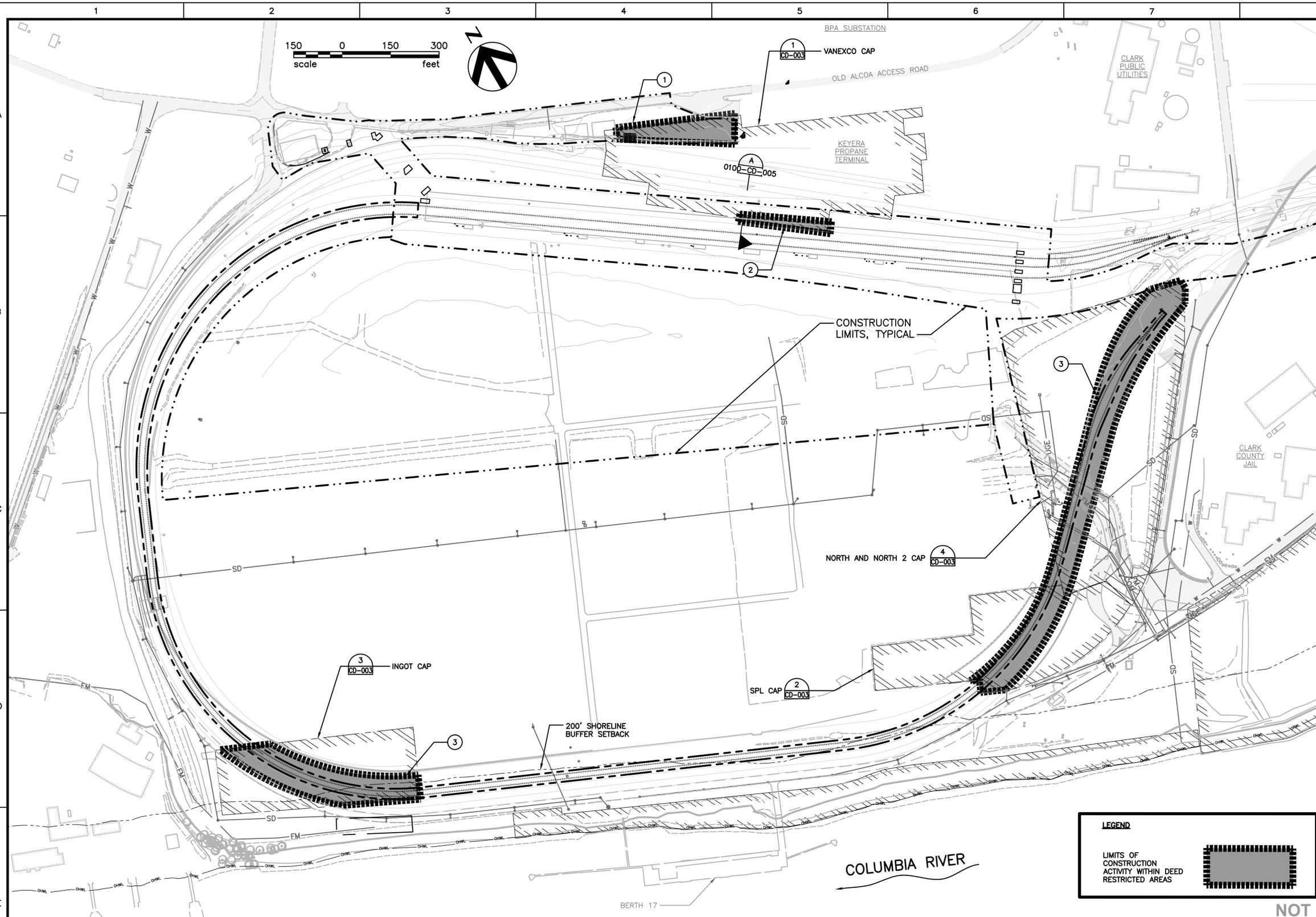


Construction Stormwater Pollution Prevention Plan

Vancouver Energy
EFSEC Application for Site Certification No. 2013-01
Docket No. EF131590



