL PIPE PLACED ON FINAL RESTORATION CONTOURS AS SHOWN ON SHEET C1.9 AND THE PERMANENT CONTAINMENT WALL PROTECTIVE CAP WHERE SUBJECT TO TRAFFIC CONSTRUCTED ABOVE THE PIPE(S). PLACEMENT OF THE PIPE(S) SHALL BE APPROVED BY THE ENGINEER.
6. 30 MIL PVC LINER LOCATED BETWEEN TOP AND BOTTOM LAYERS OF GEOTEXTILE. LOWER LAYER OF GEOTEXTILE TERMINATES AT LOCATION OF #8 BENTONITE CRUMBLES. PVC LINER AND TOP LAYER OF GEOTEXTILE CONTINUE INTO KEY-IN TRENCH AS SHOWN IN DETAIL 1 AND 2.
7. CONTRACTOR SHALL PREVENT WORK PAD MATERIALS FROM RAVELING INTO THE SLURRY RESERVOIR DURING CONSTRUCTION.
8. IN SECTION A, THE 1'-0" MINIMUM REQUIREMENT IS RELATED TO WORK ALONG THE WATERWAY WHERE THE CONTAINMENT WALL WILL BE INSTALLED OFFSET OF THE EQUIPMENT.
9. COMPACT EACH LIFT OF BACKFILL MATERIAL TO AT LEAST 95% OF THE ASTM D1557 MAXIMUM DRY DENSITY. ALL BACKFILL SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT. ADDITIONAL CARE SHOULD BE TAKEN TO ENSURE THE TOP OF THE CONTAINMENT WALL IS NOT DAMAGED AS PART OF COMPACTION EFFORTS.
10. WORK PAD MAY BE CONSTRUCTED USING CLEAN AGGREGATES PER SPECIFICATIONS. THE BASE ESTIMATE ASSUMES DIMENSIONS OF 6-INCH THICKNESS AND 20-FOOT WIDTH. CONTRACTOR MAY USE ALTERNATE SUPPORT METHODS AS REQUIRED BY THEIR EQUIPMENT. AT CONTRACTOR'S DISCRETION, PORTIONS OF THE ALIGNMENT MAY NOT REQUIRE WORK PAD WHERE EXISTING SOILS ARE COMPETENT.



PERMANENT CONTAINMENT WALL PROTECTIVE CAP
WHERE SUBJECT TO TRAFFIC

1
C1.9

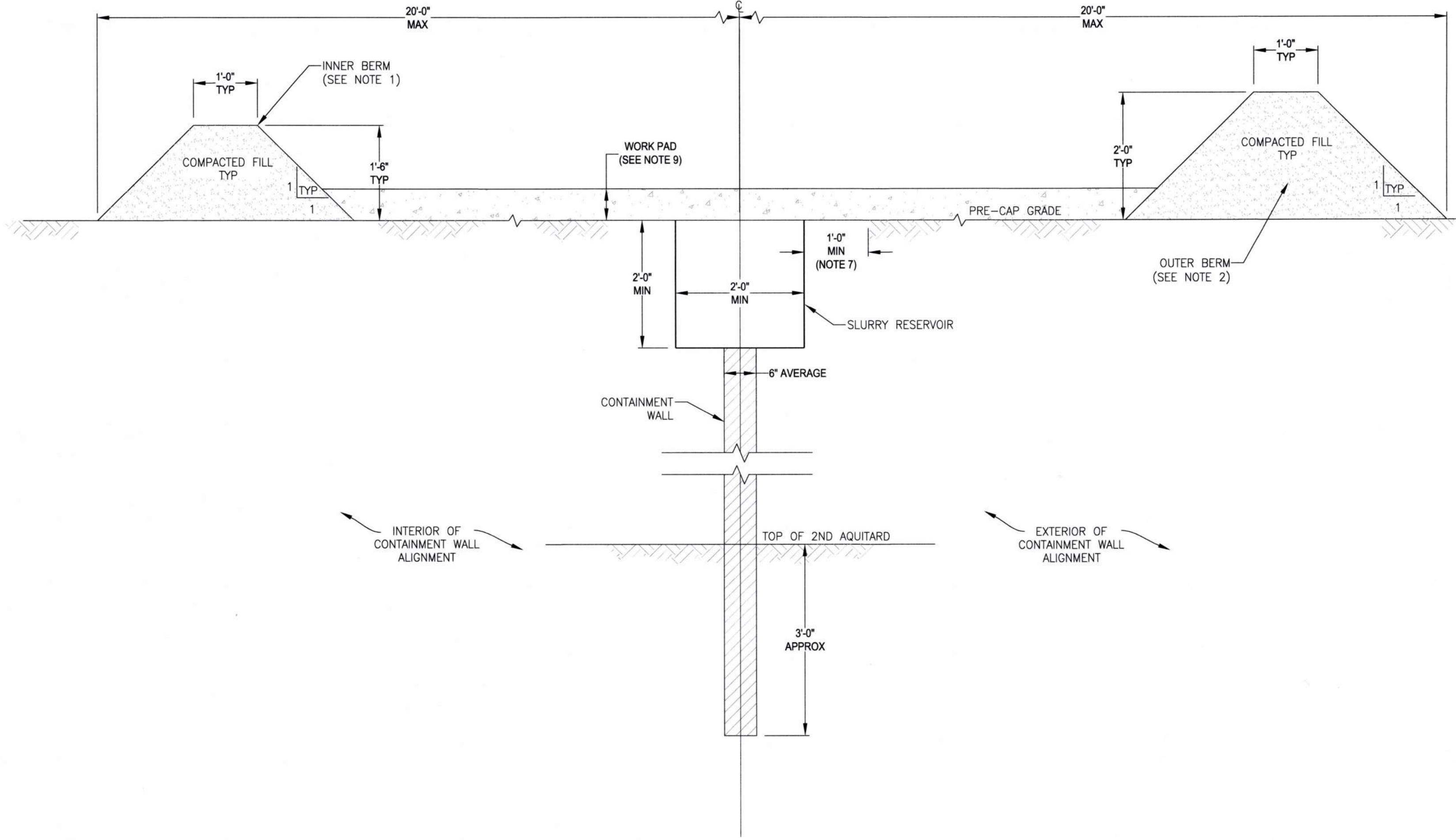
SCALE: NTS



PERMANENT CONTAINMENT WALL PROTECTIVE CAP
WHERE NOT SUBJECT TO TRAFFIC LOAD

2
C1.9

SCALE: NTS

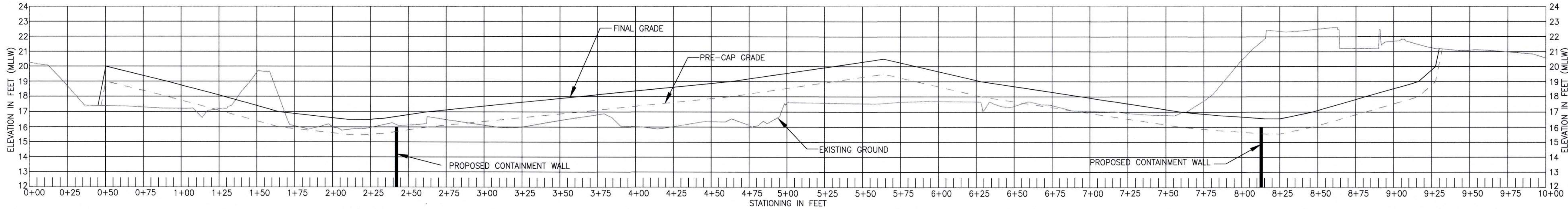


TYPICAL SECTION THROUGH CONTAINMENT WALL
DURING CONSTRUCTION

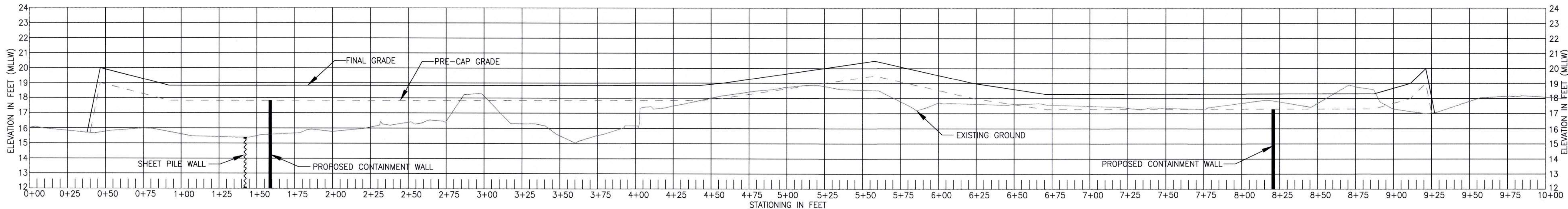
A
C1.5

SCALE: NTS

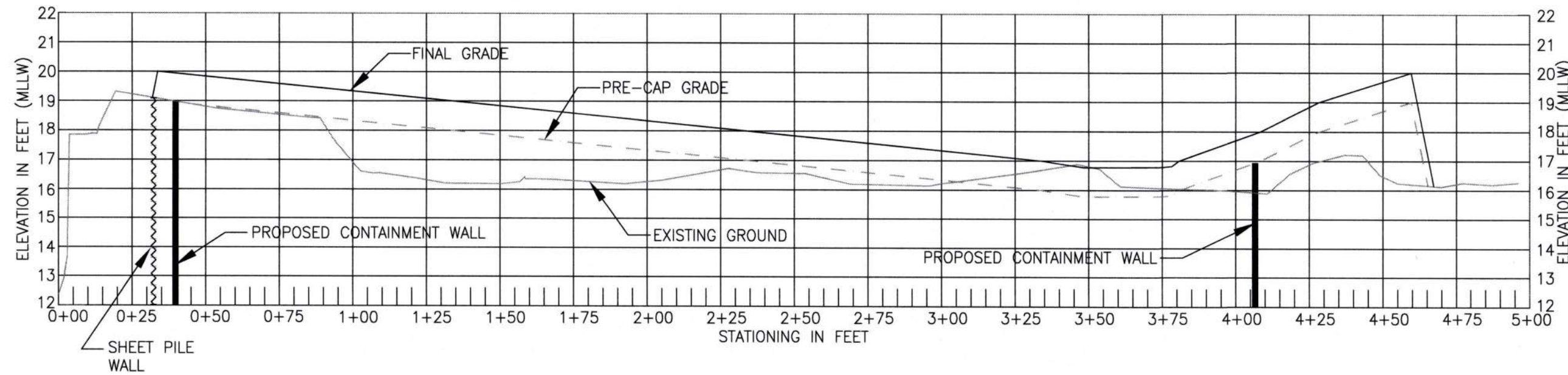
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|--|---|---|---|------------------|--------------------------------|
| 6697
C1.10
SH #28 OF #44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
CONTAINMENT WALL DETAILS | | APPROVED: <i>[Signature]</i> | R. WEBB 07/29/26 | CHECKED BY: TLOUVIERE 07/29/26 |
| | CONTRACT/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID | TOWNSHIP: 21N
RANGE: 3E
SECTION: 36
DAT-HRZ: WA83/2011
PARCEL: 0321351053 | DIRECTOR ENG. DATE: <i>[Signature]</i>
PRINTED BY: kbegley Jul 29, 2026
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837 | DATE: 07/29/26 | BY: <i>[Signature]</i> |
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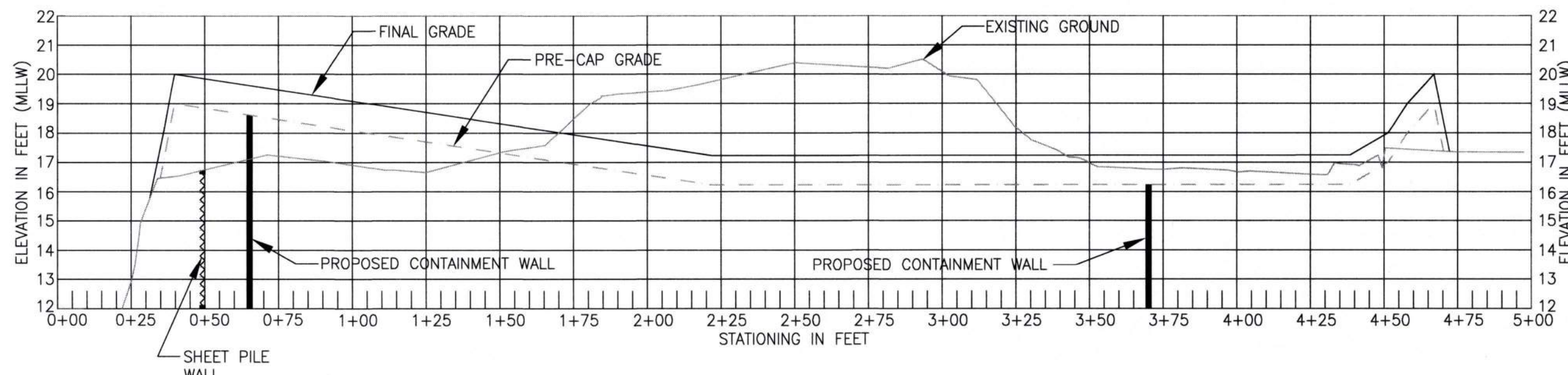
A
C1.9
CROSS SECTION A-A'
SCALE: HORIZONTAL: 1"=40', VERTICAL: 1"=4'



B
C1.9
CROSS SECTION B-B'
SCALE: HORIZONTAL: 1"=40', VERTICAL: 1"=4'



C
C1.9
CROSS SECTION C-C'
SCALE: HORIZONTAL: 1"=40', VERTICAL: 1"=4'



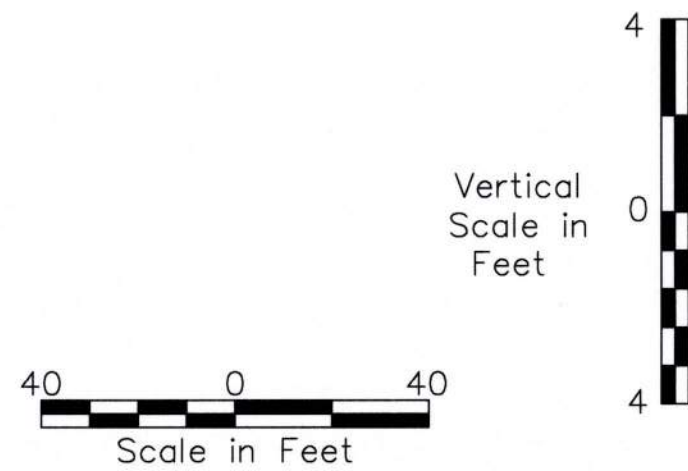
D
C1.9
CROSS SECTION D-D'
SCALE: HORIZONTAL: 1"=40', VERTICAL: 1"=4'

NOTES

1. VERTICAL DATUM: MLW (PER PORT OF TACOMA SURVEY CONTROL MAP, DATED 2016).
2. PROPOSED PRE-CAP GRADING LINE/ELEVATION IS ASSUMED TOP ELEVATION OF THE CONTAINMENT WALL. TOP ELEVATION MAY VARY BASED ON THE WORK PAD ELEVATION, CONTRACTOR MEANS AND METHODS FOR SLOPES, AND TRAFFIC CROSSINGS, ETC. TOP OF WALL ELEVATION SHALL NOT BE LESS THAN PRE-CAP GRADING ELEVATION AT THE FINISH OF INSTALLATION AND MAY BE CUT DOWN, AS DETERMINED NECESSARY BY THE ENGINEER AS PART OF RESTORATION REQUIREMENTS (SHEETS C1.9 AND C1.11).

LEGEND

- EXISTING GROUND
- PROPOSED RESTORATION SURFACE
- - - PROPOSED PRE-CAP GRADING

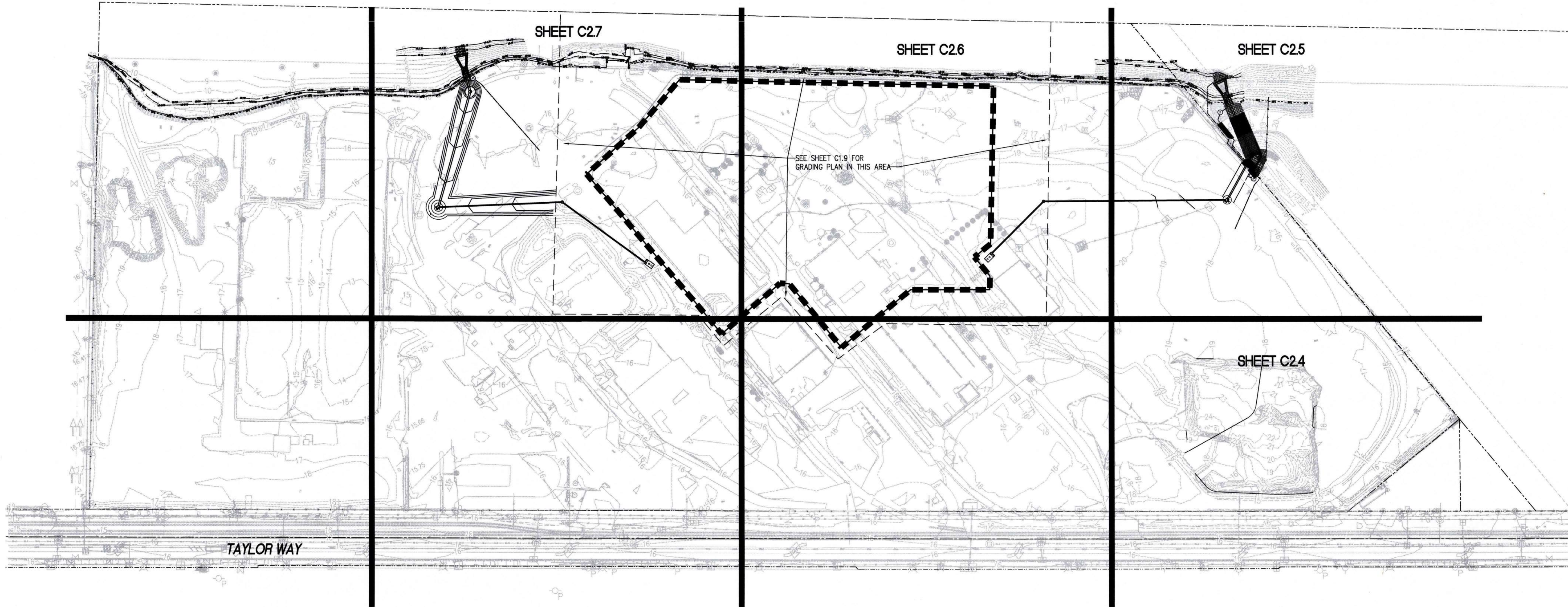


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|--|--|-------------------------|----------------|--------------------------------|---------------------------|--|
| 6697
C1.11
SH #29 OF #44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
FINAL RESTORATION CROSS SECTIONS | | | | | |
| | CONT/CONS: PA00000403 | TOWNSHIP: 21N | RANGE: 3E | SECTION: 36 | | |
| M. ID: 101585.01 | DAT-HRZ: WA83/2011 | VERT: MLW 15.73' | @ POT MON #178 | PORT ADDRESS: ONE SITCUM PLAZA | TACOMA, WA 98401-1837 | |
| PHASE: FOR BID | PARCEL: 0321351053 | DRAWING SCALE: AS NOTED | | | | |
| APPROVED: | | | | | R. WEBB 07/29/26 | |
| DIRECTOR ENG. DATE: 07/29/26 | | | | | CHECKED BY DATE: 07/29/26 | |
| PROJECT ENG. DATE: 07/29/26 | | | | | PROJ. ENGR DATE: 07/29/26 | |
| PRINTED BY: kbegley Jul 29, 2026 | | | | | BY: | |
| DATE: 07/29/26 | | | | | APPR: | |
| DATE: 07/29/26 | | | | | DATE: | |

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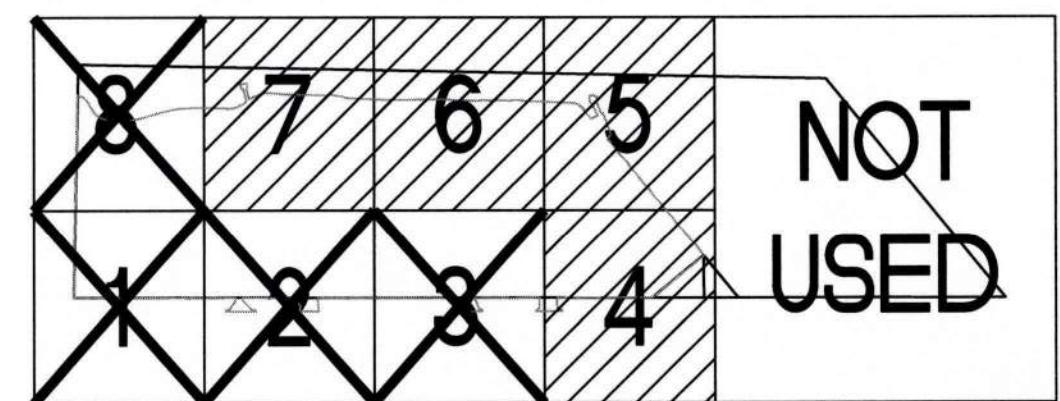
LEGEND

■■■■■■■■■■ PHASE 1 - BARRIER WALL INSTALLATION



OVERALL GRADING AND DRAINAGE PLAN
SCALE: 1" = 100'

HORIZONTAL SCALE: 1"=100'
100 0 100 200



KEY PLAN
SCALE: NTS



6697

C2.0
SH # 30 OF 44

ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
OVERALL GRADING AND DRAINAGE PLAN

CONT/CONS: PA000000403 TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 36
M. ID: 101585.01 DAT-HRZ: WA83/2011 VERT: MLLW 15.73' @ POT MON #178
PHASE: FOR BID PARCEL: 0321351053 DRAWING SCALE: AS NOTED

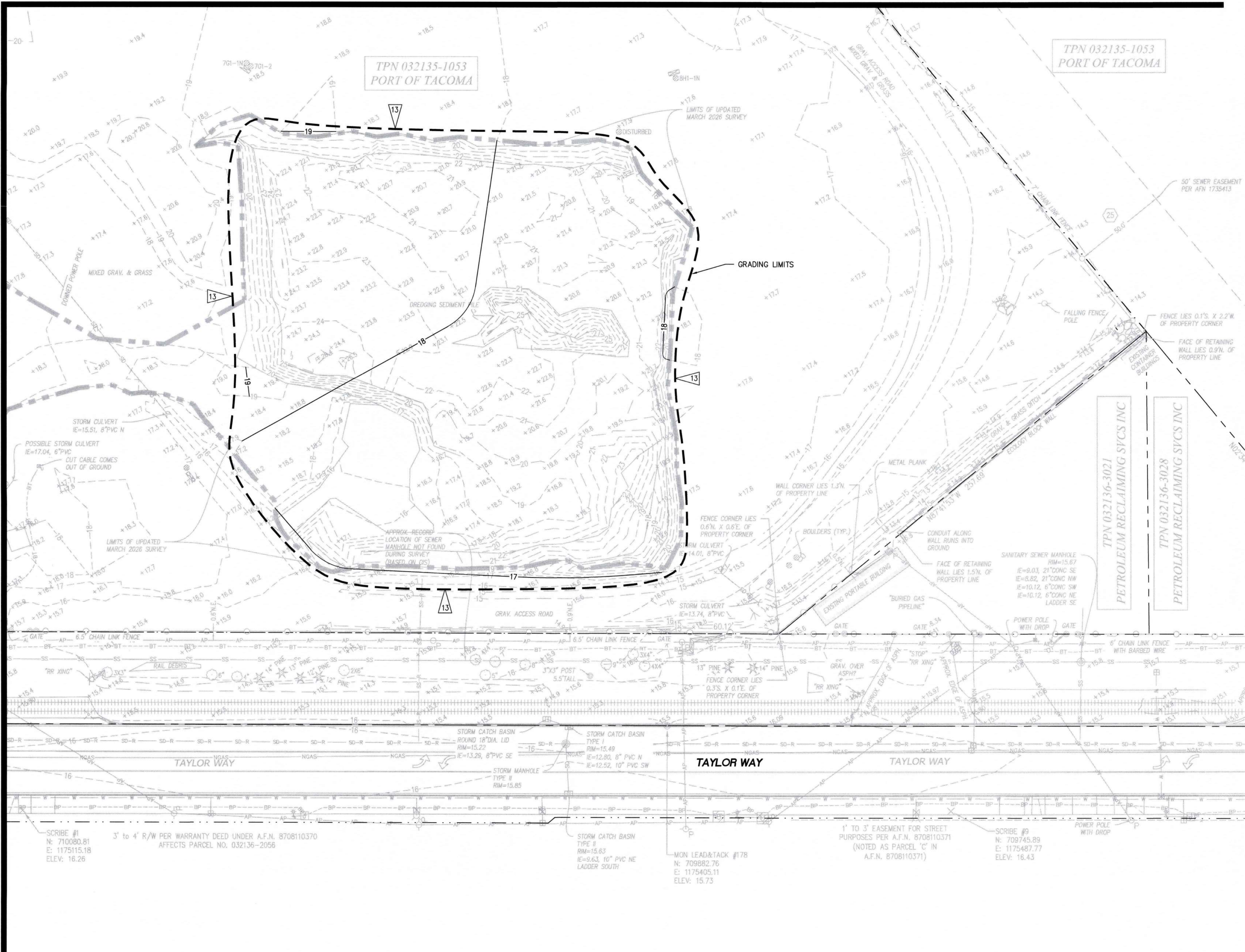
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DIRECTOR ENG. DATE PROJ. ENGR DATE
PRINTED BY: KreischerK Jul 30, 2026
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837



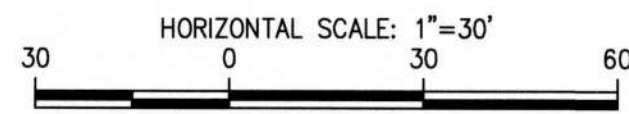
MARK: REVISION: BY: APPR: DATE:



MATCHLINE SEE SHEET C25



GRADING AND DRAINAGE PLAN - AREA 4
SCALE: 1" = 30'



- 11 PROVIDE (1) TEMPORARY INLET, PUMP AND DISCHARGE PIPELINE. CONTRACTOR TO PROVIDE ALL PIPE, FITTINGS AND ALIGNMENT.
- 12 THE ALIGNMENT SHOWN IS ABOVE GROUND EXCEPT FOR THE ACCESS CROSSING. THE ACCESS CROSSING IS BURIED WITH AN 8" DIAMETER DIP SLEEVE INSTALLED ON TO OF THE FIRST GEOGRID MAT - SEE DETAILS 2 & 3/C2.12.
- 13 THE CONTRACTOR MAY USE THIS ONSITE SOURCE TO MEET PRELOAD AND ONSITE FILL REQUIREMENTS. THERE IS A MAXIMUM OF 5700 CUBIC YARDS (CY) AVAILABLE WITH THE GRADING SHOWN. SHOULD THE REQUIREMENTS REQUIRE LESS THAN 5700 CY, THEN SHAPE THE REMAINING STOCKPILE TO DRAIN. SHOULD THE REQUIREMENTS REQUIRE MORE THAN 5700 CY, PROVIDE SATISFACTORY IMPORT PER THE CONTRACT DOCUMENTS.

