Construction Stormwater Pollution Prevention Plan

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

Appendix G
Environmental Control Drawings

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GENERAL EROSION PREVENTION & SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY EFSEC OR THEIR DESIGNEE PRIOR TO THE COMMENCEMENT OF WORK. ONCE APPROVED, THE SITE MUST BE MAINTAINED THROUGH THE LIFE OF THE PROJECT AS SHOWN ON THE PLANS.
2. EROSION AND SEDIMENT CONTROL BMPS SHALL BE SITED, DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
3. THE DEVELOPER AND/OR OWNER IS RESPONSIBLE FOR MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPS DURING AND AFTER INSTALLATION OF ALL UTILITY WORK ASSOCIATED WITH UTILITY TRENCHES.
4. PRIOR TO ANY SITE EXCAVATION, ALL STORM DRAIN INLETS SHALL BE PROTECTED DOWN SLOPE FROM ANY DISTURBED OR CONSTRUCTION AREAS PER STANDARD DETAIL E-2.20 TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAINAGE SYSTEM PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREAS. CLEAN FILTER FABRIC AS NECESSARY TO MAINTAIN DRAINAGE. REMOVE FILTER AND CLEAN CATCH BASINS FOLLOWING COMPLETION OF SITE WORK.
5. NEWLY CONSTRUCTED OR MODIFIED INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT IMMEDIATELY UPON INSTALLATION.
6. THE CONTRACTOR SHALL NOT ALLOW SEDIMENT OR DEBRIS TO ENTER NEW OR EXISTING PIPES, CATCH BASINS OR INFILTRATION SYSTEMS. IF THIS OCCURS, THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT FROM THE CATCH BASINS, DRYWELLS, AND STORM PIPES IMMEDIATELY.
7. PRIOR TO LEAVING A CONSTRUCTION SITE OR PRIOR TO DISCHARGING INTO AN INFILTRATION SYSTEM, SEDIMENT-LADEN WATER SHALL PASS THROUGH A SEDIMENT POND, TRAP, OR OTHER APPROVED BMP SYSTEM.
8. ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY THE APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS). FROM OCTOBER 1 TO APRIL 30, NO SOILS SHALL BE EXPOSED AND UNWORKED FOR MORE THAN TWO (2) DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL BE EXPOSED AND UNWORKED FOR MORE THAN SEVEN (7) DAYS.
9. SOIL STOCKPILES SHALL BE STABILIZED FROM EROSION, PROTECTED WITH SEDIMENT TRAPPING MEASURES, AND WHEN POSSIBLE, BE LOCATED AWAY FROM STORM DRAIN INLETS, WATER WAYS AND DRAINAGE CHANNELS.
10. CONSTRUCTION ROADS AND PARKING AREAS SHALL BE STABILIZED WHEREVER THEY ARE CONSTRUCTED, WHETHER PERMANENT OR TEMPORARY, FOR THE USE OF CONSTRUCTION TRAFFIC.
11. IF THE BMPS APPLIED TO A SITE ARE INSUFFICIENT TO PREVENT SEDIMENT FROM REACHING WATER BODIES, ADJACENT PROPERTIES, STORM FACILITIES OR PUBLIC RIGHT-OF-WAY, THEN THE CONTRACTOR SHALL INSTALL ADDITIONAL ALTERNATIVE BMPS.

PROTECTION OF ADJACENT PROPERTIES, ROADS/STREETS AND PAVED SURFACES

12. PROVIDE A 12-INCH DEEP PAD OF CRUSHED ROCK FOR A DISTANCE OF 100 FEET INTO THE SITE FOR ALL ACCESS POINTS UTILIZED BY CONSTRUCTION EQUIPMENT AND TRUCKS. PAD WIDTH SHALL BE A MINIMUM OF 20 FEET. ALL VEHICLES LEAVING THE SITE SHALL EGRESS ACROSS THE PAD. ACCUMULATED SEDIMENT SHALL BE PERIODICALLY REMOVED, OR ADDITIONAL ROCK SHALL BE PLACED UPON THE PAD SURFACE. ROCK SHALL BE CLEAN 4-INCH TO 8-INCH QUARRY SPALLS. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED IMMEDIATELY.
13. PAVEMENT SWEEPING AND SHOVELLING IS REQUIRED. WASHING THE PAVEMENT INTO THE STORM SYSTEM IS NOT PERMITTED.
14. IF SEDIMENT, MUD OR DEBRIS IS TRANSPORTED ONTO A PAVED SURFACE OR ROADWAY, THE PAVED SURFACE OR ROADWAY SHALL BE THOROUGHLY CLEANED WITH HIGH EFFICIENCY STREET SWEEPERS AT THE END OF EACH WORKDAY, OR MORE OFTEN IF NECESSARY. SIGNIFICANT SOIL DEPOSITS SHALL BE REMOVED FROM ROADS BY SHOVELLING AND SWEEPING. STREET WASHING IS NOT ALLOWED UNLESS APPROVED BY EFSEC AND ONLY AFTER SEDIMENT IS REMOVED IN THE MANNER DESCRIBED ABOVE.
15. A WHEEL WASH MAY BE REQUIRED IF CONSTRUCTION ENTRANCE IS NOT SUFFICIENT IN PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT. WHEEL WASH SHALL BE PER STANDARD PLAN E-1.06 AND THE STORMWATER MANUAL.
16. INSTALL SEDIMENT FENCE PER STANDARD PLAN E-2.33 PRIOR TO BUILDING CONSTRUCTION AND/OR EXCAVATION TO PREVENT SILT INTRUSION UPON ADJACENT LOTS. IF CONSTRUCTION OCCURS SIMULTANEOUSLY ON ADJACENT LOTS AND THE LOTS HAVE THE SAME OWNER DURING CONSTRUCTION, THE SILT FENCE ALONG THE COMMON LOT LINE MAY BE ELIMINATED.
17. PROPOSED PERMEABLE PAVEMENT AREAS SHALL BE SHOWN ON THE EROSION CONTROL PLAN. PERMEABLE PAVEMENT AREAS SHALL BE PROTECTED FROM SEDIMENT DURING AND AFTER INSTALLATION.

MAINTENANCE OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS

18. ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS SHALL BE REGULARLY INSPECTED AND MAINTAINED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
19. THE CONTRACTOR SHALL MAINTAIN AND HAVE ON-SITE A WRITTEN LOG OF EROSION PREVENTION AND SEDIMENT CONTROL BMP MAINTENANCE.
20. ALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER SITE STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BMPS ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED PER THE STORMWATER MANUAL.

DUST CONTROL

21. IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST, REFER TO THE STORMWATER MANUAL FOR DUST CONTROL BMPS.

TEMPORARY SEEDING

22. EXPOSED SURFACES THAT WILL NOT BE BROUGHT TO FINAL GRADE OR GIVEN A PERMANENT COVER TREATMENT WITHIN 30 DAYS OF THE EXPOSURE SHALL HAVE SEED MIX AND MULCH PLACED TO STABILIZE THE SOIL AND REDUCE EROSION SEDIMENTATION. SEEDED AREAS SHALL BE CHECKED REGULARLY TO ASSURE A GOOD STAND OF GRASS IS BEING MAINTAINED. AREAS THAT FAIL TO ESTABLISH VEGETATION COVER ADEQUATE TO PREVENT EROSION WILL BE RESEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED.
23. AN APPROVED TEMPORARY SEEDING MIXTURE SHALL BE APPLIED TO THE PREPARED SEED BED AT A RATE OF 120 LBS/ACRE. NOTE: "HYDROSEEDING" APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED.

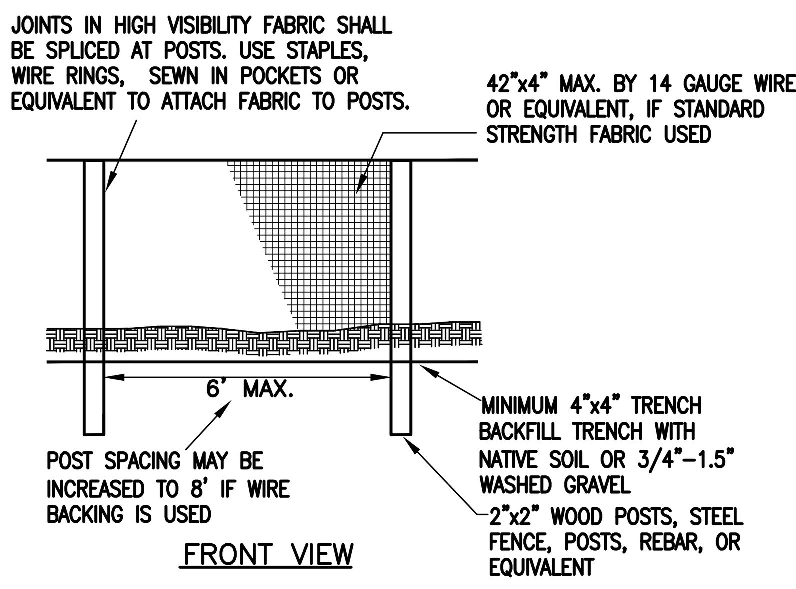
GENERAL CONSTRUCTION, STORMWATER MONITORING AND TREATMENT NOTES

1.

~ NOTES PENDING PERMIT APPROVALS ~

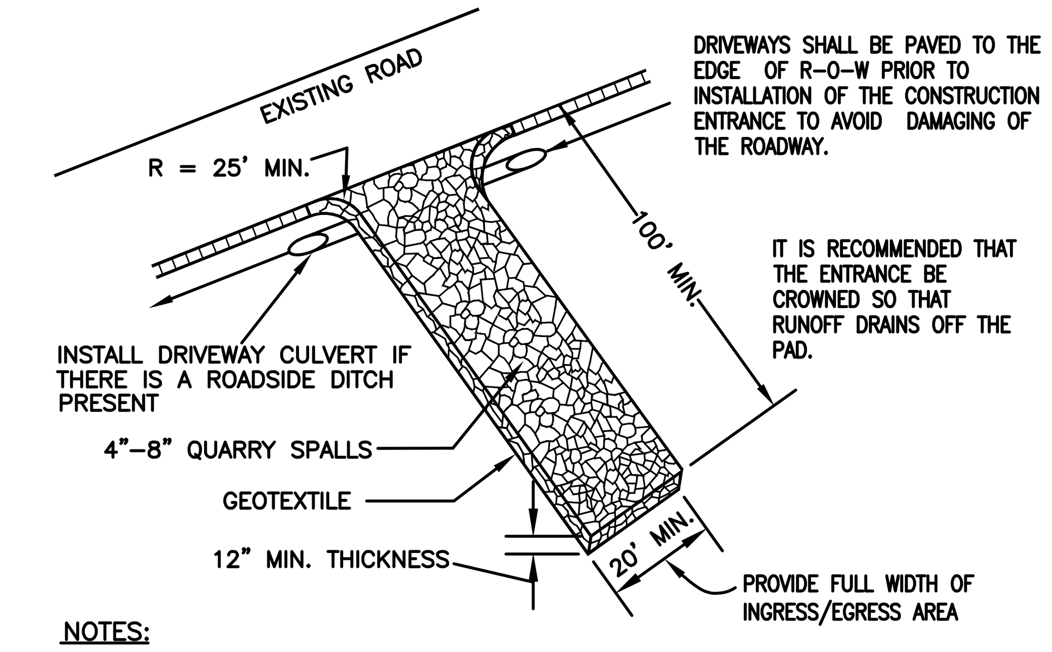
LEGEND

HIGH VISIBILITY FENCE	HVF
INTERCEPTOR DIKE AND SWALE	
SILT FENCE	
COMPOST SOCK	CS
WICK DRAINS	WD
TURBIDITY CURTAIN	TC
STABILIZED CONSTRUCTION ENTRANCE/EXIT	
CONSTRUCTION ROAD/PARKING AREA STABILIZATION	
SURFACE ROUGHENING	
LAYDOWN AREA	
WHEEL WASH	
CONCRETE WASHOUT AREA	
STORM DRAIN INLET PROTECTION	
WEIR/STORAGE TANKS	
ENHANCED SAND FILTRATION	



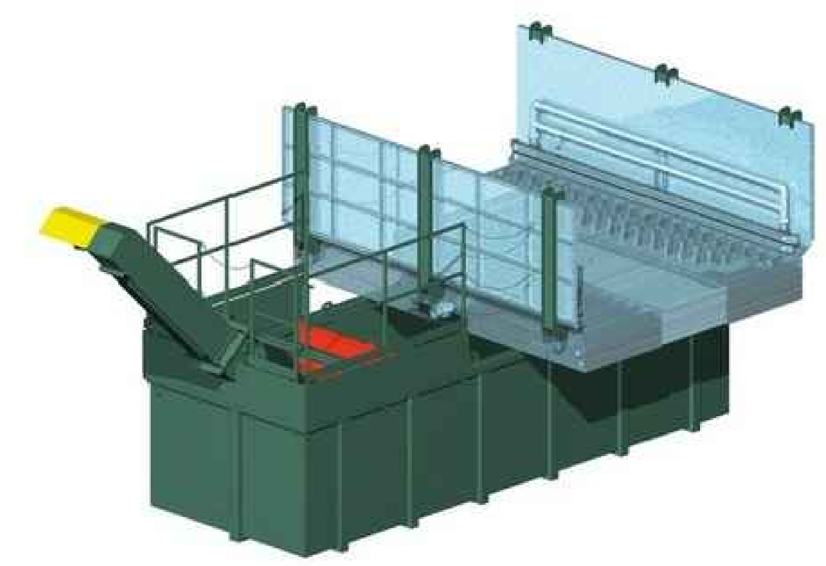
NOTES:
1. ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
2. IF THE HIGH VISIBILITY FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

