CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER

FOR

RIVERBEND LANDFILL
McMINNVILLE, OREGON

JULY 2009

PREPARED FOR

WASTE MANAGEMENT

13464 HIGHWAY 18
McMINNVILLE, OREGON 97128

PREPARED BY

VISTA CONSULTANTS, LLC

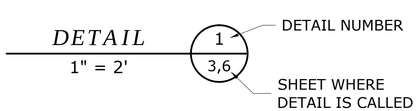
4132 SW BARBUR BLVD
PORTLAND, OREGON 97239
(503) 922-2522

E.I.L., LLC

534 DUANE STREET
GLEN ELLYN, IL 60137
(630) 942-0635

DETAIL INDICATOR:

SHEET WHERE DETAIL IS SHOWN:



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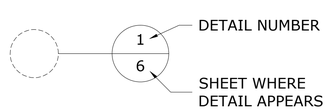

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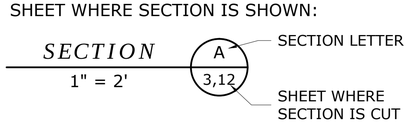

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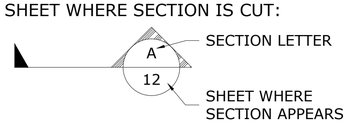
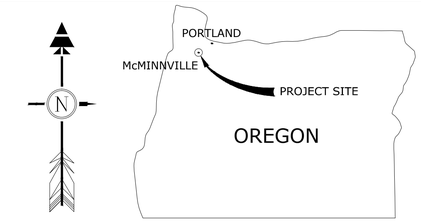
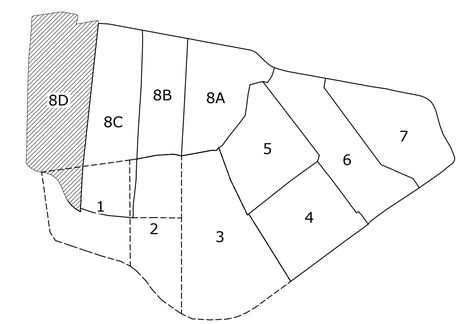


ABBREVIATIONS:

AC	ACRES
BLDG	BUILDING
℄	CENTERLINE
CO	CLEANOUT
DIA or Ø	DIAMETER
DWG	DRAWING
E	EAST
ELE	ELEVATION
FT	FEET
H OR h	HEIGHT
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
HP	HIGH POINT
ID	INSIDE DIAMETER
I.E.	INVERT ELEVATION
L	LENGTH
LF	LINEAR FEET
LCRS	LEACHATE COLLECTION AND REMOVAL SYSTEM
LDS	LEAK DETECTION SYSTEM
MIN.	MINIMUM
N	NORTH
OD	OUTSIDE DIAMETER
ℙ	PROPERTY LINE
S	SLOPE IN FEET/FOOT
SDR	STANDARD DIMENSION RATIO
TYP	TYPICAL
X	EXISTING



REGIONAL MAP

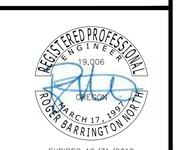


SITE MAP

SHEET LIST TABLE

Sheet #	Sheet Title
1	TITLE PAGE
2	SITE PLAN
3	SUBGRADE PLAN
4	OPERATIONS PLAN
5	SECTIONS A-C & DETAILS 1-3
6	SECTIONS D-F
7	SECTIONS G-I
8	SECTIONS J-N & DETAIL 4
9	CONSTRUCTION STORMWATER PERMIT 1200C NPDES, GENERAL NOTES
10	CONSTRUCTION STORMWATER PERMIT 1200 C NPDES, EROSION AND SEDIMENT CONTROL PLAN

APPROVED:



ENGINEER OF RECORD - ROGER B. NORTH P.E. DATE

EXISTING GRADE TOPOGRAPHICAL DATA FROM 4-26-08 DRAWING FILE ENTITLED, "Riverbend_4-26-08Local.dwg"

REGISTERED PROFESSIONAL ENGINEER
19,006
OREGON
MARCH 17, 1995
ROGER BARRINGTON NORTH
EXPIRES 12/31/2010

REDUCTION SCALE CHECK
SCALE = 1"

PROJECT # 090304

VISTA CONSULTANTS, LLC
4132 SW BARBUR BLVD.
PORTLAND, OREGON 97239
(503) 922-2522

ENVIRONMENTAL INFORMATION LOGISTICS LLC

REV	DATE	REVISION DESCRIPTION	DES	DRN	APP
1	07/9/09	ISSUED FOR CONST.	RN	STM	RN

SCALE:
1" = 150'

DATE: 7/9/2009

WASTE MANAGEMENT

CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER
RIVERBEND LANDFILL
MCMINNVILLE, OREGON

SITE PLAN

DRAWING NO.
2 OF 10

C:\CIVIL 3D PROJECTS\RIVERBEND\KPM\EXTERNAL REFERENCES\DWG\2 SITE PLAN.DWG PLOTTED: 7/9/2009 5:31 PM ON ANSI FULL BLEED D (22.00 X 34.00 INCHES)

EXISTING GRADE TOPOGRAPHICAL DATA FROM 4-26-08 DRAWING FILE ENTITLED, "Riverbend_4-26-08Local.dwg"

SURVEYED HORIZONTAL LOCATION OF 10" PVC IRRIGATION PIPE

SURVEYED PAVEMENT EDGE

SWEEP CORNER TO AVOID ANGLE IN PIPE

FIELD VERIFIED EXISTING 10" RISER

FIELD VERIFIED EXISTING 10" RISER

PHASE 4 OVERLINER

PHASE 4-MOD 8 TRANS

LFG COLLECTOR BELOW OVERLINER

EXISTING PHASE 3 OVERLINER

TRANSISTION FROM PHASE 3 TO 4

20' TRANSITION FROM 8D TO 8C

PROPERTY LINE

GRAPHICAL SCALE 0 50' 100'

REGISTERED PROFESSIONAL ENGINEER 19,006 OREGON MARCH 17, 1992 ROGER BARRINGTON NORTH EXPIRES 12/31/2010

REDUCTION SCALE CHECK SCALE = 1"

PROJECT # 090304

VISTA CONSULTANTS, LLC
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PORTLAND, OREGON 97239
(503) 922-2522

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REV	DATE	REVISION DESCRIPTION	DES	DRN	APP
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SCALE: 1" = 50'

DATE: 7/9/2009

WASTE MANAGEMENT

CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER
RIVERBEND LANDFILL
MCMINNVILLE, OREGON

SUBGRADE PLAN

DRAWING NO. 3 OF 10

C:\CIVIL 3D PROJECTS\RIVERBEND\KPM\EXTERNAL REFERENCES\DWG\3 SUBGRADE PLAN.DWG PLOTTED: 7/9/2009 5:32 PM ON ANSI FULL BLEED D (22.00 X 34.00 INCHES)

EXISTING GRADE TOPOGRAPHICAL DATA FROM 4-26-08 DRAWING FILE ENTITLED, "Riverbend_4-26-08Local.dwg"

SURVEYED HORIZONTAL LOCATION OF 10" PVC IRRIGATION PIPE

SURVEYED PAVEMENT EDGE

LIMIT OF PRIMARY GEOMEMBRANE

POND BOTTOM 144.0'

50' MIN FROM PRIMARY GEOMEMBRANE EDGE

FIELD VERIFIED EXISTING 10" RISER

POND BOTTOM 145.0'

FIELD VERIFIED EXISTING 10" RISER

PHASE 4 OVERLINER

APPROX. PHASE 4-MOD 8 TRANS

10' ROCK WINDOW LOCATED IN OPERATION LAYER. LOCATIONS SUBJECT TO FIELD CHANGES.

