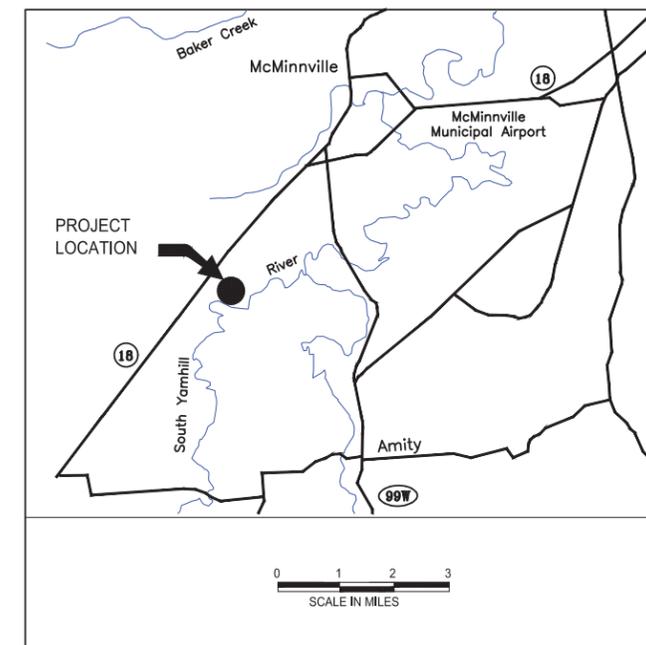


2019 NORTH AND EAST FINAL CLOSURE RIVERBEND LANDFILL McMINNVILLE, YAMHILL COUNTY, OREGON APRIL 2019



SOURCE: BY GOOGLE MAPS. VICINITY MAP
NOT TO SCALE

Sheet Number	Sheet Title	Rev.
1	COVER SHEET	2
2	CONSTRUCTION NOTES	1
3	EXISTING CONDITIONS	
3A	EROSION AND SEDIMENT CONTROL PLAN	
4	FINAL GRADING PLAN	
4A	SUBDRAIN LAYOUT PLAN	
5	FINAL CLOSURE DETAILS I	
6	FINAL CLOSURE DETAILS II	2
7	DOWNCHUTE DETAILS	
8	HEADWALL, DROP INLET AND CULVERT DETAILS	
9	MISCELLANEOUS DETAILS	
10	NORTHERN STORMWATER POND DETAILS	
11	STORMWATER DRAINAGE DETAILS	
12	EROSION AND SEDIMENT CONTROL DETAILS I	
13	EROSION AND SEDIMENT CONTROL DETAILS II	

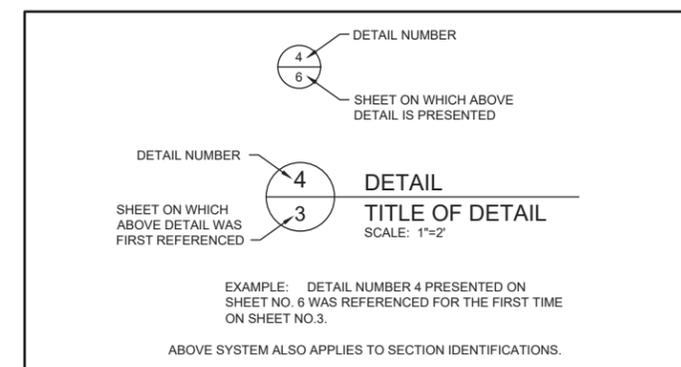


LOCATION MAP
NOT TO SCALE

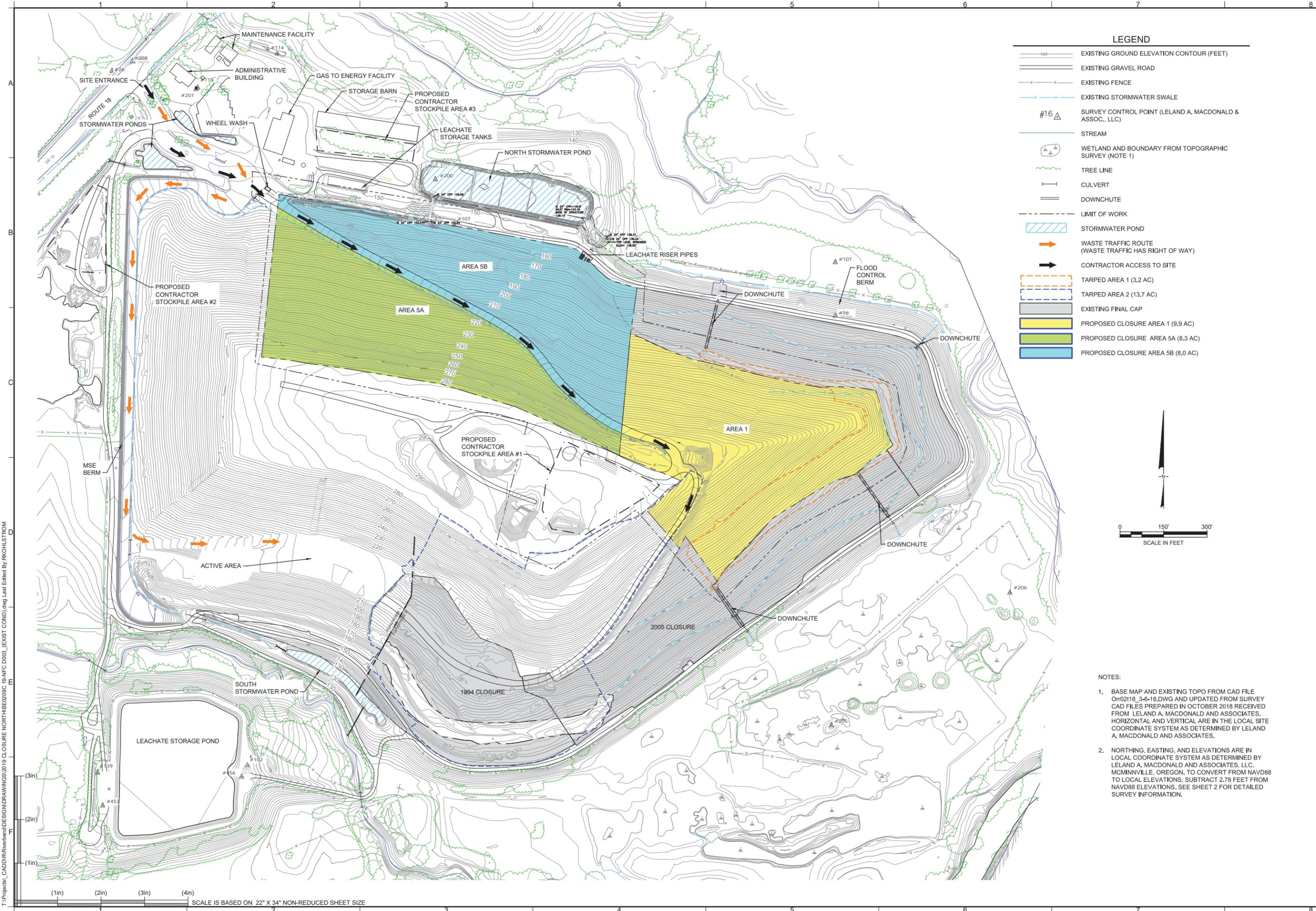
PREPARED FOR:



RIVERBEND LANDFILL COMPANY
13469 HIGHWAY 18
McMINNVILLE, OREGON 97128

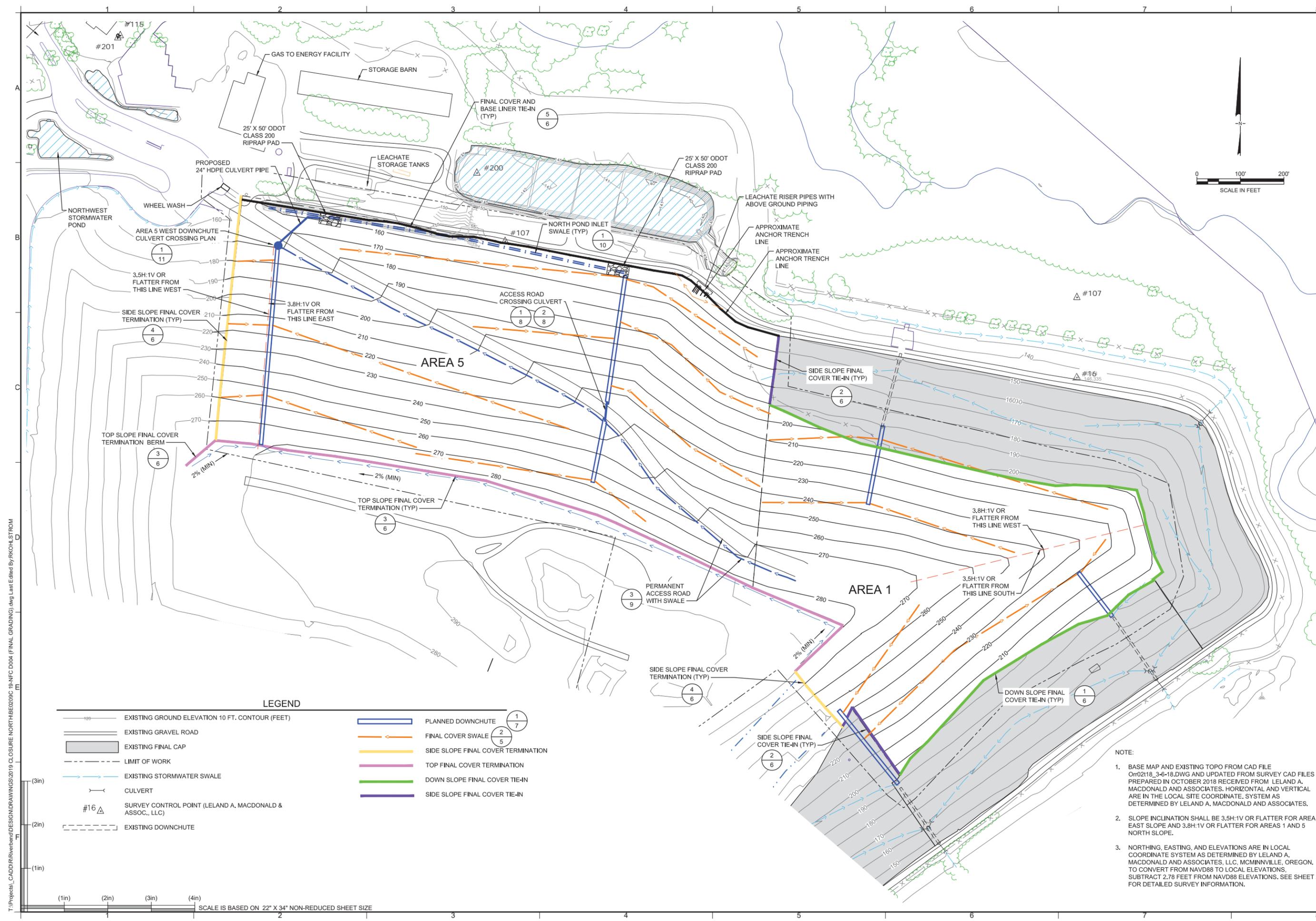


REVISION	DATE	REV	DATE	REV	DATE	REV	DATE
1	4/22/2019	1	4/22/2019	2	4/16/2019	1	4/16/2019
DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
1	MODIFIED VEGETATIVE SOIL REQUIREMENT	1	MODIFIED VEGETATIVE SOIL REQUIREMENT	2	REVISION TO DETAIL NOTES	1	REVISION TO DETAIL NOTES
2	DRY APP	2	DRY APP	3	DRY APP	3	DRY APP
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4	DRY APP	4	DRY APP	5	DRY APP	5	DRY APP
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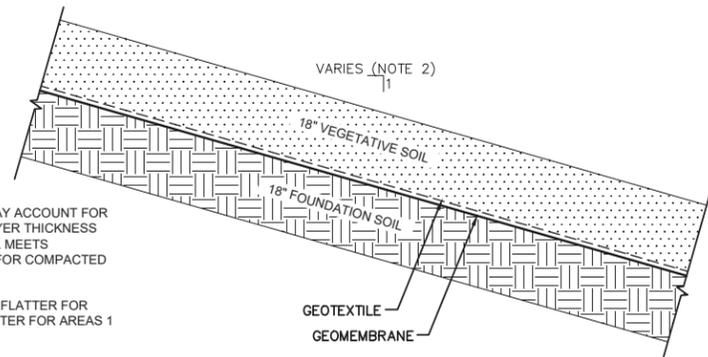
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FINAL GRADING PLAN				
2019 NORTH AND EAST FINAL CLOSURE				
RIVERBEND LANDFILL COMPANY McMINNVILLE, OREGON				
DESIGN BY: DUB / MM	DRAWN BY: YMC	CHECKED BY: YMC	REVIEWED BY: YMC	APPROVED BY: YMC
 1111 BROADWAY SIXTH FLOOR OAKLAND, CA 94607 PHONE: 978.263.9888 PHONE: 510.265.2716				
THIS DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF RIVERBEND LANDFILL COMPANY.				
SIGNATURE:  DATE: FEBRUARY 12, 2019				
REV	DATE	DESCRIPTION	DRN	APP

NOTE:

- BASE MAP AND EXISTING TOPO FROM CAD FILE 0r02118_3-6-18.DWG AND UPDATED FROM SURVEY CAD FILES PREPARED IN OCTOBER 2018 RECEIVED FROM LELAND A. MACDONALD AND ASSOCIATES. HORIZONTAL AND VERTICAL ARE IN THE LOCAL SITE COORDINATE SYSTEM AS DETERMINED BY LELAND A. MACDONALD AND ASSOCIATES.
- SLOPE INCLINATION SHALL BE 3.5H:1V OR FLATTER FOR AREA 1 EAST SLOPE AND 3.8H:1V OR FLATTER FOR AREAS 1 AND 5 NORTH SLOPE.
- NORTHING, EASTING, AND ELEVATIONS ARE IN LOCAL COORDINATE SYSTEM AS DETERMINED BY LELAND A. MACDONALD AND ASSOCIATES, LLC, MCMINNVILLE, OREGON. TO CONVERT FROM NAVD88 TO LOCAL ELEVATIONS, SUBTRACT 2.78 FEET FROM NAVD88 ELEVATIONS. SEE SHEET 2 FOR DETAILED SURVEY INFORMATION.

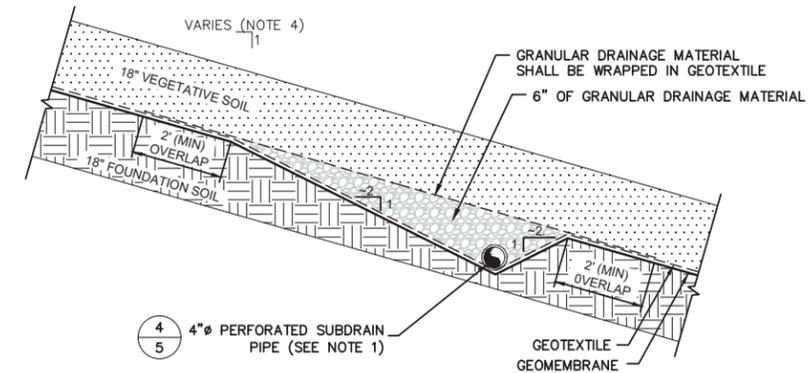
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PROJECT NO.	BE0209C	PROJECT	2019 NORTH AND EAST FINAL CLOSURE
FILE		SITE	RIVERBEND LANDFILL COMPANY McMINNVILLE, OREGON
DRAWING NO.	5	OF	13
DESIGN BY:	DJB / MM	CHECKED BY:	YMC
DRAWN BY:	RIK	REVIEWED BY:	YMC
CHECKED BY:	YMC	APPROVED BY:	DJB
REVIEWED BY:	YMC		
APPROVED BY:	DJB		
		SIGNATURE: <i>David G. Smith</i> DATE: FEBRUARY 12, 2019	
THIS DRAWING MAY NOT BE RE-USED FOR PROJECTS OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED UNLESS SO INDICATED.			

- NOTES:
- EXISTING INTERIM COVER ABOVE MSW MAY ACCOUNT FOR A PORTION OF THE FOUNDATION SOIL LAYER THICKNESS PROVIDED THE INTERIM COVER MATERIAL MEETS REQUIREMENTS IN THE SPECIFICATIONS FOR COMPACTED SOIL (I.E. COMPACTION AND GRADATION).
 - SLOPE INCLINATION SHALL BE 3.5H:1V OR FLATTER FOR AREA 1 EAST SLOPE AND 3.8H:1V OR FLATTER FOR AREAS 1 AND 5 NORTH SLOPE.



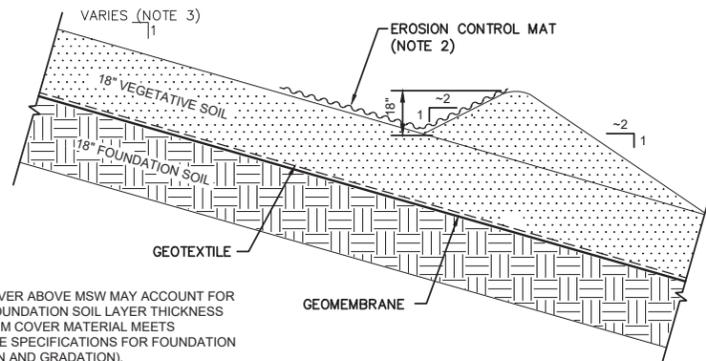
1
4 DETAIL
FINAL COVER SYSTEM
SCALE: N.T.S.

- NOTES:
- SUBDRAIN PERFORATED DRAINAGE PIPES SHALL BE SPACED A MAXIMUM OF 150 FEET MEASURED ALONG THE FINAL COVER SLOPE.
 - EXISTING INTERIM COVER ABOVE MSW MAY ACCOUNT FOR A PORTION OF THE FOUNDATION SOIL LAYER THICKNESS PROVIDED THE INTERIM COVER MATERIAL MEETS REQUIREMENTS IN THE SPECIFICATIONS FOR FOUNDATION SOIL (I.E. COMPACTION AND GRADATION).
 - ALL SUBDRAIN PIPES IN FINAL COVER SYSTEM SHALL DAYLIGHT/DRAIN INTO STORM WATER MANAGEMENT STRUCTURES (E.G., DOWNCHUTES).
 - SLOPE INCLINATION SHALL BE 3.5H:1V OR FLATTER FOR AREA 1 EAST SLOPE AND 3.8H:1V OR FLATTER FOR AREAS 1 AND 5 NORTH SLOPE.

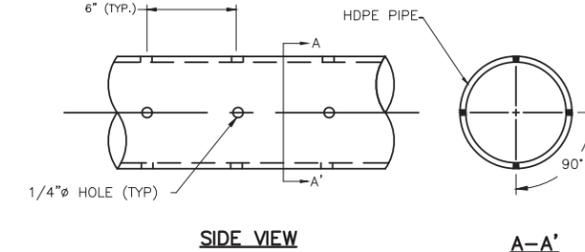


3
4A DETAIL
FINAL COVER SYSTEM WITH SUBDRAIN
SCALE: N.T.S.

- NOTES:
- EXISTING INTERIM COVER ABOVE MSW MAY ACCOUNT FOR A PORTION OF THE FOUNDATION SOIL LAYER THICKNESS PROVIDED THE INTERIM COVER MATERIAL MEETS REQUIREMENTS IN THE SPECIFICATIONS FOR FOUNDATION SOIL (I.E. COMPACTION AND GRADATION).
 - PLACE EROSION CONTROL MAT A MINIMUM OF 3.5 FT UPSLOPE OF SWALE CENTERLINE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - SLOPE INCLINATION SHALL BE 3.5H:1V OR FLATTER FOR AREA 1 EAST SLOPE AND 3.8H:1V OR FLATTER FOR AREAS 1 AND 5 NORTH SLOPE.



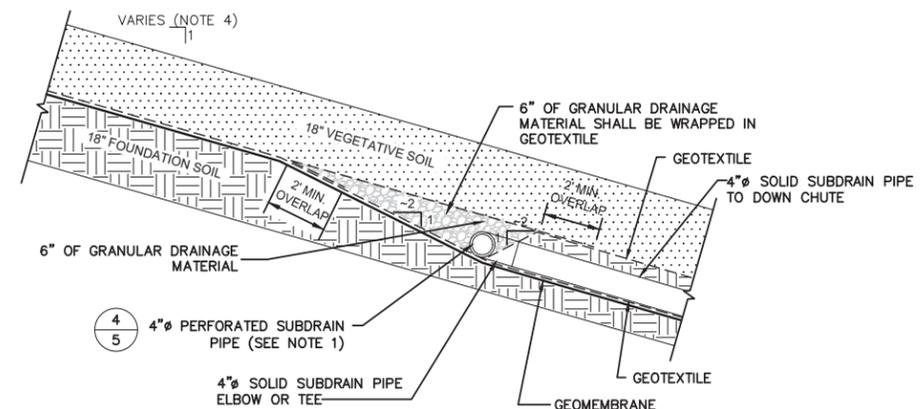
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4 DETAIL
FINAL COVER SYSTEM WITH SWALE
SCALE: N.T.S.



NOTE: SDR-17 OR 21 HDPE PIPE SHALL BE USED, OR AS APPROVED BY ENGINEER.

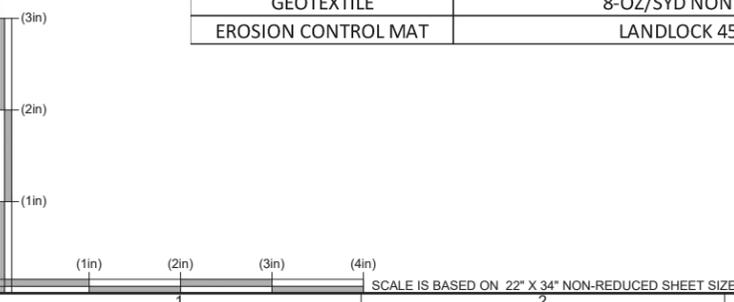
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4 DETAIL
SUBDRAIN PIPE PERFORATION
SCALE: N.T.S.