HIGH VISIBILITY FENCE (1/-)
NTS
BMP C103



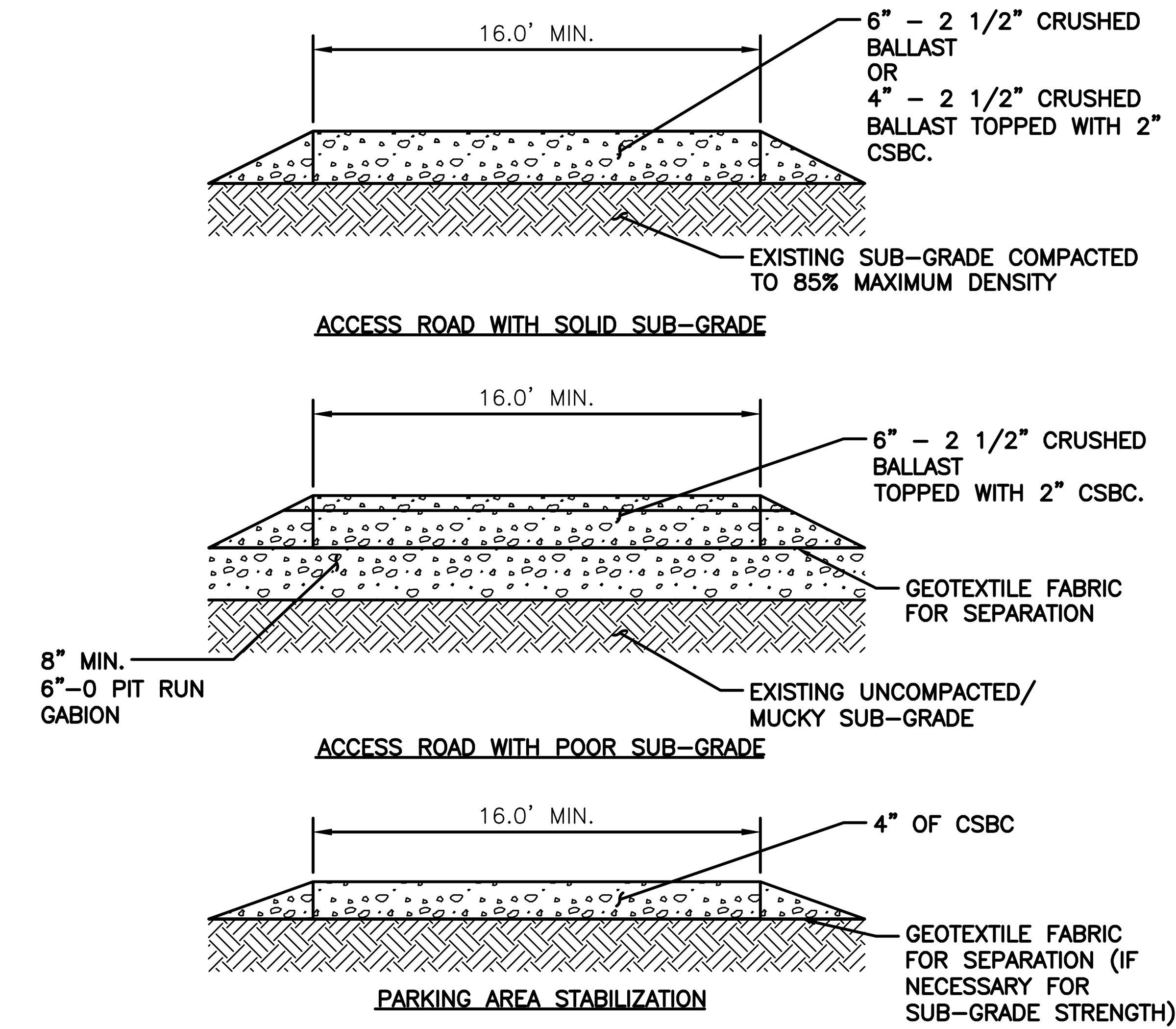
NOTES:
1. IF THE ENTRANCE SITS ON A SLOPE, PLACE A FILTER FABRIC FENCE DOWN GRADIENT.
2. TOP DRESS THE PAD WITH CLEAN 3" MINUS ROCK WHEN THE CONSTRUCTION ENTRANCE BECOMES CLOGGED WITH SEDIMENTS.
3. ANY SEDIMENT CARRIED FROM THE SITE ONTO THE STREET SHALL BE CLEANED UP IMMEDIATELY.
4. IF EQUIPMENT TRAVELS EXTENSIVELY ON UNSTABILIZED ROADS ON THE SITE, A TIRE AND VEHICLE UNDERCARRIAGE WASH NEAR THE ENTRANCE WILL BE NEEDED. PERFORM WASHING ON CRUSHED ROCK. WASH WATER WILL REQUIRE TREATMENT IN A SEDIMENT POND OR TRAP.
5. WHERE CONSTRUCTION ACCESS ABUTS A CURB, MINIMUM 2" DIAMETER PVC PIPE AND COLD-PATCH ASPHALT SHOULD BE USED TO CONSTRUCT THE APPROACH IN ORDER TO PROTECT THE CURB AND MINIMIZE OBSTRUCTION TO STORMWATER FLOW IN THE GUTTER.
6. TRUCKS LEAVING THE SITE SHALL EGRESS ACROSS THE FULL LENGTH OF THE PAD.
7. SINGLE FAMILY LOT ENTRANCES MAY HAVE THE PAD LENGTH REDUCED TO 2 0 FEET IN LENGTH AND ROCK SHALL BE CLEANED 2 INCH TO 4INCH.

STABILIZED CONSTRUCTION ENTRANCE/EXIT (2/-)
NTS
BMP C105



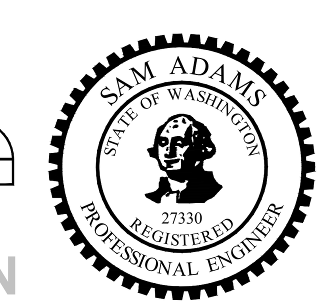
NOTES:
1. WHEEL WASH SHALL BE CAPABLE OF WASHING UP TO 150 TRUCKS PER DAY. WHEEL WASH SHALL BE AN IN-GROUND TEMPORARY MODEL WITH INTEGRAL SOLIDS REMOVAL.
2. WHEEL WASH WATER SHALL BE FILTERED OR REPLACED EACH DAY. MAY BE CONNECTED TO SANITARY SEWER.
3. UNIT SHALL BE INSPECTED DAILY TO ENSURE PROPER OPERATION.
4. WHEEL WASH SHALL BE CONLINE 400C OR EQUAL.

WHEEL WASH (3/-)
NTS
BMP C106



NOTES:
1. CONSTRUCTION ROAD AND PARKING AREA STABILIZATION NECESSARY WHERE EXISTING ASPHALT OR EXISTING GRAVEL ROADS ARE NOT AVAILABLE OR ARE INSUFFICIENT TO SUPPORT CONSTRUCTION LOADS.

CONSTRUCTION ROAD/PARKING AREA STABILIZATION (1/-)
NTS
BMP C107



PERMIT SET
NOT FOR CONSTRUCTION

NO.	DATE	REVISION	BY	CK'D	APP

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VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY, PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: ENVIRONMENTAL CONTROL NOTES AND DETAILS – 1

DESIGN:	DRS	START DATE:	2/18/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/26/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER	SHEET	REV.
0100-EC-001	1/1	

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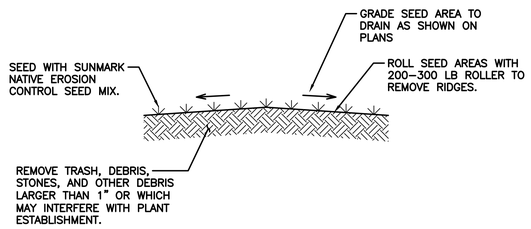
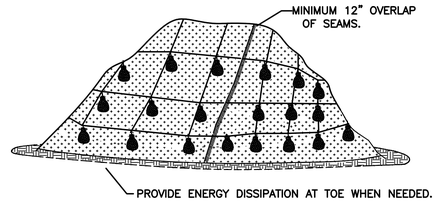


NOTES:

1. SEEDING SHALL BE ACCOMPLISHED WITH A HYDROSEED/MULCH MIXTURE. HYDROSEEDING SHALL OCCUR BETWEEN MARCH 1 AND MAY 15 AND SEPTEMBER 1 TO OCTOBER 1. PROCEED WITH SEEDING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS ARE SUITABLE FOR WORK. DO NOT SEED WHEN THE GROUND IS FROZEN, SNOW COVERED, MUDDY OR WHEN AIR TEMPERATURES EXCEEDS 90 DEGREES FAHRENHEIT.
2. EROSION CONTROL SEED MIX SHALL BE SUNMARK NATIVE EROSION CONTROL SEED MIX OR APPROVED EQUAL. SUNMARK SEEDS INTERNATIONAL, INC 18032 NE AIRPORT WAY, PORTLAND, OREGON 97230. (1–888–214–7333). SEED MIX SHALL MEET THE FOLLOWING COMPOSITION BY WEIGHT:
   a. NATIVE EROSION CONTROL MIX (1 LB/1000 SF OR 45 LBS. PER ACRE)
   (Tony Add Table from 0100–LA–001)
3. HYROSEED MULCH SHALL BE A 100% BIODEGRADABLE DYED–WOOD CELLULOSE FIBER MULCH APPLIEDAT 2,000 LBS PER ACRE WITH NON–ASPHALTIC TACKIFIER PER MANUFACTURER'S RECOMMENDATIONS.
4. 100% OF HYDROSEED AREAS SHALL SHOW A UNIFORM DISTRIBUTION OF MATERIALS. AREAS NOT RECEIVING A UNIFORM APPLICATION OF SEED, MULCH OR MULCH AT THE SPECIFIED RATE SHALL BE RESEEDED AT THE CONTRACTORS EXPENSE.
5. PROTECT STRUCTURES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES, TREES, SHRUBS, AND PLANTINGS FROM OVER–SPRAYING OR OTHER DAMAGE CAUSED BY SEEDING OPERATIONS.
6. MAINTENANCE OF THE PLANTED AREAS THROUGH THE ESTABLISHMENT PERIOD SHALL INCLUDE WATERING, PROTECTION FROM INSECTS, AND DISEASES AND WEEDING.
7. CONTRACTOR SHALL PROVIDE TEMPORARY ESTABLISHMENT WATERING OF NON IRRIGATED EROSION CONTROL SEED AREAS DURING ESTABLISHMENT AND MAINTENANCE PERIOD. UNLESS OTHERWISE INDICATED, CONTRACTOR SHALL REMOVE TEMPORARY IRRIGATION EQUIPMENT AT THE END OF THE MAINTENANCE AND WARRANTY PERIOD.
8. RE–SEED STAGING AREAS AND OTHER AREAS DISTURBED DURING CONSTRUCTION.
9. CONTRACTOR SHALL MAINTAIN SEEDED AREAS FOR A MINIMUM OF 6 MONTHS FOLLOWING THE END OF CONSTRUCTION. CONTRACTOR SHALL WARRANTY ALL SEEDED AREAS FOR A MINIMUM OF 2–YEARS FOLLOWING CONSTRUCTION.

TEMPORARY SEEDING (1 / –)
NTS
BMP C120

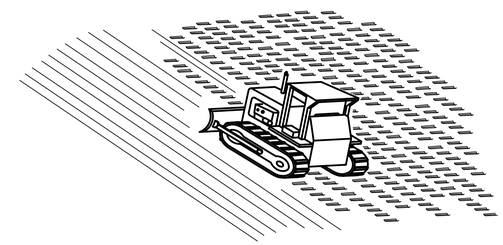


PLASTIC SHEETING

NOTES:

1. PLASTIC SHEETING IS USED TO PROVIDE IMMEDIATE PROTECTION TO SLOPES AND STOCKPILES.
2. DO NOT USE PLASTIC COVERING UPSLOPE OF AREAS SUCH AS STEEP AND/OR UNSTABLE SLOPES THAT MIGHT BE ADVERSELY AFFECTED BY CONCENTRATED RUNOFF.
3. WHEN POSSIBLE, INSTALL AN INTERCEPTOR DIKE AT THE TOP OF THE PLASTIC TO DIVERT FLOWS AWAY FROM THE PLASTIC.
4. TOE–IN THE TOP OF THE SHEETING IN A 6"x6" TRENCH BACKFILLED WITH COMPACTED NATIVE MATERIAL.
5. INSTALL A GRAVEL BERM, RIPRAP, OR OTHER SUITABLE PROTECTION AT THE TOP OF THE SLOPE IN ORDER TO DISSIPATE RUNOFF VELOCITY.
6. ANCHOR THE PLASTIC USING SANDBAGS OR OTHER SUITABLE TETHERED ANCHOR SYSTEM SPACED ON A 10' GRID SPACING IN ALL DIRECTIONS.
7. OVERLAP SEAMS 1–2', TAPE, ROLL AND STAKE THE SEAMS AND THEN WEIGH DOWN THE ENTIRE LENGTH.
8. PROVIDE ENERGY DISSIPATION AT TOE WHEN NEEDED.
9. REPLACE TORN SHEETS AND REPAIR OPEN SEAMS. COMPLETELY REMOVE AND REPLACE PLASTIC WHEN IT BEGINS TO DETERIORATE.

PLASTIC COVERING (2 / –)
NTS
BMP C123

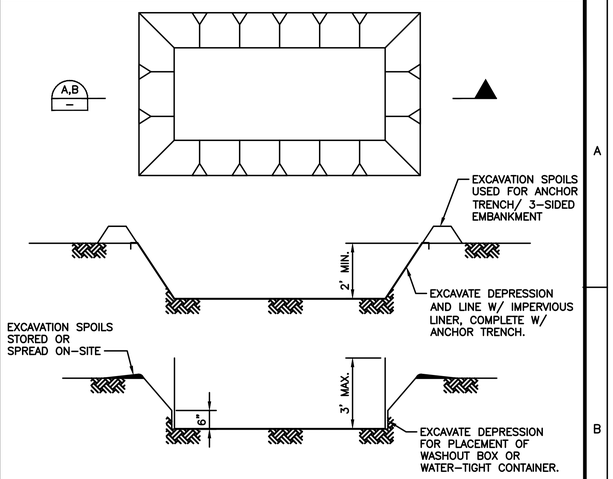


TRACKING

NOTES:

'TRACKING' WITH MACHINERY UP AND DOWN THE SLOPE PROVIDES GROOVES THAT WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF.