EXISTING PHASE 3 OVERLINER

TRANSISTION FROM PHASE 3 TO 4

20' TRANSITION FROM 8D TO 8C

PROPERTY LINES

GRAPHICAL SCALE 0 50' 100'

REGISTERED PROFESSIONAL ENGINEER 19,006 OREGON MARCH 17, 1992 ROGER BARRINGTON NORTH

EXPIRES 12/31/2010

REDUCTION SCALE CHECK SCALE = 1"

PROJECT # 090304

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SCALE: 1" = 50'

DATE: 7/9/2009

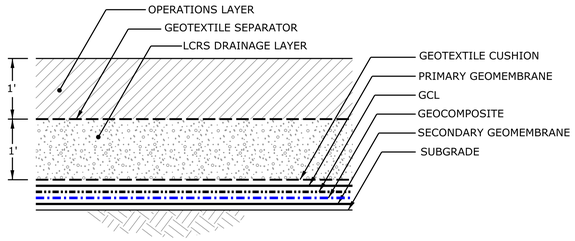
WASTE MANAGEMENT

CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER
RIVERBEND LANDFILL
MCMINNVILLE, OREGON

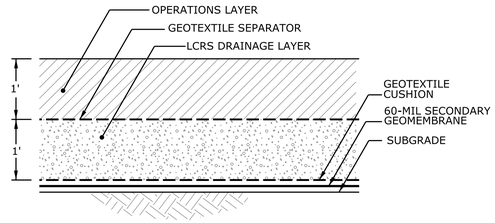
OPERATIONS PLAN

DRAWING NO. 4 OF 10

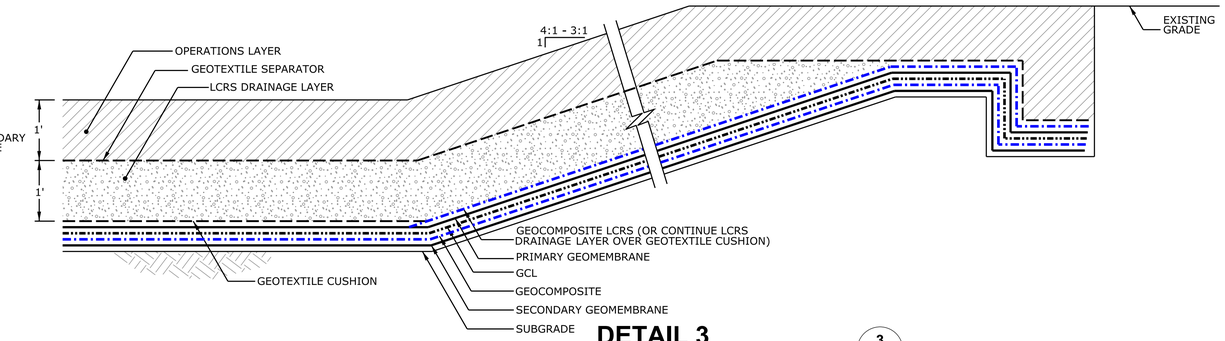
C:\CIVIL 3D PROJECTS\RIVERBEND\KPM\EXTERNAL REFERENCES\DWG\4 OPERATIONS PLAN.DWG PLOTTED: 7/9/2009 5:33 PM ON ANSI FULL BLEED D (22.00 X 34.00 INCHES)



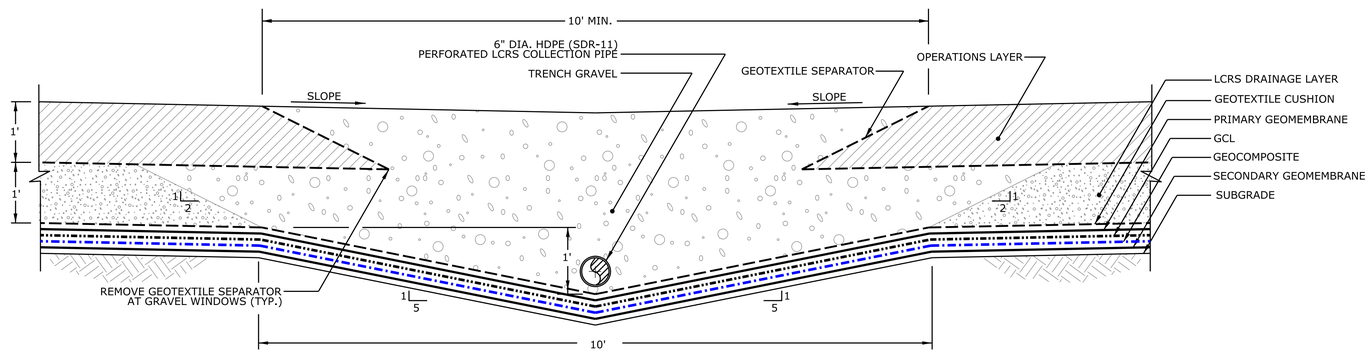
DETAIL 1
COMPOSITE LINER AND LCRS (1 / 3, 4)



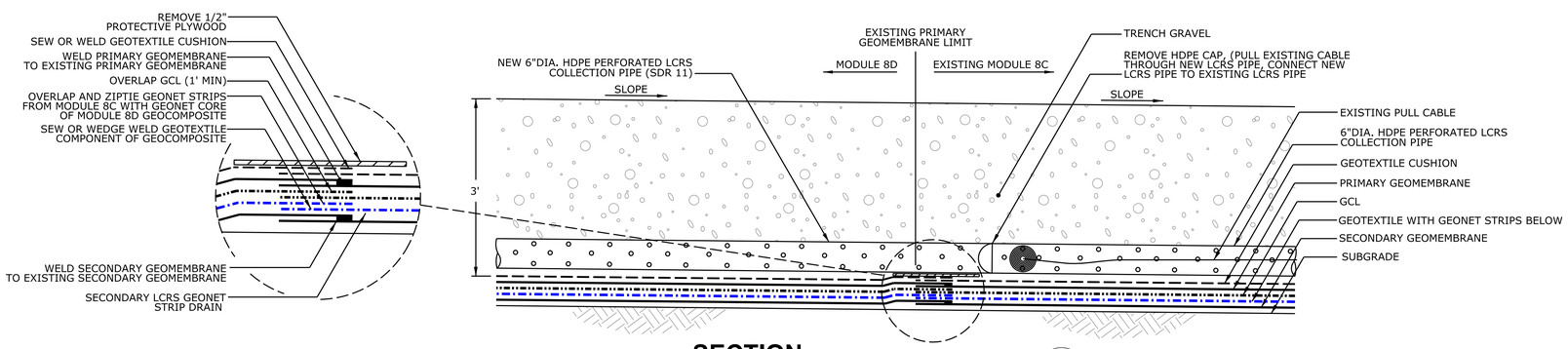
DETAIL 2
OVERLINER AND LCRS (2 / 3, 4)



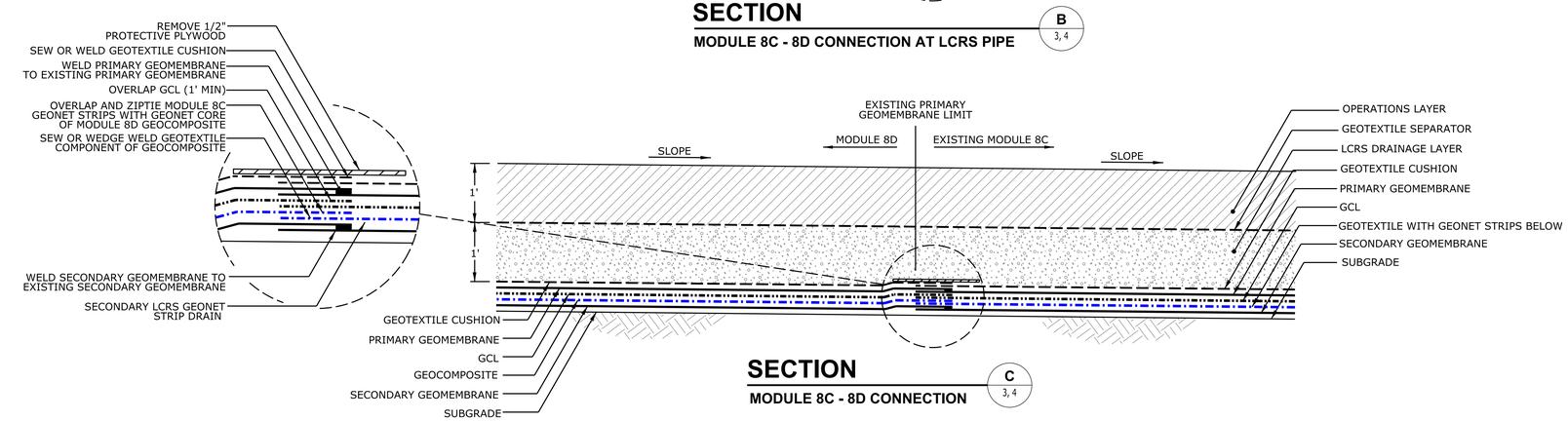
DETAIL 3
8C - 8D SIDESLOPE TRANSITION (3 / 3, 4)



SECTION
LEACHATE COLLECTION TRENCH (A / 3, 4)



SECTION
MODULE 8C - 8D CONNECTION AT LCRS PIPE (B / 3, 4)



SECTION
MODULE 8C - 8D CONNECTION (C / 3, 4)

NOTES

A. THESE NOTES PROVIDE A CONSTRUCTION SEQUENCE TO CONNECT THE MODULE 8D LINER SYSTEM TO THE EXISTING MODULE 8C LINER SYSTEM.