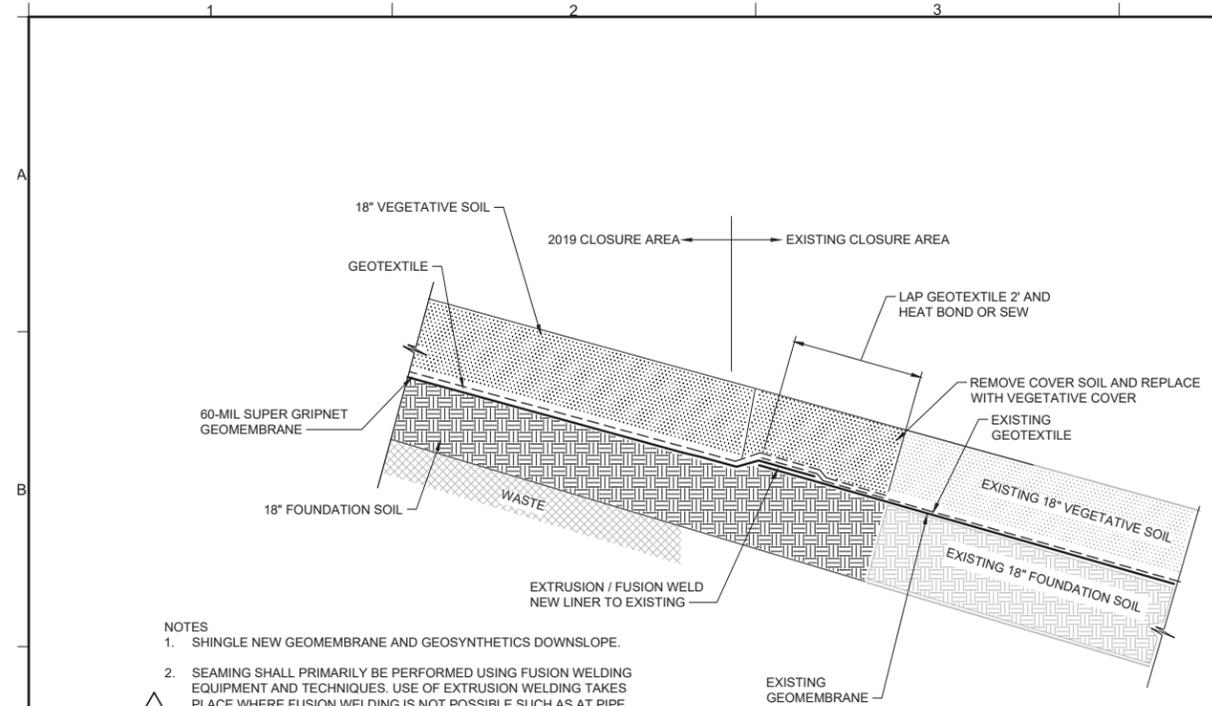
- NOTES:
- SUBDRAIN PERFORATED PIPES SHALL BE CONNECTED TO SOLID CONVEYANCE SUBDRAIN PIPE TO DOWNCHUTE.
 - EXISTING INTERIM COVER ABOVE MSW MAY ACCOUNT FOR A PORTION OF THE FOUNDATION SOIL LAYER THICKNESS PROVIDED THE INTERIM COVER MATERIAL MEETS REQUIREMENTS IN THE SPECIFICATIONS FOR FOUNDATION SOIL (I.E. COMPACTION AND GRADATION).
 - ALL SUBDRAIN PIPES IN FINAL COVER SYSTEM SHALL DAYLIGHT/DRAIN INTO STORM WATER MANAGEMENT STRUCTURES (E.G., DOWNCHUTES).
 - SLOPE INCLINATION SHALL BE 3.5H:1V OR FLATTER FOR AREA 1 EAST SLOPE AND 3.8H:1V OR FLATTER FOR AREAS 1 AND 5 NORTH SLOPE.



5
4A DETAIL
SUBDRAIN TO DOWNCHUTE
SCALE: N.T.S.

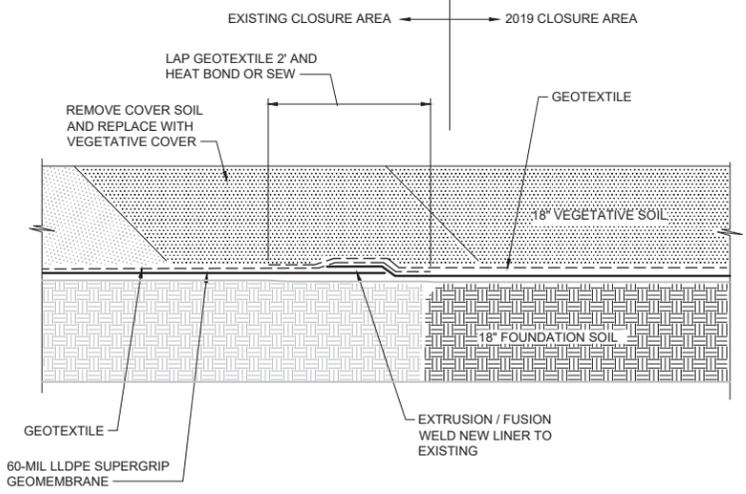
MATERIAL	SPECIFICATIONS
GEOMEMBRANE	60-MIL THICK LLDPE SUPER GRIPNET GEOMEMBRANE (AGRU) INSTALL STUDS SIDE UP, TEXTURED SIDE DOWN
GEOTEXTILE	8-OZ/SYD NONWOVEN GEOTEXTILE
EROSION CONTROL MAT	LANDLOCK 450 OR EQUIVALENT





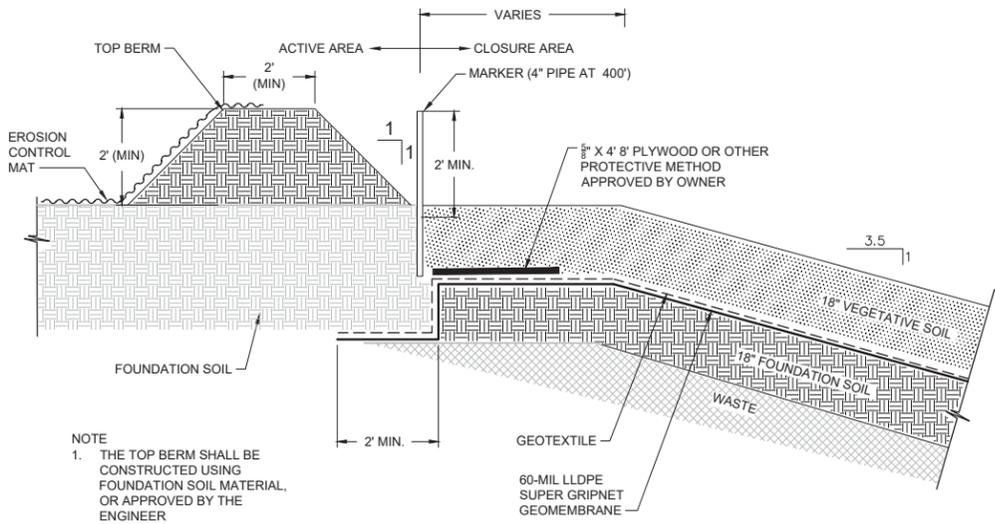
NOTES
 1. SHINGLE NEW GEOMEMBRANE AND GEOSYNTHETICS DOWNSLOPE.
 2. SEAMING SHALL PRIMARILY BE PERFORMED USING FUSION WELDING EQUIPMENT AND TECHNIQUES. USE OF EXTRUSION WELDING TAKES PLACE WHERE FUSION WELDING IS NOT POSSIBLE SUCH AS AT PIPE PENETRATIONS, PATCHES, REPAIRS AND SHORT (LESS THAN A ROLL WIDTH) RUNS OF SEAMS.

1
4 **DETAIL**
DOWN SLOPE FINAL COVER TIE-IN
 N.T.S.



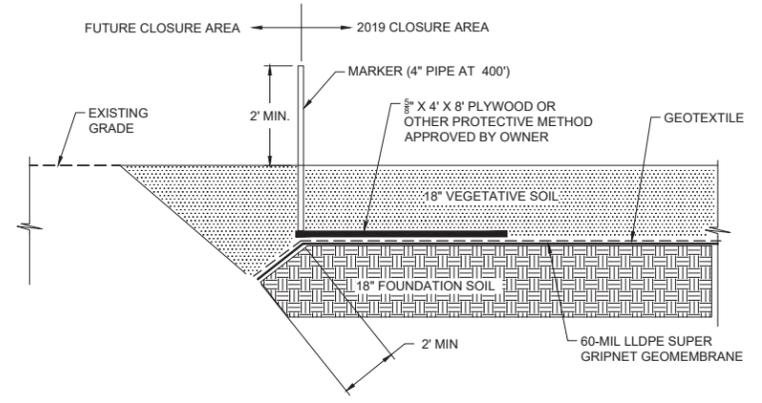
NOTES
 1. SEAMING SHALL PRIMARILY BE PERFORMED USING FUSION WELDING EQUIPMENT AND TECHNIQUES. USE OF EXTRUSION WELDING TAKES PLACE WHERE FUSION WELDING IS NOT POSSIBLE SUCH AS AT PIPE PENETRATIONS, PATCHES, REPAIRS AND SHORT (LESS THAN A ROLL WIDTH) RUNS OF SEAMS.

2
4 **DETAIL**
SIDE SLOPE FINAL COVER TIE-IN
 N.T.S.

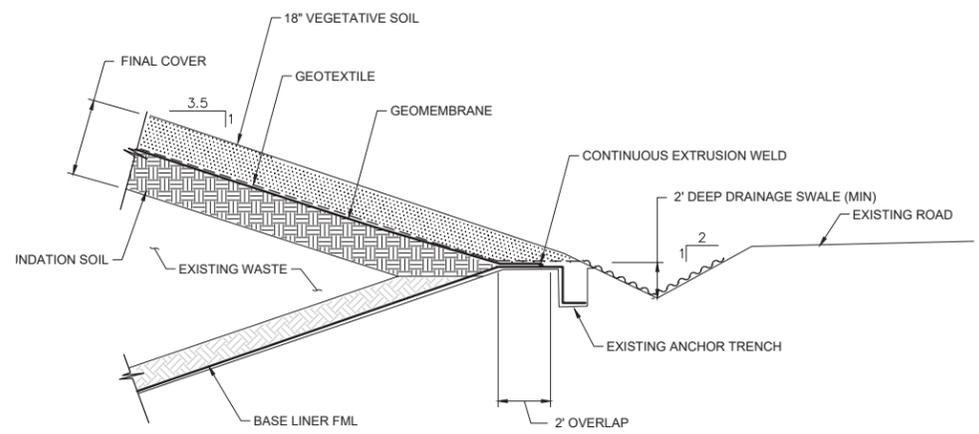


NOTE
 1. THE TOP BERM SHALL BE CONSTRUCTED USING FOUNDATION SOIL MATERIAL, OR APPROVED BY THE ENGINEER

3
4 **DETAIL**
TOP SLOPE FINAL COVER TERMINATION
 N.T.S.



