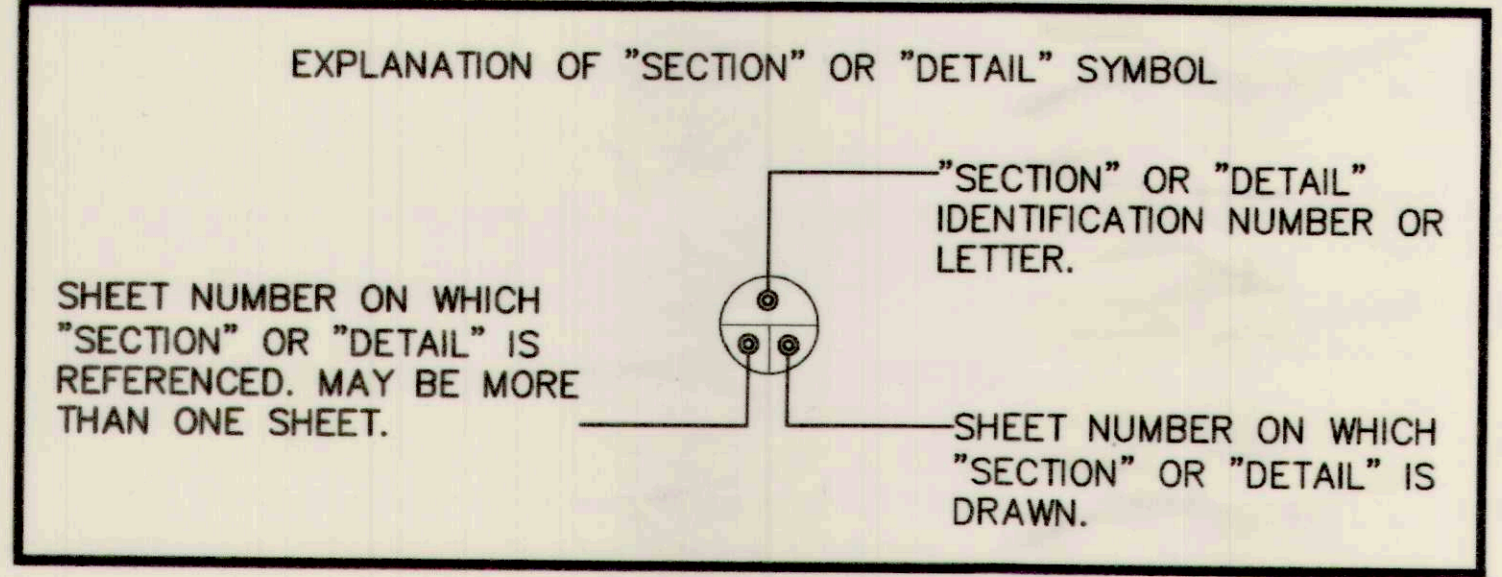


SHEET INDEX:

1	TITLE SHEET
2	LEGEND & GENERAL NOTES
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4	INTERMEDIATE GRADING PLAN
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6	GENERAL DETAILS I
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SENSITIVE AREA NOTICE

THE STREAM BUFFERS SHOWN HEREON ARE ESTABLISHED PURSUANT TO THE REQUIREMENTS OF THE WASHINGTON COUNTY SUBDIVISION ORDINANCE, ARTICLE IV, SECTION 409. IN AN EFFORT TO PRESERVE OR IMPROVE WATER QUALITY, THE PROPERTY OWNER IS REQUIRED TO ESTABLISH AND THEREAFTER MAINTAIN IN PERPETUITY VEGETATIVE GROUND COVER IN ACCORDANCE WITH URBAN BEST MANAGEMENT PRACTICES RECOMMENDED BY THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT. NO PERMANENT STRUCTURES OR CONSTRUCTION ARE PERMITTED WITHIN THE STREAM BUFFER EXCEPT THOSE DESIGNED TO IMPROVE WATER QUALITY OR FLOW AS APPROVED BY THE WASHINGTON COUNTY PLANNING COMMISSION IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS, LAWS, AND POLICIES. NO SEPTIC SYSTEMS SHALL BE CONSTRUCTED WITHIN THE BUFFER NOR SHALL ANY RESERVE AREA BE ESTABLISHED WITHIN THE BUFFER.



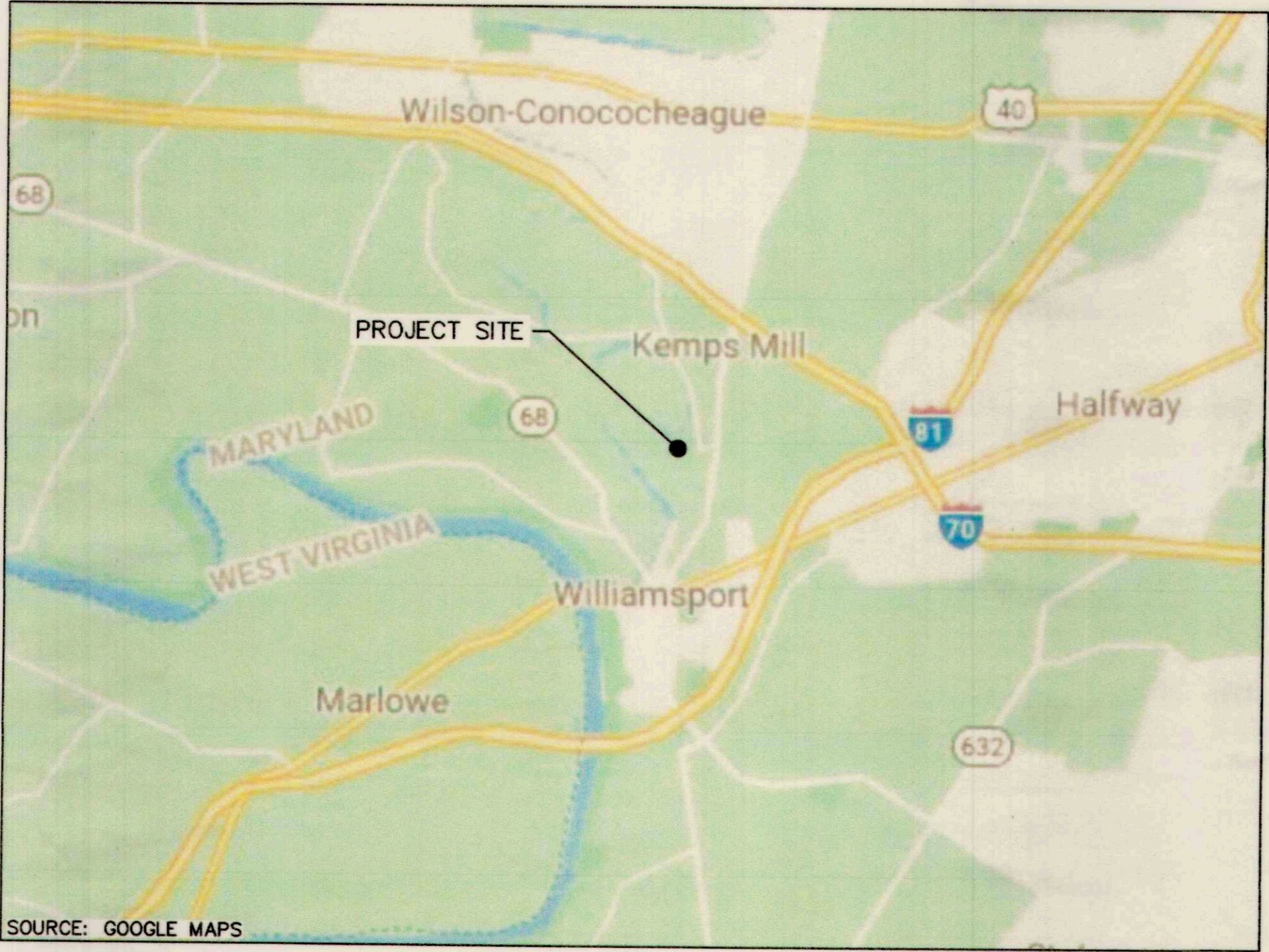
GENERAL NOTES:

- ALL GRADING FOR THIS PROJECT SHALL BE THE FULL RESPONSIBILITY OF THE PROPERTY OWNER.
- THERE IS A 10' WIDE DRAINAGE AND UTILITIES EASEMENT ALONG ALL FRONT LOT LINES AND AN 8' WIDE DRAINAGE AND UTILITIES EASEMENT ALONG ALL SIDE AND REAR LOT LINES HEREBY RESERVED UNLESS OTHERWISE SHOWN HEREON.
- A PUBLIC WORKS AGREEMENT AND PERFORMANCE SECURITY WILL BE REQUIRED FOR ALL IMPROVEMENTS WITHIN THE COUNTY RIGHT-OF-WAY THAT ARE NOT OTHERWISE REGULATED UNDER A UTILITY PERMIT OR ENTRANCE PERMIT.
- A UTILITY PERMIT WILL BE REQUIRED FOR ANY PROPOSED UTILITY WORK LOCATED WITHIN THE COUNTY RIGHT-OF-WAY.
- A COMPLETE SET OF APPROVED PLANS AND A COPY OF THE GRADING PERMIT MUST BE ON SITE AND AVAILABLE FOR USE BY THE INSPECTOR, OR OTHER REPRESENTATIVE OF WASHINGTON COUNTY DIVISION OF ENGINEERING & CONSTRUCTION.
- PLEASE BE ADVISED THAT ANY PROJECT WHICH CREATES A DISTURBANCE OF ONE (1) ACRE OR MORE WILL REQUIRE A NOTICE OF INTENT TO COMPLY WITH THE GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (NOI). THE NOI IS REQUIRED UNDER THE CLEAN WATER ACT AS STATED IN 40 CFR 122.26 AND CODE OF MARYLAND REGULATIONS COMAR 26.08.04.09A AND IS REGULATED BY THE MARYLAND DEPARTMENT OF ENVIRONMENT (MDE). THE NOI IS TO BE SUBMITTED WITH THE APPROPRIATE FEES DIRECTLY TO THE MDE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. NO LAND DISTURBING ACTIVITY THAT REQUIRES A GRADING PERMIT FROM WASHINGTON COUNTY SHOULD PROCEED UNTIL THE GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (MDR10) HAS BEEN ISSUED BY MDE.
- NO PERMANENT STRUCTURES (FENCES, SHEDS, PLAY EQUIPMENT, RETAINING WALLS, ETC.) SHALL BE PERMITTED WITHIN ANY STORM DRAINAGE EASEMENT EITHER SHOWN OR DESCRIBED ON THE FINAL PLAT OF SUBDIVISION.
- DEVELOPER/CONTRACTOR MUST CONTACT THE CERTIFYING ENGINEER AND THE COUNTY AT LEAST 5 DAYS PRIOR TO THE START OF CONSTRUCTION OF THE STORM WATER MANAGEMENT SYSTEM TO SCHEDULE AND COORDINATE INSPECTION TIME TABLES.
- IN CONFORMANCE WITH THE STORM WATER MANAGEMENT ORDINANCE OF WASHINGTON COUNTY, A PERFORMANCE SECURITY AND EXECUTED MAINTENANCE AND ACCESS AGREEMENT SHALL BE REQUIRED FROM THE DEVELOPER PRIOR TO ISSUANCE OF ANY BUILDING OR GRADING PERMIT FOR CONSTRUCTION PER THESE PLANS.

WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

11108 KEMPS MILL ROAD WILLIAMSPORT, MARYLAND 21795

PROJECT NUMBER: 20-163



VICINITY MAP
WASHINGTON COUNTY, MARYLAND

0 5000 10000 15000
SCALE IN FEET

CONTACT INFORMATION:

OWNER:

WASHINGTON COUNTY
DIVISION OF ENVIRONMENTAL MANAGEMENT
12630 EARTH CARE ROAD
HAGERSTOWN, MARYLAND 21740
(240) 313-2792
ATTN: DAVID A. MASON, P.E.

ENGINEER:

SCS ENGINEERS
11260 ROGER BACON DRIVE
SUITE 300
RESTON, VA 20190
(703) 471-6150
ATTN: MICHAEL GOUDREAU, P.E.
SEAN SULLIVAN, P.E.
PROJECT NO. 02220050.00

A STORMWATER QUALITY WAIVER HAS BEEN GRANTED BY WASHINGTON COUNTY PLAN REVIEW DEPARTMENT FOR THIS PROJECT BECAUSE THERE IS NO INCREASE IN IMPERVIOUS AREA AND THE EXISTING POND HAS BEEN SUBSTANTIALLY CONSTRUCTED UNDER PREVIOUS REGULATIONS.

THE OWNER/DEVELOPER OR REPRESENTATIVE SHALL CONTACT MDE OR ITS AGENT AT THE FOLLOWING STAGES OF THE PROJECT IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, GRADING PERMIT, OR BUILDING PERMIT.