LEGEND

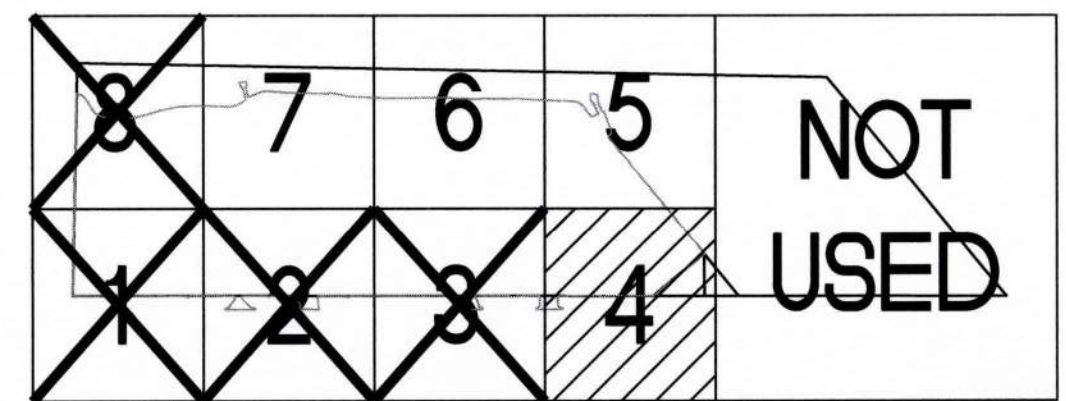
- PROPOSED FEATURES-**
- STORM DRAIN PIPE
 - 20 CONTOUR MAJOR
 - 19 CONTOUR MINOR
 - RIDGE LINE
 - HTL HIGH TIDE LINE = ELEVATION 13.5
 - MHHW MEAN HIGHER HIGH WATER = ELEVATION 11.80
 - MHW MEAN HIGH WATER = ELEVATION 10.92
 - MLW MEAN LOW WATER = ELEVATION 2.85
 - MLLW MEAN LOWER LOW WATER = ELEVATION 0.00
 - BFE FEMA BASE FLOOD ELEVATION = 14.5±
 - GRADING LIMITS
 - INLET DISCHARGE TEMPORARY DEWATERING PUMP, INLET AND DISCHARGE PIPING
 - TOP OF TEMPORARY PRELOAD EMBANKMENT (TPE)
 - TYPE 2 CATCH BASIN
 - TREATMENT VAULT (16'x8')
 - QUARRY SPALL APRON PAD
 - TOPSOIL AND SEEDING
 - GRAVEL COVER PER DETAIL 3/C2.12
 - TRENCH DAM

GENERAL NOTES

- THE BURIED UTILITIES ON THIS PROJECT ARE SHOWN IN THEIR APPROXIMATE LOCATION WHERE KNOWN BASED ON FIELD SURVEY PERFORMED BY SITTS & HILL. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEIR LOCATION MARKED ON THE GROUND PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL PROTECT, OR IMMEDIATELY REPAIR, ANY DAMAGED UTILITY "DISCOVERED" ON THIS PROJECT WITHOUT ADDITIONAL COSTS.
- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITTS & HILL ENGINEERS, INC. SEE SHEET SV1.0 FOR HORIZONTAL AND VERTICAL DATUM.
- SEE SHEETS C2.9-C2.16, C2.19 AND C2.25 FOR STORM DRAINAGE DETAILS AND NOTES, AND STORM DRAIN PROFILES.
- ALL CATCH BASIN COVERS/LIDS TO BE BOLT-DOWN. THE CONTRACTOR SHALL SET RINGS AS NECESSARY TO MATCH FUTURE FINISHED GRADE AS NOTED.
- CONTRACTOR AND/OR SURVEYOR SHALL CALCULATE PIPE SLOPES BASED ON THE INVERT ELEVATIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FIELD STAKING AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING ALL STORM SYSTEMS (EXISTING AND PROPOSED) AND TESC FACILITIES THROUGH THE CONSTRUCTION AND PROJECT COMPLETION.
- REFER TO STORM DRAINAGE SYSTEM NOTES ON SHEET C2.9 AND THE SPECIFICATIONS FOR THE STORM SYSTEM ELEMENTS.
- REFER TO SHEET C2.0 FOR OVERALL STORM DRAINAGE SYSTEM IN PHASE 1.
- THE CONTRACTOR SHALL NOT UTILIZE EITHER THE TREATMENT VAULT OR CONVEYANCE PIPELINE INSTALLATIONS FOR CONSTRUCTION STORMWATER DISCHARGES. PROVIDE TEMPORARY PLUGS UPON THEIR RESPECTIVE INSTALLATIONS TO PROTECT AND PREVENT THEIR USE.
- SEE U.S. ARMY CORPS OF ENGINEERS REFERENCE NUMBER NWS-787-WRD FOR ALL SHORELINE WORK PERMITTED UP TO ORDINARY HIGH WATER MARK (OHW, 13.50' MLLW) IN THE SPECIFICATIONS.

KEY NOTES

- INSTALL STORM TREATMENT VAULT PER DETAILS ON SHEETS C2.10 AND C2.11. PROVIDE STRUCTURE SUPPORT PER DETAIL 2/C2.9.
- INSTALL STORM DRAINAGE PIPE. PIPE SIZE, MATERIAL AND SLOPE PER CALLOUT. REFER TO STORM DRAINAGE SYSTEM NOTES ON C2.9 FOR SPECIFICATIONS. PIPE BEDDING AND BACKFILL PER DETAIL 1/C2.9.
- INSTALL CATCH BASIN TYPE 2, STRUCTURE SIZE AND COVER LOCATION PER PLAN, SEE SHEET C2.25 FOR CATCH BASIN DETAILS. PROVIDE UTILITY STRUCTURE BEDDING AND BACKFILL PER DETAIL 2/C2.9. REFER TO STORM DRAINAGE SYSTEM NOTES ON C2.9 AND SPECIFICATIONS.
- INSTALL OUTFALL STRUCTURE PER SECTIONS ON SHEET C2.12 AND DETAILS ON SHEETS C2.14 AND C2.15
- CUT 32" Ø HOLE IN EXISTING STEEL SHEET PILE WALL. PROVIDE TRENCH DAM ON WEST SIDE OF EXISTING SHEET PILE WALL
- INSTALL 5'-FT LONG CPP PIPE STUB WITH TEMPORARY CAP FOR FUTURE PIPE EXTENSION, PIPE SIZE AND DIRECTION AS SHOWN IN PLAN VIEW. PROVIDE COR-N-SEAL ADAPTER PER DETAIL 1/C2.25
- PROVIDE TEMPORARY SHEET PILE WALL COFFER DAM FOR OUTFALL CONSTRUCTION. SEE SPECIFICATIONS FOR SHEET PILE WALL DESIGN, CONSTRUCTION, DEWATERING DESIGN AND EXECUTION REQUIREMENTS.
- PROVIDE (1) TEMPORARY 6" DIAMETER PUMP INLET AND DISCHARGE PIPELINE. CONTRACTOR TO PROVIDE ALL PIPE, FITTINGS AND ALIGNMENT. THE ALIGNMENT SHOWN IS ABOVE GROUND ALONG THE EXISTING FENCE LINE EXCEPT AT THE ACCESS CROSSING. THE ACCESS CROSSING IS BURIED WITH AN 8" DIP SLEEVE (SITTING ON TOP OF FIRST GEOGRID MAT-SEE DETAILS 2 & 3/C2.12). THE TEMPORARY DISCHARGE PIPELINE SHALL BE INSTALLED ABOVE GROUND OVER THE WETLAND AND TERMINATE AT THE PERMANENT QUARRY SPALL APRON PAD. THE PERMANENT QUARRY SPALL APRON PAD SHALL BE INSTALLED PRIOR TO TEMPORARY PUMP SYSTEM WORK, PERMANENT OUTFALL STRUCTURE AND OUTFALL PIPELINE WORK.
- PROVIDE A TEMPORARY DEWATERING PUMP SYSTEM THAT CONFORMS TO SPECIFICATION REQUIREMENTS.
- PROVIDE TRENCH DAM PER DETAIL 3/C2.9



KEY PLAN
SCALE: NTS



P.O. BOX 1807 TACOMA, WA 98401-0807

CIVIL & STRUCTURAL ARCHITECTURAL SURVEY
405 CENTURY STREET
TACOMA, WA 98401
PHONE: (253) 465-1000
WWW.SITTSANDHILL.COM

APPROVED:

ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL

GRADING AND DRAINAGE PLAN - AREA 4

6697

C2.4

SH # 31 OF 44

CONTRACT/CONS: PA000000403 TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 36

M. ID: 101585.01 DAT-HRZ: WA83/2011 VERT: MLLW 15.73' @ POT MON #178

PHASE: FOR BID PARCEL: 0321351053 DRAWING SCALE: AS NOTED

DATE: 06/10/26

BY: BAS

REVISION: 06/10/26

MARK: 06/10/26

DATE: 06/10/26

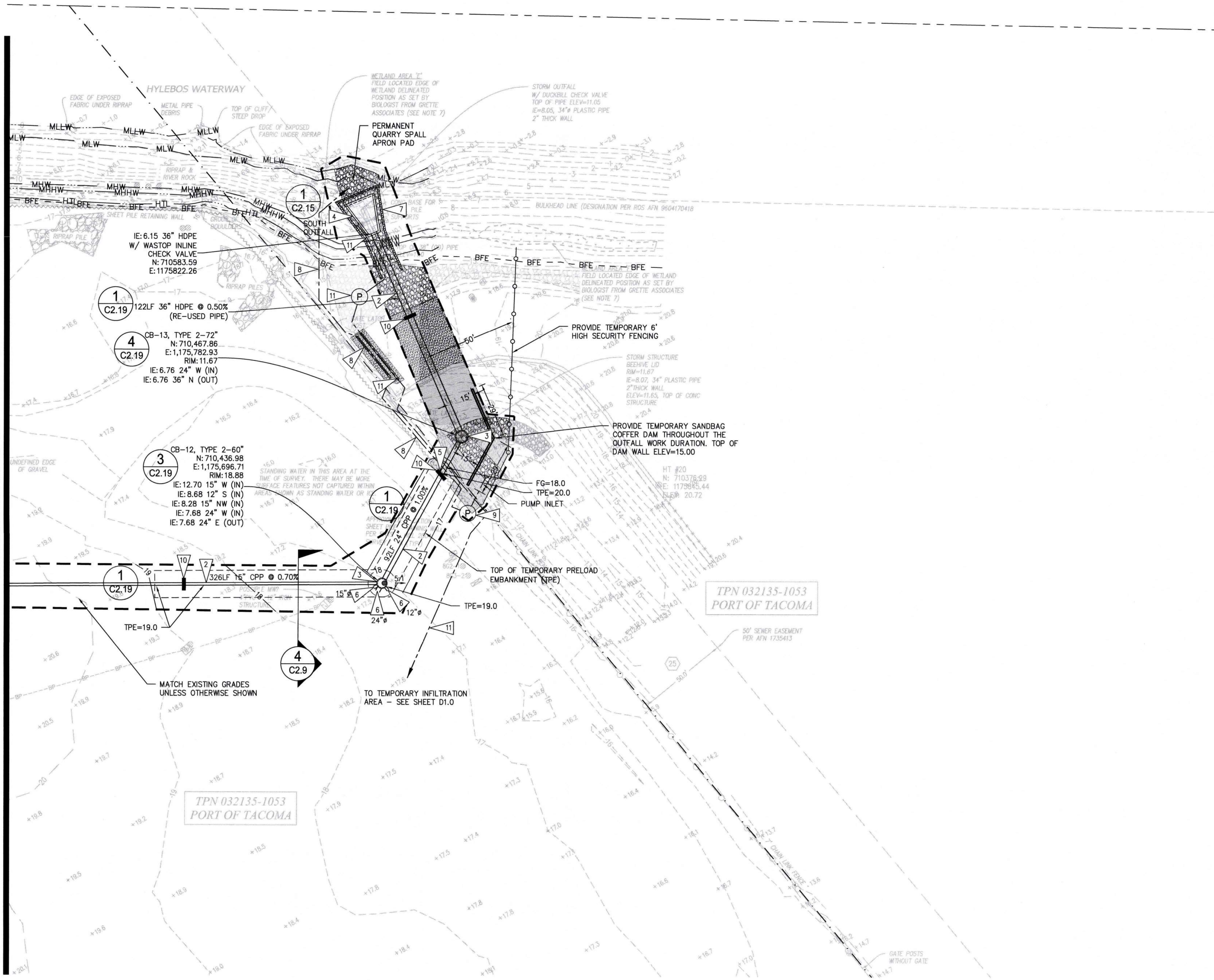
BY: KreischerK

DATE: Jul 30, 2026

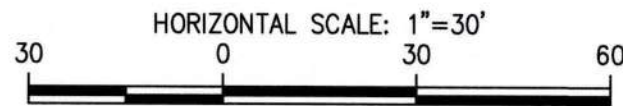
PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

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GRADING AND DRAINAGE PLAN - AREA 5
SCALE: 1" = 30'



- 11 PROVIDE (1) TEMPORARY INLET, PUMP AND DISCHARGE PIPELINE. CONTRACTOR TO PROVIDE ALL PIPE, FITTINGS AND ALIGNMENT.
- 12 THE ALIGNMENT SHOWN IS ABOVE GROUND EXCEPT FOR THE ACCESS CROSSING. THE ACCESS CROSSING IS BURIED WITH AN 8" DIAMETER DIP SLEEVE INSTALLED ON TO OF THE FIRST GEOGRID MAT - SEE DETAILS 2 & 3/C2.12.
- 13 THE CONTRACTOR MAY USE THIS ONSITE SOURCE TO MEET PRELOAD AND ONSITE FILL REQUIREMENTS. THERE IS A MAXIMUM OF 5700 CUBIC YARDS (CY) AVAILABLE WITH THE GRADING SHOWN. SHOULD THE REQUIREMENTS REQUIRE LESS THAN 5700 CY, THEN SHAPE THE REMAINING STOCKPILE TO DRAIN. SHOULD THE REQUIREMENTS REQUIRE MORE THAN 5700 CY, PROVIDE SATISFACTORY IMPORT PER THE CONTRACT DOCUMENTS.

LEGEND

PROPOSED FEATURES-

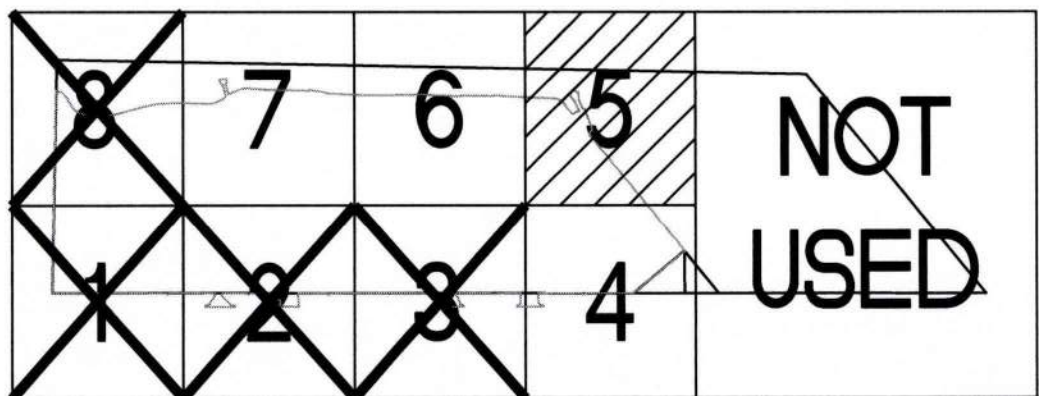
- STORM DRAIN PIPE
- 20 CONTOUR MAJOR
- 19 CONTOUR MINOR
- RIDGE LINE
- HTL HIGH TIDE LINE = ELEVATION 13.5
- MHHW MEAN HIGHER HIGH WATER = ELEVATION 11.80
- MHW MEAN HIGH WATER = ELEVATION 10.92
- MLW MEAN LOW WATER = ELEVATION 2.85
- MLLW MEAN LOWER LOW WATER = ELEVATION 0.00
- BFE FEMA BASE FLOOD ELEVATION = 14.5±
- GRADING LIMITS
- INLET DISCHARGE TEMPORARY DEWATERING PUMP, INLET AND DISCHARGE PIPING
- TOP OF TEMPORARY PRELOAD EMBANKMENT (TPE)
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
- QUARRY SPALL APRON PAD
- TOPSOIL AND SEEDING
- GRAVEL COVER PER DETAIL 3/C2.12
- TRENCH DAM

GENERAL NOTES

- THE BURIED UTILITIES ON THIS PROJECT ARE SHOWN IN THEIR APPROXIMATE LOCATION WHERE KNOWN BASED ON FIELD SURVEY PERFORMED BY SITTS & HILL. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEIR LOCATION MARKED ON THE GROUND PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL PROTECT, OR IMMEDIATELY REPAIR, ANY DAMAGED UTILITY "DISCOVERED" ON THIS PROJECT WITHOUT ADDITIONAL COSTS.
- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITTS & HILL ENGINEERS, INC. SEE SHEET SV1.0 FOR HORIZONTAL AND VERTICAL DATUM.
- SEE SHEETS C2.9-C2.16, C2.19 AND C2.25 FOR STORM DRAINAGE DETAILS AND NOTES, AND STORM DRAIN PROFILES.
- ALL CATCH BASIN COVERS/LIDS TO BE BOLT-DOWN. THE CONTRACTOR SHALL SET RINGS AS NECESSARY TO MATCH FUTURE FINISHED GRADE AS NOTED.
- CONTRACTOR AND/OR SURVEYOR SHALL CALCULATE PIPE SLOPES BASED ON THE INVERT ELEVATIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FIELD STAKING AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING ALL STORM SYSTEMS (EXISTING AND PROPOSED) AND TESC FACILITIES THROUGH THE CONSTRUCTION AND PROJECT COMPLETION.
- REFER TO STORM DRAINAGE SYSTEM NOTES ON SHEET C2.9 AND THE SPECIFICATIONS FOR THE STORM SYSTEM ELEMENTS.
- REFER TO SHEET C2.0 FOR OVERALL STORM DRAINAGE SYSTEM IN PHASE 1.
- THE CONTRACTOR SHALL NOT UTILIZE EITHER THE TREATMENT VAULT OR CONVEYANCE PIPELINE INSTALLATIONS FOR CONSTRUCTION STORMWATER DISCHARGES. PROVIDE TEMPORARY PLUGS UPON THEIR RESPECTIVE INSTALLATIONS TO PROTECT AND PREVENT THEIR USE.
- SEE U.S. ARMY CORPS OF ENGINEERS REFERENCE NUMBER NWS-787-WRD FOR ALL SHORELINE WORK PERMITTED UP TO ORDINARY HIGH WATER MARK (OHW, 13.50' MLLW) IN THE SPECIFICATIONS.

KEY NOTES

- INSTALL STORM TREATMENT VAULT PER DETAILS ON SHEETS C2.10 AND C2.11. PROVIDE STRUCTURE SUPPORT PER DETAIL 2/C2.9.
- INSTALL STORM DRAINAGE PIPE. PIPE SIZE, MATERIAL AND SLOPE PER CALLOUT. REFER TO STORM DRAINAGE SYSTEM NOTES ON C2.9 FOR SPECIFICATIONS. PIPE BEDDING AND BACKFILL PER DETAIL 1/C2.9.
- INSTALL CATCH BASIN TYPE 2, STRUCTURE SIZE AND COVER LOCATION PER PLAN, SEE SHEET C2.25 FOR CATCH BASIN DETAILS. PROVIDE UTILITY STRUCTURE BEDDING AND BACKFILL PER DETAIL 2/C2.9. REFER TO STORM DRAINAGE SYSTEM NOTES ON C2.9 AND SPECIFICATIONS.
- INSTALL OUTFALL STRUCTURE PER SECTIONS ON SHEET C2.12 AND DETAILS ON SHEETS C2.14 AND C2.15.
- CUT 32" Ø HOLE IN EXISTING STEEL SHEET PILE WALL. PROVIDE TRENCH DAM ON WEST SIDE OF EXISTING SHEET PILE WALL.
- INSTALL 5-FT LONG CPP PIPE STUB WITH TEMPORARY CAP FOR FUTURE PIPE EXTENSION, PIPE SIZE AND DIRECTION AS SHOWN IN PLAN VIEW. PROVIDE COR-N-SEAL ADAPTER PER DETAIL 1/C2.25.
- PROVIDE TEMPORARY SHEET PILE WALL COFFER DAM FOR OUTFALL CONSTRUCTION. SEE SPECIFICATIONS FOR SHEET PILE WALL DESIGN, CONSTRUCTION, DEWATERING DESIGN AND EXECUTION REQUIREMENTS.
- PROVIDE (1) TEMPORARY 6" DIAMETER PUMP INLET AND DISCHARGE PIPELINE. CONTRACTOR TO PROVIDE ALL PIPE, FITTINGS AND ALIGNMENT. THE ALIGNMENT SHOWN IS ABOVE GROUND ALONG THE EXISTING FENCE LINE EXCEPT AT THE ACCESS CROSSING. THE ACCESS CROSSING IS BURIED WITH AN 8" DIP SLEEVE (SITTING ON TOP OF FIRST GEOGRID MAT-SEE DETAILS 2 & 3/C2.12). THE TEMPORARY DISCHARGE PIPELINE SHALL BE INSTALLED ABOVE GROUND OVER THE WETLAND AND TERMINATE AT THE PERMANENT QUARRY SPALL APRON PAD. THE PERMANENT QUARRY SPALL APRON PAD SHALL BE INSTALLED PRIOR TO TEMPORARY PUMP SYSTEM WORK, PERMANENT OUTFALL STRUCTURE AND OUTFALL PIPELINE WORK.
- PROVIDE A TEMPORARY DEWATERING PUMP SYSTEM THAT CONFORMS TO SPECIFICATION REQUIREMENTS.
- PROVIDE TRENCH DAM PER DETAIL 3/C2.9.



KEY PLAN
SCALE: NTS



PORT OF TACOMA
P.O. BOX 1807 TACOMA, WA 98401-0807

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RICHARD C. HAMM
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
07/30/28

| | | | | |
|-----------|-----|----------|--------------------|---|
| APPROVED: | RCR | 06/10/26 | CHECKED BY: | DATE |
| | | | RCR | 06/10/26 |
| | | | DIRECTOR ENG. DATE | PROJ. ENGR. DATE |
| | | | PRINTED BY: | KreischerK Jul 30, 2026 |
| | | | PORT ADDRESS: | ONE SITCUM PLAZA
TACOMA, WA 98401-1837 |

ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
GRADING AND DRAINAGE PLAN - AREA 5

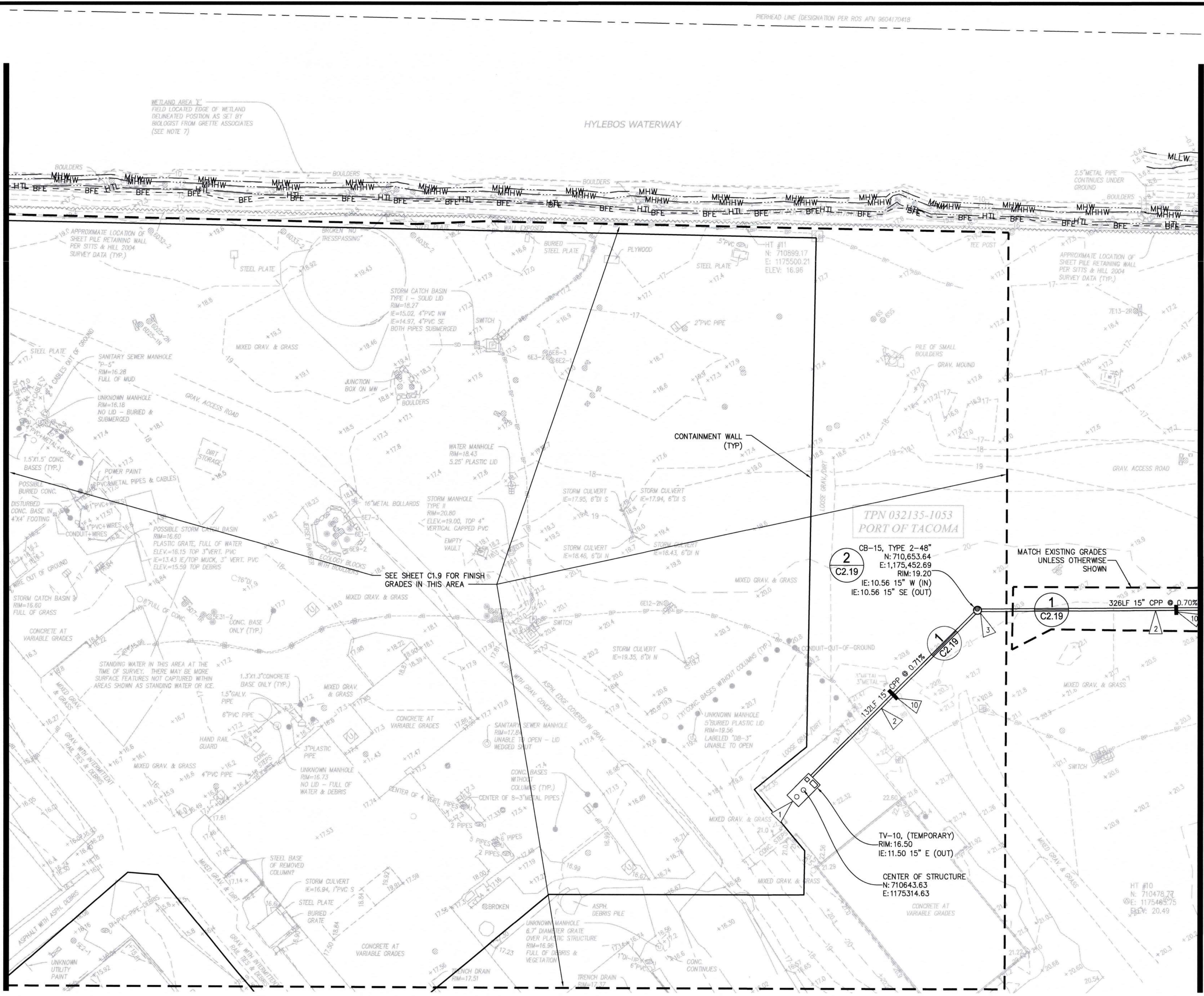
6697
C2.5
SH # 32 OF 44

CONTRACT/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID

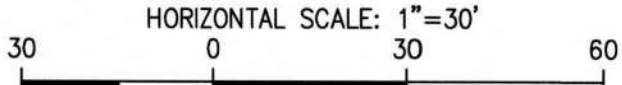
TOWNSHIP: 21 NORTH
RANGE: 3 EAST
SECTION: 36
DAT-HRZ: WA83/2011
VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053
DRAWING SCALE: AS NOTED

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MATCHLINE SEE SHEET C27



GRADING AND DRAINAGE PLAN - AREA 6
SCALE: 1" = 30'



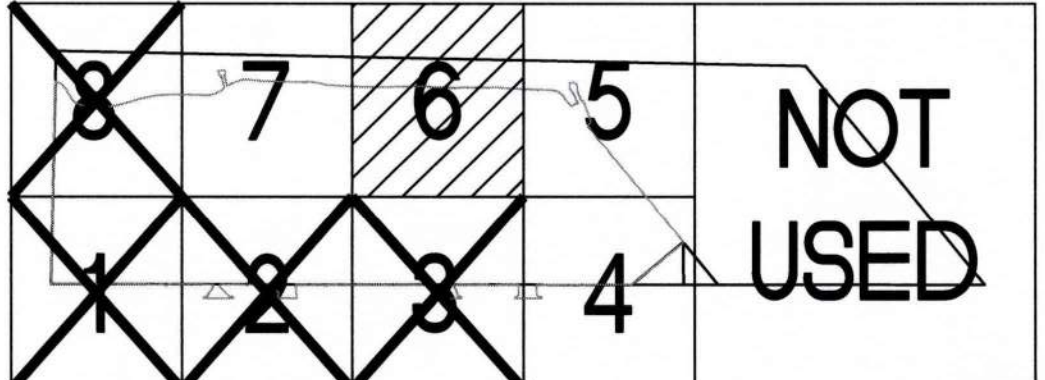
LEGEND

PROPOSED FEATURES-

- STORM DRAIN PIPE
- 20 CONTOUR MAJOR
- 19 CONTOUR MINOR
- RIDGE LINE
- HTL HIGH TIDE LINE = ELEVATION 13.5
- MHHW MEAN HIGHER HIGH WATER = ELEVATION 11.80
- MHW MEAN HIGH WATER = ELEVATION 10.92
- MLW MEAN LOW WATER = ELEVATION 2.85
- MLLW MEAN LOWER LOW WATER = ELEVATION 0.00
- BFE FEMA BASE FLOOD ELEVATION = 14.5±
- GRADING LIMITS
- INLET DISCHARGE TEMPORARY DEWATERING PUMP, INLET AND DISCHARGE PIPING
- TOP OF TEMPORARY PRELOAD EMBANKMENT (TPE)
- TYPE 2 CATCH BASIN
- TREATMENT VAULT (16'x8')
- QUARRY SPALL APRON PAD
- TOPSOIL AND SEEDING
- GRAVEL COVER PER DETAIL 3/C2.12
- TRENCH DAM

- GENERAL NOTES**
- THE BURIED UTILITIES ON THIS PROJECT ARE SHOWN IN THEIR APPROXIMATE LOCATION WHERE KNOWN BASED ON FIELD SURVEY PERFORMED BY SITTS & HILL. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEIR LOCATION MARKED ON THE GROUND PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL PROTECT, OR IMMEDIATELY REPAIR, ANY DAMAGED UTILITY "DISCOVERED" ON THIS PROJECT WITHOUT ADDITIONAL COSTS.
 - BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITTS & HILL ENGINEERS, INC. SEE SHEET SV1.0 FOR HORIZONTAL AND VERTICAL DATUM.
 - SEE SHEETS C2.9-C2.16, C2.19 AND C2.25 FOR STORM DRAINAGE DETAILS AND NOTES, AND STORM DRAIN PROFILES.
 - ALL CATCH BASIN COVERS/LIDS TO BE BOLT-DOWN. THE CONTRACTOR SHALL SET RINGS AS NECESSARY TO MATCH FUTURE FINISHED GRADE AS NOTED.
 - CONTRACTOR AND/OR SURVEYOR SHALL CALCULATE PIPE SLOPES BASED ON THE INVERT ELEVATIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FIELD STAKING AND CONSTRUCTION.
 - THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING ALL STORM SYSTEMS (EXISTING AND PROPOSED) AND TESC FACILITIES THROUGH THE CONSTRUCTION AND PROJECT COMPLETION.
 - REFER TO STORM DRAINAGE SYSTEM NOTES ON SHEET C2.9 AND THE SPECIFICATIONS FOR THE STORM SYSTEM ELEMENTS.
 - REFER TO SHEET C2.0 FOR OVERALL STORM DRAINAGE SYSTEM IN PHASE 1.
 - THE CONTRACTOR SHALL NOT UTILIZE EITHER THE TREATMENT VAULT OR CONVEYANCE PIPELINE INSTALLATIONS FOR CONSTRUCTION STORMWATER DISCHARGES. PROVIDE TEMPORARY PLUGS UPON THEIR RESPECTIVE INSTALLATIONS TO PROTECT AND PREVENT THEIR USE.
 - SEE U.S. ARMY CORPS OF ENGINEERS REFERENCE NUMBER NWS-787-WRD FOR ALL SHORELINE WORK PERMITTED UP TO ORDINARY HIGH WATER MARK (OHW, 13.50' MLLW) IN THE SPECIFICATIONS.