Appendix M
Cap Restoration Details



GENERAL NOTES:

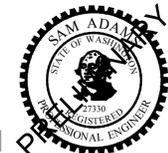
1. CONTRACTOR'S ACTIVITY SHALL STRICTLY COMPLY WITH ALL PERMITTED CONDITIONS OF APPROVAL.
2. EXCAVATIONS AND GROUND DISTURBING ACTIVITIES WITHIN DEED RESTRICTED AREAS REQUIRES NOTIFICATION TO THE WASHINGTON STATE ENERGY FACILITY SITE EVALUATION COUNCIL (EFSEC) AND COMPLIANCE WITH THE APPROVED CONTAMINATED MEDIA MANAGEMENT PLAN, APPLICABLE PORT PROTOCOLS AND ADDITIONAL REQUIREMENTS PROVIDED BY EFSEC.
3. SPECIFIC LIMITS FOR THE EAST LANDFILL LIMITS ARE PROVIDED BASED UPON PRIOR SURVEY'S CONDUCTED BY HDJ DESIGN GROUP. WORK LIMIT SHALL ENCRUCH UPON THE BOUNDARY OF THE EAST LANDFILL.
4. WHERE KNOWN, ADDITIONAL AREAS OF CONCERN AND POSSIBLE CONTAMINATED MEDIA LOCATIONS HAVE BEEN GENERALLY DEPICTED. CONTRACTOR SHALL COORDINATE FULLY WITH PORT OF VANCOUVER ENVIRONMENTAL STAFF AND INSPECTORS FOR MONITORING AND TESTING OF EXCAVATED MEDIA FOR POSSIBLE CONTAMINATES. PORTIONS OF AREA 200 AND AREA 500 ARE SPECIFICALLY IDENTIFIED WHERE CONTAMINATION IS LIKELY TO BE ENCOUNTERED DURING EXCAVATIONS.
5. IF MEDIA INCLUDING SOILS, OR GROUNDWATER ARE ENCOUNTERED THAT INDICATE POSSIBLE CONTAMINATION, CONTRACTOR SHALL NOTIFY VANCOUVER ENERGY SITE MANAGER, PORT OF VANCOUVER AND EFSEC IMMEDIATELY PRIOR TO PROCEEDING. SIGNS OF CONTAMINATION INCLUDE UNUSUALLY DARK SOIL AND ODOORS.
6. IN AREAS OF CONCERN EXCAVATED MATERIAL SHALL BE PLACED IN SEALED WATER-TIGHT CONTAINERS OR LINED STAGING AREAS IMMEDIATELY ADJACENT TO THE WORK AREA FOR TESTING AND CLASSIFICATION OF MATERIAL PRIOR TO HAUL OFF.

CONTAMINATED MEDIA NOTES:

1. CONSTRUCTION ACTIVITIES WITHIN THIS PORTION OF THE VANEXCO CAP WILL BE LIMITED TO GROUND DISTURBANCES ABOVE THE EXISTING CONCRETE CAP. SOME MINOR EXPOSURE OF THE CONCRETE SURFACE MAY OCCUR IN LOCALIZED AREAS. NO WORK WITHIN THIS AREA WILL REMOVE OR PENETRATE PORTIONS OF THE CAP.
2. CONSTRUCTION ACTIVITIES WITHIN THIS PORTION OF THE VANEXCO CAP WILL RESULT IN MODIFICATION OF THE UNDERDRAIN SYSTEM AND HOPE LINER. DISCHARGES FROM THE UNDERDRAIN SYSTEM WILL BE RE-ROUTED TO AVOID CONFLICTS WITH THE PROPOSED RAIL UNLOADING BUILDING FOUNDATIONS AND CONTAINMENT TRENCHES. SEE DWG 0100-CD-006 FOR LINER PENETRATION DETAIL, AND SHEET 0100-CD-007 FOR NEW STORMWATER DETAILS. LINER WILL BE EXTENDED TO AND TIED INTO THE GRADE BEAMS OF THE RAIL UNLOADING BUILDING FOUNDATION SEE DWG 0100-CD-006 FOR DETAILS. FOUNDATIONS OF THE RAIL UNLOADING BUILDING WITHIN THE EXISTING CAP AREA WILL BE LIMITED TO SHALLOW SPREAD FOOTINGS TO LIMIT EXCAVATION ACTIVITIES. CONSTRUCTION OF RAIL UNLOADING BUILDING CONSISTS OF FULLY IMPERVIOUS ROOF WITH CAST-IN-PLACE CONCRETE SURFACING WITH FLOOR DRAINS. ALL RAINWATER WILL BE COLLECTED AND DIVERTED, THEREBY EXCLUDING SURFACE WATER FROM ENTERING CAP AREA.
3. CONSTRUCTION WITHIN THE INGOT CAP, SPL CAP, AND NORTH AND NORTH 2 CAP AREAS ARE LIMITED TO RAIL IMPROVEMENTS ONLY. RAIL LINES TO BE UNDER TSJV CONTROL ARE PERMITTED UNDER EFSEC APPLICATION. CONSTRUCTION DRAWINGS, DETAILS, AND CONSTRUCTION ADMINISTRATION FOR ADDITIONAL 2 RAIL LOOPS WILL BE COMPLETED BY THE PORT OF VANCOUVER AS DISCUSSED IN THE LEASE AGREEMENT.