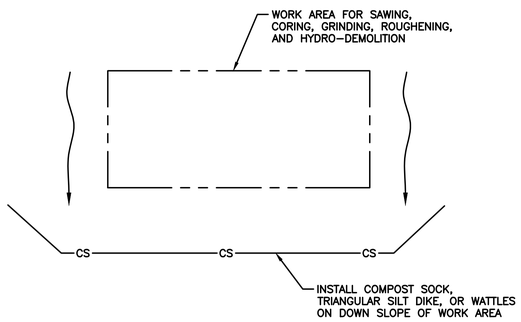
SURFACE ROUGHENING (3 / –)
NTS
BMP C130



NOTES:

1. PROVIDE DESIGNATED CONCRETE WASHOUT AREAS.
2. DISPOSAL OF SOLIDS SHALL BE TO LANDFILL OR RE–USE TO QUARRY, OR BATCH PLANT.
3. LIQUIDS SHALL BE PH NEUTRALIZED PRIOR TO HAUL OFF OR DISPOSAL TO SANITARY SEWER.
4. USE SUCTION STYLE PUMPS W/ 1/4" TRASH SCREEN ON INLET PIPING TO REMOVE LIQUID WASTE.

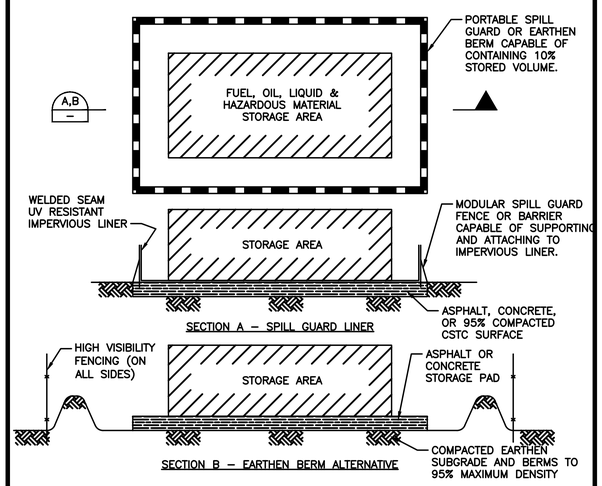
CONCRETE WASHOUT AREA (4 / –)
NTS
BMP C151



NOTES:

1. INSTALL TEMPORARY CONTAINMENT MEASURES ON DOWNSLOPE SIDE OF WORK AREAS.
2. VACUUM SLURRY AND CUTTINGS DURING CUTTING AND SURFACING OPERATIONS.
3. SLURRY AND CUTTINGS SHALL NOT REMAIN ON PERMANENT CONCRETE OR ASPHALT PAVEMENT OVERNIGHT.
4. SLURRY AND CUTTINGS SHALL NOT DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE INCLUDING STORMWATER SYSTEMS. THIS MAY REQUIRE ADDITIONAL BLOCKING OF CATCH BASINS.
5. DISPOSE OF COLLECTED SLURRY AND CUTTINGS IN A MANNER THAT DOES NOT VIOLATE GROUND WATER OR SURFACE WATER QUALITY STANDARDS.
6. DO NOT ALLOW PROCESS WATER GENERATED DURING HYDRO–DEMOLITION, SURFACE ROUGHENING, OR SIMILAR OPERATIONS TO DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE INCLUDING STORMWATER SYSTEMS. DISPOSE OF PROCESS WATER IN A MANNER THAT DOES NOT VIOLATE GROUND WATER OR SURFACE WATER QUALITY STANDARDS.
7. HANDLE AND DISPOSE OF CLEANING WASTE MATERIAL AND DEMOLITION DEBRIS IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF WATER. DISPOSE OF SWEEPING MATERIAL FROM A PICK–UP SWEEPER AT AN APPROPRIATE DISPOSAL SITE.

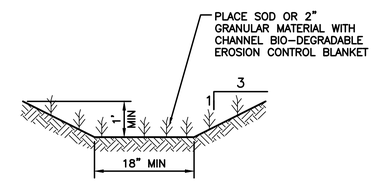
SAWCUTTING AND SURFACING POLLUTION PREVENTION (5 / –)
NTS
BMP C152



NOTES:

1. PROVIDE DELINEATED MATERIAL DELIVERY, STORAGE & CONTAINMENT AREA AT ALL PROJECT SITES.
2. INSPECT ALL CONTAINERS DAILY FOR EVIDENCE OF DAMAGE OR LEAKS AND REPLACE IMMEDIATELY.
3. CLEAN CONTAINMENT AREA INCLUDING SOIL EXCAVATION/REPLACEMENT AFTER ANY SPILL.

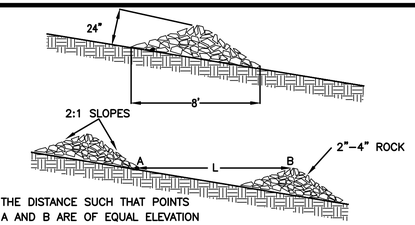
MATERIAL DELIVERY, STORAGE AND CONTAINMENT (6 / –)
NTS
BMP C153



NOTES:

1. GRADE CUTOFF DITCHES WHERE SHOWN ON–SITE @ MINIMUM 1% LONGITUDINAL SLOPE.
2. SEE LANDSCAPE DRAWING 0100_LA–001 FOR EROSION CONTROL SEED MIX. APPLY WITH TACKIFIER.
3. INSTALL ROCK CHECK DAMS PER DETAIL 8.
4. MAINTAIN VEGETATION IN DITCH DURING CONSTRUCTION UNTIL FINAL GRADING AND INSTALLATION OF STORM DRAIN SYSTEM.

INTERSEPTOR SWALE (7 / –)
NTS
BMP C200



SPACING BETWEEN CHECK DAMS

CHECK DAM NOTES:

1. CHECK DAMS ARE CONSTRUCTED ACROSS A SWALE OR DITCH TO REDUCE VELOCITIES OF CONCENTRATED FLOWS, THEREBY REDUCING EROSION AND ALLOWING A SIGNIFICANT AMOUNT OF SUSPENDED SEDIMENT TO SETTLE OUT.
2. CHECK DAMS SHALL BE USED IN TEMPORARY OR PERMANENT CHANNELS THAT DRAIN 10 ACRES OR LESS, ARE NOT YET VEGETATED, AND WHEN INSTALLING CHANNEL LINING IS NOT FEASIBLE.
3. USE TYPICAL ROCK SIZE OF 2–4 INCH. PLACE ROCK BY HAND OR BY MECHANICAL MEANS RATHER THAN DUMPING THE ROCK. BRIDGE ENTIRE DITCH OR SWALE WIDTH AND ENSURE THE CENTER OF THE DAM IS 6" LOWER THAN THE OUTER ENDS. FOR HIGHER VELOCITY FLOWS: ±5 FPS USE 6"–12" RIPRAP, AND HAND PLACE LARGER ROCK ON UPSTREAM SIDE OF DAM.
4. REMOVE CHECK DAMS FROM GRASS–LINED DITCHES AND SWALES ONCE THE GRASS IS ESTABLISHED. SEED, MULCH OR MAT THE AREA WHERE THE CHECK DAMS WERE, IMMEDIATELY FOLLOWING REMOVAL.
5. INSPECT ONCE PER WEEK ON ACTIVE SITES, ONCE EVERY TWO WEEKS ON INACTIVE SITES, AND WITHIN 24 HOURS FOLLOWING A 0.5 INCH RAIN EVENT. REMOVE SEDIMENT ONCE IT REACHES ONE–THIRD THE DEPTH OF THE ROCK WEIR. REPLACE ROCK WEIR WHEN FILTERING CAPACITY IS REDUCED BY ONE–HALF.
6. SPACING TABLE FOR CHECK DAMS:

DITCH GRADE	MINIMUM WEIR DEPTH		
	6 INCH	12 INCH	18 INCH
6%	**	L=16 ft O.C.	L=26 ft O.C.
5%	**	L= 20 ft	L= 30 ft
4%	**	L= 26 ft	L= 40 ft
3%	15 ft	L= 33 ft	L= 50 ft
2%	25 ft	L= 50 ft	L= 80 ft
1%	25 ft	L= 50 ft	L= 80 ft

**NOT ALLOWED

CHECK DAMS (8 / –)
NTS
BMP C207

PERMIT SET
NOT FOR CONSTRUCTION

SAM ADAMS, STATE OF WASHINGTON, 37330, REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	CK'D	APP

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

VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: ENVIRONMENTAL CONTROL NOTES AND DETAILS – 2

DESIGN:	DRS	START DATE:	2/19/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/26/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER: 0100–EC–002 | SHEET: 1/1 | REV.

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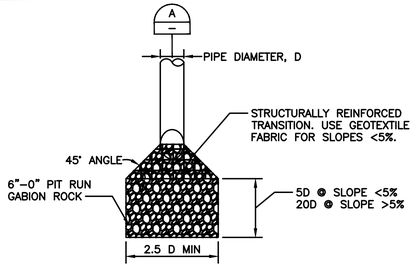
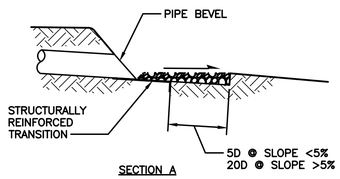
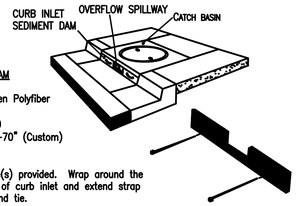




SECTION A

NOTES:
1. DETAIL PROVIDED FOR GENERAL GUIDANCE ONLY. FOR LARGE DIAMETER OUTLETS > 12", HIGH VELOCITY DISCHARGES, OR SUBMERGED OUTLETS PROTECTION SHALL BE SITE SPECIFICALLY ENGINEERED.
2. INSTALL CHECK DAMS ON OUTLET ON STEEP SLOPES AND NATURAL STONE LEVEL SPREADER EVERY 10 FEET.

OUTLET PROTECTION (1)
NTS BMP C209

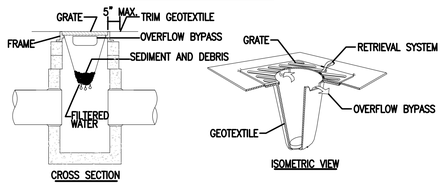


CURB INLET SEDIMENT DAM

Material: 100% Non-woven Polyfiber
Color: Blue
Height: 5" (Custom)
Widths: 36" – 54" –70" (Custom)

Installation:
Place strap through hole(s) provided. Wrap around the horizontal rod in mouth of curb inlet and extend strap through adjacent hole and tie.

CURB INLET SEDIMENT DAM



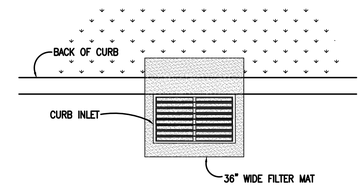
CROSS SECTION

ISOMETRIC VIEW

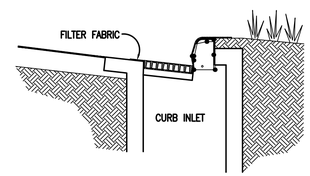
1. INLET PROTECTION MUST BE REGULARLY INSPECTED TO INSURE PROPER PLACEMENT/FUNCTION AND MAINTENANCE.

FILTER BAG

NOTES:
1. SIZE THE BELOW GRATE INLET DEVICE (BGID) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
2. THE REMOVAL SYSTEM MUST ALLOW REMOVAL OF THE BGID WITHOUT SPILLING THE COLLECTED MATERIAL.
3. THE BGID SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
4. THE CONTRACTOR SHALL INSPECT THE BAG AFTER EACH STORM EVENT AND AT REGULAR INTERVALS.
5. THE FILTER BAG SHALL BE CLEANED OR REPLACED WHEN THE BAG BECOMES HALF FULL.



PLAN VIEW

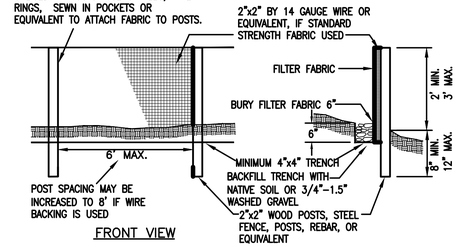


FILTER MAT

NOTES:
1. USE FILTER MAT SEDIMENT BARRIER WHEN CURB INLET IS LOCATED IN GENTLY SLOPING STREET, WITH MINIMAL NEED, WHERE WATER CAN FILTER AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BARRIER SHALL ALLOW FOR OVERFLOW FROM SEVERE STORM EVENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

STORM DRAIN INLET PROTECTION (2)
NTS BMP C220

JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS, SEWN IN POCKETS OR EQUIVALENT TO ATTACH FABRIC TO POSTS.



FRONT VIEW

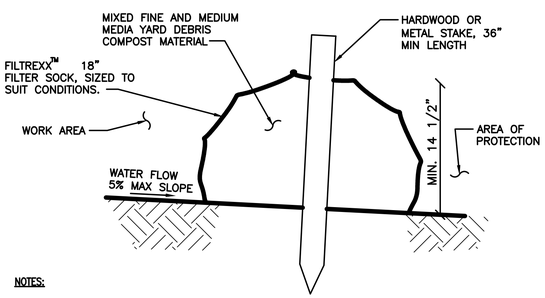
SIDE VIEW

NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE

MAINTENANCE STANDARDS: ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY

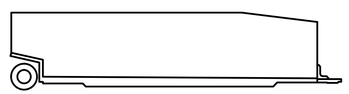
1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT POND.
3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
4. SEDIMENT DEPOSITS SHALL EITHER BE REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE–THIRD THE HEIGHT OF THE SILT FENCE, OR A SECOND SILT FENCE SHALL BE INSTALLED.
5. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

SILT FENCE (3)
NTS BMP C233



NOTES:
1. FILTER SOCKS SHALL BE PLACED AT THE LOCATION SHOWN ON THE PLAN AND INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
2. USE 2"x2"x36" HARD WOOD STAKES FOR INSTALLS WITH A MINIMUM 12" DRIVE DEPTH.
3. STEEL POSTS MAY BE USED AND SHALL BE ROLLED FROM HIGH CARBON STEEL AND HAVE A MINIMUM OF 1.25 LB/FT. POSTS SHALL BE PAINTED WITH HIGH–GRADE WEATHER RESISTANT BROWN OR BLACK STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR BUNCHED. POSTS AND ANCHOR POSTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702.
4. FILTER SOCKS FILLED AT PROJECT SITE MAY BE UP TO 250 FEET LONG. CONNECTED SOCKS SHALL BE OVERLAPPED A MINIMUM OF 5 FEET.
5. REMOVE SEDIMENT FROM BEHIND FILTER SOCK ONCE IT ACCUMULATES TO ONE–HALF OF THE ORIGINAL HEIGHT OF THE FILTER SOCK.
6. INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF THERE ARE ANY SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.
7. FILTER SOCKS SHALL BE REMOVED FROM SLOPES AFTER STABILIZATION IS COMPLETE UNLESS DIRECTED TO LEAVE IN PLACE BY PERMITTING AGENCY.