- KEY NOTES**
- INSTALL STORM TREATMENT VAULT PER DETAILS ON SHEETS C2.10 AND C2.11. PROVIDE STRUCTURE SUPPORT PER DETAIL 2/C2.9.
 - INSTALL STORM DRAINAGE PIPE. PIPE SIZE, MATERIAL AND SLOPE PER CALLOUT. REFER TO STORM DRAINAGE SYSTEM NOTES ON C2.9 FOR SPECIFICATIONS. PIPE BEDDING AND BACKFILL PER DETAIL 1/C2.9.
 - INSTALL CATCH BASIN TYPE 2, STRUCTURE SIZE AND COVER LOCATION PER PLAN, SEE SHEET C2.25 FOR CATCH BASIN DETAILS. PROVIDE UTILITY STRUCTURE BEDDING AND BACKFILL PER DETAIL 2/C2.9. REFER TO STORM DRAINAGE SYSTEM NOTES ON C2.9 AND SPECIFICATIONS.
 - INSTALL OUTFALL STRUCTURE PER SECTIONS ON SHEET C2.12 AND DETAILS ON SHEETS C2.14 AND C2.15
 - CUT 32" Ø HOLE IN EXISTING STEEL SHEET PILE WALL. PROVIDE TRENCH DAM ON WEST SIDE OF EXISTING SHEET PILE WALL.
 - INSTALL 5-FIT LONG CPP PIPE STUB WITH TEMPORARY CAP FOR FUTURE PIPE EXTENSION, PIPE SIZE AND DIRECTION AS SHOWN IN PLAN VIEW. PROVIDE COR-N-SEAL ADAPTER PER DETAIL 1/C2.25
 - PROVIDE TEMPORARY SHEET PILE WALL COFFER DAM FOR OUTFALL CONSTRUCTION. SEE SPECIFICATIONS FOR SHEET PILE WALL DESIGN, CONSTRUCTION, DEWATERING DESIGN AND EXECUTION REQUIREMENTS.
 - PROVIDE (1) TEMPORARY 6" DIAMETER PUMP INLET AND DISCHARGE PIPELINE. CONTRACTOR TO PROVIDE ALL PIPE, FITTINGS AND ALIGNMENT. THE ALIGNMENT SHOWN IS ABOVE GROUND ALONG THE EXISTING FENCE LINE EXCEPT AT THE ACCESS CROSSING. THE ACCESS CROSSING IS BURIED WITH AN 8" DIP SLEEVE (SITTING ON TOP OF FIRST GEOGRID MAT-SEE DETAILS 2 & 3/C2.12). THE TEMPORARY DISCHARGE PIPELINE SHALL BE INSTALLED ABOVE GROUND OVER THE WETLAND AND TERMINATE AT THE PERMANENT QUARRY SPALL APRON PAD. THE PERMANENT QUARRY SPALL APRON PAD SHALL BE INSTALLED PRIOR TO TEMPORARY PUMP SYSTEM WORK, PERMANENT OUTFALL STRUCTURE AND OUTFALL PIPELINE WORK.
 - PROVIDE A TEMPORARY DEWATERING PUMP SYSTEM THAT CONFORMS TO SPECIFICATION REQUIREMENTS.
 - PROVIDE TRENCH DAM PER DETAIL 3/C2.9



KEY PLAN
SCALE: NTS

6697

C2.6

SH # 33 OF 44

ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL

GRADING AND DRAINAGE PLAN - AREA 6

CONTRACT/CONS: PA00000403

M. ID: 101585.01

PHASE: FOR BID

TOWNSHIP: 21 NORTH

DAT-HRZ: WAB3/2011

PARCEL: 0321351053

SECTION: 36

VERT: MLLW 15.73' @ POT MON #178

DRAWING SCALE: AS NOTED

APPROVED: *Matthew J. Hill*

DIRECTOR: *Matthew J. Hill*

PRINTED BY: KreischerK Jul 30, 2026

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

DATE: 06/10/26

DATE: 06/10/26

DATE: Jul 30, 2026

BY: *Matthew J. Hill*

REVISION: 07/30/26

MARK: *Matthew J. Hill*

DATE: 07/30/26

sh sits & hill

CIVIL & STRUCTURAL ARCHITECTURAL SURVEY

4845 CENTER STREET

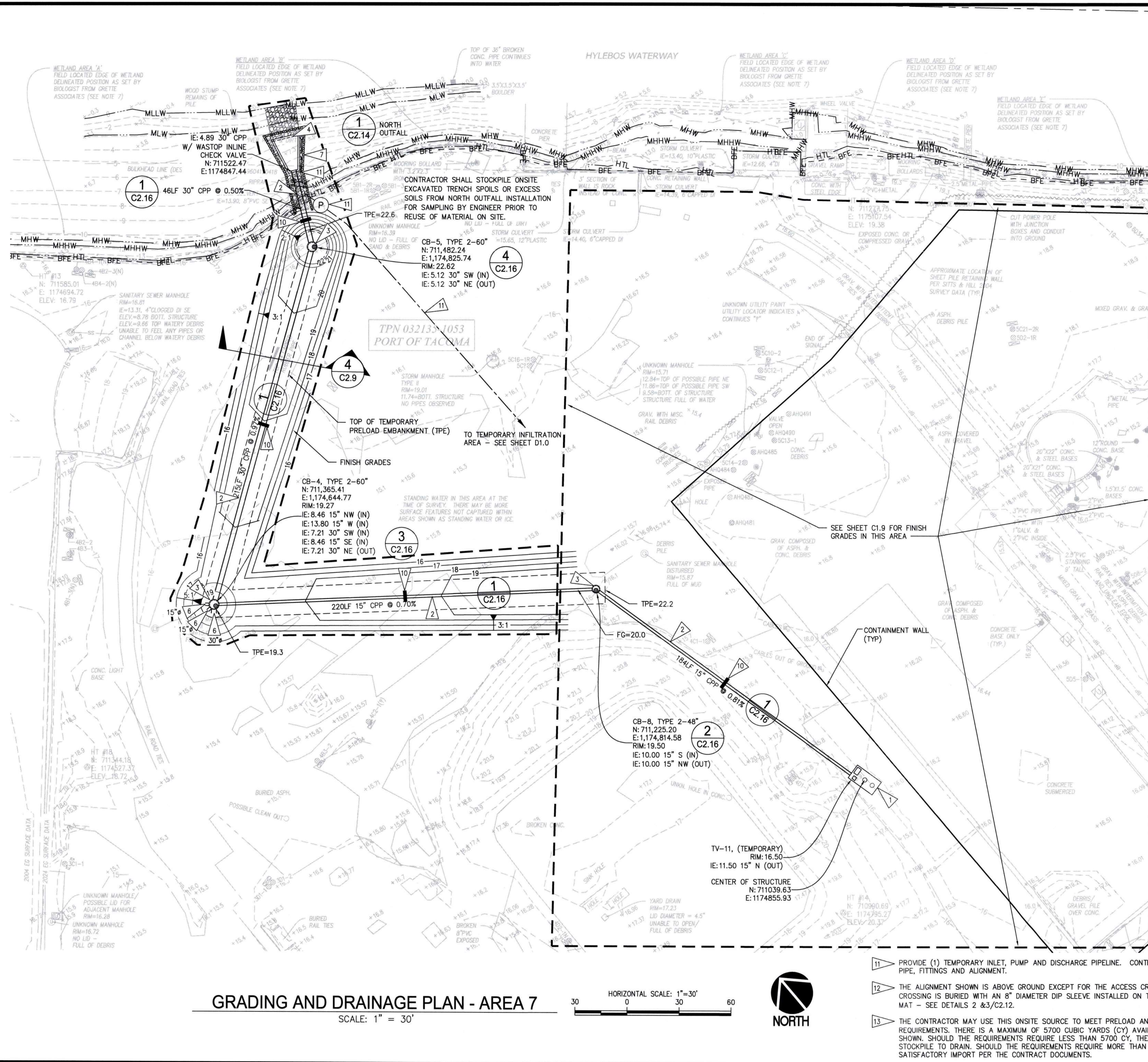
TACOMA, WA 98401

PHONE: (253) 465-1111

FAX: (253) 465-1112

Port of Tacoma

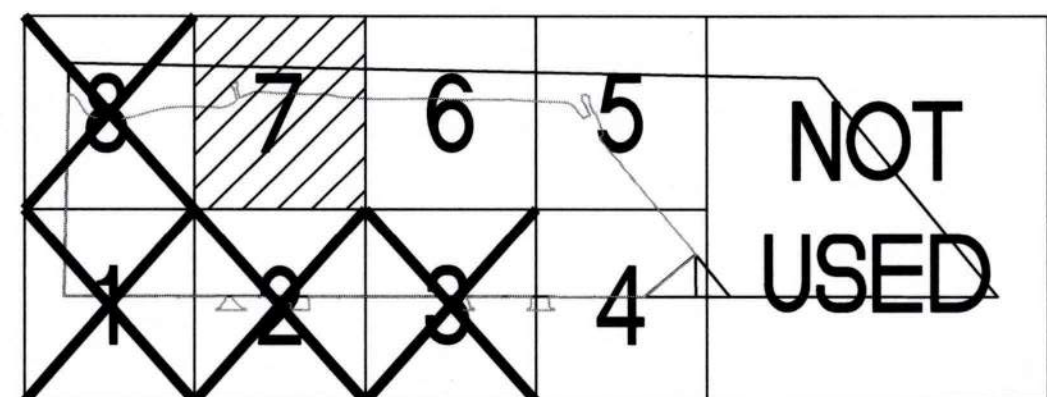
P.O. BOX 1807 TACOMA, WA 98401 (253) 383-5841



| | | | |
|--|---|--|---------------------|
| | STORM DRAIN PIPE | | TYPE 2 CATCHMENT |
| | CONTOUR MAJOR | | TREATMENT |
| | CONTOUR MINOR | | QUARRY SPILL |
| | RIDGE LINE | | TOPSOIL AREA |
| | HIGH TIDE LINE = ELEVATION 13.5 | | GRAVEL CORE 3/C2.12 |
| | MEAN HIGHER HIGH WATER = ELEVATION 11.80 | | TRENCH DAM |
| | MEAN HIGH WATER = ELEVATION 10.92 | | |
| | MEAN LOW WATER = ELEVATION 2.85 | | |
| | MEAN LOWER LOW WATER = ELEVATION 0.00 | | |
| | FEMA BASE FLOOD ELEVATION = 14.5± | | |
| | GRADING LIMITS | | |
| | INLET | | |
| | DISCHARGE | | |
| | TEMPORARY DEWATERING PUMP, INLET AND DISCHARGE PIPING | | |
| | TOP OF TEMPORARY PRELOAD EMBANKMENT (TPE) | | |

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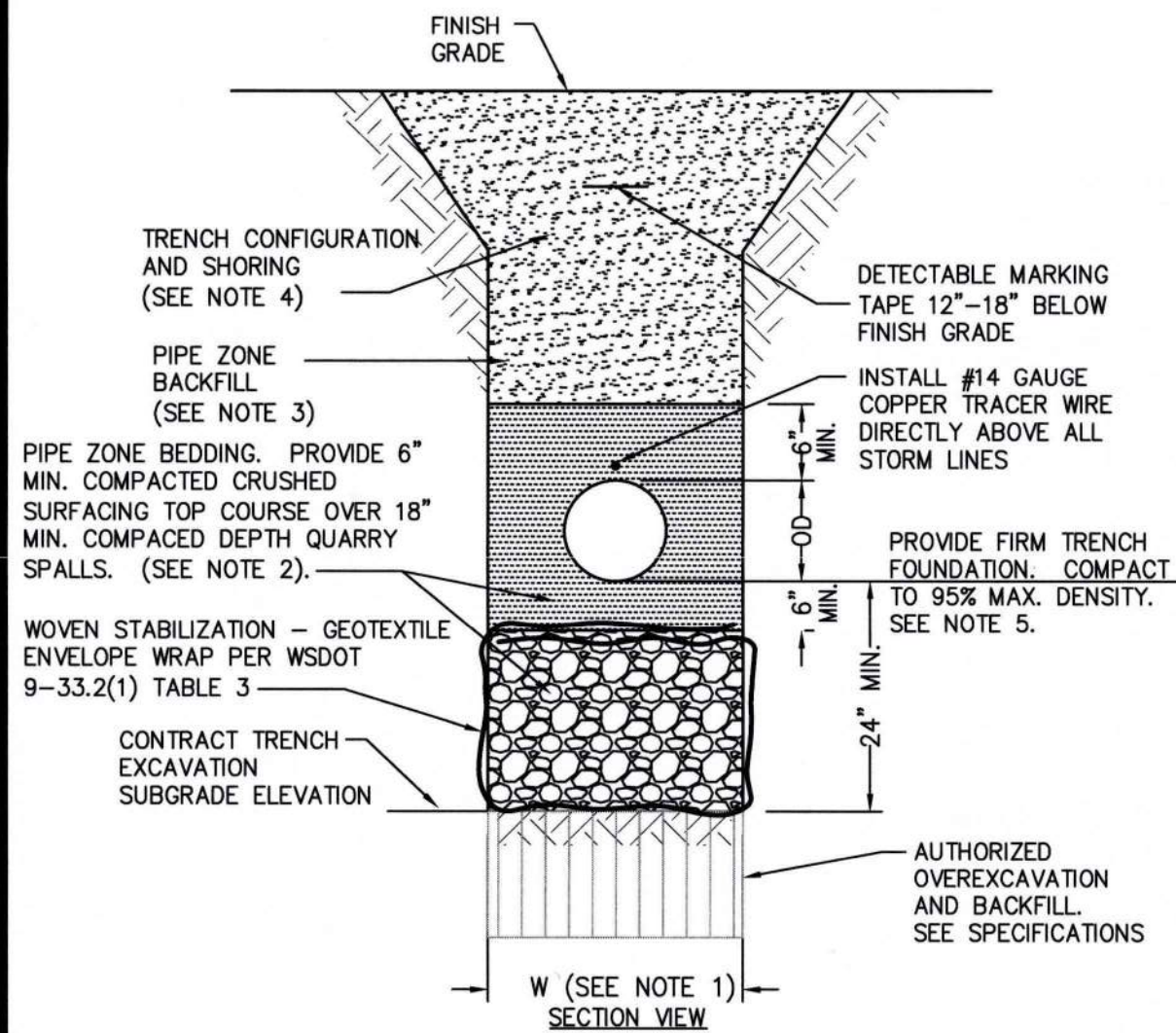
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- 3 INSTALL CATCH BASIN TYPE 2, STRUCTURE SIZE AND COVER LOCATION PER PLAN, SEE SHEET C2.25 FOR CATCH BASIN DETAILS. PROVIDE UTILITY STRUCTURE BEDDING AND BACKFILL PER DETAIL 2/C2.9. REFER TO STORM DRAINAGE SYSTEM NOTES ON C2.9 AND SPECIFICATIONS.
- 4 INSTALL OUTFALL STRUCTURE PER SECTIONS ON SHEET C2.12 AND DETAILS ON SHEETS C2.14 AND C2.15
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SCALE: NTS



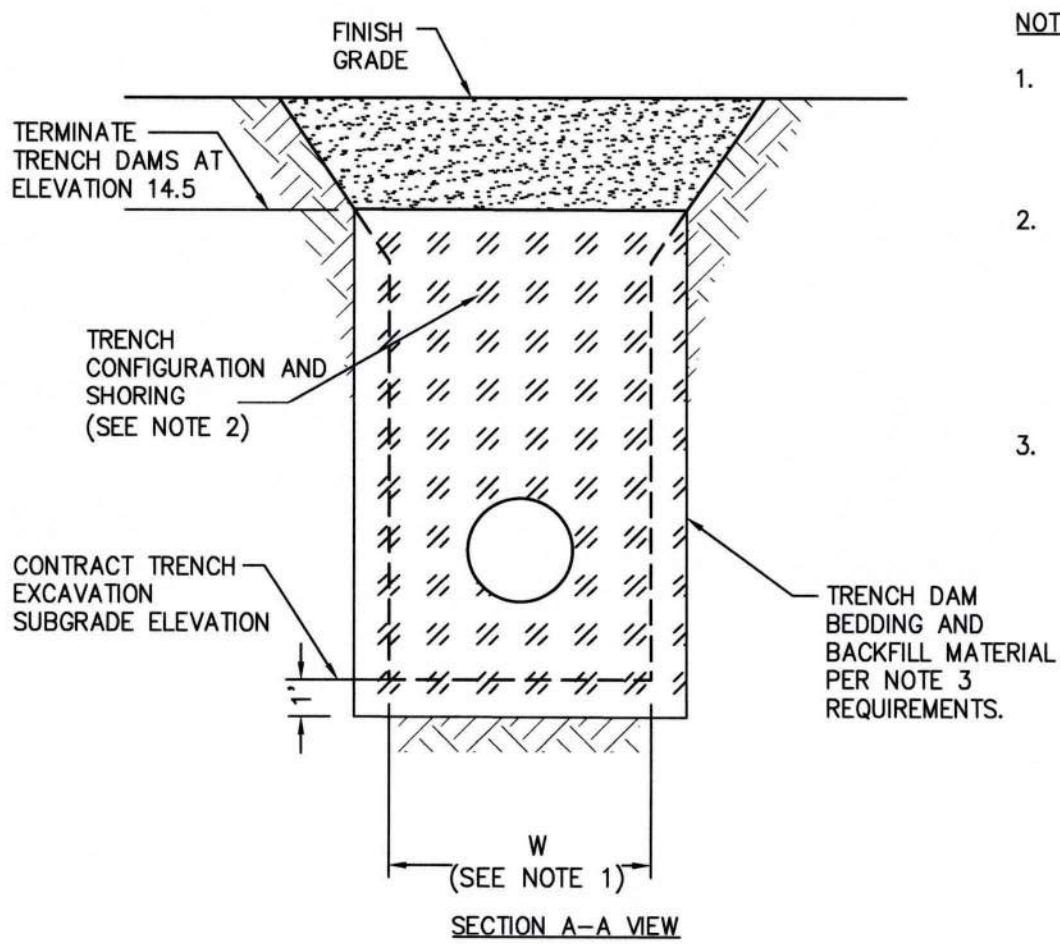
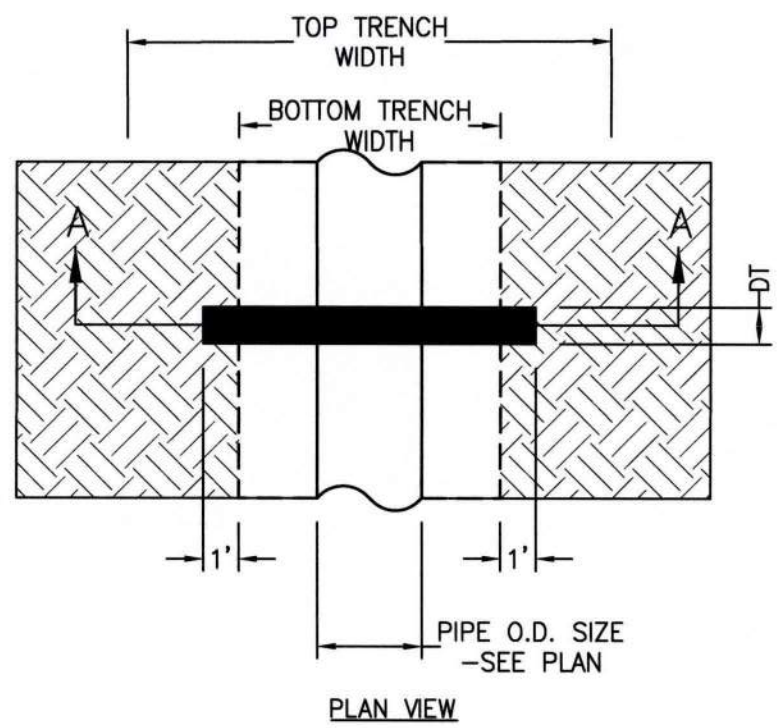
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| 6697
C2.7
SH # 34 OF 44 | | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
GRADING AND DRAINAGE PLAN - AREA 7 | | APPROVED: <i>Shawn Jensen 8/2/20</i>
DIRECTOR ENG. DATE
PRINTED BY: KreischerK Jul 30, 2026
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837 | RCH
CHECKED BY DATE
RCH
PROJ. ENGR DATE
RCH
DATE | 06/10/26
06/10/26
06/10/26 |  | 
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10000 1ST AVE. S.W.
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PHONE (252) 524-4440 FAX (252) 524-4433
http://www.shsitthill.com | P.O. BOX 1837 TACOMA, WA 98401 (252)352-5641
Part of Tacoma | MARK: REVISION: BY: DATE: APPR: DATE: |
|--|--|--|--|--|---|----------------------------------|---|---|---|---------------------------------------|



- NOTES:
- TRENCH WIDTH SHALL BE AS SPECIFIED IN SECTION 2-09.4 OF WSDOT STANDARD SPECIFICATIONS.
 - PIPE ZONE BEDDING SHALL BE CRUSHED SURFACING TOP COURSE IN ACCORDANCE WITH SPECIFICATIONS.
 - PIPE ZONE BACKFILL SHALL BE GRAVEL BORROW IN ACCORDANCE WITH SPECIFICATIONS.
 - TRENCH CONFIGURATION AND SHORING SHALL COMPLY WITH WAC 296-155 PART N, EXCAVATION, TRENCHING AND SHORING REQUIREMENTS.
 - CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER'S GEOTECHNICAL ENGINEER (2) BUSINESS DAYS PRIOR TO UTILITY TRENCH INSTALLATION.

1 PIPE BEDDING AND BACKFILL

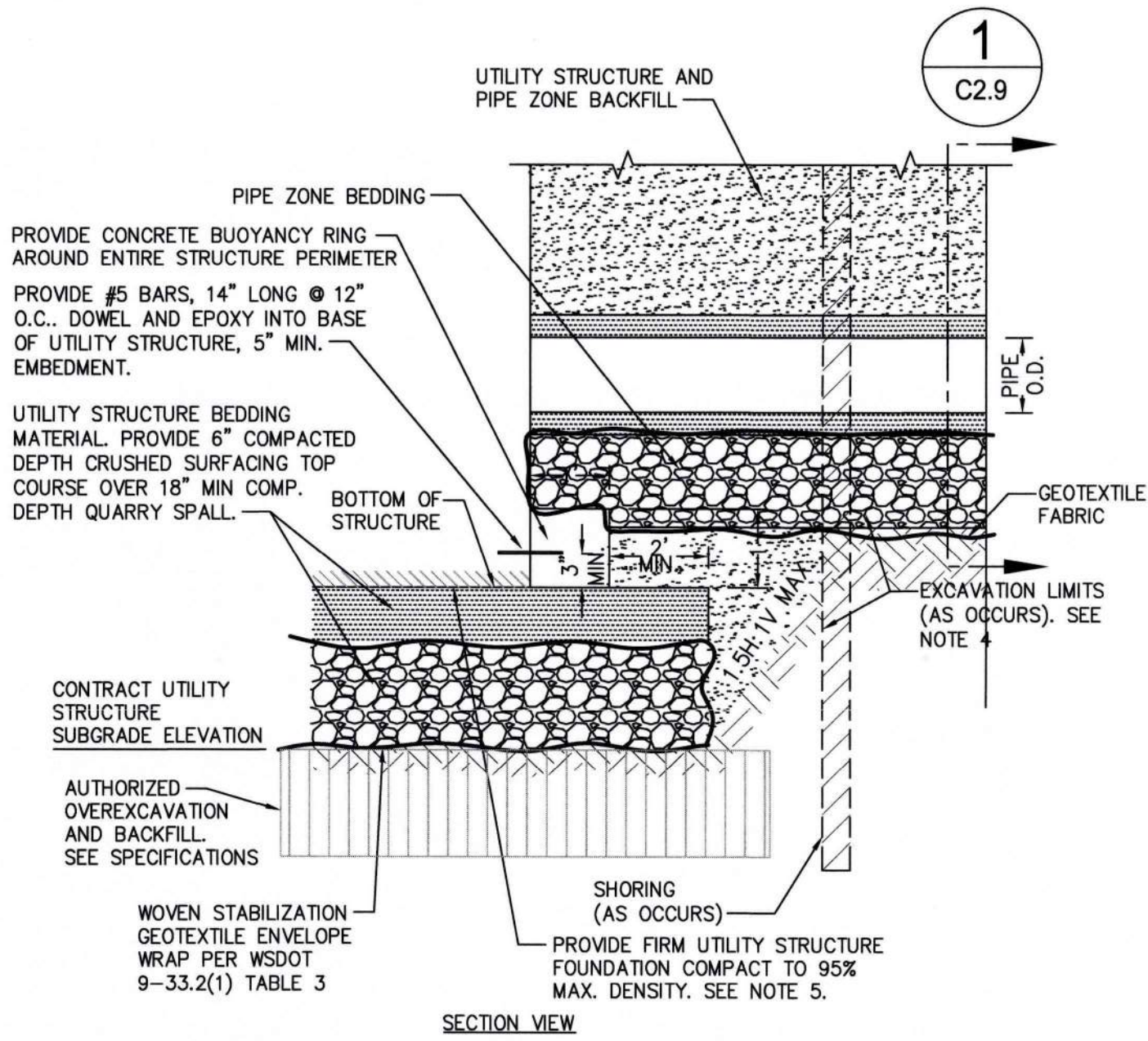
SCALE: NTS



- NOTES:
- TRENCH WIDTH SHALL BE AS SPECIFIED IN SECTION 2-09.4 OF WSDOT STANDARD SPECIFICATIONS.
 - TRENCH CONFIGURATION AND SHORING SHALL COMPLY WITH WAC 296-155 PART N, EXCAVATION, TRENCHING AND SHORING REQUIREMENTS.
 - ALL TRENCH DAM BEDDING AND BACKFILL MATERIAL SHALL BE CONTROLLED DENSITY FILL (CDF) PER SPECIFICATIONS.