LEGEND

LIMITS OF CONSTRUCTION ACTIVITY WITHIN DEED RESTRICTED AREAS



PERMIT SET
NOT FOR CONSTRUCTION

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700 NE Multnomah Street, Suite 900
 Portland, Oregon 97232-4189
 (503) 872-4100 FAX: (503) 872-4101

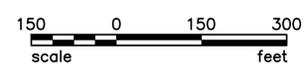
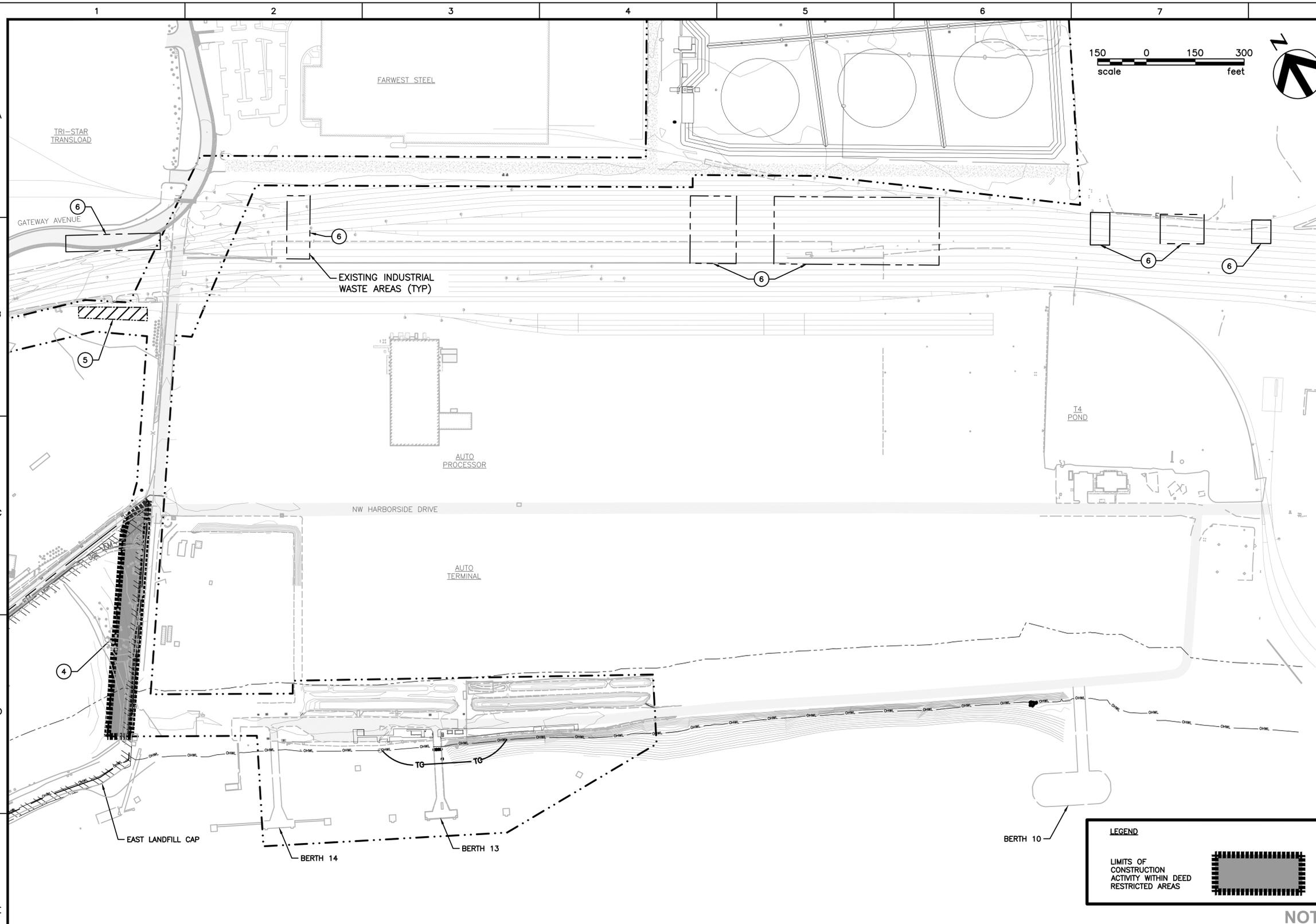
Tesoro Savage Petroleum Terminal LLC