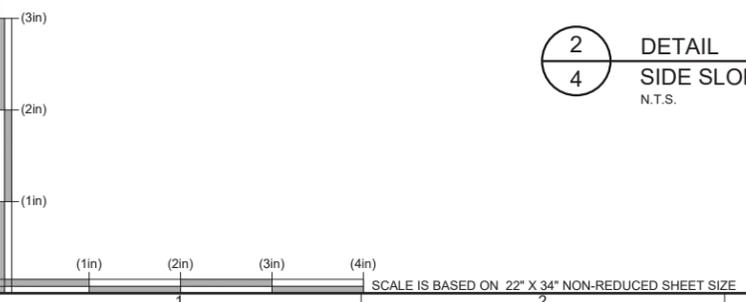
4
4 **DETAIL**
SIDE SLOPE FINAL COVER TERMINATION
 N.T.S.



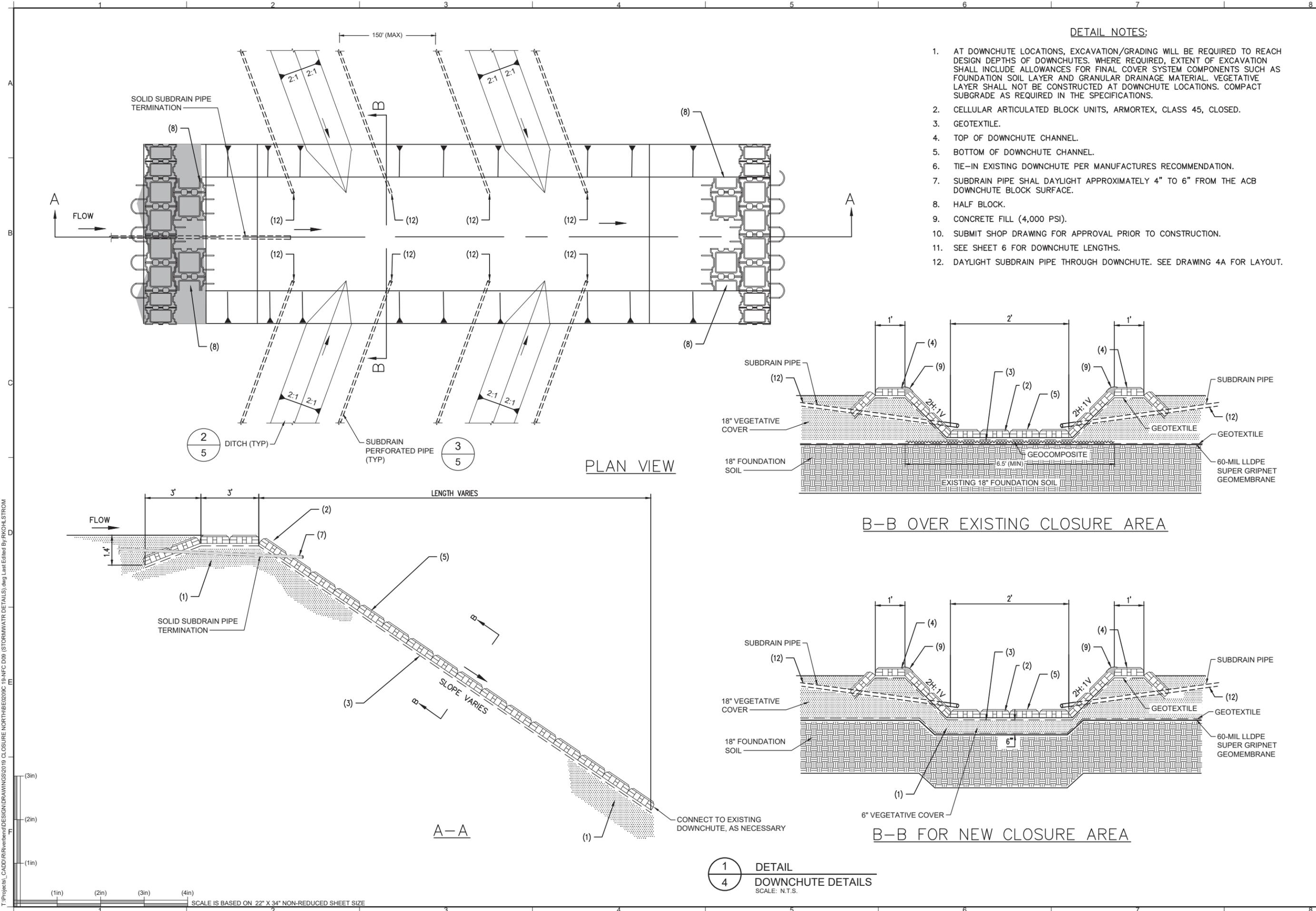
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4 **DETAIL**
FINAL COVER AND BASE LINER TIE-IN
 N.T.S.

NOTE: CONNECTION DETAIL FOR THE CONCRETE STRUCTURE UNDER THE LEACHATE RISER PIPES WILL BE EVALUATED ONCE CONTRACTOR EXPOSES THE AREA.

T:\Projects\CADD\Riverbend\DESIGN\DRAWINGS\2019 CLOSURE NORTH\BEO209C 19-NFC 0005 (DETAIL CLOSURE I).dwg Last Edited By:RKH/SLSTROM



DATE: FEBRUARY 2019	PROJECT NO.: BEO209C	FILE:	DRAWING NO.: 6 OF 13
TITLE: FINAL CLOSURE DETAILS II			
PROJECT: 2019 NORTH AND EAST FINAL CLOSURE			
SITE: RIVERBEND LANDFILL COMPANY MCMINNVILLE, OREGON			
DESIGN BY: [Signature]	DRAWN BY: [Signature]	CHECKED BY: [Signature]	REVIEWED BY: [Signature]
APPROVED BY: [Signature]	DATE: APRIL 16, 2019	DATE: APRIL 16, 2019	DATE: APRIL 16, 2019
REVISION TO DETAIL NOTES	REVISION TO DETAIL NOTES	REVISION TO DETAIL NOTES	REVISION TO DETAIL NOTES
REV: 1	DATE: 4/2/2019	DESCRIPTION: MODIFIED VEGETATIVE SOIL REQUIREMENT	DRN / APP: RJK / DJB
REV: 2	DATE: 4/16/2019	DESCRIPTION: REVISION TO DETAIL NOTES	DRN / APP: RJK / DJB



- DETAIL NOTES:**
1. AT DOWNCHUTE LOCATIONS, EXCAVATION/GRADING WILL BE REQUIRED TO REACH DESIGN DEPTHS OF DOWNCHUTES. WHERE REQUIRED, EXTENT OF EXCAVATION SHALL INCLUDE ALLOWANCES FOR FINAL COVER SYSTEM COMPONENTS SUCH AS FOUNDATION SOIL LAYER AND GRANULAR DRAINAGE MATERIAL. VEGETATIVE LAYER SHALL NOT BE CONSTRUCTED AT DOWNCHUTE LOCATIONS. COMPACT SUBGRADE AS REQUIRED IN THE SPECIFICATIONS.
 2. CELLULAR ARTICULATED BLOCK UNITS, ARMORTEX, CLASS 45, CLOSED.
 3. GEOTEXTILE.
 4. TOP OF DOWNCHUTE CHANNEL.
 5. BOTTOM OF DOWNCHUTE CHANNEL.
 6. TIE-IN EXISTING DOWNCHUTE PER MANUFACTURES RECOMMENDATION.
 7. SUBDRAIN PIPE SHAL DAYLIGHT APPROXIMATELY 4" TO 6" FROM THE ACB DOWNCHUTE BLOCK SURFACE.
 8. HALF BLOCK.
 9. CONCRETE FILL (4,000 PSI).
 10. SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO CONSTRUCTION.
 11. SEE SHEET 6 FOR DOWNCHUTE LENGTHS.
 12. DAYLIGHT SUBDRAIN PIPE THROUGH DOWNCHUTE. SEE DRAWING 4A FOR LAYOUT.

PLAN VIEW

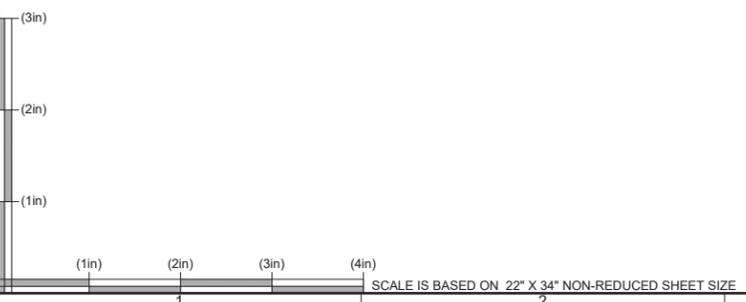
B-B OVER EXISTING CLOSURE AREA

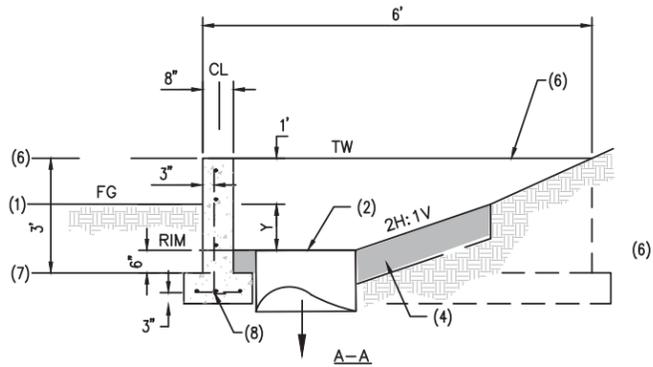
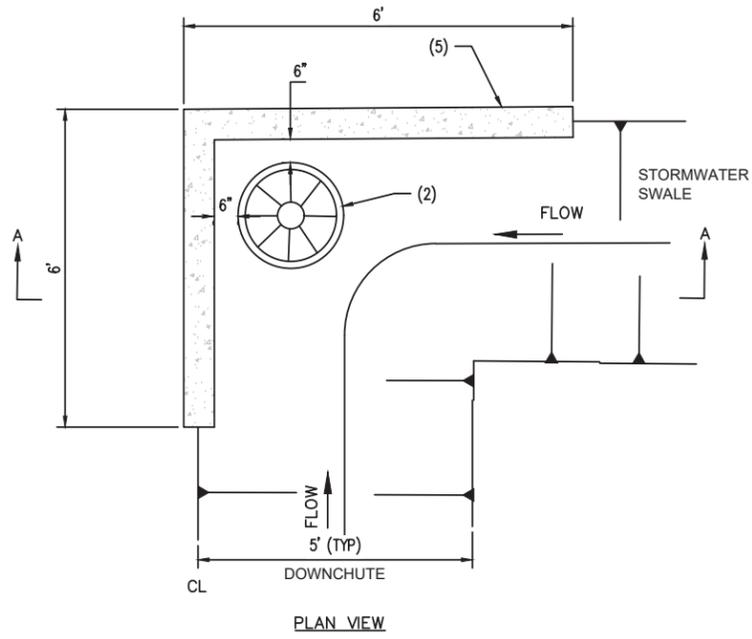
B-B FOR NEW CLOSURE AREA