3 TRENCH DAM DETAIL

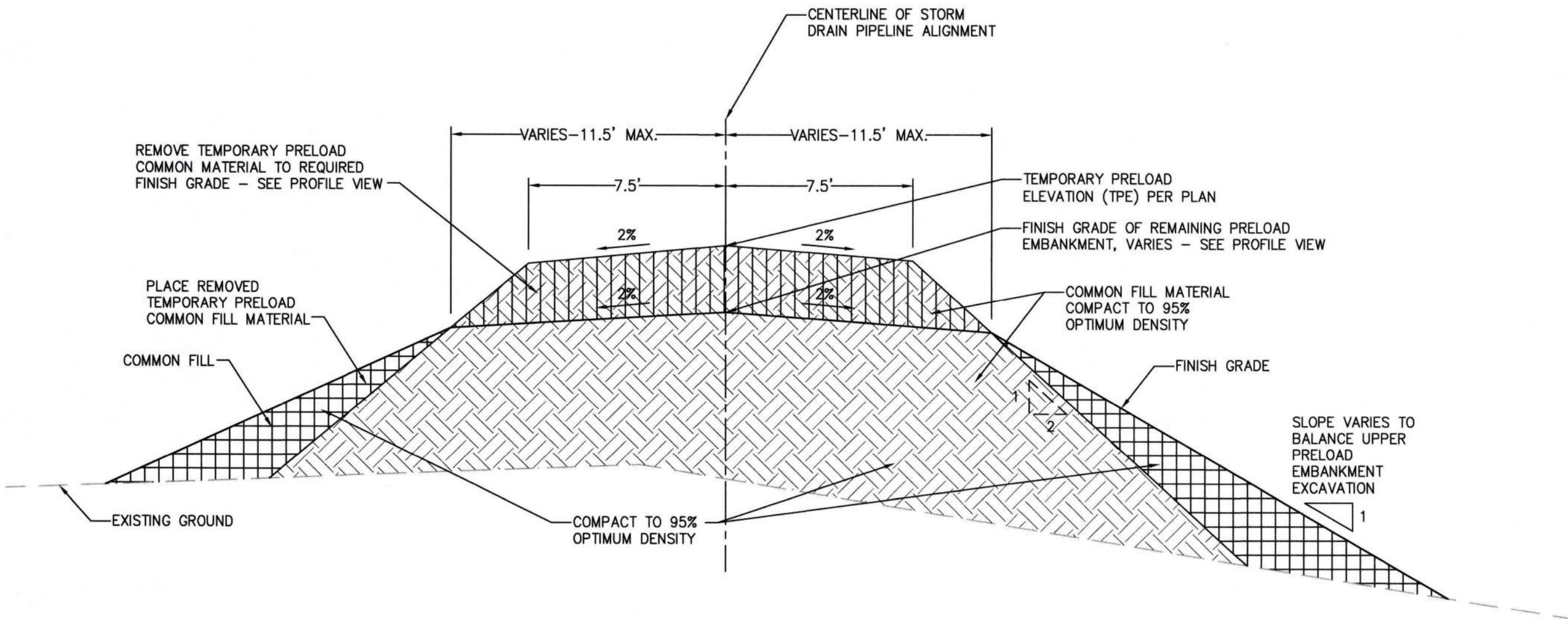
SCALE: NTS



- NOTES:
- UTILITY STRUCTURE EXCAVATION LIMITS SHALL BE PER WSDOT 2-09.4, EXCEPT THAT THE LIMITS SHALL BE REVISED FROM 1' TO BE 3' BEYOND THE OUTSIDE PERIMETER OF THE STRUCTURE.
 - SEE DETAIL 1/C2.9 FOR PIPE ZONE BEDDING REQUIREMENTS.
 - UTILITY STRUCTURE BACKFILL SHALL BE GRAVEL BORROW IN ACCORDANCE WITH SPECIFICATIONS.
 - TRENCH CONFIGURATION AND SHORING SHALL COMPLY WITH WAC 296-155 PART N, EXCAVATION, TRENCHING AND SHORING REQUIREMENTS.
 - CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER'S GEOTECHNICAL ENGINEER (2) BUSINESS DAYS PRIOR TO STRUCTURE INSTALLATION.

2 UTILITY STRUCTURE BEDDING AND BACKFILL

SCALE: NTS



4 PRELOAD EMBANKMENT DETAIL

SCALE: NTS

EXCAVATION NOTES

- EXCAVATE TO ELEVATIONS, LINES AND GRADES INDICATED TO NOT MORE THAN 1/2-INCH ABOVE OR BELOW THAT REQUIRED.
- SLOPE SIDES OF EXCAVATION AS INDICATED OR COMPLY WITH LOCAL CODES AND ORDINANCES HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT. SHORE AND BRACE WHERE SLOPING IS NOT POSSIBLE BECAUSE OF SPACE RESTRICTIONS OR STABILITY OF MATERIAL EXCAVATED.
- STOCKPILE ALL EXCAVATED SOILS AT ONE DESIGNATED ONSITE LOCATION FOR FUTURE REUSE. PLACE, GRADE AND SHAPE STOCKPILES FOR PROPER DRAINAGE. PROVIDE TESC SWPPP BMP'S TO THE STOCKPILE.

SUBGRADE PREPARATION NOTES

- THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND OWNER'S GEOTECHNICAL ENGINEER FOR ALL EXCAVATION TO SUBGRADE INSPECTIONS PRIOR TO PLACEMENT OF ANY SUBSEQUENT FILL OR BACKFILL INSTALLATIONS.
- ALL SUBGRADES SHALL CONSIST OF FIRM, UNYIELDING NATIVE SOILS. UNDER NO CIRCUMSTANCES SHALL STRUCTURES OR UTILITIES FOUNDATIONS BE INSTALLED ATOP LOOSE, SOFT, OR FROZEN SOIL, SLOUGH, DEBRIS, EXISTING UNCONTROLLED FILL, OR SURFACES COVERED BY STANDING WATER. ANY LOCALIZED ZONES OF LOOSER GRANULAR SOILS OBSERVED WITHIN A SUBGRADE SHALL BE COMPACTED TO A DENSITY EQUAL TO THE SURROUNDING SOILS. ANY ORGANIC, SOFT, OR PUMPING SOILS OBSERVED WITHIN A SUBGRADE MAY BE OVEREXCAVATED AND REPLACED WITH UNIT PRICE MATERIAL. UNIT PRICE CONDITIONS SHALL BE VERIFIED AND AUTHORIZED BY THE ENGINEER OR PROJECT GEOTECHNICAL ENGINEER PRIOR TO EXECUTING THE UNIT PRICE WORK.
- ALL AREAS TO BE GRADED SHALL BE CLEARED OF SURFACE AND SUBSURFACE DELETERIOUS MATTER INCLUDING ANY DEBRIS, TREES AND ASSOCIATED STUMPS AND ROOTS AND UNDERBRUSH. GRADED AREAS SHALL BE STRIPPED OF ANY GRASSES, SOD AND ORGANIC LADEN SOILS.
- ALL REQUIRED FILL AND BACKFILL MATERIALS SHALL CONFORM TO SPECIFICATION REQUIREMENTS.
- GEOTEXTILE FABRICS SHALL CONFORM WITH DRAWING AND SPECIFICATION REQUIREMENTS. INSTALLATION OF FABRIC SHALL CONFORM WITH WSDOT SPECIFICATION 2-12.

COMPACTION NOTES

- CONTROL SOIL COMPACTION DURING CONSTRUCTION. PROVIDE MINIMUM PERCENTAGE OF DENSITY SPECIFIED FOR EACH AREA CLASSIFICATION. PERCENTAGES ARE RELATED TO MAXIMUM DRY DENSITY AS MEASURED IN CONFORMANCE WITH ASTM D 1557.
- COMPACT ALL SUBGRADES TO 95-PERCENT OF MAXIMUM DRY DENSITY UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS.

STORM DRAINAGE SYSTEM NOTES

- STORM PIPE BEDDING AND BACKFILL SHALL BE PER DETAIL 1/C2.9.
- ALL UTILITY STRUCTURES SHALL WITHSTAND THE SPECIAL PORT OF TACOMA LOADING REQUIREMENTS.
- STORM STRUCTURES SHALL BE INSTALLED PER WSDOT STANDARD SPECIFICATIONS 7-05.
- CORRUGATED POLYPROPYLENE PIPE (CPP) AND FITTINGS: SHALL BE DUAL WALL AND COMPLY WITH WSDOT 9-05.24 REQUIREMENTS. ALL CPP JOINTS AND FITTINGS SHALL BE WATERTIGHT AND PASS A LOW PRESSURE AIR TEST IN ACCORDANCE WITH WSDOT 7-04 REQUIREMENTS.
- GRAVITY STORMWATER SYSTEM SHALL BE LOW PRESSURE AIR TESTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 7-04.3(1)F. AT THE OWNER'S DISCRETION, UTILITY STRUCTURES, SUCH AS, CATCH BASINS, MANHOLES, VAULTS OR OTHER ANCILLARY PIPE SYSTEMS MAY BE HYDROSTATICALLY TESTED TO THE OWNER'S SATISFACTION (E.G. PLUG PIPES, FILL STRUCTURE TO SET ELEVATION WITH WATER, AND OBSERVE WATER LEVEL DEVIATION OVER A SET PERIOD OF TIME).
- PROVIDE 1.0' MINIMUM VERTICAL AND 5' MINIMUM HORIZONTAL CLEARANCE (OUTSIDE SURFACES) BETWEEN STORM DRAIN PIPES AND OTHER UTILITY PIPES AND CONDUITS, UNLESS OTHERWISE NOTED.
- DETECTABLE MARKING TAPE SHALL BE INSTALLED ALONG THE FULL LENGTH OF STORM UTILITY. DETECTION TAPE SHALL BE 6-INCH WIDTH (MINIMUM), CONTAIN A 3.5 MIL SOLID ALUMINUM CORE, BE A MINIMUM OF 5.0 MIL OVERALL THICKNESS, AND BE SUITABLE FOR DIRECT BURY. THE TAPE SHALL BE COLOR CODED ACCORDING TO AWWA AND CONTINUOUSLY IMPRINTED WITH THE TYPE OF UTILITY FOR UTILITY SHOWN.
- TERMINATE TRACER WIRE INSIDE OF THE UTILITY STRUCTURE AT THE HIGHEST LADDER RUNG. PROVIDE 1' OF COILED EXCESS WIRE AT THE LADDER RUNG.
- SEE SHEETS C2.10 AND C2.11 FOR TREATMENT VAULT DETAILS.
- ALL UTILITY STRUCTURES SHALL BE PROVIDED WITH EXTERIOR BITUMASTIC COATING, 18 MILS DFT MINIMUM.

| | | | | | | |
|---|---|--|---|-----|--------------------------------|----------------|
| 6697
C2.9
SH # 35 OF 44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
STORM DRAINAGE NOTES AND DETAILS | | APPROVED: <i>[Signature]</i> | RCB | CHECKED BY: <i>[Signature]</i> | DATE: 06/10/26 |
| | TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 36
DAT-HRZ: WA83/2011 VERT: MLLW 15.73' @ POT MON #178
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M. ID: 101585.01
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Richard C. Helms
Professional Engineer
No. 17780
State of Washington
Exp. 07/30/28

| | | | |
|-------|-----------|-----|-------|
| MARK: | REVISION: | BY: | DATE: |
| | | | |



- TREATMENT VAULT

BASIS OF DESIGN:
FMM CAGE SIDE SURFACE AREA = 120.4 SF
FMM CAGE TOP SURFACE AREA = 66.7 SF
FMM CAGE SURFACE AREA = 187.1 SF
TREATMENT RATE = 1 GPM/SF
REQUIRED VAULT TREATMENT CAPACITY = 187.7 GPM (0.42 CFS)

ELEVATIONS

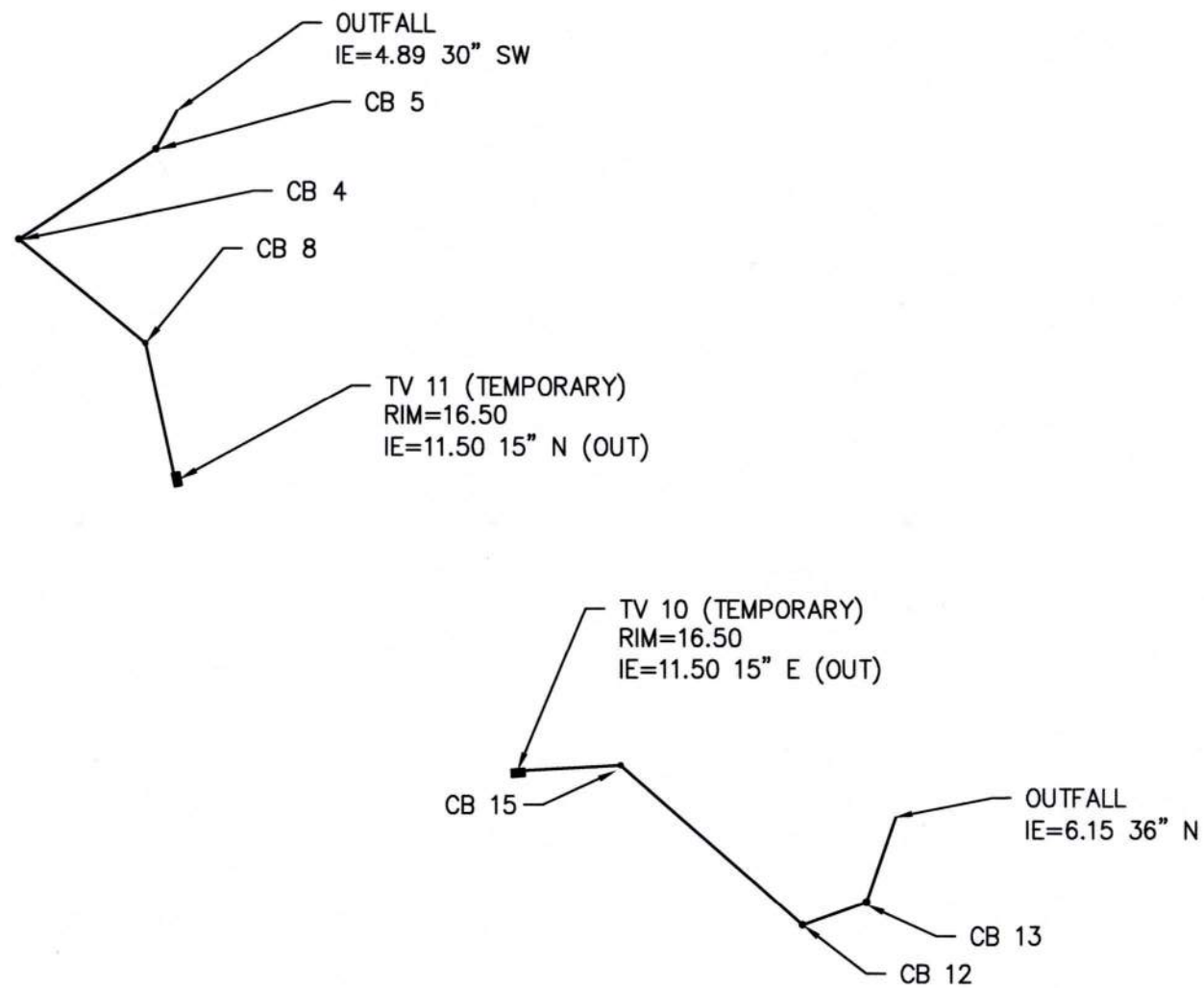
A=41" ABOVE VAULT FLOOR, 39.5" WITH ONE 1.5" X 1.5" SS ANGLE IRON SET ON TOP OF CONCRETE WALL. PROVIDE BED OF CAULK AND CONCRETE ANCHORS TO SEAL OFF.

B=24" ABOVE VAULT FLOOR

C=34" ABOVE VAULT FLOOR, 35" W/ TWO 2x4 FLASHBOARDS

D=6" ABOVE VAULT FLOOR

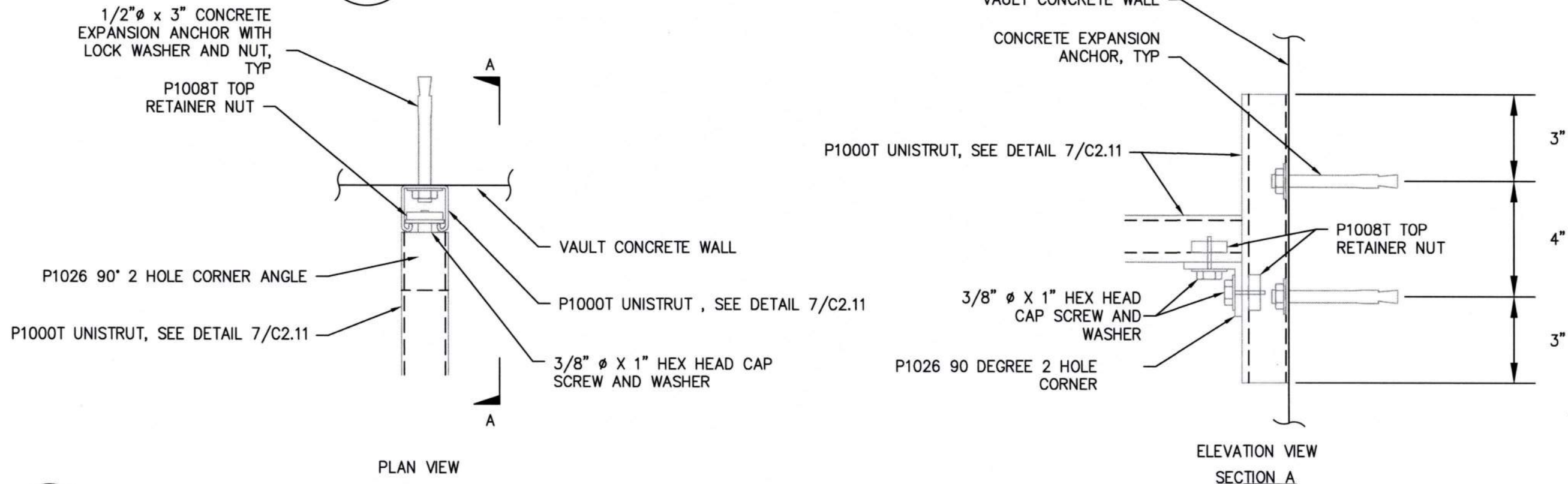
E=47" ABOVE VAULT FLOOR



B TREATMENT VAULTS PLAN

C2.1-C2.8

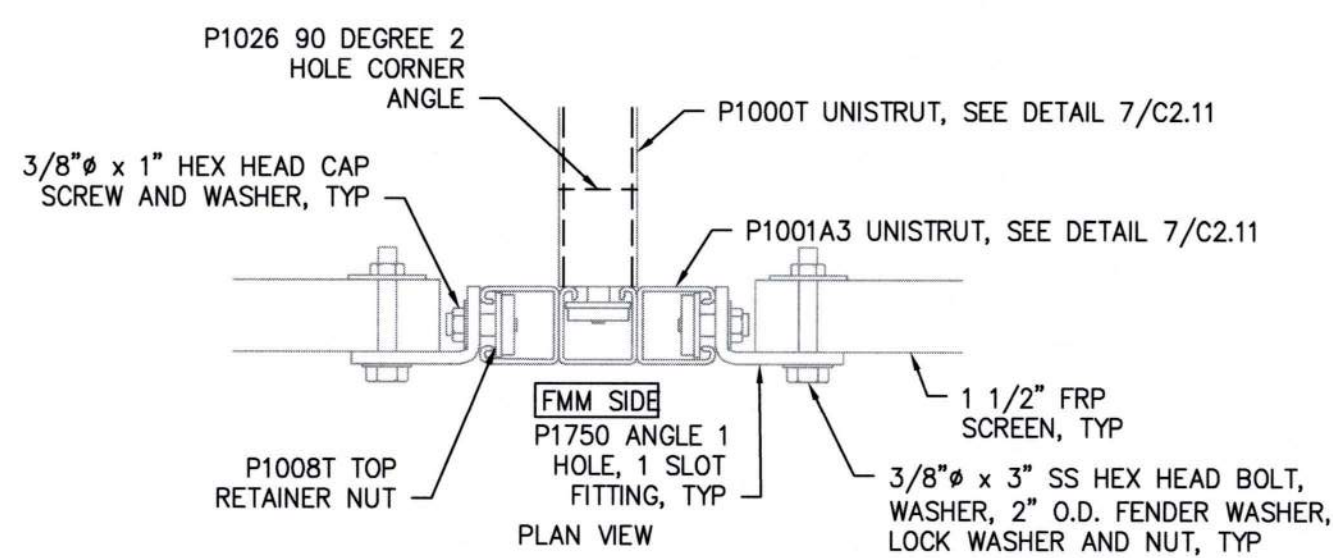
SCALE: 1"=250'



1 END UNISTRUT FRAMING DETAIL

C2.10

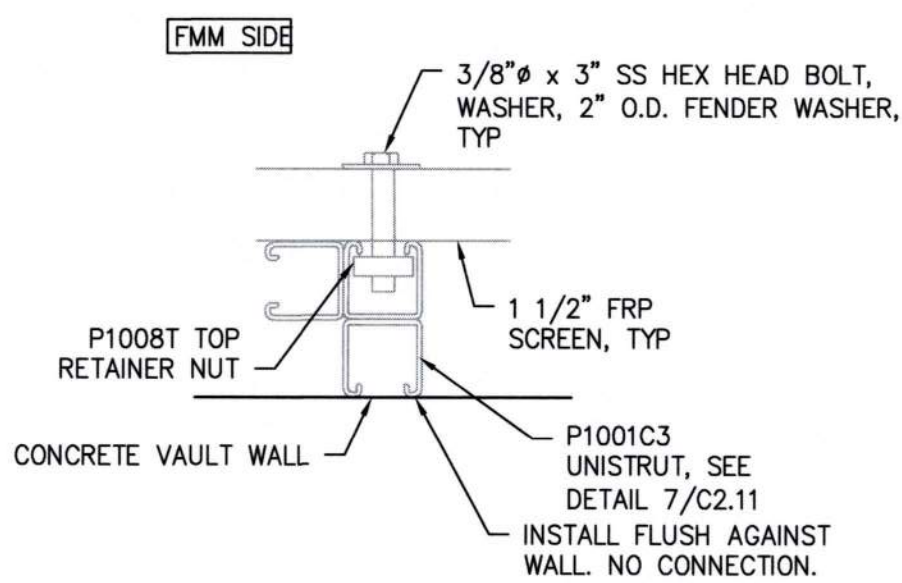
SCALE: N.T.S.



4 SUPPORT UNISTRUT FRAMING DETAIL

C2.10

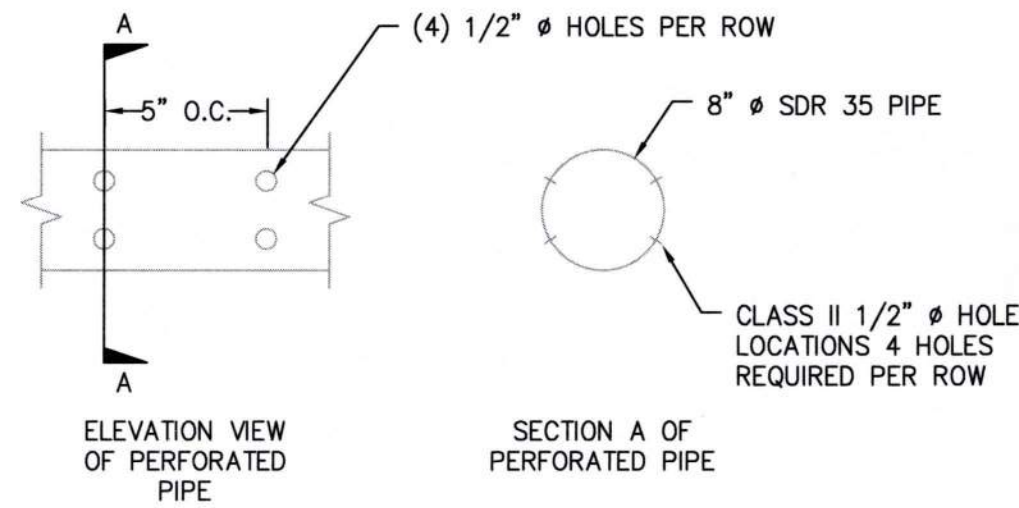
SCALE: N.T.S.



5 SIDE UNISTRUT FRAMING DETAIL

C2.10

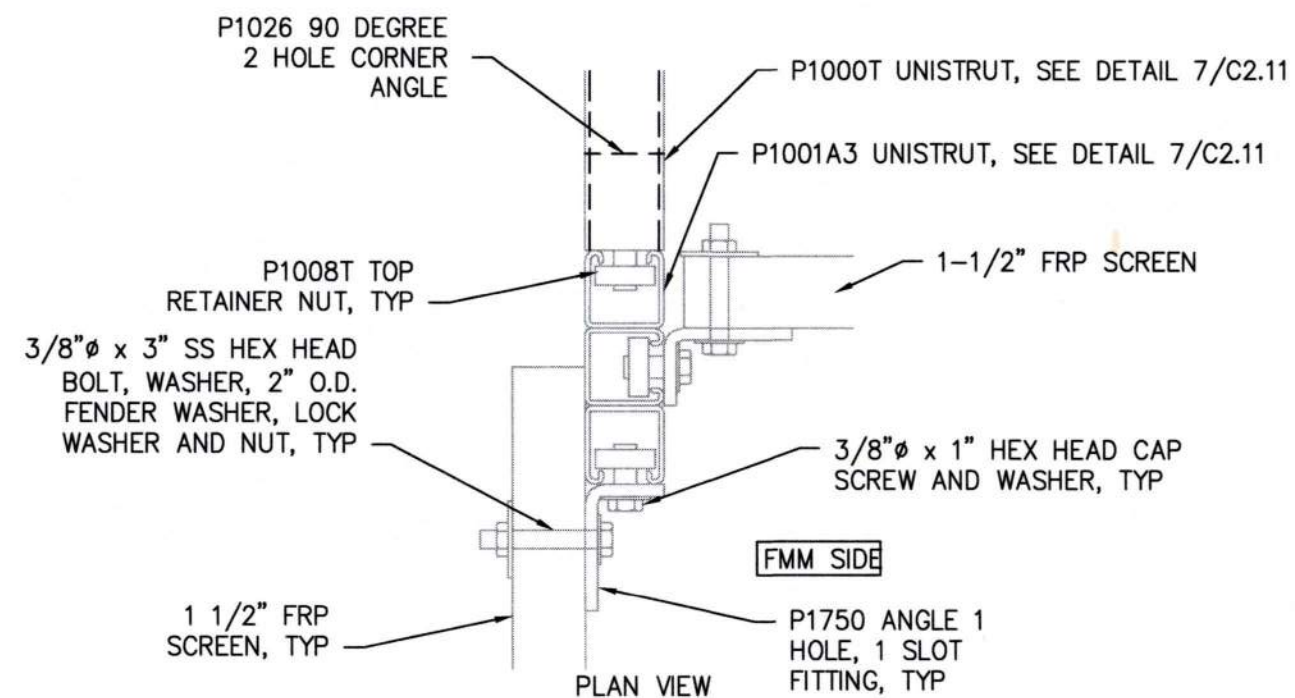
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C PERFORATED PIPE DETAIL

C2.10

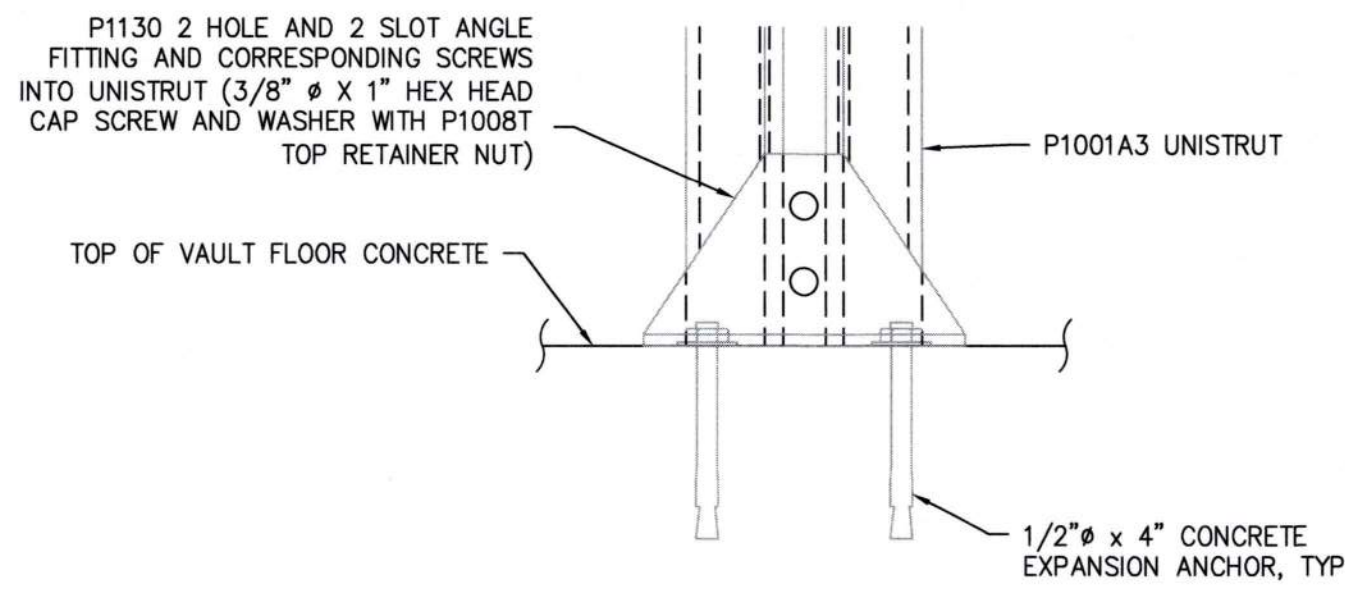
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2 CORNER UNISTRUT FRAMING DETAIL

C2.10

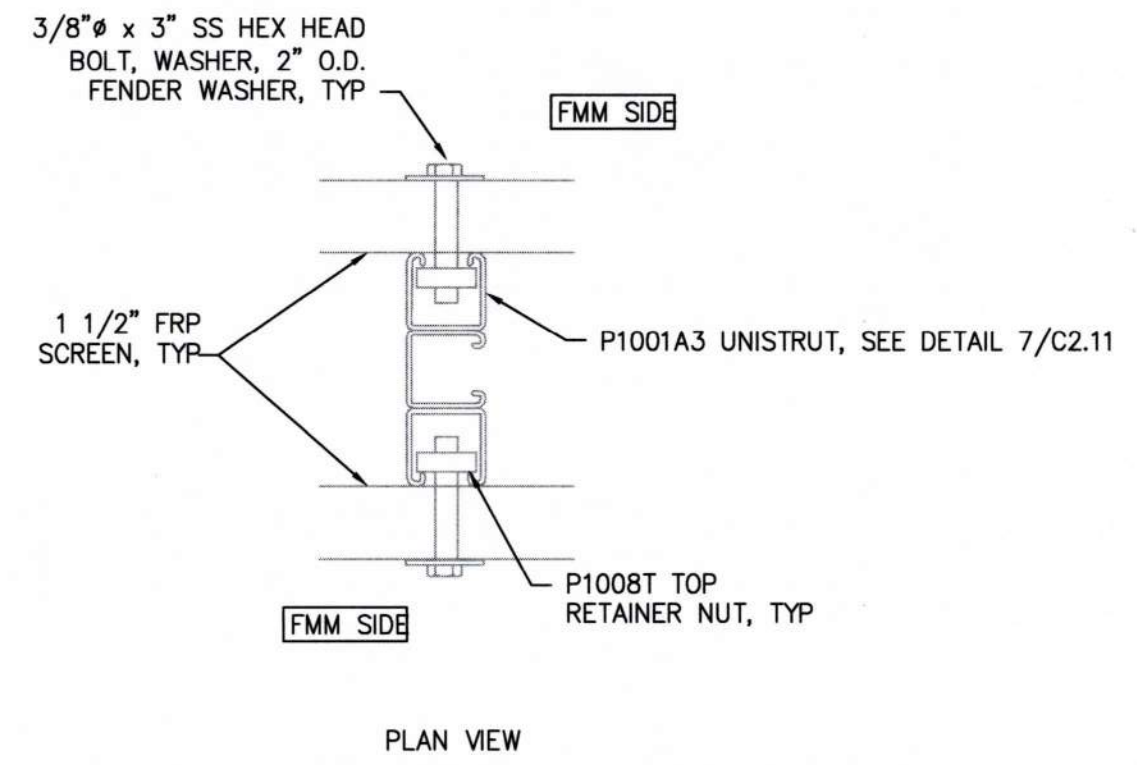
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6 DETAIL

C2.10

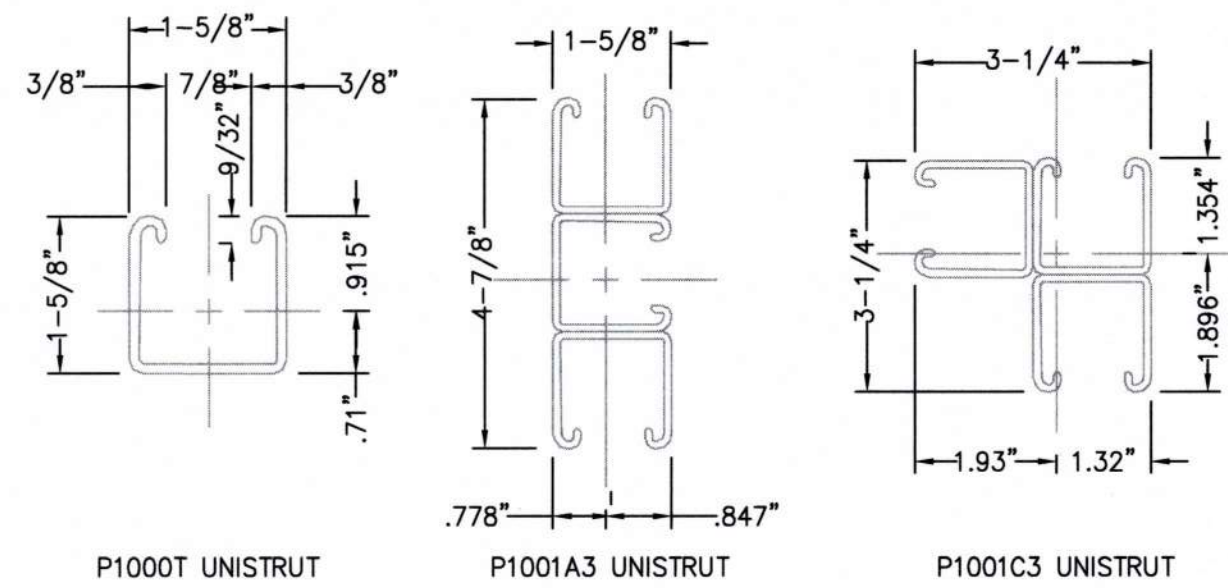
SCALE: N.T.S.