COMPOST SOCK DETAIL (4)
NTS BMP C235



STORAGE TANK
NTS

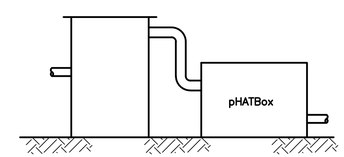
WEIR TANK
NTS

NOTES:
1. TANKS FOR STORAGE AND DEWATERING WATER SHALL BE CLEANED AND TESTED PRIOR TO DELIVERY. TANKS SHALL BE FREE OF ALL CHEMICAL AND HAZARDOUS MATERIAL RESIDUE.
2. STORAGE TANKS SHALL BE COATED INTERNALLY.
3. TANKS SHALL BE PRE–MANUFACTURED, FIXED AXLE WITH ALL NECESSARY PIPING CONNECTIONS AND VALVING.
4. INSPECTION AND CLEANING MAN–WAYS SHALL BE PROVIDED FOR EACH BAY W/I WEIR TANKS.
5. PIPING CONNECTIONS SHALL BE FITTED WITH CONTROL VALVES.
6. TANKS SHALL HAVE LEVEL GAUGE.
7. CONSTRUCTED SEDIMENT PONDS MEETING REQUIREMENTS OF BMP C241 MAY BE SUBSTITUTED.

WEIR AND STORAGE TANKS (5)
NTS BMP C241

NOTES:
1. PROVIDE SAND FILTRATION DEVICES WITH OPTION FOR ADDITION OF BIOLOGICALLY FRIENDLY FLOCCULANT. IF ADDITIONAL PRETREATMENT IS REQUIRED USE WEIR TANKS W/ FLOCCULANT UPSTREAM.
2. SYSTEM SHALL BE CAPABLE OF AUTOMATIC BACKWASH FOR TIMED, PRESSURE DIFFERENTIAL OR MANUAL BACKWASH INTERVALS.
3. PROVIDE DOWNSTREAM FLOW COMPOSITE WATER QUALITY MONITOR TO TEST FOR TURBIDITY, ZINC, AND COPPER.
4. PROVIDE ADDITIONAL CARTRIDGE OR BAG FILTERS TO ENSURE WATER QUALITY BENCHMARKS ARE ACHIEVED.
5. INSPECT AND PROVIDE PERSONNEL FOR MONITORING DAILY. REPLACE MEDIA AS NECESSARY.

ENHANCED SAND FILTRATION (6)
NTS BMP C250/C251



NOTES:
1. PH NEUTRALIZATION SYSTEMS SHALL INCLUDE REAL TIME PH MONITORING AND DATA RECORDING.
2. SYSTEM SHALL BE FULLY AUTOMATED AND CAPABLE OF MEETING NECESSARY DESIGN FLOW RATES.
3. CONTRACTOR SHALL INSPECT AND MONITOR SYSTEM DAILY.

PH NEUTRALIZATION (7)
NTS BMP C253

SAM ADAMS
STATE OF WASHINGTON
37330
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VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: ENVIRONMENTAL CONTROL NOTES AND DETAILS – 3

DESIGN:	DRS	START DATE:	12/23/2014	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/19/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER: 0100–EC–003 | SHEET: 1/1 | REV.

Last Saved by: Tony.pritchett on: Dec 29, 2014 2:36 PM File: Q:\Vancouver\2013\A13.0267\02\CADD\Dwgs\03_0100-EC-003.dwg

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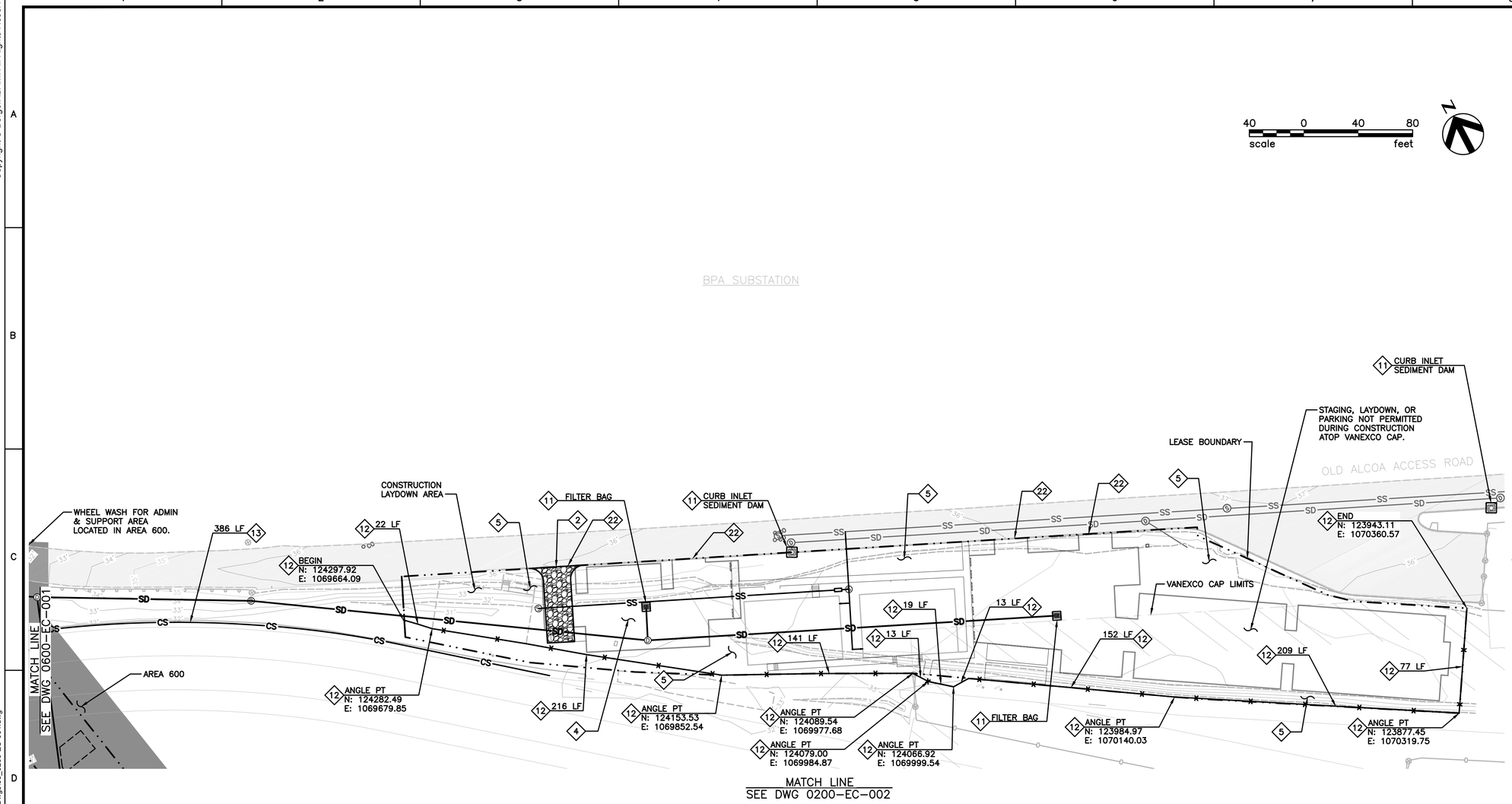

GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

2 INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL 2 ON DWG 0100-EC-001.

4 CONSTRUCT PARKING AREA STABILIZATION ON-SITE IN LAYDOWN, STAGING, AND CONSTRUCTION PERSONNEL PARKING AREAS. SEE DETAIL 1 ON DWG 0100-EC-002.

5 INSTALL TEMPORARY AND PERMANENT SEEDING IMMEDIATELY FOLLOWING FINAL GRADING. SEE DETAIL 2 ON DWG 0100-EC-002.

7 CONCRETE WASHOUT IS LOCATED IN AREA 300. SEE DWG 0300-EC-001 AND 0300-EC-002 FOR LOCATION.

11 INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.

12 INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-ED-003.

13 INSTALL COMPOST SOCK IN ACCORDANCE WITH DETAIL 4 ON DWG 0100-ED-003. INSTALL DOWN GRADIENT ON ALL TRENCHING AND UTILITY INSTALLATIONS OUTSIDE OF SILT FENCING AREAS. OVERLAP WITH SILT FENC A MINIMUM OF 50'.

22 INSTALL COMPOST SOCK CONTAINMENT TEMPORARILY DURING SAWCUTTING. VACUUM SLURRY AND DISPOSE OF TO SANITARY SEWER. CONTRACTOR SHALL PROTECT ALL SURFACE WATER FROM SAWCUTTING SLURRIES, AND PROVIDE CONTAINMENT FOR ALL CONCRETE OR ASPHALT DEBRIS.

SAM ADAMS
STATE OF WASHINGTON
27330
REGISTERED
PROFESSIONAL ENGINEER

PERMIT SET
NOT FOR CONSTRUCTION

NO.	DATE	REVISION	BY	CK'D	APP

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VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 200
ENVIRONMENTAL CONTROL PLAN – 1

DESIGN:	DRS	START DATE:	2/19/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/24/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER	SHEET	REV.
0200-EC-001	1/1	

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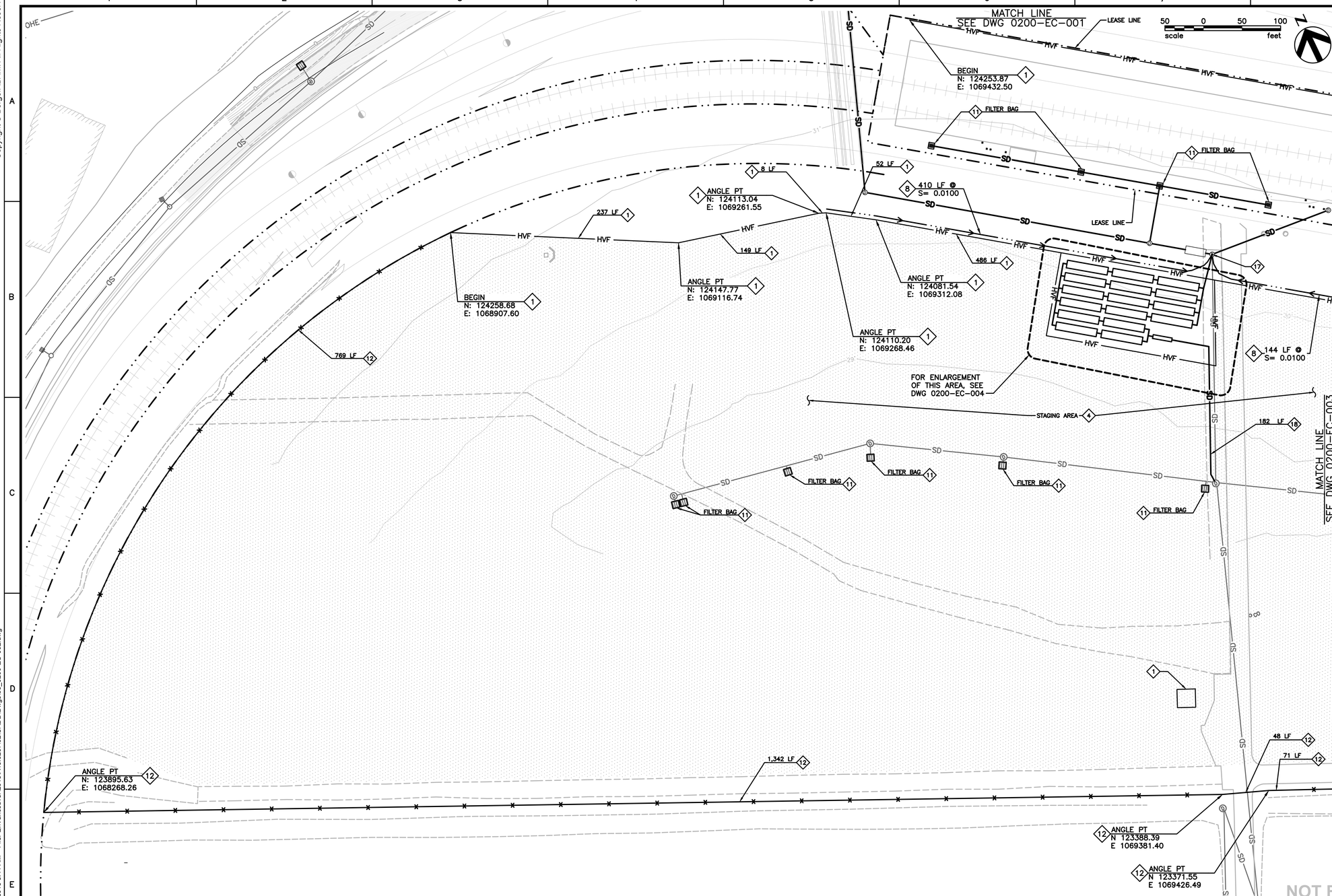

GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

1. INSTALL HIGH VISIBILITY FENCING. SEE DETAIL 1 ON DWG 0100-EC-001.
4. CONSTRUCT PARKING AREA STABILIZATION ON-SITE IN LAYDOWN, STAGING, AND CONSTRUCTION PERSONNEL PARKING AREAS. SEE DETAIL 1 ON DWG 0100-EC-002.
7. CONCRETE WASHOUT IS LOCATED IN AREA 300. SEE DWG 0300-EC-002 FOR LOCATION.
8. CONSTRUCT STORMWATER INTERCEPTOR IN THE LOCATION SHOWN. GENTLY GRADE LAYDOWN AREA TO INTERCEPTOR SWALE AS NECESSARY. SEE DETAIL 7 ON DWG 0100-EC-002.
11. INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.
12. INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-EC-003.
17. INSTALL PIPE PLUG ON DOWNSTREAM SIDE OF EXISTING STORM DRAIN STRUCTURE. CONTRACTOR SHALL PROVIDE PACKAGE STORMWATER HANDLING SUCTION PRIME PUMPING SYSTEM COMPLETE WITH GENERATOR, ON-SITE REDUNDANT PUMP, AND AUTODIALER NOTIFICATION SYSTEM.
18. INSTALL SOLID WALL, FUSED TEMPORARY HDPE PUMP EFFLUENT LINE AND MANIFOLD TO STORAGE/SURGE TANKS FOR TREATMENT.