1 DETAIL
4 DOWNCHUTE DETAILS
SCALE: N.T.S.

DATE: FEBRUARY 2019	PROJECT NO.: BE0209C	FILE:	DRAWING NO.: 7 OF 13
PROJECT: 2019 NORTH AND EAST FINAL CLOSURE			
SITE: RIVERBEND LANDFILL COMPANY McMINNVILLE, OREGON			
TITLE: DOWNCHUTE DETAILS			
DESIGN BY: DJB / MM	DRAWN BY: YMC	CHECKED BY: YMC	REVIEWED BY: YMC
APPROVED BY: DJB			
DESIGNER'S SIGNATURE: <i>[Signature]</i>			
DATE: FEBRUARY 12, 2019			
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RIVERBEND LANDFILL COMPANY PHONE: 503.263.9888			

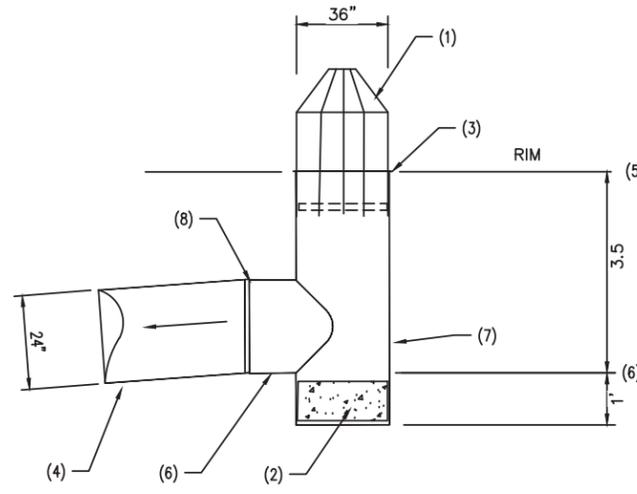
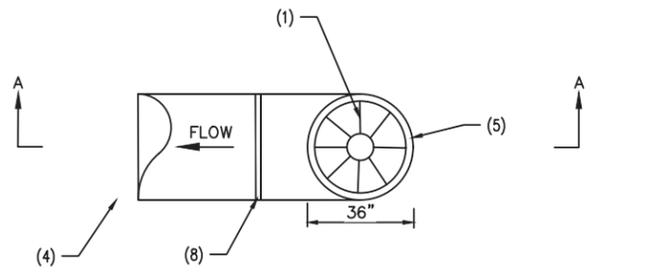
T:\Projects\CADD\Riverbend\DESIGN\DRAWINGS\2019 CLOSURE NORTH\BE0209C 19-NFC D09 (STORMWATER DETAILS).dwg Last Edited By: RIKOHLSTROM





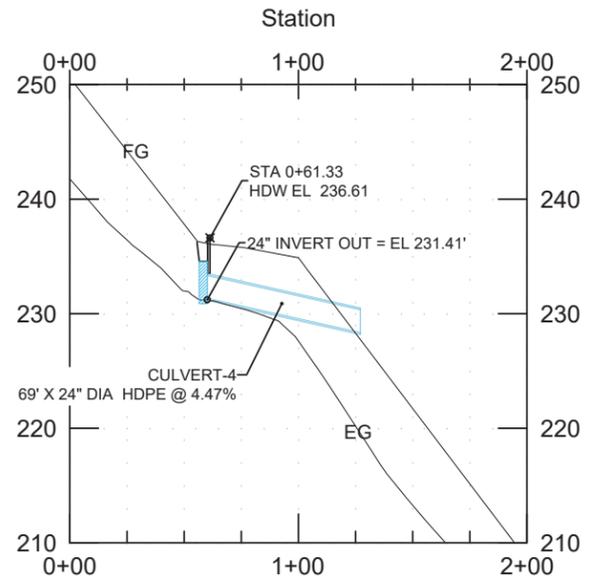
DETAIL NOTES FOR HEADWALLS:

1. FINISHED GRADE (FG) SHOWN ON SHEET 10 DETAIL 2.
2. RIM ELEVATION SHOWN ON PLAN.
3. SWALE TRANSITION TO LEVEL BOTTOM.
4. EROSION PROTECTION 4" ASPHALTIC CONCRETE LINING.
5. CONSTRUCT REINFORCED CONCRETE HEADWALL WHERE SHOWN ON SHEET 10 DETAIL 2. EXTEND WALLS L1 AS NEEDED TO MATCH FINISHED GRADE.
6. TOP OF WALL ELEVATION (TW).
7. TOP OF FOOTING ELEVATION (TF).
8. REINFORCING STEEL, NO. 4 BARS, 12" C-C, BOTH WAYS, AND 3" CLEAR. ONE HORIZONTAL BAR AT TOP AND THREE AT BOTTOM.



DETAIL NOTES FOR DROP INLET:

1. BAR GUARD (TRASH RACK) HANCOR MODEL NO. 2420 DA.
2. HDPE WELDED PLUG AND 4" CONCRETE PIPE PLUG IN BOTTOM OF TEE.
3. VERTICAL RISER CUT TO FIT RIM ELEVATION.
4. HDPE (PE 4710) WATER TIGHT PIPE AND BUTT WELDED JOINTS. INSIDE DIAMETER SHOWN ON SHEET 10 DETAIL 2.
5. RIM ELEVATION = EL 234.57'.
6. PIPE INVERT ELEVATION (INV) SHOWN SHEET 10 DETAIL 2.
7. HDPE (PE 4710) PREFAB TEE FITTING (24" x 24" x 36").
8. BUTT WELDED JOINT (ASTM D 2657).

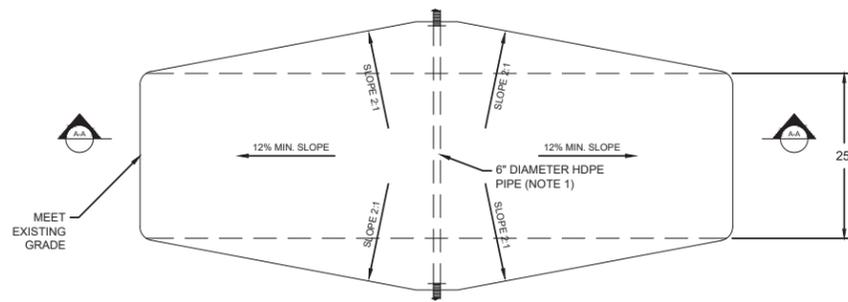


2 PROFILE
4 PERMANENT ROAD CROSSING CULVERT
SCALE: N.T.S.

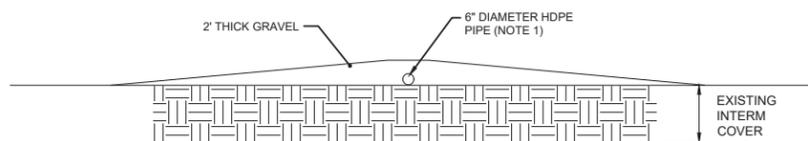
1 DETAIL
4 HEADWALL AND DROP INLET DETAILS
SCALE: N.T.S.

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DATE: FEBRUARY 2019	PROJECT NO.: BEO209C	FILE:	DRAWING NO.: 8 OF 13
TITLE: HEADWALL, DROP INLET AND CULVERT DETAILS			
PROJECT: 2019 NORTH AND EAST FINAL CLOSURE			
SITE: RIVERBEND LANDFILL COMPANY McMINNVILLE, OREGON			
DESIGN BY: DUB/MM	DRAWN BY: RMIK	CHECKED BY: YMIC	REVIEWED BY: YMIC
APPROVED BY: DUB	DATE: FEBRUARY 12, 2019	SIGNATURE: <i>David G. Smith</i>	
THIS DRAWING IS NOT TO BE USED FOR PROJECT TENDER OR CONSTRUCTION UNLESS SEALED.			
DRN / APP	REV	DATE	DESCRIPTION

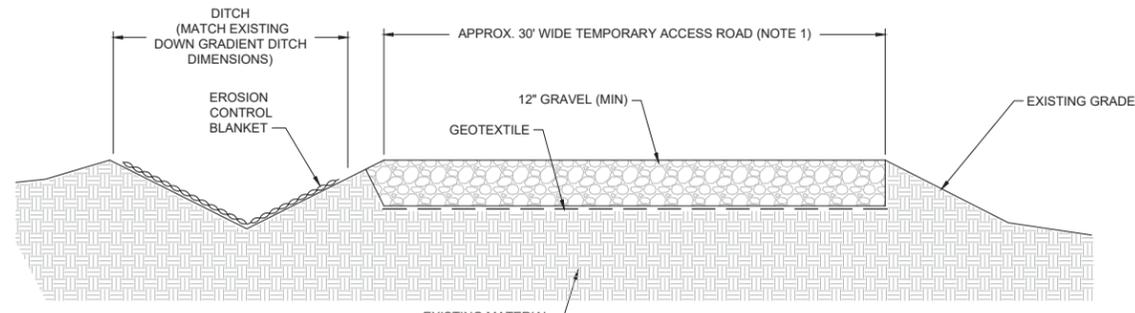


PLAN VIEW
 NOTE:
 1. HDPE PIPE RATED FOR AASHTO H-20 LOADING



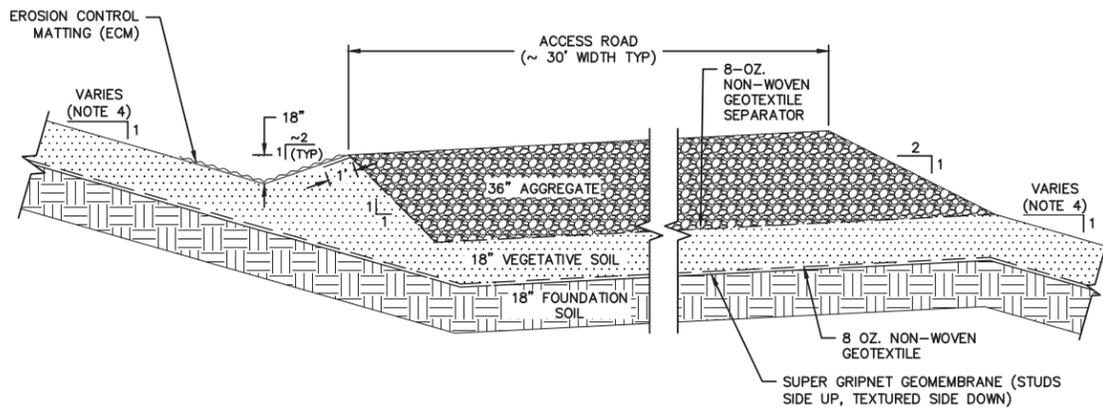
SECTION A-A
 NOTE:
 1. HDPE PIPE RATED FOR AASHTO H-20 LOADING
 2. THE CONTRACTOR SHALL USE PREVIOUSLY STRIPPED ROAD MATERIAL AS DIRECTED BY OWNER

1
3A **DETAIL**
CULVERT ROAD CROSSING
 SCALE: N.T.S.