3 SPACE UNISTRUT FRAMING DETAIL

C2.10

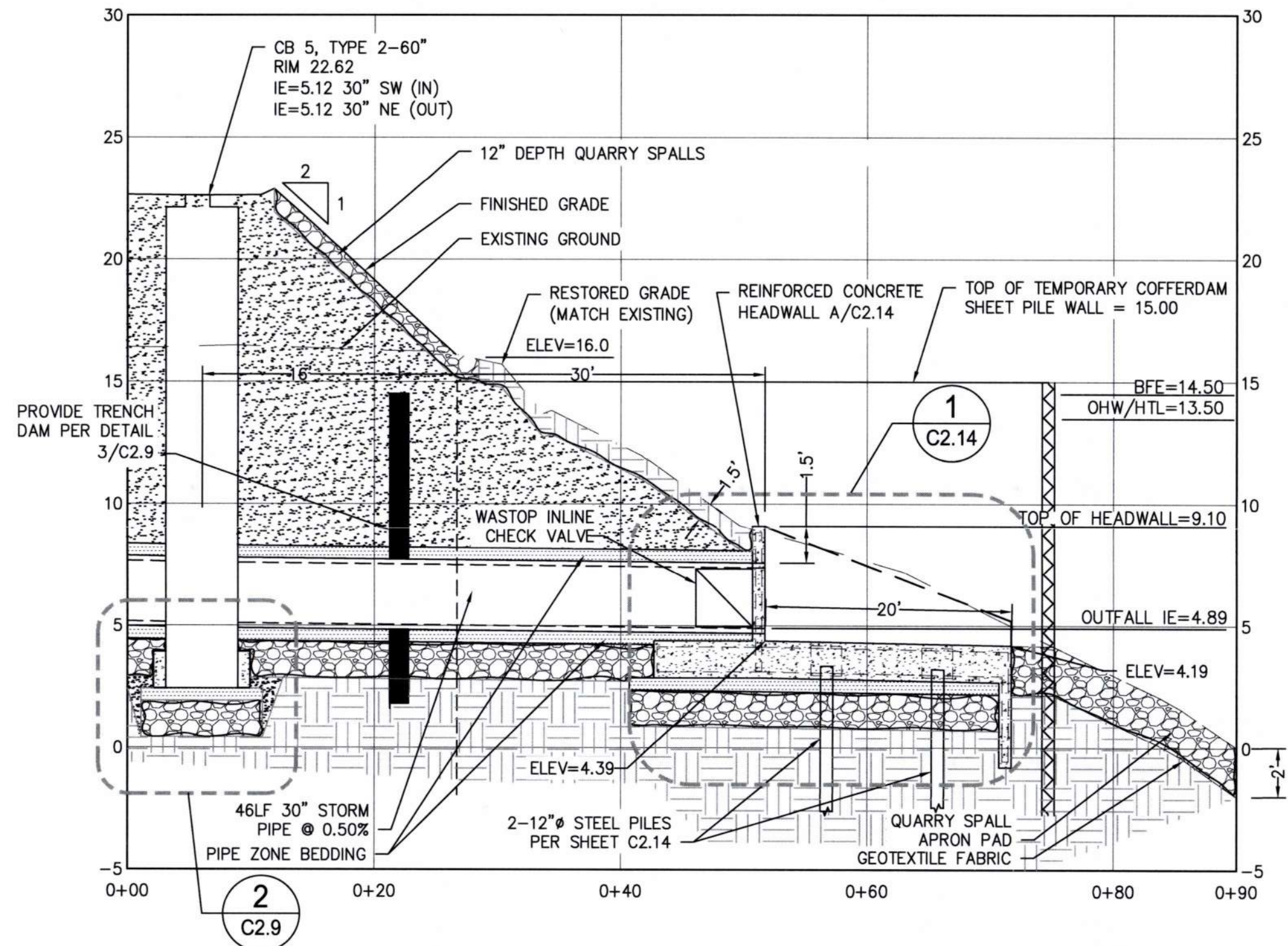
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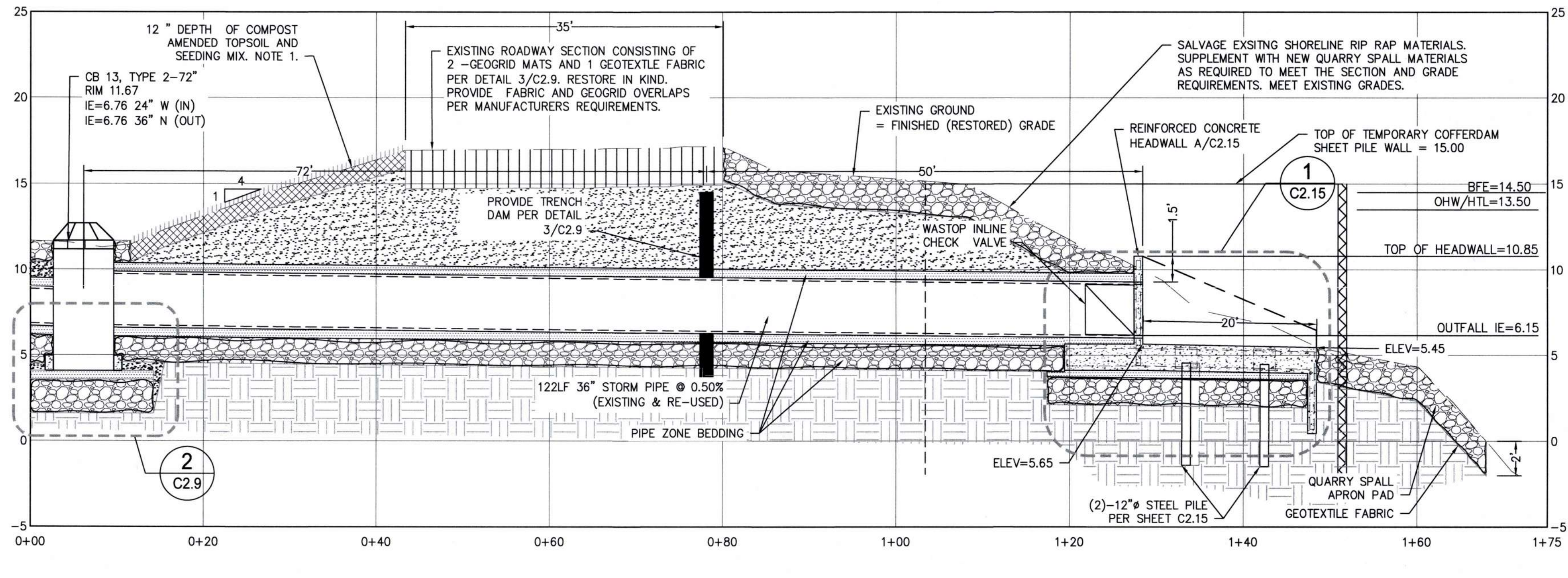
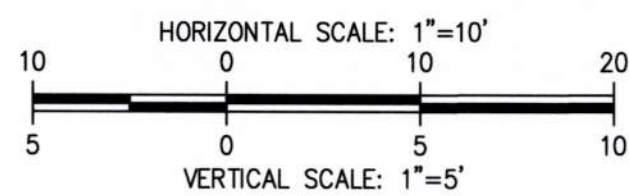
7 UNISTRUT SECTIONS

C2.10

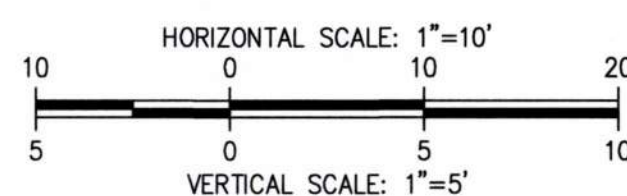
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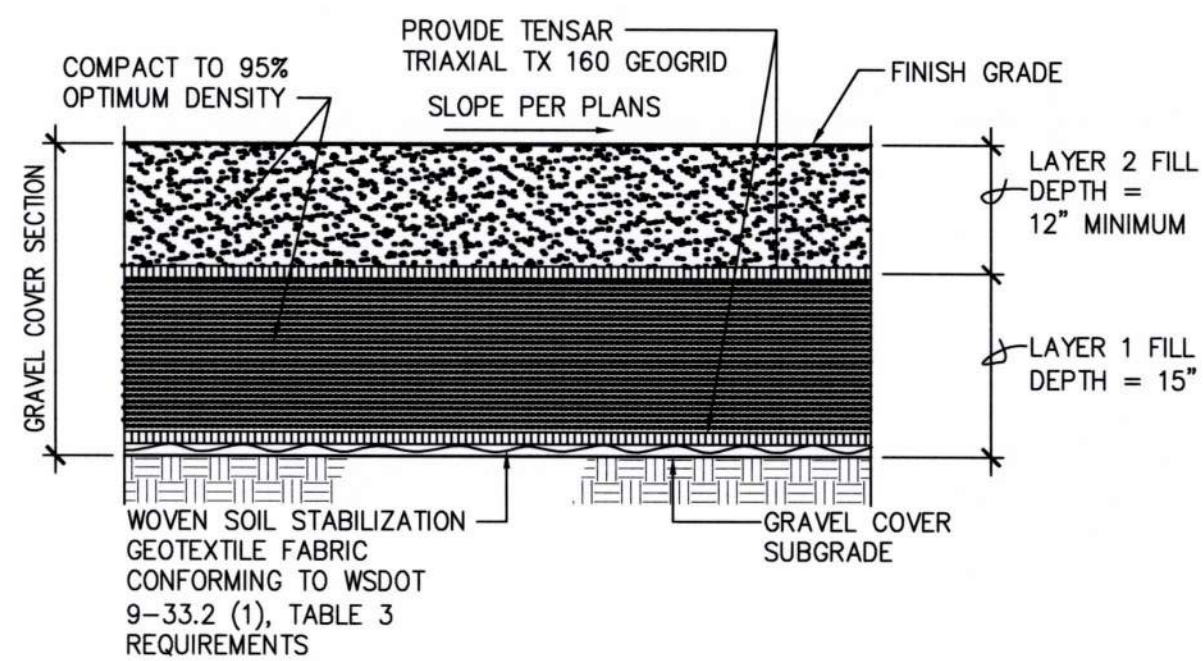
1 NORTH OUTFALL
SCALE: H: 1"=10' V: 1"=5'



2 SOUTH OUTFALL
SCALE: H: 1"=10' V: 1"=5'



NOTE 1:
SEE SPECIFICATIONS REGARDING THE TOPSOIL, COMPOST AND SEEDING REQUIREMENTS.
PROVIDE EROSION CONTROL BLANKET AFTER SEED INSTALLATION.



3 GRAVEL COVER SECTION
SCALE: N.T.S.

GRAVEL COVER NOTES:

- LAYER 1 GRAVEL COVER MATERIAL SHALL CONSIST OF MINED AND CRUSHED BEDROCK OR CRUSHED SAND AND GRAVEL DEPOSITS.
- LAYER 2 GRAVEL COVER MATERIAL SHALL CONSIST OF MINED AND CRUSHED BEDROCK, CRUSHED SAND AND GRAVEL DEPOSITS OR "PIT-RUN" MATERIALS ARE NOT ACCEPTABLE.

- LAYER 3 GRAVEL COVER SHALL MEET THE FOLLOWING REQUIREMENTS FOR ROCK QUALITY:
 - LOS ANGELES WEAR, 500 REVOLUTIONS - 30 PERCENT MAXIMUM LOSS
 - DEGRADATION FACTOR - 30 MINIMUM

- LAYER 4 GRAVEL COVER SHALL MEET THE FOLLOWING GRADATION:

| SIEVE SIZE | PERCENT PASSING |
|------------|--------------------------|
| 1-1/4" | 99-100 |
| 1" | 80-100 |
| 5/8" | 50-80 |
| NO. 4 | 25-45 |
| NO. 40 | 3-18 |
| NO. 200 | 7.5 MAX. |
| % FRACTURE | SEE FRACTURE NOTES BELOW |

- LAYER 5 FRACTURE NOTES:
 - FOR LAYER 1 (THE LOWER LAYER OF GRAVEL COVER MATERIAL), A MINIMUM OF 90 PERCENT OF THE PARTICLES RETAINED ON THE NO. 4 SIEVE SHALL HAVE AT LEAST TWO FRACTURED FACES.
 - FOR LAYER 2 (THE FINAL TOP LAYER OF GRAVEL COVER MATERIAL) A MINIMUM OF 95 PERCENT OF THE PARTICLES RETAINED ON THE NO. 4 SIEVE SHALL HAVE AT LEAST THREE FRACTURED FACES.

6697
C2.12
SH # 38 OF 44

CONTRACT/CONS: PA00000403
M. ID: 101585.01
PHASE: FOR BID

ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
OUTFALL PROFILES

TOWNSHIP: 21 NORTH
RANGE: 3 EAST
SECTION: 36
DATE-HRZ: WA83/2011
VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053
DRAWING SCALE: AS NOTED

APPROVED:

CH
CHECKED BY:

PROJ. ENGR. DATE: 06/10/26

PRINTED BY: KreischerK Jul 30, 2026

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

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GENERAL STRUCTURAL NOTES (GSN)

BUILDING CODE:

2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), WITH STATE OF WASHINGTON AMENDMENTS SHALL BE USED AND SUPPLEMENTED WITH (ASCE) 7-16.

ALL CODE REFERENCES HEREFTER SHALL CORRESPOND TO THE FOLLOWING EDITIONS, U.N.O.:

MATERIAL CODES
CONCRETE ACI 318-19.
REINFORCING 2004 ACI DETAILING MANUAL (ACI SP-66).
MANUAL OF STEEL CONSTRUCTION - 15TH EDITION.
(AWS) STRUCTURAL WELDING CODE / STEEL - AWS D1.1-20.
AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) STANDARDS.

STRUCTURAL STEEL:

ALL CONSTRUCTION SHALL BE PER AISC STEEL CONSTRUCTION MANUAL.

STEEL PIPE PILES:

ALL STEEL PILING SHALL CONFORM TO ASTM A252. ALL PILES SHALL BE GALVANIZED GRADE 3 (FY=45 KSI) WITH 1/2" WALL THICKNESS WITH PLAIN ENDS AND SHALL BE STRAIGHT SEAM WELDED. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

PROTECTIVE COATINGS FOR STEEL AND COMPONENTS:

ALL STEEL SHALL BE GALVANIZED. GALVANIZING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM A123 TO DEPOSIT ZINC (HOT GALVANIZED) COATING ON PRODUCTS FABRICATED FROM ROLLED, PRESSED AND FORGED STEEL SHAPES, PLATES, BARS AND STRIPS.

COATING THICKNESS: COATING THICKNESS SHALL BE AS SPECIFIED IN ASTM A123 FOR THE CATEGORIES AND THICKNESSES OF MATERIAL TO BE COATED. IF COATING THICKNESS IS TO BE MEASURED IN INCH-POUNDS, COATING THICKNESS SHALL MEET THE REQUIREMENTS OF ASTM A123 GRADE 100 (2.3 OZ./SQ. FT.), WITH A MINIMUM OF GRADE 85 (2.0 OZ./SQ. FT) FOR INDIVIDUAL SPECIMENS. TESTS OF COATING THICKNESS REQUIRED BY ASTM A123 SHALL BE DOCUMENTED AND SUBMITTED TO THE ENGINEER.

FIELD REPAIR: FIELD REPAIR OF DAMAGED COATING SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. FIELD REPAIR OF DAMAGED ZINC COATING SHALL BE DONE IN ACCORDANCE WITH ASTM A780 ANNEX A1. THE MINIMUM THICKNESS OF THE REPAIR COAT SHALL BE EQUAL TO THE THICKNESS OF THE COATING AS ORIGINALLY SPECIFIED.

HANDLING: AFTER SHOP FABRICATION AND COATING, STRUCTURAL STEEL MEMBERS SHALL BE HANDLED WITH SUFFICIENT CARE TO MINIMIZE DAMAGE DURING SHIPMENT. SUFFICIENT DUNNAGE SHALL BE USED TO PREVENT ANY RUBBING OF STEEL TO STEEL.

FOUNDATIONS:

PIPE PILES:

ALL STEEL PIPE PILES SHALL BE OPEN-ENDED AND DRIVEN TO REFUSAL IN ACCORDANCE WITH SECTION 6-05 OF THE 2024 WSDOT STANDARD SPECIFICATIONS TO THE FOLLOWING ELEVATIONS BELOW FINISHED GRADE FOR A NOMINAL (ULTIMATE) CAPACITY OF 180 KIPS WITH A MAXIMUM SAFETY FACTOR OF 1.5:

NORTH OUTFALL: MINIMUM TIP ELEVATION: -35 FEET
NORTH OUTFALL: ESTIMATED TIP ELEVATION: -70 FEET
NORTH OUTFALL: OVERDRIVING ALLOWANCE: 0 KIPS

SOUTH OUTFALL: MINIMUM TIP ELEVATION: -35 FEET
SOUTH OUTFALL: ESTIMATED TIP ELEVATION: -60 FEET
SOUTH OUTFALL: OVERDRIVING ALLOWANCE: 0 KIPS

PILE SUPPORTED CONCRETE SLABS:

CONCRETE SLABS SHALL BE PLACED ON 6" OF COMPACTED CRUSHED SURFACING BASE COURSE OVER 18" OF QUARRY SPALLS AND GEOTEXTILE FABRIC WRAP IN ACCORDANCE WITH DETAIL 2/C2.9 EXISTING SUBBASE.

FOUNDATION EXCAVATION SHALL BE INSPECTED BY SOILS ENGINEER OR SPECIAL INSPECTOR PRIOR TO PLACEMENT OF CONCRETE. PILE INSTALLATION SHALL HAVE SPECIAL INSPECTION PER THE FOLLOWING NOTES.

CONCRETE:

MINIMUM 28-DAY STRENGTH OF CONCRETE SHALL BE 4,000 PSI.

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED. MAXIMUM SLUMP IS 4 1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. MAXIMUM WATER/CEMENT RATIO (W/C) SHALL BE 0.42. USE 1" MINUS COARSE AGGREGATE FOR CONCRETE 6 INCHES THICK AND GREATER; USE 3/4" MINUS COARSE AGGREGATE FOR THINNER SECTIONS.

FLY ASH, IF USED, SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS. NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

PROVIDE AIR ENTRAINMENT (5% +/- 1%) IN CONCRETE EXPOSED TO FREEZE-THAW ACTION.

PROVIDE MEDIUM BROOM FINISH AT ALL HORIZONTAL SURFACES.

REINFORCING STEEL FOR CONCRETE:

USE ASTM A615, GRADE 60 (FY = 60 KSI), DEFORMED BARS FOR ALL BARS. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. ACI 318 SHALL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

| | |
|---|--------|
| CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3" |
| EXPOSED TO EARTH OR WEATHER | |
| #6 OR LARGER | 2" |
| #5 AND SMALLER | 1 1/2" |
| FLAT SLAB | 3/4" |
| ALL OTHER PER A.C.I. 318. | |

CONCRETE CONTINUED:

LAP SPLICES IN CONCRETE:

LAP SPLICES, U.N.O., SHALL BE CLASS "B" TENSION LAP SPLICES PER ACI 318. STAGGER SPLICES A MINIMUM OF (1) LAP LENGTH. ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE AND CORROSION.

REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS PER TYPICAL DETAILS. ALL BARS SHALL BE PER ACI SP-66. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90-DEGREE HOOKS, U.N.O. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

EVAPORATION REDUCER:

CONFLIM BY MASTER BUILDERS OR APPROVED EQUIVALENT. SPRAY APPLY IMMEDIATELY AFTER SCREEDING, 300 SF PER GALLON.

CURING AGENTS:

L&M CURE BY L&M CONSTRUCTION CHEMICALS OR APPROVED EQUIVALENT.

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW.

VERIFY ALL DIMENSIONS WITH CIVIL ENGINEER AND OWNER.

MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES, SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, U.N.O.

THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ITEMS ARE CONSTRUCTED TO CONTRACT DOCUMENTS.

THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY.

REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. CONTRACTOR HAS THE RESPONSIBILITY OF THE CORRECTNESS OF ALL APPROVAL DRAWINGS.

GENERAL:

THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS).

CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS OR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES AND SHALL COORDINATE ALL DETAILS.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH OWNER PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE OWNER.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY, U.N.O.

WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND/OR SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.

DEFERRED SUBMITTALS:

SHOP DRAWING SUBMITTALS REQUIRED BY THESE GENERAL STRUCTURAL NOTES WHICH CONTAIN DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER OTHER THAN THE ENGINEER OF RECORD SHALL BE SUBMITTED PRIOR TO CONSTRUCTION TO THE BUILDING OFFICIAL FOR REVIEW. THE DOCUMENTS WILL FIRST BE REVIEWED BY THE ENGINEER OF RECORD AND DETERMINED TO BE IN GENERAL CONFORMANCE WITH THE BUILDING DESIGN. THESE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE BUILDING OFFICIAL HAS APPROVED THEIR DESIGN AND SUBMITTAL DOCUMENTS.

CONCRETE MIX DESIGNS

SPECIAL STRUCTURAL INSPECTION:

SPECIAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING SAFETY DEPARTMENT. "SPECIAL STRUCTURAL INSPECTION" SHALL NOT RELIEVE THE OWNER OR THEIR AGENT FROM REQUESTING THE CITY INSPECTIONS REQUIRED BY IBC SECTION 110.3. SPECIAL INSPECTION IS REQUIRED PER SECTIONS 1704 AND 1705 FOR THE FOLLOWING:

- STEEL PILES: INSPECTOR SHALL VERIFY TYPE AND SIZE OF PILE.
- REINFORCING STEEL (PERIODIC)
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
 - THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
 - PER IBC SECTION 1704.2.4: THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL. SUBMIT A FINAL REPORT AS REQUIRED.
 - UPON COMPLETION OF THE ASSIGNED WORK, THE ENGINEER SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT, TO THE BEST OF THEIR KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT STRUCTURAL ENGINEER PRIOR TO START OF CONSTRUCTION.