- PRIOR TO THE START OF EARTH DISTURBANCE;
- UPON COMPLETION OF THE INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING;
- PRIOR TO THE START OF ANOTHER PHASE ON CONSTRUCTION OR OPENING OF ANOTHER GRADING UNIT; AND
- PRIOR TO THE REMOVAL OF EROSION AND SEDIMENT CONTROL PRACTICES

SITE ANALYSIS

PROPERTY MAP: 0048
GRID: 0013
PARCEL: 0706
DEED: 00972/00421

ELECTION DISTRICT: 1C

ZONING: ENVIRONMENTAL CONSERVATION (EC)

BUILDING RESTRICTION LINES:

FRONT: 50 FT
SIDE: 50 FT
REAR: 50 FT
MIN. LOT AREA: N/A
MIN. LOT WIDTH: N/A

HOURS OF OPERATION - CLOSED

HOURS OF WORK CONSTRUCTION - 7:00 AM TO 5:00 PM

FUNCTIONAL DESCRIPTION - CLOSED RUBBLE LANDFILL

EXCISE TAX USE DESIGNATION - N/A

SIZE OF PROPOSED BUILDING ADDITION - N/A

SQUARE FOOTAGE OF NEW CONSTRUCTION SUBJECT TO EXCISE TAX - N/A

PURPOSE OF PLAN - TO CAP THE CLOSED LANDFILL WITH A GEOMEMBRANE CAPPING SYSTEM

TOTAL NEW DISTURBED AREA - THE PROJECT AREA IS APPROXIMATELY 8.27 ACRES

PROPOSED BUILDING HEIGHT - N/A

SOLID WASTE DISPOSAL - N/A

WATER - PUBLIC WATER

SEWER - PUBLIC SEWER

FREIGHT AND DELIVERY REQUIREMENTS - N/A

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17650, EXPIRATION DATE: JAN 6, 2024.



DATE	12/13/21
REVISION	
NO.	1
REVISED PER COMMENTS RECEIVED	

SHEET TITLE	TITLE SHEET
PROJECT TITLE	WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

WASHINGTON COUNTY DIVISION OF ENVIRONMENTAL MANAGEMENT
12630 EARTH CARE ROAD
HAGERSTOWN, MARYLAND 21740

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
11260 ROGER BACON DRIVE - RESTON, VA 20190
PH. (703) 471-6150 FAX. (703) 471-6876

CADD FILE:
DATE: MAY 2021
SCALE: AS SHOWN
DRAWING NO. 1 of 14

APPROVED
WASHINGTON COUNTY DIVISION OF ENGINEERING & CONSTRUCTION
PLAN REVIEW & PERMITTING
Signature: Scott Hilla
Date: 5/10/22

WASHINGTON COUNTY SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL
By: Eunice Wang
Date: 5/13/22

(PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL)

DISTURBED AREA QUANTITIES

The total area to be disturbed shown on these plans has been determined to be approximately 8.27± acres and the total amount of excavation and fill as shown on these plans has been computed to be approximately 1,800± cubic yards of excavation and 17,900± cubic yards of fill.

OWNER/DEVELOPER CERTIFICATION

I/we certify all parties responsible for clearing, grading, construction, and/or development will be done pursuant to this plan and responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment approved training program for the control of soil erosion and sediment.

Date: 4-21-22
Printed Name: Mark D. Brackshaw
Signature: Mark D. Brackshaw

ENGINEER/ARCHITECT DESIGN CERTIFICATION

I hereby certify this plan for soil erosion and sediment control and pond construction has been designed in accordance with local ordinances, COMAR 26.17.01.07, Maryland Standards and Specifications for Soil Erosion and Sediment Control, and meets the Maryland Pond Standard 378.

Date: 04/20/2022
Reg. No.: 17650
Signature: Michael Goudreau

ENGINEER/ARCHITECT DESIGN CERTIFICATION

I hereby certify this plan for soil erosion and sediment control has been designed in accordance with local ordinances, COMAR 26.17.01.07, and Maryland Standards and Specifications for Soil Erosion and Sediment Control.

Date: 04/20/2022
Reg. No.: 17650
Signature: Michael Goudreau

SP-21-011

LEGEND	
	EXISTING INTERMEDIATE CONTOUR
	EXISTING INDEX CONTOUR
	EXISTING FENCE LINE
	EXISTING ROAD
	EXISTING STORM SEWER
	EXISTING PIEZOMETER
	EXISTING MONITORING WELL
	EXISTING CONTROL POINT
	EXISTING LEACHATE FORCEMAIN
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED STORM SEWER
	PROPOSED PASSIVE LFG VENT
	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED INDEX CONTOUR
	CONSTRUCTION ENTRANCE
	INLET PROTECTION
	PERMANENT SEEDING
	SMARTFENCE 42
	PRE-DEVELOPMENT DRAINAGE DIVIDE
	POST-DEVELOPMENT DRAINAGE DIVIDE

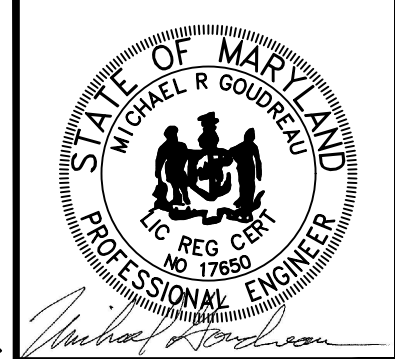
NOTES:

1. EXISTING DATA SHOWN HEREON HAS BEEN REPRODUCED FROM DRAWINGS PROVIDED TO SCS ENGINEERS FROM TRIAD, AND DOES NOT NECESSARILY REPRESENT AS-BUILT CONDITIONS, AND IS PROVIDED FOR INFORMATION ONLY.
2. THE FIELD RUN SURVEY PERFORMED BY TRIAD ENGINEERING, INC., WAS PERFORMED ON NOVEMBER 18, 2020.
3. EXISTING DATA SHOWN HEREON IS IN THE NAD83 MARYLAND STATE PLANE COORDINATE SYSTEM, AND THE NAVD88 VERTICAL DATUM.
4. LOCATIONS OF EXISTING UTILITIES ALONG OR ACROSS PROPOSED PROJECT SITE ARE NOT NECESSARILY SHOWN ON THESE PLANS, AND WHERE SHOWN ARE ONLY APPROXIMATELY ACCURATE AND NOT NECESSARILY SURVEY LOCATED.
5. CONTRACTOR SHALL LOCATE UTILITIES AND OTHER EXISTING SITE FEATURES PRIOR TO BEGINNING CONSTRUCTION. UTILITIES AND SITE FEATURES DAMAGED BY THE CONTRACTOR DUE TO NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
6. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON JOB SITE PRIOR TO COMMENCING WITH WORK. SPECIAL CARE SHALL BE GIVEN TO SITE LAYOUT THEREON. IN THE EVENT THE CONTRACTOR DISCOVERS AN ERROR, OMISSION, OR ANY OTHER POSSIBLE DISCREPANCY BETWEEN FIELD CONDITIONS AND DRAWINGS OR SPECIFICATIONS, NOTIFICATION TO ENGINEER SHALL BE IMMEDIATELY MADE PRIOR TO PROCEEDING WITH WORK.
7. CONTRACTOR SHALL REPAIR AT THEIR EXPENSE, ANY GROUNDWATER MONITORING WELLS, LANDFILL GAS MONITORING PROBES, UTILITIES, ETC., THAT ARE DAMAGED DURING CONSTRUCTION.
8. THE PROJECT SITE IS ZONED EC, AND THE TAX MAP ID NUMBER IS M.0048, P.0706. THE PROPERTY AREA IS 84.9 ACRES.

GENERAL NOTES

1. WORK IN THIS PROJECT SHALL CONFORM TO THE LATEST EDITIONS OF THE MARYLAND EROSION AND SEDIMENT CONTROL HANDBOOK, THE MARYLAND STORMWATER MANAGEMENT HANDBOOK, IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS OR PLANS, THE MOST STRINGENT SHALL GOVERN.
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, REPAIRED WHEN AND AS NECESSARY AND SHALL BE INSPECTED WITHIN 24 HOURS OF EACH RAINFALL EVENT. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO MEET SOIL CONSERVATION DISTRICT REQUIREMENTS.
3. ALL DRAIN INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.
4. WHEN THE CRUSHED STONE CONSTRUCTION ENTRANCE HAS BEEN COVERED WITH SOIL OR HAS BEEN PUSHED INTO THE SOIL BY CONSTRUCTION TRAFFIC, IT SHALL BE REPLACED WITH A DEPTH OF STONE EQUAL TO THAT OF ORIGINAL APPLICATION.
5. THE LOCATION OF EXISTING UTILITIES AS SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES THAT LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ALL EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION CALL MISS UTILITY 1 (800) 552-7001.
6. ALL MATERIALS USED FOR FILL OR BACKFILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS OR ANY OTHER NON-COMPACTABLE SOIL TYPE MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE.
7. MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURES OR IN UTILITY TRENCHES OR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AS SET OUT IN ASTM STANDARD D-698. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT THE RESULT OF THE PROCTOR TEST TO THE COUNTY'S ON-SITE INSPECTOR TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IN REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY.
8. CERTIFICATIONS FOR MATERIALS INCLUDING, BUT NOT LIMITED TO STONE, CONCRETE, PIPES, PRECAST UNITS, HANDRAILS, STABILIZATION MATS, TRAFFIC SIGNAL ITEMS, MUST BE PROVIDED TO THE COUNTY'S ON-SITE INSPECTOR AND APPROVED BY THE INSPECTOR PRIOR TO INSTALLATION. SEE INSPECTOR FOR MATERIALS CERTIFICATION CHECKLIST.
9. EMBANKMENT FILL AND TRENCH BACKFILL SHALL BE PLACED IN LIFTS AT A MAXIMUM UNCOMPACTED DEPTH OF 8-INCHES AND 6-INCHES, RESPECTIVELY. DENSITY TESTS SHALL BE CONDUCTED AT THE FOLLOWING MINIMUM FREQUENCIES:
(A) EMBANKMENT FOR ROADS, STREETS, DAMS, ETC.: ONE TEST PER LIFT PER 10,000 SQUARE FEET OF LIFT.
(B) BACK-FILL AROUND STRUCTURES AND IN TRENCHES: ONE TEST PER LIFT PER 500 LINEAR FEET OF TRENCH..
10. ALL EXCAVATIONS, INCLUDING TRENCHES, SHALL BE KEPT DRY TO PROTECT THEIR INTEGRITY.
11. TEST RESULTS SHALL BE SUBMITTED TO THE DEPARTMENT OF SOLID WASTE. FAILURE TO CONDUCT DENSITY TESTS AND SUBMIT TEST RESULTS SHALL BE CAUSE FOR NONACCEPTANCE OF THE FACILITY. TESTS SHALL BE CONDUCTED AT THE COST OF THE CONTRACTOR.
12. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
13. NO ENVIRONMENTAL STUDIES HAVE BEEN CONDUCTED BY DEPARTMENT OF SOLID WASTE TO DETERMINE THE EXISTENCE OR LOCATION OF GROUND WATER, ROCK, OR OTHER NATURAL OR MAN-MADE FEATURES, EXCEPT AS SPECIFICALLY INDICATED.
14. THE CONTRACTOR SHALL NOTIFY THE APPLICABLE MUNICIPAL, COUNTY AND/OR STATE AUTHORITIES AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK WITHIN PUBLIC RIGHT(S)-OF-WAY; INCLUDING BUT NOT LIMITED TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND THE SOIL CONSERVATION DISTRICT.
15. THE CONTRACTOR SHALL VERIFY ALL SURFACE AND SUBSURFACE CONDITIONS (LOCATIONS AND ELEVATIONS) PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER BEFORE PROCEEDING IF THEY AFFECT THE DESIGN FEASIBILITY OF THE PROJECT. ANY DAMAGE TO FACILITIES, STRUCTURES, PAVEMENT, OR OTHER MAN-MADE ITEMS ON OR ADJACENT TO THE SITE OR NOT SPECIFICALLY INDICATED FOR THE DEMOLITION SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE LEGAL AND REGULATORY REQUIREMENTS. CONTRACTOR SHALL OBTAIN ANY BONDS REQUIRED BY COUNTY/STATE FOR WORK WITHIN COUNTY/STATE RIGHT(S)-OF-WAY.
17. ALL FOREST CONSERVATION ORDINANCE REQUIREMENTS WERE DONE DURING THE PHASE III PERMITTING PROCESS.
18. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE MONITORING WELLS AND GAS PROBES.

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17650, EXPIRATION DATE: JAN 6, 2024.



DATE	
REVISION	
NO.	