B. THESE NOTES ARE BASED ON ASSUMPTIONS ABOUT THE WAY MODULE 8C WAS CONSTRUCTED AND HAS BEEN OPERATED. THEREFORE, MODIFICATIONS MAY BE REQUIRED IF ACTUAL CONDITIONS DIFFER FROM THOSE ASSUMED.

C. SEQUENCE.

1. REMOVE LOW PERMEABILITY SOIL FROM WEST SIDE OF MODULE 8C.
2. REMOVE OPERATIONS LAYER ALONG EDGE OF MODULE 8D TO EXPOSE PROTECTIVE PLYWOOD OVER GEOTEXTILE SEPARATOR.
3. FOLD BACK GEOTEXTILE SEPARATOR.
4. REMOVE FROM MODULE 8C SUFFICIENT LCRS DRAINAGE LAYER MATERIAL TO EXPOSE PROTECTIVE PLYWOOD OVER GEOTEXTILE CUSHION AND GEOMEMBRANE.
5. FOLD BACK MODULE 8C GEOTEXTILE CUSHION.
6. LIFT UP, BUT DO NOT FOLD OVER, MODULE 8C PRIMARY GEOMEMBRANE, GCL, AND LEAK DETECTION SYSTEM GEOTEXTILE AND GEONET MATERIALS TO EXPOSE MODULE 8C SECONDARY GEOMEMBRANE.
7. DEPLOY MODULE 8D SECONDARY GEOMEMBRANE, SHINGLE OVER MODULE 8C SECONDARY GEOMEMBRANE, AND WELD TOGETHER.
8. DEPLOY MODULE 8D GEOCOMPOSITE. ZIPTIE THE GEOCOMPOSITE GEONET CORE TO THE MODULE 8C GEONET STRIPS AND SEW OR WEDGE WELD THE GEOCOMPOSITE UPPER GEOTEXTILE TO THE MODULE 8C GEOTEXTILE.
9. DEPLOY MODULE 8D GCL TO OVERLAP A MINIMUM OF 1 FOOT OVER MODULE 8C GCL.
10. DEPLOY MODULE 8D PRIMARY GEOMEMBRANE, SHINGLE OVER MODULE 8C PRIMARY GEOMEMBRANE AND WELD TOGETHER.
11. DEPLOY MODULE 8D CUSHION GEOTEXTILE AND SEW OR WEDGE WELD TO MODULE 8C CUSHION GEOTEXTILE.
12. PLACE MODULE 8D LCRS DRAINAGE LAYER (OR TRENCH GRAVEL AND COLLECTION PIPES WHERE APPROPRIATE) TO CREATE CONTIGUOUS CONNECTION WITH MODULE 8C MATERIALS.
13. DEPLOY MODULE 8D SEPARATOR GEOTEXTILE AND SEW OR WEDGE WELD TO MODULE 8C SEPARATOR GEOTEXTILE.
14. PLACE MODULE 8D OPERATIONS LAYER MATERIALS TO CREATE CONTIGUOUS LAYER WITH MODULE 8C MATERIALS.

GENERAL NOTES

1. VERTICAL REPRESENTATION OF THE LANDFILL BASE LINER IS EXAGGERATED DUE TO THE GRAPHICAL REPRESENTATION OF THE SYNTHETIC LINING COMPONENTS.

REGISTERED PROFESSIONAL ENGINEER 19,006 OREGON MARCH 17, 1993 JOHN F. DARRINGTON NORTH
EXPIRES 12/31/2010

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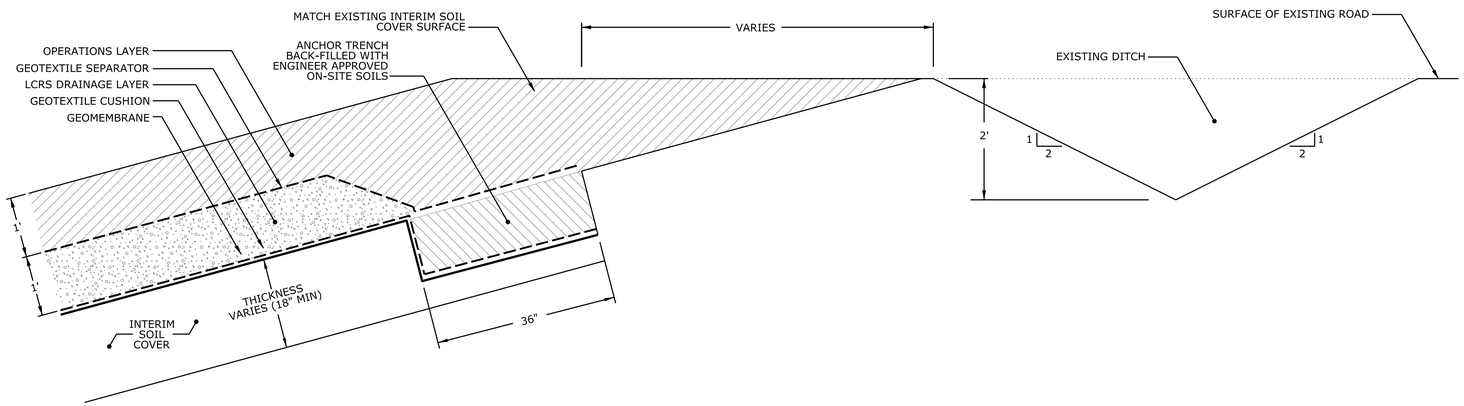
WASTE MANAGEMENT

CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER
MCMINNVILLE, OREGON
RIVERBEND LANDFILL

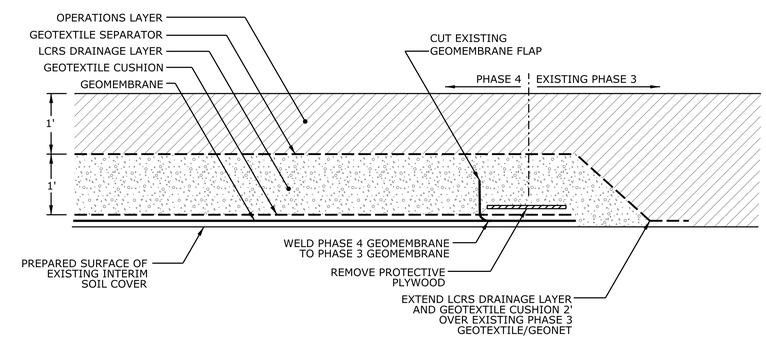
SECTIONS AND DETAILS

DRAWING NO. 5 OF 10



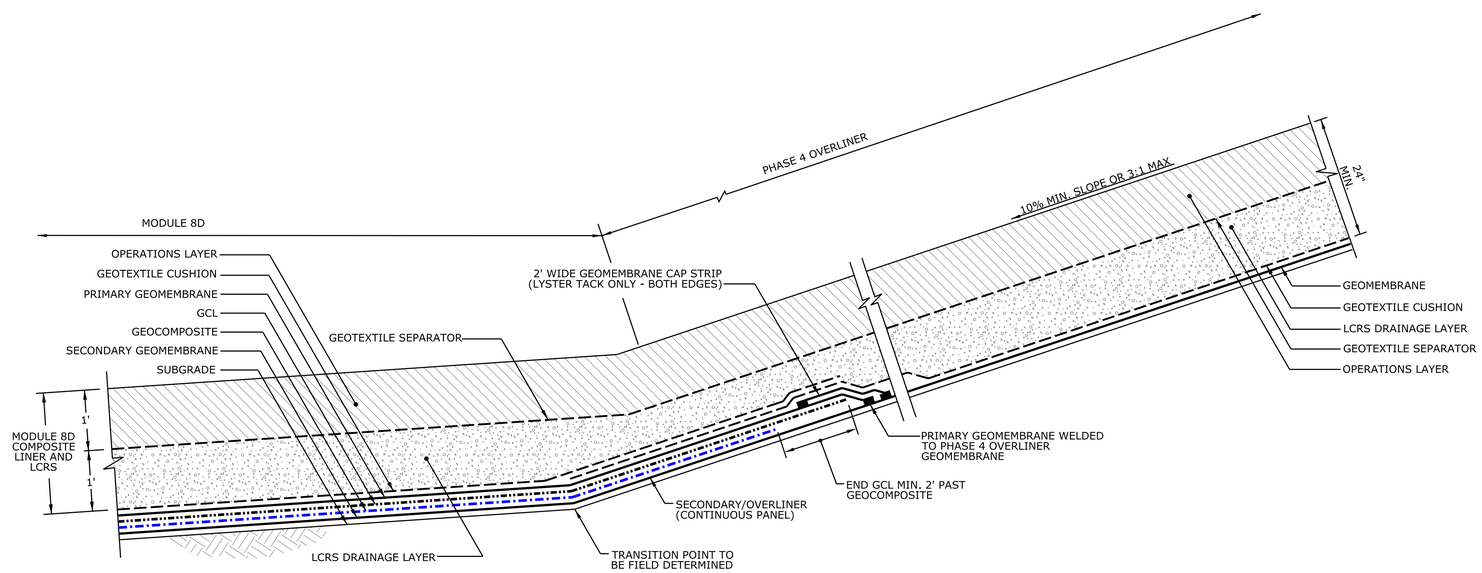
SECTION D 3, 4

SOUTH PHASE 4 OVERLINER TERMINATION



SECTION E 3, 4

PHASE 3 - PHASE 4 CONNECTION



SECTION F 3, 4

MODULE 8D TRANSITION TO PHASE 4 OVERLINER

GENERAL NOTES

1. VERTICAL REPRESENTATION OF THE LANDFILL BASE LINER IS EXAGGERATED DUE TO THE GRAPHICAL REPRESENTATION OF THE SYNTHETIC LINING COMPONENTS.

REGISTERED PROFESSIONAL ENGINEER 19,006 OREGON MARCH 17, 1997 ROGER BARRINGTON NORTH

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-	-	-	-	-	-

DATE: 7/9/2009

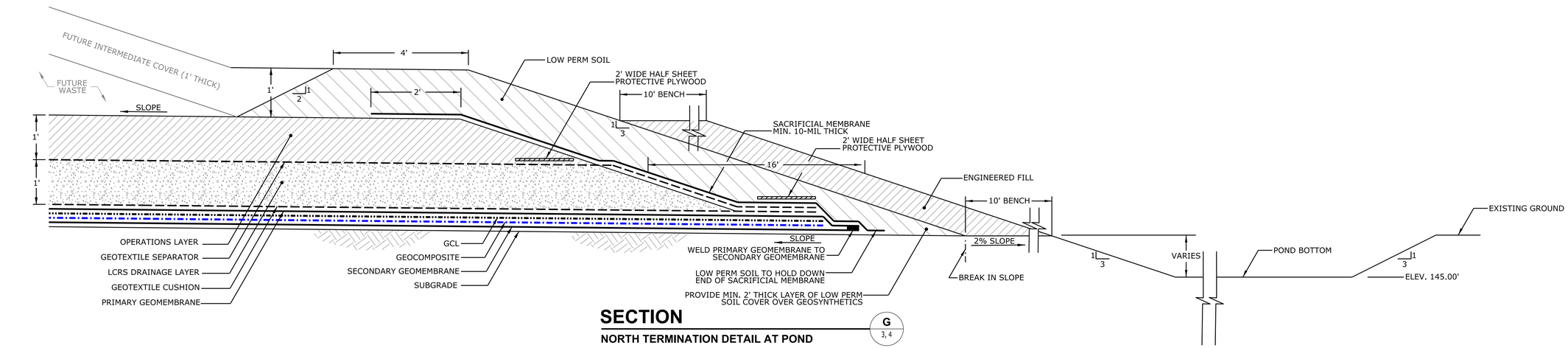
WASTE MANAGEMENT

CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER

MCMINNVILLE, OREGON
RIVERBEND LANDFILL

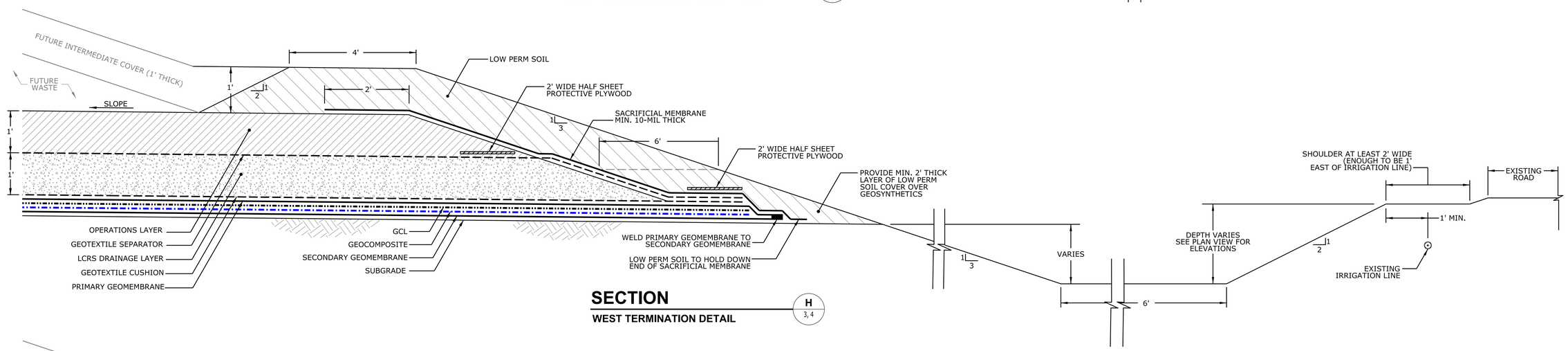
SECTIONS AND DETAILS

DRAWING NO.
6
OF 10



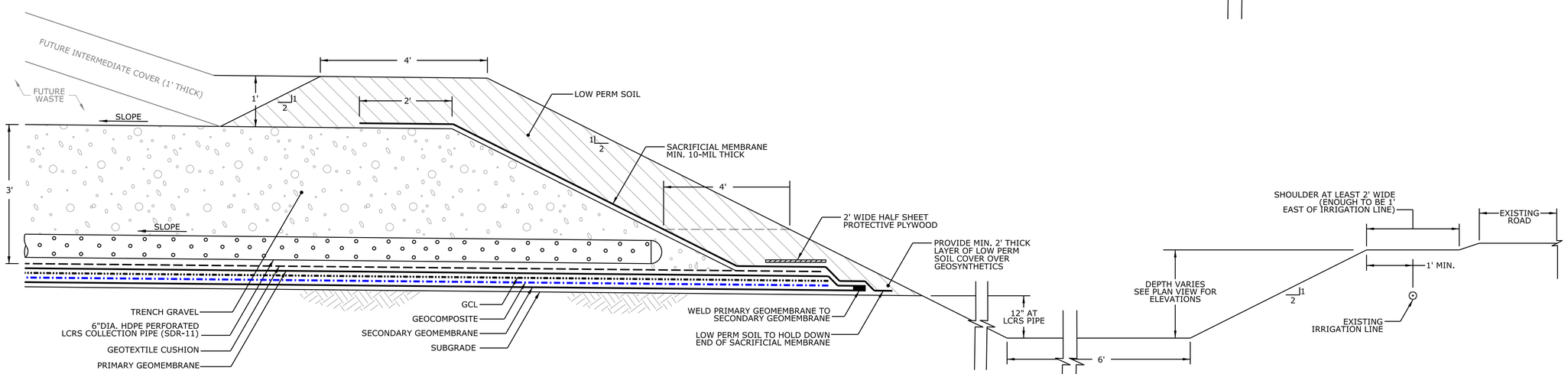
SECTION G 3, 4

NORTH TERMINATION DETAIL AT POND



SECTION H 3, 4

WEST TERMINATION DETAIL



SECTION I 3, 4

WEST TERMINATION DETAIL AT SOUTH END LCRS PIPES

GENERAL NOTES

1. VERTICAL REPRESENTATION OF THE LANDFILL BASE LINER IS EXAGGERATED DUE TO THE GRAPHICAL REPRESENTATION OF THE SYNTHETIC LINING COMPONENTS.