PROJECT:	VANCOUVER ENERGY PORT OF VANCOUVER, WASHINGTON
DESCRIPTION:	CONTAMINATED MEDIA LOCATIONS - 1

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0100-CD-002				1	1

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GENERAL NOTES:

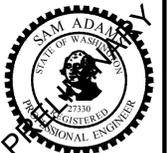
1. CONTRACTOR'S ACTIVITY SHALL STRICTLY COMPLY WITH ALL PERMITTED CONDITIONS OF APPROVAL.
2. EXCAVATIONS AND GROUND DISTURBING ACTIVITIES WITHIN DEED RESTRICTED AREAS REQUIRES NOTIFICATION TO THE WASHINGTON STATE ENERGY FACILITY SITE EVALUATION COUNCIL (EFSEC) AND COMPLIANCE WITH THE APPROVED CONTAMINATED MEDIA MANAGEMENT PLAN, APPLICABLE PORT PROTOCOLS AND ADDITIONAL REQUIREMENTS PROVIDED BY EFSEC.
3. SPECIFIC LIMITS FOR THE EAST LANDFILL LIMITS ARE PROVIDED BASED UPON PRIOR SURVEYS CONDUCTED BY HDJ DESIGN GROUP. WORK LIMIT SHALL ENCROACH UPON THE BOUNDARY OF THE EAST LANDFILL.
4. WHERE KNOWN, ADDITIONAL AREAS OF CONCERN AND POSSIBLE CONTAMINATED MEDIA LOCATIONS HAVE BEEN GENERALLY DEPICTED. CONTRACTOR SHALL COORDINATE FULLY WITH PORT OF VANCOUVER ENVIRONMENTAL STAFF AND INSPECTORS FOR MONITORING AND TESTING OF EXCAVATED MEDIA FOR POSSIBLE CONTAMINATES. PORTIONS OF AREA 200 AND AREA 500 ARE SPECIFICALLY IDENTIFIED WHERE CONTAMINATION IS LIKELY TO BE ENCOUNTERED DURING EXCAVATIONS.
5. IF MEDIA INCLUDING SOILS, OR GROUNDWATER ARE ENCOUNTERED THAT INDICATE POSSIBLE CONTAMINATION, CONTRACTOR SHALL NOTIFY VANCOUVER ENERGY SITE MANAGER, PORT OF VANCOUVER AND EFSEC IMMEDIATELY PRIOR TO PROCEEDING. SIGNS OF CONTAMINATION INCLUDE UNUSUALLY DARK SOIL AND ODORS.
6. IN AREAS OF CONCERN EXCAVATED MATERIAL SHALL BE PLACED IN SEALED WATER-TIGHT CONTAINERS OR LINED STAGING AREAS IMMEDIATELY ADJACENT TO THE WORK AREA FOR TESTING AND CLASSIFICATION OF MATERIAL PRIOR TO HAUL OFF.