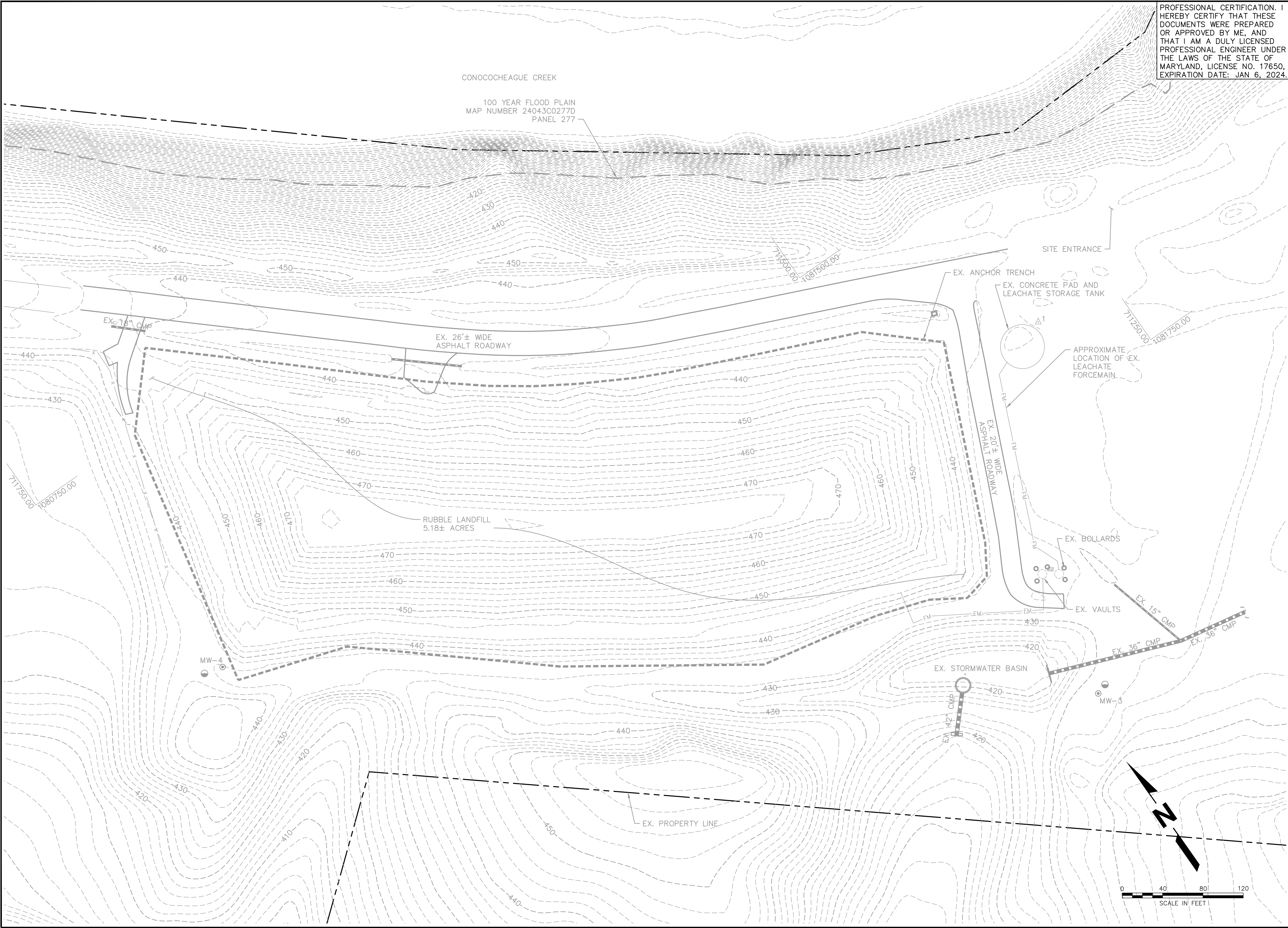
SHEET TITLE	LEGEND & GENERAL NOTES
PROJECT TITLE	WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

CLIENT	WASHINGTON COUNTY DIVISION OF ENVIRONMENTAL MANAGEMENT 12630 EARTH CARE ROAD HAGERSTOWN, MARYLAND 21740
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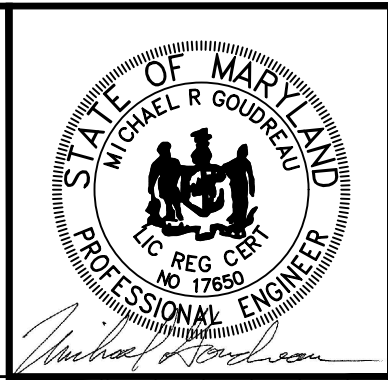
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 11260 ROGER BACON DRIVE - RESTON, VA 20190 PH. (703) 471-6150 FAX. (703) 471-6876	Q/A	BY:	
	APP.	BY:	MRC
PROJ. NO. 02220050.00	DWN.	BY:	SRS
DISK. BY:	CHK.	BY:	MRC
SRS			

CADD FILE:
DATE: MAY 2021
SCALE: NONE
DRAWING NO.
2 of 14

WASHINGTON COUNTY SURVEY CONTROL POINTS				
POINT ID	NORTHING	EASTING	ELEVATION	COMMENTS
1	711328.43	1081668.54	432.55	DISK RLF-1
2	712054.72	1080690.67	453.42	DISK RLF-2
5	711384.85	1082492.99	430.30	DISK SOFT
6	710726.58	1082024.74	437.19	DISK BALL



PROFESSIONAL CERTIFICATION. I
HEREBY CERTIFY THAT THESE
DOCUMENTS WERE PREPARED
OR APPROVED BY ME, AND
THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER
THE LAWS OF THE STATE OF
MARYLAND, LICENSE NO. 17650,
EXPIRATION DATE: JAN 6, 2024.



NO.	REVISION	DATE
1		
2		
3		
4		
5		

SHEET TITLE	EXISTING CONDITIONS
PROJECT TITLE	WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

CLIENT	WASHINGTON COUNTY DIVISION OF ENVIRONMENTAL MANAGEMENT 12630 EARTH CARE ROAD HAGERSTOWN, MARYLAND 21740
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SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 11260 ROGER BACON DRIVE - RESTON, VA 20190 PH. (703) 471-6150 FAX. (703) 471-6876	DATE BY: SRS CHK. BY: MRC APP. BY: MRC	Q/A RW BY:
PROJ. NO. 02220050.00 DSK. BY: SRS		

CADD FILE:	DATE: MAY 2021
SCALE: AS SHOWN	DRAWING NO. 3 of 14

NO.	REVISION	DATE
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△		
△		
△		
△		

SHEET TITLE	INTERMEDIATE GRADING PLAN
PROJECT TITLE	WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

CLIENT

**WASHINGTON COUNTY DIVISION OF
ENVIRONMENTAL MANAGEMENT**

12630 EARTH CARE ROAD
HAGERSTOWN, MARYLAND 21740

PROJ. NO.	DWN. BY:
002220050.00	SRS

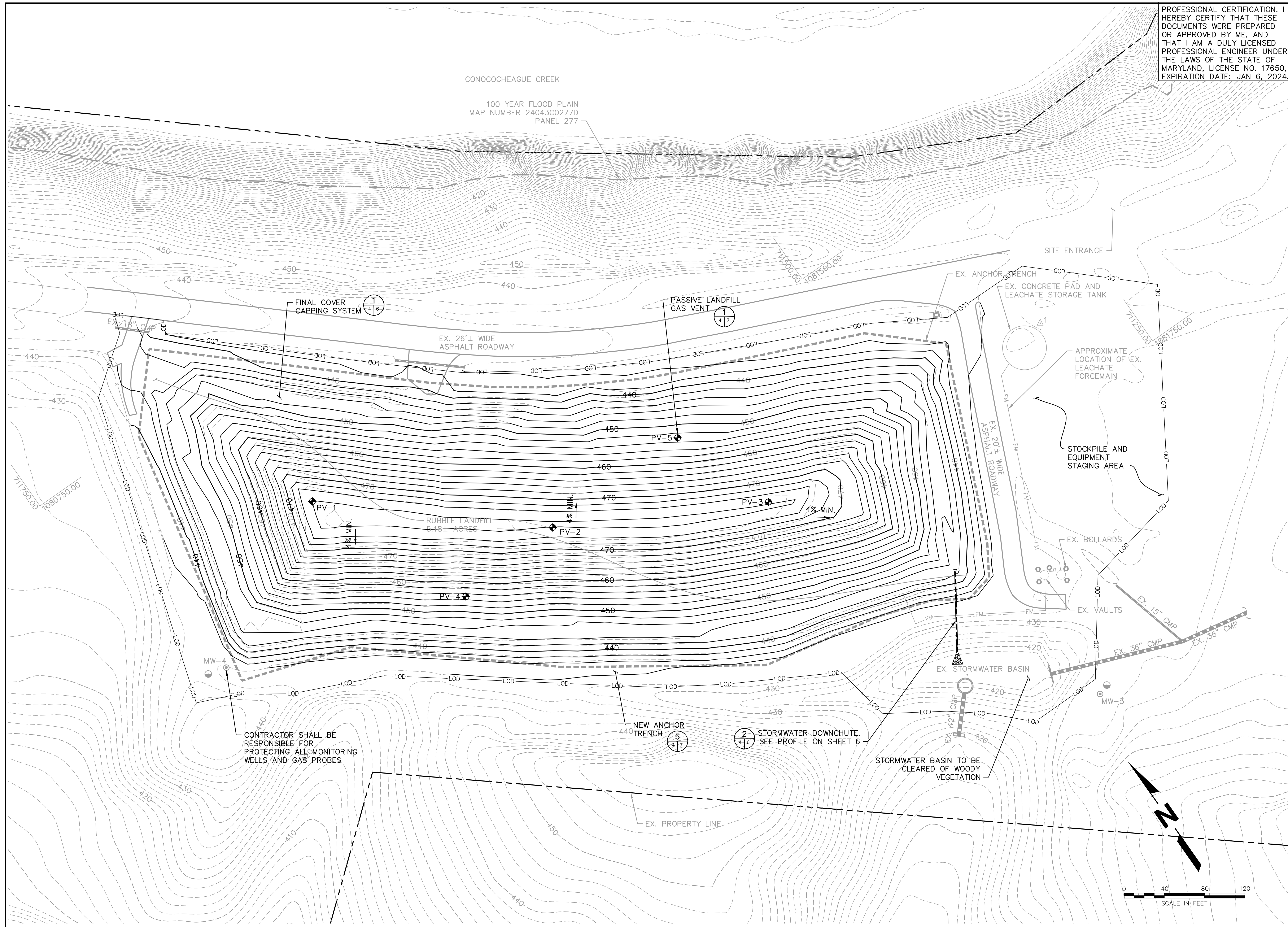
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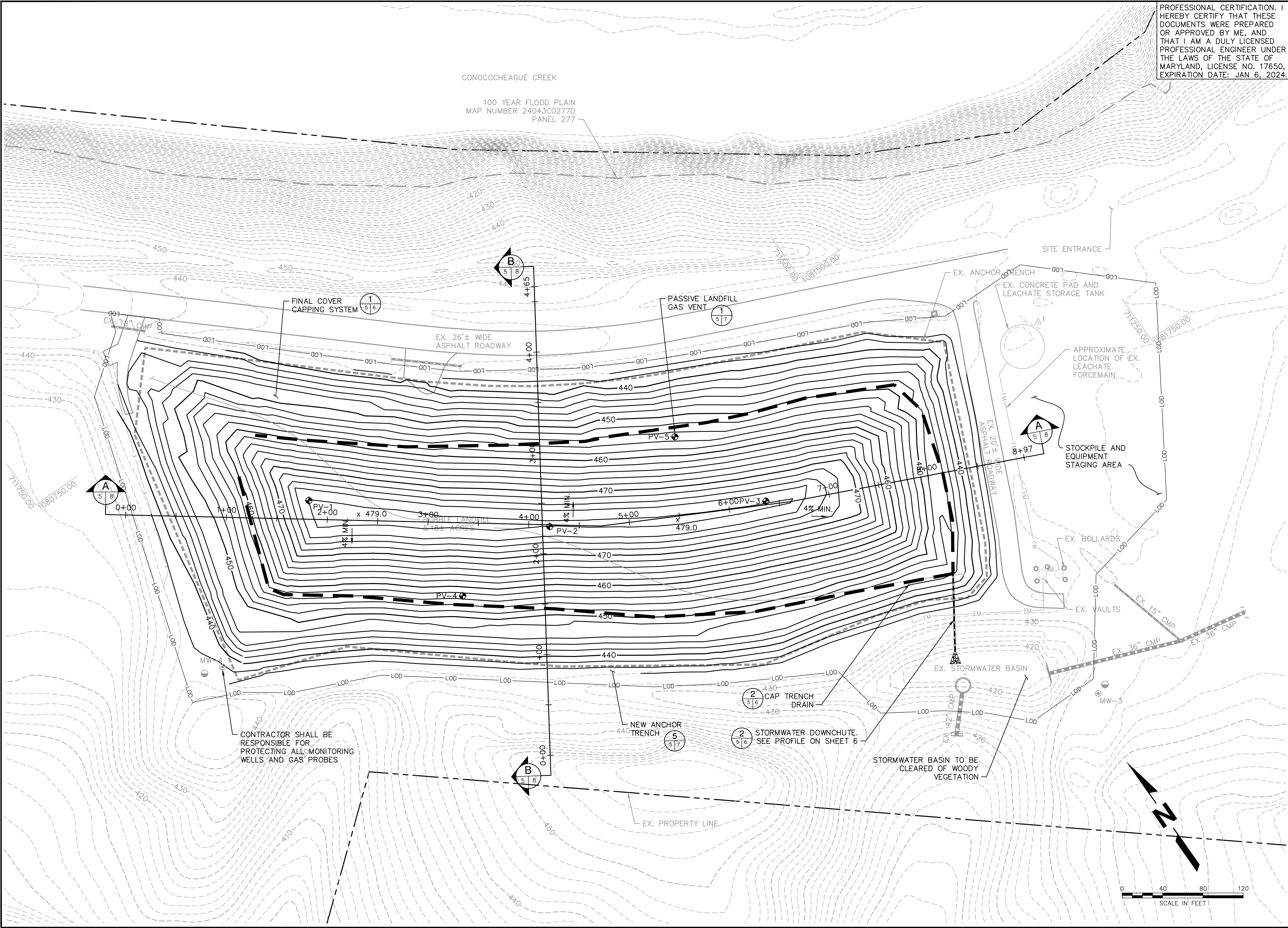
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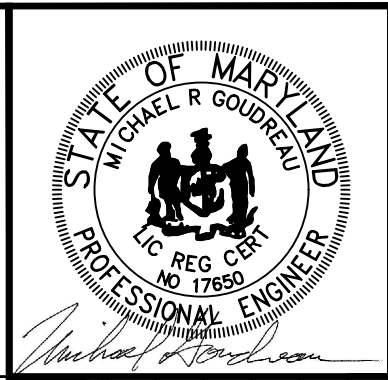
DRAWING NO.