REGISTERED PROFESSIONAL ENGINEER 19,006 OREGON MARCH 17, 1993 JOHN F. BARRINGTON NORTH

EXPIRES 12/31/2010

VISTA CONSULTANTS, LLC
4132 SW BARBUR BLVD.
PORTLAND, OREGON 97239
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EIL ENVIRONMENTAL INFORMATION LOGISTICS LLC

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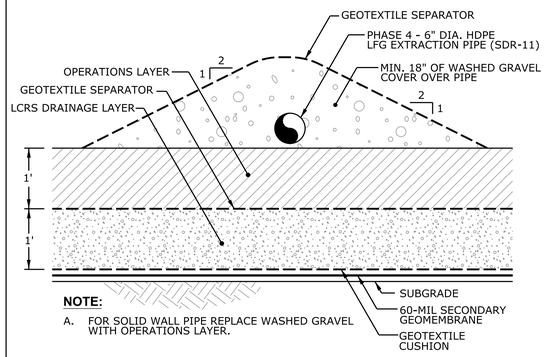
WASTE MANAGEMENT

CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER
MCMINNVILLE, OREGON
RIVERBEND LANDFILL

SECTIONS AND DETAILS

DRAWING NO.
7
OF 10

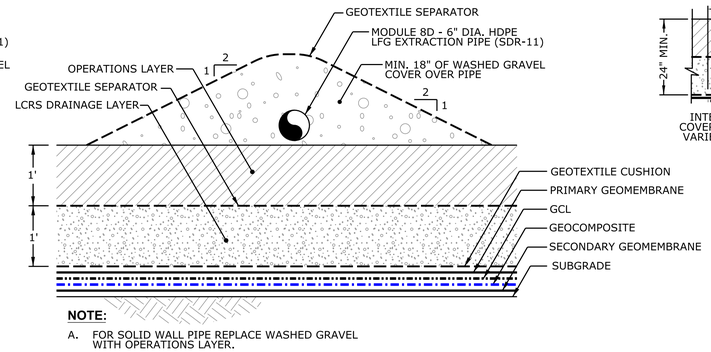


NOTE:

A. FOR SOLID WALL PIPE REPLACE WASHED GRAVEL WITH OPERATIONS LAYER.

SECTION

PERFORATED GAS EXTRACTION PIPE OVER OVERLINER (J / 8)

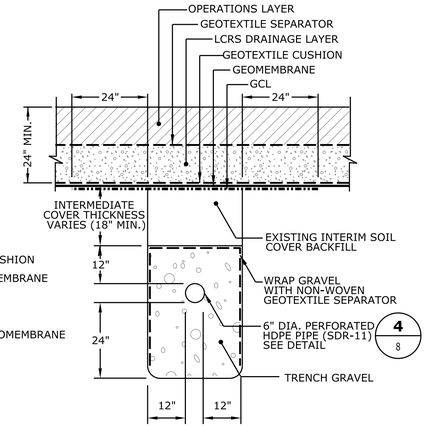


NOTE:

A. FOR SOLID WALL PIPE REPLACE WASHED GRAVEL WITH OPERATIONS LAYER.

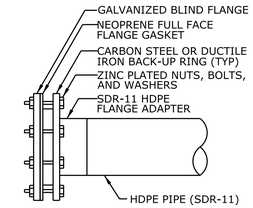
SECTION

PERFORATED GAS EXTRACTION PIPE OVER MODULE 8D (K / 8)



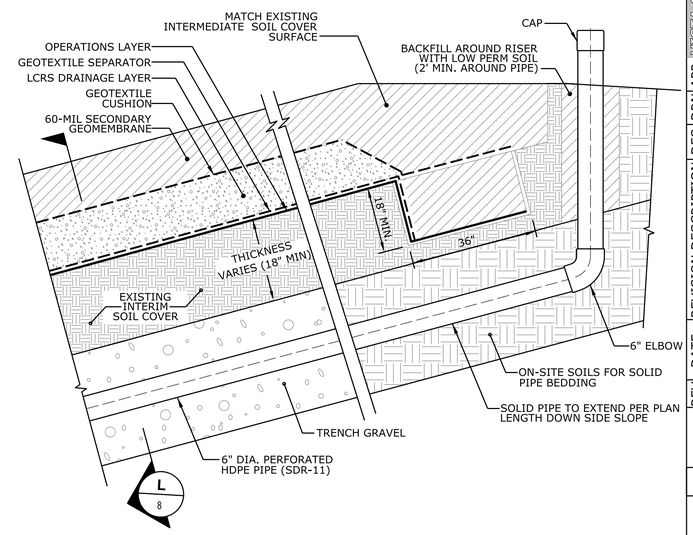
SECTION

HORIZONTAL LFG COLLECTORS (L / 8)



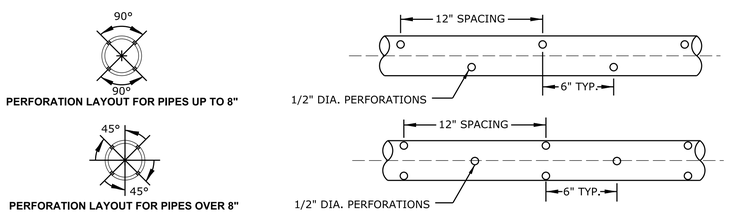
DETAIL

BLIND FLANGE (5 / 8)



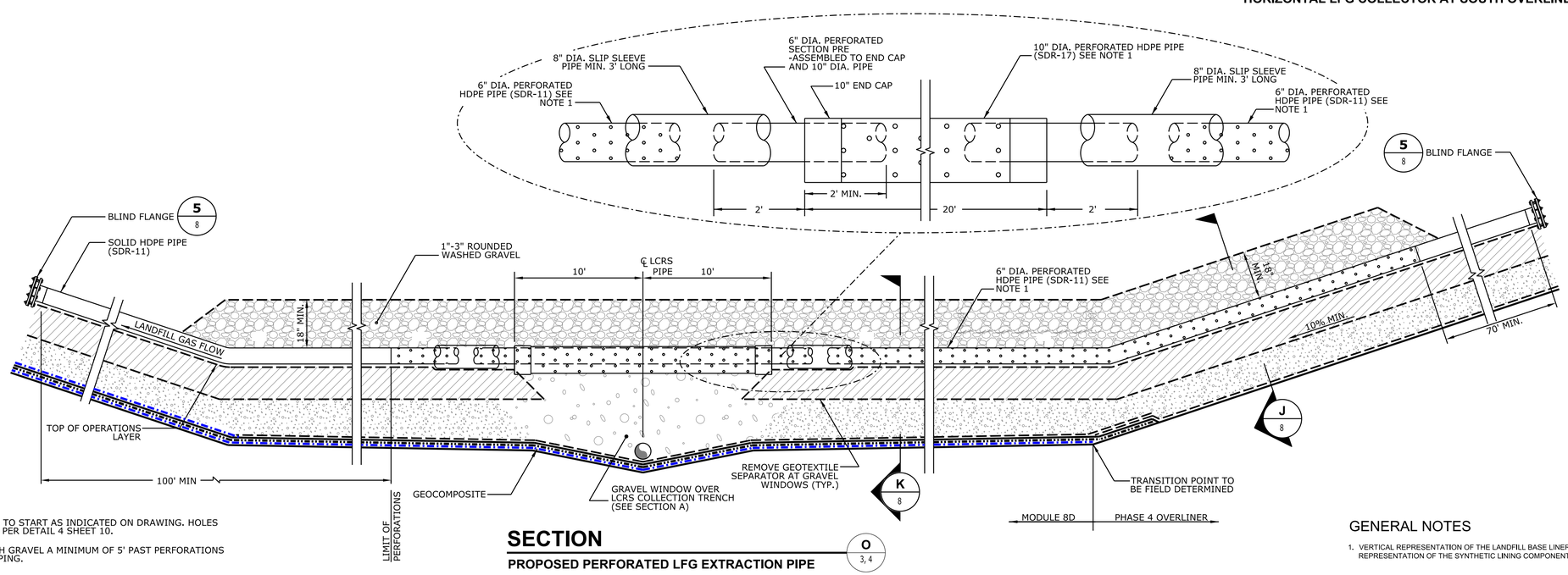
SECTION

HORIZONTAL LFG COLLECTOR AT SOUTH OVERLINER TERMINATION (N / 3, 4)