NOTE:
 1. THE CONTRACTOR SHALL USE PREVIOUSLY STRIPPED MATERIAL TO CONSTRUCT TEMPORARY ACCESS ROAD

2
3A **DETAIL**
TEMPORARY ACCESS ROAD
 SCALE: N.T.S.

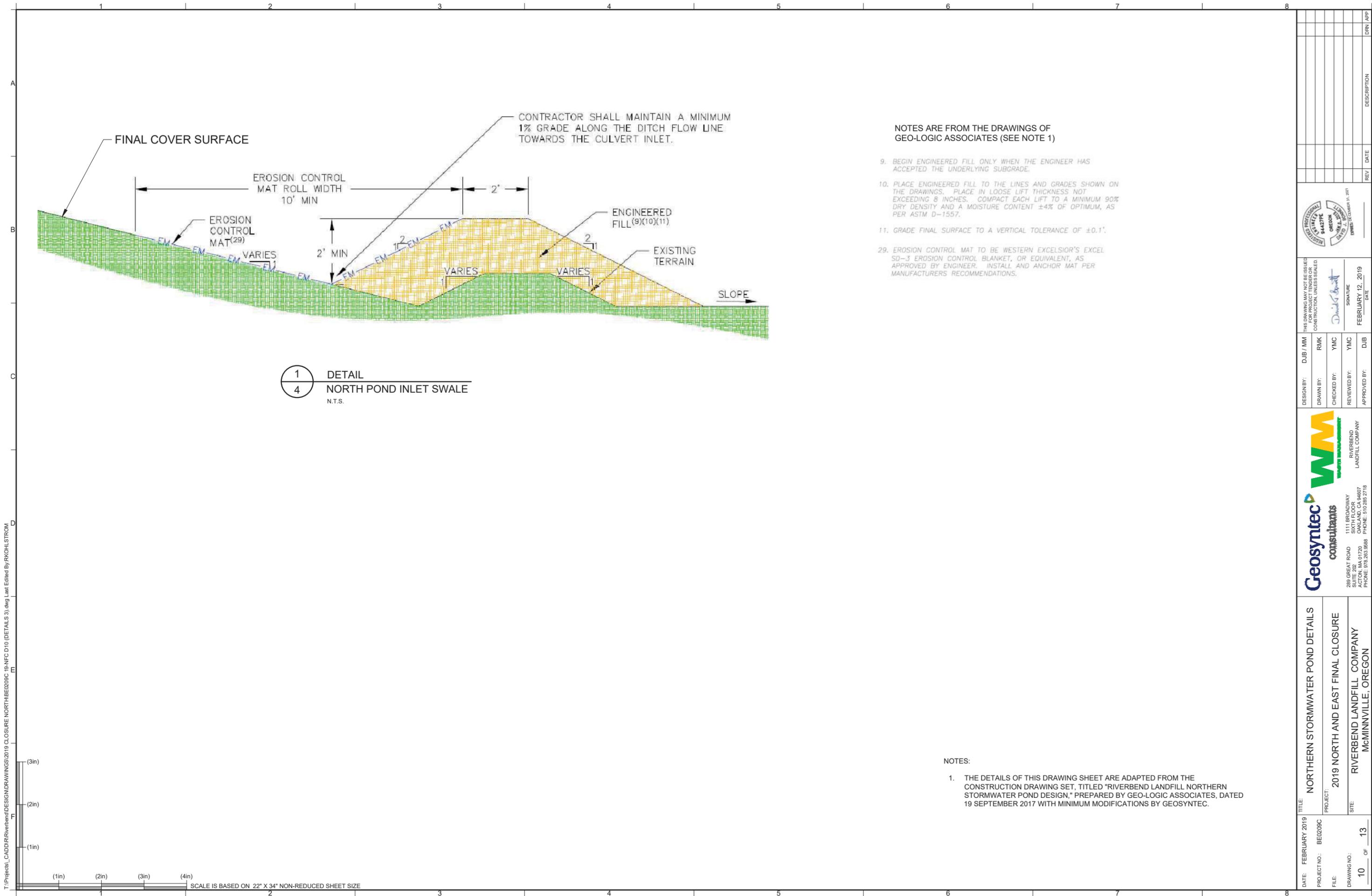


NOTES:
 1. ROAD SURFACING SHALL BE COMPACTED TO 90% RELATIVE COMPACTION (ASTM D1557).
 2. AGGREGATE SHALL MEET THE REQUIREMENTS IN ODOT SECTION 00680, DESIGNATED SIZE 1/2 INCH - 1/4 INCH. AGGREGATE BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION (ASTM D1557). OTHER REQUIREMENTS SHALL MEET ODOT SECTIONS 00640 AND 00641 INCLUDING REQUIREMENTS FOR PLACING AGGREGATE BASE ON GEOTEXTILE.
 3. SUBDRAIN PERFORATED DRAINAGE PIPES SHALL BE SPACED A MAXIMUM OF 50 FEET MEASURED ALONG THE FINAL COVER SLOPE.
 4. SLOPE INCLINATION SHALL BE 3.5H:1V OR FLATTER FOR AREA 1 EAST SLOPE AND 3.8H:1V OR FLATTER FOR AREAS 1 AND 5 NORTH SLOPE.

3
4 **DETAIL**
PERMANENT ACCESS ROAD WITH SWALE
 SCALE: N.T.S.

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DATE: FEBRUARY 2019	PROJECT NO.: BED0209C	FILE:	DRAWING NO.: 9 OF 13
TITLE: MISCELLANEOUS DETAILS			
PROJECT: 2019 NORTH AND EAST FINAL CLOSURE			
SITE: RIVERBEND LANDFILL COMPANY McMINNVILLE, OREGON			
DESIGN BY: DJB / MM	DRAWN BY: RMK	CHECKED BY: YMC	REVIEWED BY: YMC
APPROVED BY: DJB	DATE: FEBRUARY 12, 2019	SIGNATURE: <i>David G. Smith</i>	DATE: FEBRUARY 12, 2019
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REV	DATE	DESCRIPTION	DRN / APP

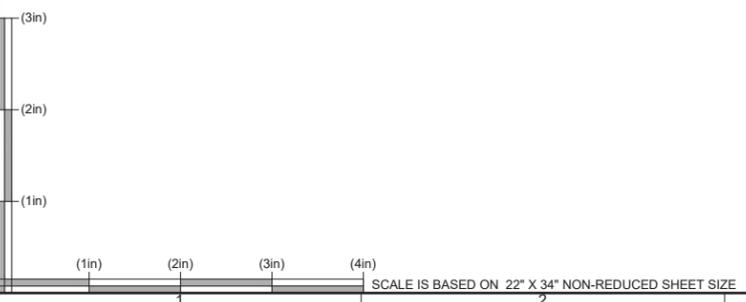


- NOTES ARE FROM THE DRAWINGS OF GEO-LOGIC ASSOCIATES (SEE NOTE 1)
- 9. BEGIN ENGINEERED FILL ONLY WHEN THE ENGINEER HAS ACCEPTED THE UNDERLYING SUBGRADE.
 - 10. PLACE ENGINEERED FILL TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. PLACE IN LOOSE LIFT THICKNESS NOT EXCEEDING 8 INCHES. COMPACT EACH LIFT TO A MINIMUM 90% DRY DENSITY AND A MOISTURE CONTENT $\pm 4\%$ OF OPTIMUM, AS PER ASTM D-1557.
 - 11. GRADE FINAL SURFACE TO A VERTICAL TOLERANCE OF $\pm 0.1'$.
 - 29. EROSION CONTROL MAT TO BE WESTERN EXCELSIOR'S EXCEL SD-3 EROSION CONTROL BLANKET, OR EQUIVALENT, AS APPROVED BY ENGINEER. INSTALL AND ANCHOR MAT PER MANUFACTURERS RECOMMENDATIONS.

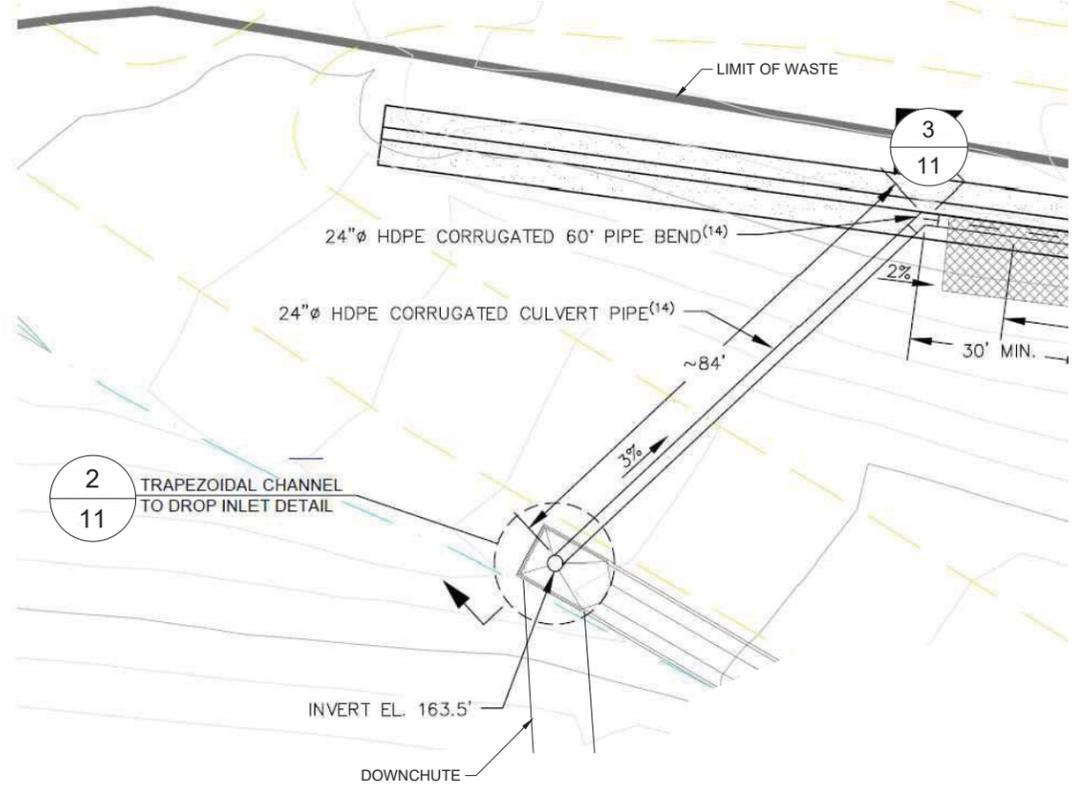
1
4
DETAIL
NORTH POND INLET SWALE
N.T.S.

- NOTES:
- 1. THE DETAILS OF THIS DRAWING SHEET ARE ADAPTED FROM THE CONSTRUCTION DRAWING SET, TITLED "RIVERBEND LANDFILL NORTHERN STORMWATER POND DESIGN," PREPARED BY GEO-LOGIC ASSOCIATES, DATED 19 SEPTEMBER 2017 WITH MINIMUM MODIFICATIONS BY GEOSYNTEC.