4 of 14





PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17650, EXPIRATION DATE: JAN 6, 2024.



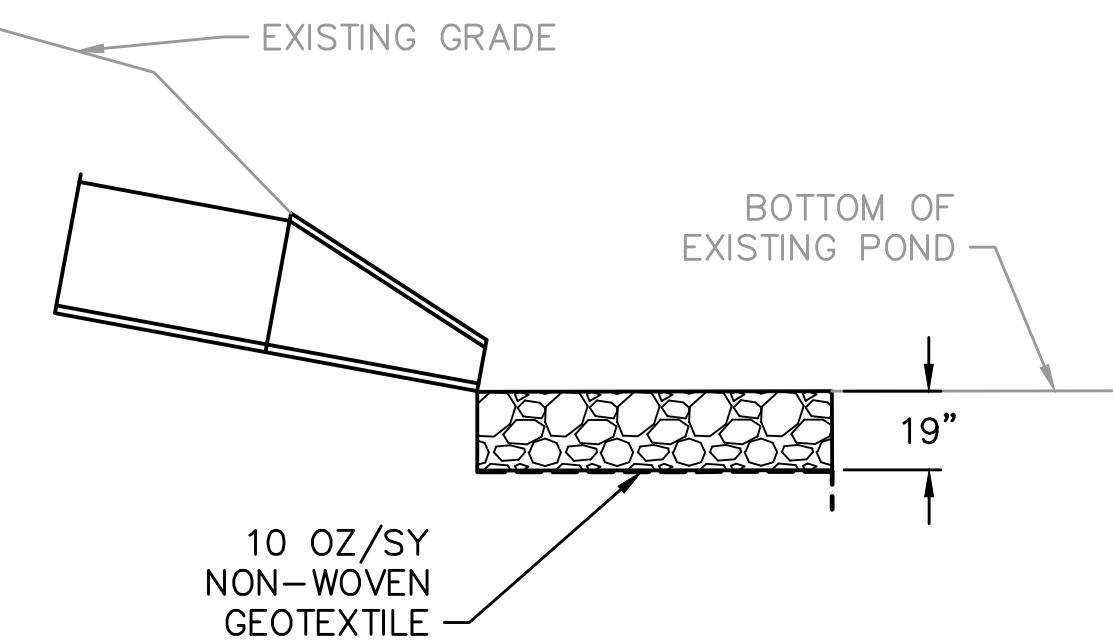
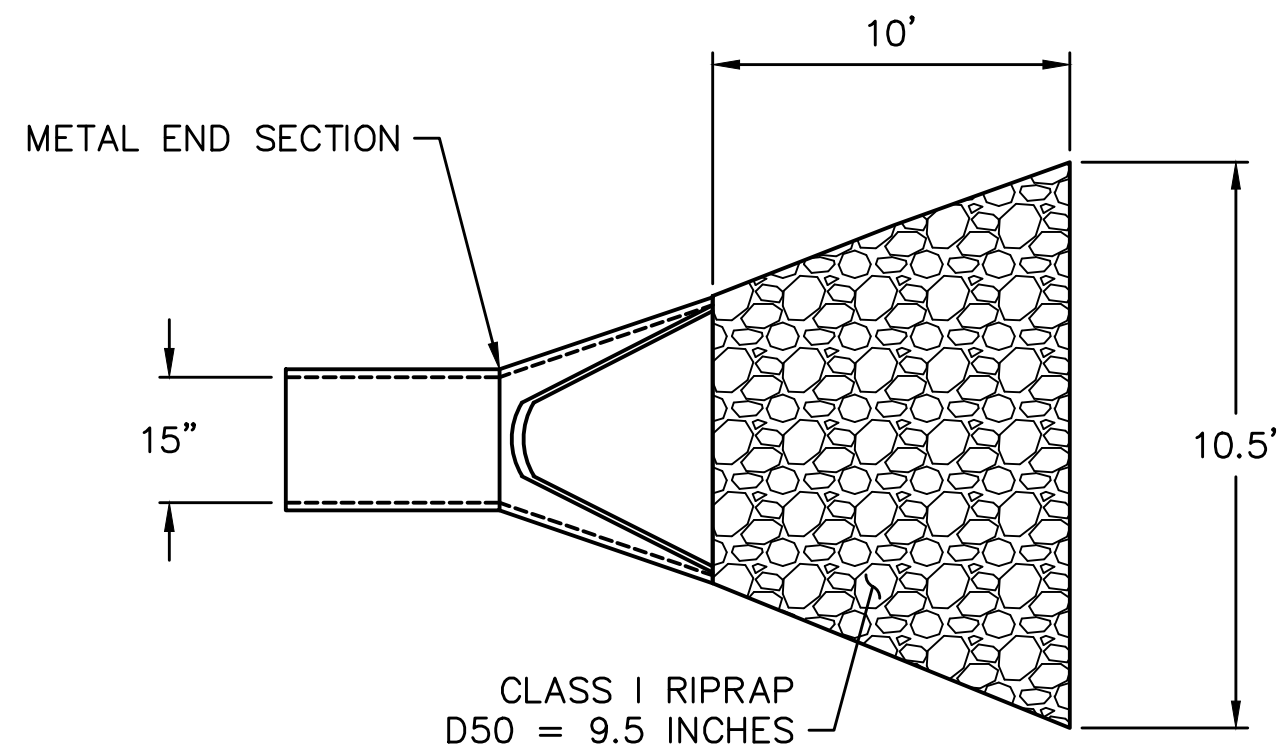
DATE	12/13/21
REVISION	
NO.	
REVISED PER	WCSO COMMENTS

SHEET TITLE	FINAL GRADING PLAN
PROJECT TITLE	WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

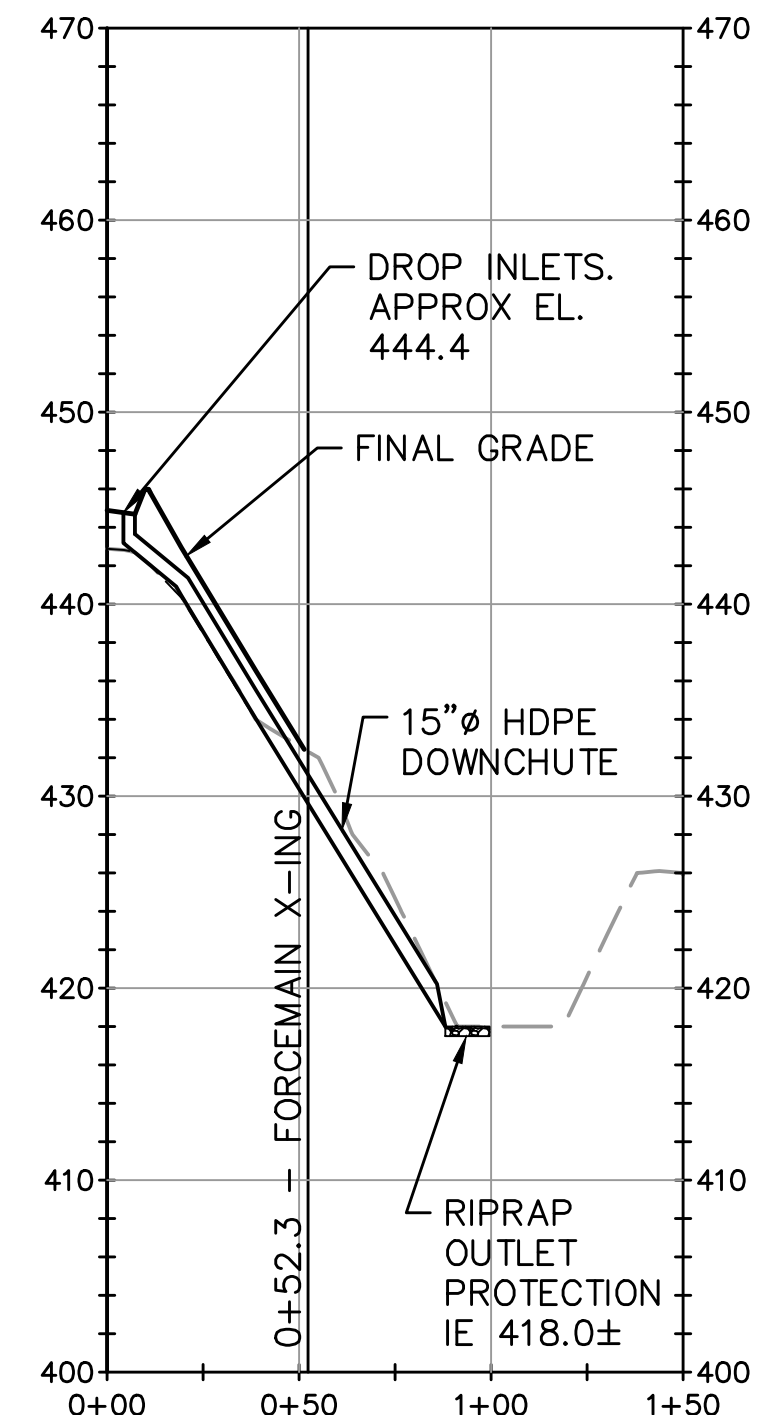
CLIENT	WASHINGTON COUNTY DIVISION OF ENVIRONMENTAL MANAGEMENT 12630 EARTH CARE ROAD HAGERSTOWN, MARYLAND 21740
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SCS ENGINEERS	STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 11260 ROGER BACON DRIVE - RESTON, VA 20190 PH. (703) 471-6150 FAX. (703) 471-6876
PROJ. NO.	02220050.00
DATE	02/22/2020
BY	SRS
CHECKED BY	SRS
APP. BY	MRC