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NOT FOR CONSTRUCTION

SAM ADAMS
STATE OF WASHINGTON
27330
REGISTERED
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	CK'D	APP

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VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 200
ENVIRONMENTAL CONTROL PLAN – 2

DESIGN:	DRS	START DATE:	2/20/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/24/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER	SHEET	REV.
0200-EC-002	1 / 1	

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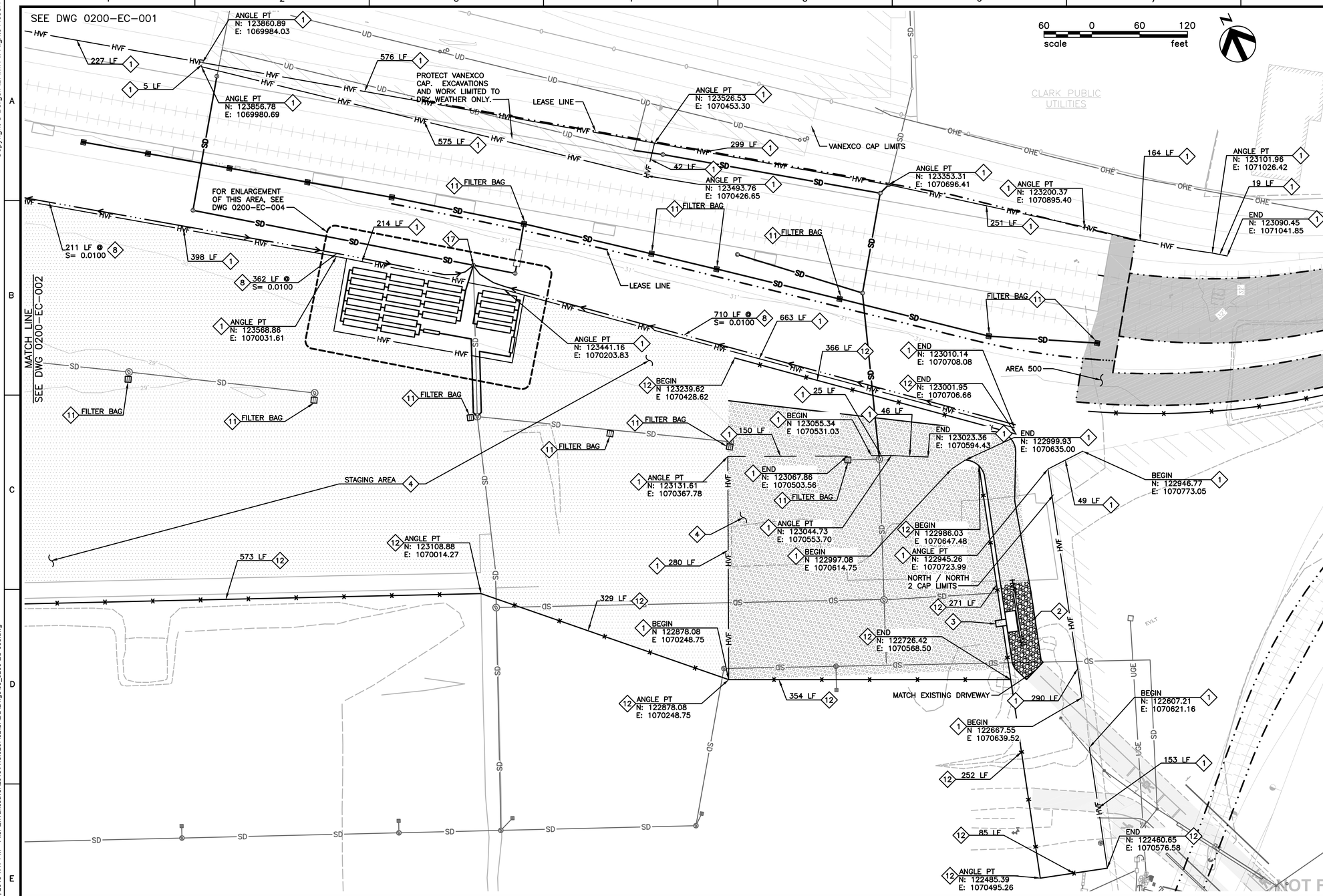

GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

1. INSTALL HIGH VISIBILITY FENCING. SEE DETAIL 1 ON DWG 0100-EC-001.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL 2 ON DWG 0100-EC-001.
3. INSTALL PACKAGED WHEEL WASH DURING PERIODS OF GROUND DISTURBANCE DURING THE WET SEASON. SEE DETAIL 3 ON DWG 0100-EC-001.
4. CONSTRUCT PARKING AREA STABILIZATION ON-SITE IN LAYDOWN, STAGING, AND CONSTRUCTION PERSONNEL PARKING AREAS. SEE DETAIL 1 ON DWG 0100-EC-002.
7. CONCRETE WASHOUT IS LOCATED IN AREA 300. SEE DWG 0300-EC-001 AND 0300-EC-003 FOR LOCATION.
8. CONSTRUCT STORMWATER INTERCEPTOR IN THE LOCATION SHOWN. GENTLY GRADE LAYDOWN AREA TO INTERCEPTOR SWALE AS NECESSARY. SEE DETAIL 7 ON DWG 0100-EC-002.
11. INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.
12. INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-EC-003.

PERMIT SET
NOT FOR CONSTRUCTION

SAM ADAMS STATE OF WASHINGTON 37336 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	CK'D	APP

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VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 200
ENVIRONMENTAL CONTROL PLAN – 3

DESIGN:	DRS	START DATE:	2/24/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/24/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER	SHEET	REV.
0200-EC-003	1/1	

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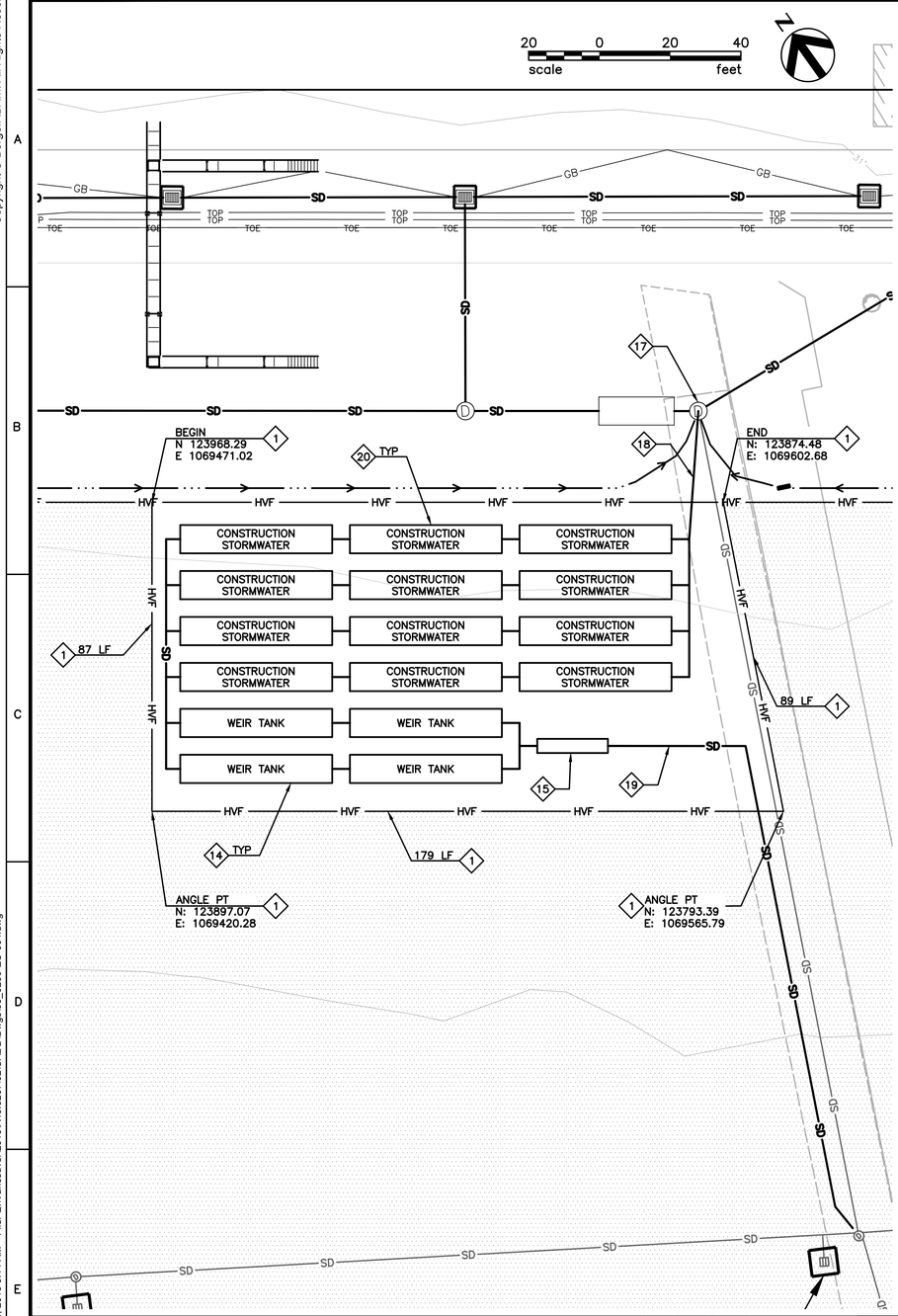

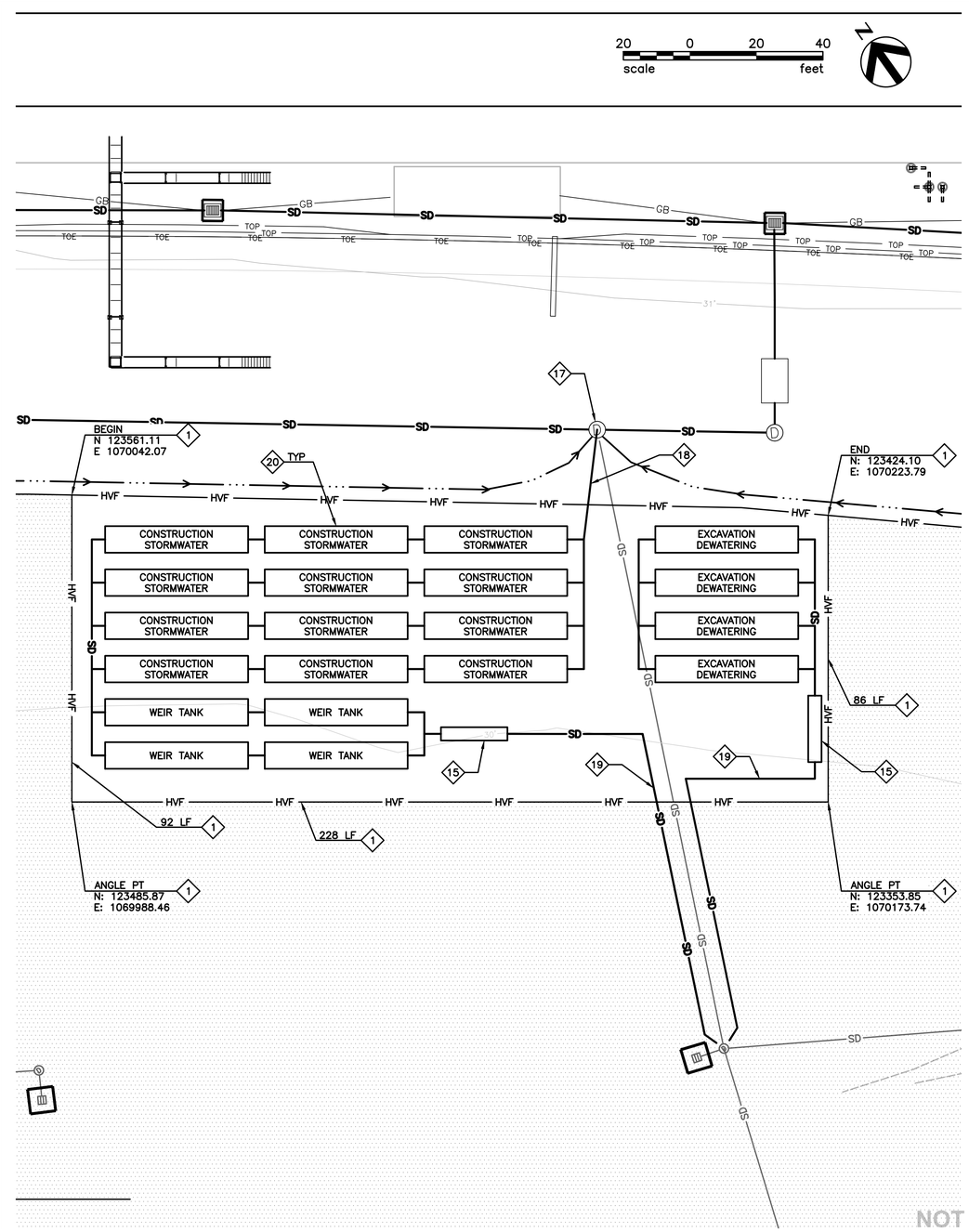

GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

1. INSTALL HIGH VISIBILITY FENCING. SEE DETAIL 1 ON DWG 0100-EC-001.
4. CONSTRUCT PARKING AREA STABILIZATION ON-SITE IN LAYDOWN, STAGING, AND CONSTRUCTION PERSONNEL PARKING AREAS. SEE DETAIL 1 ON DWG 0100-EC-002.
8. CONSTRUCT STORMWATER INTERCEPTOR IN THE LOCATION SHOWN. GENTLY GRADE LAYDOWN AREA TO INTERCEPTOR SWALE AS NECESSARY. SEE DETAIL 7 ON DWG 0100-EC-002.
11. INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.
12. INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-EC-003.
14. INSTALL WEIR TANKS FOR BASIC SEDIMENT TREATMENT. SEE DETAIL 5 ON DWG 0100-EC-003.
15. INSTALL ENHANCED SAND FILTRATION AND ADDITIONAL TREATMENT AS REQUIRED TO MEET PERMIT CONDITIONS. SEE DETAIL 6 ON DWG 0100-EC-003.
17. INSTALL PIPE PLUG ON DOWNSTREAM SIDE OF EXISTING STORM DRAIN STRUCTURE. CONTRACTOR SHALL PROVIDE PACKAGE STORMWATER HANDLING SUCTION PRIME PUMPING SYSTEM COMPLETE WITH GENERATOR, ON-SITE REDUNDANT PUMP, AND AUTODIALER NOTIFICATION SYSTEM.
18. INSTALL SOLID WALL, FUSED TEMPORARY HDPE PUMP EFFLUENT LINE AND MANIFOLD TO STORAGE/SURGE TANKS FOR TREATMENT.
19. INSTALL STORMWATER TREATMENT SYSTEM OUTFALL PIPING TO EXISTING STORM DRAIN. CONTRACTOR SHALL PROVIDE FLOW COMPOSITE SAMPLER AND PORT TO EXTRACT DAILY GRAB SAMPLES.
20. INSTALL 1.5 MILLION GALLONS OF STORAGE/SURGE TANKS.