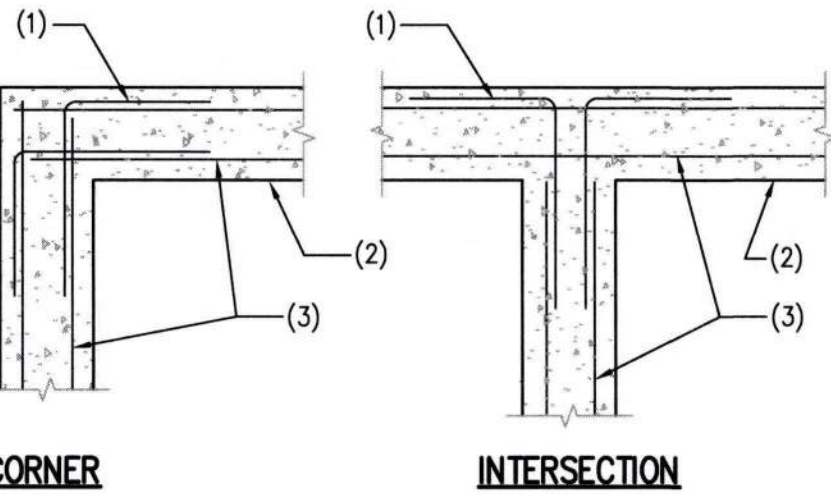
ABBREVIATIONS

| | | | |
|-----------------|--------------------------|-----------|---------------------------|
| A.B.C. | AGGREGATE BASE COURSE | H/C | HOLLOW CORE |
| A.F.F. | ABOVE FINISHED FLOOR | HORIZ. | HORIZONTAL |
| ALT. | ALTERNATE | I.F.W. | INSIDE FACE OF WALL |
| A.B. | ANCHOR BOLT | I.E. | INVERT ELEVATION |
| BM | BEAM | K (KIP) | 1,000 POUNDS |
| B.O.F. | BELOW FINISHED FLOOR | LL | LIVE LOADS |
| B.O.B. | BOTTOM OF BEAM | LBS (#) | POUNDS |
| B.O.D. | BOTTOM OF DECK | L.L.H. | LONG LEG HORIZONTAL |
| B.O.F. | BOTTOM OF FOOTING | L.L.V. | LONG LEG VERTICAL |
| B.O.P. | BOTTOM OF PLATE | MFR(S) | MANUFACTURER(S) |
| B.O.S. | BOTTOM OF STEEL | MAS. C.J. | MASONRY CONTROL JOINT |
| BRG | BEARING | MECH'L | MECHANICAL |
| C.I.P. | CAST-IN-PLACE | N/A | NOT APPLICABLE |
| C.L. | CENTERLINE | N.T.S. | NOT TO SCALE |
| C.L.B. | CENTERLINE OF BEAM | O.C. | ON CENTERS |
| C.L.C. | CENTERLINE OF COLUMN | O.F.W. | OUTSIDE FACE OF WALL |
| C.L.F. | CENTERLINE OF FOOTING | OPP. | OPPOSITE |
| C.L.W. | CENTERLINE OF WALL | P.C. | PRE-CAST CONCRETE |
| CLR | CLEAR | P.L.F. | POUNDS PER LINEAR FOOT |
| CONC. | CONCRETE | PREFAB | PRE-FABRICATED |
| CONC. C.J. | CONCRETE CONTROL JOINT | P.S.F. | POUNDS PER SQUARE FOOT |
| CONC. S.J. | CONCRETE SAWCUT JOINT | P.S.I. | POUNDS PER SQUARE INCH |
| C.M.U. | CONCRETE MASONRY UNIT | REINF. | REINFORCING |
| CONN. | CONNECTION | S.L.H. | SHORT LEG HORIZONTAL |
| CONT. | CONTINUOUS | S.L.V. | SHORT LEG VERTICAL |
| D.L. | DEAD LOAD | SIM. | SIMILAR |
| DIA. | DIAMETER | SQ. | SQUARE |
| DN | DOWN | STD | STANDARD |
| DWG(S) | DRAWING(S) | T.L. | TOTAL LOAD |
| E.O.S. | EDGE OF SLAB | T.O.B. | TOP OF BEAM |
| EL. | ELEVATION | T.O.D. | TOP OF DECK |
| EQ. | EQUAL | T.O.F. | TOP OF FOOTING |
| EQUIP. | EQUIPMENT | T.O.G. | TOP OF GRATING |
| EXP. | EXPANSION BOLT | T.O.L. | TOP OF LEDGER |
| EXP. JT. (E.J.) | EXPANSION JOINT | T.O.M. | TOP OF MASONRY |
| E.W. | EACH WAY | T.O.P. | TOP OF PLATE |
| F.F. | FINISHED FLOOR | T.O.S. | TOP OF STEEL |
| F.O.M. | FACE OF MEMBER | T.O.W. | TOP OF WALL |
| F.O.S. | FACE OF STEEL | TYP. | TYPICAL |
| F.O.W. | FACE OF WALL | U.N.O. | UNLESS NOTED OTHERWISE |
| GA. | GAUGE | VERT. | VERTICAL |
| GALV. | GALVANIZED | WSTP | WATERSTOP |
| G.S.N. | GENERAL STRUCTURAL NOTES | W.W.R. | WELDED WIRE REINFORCEMENT |
| GLB (GLULAM) | GLUE-LAMINATED BEAM | | |

| CLASS "B" LAP SPlice LENGTH (IN INCHES) | | | | | | | | |
|---|---------------|-----|---------------|-----|---------------|-----|---------------|-----|
| | f'c=2,500 PSI | | f'c=3,000 PSI | | f'c=4,000 PSI | | f'c=5,000 PSI | |
| | REG | TOP | REG | TOP | REG | TOP | REG | TOP |
| #3 | 24 | 32 | 22 | 28 | 20 | 26 | 18 | 22 |
| #4 | 32 | 42 | 30 | 38 | 26 | 34 | 24 | 30 |
| #5 | 40 | 52 | 36 | 48 | 32 | 42 | 28 | 36 |
| #6 | 48 | 62 | 44 | 56 | 38 | 50 | 34 | 44 |
| #7 | 70 | 90 | 64 | 82 | 54 | 72 | 50 | 64 |
| #8 | 78 | 102 | 72 | 94 | 62 | 82 | 56 | 72 |
| #9 | 88 | 116 | 82 | 106 | 70 | 92 | 64 | 82 |
| #10 | 100 | 130 | 92 | 118 | 80 | 102 | 72 | 92 |
| #11 | 110 | 144 | 102 | 132 | 88 | 114 | 78 | 102 |

LAP SPlice SCHEDULE FOR REINFORCING IN CONCRETE

SCALE: N.T.S.



CORNER

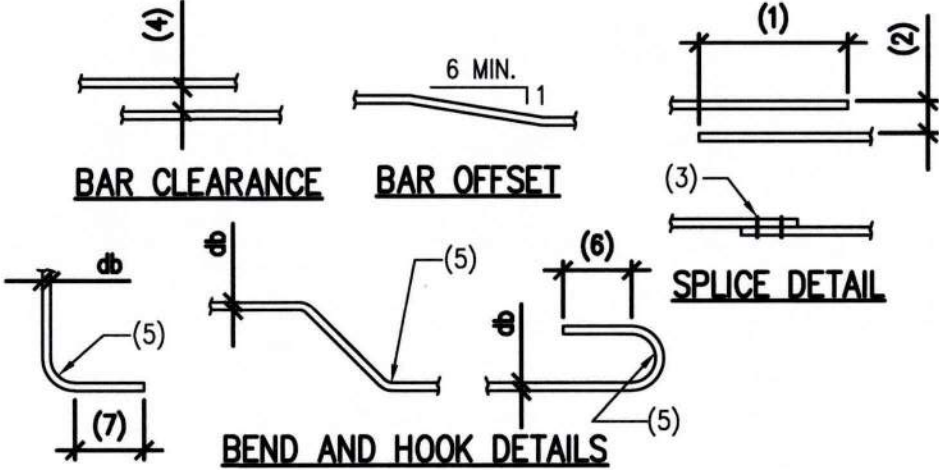
INTERSECTION

TYPICAL CORNER REINFORCING IN CONC. FOOTING, STEM OR WALL

SCALE: N.T.S.

NOTES:

- TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 1/2" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- UNLESS NOTED OTHERWISE, LAP SPLICES IN CONCRETE BEAMS, SLABS, WALLS, AND FOOTINGS SHALL BE CLASS "B" TENSION LAP SPLICES.
- CONTACT STRUCTURAL ENGINEER IF CENTER-TO-CENTER SPACING OF REINFORCEMENT IS LESS THAN (3) BAR DIAMETERS (<3db).
- LAP SPLICES BASED ON: fy = 60 KSI.



BEND AND HOOK DETAILS

NOTES:

- LAP PER TYPICAL SCHEDULE
- MAXIMUM 1/5 LAP BUT NOT MORE THAN 6"
- WIRE TIES
- 1db (1" MINIMUM)
- INSIDE BEND RADIUS: #3 TO #8 BARS = 3db #9 TO #11 BARS = 4db #14, #18 BARS = 5db
- 4db (2 1/2" MINIMUM)
- 12db

TYPICAL CONCRETE REINFORCING BARS

SCALE: N.T.S.

Port of Tacoma
P.O. BOX 1887 TACOMA, WA 98401 (253)83-5841

sitts & hill
CIVIL & STRUCTURAL / ARCHITECTURAL / SURVEY
485 COLUMBIA STREET
TACOMA, WA 98401
PHONE: (253) 798-0000
WWW.SITTSANDHILL.COM

APPROVED: _____

DATE: 06/10/26

CHECKED BY: _____

DATE: 06/10/26

PROJECT: ARKEMA INTERIM ACTION - PHASE 1

CONTAINMENT WALL

STRUCTURAL NOTES AND TYPICAL DETAILS

TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 36

DAT-HRZ: WA83/2011 VERT: MLW 15.73' @ POT MON #178

PARCEL: 0321351053

DRAWING SCALE: AS NOTED

PHASE: FOR BID

CONTRACT/CONS: PA000000403

M. ID: 101585.01

SH # 39 OF 44

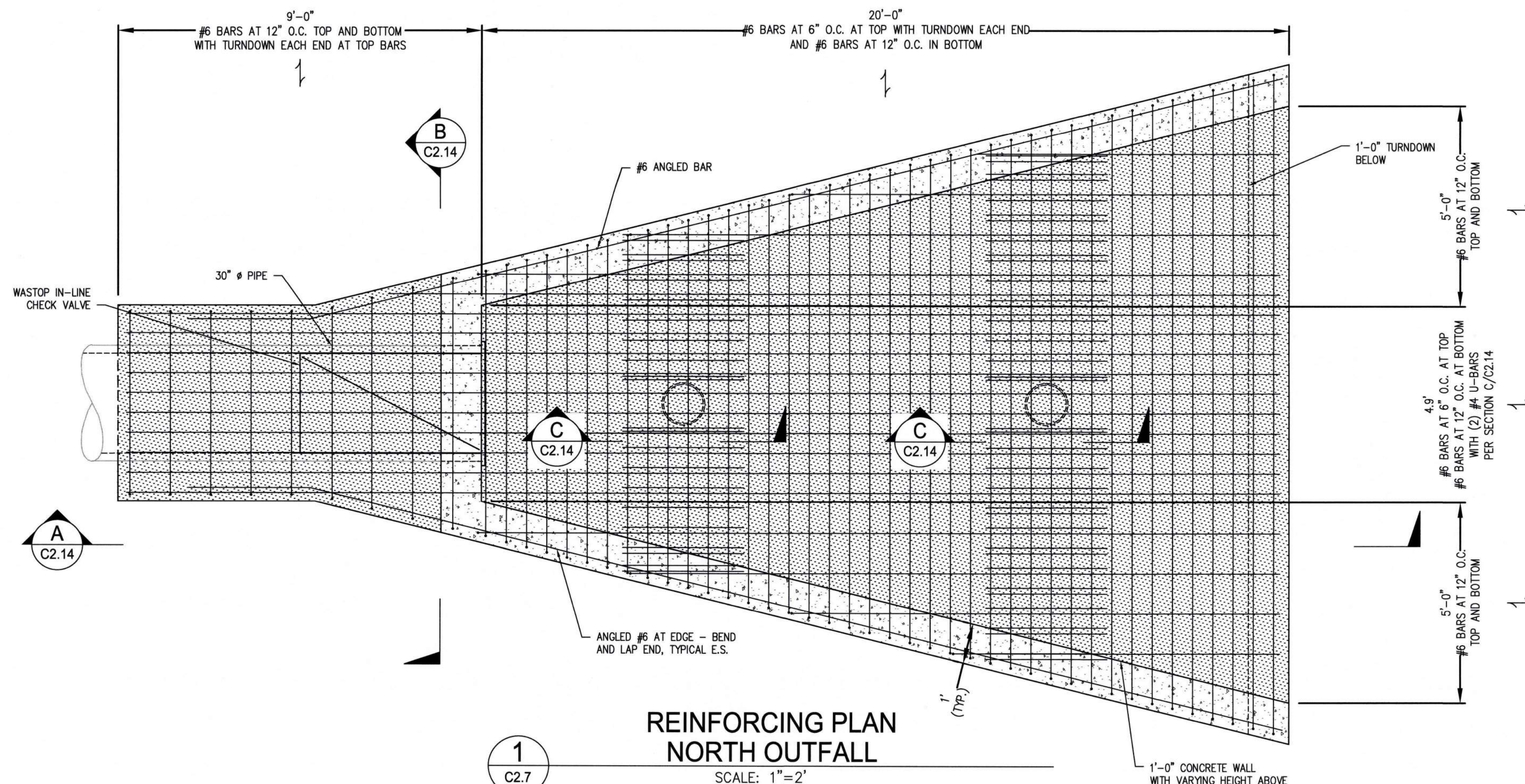
6697

C2.13

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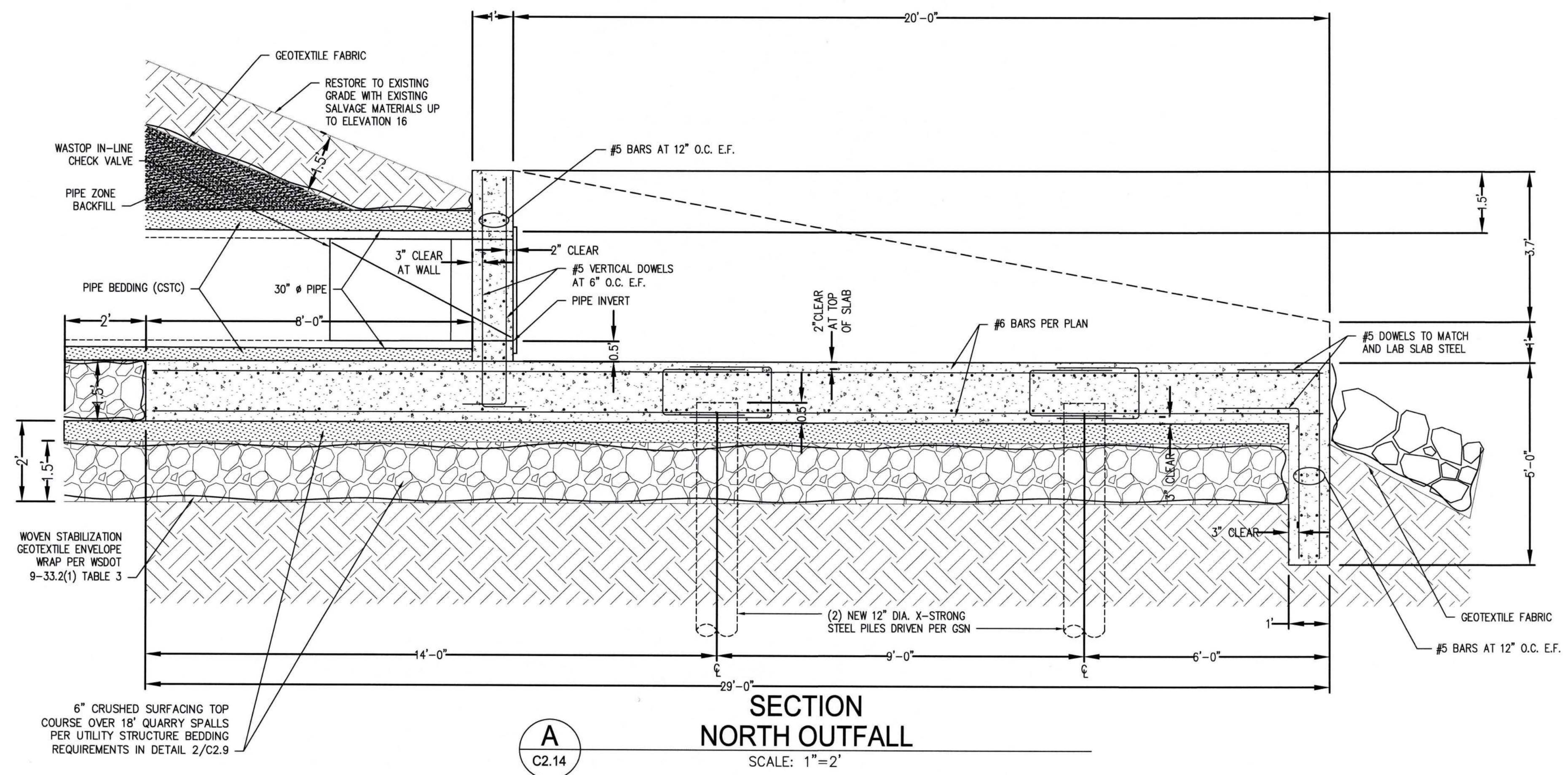
PORT OF TACOMA FILE: N:\20300\20347\Drawings\Drawings - PHASE 1\101585-C2.14

BINDING EDGE



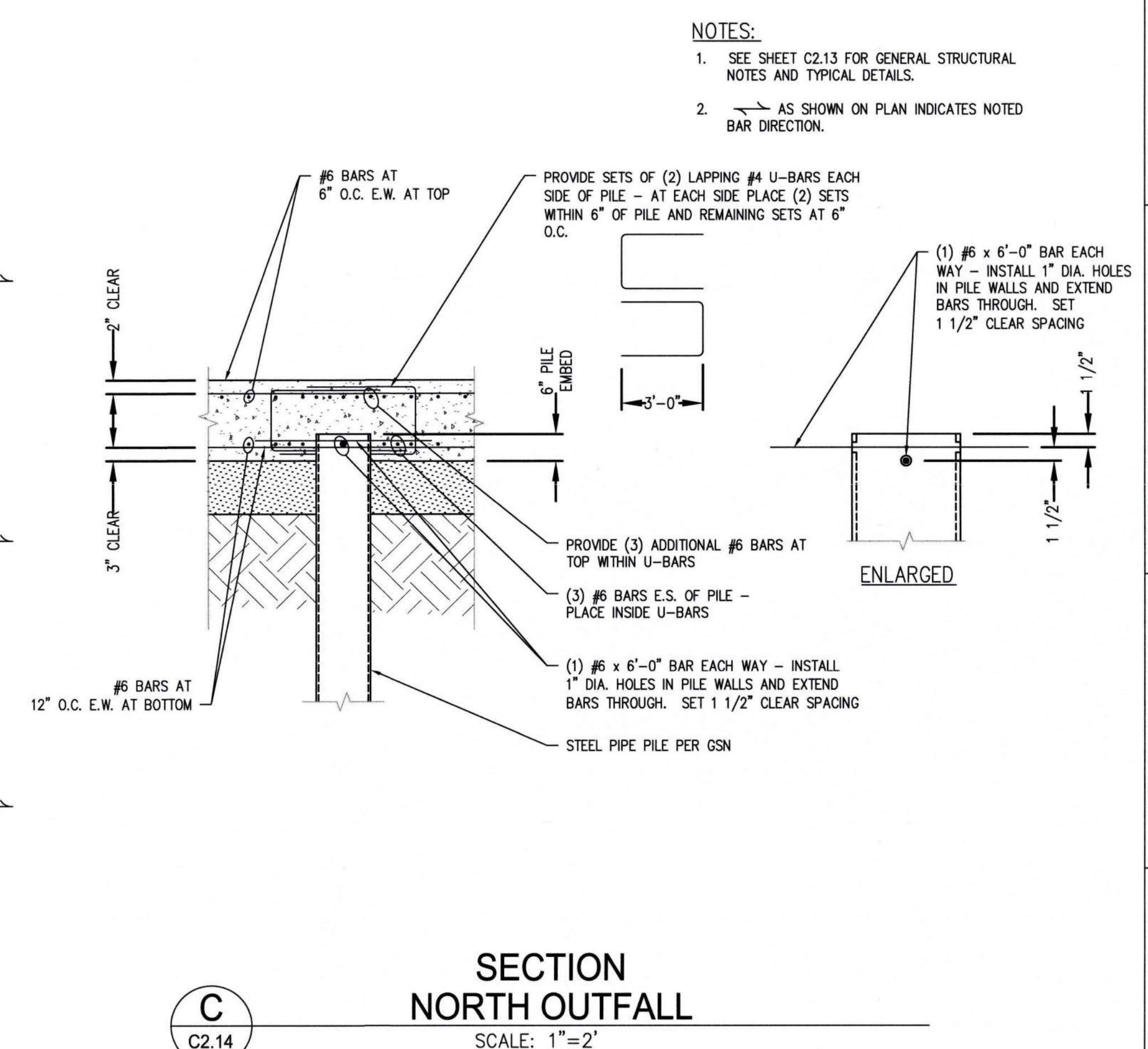
REINFORCING PLAN
NORTH OUTFALL

SCALE: 1"=2'



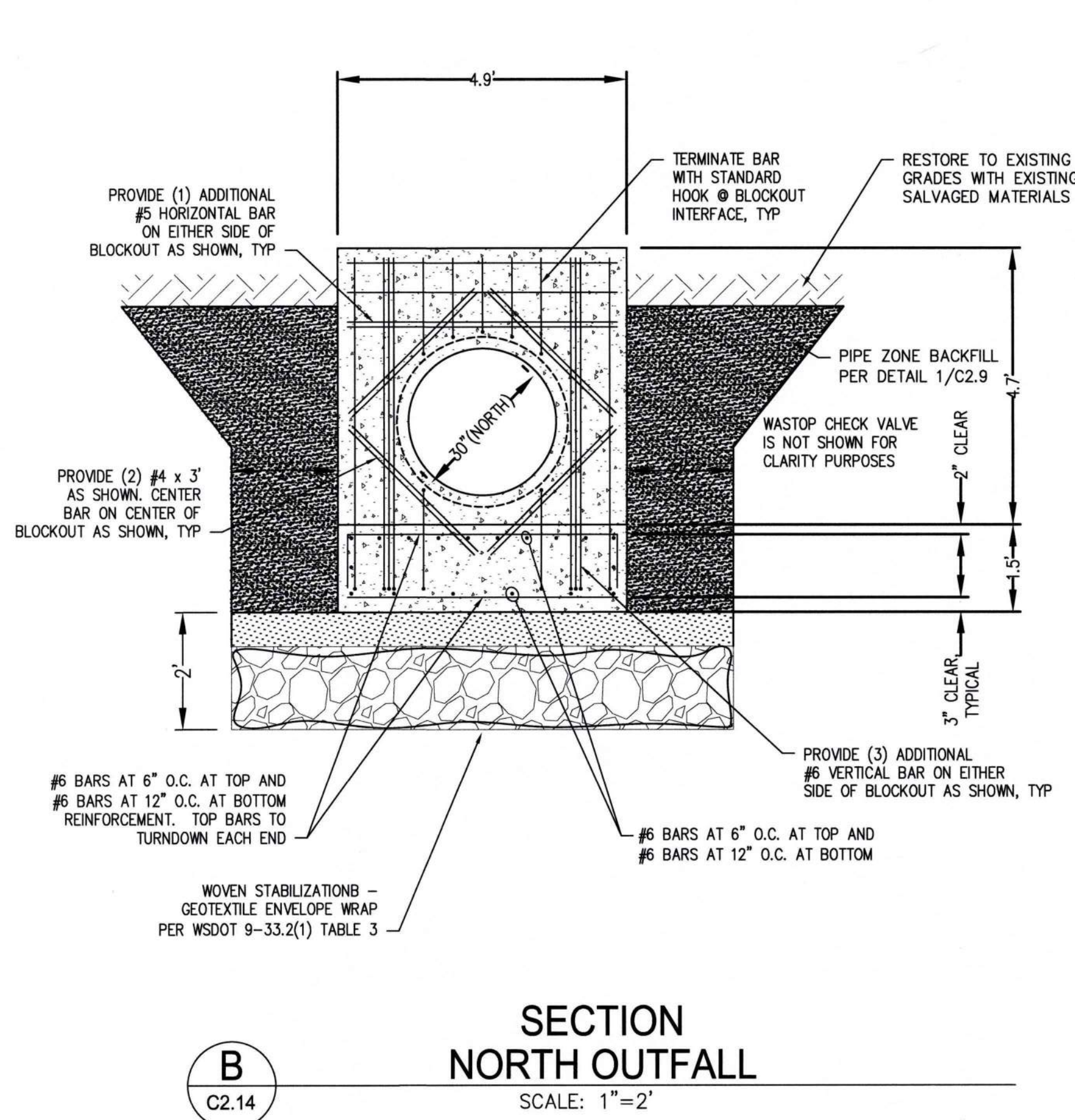
SECTION
NORTH OUTFALL

SCALE: 1"=2'



SECTION
NORTH OUTFALL

SCALE: 1"=2'