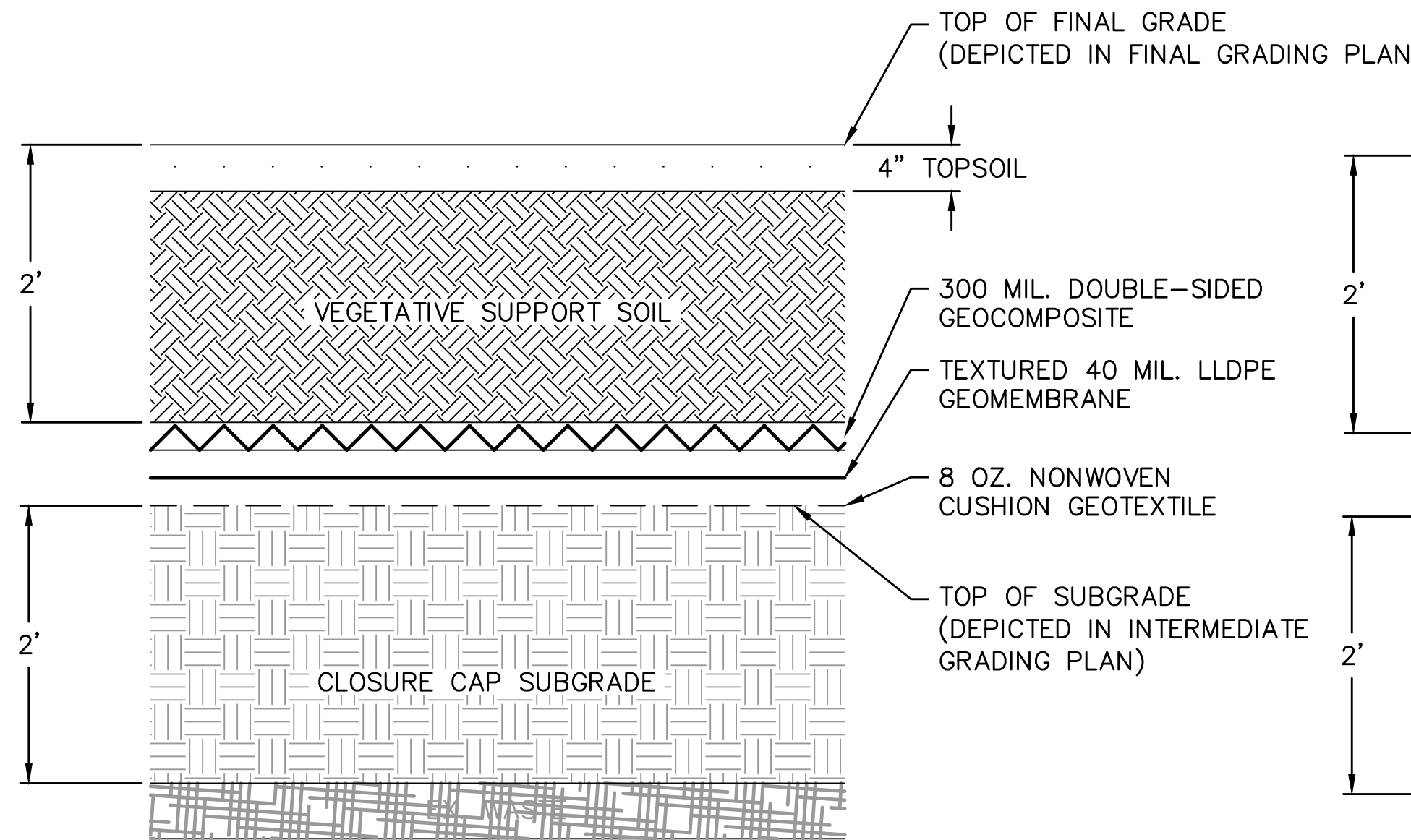
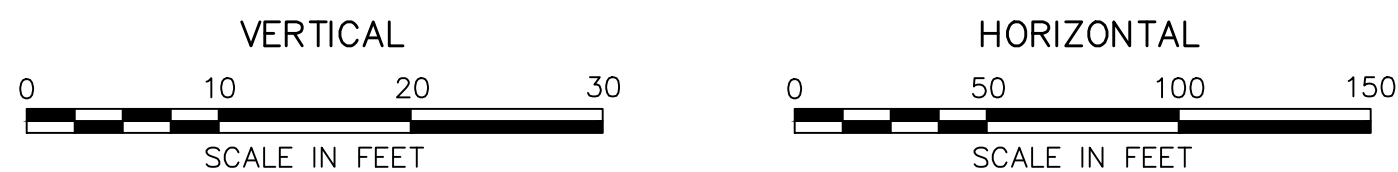
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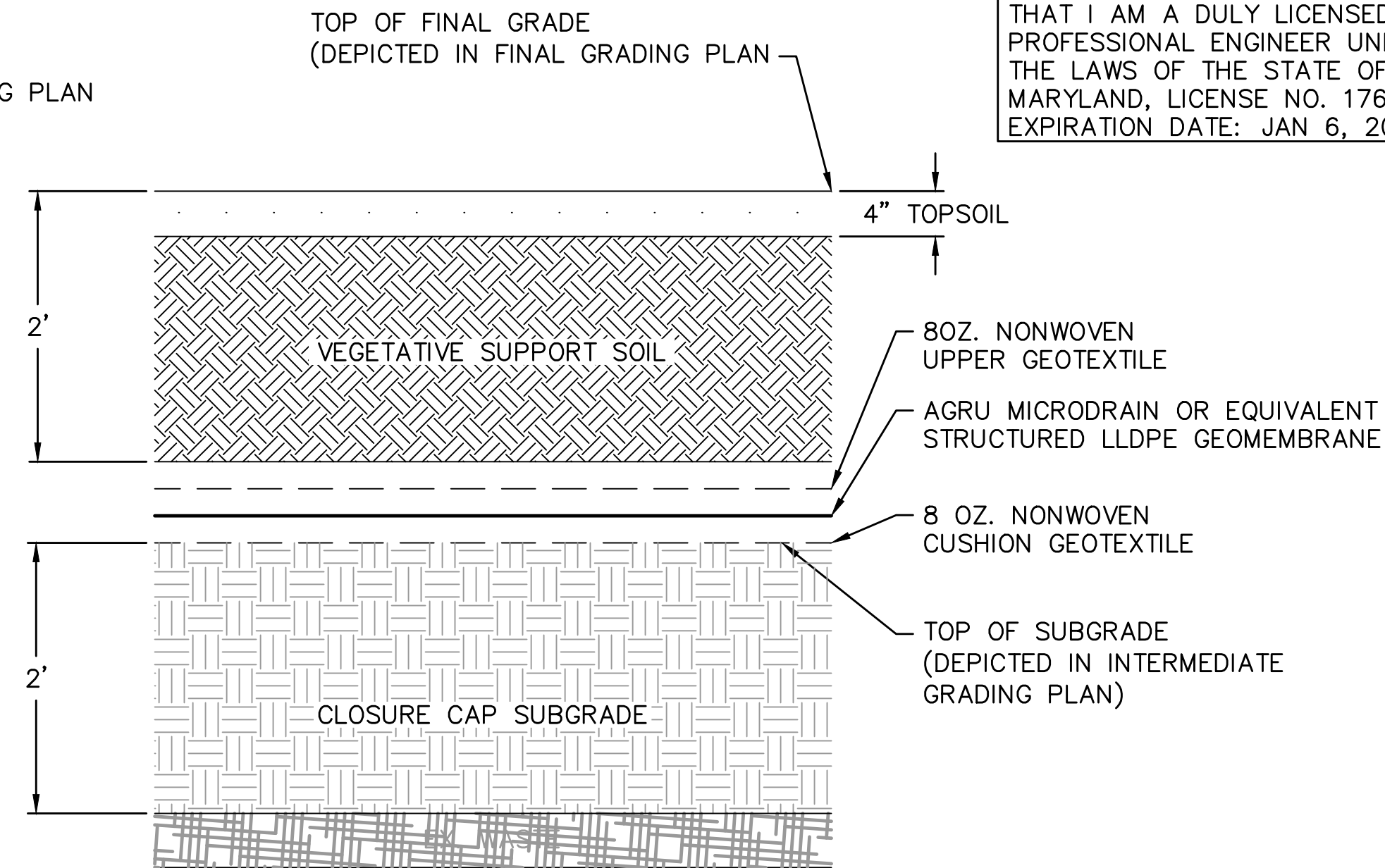
TYPICAL DOWNCHUTE OUTLET 3
NOT TO SCALE