SAM ADAMS
STATE OF WASHINGTON
27330
REGISTERED
PROFESSIONAL ENGINEER

PERMIT SET
NOT FOR CONSTRUCTION

NO.	DATE	REVISION	BY	CK'D	APP

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700 NE Multnomah Street, Suite 900
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VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 200
ENVIRONMENTAL CONTROL PLAN – 4

DESIGN:	DRS	START DATE:	2/20/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/20/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36
DRAWING NUMBER				SHEET	REV.
0200-EC-004				1/1	

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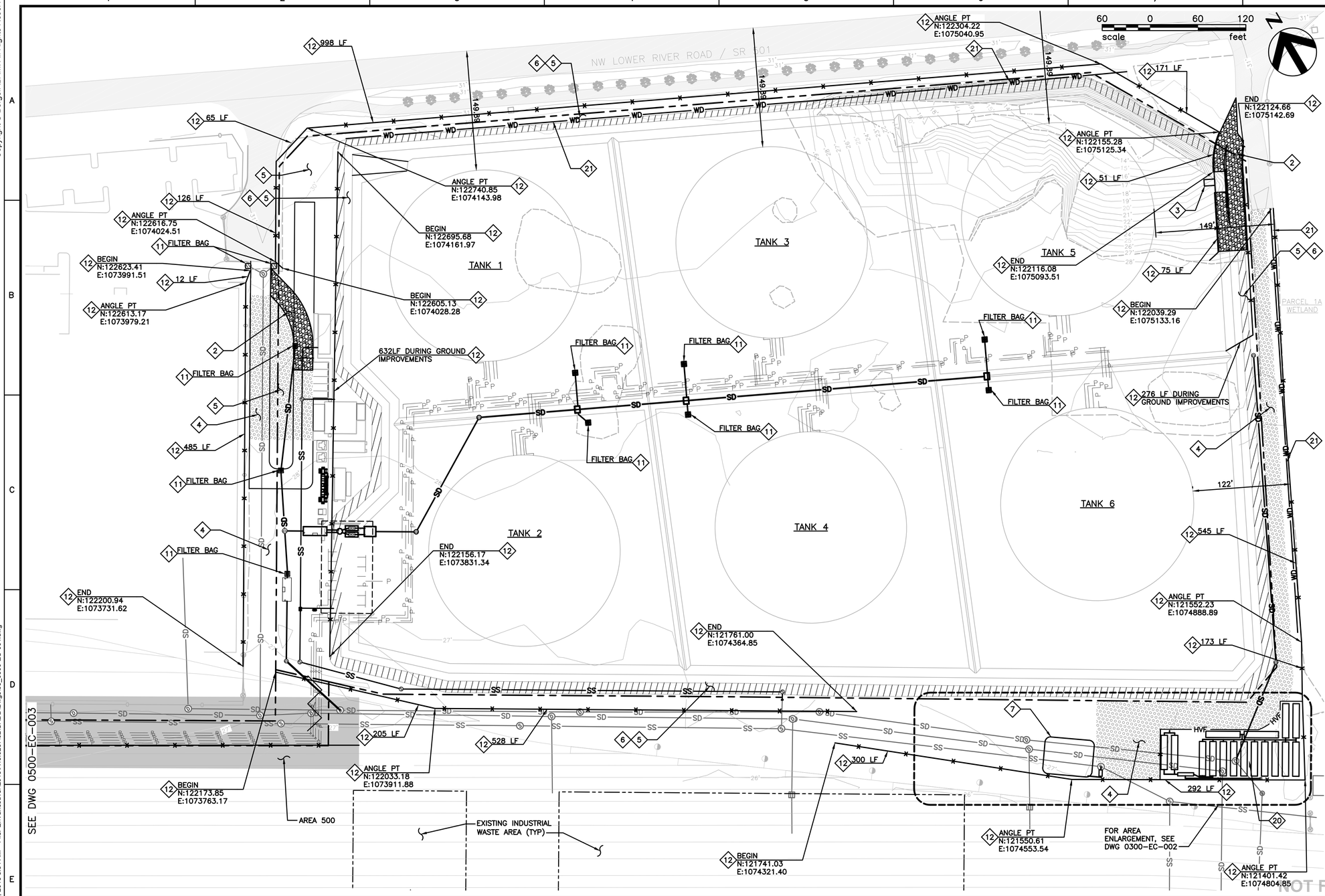

GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

1. INSTALL HIGH VISIBILITY FENCING. SEE DETAIL 1 ON DWG 0100-EC-001.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL 2 ON DWG 0100-EC-001.
3. INSTALL PACKAGED WHEEL WASH DURING PERIODS OF GROUND DISTURBANCE DURING THE WET SEASON. SEE DETAIL 3 ON DWG 0100-EC-001.
4. CONSTRUCT PARKING AREA STABILIZATION ON-SITE IN LAYDOWN, STAGING, AND CONSTRUCTION PERSONNEL PARKING AREAS. SEE DETAIL 1 ON DWG 0100-EC-002.
5. INSTALL TEMPORARY AND PERMANENT SEEDING IMMEDIATELY FOLLOWING FINAL GRADING. SEE DETAIL 2 ON DWG 0100-EC-002.
6. PERFORM SURFACE ROUGHENING ON PRIMARY CONTAINMENT BERMS DURING CONSTRUCTION. SEE DETAIL 4 ON DWG 0100-EC-002.
7. INSTALL CONCRETE WASHOUT AREA IN ACCORDANCE WITH DETAIL 6 ON DRAWING 0100-EC-002.
8. CONSTRUCT STORMWATER INTERCEPTOR IN THE LOCATION SHOWN. GENTLY GRADE LAYDOWN AREA TO INTERCEPTOR SWALE AS NECESSARY. SEE DETAIL 7 ON DWG 0100-EC-002.
11. INSTALL CHECK DAMS IN EXISTING BIOFILTRATION SWALE AS SHOWN. SEE DETAIL 8 ON DWG 0100-EC-002.
12. INSTALL SILT FENCE. SEE DETAIL 3 IN DWG0100-EC-003.
20. INSTALL 60,000 GALLONS OF STORAGE/SURGE TANKS.
21. INSTALL WICK DRAINS AT 16' O.C. MINIMUM SPACING WHERE SHOWN WHEN GROUND IMPROVEMENTS ARE WITHIN 150 FEET OF ADJACENT WETLANDS. CONTRACTOR SHALL SUBMIT ENGINEERED DESIGN FOR REVIEW AND APPROVAL.

SAM ADAMS STATE OF WASHINGTON 37330 REGISTERED PROFESSIONAL ENGINEER

PERMIT SET
NOT FOR CONSTRUCTION

NO.	DATE	REVISION	BY	CK'D	APP

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

VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 300
ENVIRONMENTAL CONTROL PLAN

DESIGN:	DRS	START DATE:	2/23/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/24/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER	SHEET	REV.
0300-EC-001	1/1	

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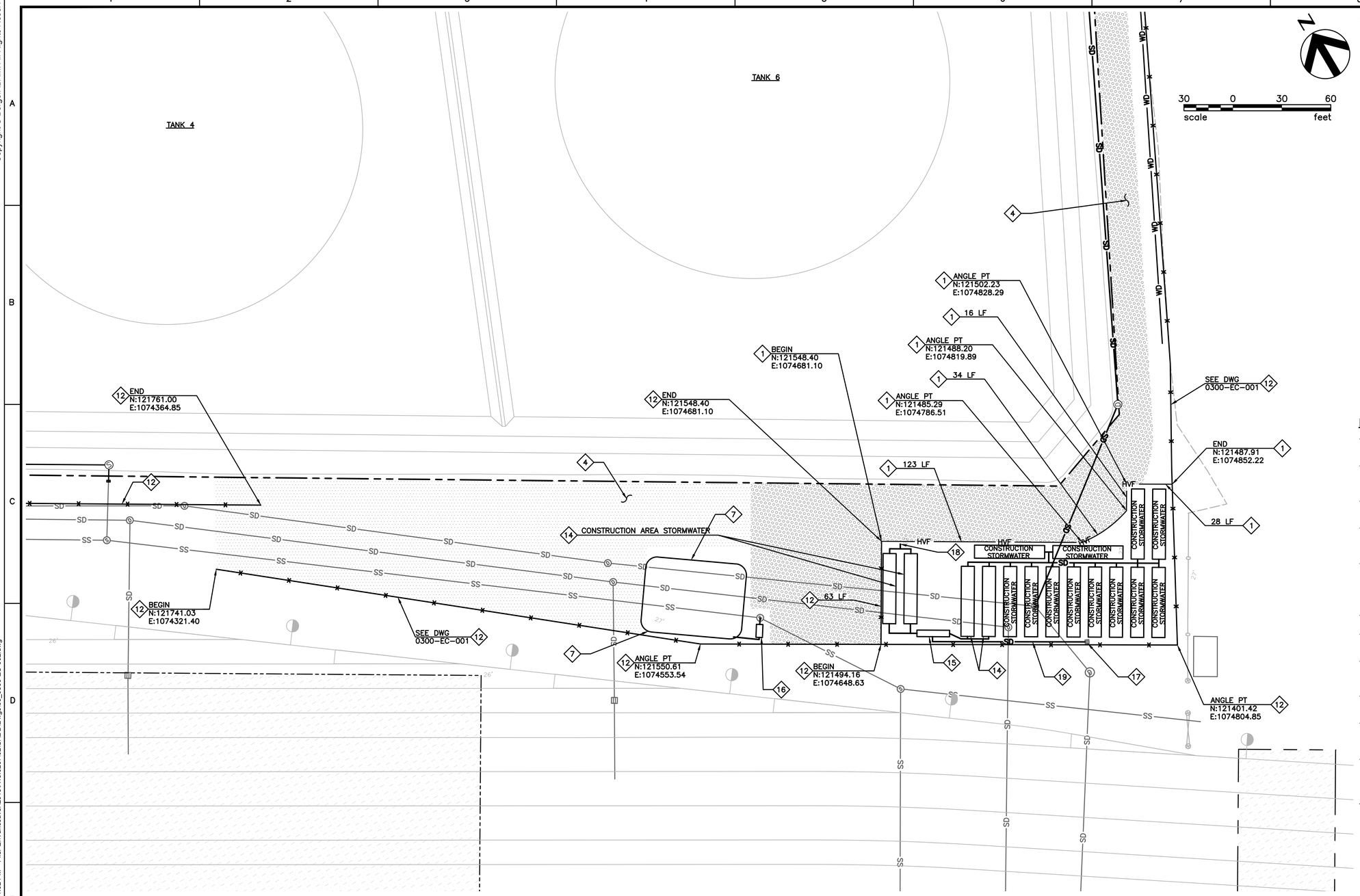

GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

1. INSTALL HIGH VISIBILITY FENCING. SEE DETAIL 1 ON DWG 0100-EC-001.
4. CONSTRUCT PARKING AREA STABILIZATION ON-SITE IN LAYDOWN, STAGING, AND CONSTRUCTION PERSONNEL PARKING AREAS. SEE DETAIL 1 ON DWG 0100-EC-002.
7. INSTALL CONCRETE WASHOUT AREA. SEE DETAIL 6 ON DWG 0100-EC-002
8. CONSTRUCT STORMWATER INTERCEPTOR IN THE LOCATION SHOWN. GENTLY GRADE LAYDOWN AREA TO INTERCEPTOR SWALE AS NECESSARY. SEE DETAIL 7 ON DWG 0100-EC-002.
11. INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.
12. INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-EC-003.
14. INSTALL WEIR TANKS FOR BASIC SEDIMENT TREATMENT. SEE DETAIL 6 ON DWG 0100-EC-003.
15. INSTALL ENHANCED SAND FILTRATION AND ADDITIONAL TREATMENT AS REQUIRED TO MEET PERMIT CONDITIONS. SEE DETAIL 6 ON DWG 0100-EC-003.
16. INSTALL PH NEUTRALIZATION TREATMENT AS REQUIRED TO MEET PERMIT CONDITIONS. SEE DETAIL 7 ON DWG 0100-EC-003.
18. INSTALL SOLID WALL, FUSED TEMPORARY HDPE PUMP EFFLUENT LINE AND MANIFOLD TO STORAGE/SURGE TANKS FOR TREATMENT.
19. INSTALL STORMWATER TREATMENT SYSTEM OUTFALL PIPING TO EXISTING STORM DRAIN. CONTRACTOR SHALL PROVIDE FLOW COMPOSIT SAMPLER AND PORT TO EXTRACT DAILY GRAB SAMPLES.
20. INSTALL 60,000 GALLONS OF STORAGE/SURGE TANKS.

SAM ADAMS
STATE OF WASHINGTON
27330
REGISTERED
PROFESSIONAL ENGINEER

PERMIT SET
NOT FOR CONSTRUCTION

NO.	DATE	REVISION	BY	CK'D	APP

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

VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 300
ENVIRONMENTAL CONTROL PLAN

DESIGN:	DRS	START DATE:	2/17/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/20/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER: 0300-EC-002 | SHEET 1/1 | REV.