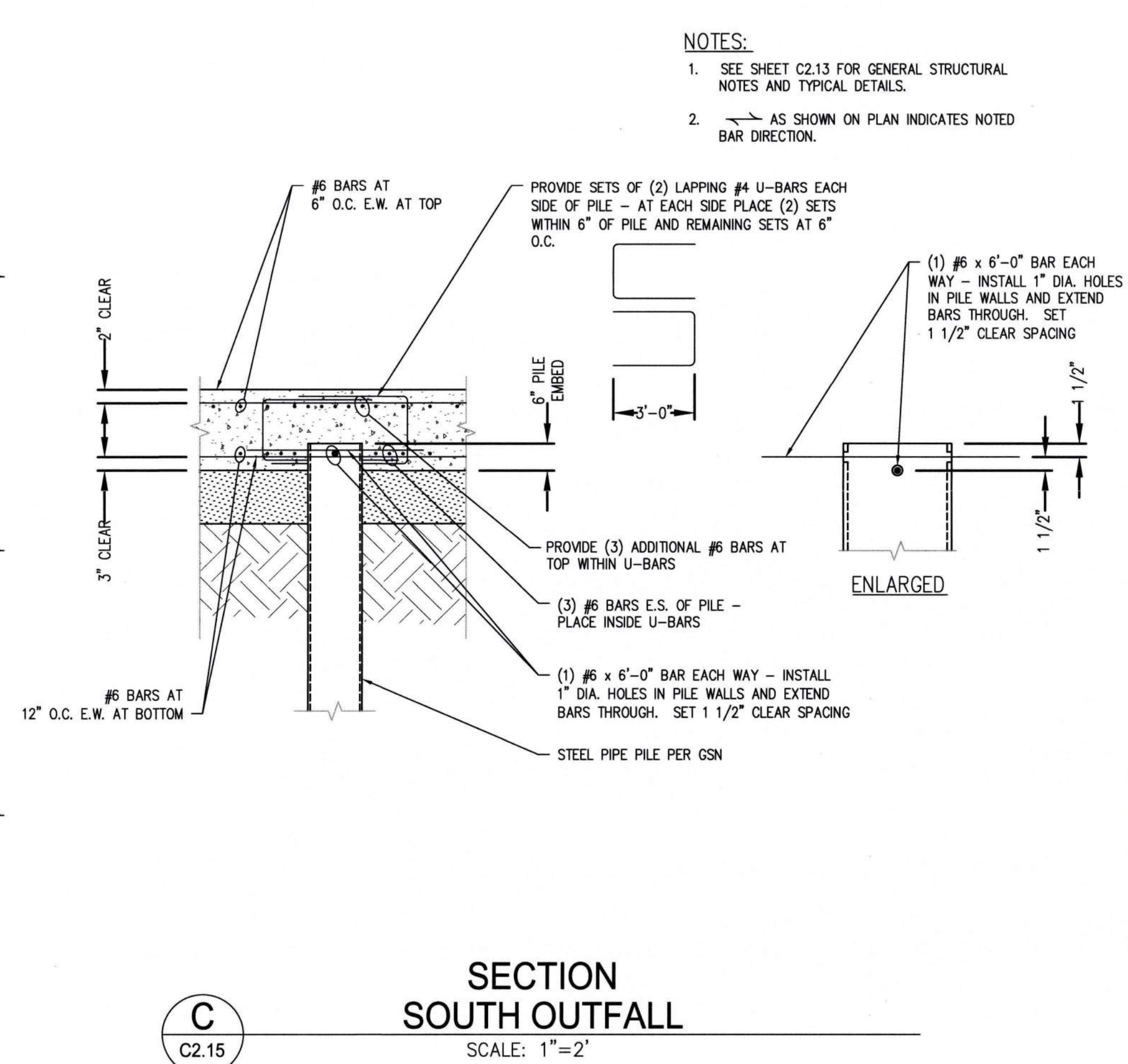
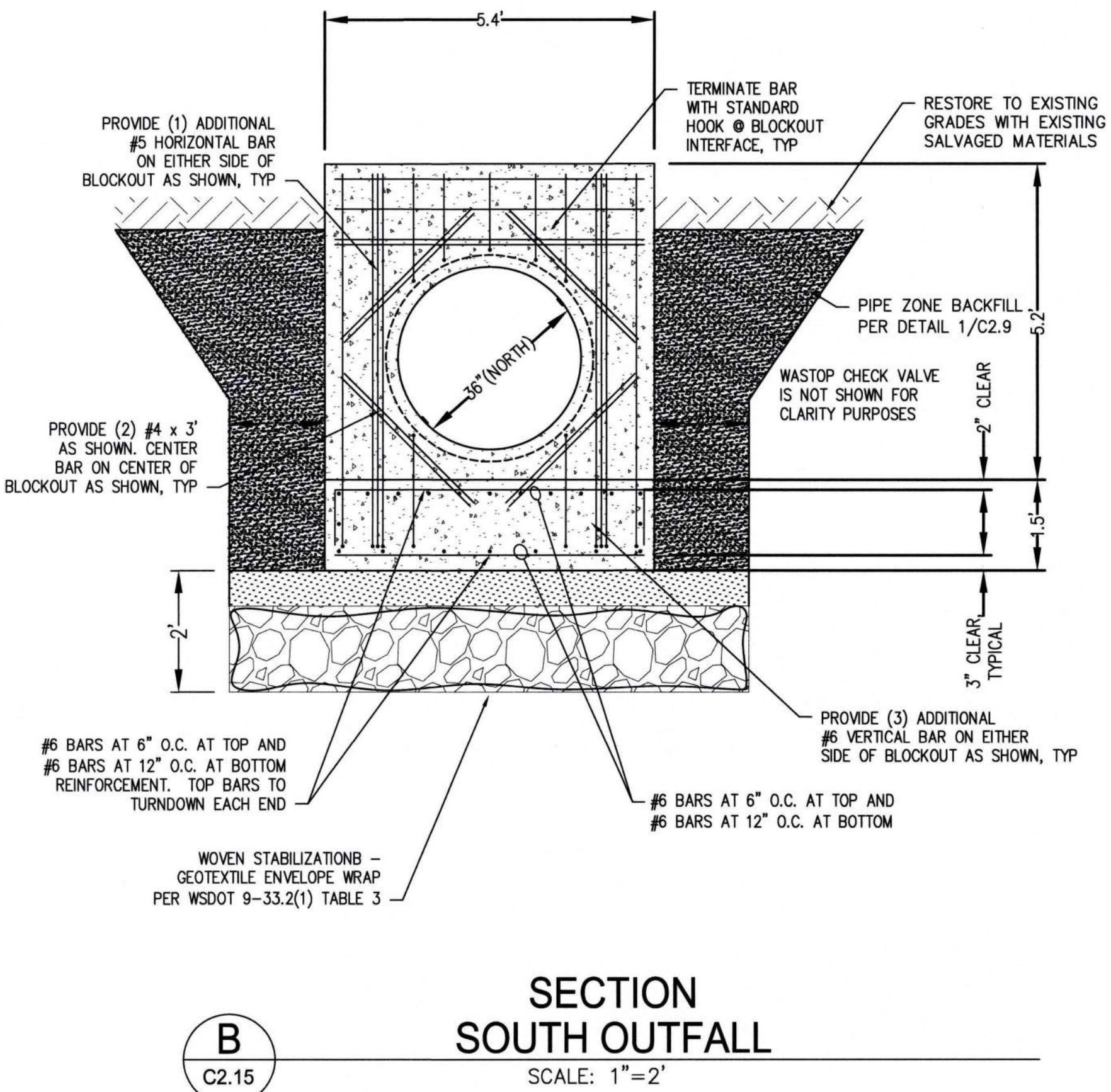
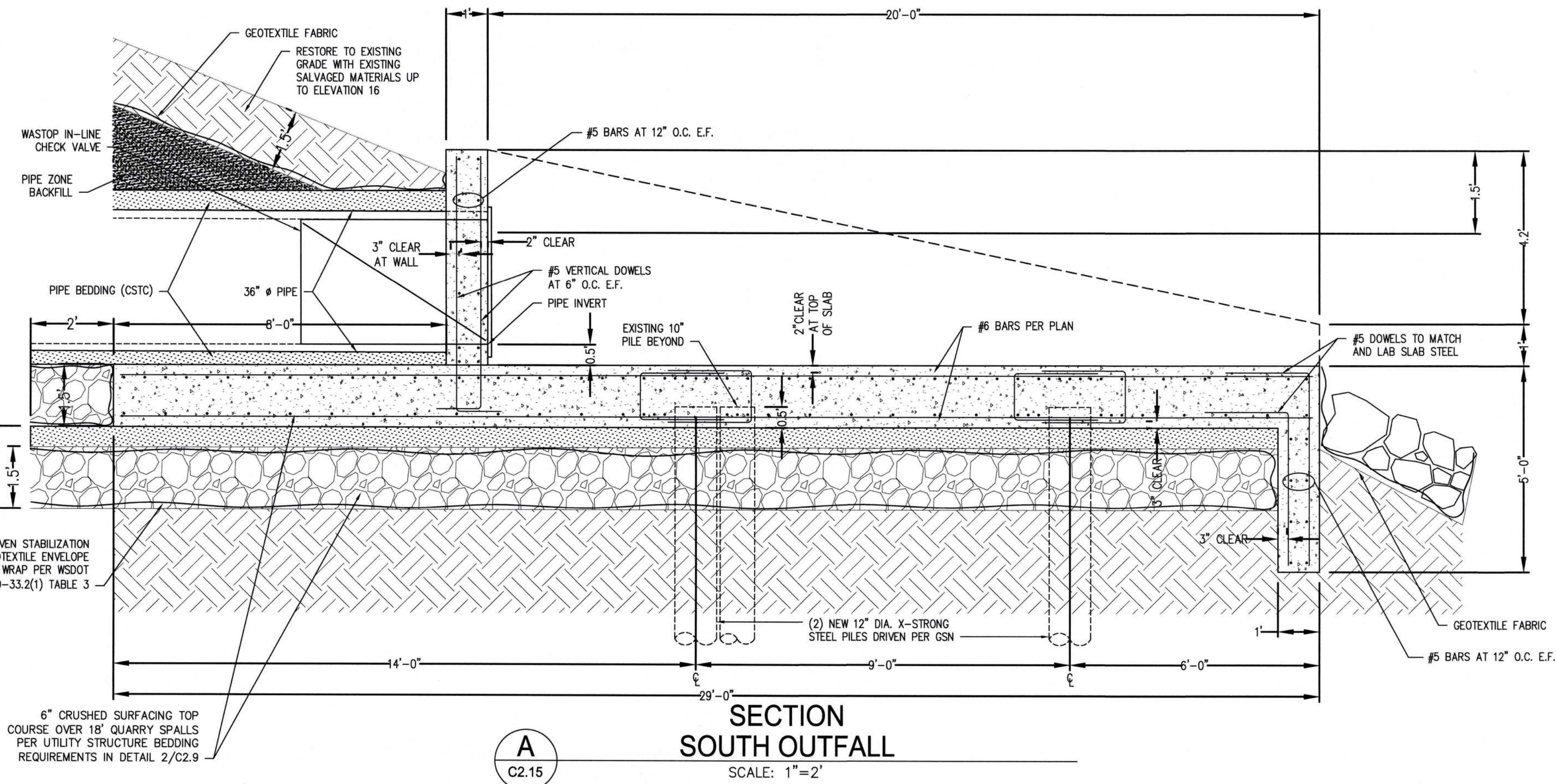
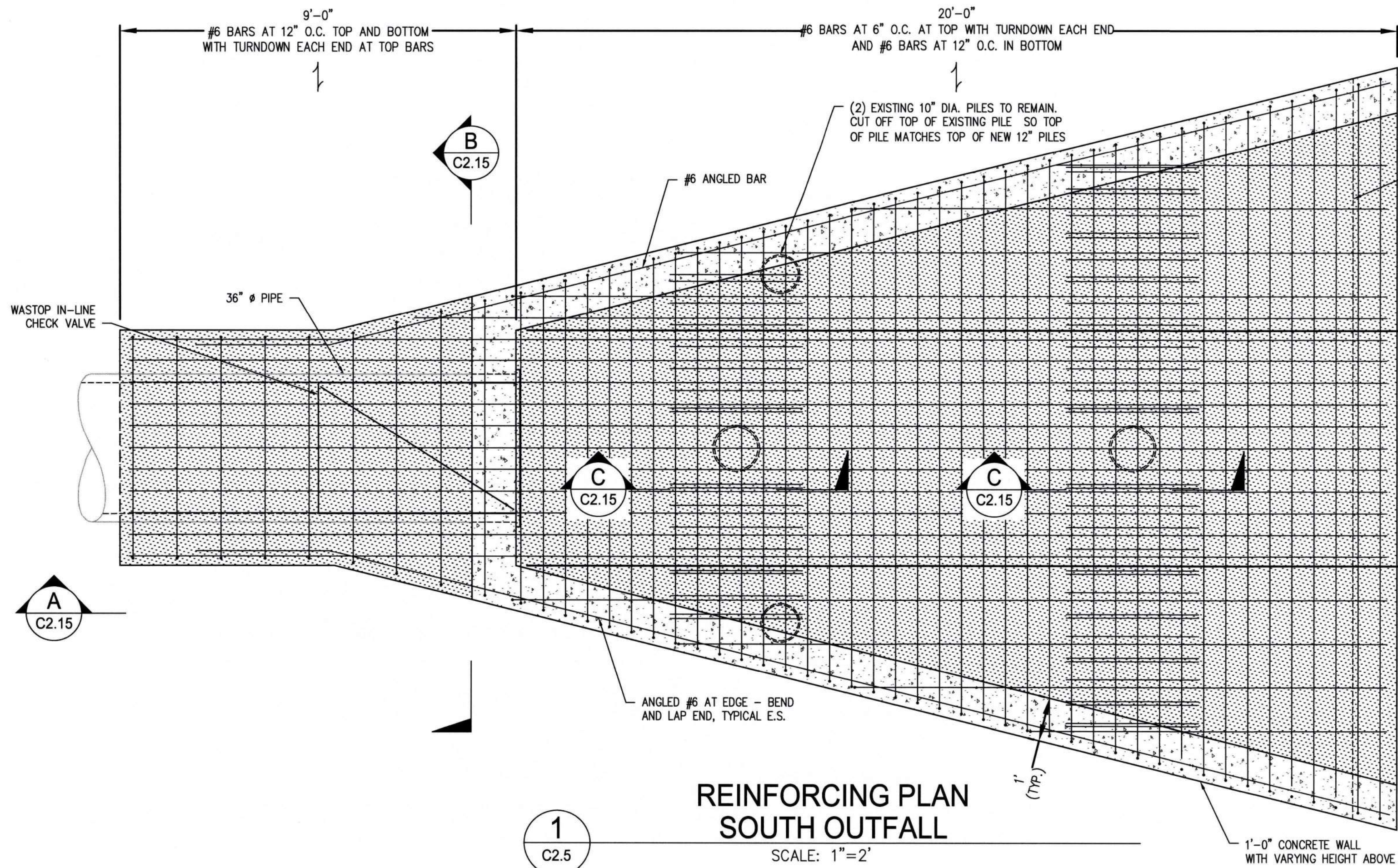


SECTION
NORTH OUTFALL

SCALE: 1"=2'

- NOTES:
- SEE SHEET C2.13 FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
 - AS SHOWN ON PLAN INDICATES NOTED BAR DIRECTION.

| | | | | |
|--|---|---|--|--|
| 6697
C2.14
SH # 40 OF 44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL | | PORT OF TACOMA
P.O. BOX 1007 TACOMA, WA 98401-1007 | |
| | CONT/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID | | DATE: 06/10/26
BY: [Signature]
REVISION: [Signature]
APPR: [Signature]
DATE: 06/10/26 | |
| TOWNSHIP: 21 NORTH
DAT-HRZ: WA83/2011
PARCEL: 0321351053 | | SECTION: 36
POT MON #178
DRAWING SCALE: AS NOTED | | |
| PRINTED BY: KreischerK Jul 30, 2026
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837 | | 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 | | |

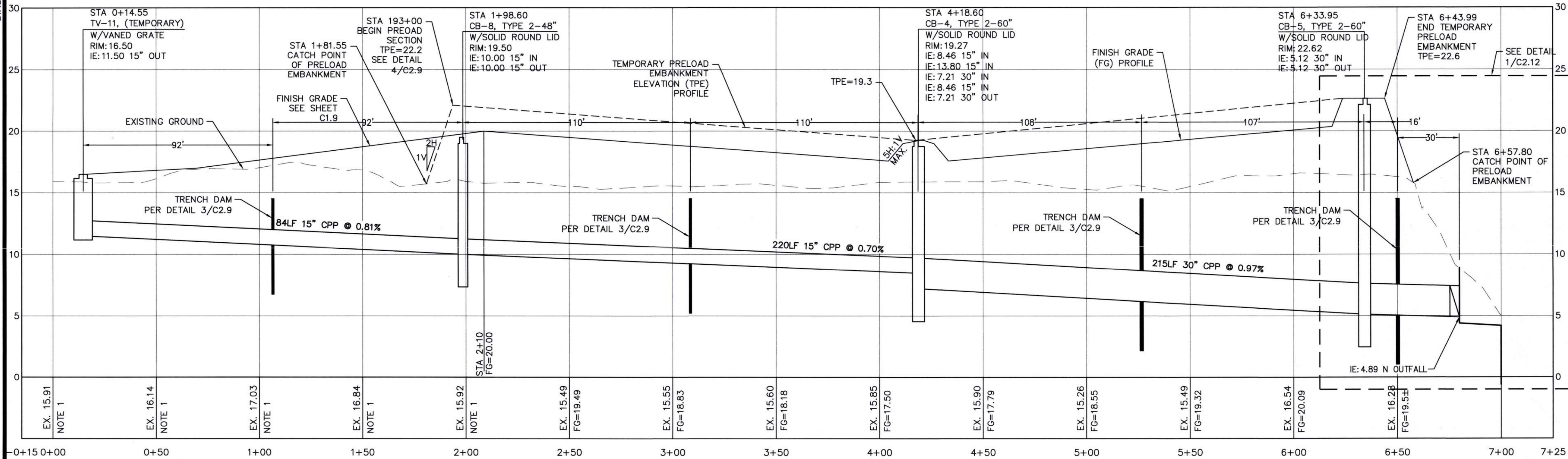


- NOTES:
- SEE SHEET C2.13 FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
 - AS SHOWN ON PLAN INDICATES NOTED BAR DIRECTION.

| | | | | | | | |
|---|---|---|-----------|-------------------------|-----------------------|--|------|
| 6697
C2.15
SH # 41 OF 44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL | | APPROVED: | RCH | 06/10/26 | CHECKED BY | DATE |
| | SOUTH OUTFALL NOTES AND DETAILS | | | RCH | 06/10/26 | PROJ. ENGR | DATE |
| | TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 36 | | | DIRECTOR | 06/10/26 | PRINTED BY: | DATE |
| | M. ID: 101585.01 | | | DATE: 06/10/26 | TACOMA, WA 98401-1837 | | |
| PHASE: FOR BID | | PARCEL: 0321351053 | | DRAWING SCALE: AS NOTED | | 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 | |
| PORT OF TACOMA | | sitts & hill | | MARK: REVISION: | | BY: DATE: | |
| P.O. BOX 1807 TACOMA, WA 98401 (206) 383-5861 | | CIVIL & STRUCTURAL ARCHITECTURAL SURVEY | | APPR: DATE: | | | |

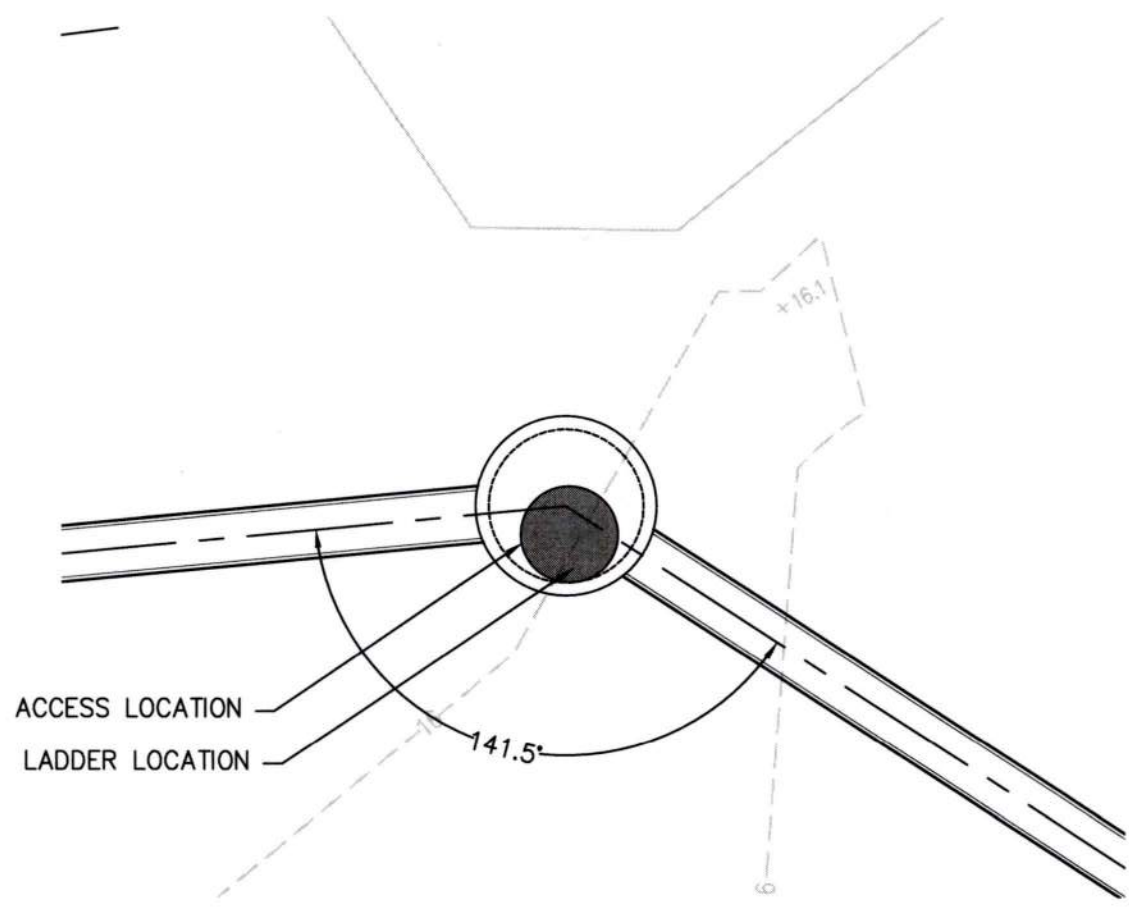
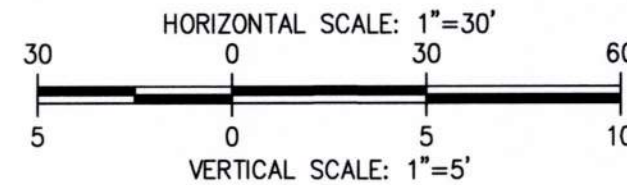
PORT OF TACOMA FILE: N:\2030020347\Drawings\Drawings - PHASE 1\101585-C2.16

BINDING EDGE

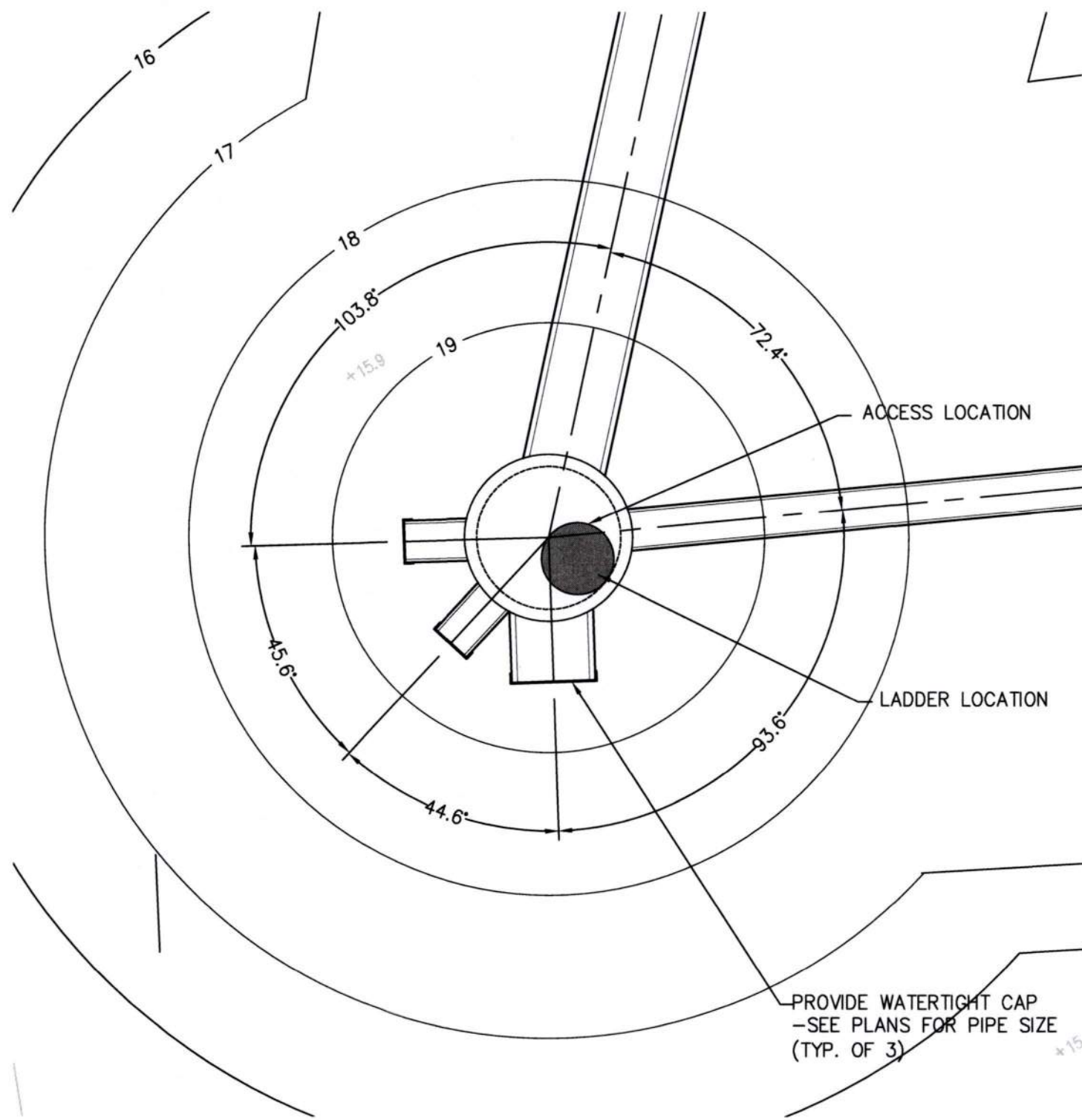
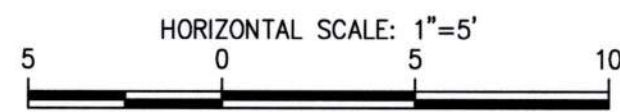


1 SD PROFILE TV-11 TO N OUTFALL
C2.7
SCALE: HORIZ. 1"=30'; VERT. 1"=5'

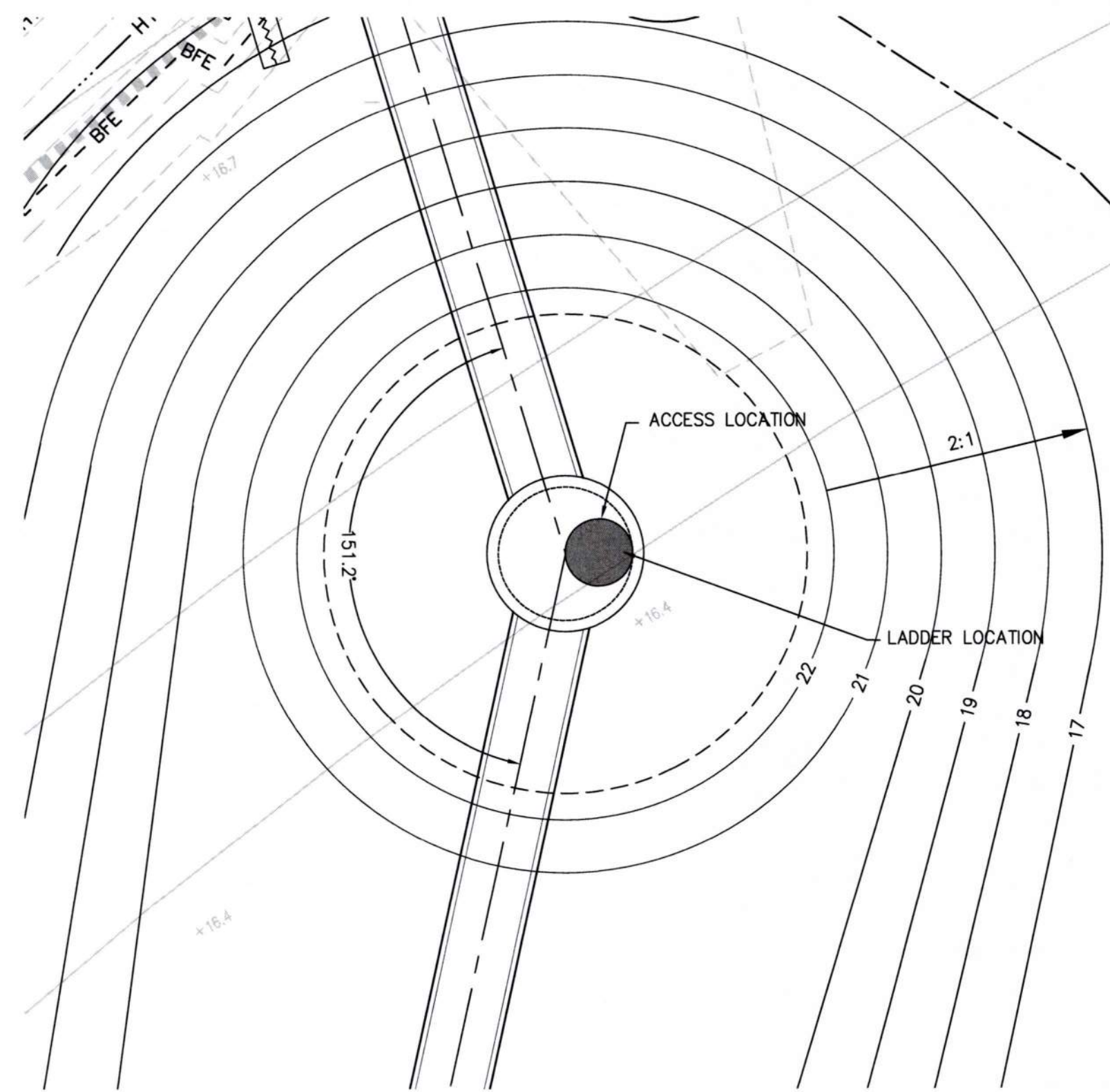
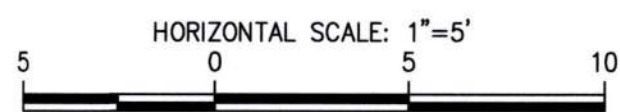
NOTES:
1. SEE SHEET C1.9 FOR FINISH GRADE
2. STORM DRAIN PIPELINE BEDDING AND BACKFILL LIMITS ARE NOT SHOWN FOR CLARITY PURPOSES.