DETAIL

PIPE PERFORATION PATTERNS (4 / 5, 7, 8)



NOTES:

A. PERFORATIONS TO START AS INDICATED ON DRAWING. HOLES TO BE DRILLED PER DETAIL 4 SHEET 10.

B. EXTEND TRENCH GRAVEL A MINIMUM OF 5' PAST PERFORATIONS OVER SOLID PIPING.

SECTION

PROPOSED PERFORATED LFG EXTRACTION PIPE (O / 3, 4)

GENERAL NOTES

1. VERTICAL REPRESENTATION OF THE LANDFILL BASE LINER IS EXAGGERATED DUE TO THE GRAPHICAL REPRESENTATION OF THE SYNTHETIC LINING COMPONENTS.

REGISTERED PROFESSIONAL ENGINEER 19,006 OREGON MARCH 17, 1993 RANDALL P. HARRINGTON NORTH

EXPIRES 12/31/2010

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WASTE MANAGEMENT

CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER

MCMINNVILLE, OREGON
RIVERBEND LANDFILL

SECTIONS AND DETAILS

DRAWING NO.

8 OF 10

DEVELOPER:

WASTE MANAGEMENT, INC
CONTACT: GEORGE DUVENDACK (DISTRICT MANAGER)
OR MARK REEVES (DISTRICT ENGINEER)
13469 SW HWY 18 MC MINNVILLE, OREGON 97128
PH. 503.472.8788

ENGINEERING FIRM:

ENVIRONMENTAL INFORMATION LOGISTIC, LLC
CONTACT: MIKE STEWART (PROJECT MANAGER)
1406 12TH STREET - SUITE 104, OREGON 97031
PH. 541.386.6480
PH. 425.478.2628

NARRATIVE SITE DESCRIPTION:

CONSTRUCTION ACTIVITIES THAT WILL BE CONDUCTED ON SITE ARE THOSE NECESSARY TO CONSTRUCT A 10-ACRE LINED LANDFILL MODULE. ON-SITE SOILS THAT WILL BE DISTURBED AND OR MOVED DURING THE PROJECT ARE GENERALLY SILT AND SILTY CLAY. EARTHWORK ACTIVITIES WILL INCLUDE:

- STRIPPING OF GRASS AND TREE ROOTS FROM CELL 8D AREA, AND HAULING OF THE GRASS STRIPPINGS AND ROOTS TO THE ACTIVE LANDFILL AREA, OR THE STOCK PILE AREA;
- EXCAVATION, LOAD, HAUL AND PLACEMENT OF APPROXIMATELY 16,000 CY OF SOILS FROM MODULE 8D AREA TO TEMPORARY STOCKPILE AREA;
- EXCAVATION, LOAD, HAUL AND PLACEMENT OF APPROXIMATELY 5,000 CY OF SOIL WITHIN THE BOUNDARY OF CELL 8D AREA,
- EXCAVATION, LOAD, HAUL AND PLACEMENT OF APPROXIMATELY 15,000 CY OF SOIL FROM STOCKPILE AREA #1, AND STOCKPILE AREA #2 TO CELL 8D AREA; AND
- LOAD, HAUL AND PLACEMENT OF APPROXIMATELY 16,000 CY OF SOIL FROM THE TEMPORARY STOCKPILE AREA TO THE CELL 8D AREA.

GENERAL NOTES:

1. Hold a pre-construction meeting of project construction personnel that includes the inspector to discuss erosion and sediment control measures and construction limits. (Schedule A.5.b.i.(3))

2. The ESCP must be kept onsite and all erosion and sediment control measures shown on the plan must be installed in such a manner to ensure that sediment or sediment laden water that enters or is likely to enter surface waters or conveyance systems leading to surface water, roadway, or other properties does not occur. (Schedule A.3.a.) and (Schedule B.3.b.)

3. The implementation of the ESCP and construction, maintenance, replacement, and upgrading of the erosion and sediment control measures is the responsibility of the permit registrant until all construction is completed and approved by the local development agency and vegetation/landscaping is established. The permit registrant shall be responsible for maintenance until the 1200-C permit is terminated. (Schedule A.4.a.) and (Schedule D.3.)

4. The permit registrant must be responsible for proper installation and maintenance of all erosion and sediment control measures, in accordance with local, state or federal regulations. (Schedule A.5.a.) and (Schedule A.6.a.)

5. Erosion and sediment control measures including perimeter sediment control must be in place before vegetation is disturbed and must remain in place and be maintained, repaired, and promptly implemented following procedures established for the duration of construction, including protection for active storm drain inlets and catch basins and appropriate non-stormwater pollution controls. (Schedule A.5.b.ii.(2)), (Schedule A.5.b.ii.(7)), (Schedule A.7.d.i.(2)) & (Schedule A.7.f.)

6. Begin land clearing, excavating, trenching, cutting or grading and earthwork-surface roughing after installing applicable sediment, erosion prevention and runoff control measures not in the direct path of work. (Schedule A.5.b.ii.(5)(a)), (Schedule A.7.c.i.(1)), (Schedule A.7.c.ii.(1))

7. Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses and for all roadways including gravel roadways. (Schedule A.5.b.ii.(5).(b)), (Schedule A,5,b,ii,(5)(c) & (Schedule A.5.b.ii.(6)).

8. Wet Weather BMPs: Construction activities must avoid or minimize excavation or minimize excavation and creation of bare ground on slopes greater than five (5) percent from October 1 through May 31 each year. (Schedule A.7.a.i.)

9. Wet Weather BMPs: Temporary stabilization of the site must be installed at the end of the shift before a holiday or weekend or at the end of each workday if rainfall is forecast in the next 24 horus and each weekend and holiday. (Schedule A.7.a.ii.)

10. Identify, mark, and protect (by fencing off or other means) critical riparian areas and vegetation including important trees and associated rooting zones and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas. Preserve existing vegetation and revegetate open areas when practicable before and after grading or construction. (Schedule A..5.b.i.(1) & (2)) and (Schedule A.7.c.iii.(1))

11. Provide permanent erosion prevention measures on all exposed areas to prevent from becoming a source of erosion and remove all temporary control measures, unless local ordinances require otherwise, as areas are stabilized. (Schedule A.5.b.ii.(8)) and (Schedule A.7.c.ii.(2))

12. All temporary sediment controls must remain in place until permanent vegetation or other permanent covering of exposed soil is established. Identify the type of vegetative seed mix used. (Schedule A.7.c.iii.(3)) & (Schedule A.7.c.iii.(4))

13. Sediment controls must be installed and maintained along the site perimiter on all down gradient sides of the construction site and at all active and operational internal storm drain inlets at all times during construction. (Schedule A.7.d.i.(1)-(2))

14. Prior to any land disturbing activities each site must have graveled, paved or constructed entrances, exits and parking areas with extire tire wash to reduce the tracking of sediment onto public or private roads. (Schedule A.7.d.iii.(1))

15. When trucking saturated soils from the site, either watertight trucks must be used or loads must be drained on-site until dripping has been reduced to minimize spillage on roads (Schedule A.7.e.ii.(1)-(3))

16. Temporary stabilization or covering of soil stockpiles and protection of stockpiles located away from construction activity must occur at the end of each workday or other BMPs, such as diversion of uncontaminated flows and installation of sediment fences around stockpiles, must be implemented to prevent tubrid discharges to surface waters. (Schedule A.7.e.i.(1)) & (Schedule A.7.e.ii(1)-(3))

	ON DRAWING YES	ON DRAWING NO	CLEARING	MASS GRADING	PIPE INSTALLATION	WET WEATHER (OCT 1TH- MAY 31ST)
EROSION PREVENTION						
PRESERVE NATURAL VEGETATION		X	X			
DUST CONTROL		X	X	X	X	
OTHER:						
SEDIMENT CONTROL						
SEDIMENT FENCE	X		X	X	X	X
STRAW BALES	X		X	X	X	X
OTHER:						
RUNOFF CONTROLS						
CONSTRUCTION ENTRANCE	X		X	X	X	X
OTHER:						

RATIONALE STATEMENT:

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS. AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL SUBMITTED.