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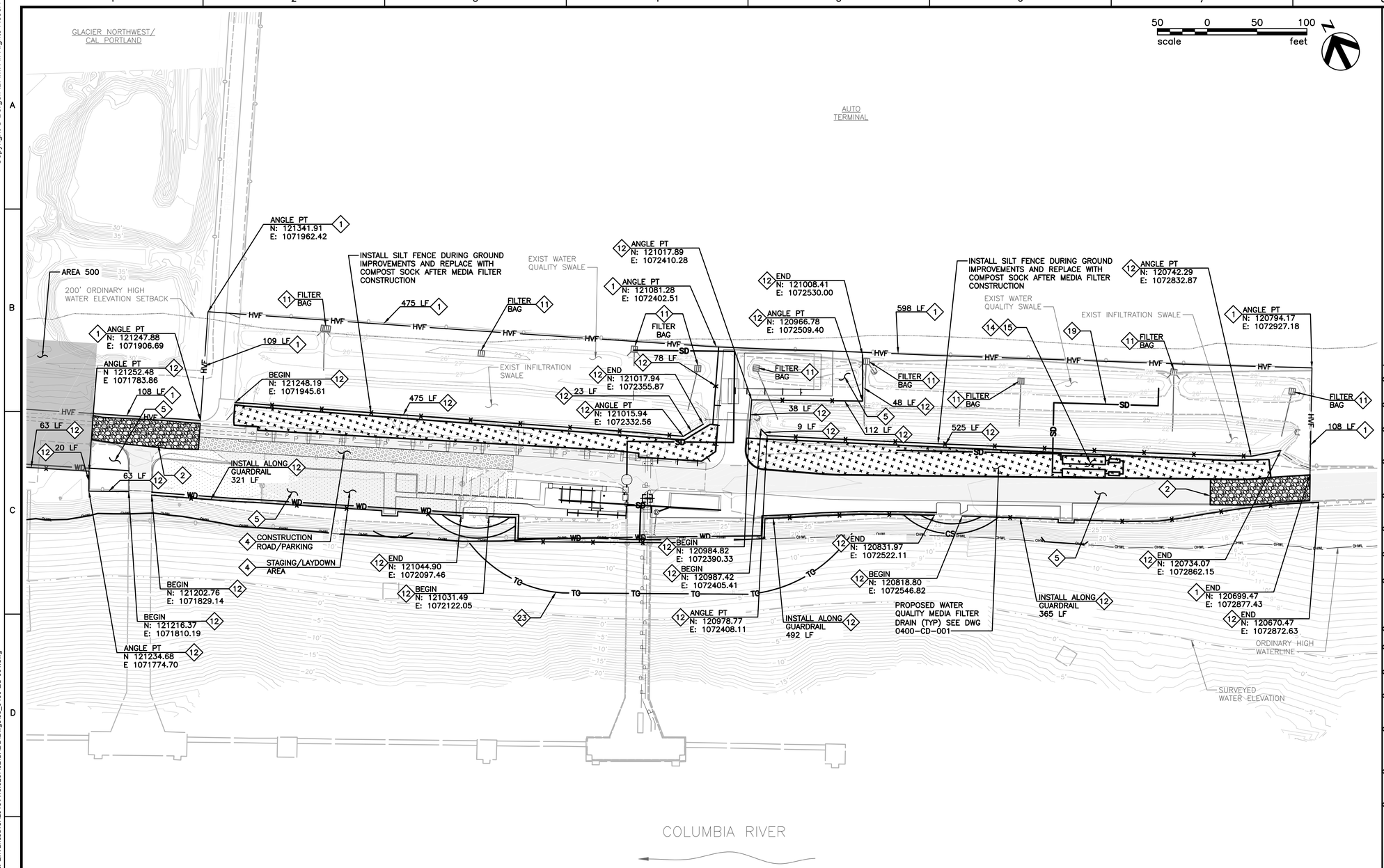

GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

1. INSTALL HIGH VISIBILITY FENCING. SEE DETAIL 1 ON DWG 0100-EC-001.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL 2 ON DWG 0100-EC-001.
3. INSTALL PACKAGED WHEEL WASH DURING PERIODS OF GROUND DISTURBANCE DURING THE WET SEASON. SEE DETAIL 3 ON DWG 0100-EC-001.
4. CONSTRUCT PARKING AREA STABILIZATION ON-SITE IN LAYDOWN, STAGING, AND CONSTRUCTION PERSONNEL PARKING AREAS. SEE DETAIL 1 ON DWG 0100-EC-002.
5. INSTALL TEMPORARY AND PERMANENT SEEDING IMMEDIATELY FOLLOWING FINAL GRADING. SEE DETAIL 2 ON DWG 0100-EC-002.
7. CONCRETE WASHOUT IS LOCATED IN AREA 300. SEE DWG 0300-EC-001 AND 0300-EC-002 FOR LOCATION.
9. INSTALL CHECK DAMS IN EXISTING BIOFILTRATION SWALE AS SHOWN. SEE DETAIL 8 ON DWG 0100-EC-002.
11. INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.
12. INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-EC-003.
13. INSTALL COMPOST SOCK IN ACCORDANCE WITH DETAIL 4 ON DRAWING 0100-EC-003
14. INSTALL WEIR TANKS FOR BASIC SEDIMENT TREATMENT. SEE DETAIL 5 ON DWG 0100-EC-003.
15. INSTALL ENHANCED SAND FILTRATION AND ADDITIONAL TREATMENT AS REQUIRED TO MEET PERMIT CONDITIONS. SEE DETAIL 6 ON DWG 0100-EC-003.
19. INSTALL STORMWATER TREATMENT SYSTEM OUTFALL PIPING TO EXISTING STORM DRAIN. CONTRACTOR SHALL PROVIDE FLOW COMPOSITE SAMPLER AND PORT TO EXTRACT DAILY GRAB SAMPLES.
21. INSTALL WICK DRAINS AT 8' O.C. MAXIMUM SPACING ALONG COLUMBIA RIVER WATERFRONT. CONTRACTOR SHALL SUBMIT ENGINEERED DESIGN FOR REVIEW AND APPROVAL.
23. INSTALL TYPE II TURBIDITY CURTAIN DURING GROUND IMPROVEMENT WORK NEAR THE ABUTMENT.

PERMIT SET
NOT FOR CONSTRUCTION

SAM ADAMS — STATE OF WASHINGTON — 27330 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	CK'D	APP

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

VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 400
ENVIRONMENTAL CONTROL PLAN

DESIGN:	DRS	START DATE:	2/23/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/24/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER	SHEET	REV.
0400-EC-001	1/1	

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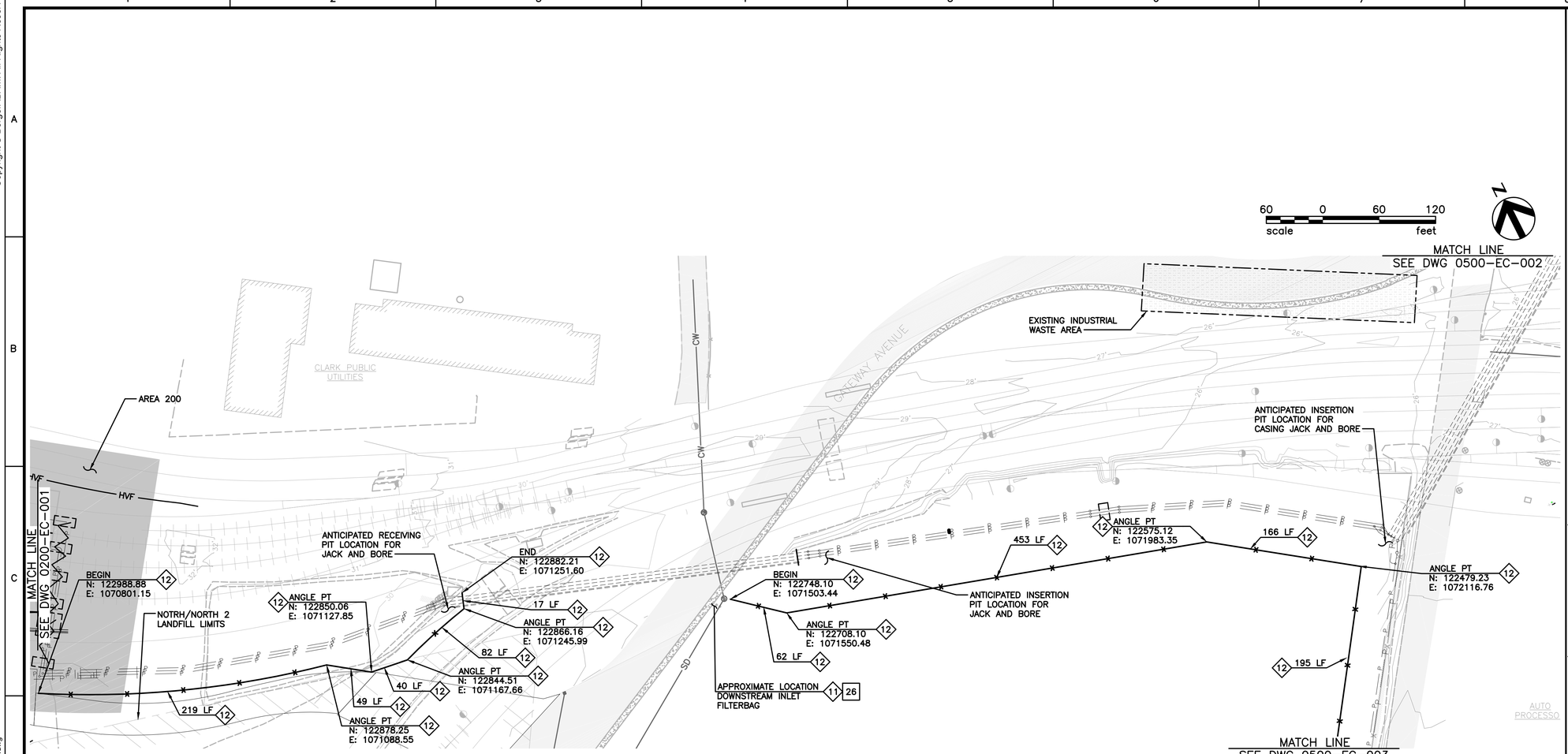


GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

1 INSTALL HIGH VISIBILITY FENCING. SEE DETAIL 1 ON DWG 0100-EC-001.

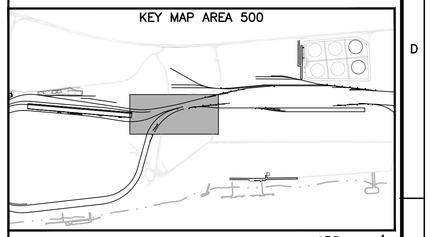
11 INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.

12 INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-EC-003.

DRAINAGE NOTES:

26 RETROFIT SPILL TRAP WITHIN EXISTING INLET PER DETAIL 4 ON DRAWING 0100-CD-006.

KEY MAP AREA 500



PRELIMINARY
SAM ADAMS
STATE OF WASHINGTON
17330
REGISTERED PROFESSIONAL ENGINEER

PERMIT SET
NOT FOR CONSTRUCTION

NO.	DATE	REVISION	BY	CK'D	APP

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

VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: ENVIRONMENTAL CONTROL PLAN – TRANSFER PIPELINE AREA – 1

DESIGN:	DRS	START DATE:	2/23/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/24/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER	SHEET	REV.
0500-EC-001	1 / 1	

Last Saved by: Tony.pritchett on: Feb 23, 2015 9:12 AM File: Q:\Vancouver\2013\A13.0267\02\CADD\Dwgs\03_0500-EC-001.dwg

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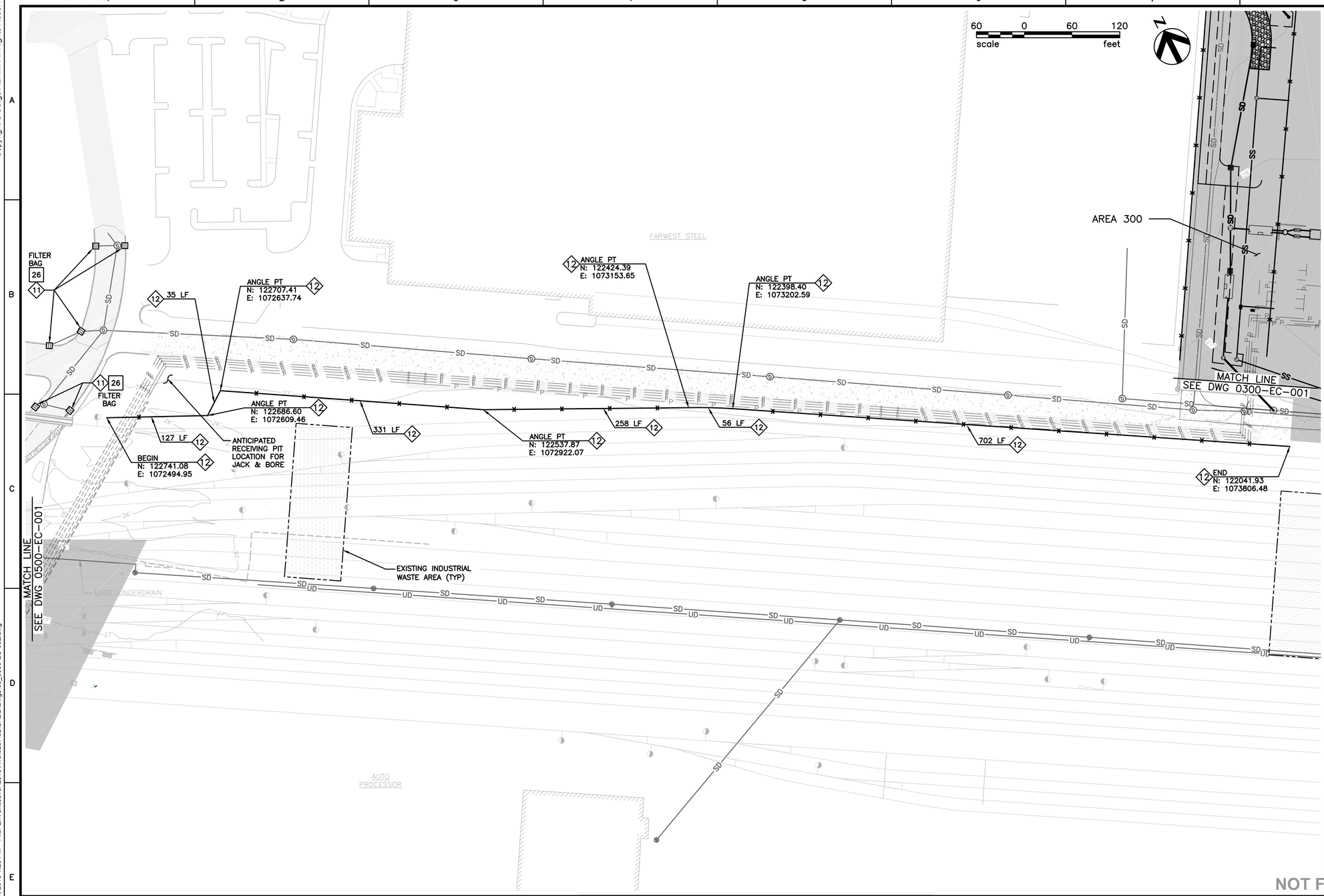


GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

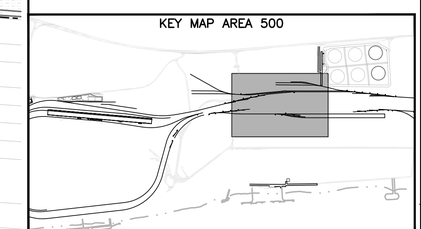
11 INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.