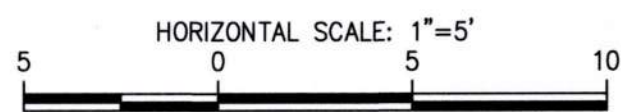
2 CB-8 PLAN VIEW
C2.7
SCALE: 1"=5'



3 CB-4 PLAN VIEW
C2.7
SCALE: 1"=5'



4 CB-5 PLAN VIEW
C2.7
SCALE: 1"=5'

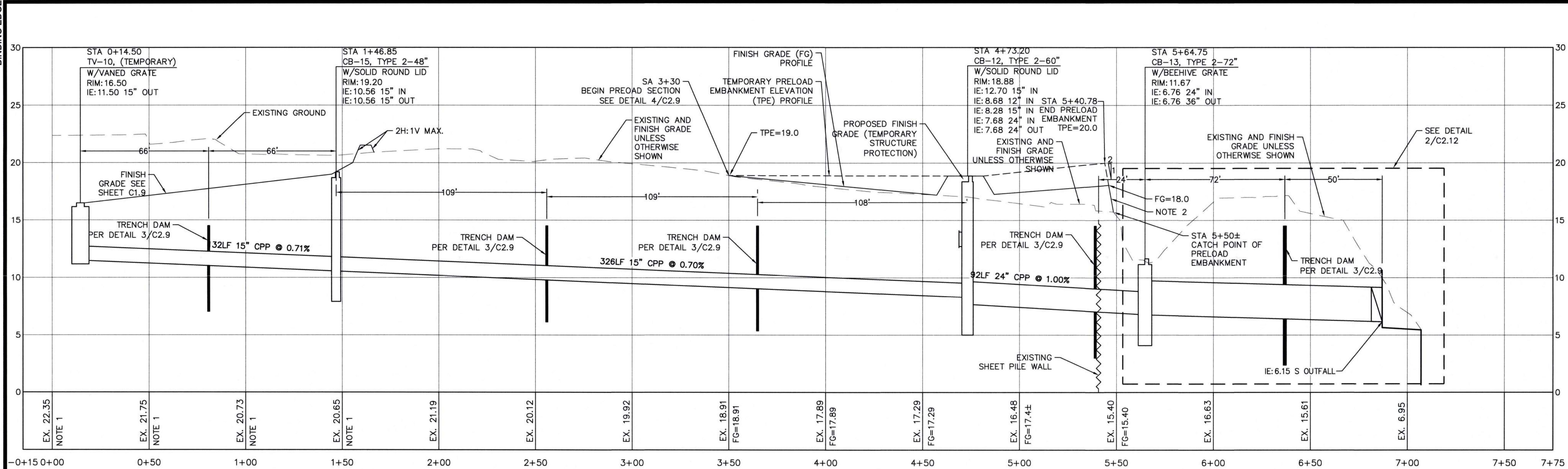


| | | | | |
|--|--|--|--|--|
| 6697
C2.16
SH # 42 OF 44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
STORM DRAIN PROFILES | | APPROVED: | RCH: 06/10/26
CHECKED BY: DATE: 06/10/26
PROJ. ENGR: DATE: 06/10/26
DIRECTOR: Kreischer, Jul 30, 2026
PRINTED BY: Kreischer, Jul 30, 2026
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837 |
| | CONT/CONS: PA000000403 TOWNSHIP: 21 NORTH RANGE: 3 EAST SECTION: 36
M. ID: 101585.01 DAT-HRZ: WA83/2011 VERT: MLLW 15.73' @ POT MON #178
PHASE: FOR BID PARCEL: 0321351053 DRAWING SCALE: AS NOTED | | 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 | |

| | | | |
|-------|-----------|-----|-------|
| MARK: | REVISION: | BY: | DATE: |
| | | | |

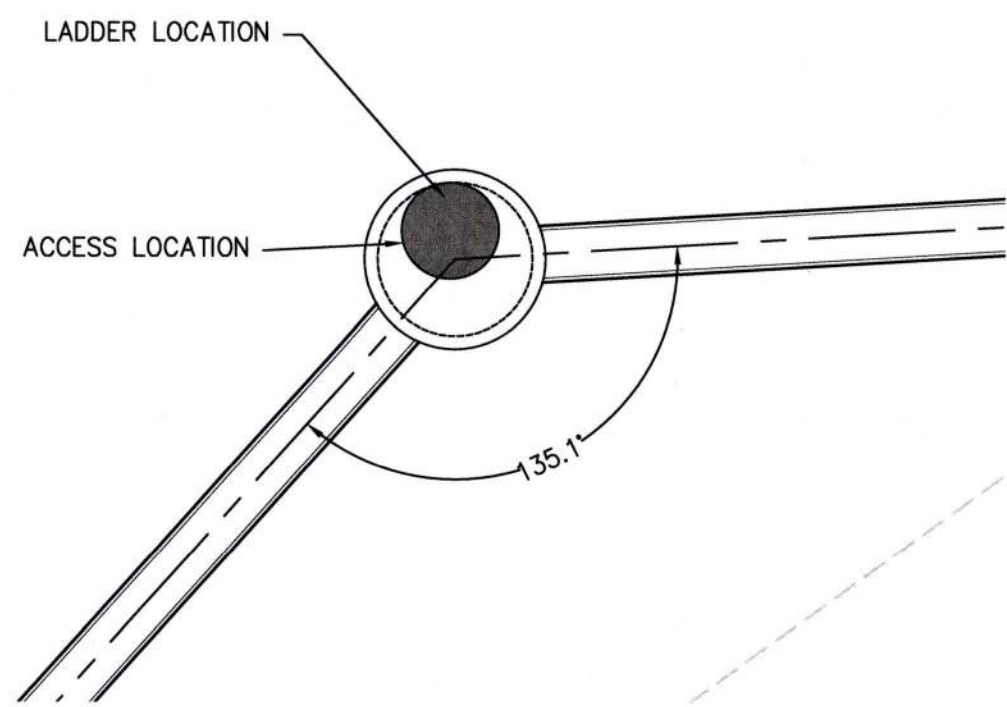
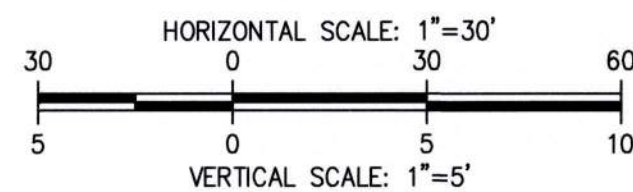
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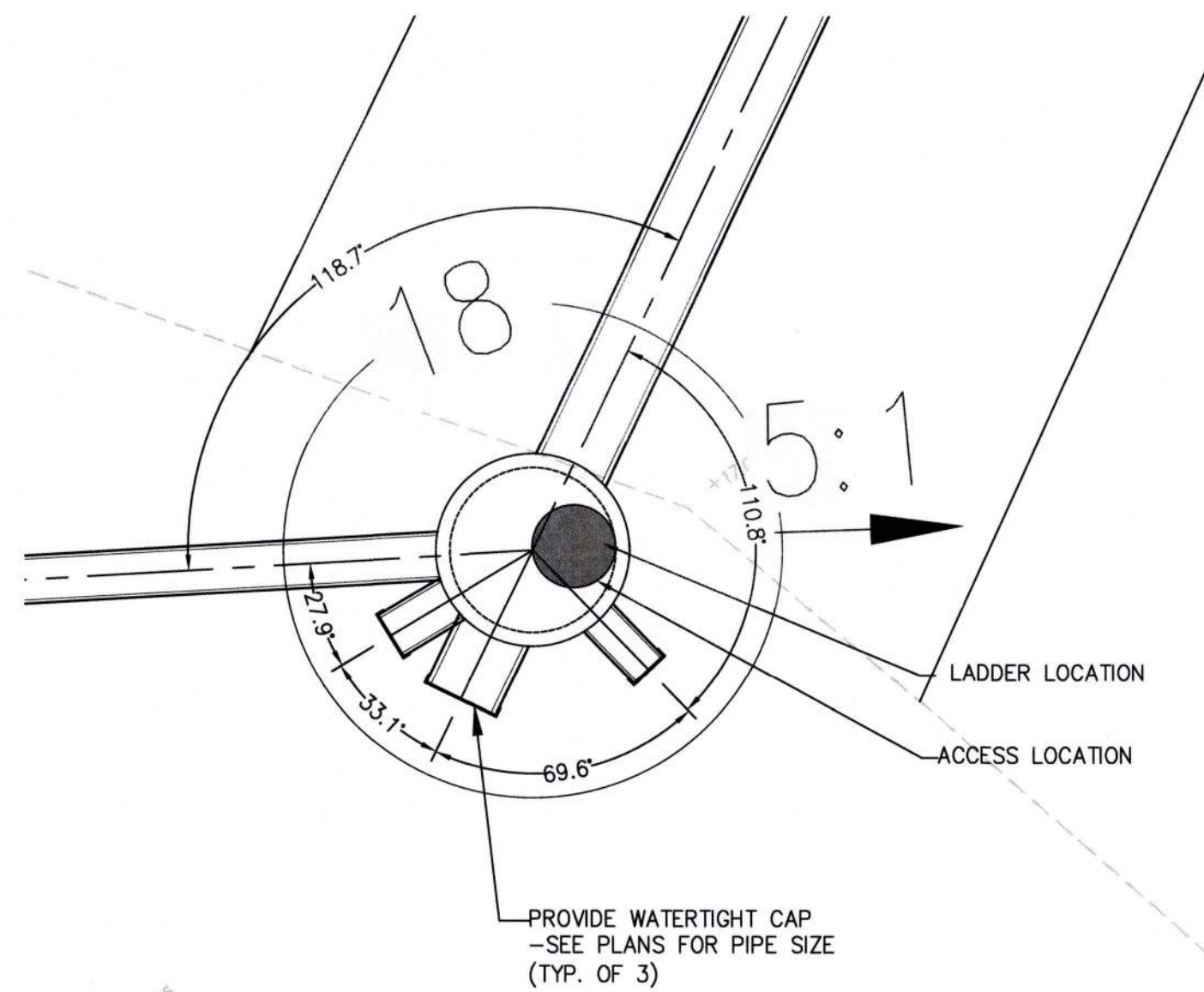
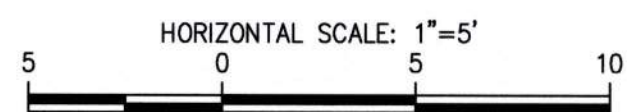


1 SD PROFILE TV-10 TO S OUTFALL
C2.5, C2.6 SCALE: HORIZ. 1"=30'; VERT. 1"=5'

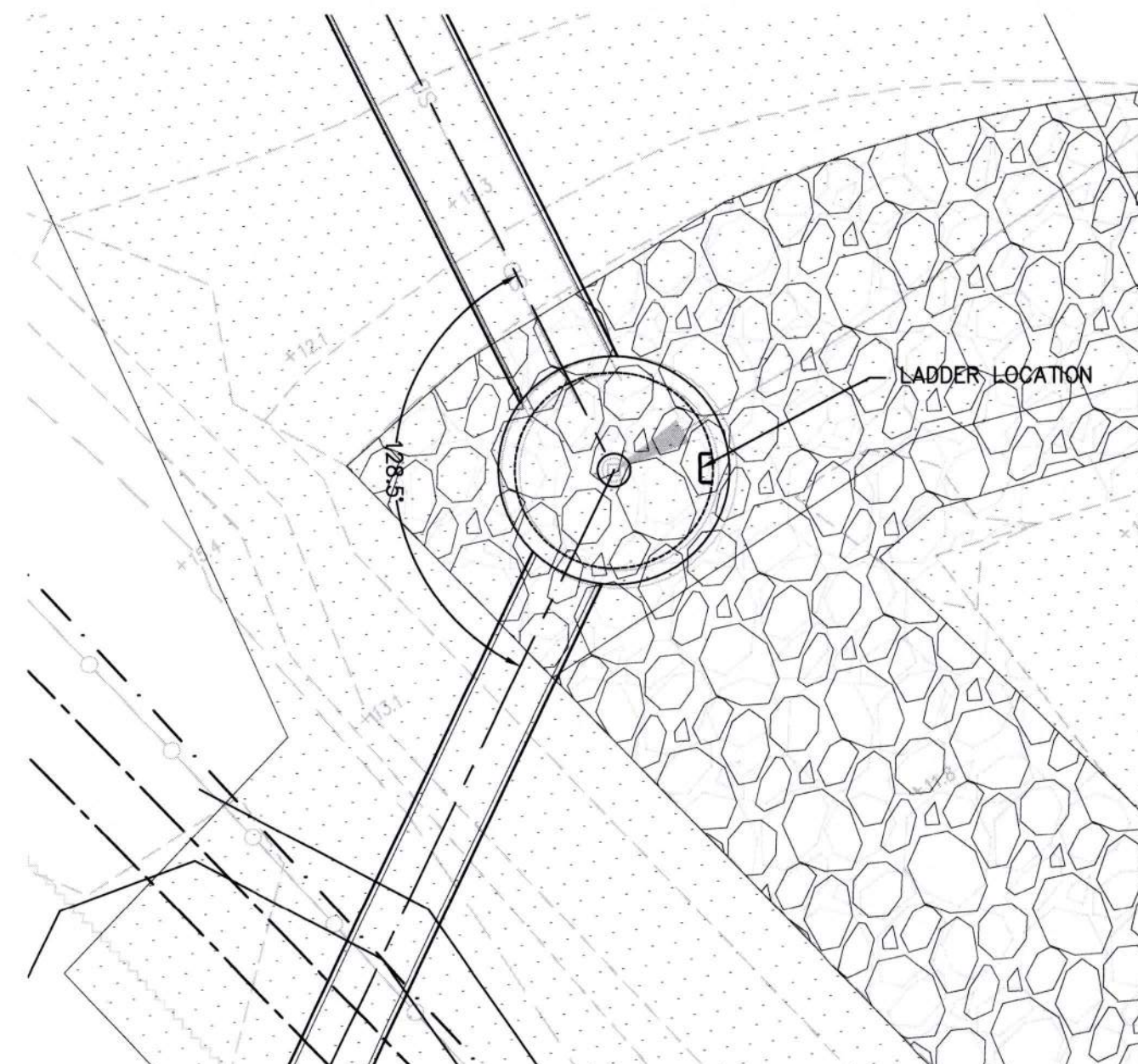
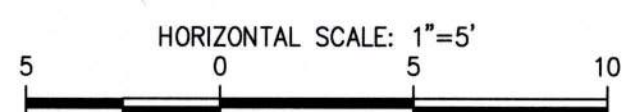
- NOTES:
1. SEE SHEET C1.9 FOR FINISH GRADE
 2. PROVIDE EROSION CONTROL BLANKET AFTER SEED INSTALLATION.
 3. STORM DRAIN PIPELINE BEDDING AND BACKFILL LIMITS ARE NOT SHOWN FOR CLARITY PURPOSES.



2 CB-15 PLAN VIEW
C2.6 SCALE: 1"=5'

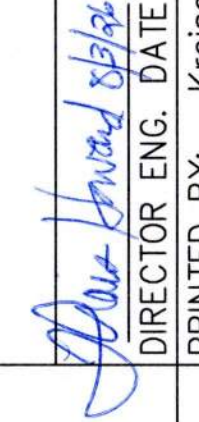


3 CB-12 PLAN VIEW
C2.6 SCALE: 1"=5'

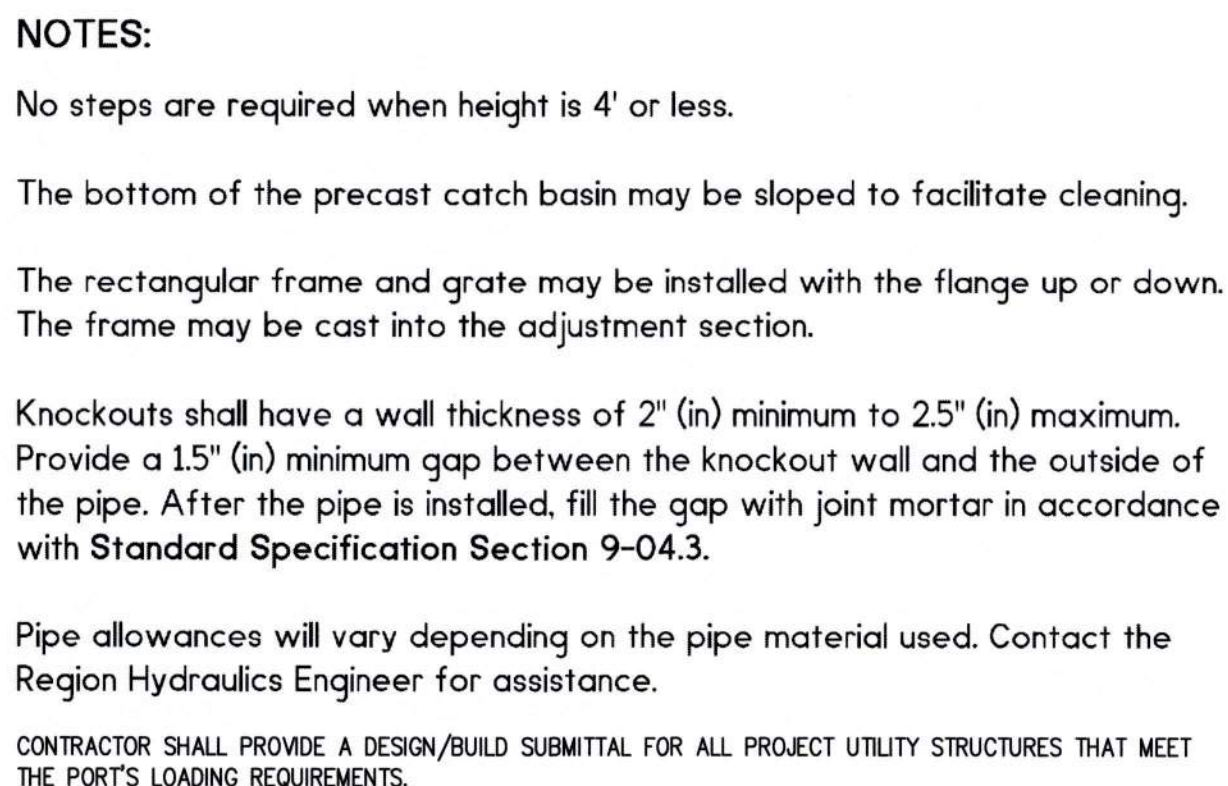


4 CB-13 PLAN VIEW
C2.6 SCALE: 1"=5'



| | | | | | |
|--|---|---------------------------|--|---|------------------|
| 6697
C2.19
SH # 43 OF 44 | ARKEMA INTERIM ACTION - PHASE 1
CONTAINMENT WALL
STORM DRAIN PROFILES | | APPROVED:  | ROD: 06/10/26 | CHECKED BY: DATE |
| | TOWNSHIP: 21 NORTH [RANGE: 3 EAST] [SECTION: 36]
DAT-HRZ: WA83/2011 VERT: MLLW 15.73' @ POT MON #178
PARCEL: 0321351053 [DRAWING SCALE: AS NOTED] | | DIRECTOR ENG. DATE
PRINTED BY: KreischerK Jul 30, 2026
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837 | ROD: 06/10/26
PROJ. ENGR DATE | CHECKED BY: DATE |
| CONTRACT/CONS: PA000000403
M. ID: 101585.01
PHASE: FOR BID | | MARK: REVISION: BY: DATE: | | P.O. BOX 1837 TACOMA, WA 98401 (206) 858-5841 | |

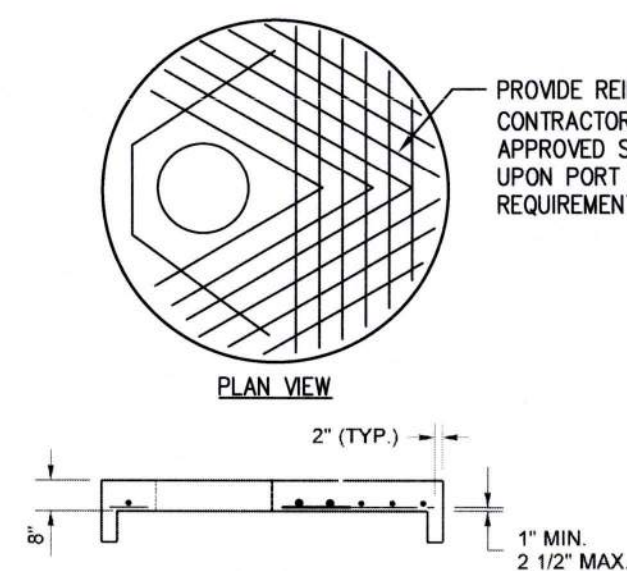
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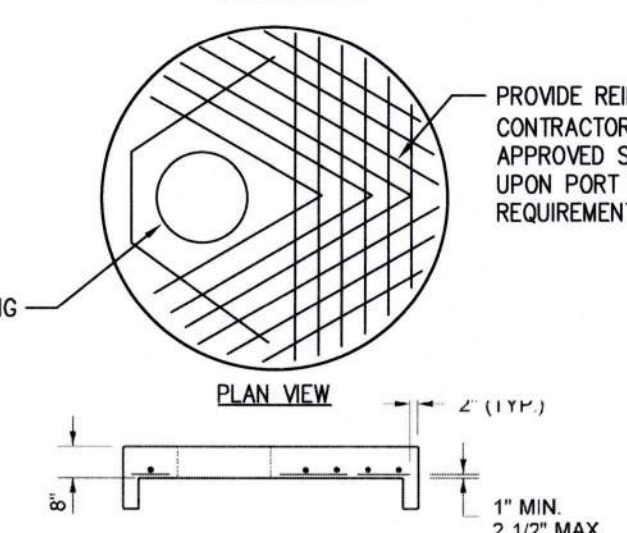
| CATCH BASIN DIMENSIONS | | | | |
|------------------------|--------------------|--------------------|-----------------------|------------------------------------|
| CATCH BASIN DIAMETER | MIN WALL THICKNESS | MIN BASE THICKNESS | MAXIMUM KNOCKOUT SIZE | MINIMUM DISTANCE BETWEEN KNOCKOUTS |
| 48" | 4" | 6" | 36" | 8" |
| 54" | 4.5" | 8" | 42" | 8" |
| 60" | 5" | 8" | 48" | 8" |
| 72" | 6" | 8" | 60" | 12" |
| 84" | 8" | 12" | 72" | 12" |
| 96" | 8" | 12" | 84" | 12" |
| 120" | 10" | 12" | 96" | 12" |
| 144" | 12" | 12" | 108" | 12" |

| PIPE ALLOWANCES | | | | | |
|----------------------|--|-----------|-----------------|---------------------|-----------------------|
| CATCH BASIN DIAMETER | PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER | | | | |
| | CONCRETE | ALL METAL | CRSP® ①
PP ④ | SOLID WALL
PVC ② | PROFILE WALL
PVC ③ |
| 48" | 24" | 30" | 24" | 30" | 30" |
| 54" | 30" | 36" | 30" | 36" | 36" |
| 60" | 36" | 42" | 36" | 42" | 42" |
| 72" | 42" | 54" | 42" | 48" | 48" |
| 84" | 54" | 60" | 54" | 48" | 48" |
| 96" | 60" | 72" | 60" | 48" | 48" |
| 120" | 66" | 84" | 60" | 48" | 48" |
| 144" | 78" | 96" | 60" | 48" | 48" |

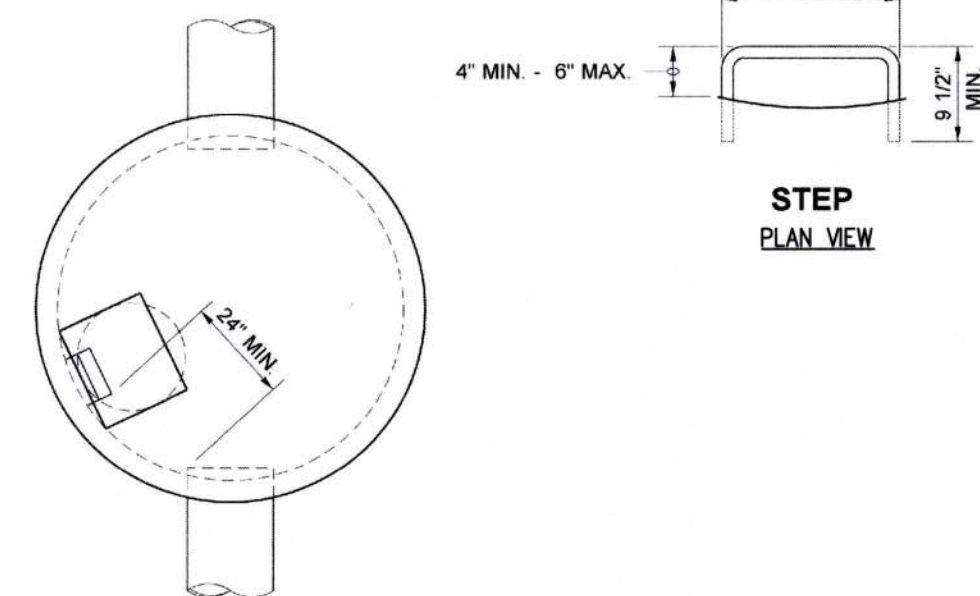
CATCH BASIN TYPE 2
STANDARD PLAN B-10.20-03
SHEET 1 OF 1 SHEET



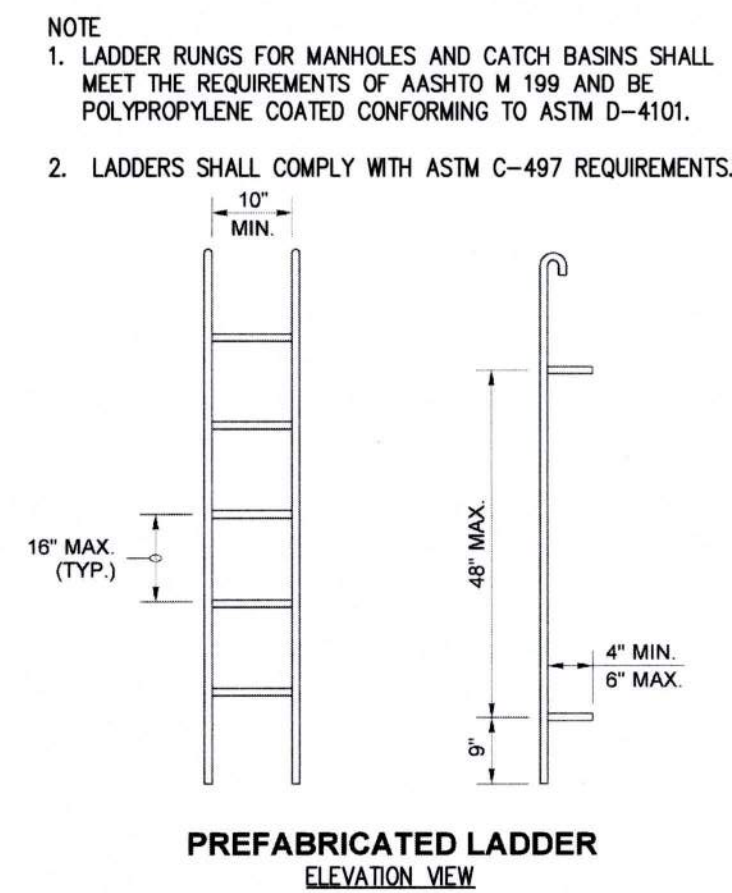
72" (IN) FLAT SLAB TOP
SECTION VIEW



48" (IN), 54", or 60" (IN) FLAT SLAB TOP
SECTION VIEW



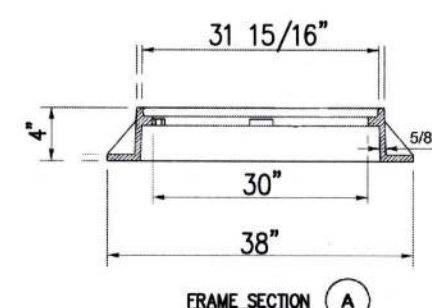
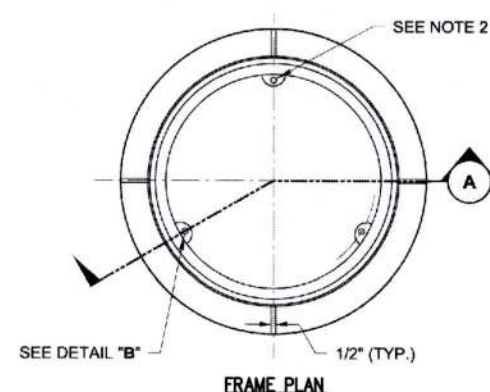
**TYPICAL ORIENTATION
FOR ACCESS AND STEPS**



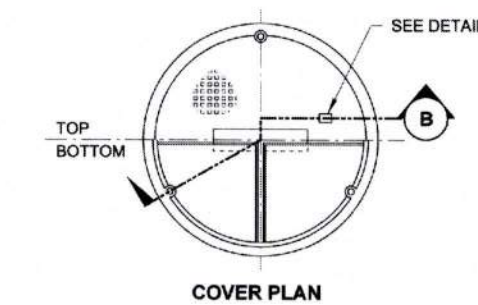
**MISCELLANEOUS DETAILS
FOR
DRAINAGE STRUCTURES
STANDARD PLAN B-30.90-02**

SHEET 1 OF 1 SHEET

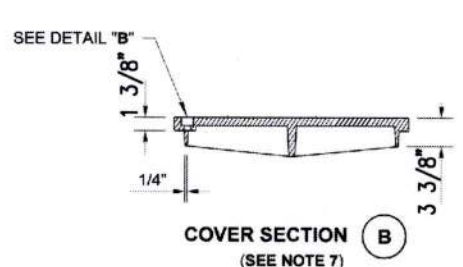
CATCH BASIN DETAIL



FRAME SECTION



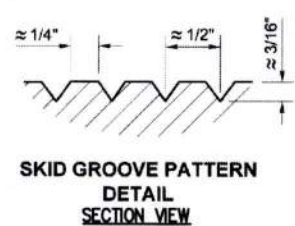
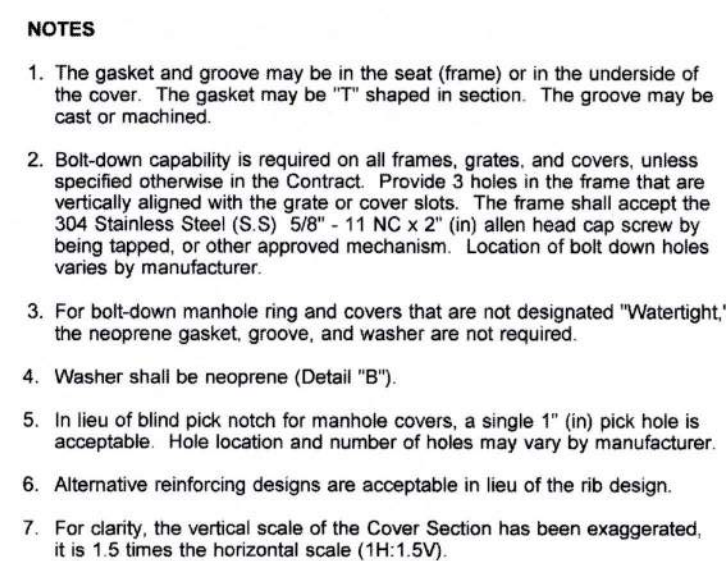
COVER PLAN



(SEE NOTE 7)

**BOLT-DOWN / WATERTIGHT
TYPE 2**

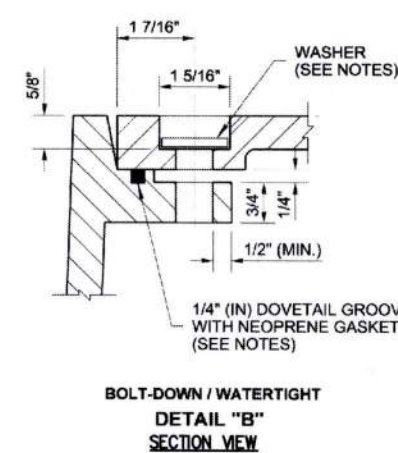
CATCH BASIN FRAME



**SKID GROOVE PATTERN
DETAIL
SECTION VIEW**



**CIRCULAR FRAME (RING)
AND COVER**



**BOLT-DOWN / WATERTIGHT
DETAIL "B"
SECTION VIEW**