STORMWATER DOWNCHUTE PROFILE

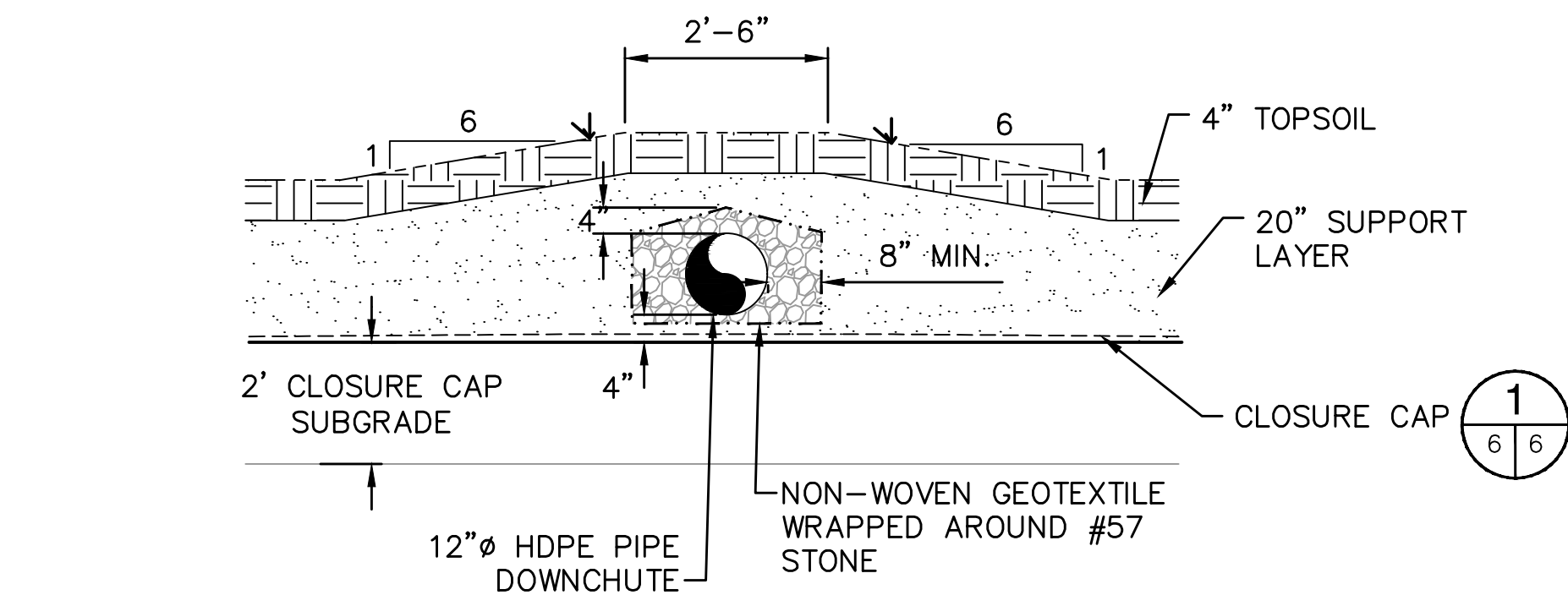


STANDARD

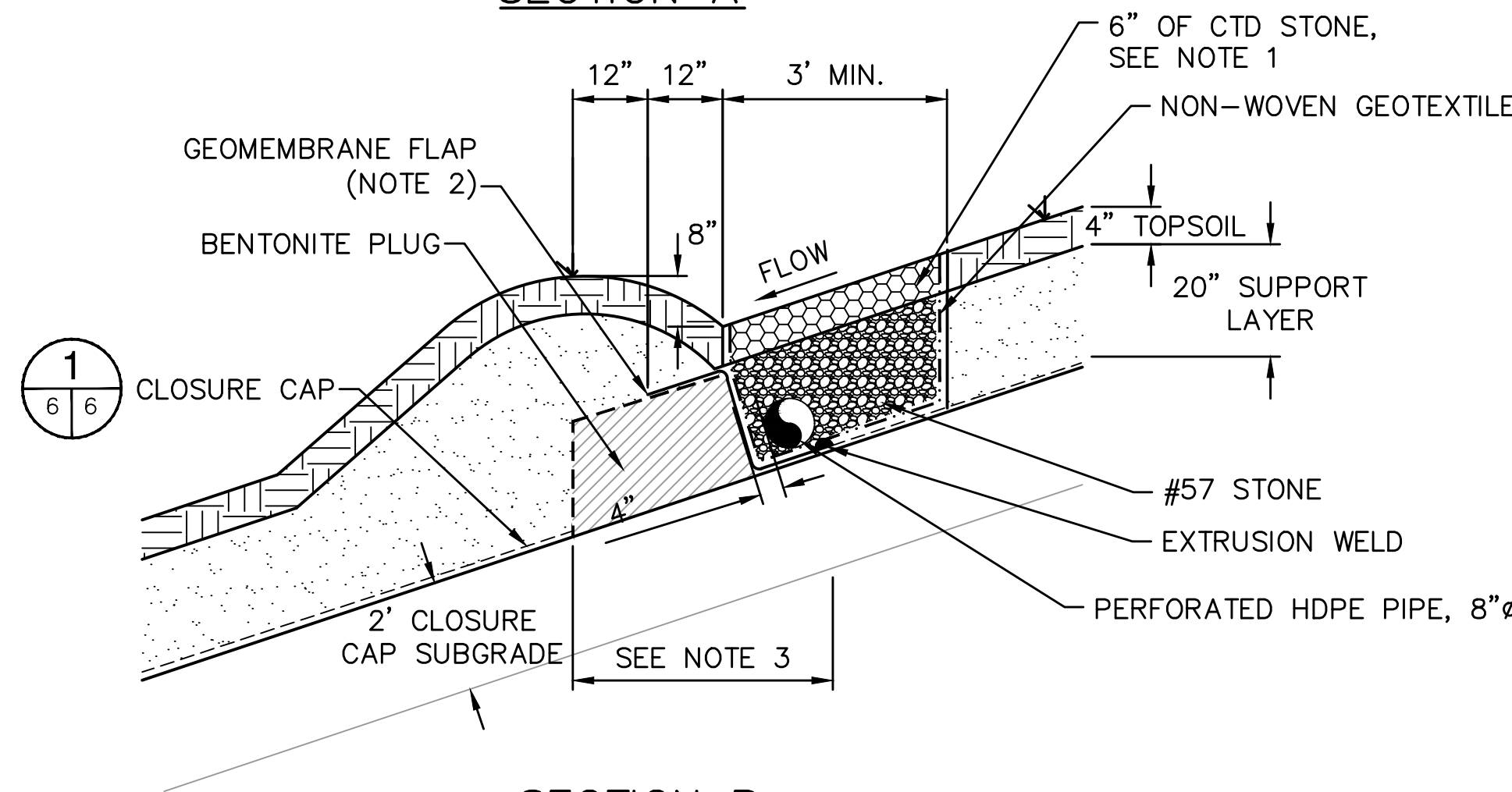


ALTERNATE

FINAL CAP AND COVER SYSTEM DETAIL 1
SCALE: 1" = 1' 4,5,6,7



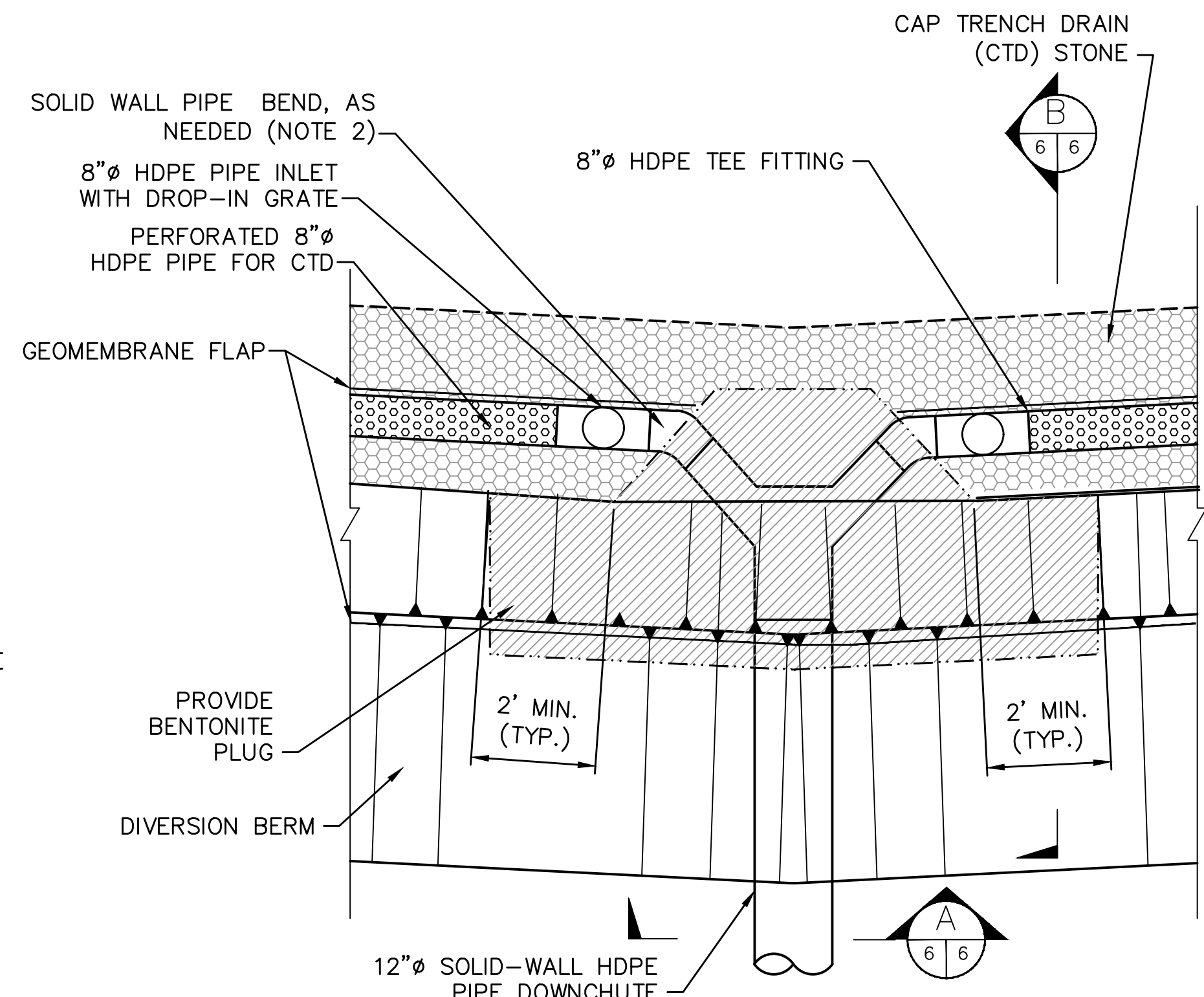
SECTION A



SECTION B

NOTES:

1. CTD STONE: D100=6", D50=3" (OR GABION STONE PER MDSA SECTION 901.05)
2. FLAP SHALL OVERLAP BENTONITE PLUG FOR 2' MIN. PRIOR TO PIPE DOWNCHUTE TRENCH, THEN CONTINUE ALONG THE ENTIRE LENGTH OF CTD.
3. THERE SHALL BE NO GDN (STANDARD CAP) OR UPPER GEOTEXTILE (ALTERNATE CAP) UNDER BENTONITE PLUG OR GEOMEMBRANE FLAP.

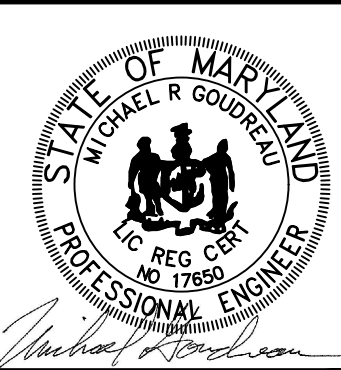


NOTES:

1. WHERE SHOWN ON PLAN, A SINGLE WYE CONNECTION SHALL BE PROVIDED.
2. PROVIDE STANDARD SOLID WALL BENDS TO DOWNCHUTE. ADJUST CURVATURE OF PERFORATED PIPE AS NEEDED.

TYPICAL DOWNCHUTE 2
NOT TO SCALE

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COMMENTS	

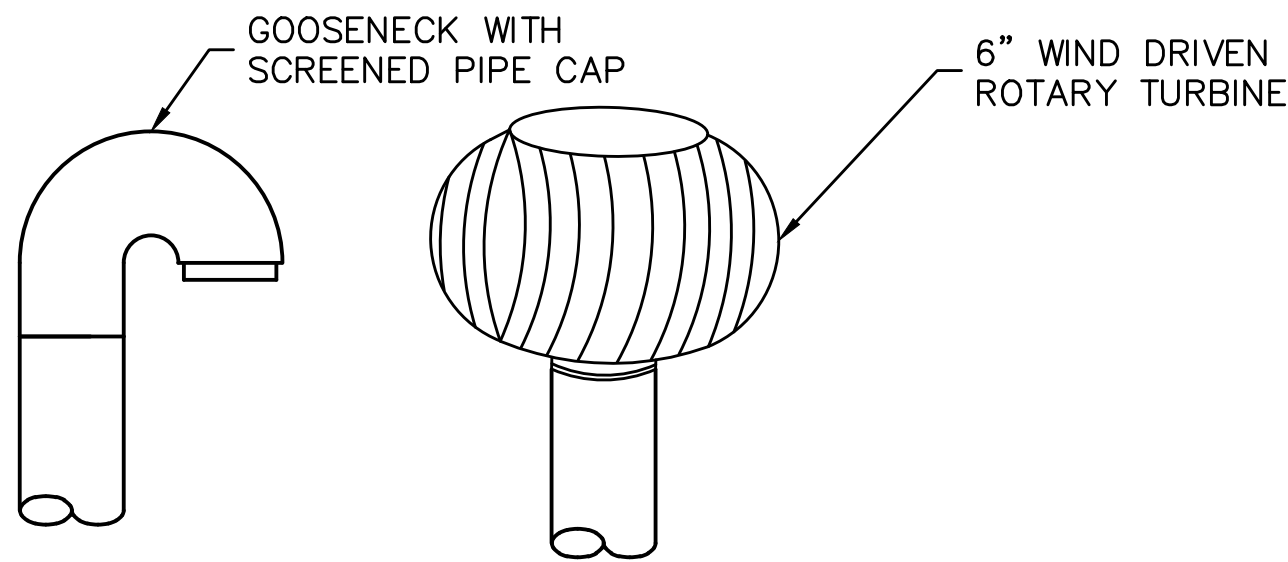
SHEET TITLE	GENERAL DETAILS I
PROJECT TITLE	WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

CLIENT	WASHINGTON COUNTY DIVISION OF ENVIRONMENTAL MANAGEMENT 12630 EARTH CARE ROAD HAGERSTOWN, MARYLAND 21740
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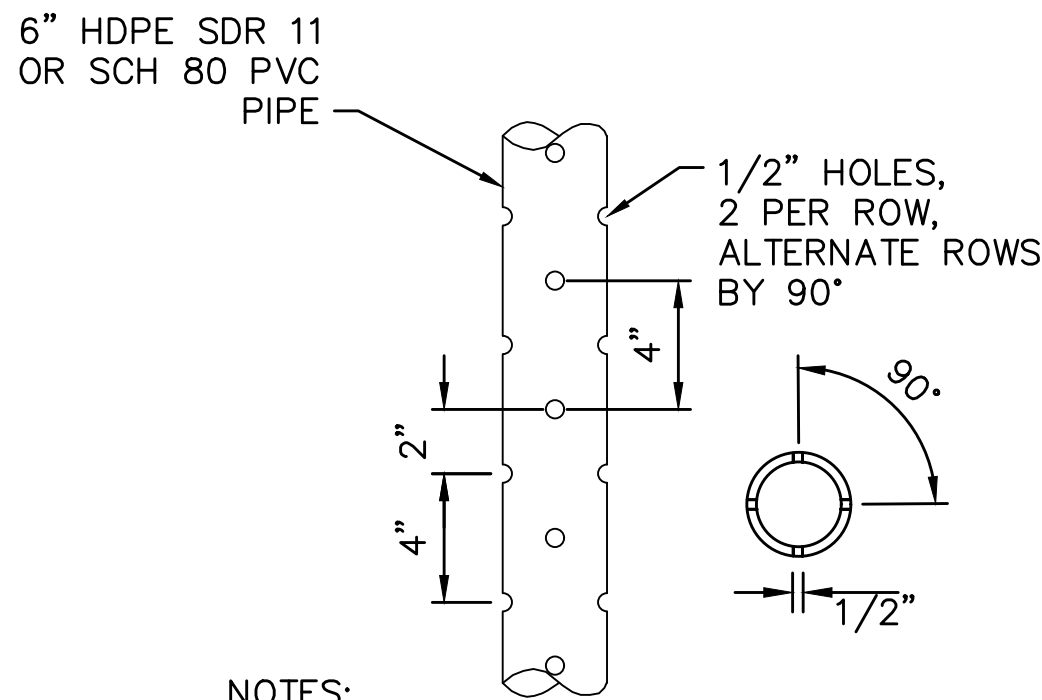
SCS ENGINEERS	STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 11260 ROGER BACON DRIVE - RESTON, VA 20190 PH. (703) 471-6150 FAX. (703) 471-6876
PROJ. NO.	02220050.00
DRW. BY:	SRS
CHK. BY:	MRC
APP. BY:	MRC
Q/A R/W BY:	

CADD FILE:	
DATE:	MAY 2021
SCALE:	AS SHOWN
DRAWING NO.	6 of 14

WELL I.D.	NORTHING (FT)	EASTING (FT)	APPROX. ELEVATION (FT)		BOREHOLE DEPTH (FT)	PIPE LENGTH (FT)			THICKNESS OF GRAVEL PACK (FT)
			GROUND SURFACE	BOTTOM OF BOREHOLE		PERFORATED	SOLID WALL	ABOVE GRADE RISER	
PV-1	711,598.33	1,080,974.40	477.00	467.00	10.00	5	8	3	6
PV-2	711,440.12	1,081,155.25	477.00	467.00	10.00	5	8	3	6
PV-3	711,337.87	1,081,345.35	477.00	467.00	10.00	5	8	3	6
PV-4	711,433.37	1,081,045.18	457.00	447.00	10.00	5	8	3	6
PV-5	711,441.92	1,081,308.05	461.00	451.00	10.00	5	8	3	6