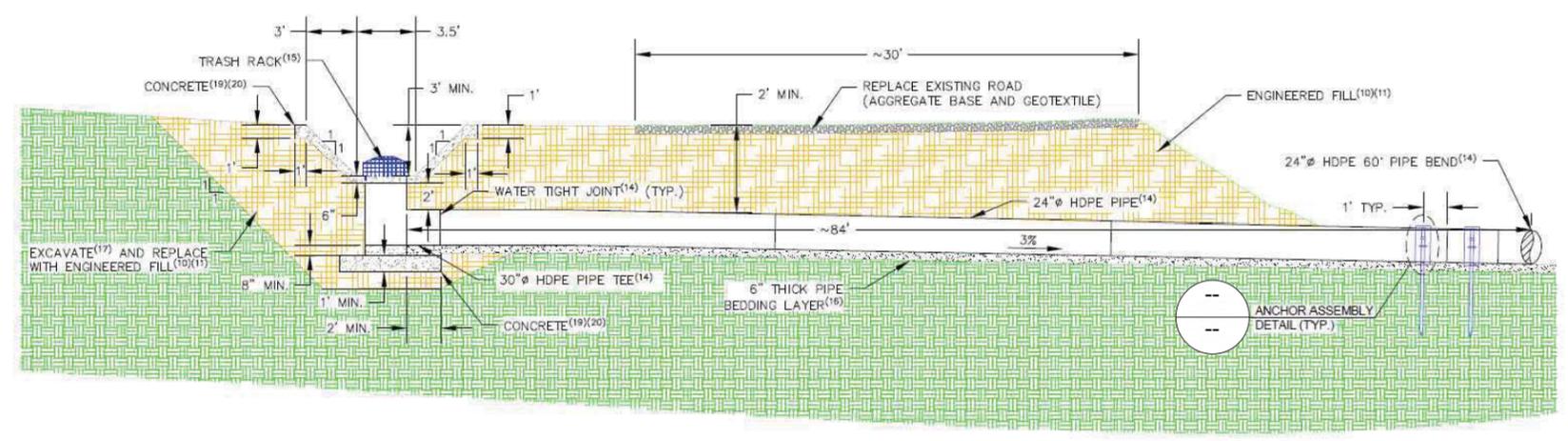
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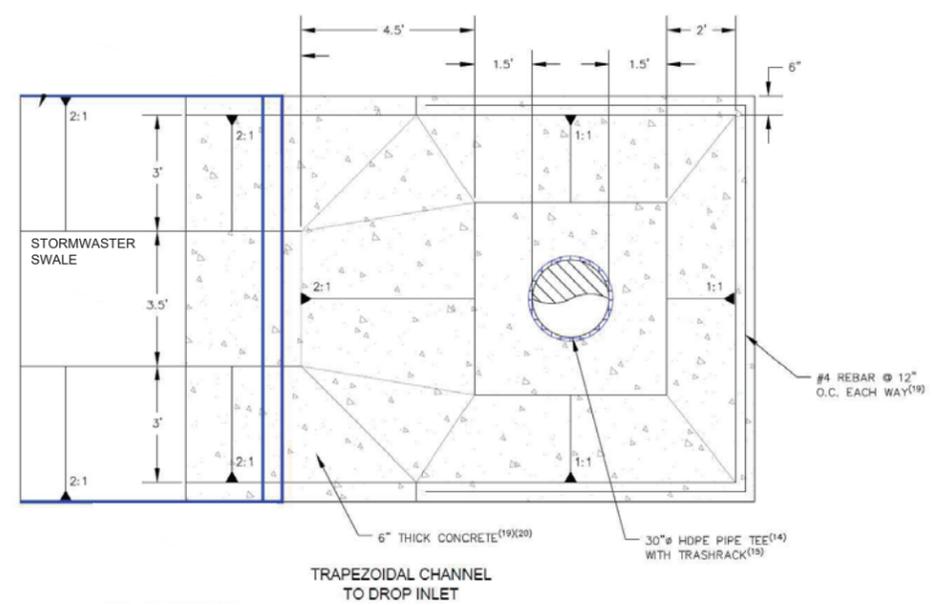
DATE: FEBRUARY 2019	PROJECT NO.: BEC209C	TITLE: NORTHERN STORMWATER POND DETAILS	DESIGN BY: DJB / MM	DRN / APP	DESCRIPTION	DATE	REV
FILE:	PROJECT: 2019 NORTH AND EAST FINAL CLOSURE	PROJECT: RIVERBEND LANDFILL COMPANY	DRAWN BY: RNIK				
DRAWING NO.: 10	SITE: RIVERBEND LANDFILL COMPANY	SITE: RIVERBEND LANDFILL COMPANY	CHECKED BY: YMC				
OF 13	McMINNVILLE, OREGON	McMINNVILLE, OREGON	REVIEWED BY: YMC				
			APPROVED BY: DJB				
			DESIGNER SIGNATURE: <i>David G. Smith</i>				
			DATE: FEBRUARY 12, 2019				
			THIS DRAWING MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM GEO-LOGIC ASSOCIATES, INC.				



1
4 **DETAIL**
AREA 5 WEST DOWNCHUTE CULVERT CROSSING PLAN
N.T.S.



3
11 **DETAIL**
AREA 5 WEST DOWNCHUTE CULVERT CROSSING SECTION
N.T.S.



2
11 **DETAIL**
AREA 5 WEST DOWNCHUTE DROP INLET
N.T.S.

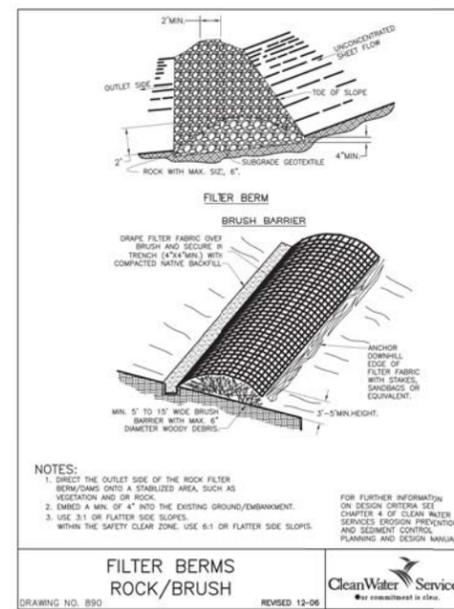
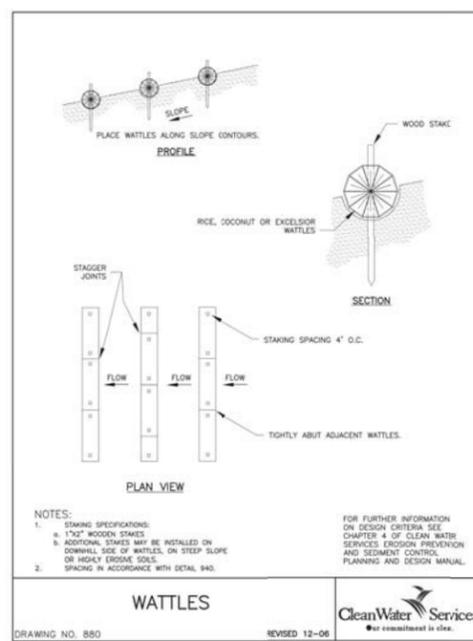
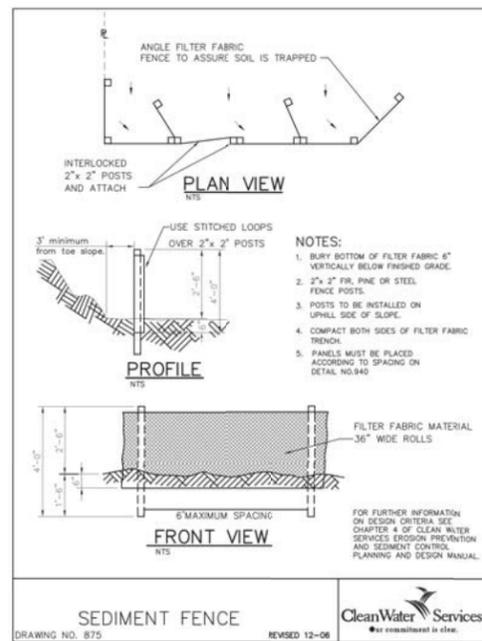
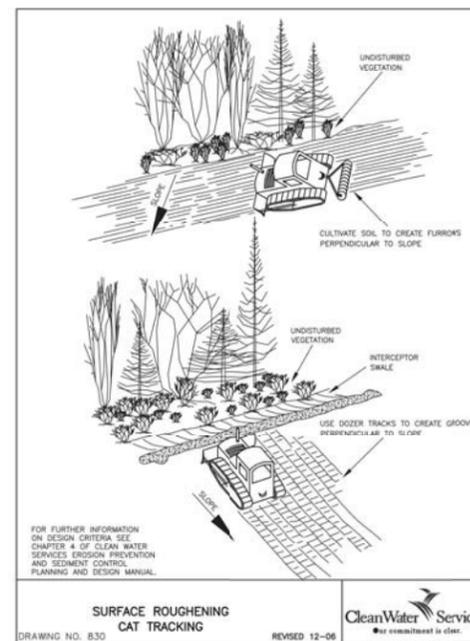
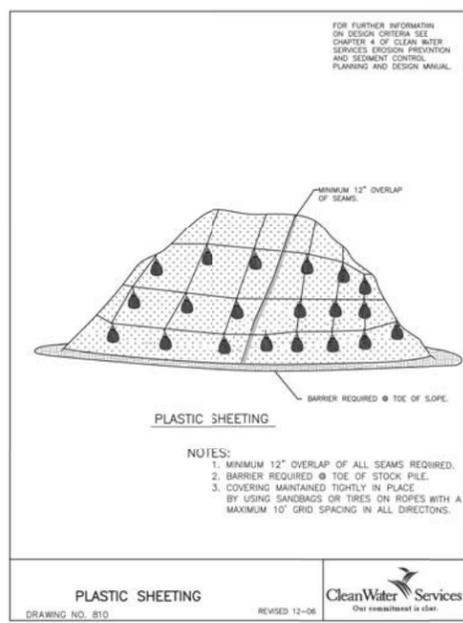
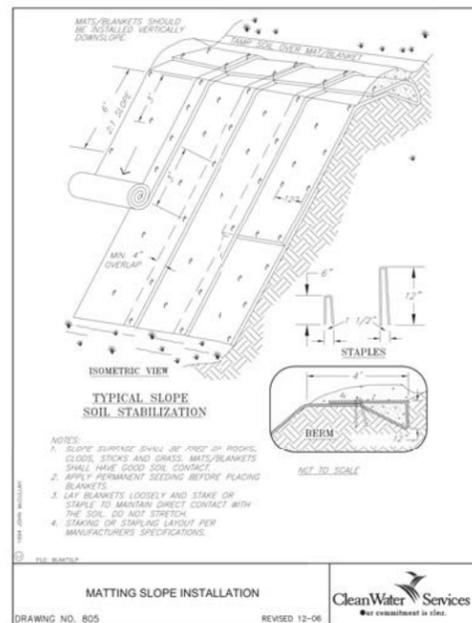
NOTES ARE FROM THE DRAWINGS OF GEO-LOGIC ASSOCIATES (SEE NOTE 1)