CONTAMINATED MEDIA NOTES:

4. CONSTRUCTION WITHIN THE EAST LANDFILL CAP AREA CONSISTS OF GRADING A SUITABLE LEVEL BENCH WITHIN THE DEED RESTRICTED AREA TO CONSTRUCT FOUNDATIONS FOR THE CRUDE OIL PIPELINE. CONSTRUCTION ACTIVITIES SHALL NOT ENCROACH UPON THE LANDFILL AREA ITSELF AND SHALL REMAIN EAST OF THE HIGH VISIBILITY FENCING DELINEATED ON THE EROSION CONTROL PLANS.
5. PORT OF VANCOUVER IDENTIFIED POCKETS OF CONTAMINATED GROUNDWATER AND SOIL WITHIN THIS AREA. CONTRACTOR SHALL BE ADVISED THAT WORK ADJACENT TO THIS AREA WILL REQUIRE TESTING OF EXCAVATED MATERIAL PRIOR TO DISPOSAL.
6. NO CONSTRUCTION ACTIVITY IS PROPOSED IN THESE AREAS OF INDUSTRIAL WASTE. PORT HAS COMPLETED CLEANUP OF THESE SITES DURING RAIL CONSTRUCTION WHERE FEASIBLE.

LEGEND

LIMITS OF CONSTRUCTION ACTIVITY WITHIN DEED RESTRICTED AREAS



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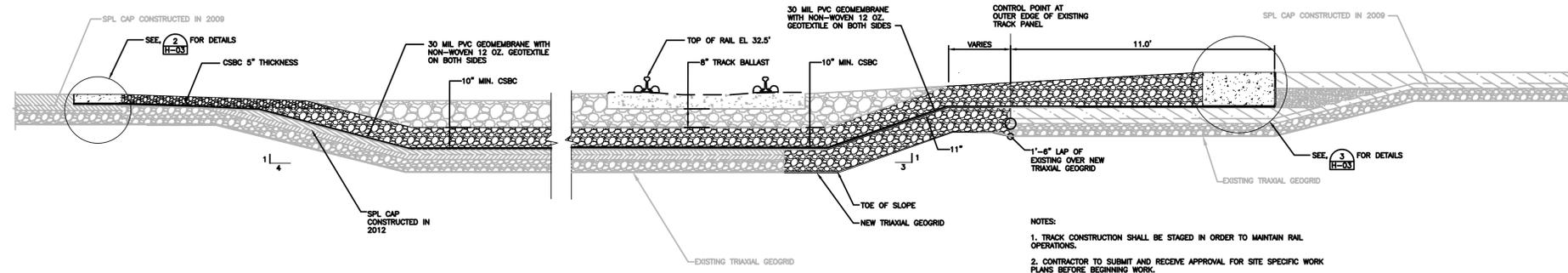
700 NE Multnomah Street, Suite 900
Portland, Oregon 97232-4189
(503) 872-4100 FAX: (503) 872-4101

Tesoro Savage Petroleum Terminal LLC

PROJECT:	VANCOUVER ENERGY PORT OF VANCOUVER, WASHINGTON
DESCRIPTION:	CONTAMINATED MEDIA LOCATIONS - 2

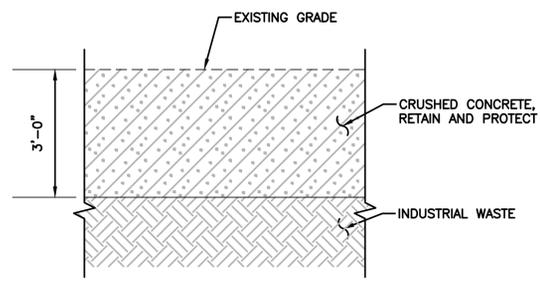
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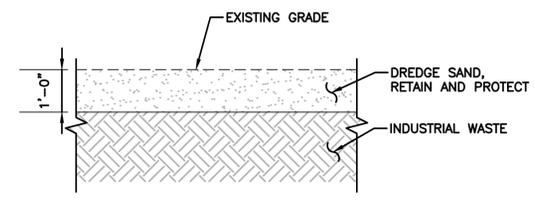