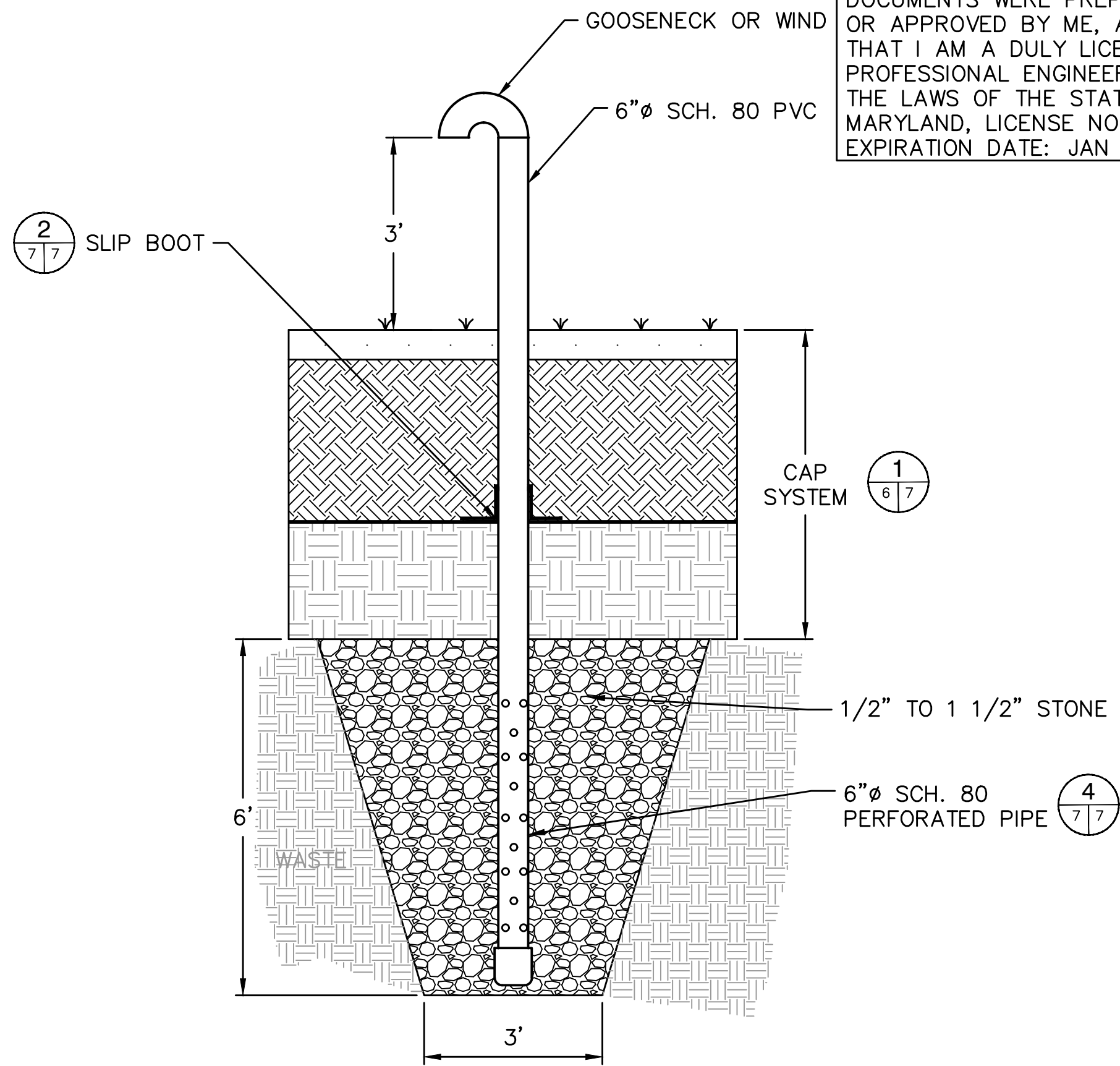


GOOSENECK AND WIND TURBINE DETAIL 3
NOT TO SCALE



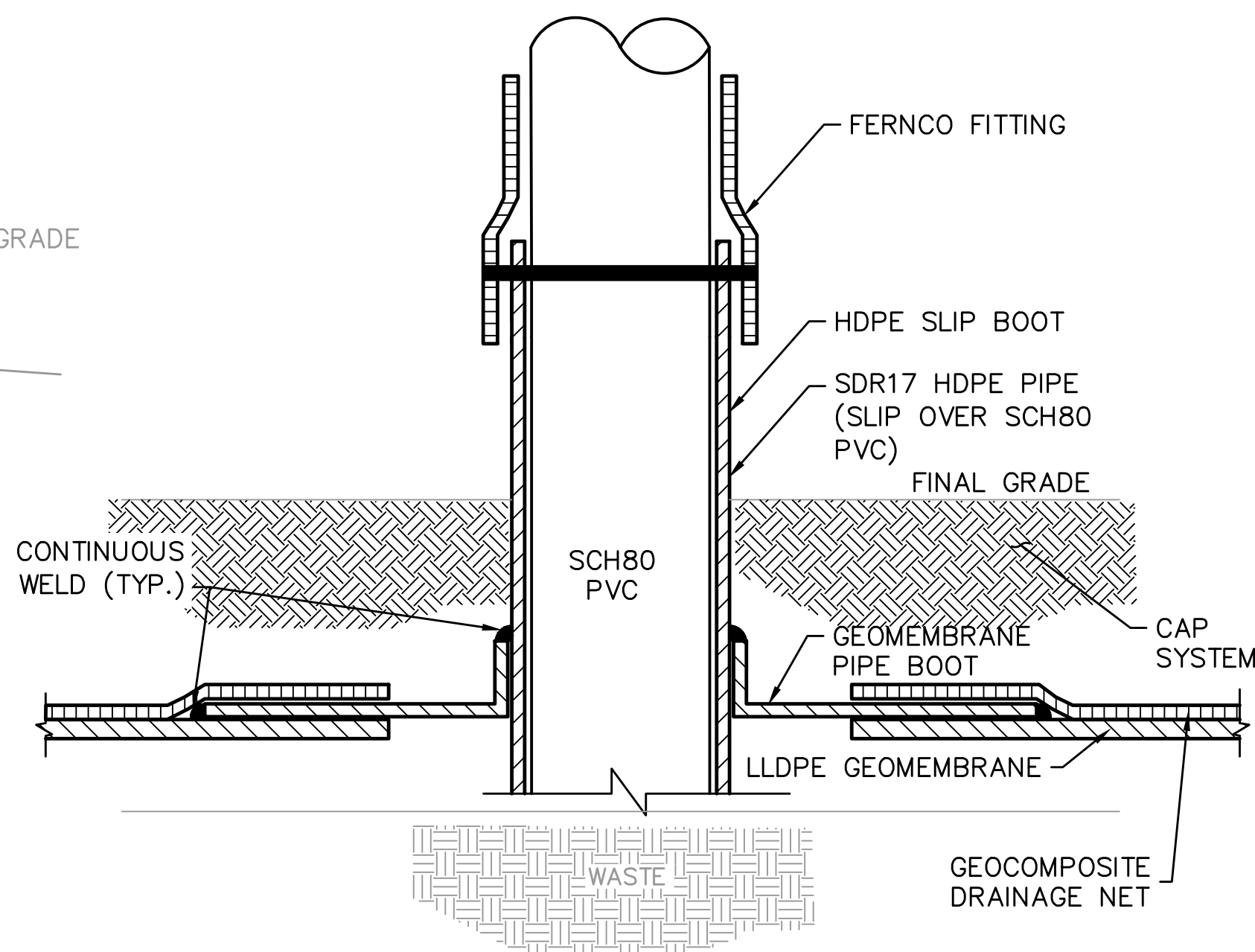
- NOTES:
1. PERFORATIONS SPACED 90° APART HORIZONTALLY.
 2. PERFORATIONS SPACED 4" APART VERTICALLY.
 3. 90° AND 270° ROWS STAGGERED 2" BELOW 0° AND 180° ROWS.

PERFORATED PIPE DETAIL 4
NOT TO SCALE

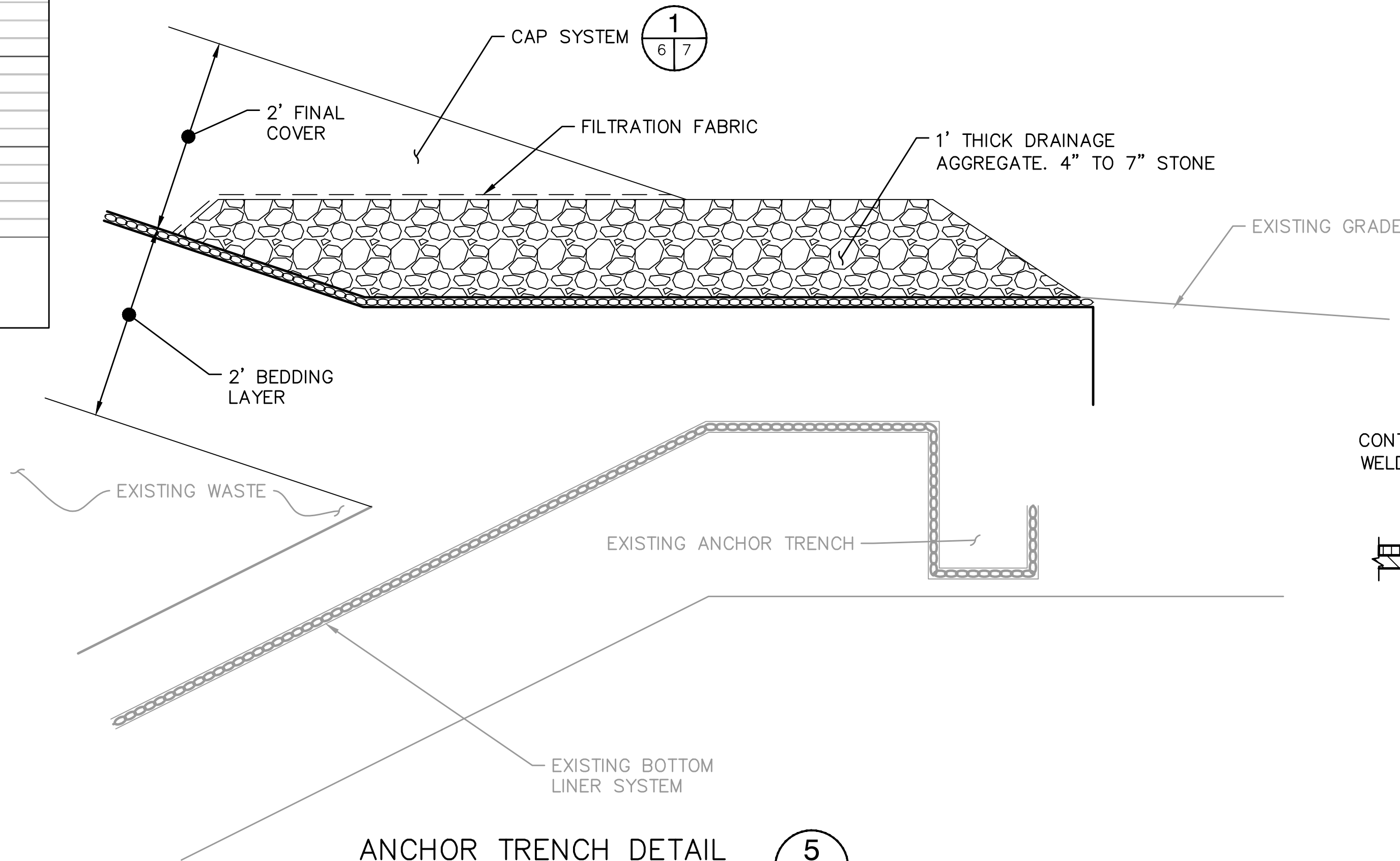


- NOTES:
1. PLACE BEAD OF SILICONE CAULK BETWEEN PIPE AND BOOT PRIOR TO BANDING.