ATTENTION EXCAVATORS:

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503.232.1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503.246.6699

17. BMPs that will be used to prevent or minimize stormwater from being exposed to pollutants from spills, no discharge of concrete truck wash water, vehicle and equipment cleaning, vehicle and equipment fueling, maintenance, and storage, other cleaning and maintenance activities, and waste handling activities. These pollutants include fuels, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, leftover paints, solvents, and glues from construction operations. (Schedule A.7.e.iii.(2))

18. Any use of toxic or other hazardous materials must include proper storage, application, and disposal. (Schedule A.7.e.iii(2))

19. Solid Waste and Hazardous Materials Management. Follow project written spill prevention and response procedures, employee training on spill preventing and proper disposal procedures; regular maintenance schedule for vehicles and machinery; and material delivery and storage controls, training and signage, material use, covered storage areas for waste and supplies. (Schedule A.7.e.iii(3))

20. The permittee must properly manage hazardous waste, used oils, contaminated soils, concrete waste, sanitary waste, liquid waste, or other toxic substances discovered or generated during construction and meet all state and federal regulations and approvals. (Schedule A.7.e.iii.(4))

21. The ESCP measures shown on this plan are minimum requirements for anticipated site conditions. During the construction period, these measures must be upgraded as needed to comply with all applicable local, state, and federal erosion and sediment control regulations. Changes to the ESCP must also be submitted in the form of an Action Plan to DEQ or its Agent for approval. (Schedule A.7.f)

22. Significant amounts of sediment, which leaves the site, must be cleaned up within 24 hours and placed back on the site and stabilized or properly disposed. The cause of the sediment release must be found and prevented from causing a recurrence of the discharge within the same 24 hours. Any in-stream clean up of sediment shall be performed according to the Oregon Division of State Lands required time frame. (Schedule A.7.f.i(1))

23. Vacuuming or dry sweeping must be used to clean-up released sediment and must not be intentionally washed into storm sewers, drainage ways, or water bodies. (Schedule A.7.f.i.(2))

24. The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Time-released fertilizers should be used with care within any waterway riparian zone. (Schedule A.7.f.i.(3))

25. Sediment must be removed from behind a Sediment Fence when it has reached a height of 1/3 the height of the fence aboveground and before fence removal. (schedule A.7.f.ii.(1))

26. Sediment must be removed from behind Bio Bags and other barriers when it has reached a height of two (2) inches and before BMP removal. (Schedule A.7.f.ii.(2))

27. Removal of trapped sediment in a Sediment Basin or Sediment Trap or Catch Basins must occur when the sediment retention capacity has been reduced by fifty (50) % and at completion of project. (Schedule A.7.f.ii.(3) & (4))

28. DEQ must approve of any treatment system and operational plan that may be necessary to treat contaminated construction dewatering or sediment and turbidity in stormwater runoff. (Schedule A.7.f.iii)

29. Should all construction activities cease for thirty days or more, the entire site must be temporarily stabilized using vegetation or a heavy mulch layer, temporary seeding, or other method. (Schedule A.8.a.)

30. Should construction activities cease for fifteen (15) days or more on any significant portion of a construction site temporary stabilization is required for that portion of the site with straw, compost, or other tackified covering that prevent soil or wind erosion until work resumes on that portion of the site. (Schedule A.8.b.)

31. Daily inspections when rainfall and runoff occurs of the BMPs and discharge outfalls must be the project ESCP Inspector. These inspections and observations must be recorded in a log that is available on site. (Schedule A.6.b.i.) & (Schedule B.1.b.(1))

32. BMPs must be inspected before, during and after significant storm events. (Schedule A.7.f.)

33. All ESCP controls and practices must be inspected visually once to ensure that BMPs are in working order prior to the site becoming inactive or in anticipation of site inaccessibility and must be inspected visually once every two (2) weeks during inactive periods greater than seven (7) consecutive calendar days. (Schedule B.1.b.(2)-(3))

34. If practical, inspection must occur daily at a relevant and accessible discharge point or downstream location during periods which the site is inaccessible due to inclement weather. (Schedule B.1.b.(4))

VICINITY MAP
NOT TO SCALE

PROJECT LOCATION:

NEAR THE CITY OF MC MINNVILLE, YAMHILL COUNTY, OREGON
LATITUDE=45°09'47.18" ; LONGITUDE=123°15'00.17"

PROPERTY DESCRIPTION:

TAX LOT 200 (YAMHILL COUNTY TAX MAP 05S05W01) LOCATED IN THE SOUTHWEST 1/4 OF SECTION 1, TOWNSHIP 5 SOUTH, RANGE 5 WEST, WILLAMETTE MERIDIAN, YAMHILL COUNTY, OREGON

L E G E N D :

- CONTROL POINT
- EXISTING OUTFALL MONITORING POINTS
- EXISTING DRINKING WATER WELL
- EXISTING PROPERTY LINE
- EXISTING CULVERT
- EXISTING FLOW LINE
- EXISTING POWER POLE
- EXISTING FENCE LINE
- PROPOSED SILT FENCE
- EXISTING CONTOUR LINE
- EXISTING INDEX CONTOUR LINE
- PROPOSED MODULE 8D
- PROPOSED BORROW AREA
- PROPOSED FUEL STORAGE AREA

N O T E : ALL OTHERS AS NOTED ON PLAN

REDUCTION SCALE CHECK
SCALE = 1

PROJECT # 090304

REV	DATE	REVISION DESCRIPTION	DES	DRN	APP
1	07/9/09	ISSUED FOR CONST.	RN	STM	RN

VISTA CONSULTANTS, LLC
4132 SW BARBUR BLVD.
PORTLAND, OREGON 97239
(503) 922-2522
ENVIRONMENTAL INFORMATION LOGISTICS LLC