NOTES:
 1. TRACK CONSTRUCTION SHALL BE STAGED IN ORDER TO MAINTAIN RAIL OPERATIONS.
 2. CONTRACTOR TO SUBMIT AND RECEIVE APPROVAL FOR SITE SPECIFIC WORK PLANS BEFORE BEGINNING WORK.

SPL CAP SECTION
 NTS 1 0100-CD-002

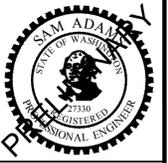


TYPICAL INGOT CAP SECTION
 NTS 2 0100-CD-002



TYPICAL NORTH/NORTH 2 LANDFILL CAP SECTION
 NTS 3 0100-CD-002

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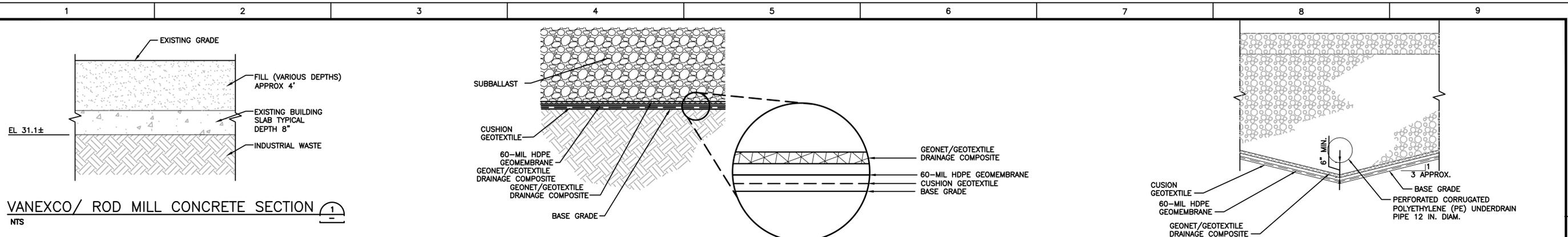
VANCOUVER ENERGY
 Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
 PORT OF VANCOUVER, WASHINGTON
 DESCRIPTION: EXISTING CAP SECTIONS

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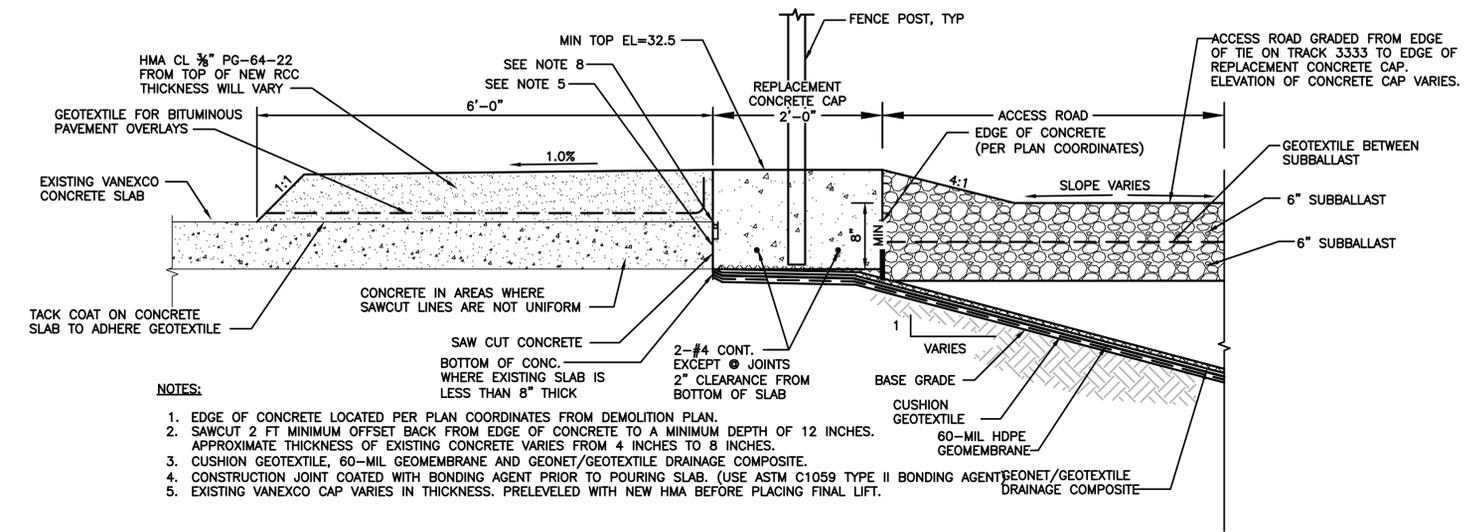
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VANEXCO/ ROD MILL CONCRETE SECTION 1
NTS