12 INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-EC-003.

DRAINAGE NOTES:

26 RETROFIT SPILL TRAP WITHIN EXISTING INLET PER DETAIL 4 ON DRAWING 0100-CD-006.

KEY MAP AREA 500



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SAM ADAMS STATE OF WASHINGTON 47330 REGISTERED PROFESSIONAL ENGINEER
PRELIMINARY

NO.	DATE	REVISION	BY	CK'D	APP

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VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: ENVIRONMENTAL CONTROL PLAN – TRANSFER PIPELINE AREA – 2

DESIGN:	DRS	START DATE:	2/17/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/23/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER	SHEET	REV.
0500-EC-002	1/1	

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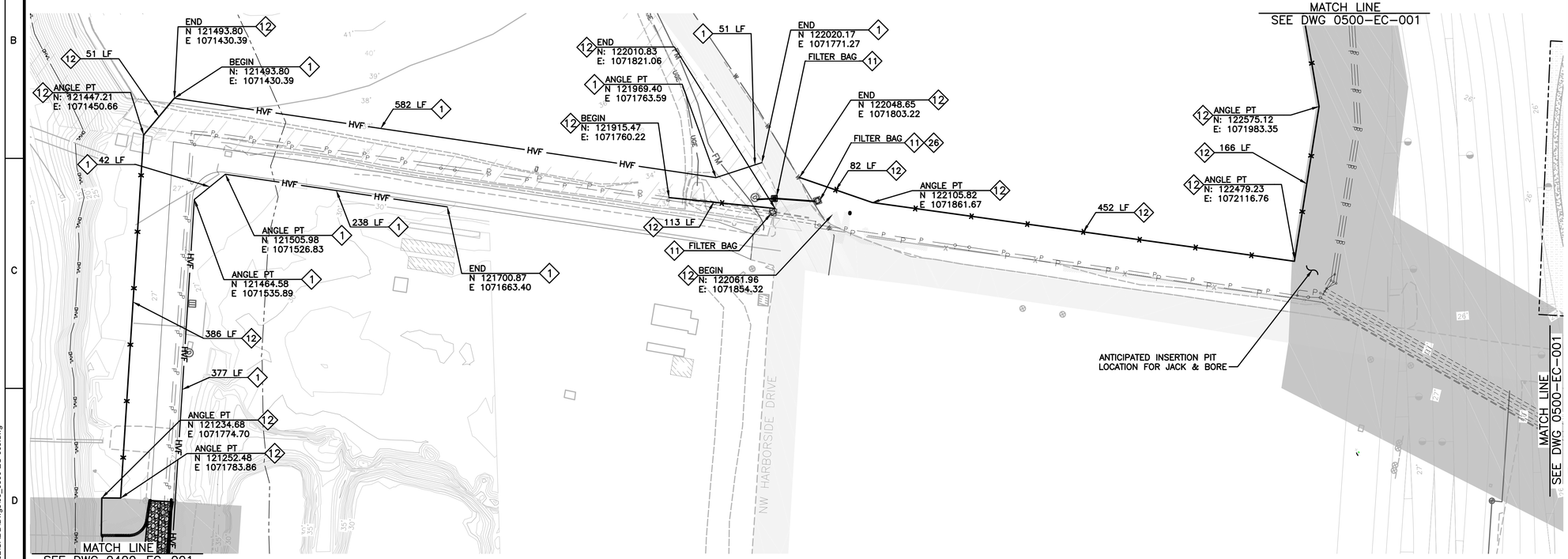


GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

1 INSTALL HIGH VISIBILITY FENCING. SEE DETAIL 1 ON DWG 0100-EC-001.

11 INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.

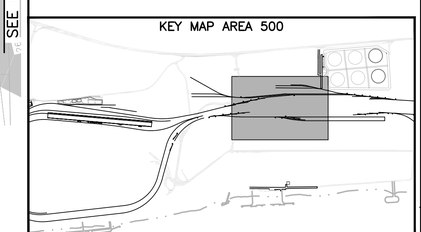
12 INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-EC-003.

13 INSTALL COMPOST SOCK IN ACCORDANCE WITH DETAIL 4 ON DRAWING 0100-EC-003

DRAINAGE NOTES:

26 RETROFIT SPILL TRAP WITHIN EXISTING INLET PER DETAIL 4 ON DRAWING 0100-CD-006.

KEY MAP AREA 500



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NO.	DATE	REVISION	BY	CK'D	APP

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

VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: ENVIRONMENTAL CONTROL PLAN – TRANSFER PIPELINE AREA – 3

DESIGN:	DRS	START DATE:	2/24/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/24/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36
DRAWING NUMBER				SHEET	REV.
0500-EC-003				1/1	

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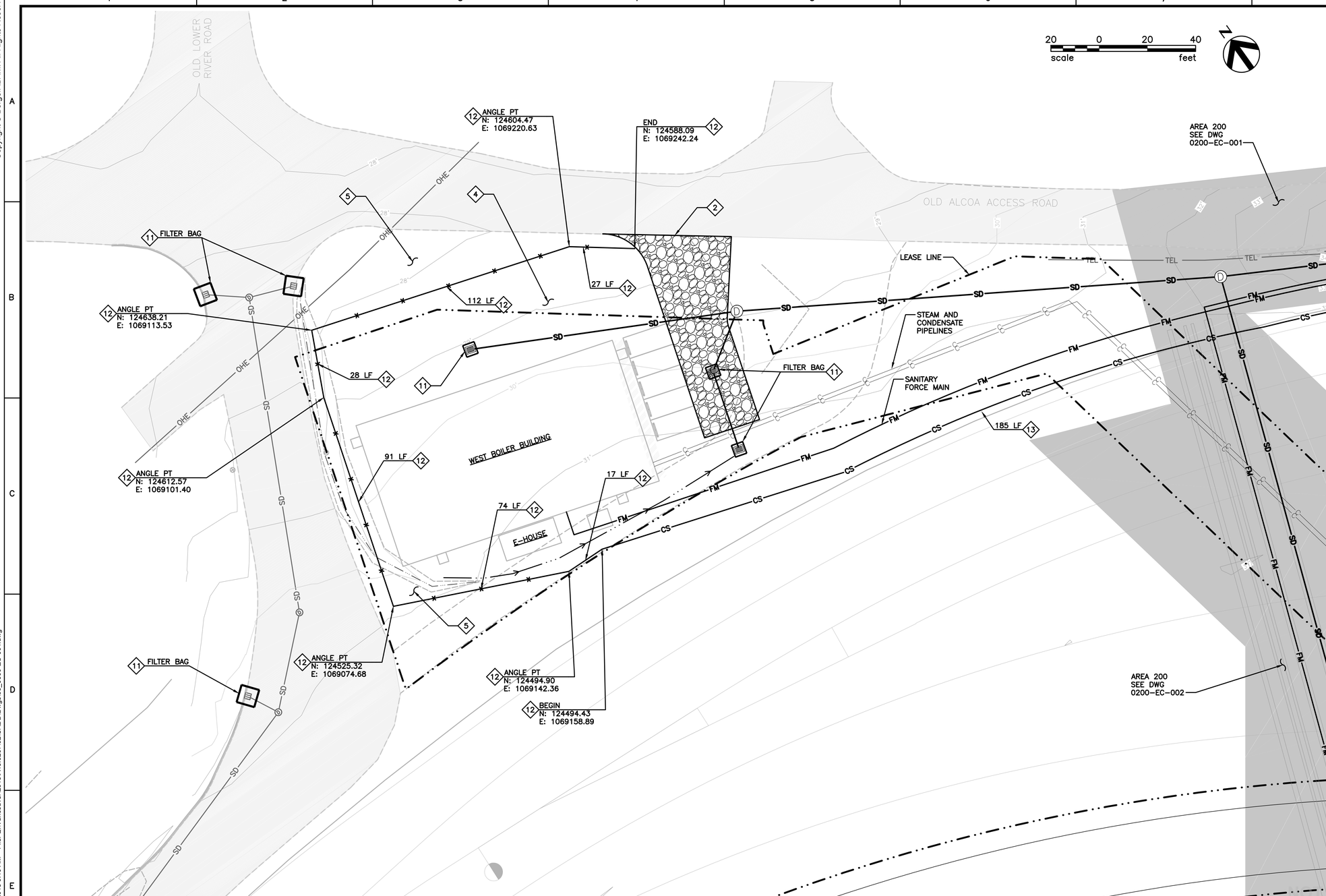

GENERAL NOTES:

1. SEE LEGEND ON SHEET 0100-EC-001 FOR SPECIFIC EROSION PREVENTION, SEDIMENT CONTROL, AND CONSTRUCTION STORMWATER RELATED SYMBOLOGY. SEE LEGEND ON SHEET 0100-CD-001 FOR EXISTING AND PROPOSED SITE DEVELOPMENT FEATURES.
2. LAYOUT OF PROPOSED ENVIRONMENTAL CONTROL ELEMENTS IS SCHEMATIC, ACTUAL LOCATIONS AND CONFIGURATIONS MAY VARY. CONTRACTOR SHALL REVIEW ALL PERMIT DOCUMENTS, CONDITIONS OF APPROVAL, AND APPLICABLE SITE SPECIFIC STORMWATER POLLUTION CONTROL PLANS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONSTRUCT ALL ENVIRONMENTAL CONTROL ELEMENTS IN ACCORDANCE WITH DOCUMENT PERMIT REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ENVIRONMENTAL CONTROLS IN-PLACE DURING CONSTRUCTION ARE SUFFICIENT TO MEET PERMIT REQUIREMENTS AND ARE MAINTAINED AT ALL TIMES. ENVIRONMENTAL CONTROL PLANS ASSUME WET SEASON CONSTRUCTION. CONTRACTOR MAY NEED TO SUPPLEMENT CONTROLS AS NECESSARY TO MEET PERMITTED CONDITIONS.
4. STOCKPILED MATERIAL SHALL BE COVERED WITH PLASTIC COVERING TO THE MAXIMUM EXTENT PRACTICAL DURING WET-WEATHER SEASON. STOCKPILED MATERIAL NOT USED FOR 3 DAYS DURING DRY SEASON SHALL BE COVERED. WHERE FORECAST CALLS FOR RAIN AND/OR HIGH WINDS DURING DRY SEASON INSTALL PLASTIC COVERING ON STOCKPILED MATERIAL. SEE DETAIL 3 ON DWG 0100-EC-002.
5. PROVIDE MATERIAL, STORAGE AND CONTAINMENT BMPs FOR LIQUIDS AND HAZARDOUS MATERIAL. SEE DETAIL 5 ON DWG 0100-EC-002.
6. DURING TRENCHING AND DEEP EXCAVATIONS WHERE GROUNDWATER IS ENCOUNTERED AND EXCAVATION DEWATERING OCCURS, CONTRACTOR SHALL PROVIDE DEWATERING PUMPS AND ON-SITE STORAGE TANKS. CONTRACTOR SHALL TEST ALL DEWATERING WATER IN ACCORDANCE WITH MONITORING REQUIREMENTS ON DWG 0100-EC-001. CONTRACTOR SHALL HAUL OFF AND LEGALLY DISPOSE OF CONTAMINATED EXCAVATION DEWATERING WATER OR PROVIDE TREATMENT FOR DEWATERING WATER IF NECESSARY PRIOR TO RELEASE TO STORM DRAIN.

ENVIRONMENTAL CONTROL NOTES:

2. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT. SEE DETAIL 2 ON DWG 0100-EC-001.
4. CONSTRUCT PARKING AREA STABILIZATION ON-SITE IN LAYDOWN, STAGING, AND CONSTRUCTION PERSONNEL PARKING AREAS. SEE DETAIL 1 ON DWG 0100-EC-002.
5. INSTALL TEMPORARY AND PERMANENT SEEDING IMMEDIATELY FOLLOWING FINAL GRADING. SEE DETAIL 2 ON DWG 0100-EC-002.
7. CONCRETE WASHOUT IS LOCATED IN AREA 300. SEE DWG 0300-EC-001 AND 0300-EC-002 FOR LOCATION. OR INSTALL CONCRETE WASHOUT AREA IN ACCORDANCE WITH DETAIL 6 ON DRAWING 0100-EC-002.
11. INSTALL INLET PROTECTION (TYPE AS NOTED) AT ALL EXISTING INLETS PRIOR TO BEGINNING CONSTRUCTION. INSTALL INLET PROTECTION AT ALL NEWLY CONSTRUCTED FACILITIES IMMEDIATELY UPON INSTALLATION. SEE DETAIL 2 ON DWG 0100-EC-003.
12. INSTALL SILT FENCE. SEE DETAIL 3 ON DWG 0100-EC-003.
13. INSTALL COMPOST SOCK IN ACCORDANCE WITH DETAIL 4 ON DRAWING 0100-EC-003 DURING TRENCHING AND CONSTRUCTION OF FORCE MAIN AND PIPELINES.

SAM ADAMS
STATE OF WASHINGTON
27330
REGISTERED
PROFESSIONAL ENGINEER

PERMIT SET
NOT FOR CONSTRUCTION

NO.	DATE	REVISION	BY	CK'D	APP

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VANCOUVER ENERGY
Tesoro Savage Petroleum Terminal LLC

PROJECT: VANCOUVER ENERGY
PORT OF VANCOUVER, WASHINGTON

DESCRIPTION: AREA 600
ENVIRONMENTAL CONTROL PLAN

DESIGN:	DRS	START DATE:	2/23/2015	SCALE:	AS SHOWN
DRAWN:	TNP	PRINT DATE:	2/24/2015	PROJECT MANAGER:	SAVAGE_PM
CHECKED:	MCH	APPROVED:	SA	SIZE:	24X36

DRAWING NUMBER: 0600-EC-001 | SHEET: 1/1 | REV.:

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