SCALE:
AS SHOWN

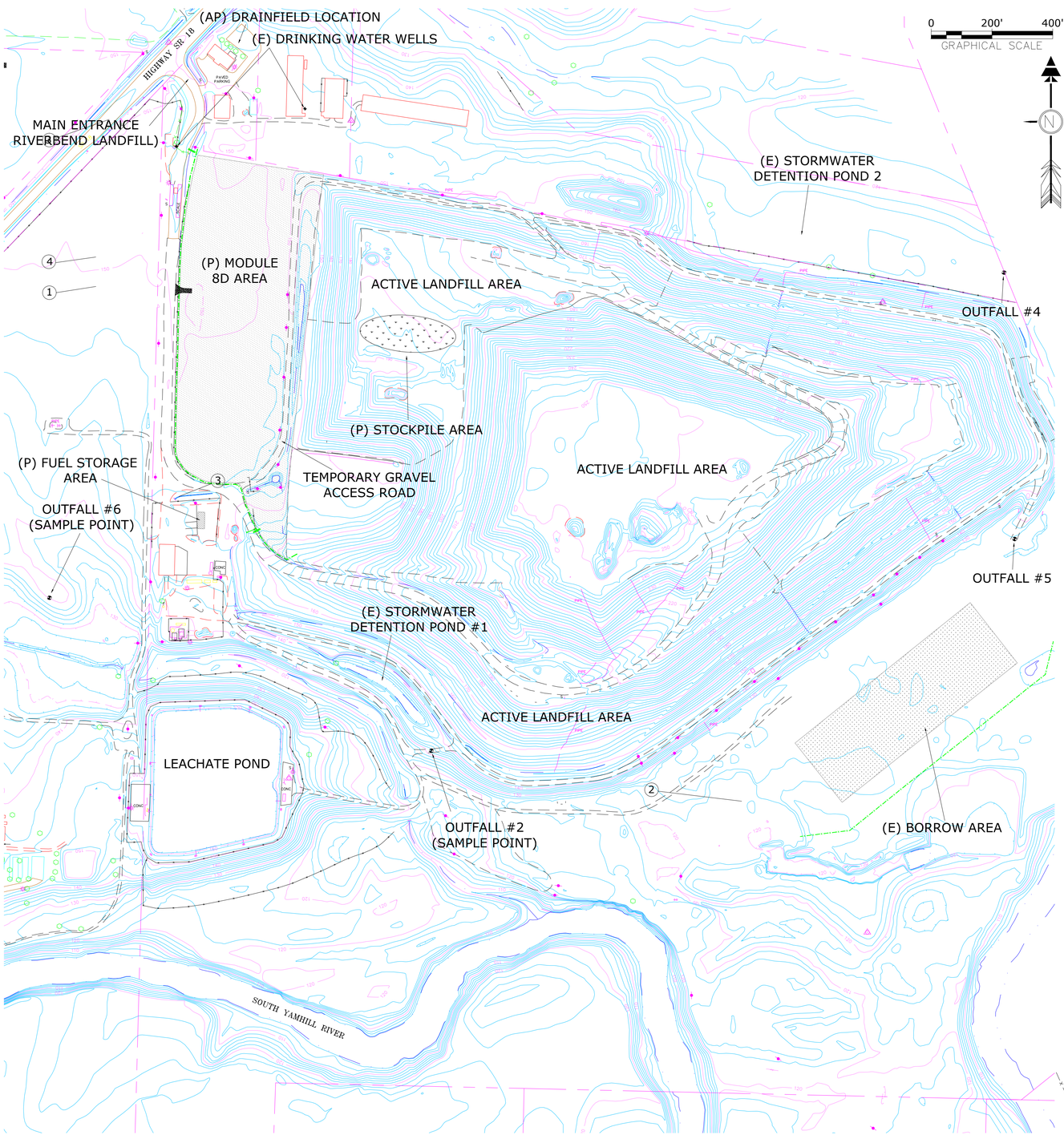
DATE: 5/26/09

CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER
RIVERBEND LANDFILL
MCMINNVILLE, OREGON

1200C PLAN VIEW AND GENERAL NOTES

DRAWING NO.
9 OF 10

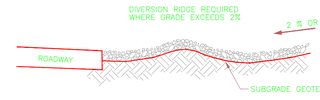
C:\CIVIL 3D PROJECTS\RIVERBEND\REFERENCE DRAWINGS\1200C DRAWINGS\10 EROSION CONTROL.DWG PLOTTED: 7/9/2009 5:33 PM ON ANSI FULL BLEED D (22.00 X 34.00 INCHES)



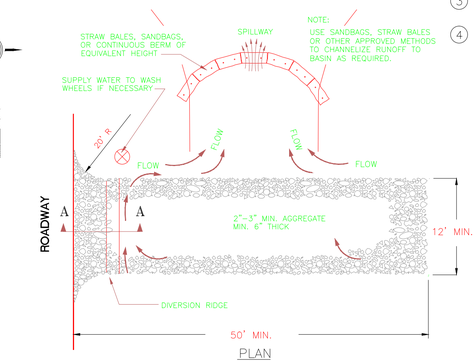
BASIS FOR HORIZONTAL AND VERTICAL CONTROL:

HORIZONTAL AND VERTICAL CONTROL IS ON LOCAL SITE DATUM.
ELEVATION BENCHMARK IS A 1" IRON PIPE NEAR SW CORNER (E) SCALE SHACK.
N 4000.00 E 4000.00 ELEV. = 151.80'

TOPOGRAPHIC SURVEY PROVIDED BY WALKER AND ASSOCIATES ON APRIL 2008. EIL, LLC ASSUMES NO RESPONSIBIILITY FOR THE ACCURACY OF THE DATA REPRESENTED HEREON.



SECTION A – A



PLAN

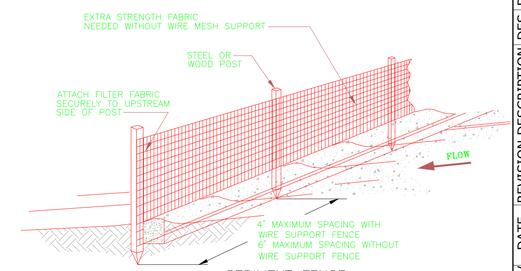
NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT–OF–WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

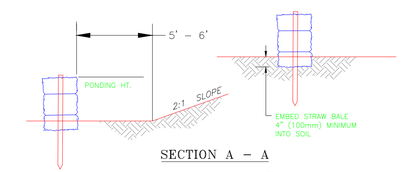
GRAVEL CONSTRUCTION ENTRANCE DETAIL

CONSTRUCTION NOTES:

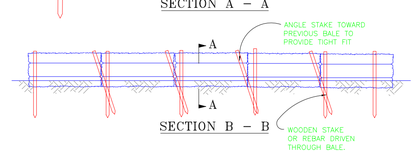
1. INSTALL 1,600 LF SILT FENCE
2. INSTALL 1,100 LF SILT FENCE
3. INSTALL STRAW BALES
4. INSTALL GRAVEL CONSTRUCTION ENTRANCE



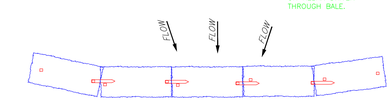
SEDIMENT FENCE



SECTION A – A



SECTION B – B

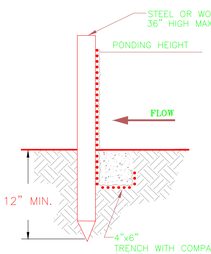


PLAN

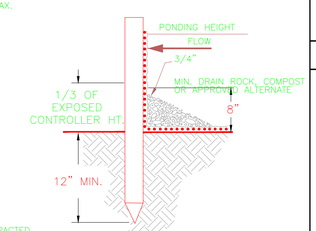
NOTES:

1. THE STRAW BALES SHALL BE PLACED ON SLOPE CONTOUR.
2. BALES TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING.
3. KEY IN BALES TO PREVENT EROSION OR FLOW UNDER BALES.

STRAW BALE DIKE DETAIL



TRENCH DETAIL

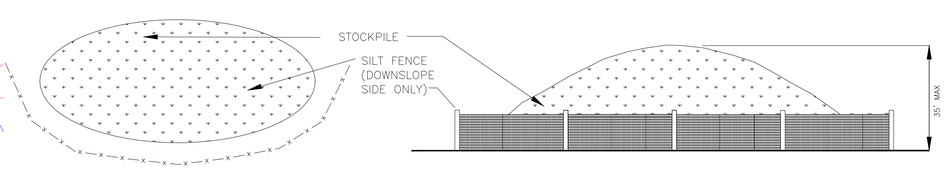


INSTALLATION WITHOUT TRENCHING

NOTES:

1. SEDIMENT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN IT EXCEEDS 1/3 THE EXPOSED HEIGHT OF CONTROLLER STORAGE DEPTH.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF–SITE AND CAN BE PERMANENTLY STABILIZED.

SILT FENCE STANDARD DETAILS



PLAN VIEW

STOCKPILE AREA DETAIL

REDUCTION SCALE CHECK
SCALE = 1

PROJECT # 090304

VISTA CONSULTANTS, LLC
4132 SW BARBUR BLVD.
PORTLAND, OREGON 97239
(503) 922-2522

EIL ENVIRONMENTAL INFORMATION LOGISTICS LLC

REV	DATE	REVISION DESCRIPTION	DES	DRN	APP
1	07/9/09	ISSUED FOR CONST.	RN	STM	RN

SCALE:
AS SHOWN

DATE: 5/26/09

CONSTRUCTION DRAWINGS
MODULE 8D AND PHASE 4 OVERLINER
RIVERBEND LANDFILL
MCMINNVILLE, OREGON

EROSION CONTROL

DRAWING NO.
10 OF 10

C:\CIVIL 3D PROJECTS\RIVERBEND\REFERENCE DRAWINGS\1200C DRAWINGS\10 EROSION CONTROL.DWG PLOTTED: 7/9/2009 5:33 PM ON ANSI FULL BLEED D (22.00 X 34.00 INCHES)