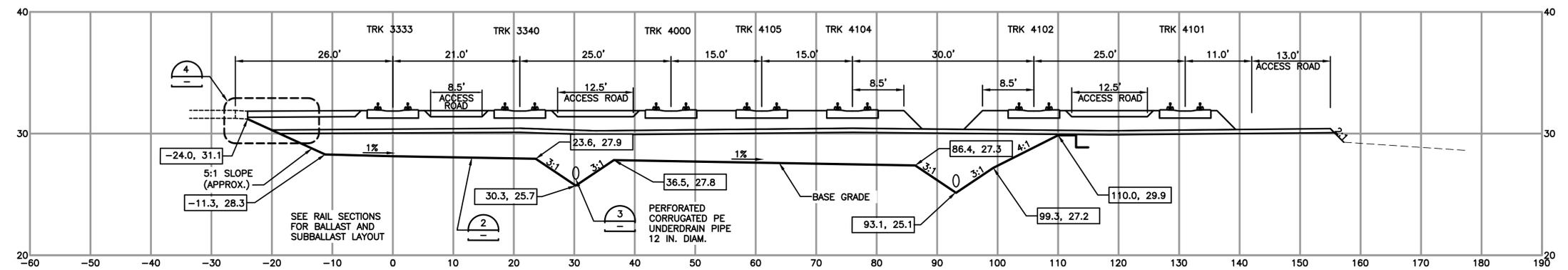
MEMBRANE SECTION 2
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UNDERDRAIN PIPE SECTION 3
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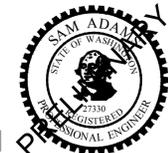
CONCRETE CAP CONNECTION DETAIL 4
NTS

- NOTES:**
1. EDGE OF CONCRETE LOCATED PER PLAN COORDINATES FROM DEMOLITION PLAN.
 2. SAWCUT 2 FT MINIMUM OFFSET BACK FROM EDGE OF CONCRETE TO A MINIMUM DEPTH OF 12 INCHES. APPROXIMATE THICKNESS OF EXISTING CONCRETE VARIES FROM 4 INCHES TO 8 INCHES.
 3. CUSHION GEOTEXTILE, 60-MIL GEOMEMBRANE AND GEONET/GEOTEXTILE DRAINAGE COMPOSITE.
 4. CONSTRUCTION JOINT COATED WITH BONDING AGENT PRIOR TO POURING SLAB. (USE ASTM C1059 TYPE II BONDING AGENT/GEONET/GEOTEXTILE DRAINAGE COMPOSITE)
 5. EXISTING VANEXCO CAP VARIES IN THICKNESS. PRELEVELLED WITH NEW HMA BEFORE PLACING FINAL LIFT.