10. BEGIN ENGINEERED FILL ONLY WHEN THE ENGINEER HAS ACCEPTED THE UNDERLYING SUBGRADE.
11. PLACE ENGINEERED FILL TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. PLACE IN LOOSE LIFT THICKNESS NOT EXCEEDING 8 INCHES. COMPACT EACH LIFT TO A MINIMUM 90% DRY DENSITY AND A MOISTURE CONTENT ±4% OF OPTIMUM, AS PER ASTM D-1557.
14. HDPE PIPE SHALL BE WATER TIGHT HDPE ADS-N12 OR EQUAL AS APPROVED BY THE ENGINEER. CONNECTION BETWEEN CONCRETE INLET AND HDPE PIPE SHALL BE WATER TIGHT. INSTALL USING FITTINGS AND METHODS AS DESCRIBED BY THE MANUFACTURER. WHEN INSTALLING PIPE ANCHORS, CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION TO AVOID CONTACT WITH EXISTING UTILITIES. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING UTILITIES DURING CONSTRUCTION. ALL PIPE DIAMETERS SHOWN ON PLANS ARE INSIDE DIAMETERS OF THE PIPE. SUBMIT PRODUCT DATA SHEET FOR OWNER'S APPROVAL PRIOR TO CONSTRUCTION.
15. TRASH RACK SHALL BE CONTECH® STORMRACK™, OR ALTERNATIVE AS APPROVED BY ENGINEER/OWNER, INSTALLED PER MANUFACTURERS RECOMMENDATIONS. RACK SHALL BE CAPABLE OF SUPPORTING 300 LBS. RACK SHALL BE SECURED SUCH THAT IT CAN BE EASILY REMOVED BY OWNER FOR MAINTENANCE. CONFINED SPACE SIGNAGE SHALL BE PLACED APPROPRIATELY ACCORDING TO WASTE MANAGEMENT'S SAFETY PROCEDURES AND PROTOCOLS.
16. PIPE BEDDING MATERIAL SHALL CONFORM TO ODOT SECTION 00405.12. PLACE BEDDING MATERIAL IN ACCORDANCE TO ODOT SECTION 00405.45.
17. CONTRACTOR SHALL EXCAVATE, PROVIDE SHORING, AND BACKFILL IN ACCORDANCE WITH ALL OSHA AND SITE HEALTH AND SAFETY REQUIREMENTS, AS WELL AS IN ACCORDANCE WITH ODOT SECTION 00405.41.
19. ALL POURED IN PLACE CONCRETE SHALL HAVE A 28 DAY ULTIMATE STRENGTH OF 4,000 PSI, A 2" TO 4" SLUMP, AND MEET REQUIREMENTS OF ODOT SPECIFICATIONS SECTION 00440. ALL REINFORCING BAR USED MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF ACI 318.
20. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, CONCRETE FOR THE PROJECT WILL BE FIBER-REINFORCED CONCRETE THAT IS MIXED AND PREPARED IN ACCORDANCE WITH ASTM C1116/C1116M.

- NOTE:
1. THE DETAILS OF THIS DRAWING SHEET ARE ADAPTED FROM THE CONSTRUCTION DRAWING SET, TITLED "RIVERBEND LANDFILL TOP DECK DRAINAGE SYSTEM," PREPARED BY GEO-LOGIC ASSOCIATES, DATED 06 SEPTEMBER 2018 WITH MINIMUM MODIFICATIONS BY GEOSYNTEC.
 2. FINAL COVER SYSTEM SHALL EXTEND TO THE LIMIT OF WASTE. THE GEOSYNTHETICS SHALL BE INSTALLED UNDER THE OUTLET PIPE WITH PIPE BOOT AROUND THE DROP INLET.

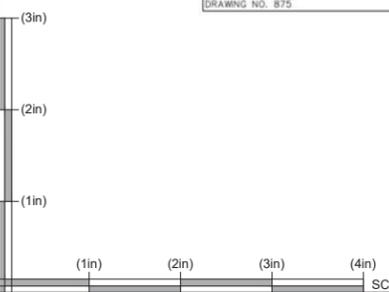
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DATE: FEBRUARY 2019	PROJECT NO.: BE0209C	FILE: 11	DRAWING NO.: 11	OF: 13
<p>STORMWATER DRAINAGE DETAILS</p> <p>2019 NORTH AND EAST FINAL CLOSURE</p> <p>RIVERBEND LANDFILL COMPANY</p> <p>McMINNVILLE, OREGON</p>				
DESIGN BY: DJB / MM	DRAWN BY: RMK	CHECKED BY: YMC	REVIEWED BY: YMC	APPROVED BY: DJB
<p>THIS DRAWING MAY NOT BE REUSED FOR PROJECTS OTHER THAN THE PROJECT FOR WHICH IT WAS PREPARED WITHOUT THE WRITTEN CONSENT OF GEO-LOGIC ASSOCIATES, INC.</p> <p>DATE: FEBRUARY 12, 2019</p>				
<p>Geosyntec consultants</p> <p>1111 BROADWAY SIXTH FLOOR OAKLAND, CA 94607 PHONE: 978.263.9688</p> <p>RIVERBEND LANDFILL COMPANY</p>				
<p>REGISTERED PROFESSIONAL ENGINEER STATE OF OREGON NO. 94427E DATE: DECEMBER 31, 2021</p>				
REV	DATE	DESCRIPTION	DRN / APP	



NOTE:
1. THE EROSION AND SEDIMENTATION CONTROL DETAILS ARE PROVIDED AS A GUIDANCE FOR THE BEST MANAGEMENT PRACTICES. THE CONTRACTOR SHALL CONFORM TO THE EROSION AND SEDIMENT CONTROL REQUIREMENTS SET FORTH IN THE LOCAL, STATE, AND FEDERAL REGULATIONS AND LAWS ALONG WITH THE SITE PLANS AND PERMITS.

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DATE: FEBRUARY 2019	PROJECT NO.: BE0209C	FILE:	DRAWING NO.: 12	OF 13
TITLE: EROSION AND SEDIMENT CONTROL DETAILS I				
PROJECT: 2019 NORTH AND EAST FINAL CLOSURE				
SITE: RIVERBEND LANDFILL COMPANY, McMinnville, Oregon				
DESIGN BY: DUB/MM	DRAWN BY: RIMK	CHECKED BY: YMC	REVIEWED BY: YMC	APPROVED BY: DUB
THIS DRAWING MAY NOT BE REUSED FOR PROJECTS OTHER THAN THE ONE FOR WHICH IT WAS PREPARED FOR CONSTRUCTION UNLESS SEALED.				
SIGNATURE: David S. Smith				DATE: FEBRUARY 12, 2019
1111 BROADWAY, SUITE 202, OAKLAND, CA 94607 280 GREAT ROAD, ACTION, MA 01720 RIVERBEND LANDFILL COMPANY, LANDFILL COMPANY, McMinnville, Oregon PHONE: 978.263.9888 PHONE: 510.265.2716				
DRN	APP	REV	DATE	DESCRIPTION

FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

SPACING FOR CHECK DAMS			
DITCH GRADE	6 INCH	12 INCH	18 INCH
6%	NOT ALLOWED	16 FT O.C.	26 FT O.C.
5%	NOT ALLOWED	20 FT	30 FT
4%	NOT ALLOWED	26 FT	40 FT
3%	15 FT	33 FT	50 FT
2%	25 FT	50 FT	80 FT

BARRIER SPACING FOR GENERAL APPLICATION		
INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS		
% SLOPE	SLOPE	MAXIMUM SPACING ON SLOPE
10% OR FLATTER	10:1 OR FLATTER	300 FT
>10% OR <15%	>10:1 OR <7.5:1	150 FT
>15% OR <20%	>7.5:1 OR <5:1	100 FT
>20% OR <30%	>5:1 OR <3.5:1	50 FT
>30% OR <50%	>3.5:1 OR <2:1	25 FT

FOR MORE INFORMATION REGARDING THESE TABLES SEE CHAPTER 4 TABLES 4-3 AND 4-7 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL DESIGN MANUAL.

SPACING TABLES
DRAWING NO. 940 REVISED 12-06



- RIPRAP:**
- ROCK FOR RIPRAP SHALL BE ANGULAR IN SHAPE.
 - THICKNESS OF A SINGLE ROCK SHALL NOT BE LESS THAN ONE-THIRD ITS LENGTH.
 - ROUNDED ROCK WILL NOT BE ACCEPTED UNLESS APPROVED BY THE DISTRICT.

- RIPRAP INSTALLATION:**
- EXCAVATE BELOW FINISH GRADE TO DEPTH & DIMENSIONS SHOWN ON APPROVED PLANS.
 - INSTALL WOVEN GEOTEXTILE FABRIC.
 - PLACE RIP RAP TO FINISH GRADE.

GRADE RIPRAP SHALL BE THE CLASS AND SIZE OF ROCK ACCORDING TO THE FOLLOWING:

CLASS	CLASS	CLASS	CLASS	CLASS	PERCENT (BY WEIGHT)
50	100	200	700	2000	
WEIGHT OF ROCK (LBS)					
50-30	100-60	200-140	700-500	2000-1400	20
30-15	60-25	140-88	500-200	1400-700	30
15-2	25-2	80-8	200-20	700-40	40
2-0	2-0	8-0	20-0	40-0	10

RIP RAP DETAILS
DRAWING NO. 770 REVISED 3-07



DATE: FEBRUARY 2019	TITLE: EROSION AND SEDIMENT CONTROL DETAILS II	DESCRIPTION
PROJECT NO.: BE0208C	PROJECT: 2019 NORTH AND EAST FINAL CLOSURE	REV
FILE:	SITE: RIVERBEND LANDFILL COMPANY, McMINNVILLE, OREGON	DATE
DRAWING NO.: 13 OF 13		



THIS DRAWING MAY NOT BE REPRODUCED FOR PROJECT TENDER OR CONSTRUCTION UNLESS SEALED.

Signature: David G. Smith
Date: FEBRUARY 12, 2019

DESIGN BY: DUB / MM	DUB	DUB
DRAWN BY: RMIK	RMIK	DUB
CHECKED BY: YMC	YMC	DUB
REVIEWED BY: YMC	YMC	DUB
APPROVED BY: YMC	YMC	DUB



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280 GREAT ROAD
SUITE 202
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PHONE: 978.263.9688

RIVERBEND LANDFILL COMPANY

NOTE:
1. THE EROSION AND SEDIMENTATION CONTROL DETAILS ARE PROVIDED AS A GUIDANCE FOR THE BEST MANAGEMENT PRACTICES. THE CONTRACTOR SHALL CONFORM TO THE EROSION AND SEDIMENT CONTROL REQUIREMENTS SET FORTH IN THE LOCAL, STATE, AND FEDERAL REGULATIONS AND LAWS ALONG WITH THE SITE PLANS AND PERMITS.

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