VANEXCO LINER SECTION
SCALE: 1"=10' HORIZ
1"=5' VERT

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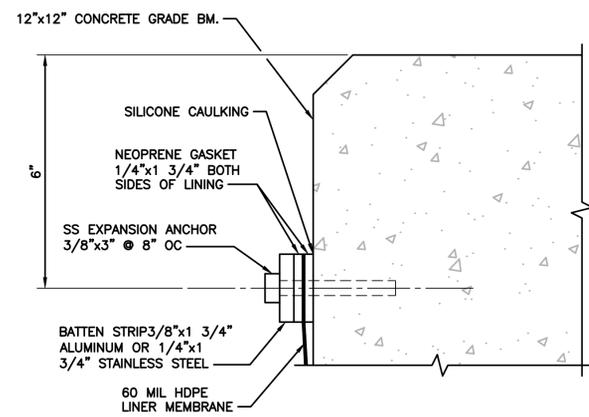
PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON
DESCRIPTION: EXISTING VANEXCO SECTIONS

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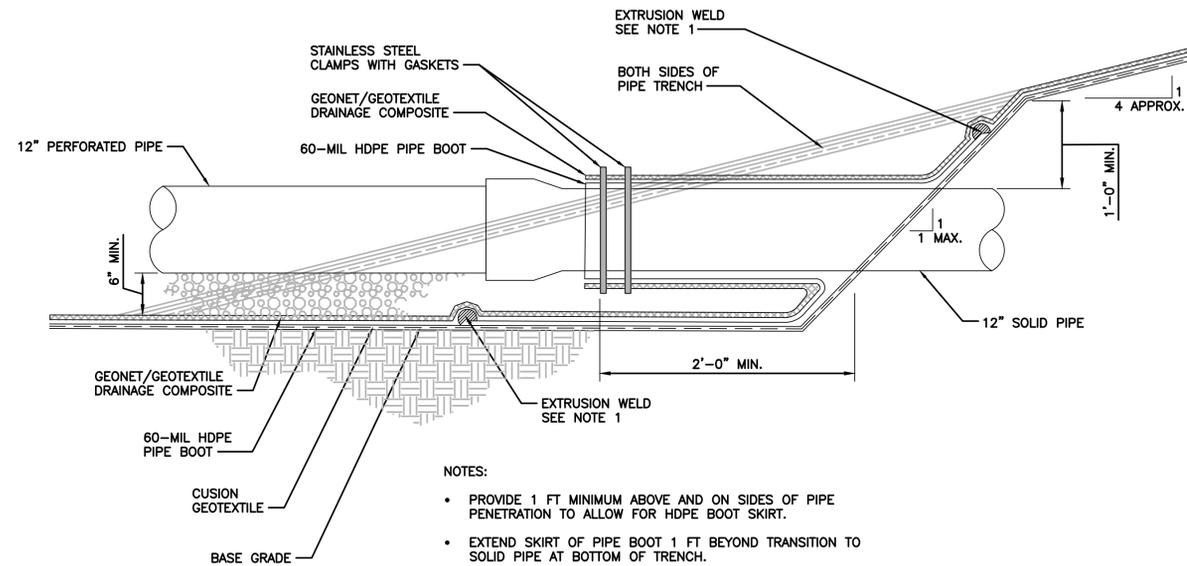
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MEMBRANE/GRADE BEAM CONNECTION 1
NTS



NOTES:

- PROVIDE 1 FT MINIMUM ABOVE AND ON SIDES OF PIPE PENETRATION TO ALLOW FOR HDPE BOOT SKIRT.
- EXTEND SKIRT OF PIPE BOOT 1 FT BEYOND TRANSITION TO SOLID PIPE AT BOTTOM OF TRENCH.

MEMBRANE PIPE PENETRATION BOOT 2
NTS

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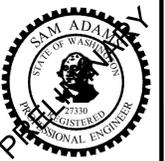
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1					

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Tesoro Savage Petroleum Terminal LLC

PROJECT:	VANCOUVER ENERGY PORT OF VANCOUVER, WASHINGTON
DESCRIPTION:	VANEXCO RESTORATION DETAILS

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NOT FOR CONSTRUCTION**



DESIGN:	DRS	START DATE:	2/2/2015	SCALE:	AS SHOWN
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