LFG PASSIVE VENT DETAIL 1
NOT TO SCALE



TYPICAL HDPE SLIP BOOT DETAIL 2
NOT TO SCALE



ANCHOR TRENCH DETAIL 5
SCALE: 1" = 1'

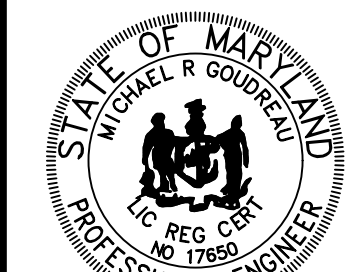
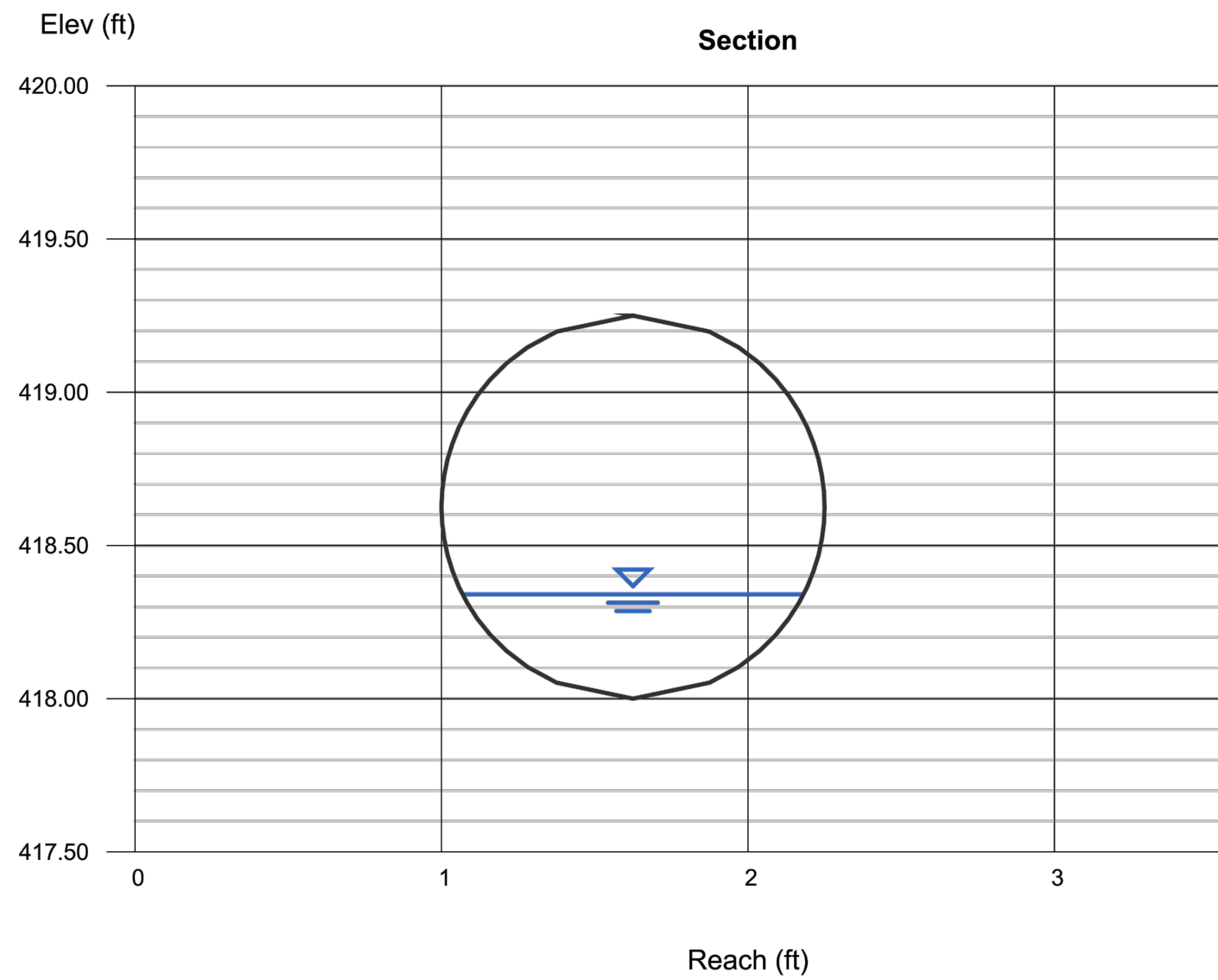
Channel Report

Hydralow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc.

Wednesday, Dec 22 2021

DOWNCHUTE

Circular		Highlighted	
Diameter (ft)	= 1.25	Depth (ft)	= 0.34
		Q (cfs)	= 5.730
		Area (sqft)	= 0.27
Invert Elev (ft)	= 418.00	Velocity (ft/s)	= 21.08
Slope (%)	= 31.52	Wetted Perim (ft)	= 1.37
N-Value	= 0.013	Crit Depth, Yc (ft)	= 0.97
		Top Width (ft)	= 1.11
		EGL (ft)	= 7.25
Calculations			
Compute by:	Known Q		
Known Q (cfs)	= 5.73		



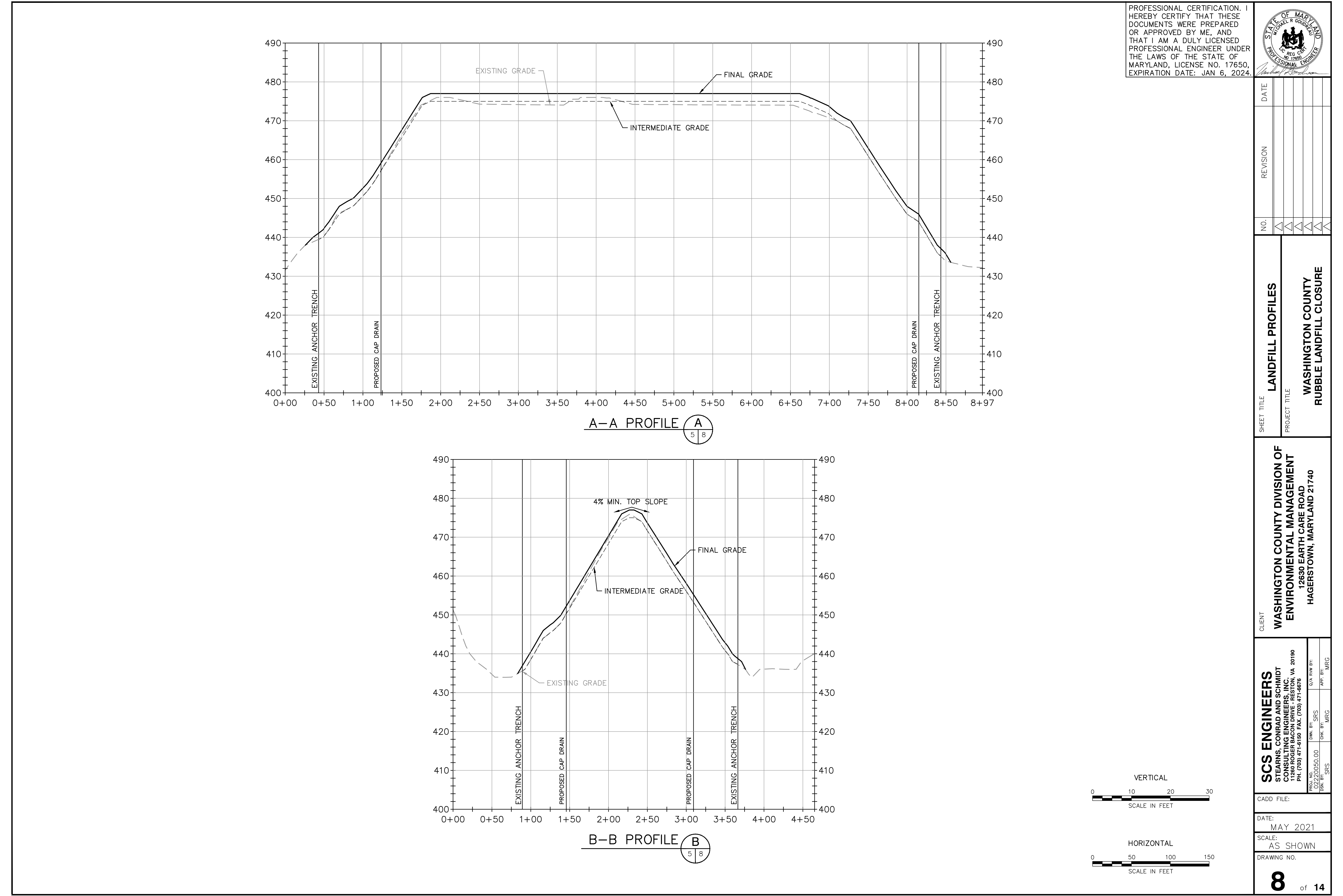
DATE	12/13/21
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SHEET TITLE	GENERAL DETAILS II
PROJECT TITLE	WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

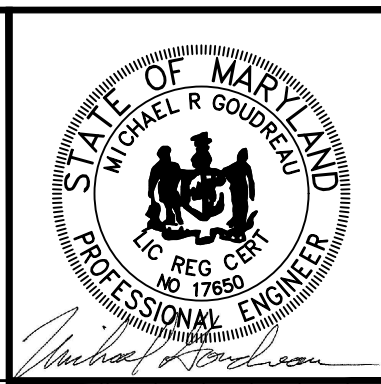
CLIENT	WASHINGTON COUNTY DIVISION OF ENVIRONMENTAL MANAGEMENT 12630 EARTH CARE ROAD HAGERSTOWN, MARYLAND 21740
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PROJ. NO.	02220050.00
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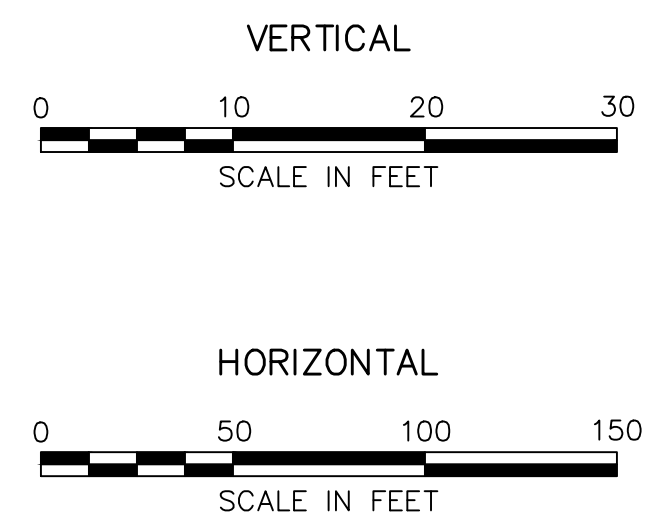
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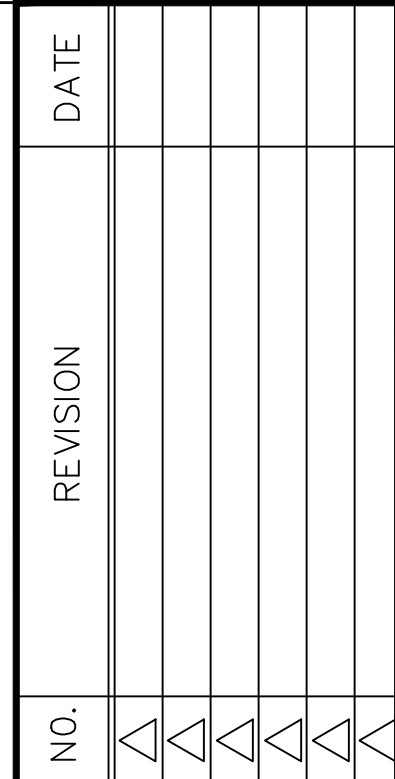
SHEET TITLE	PROJECT TITLE
LANDFILL PROFILES	WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

CLIENT
WASHINGTON COUNTY DIVISION OF ENVIRONMENTAL MANAGEMENT 12630 EARTH CARE ROAD HAGERSTOWN, MARYLAND 21740

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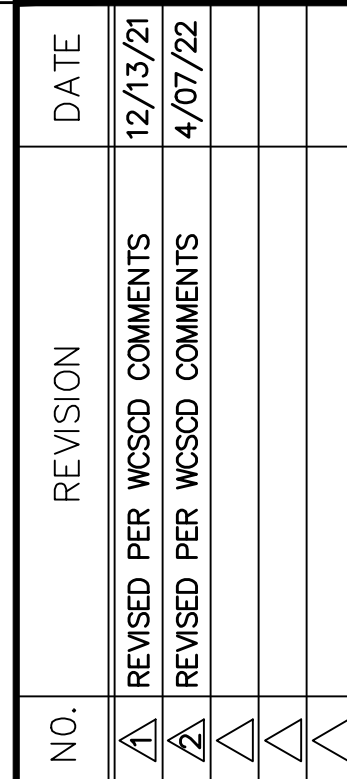
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WASHINGTON COUNTY DIVISION OF
ENVIRONMENTAL MANAGEMENT
12630 EARTH CARE ROAD
HAGERSTOWN, MARYLAND 21740

CADD FILE:
DATE: MAY 2021
SCALE: AS SHOWN
DRAWING NO. 9 of 14



SHEET TITLE	POST-DEVELOPMENT DRAINAGE DIVIDE
PROJECT TITLE	WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE

CLIENT

**WASHINGTON COUNTY DIVISION OF
ENVIRONMENTAL MANAGEMENT**

**12630 EARTH CARE ROAD
HAGERSTOWN, MARYLAND 21740**

PROJ. NO.	DWN. BY:	G/A R/W BY:
022220050.00	SRS	

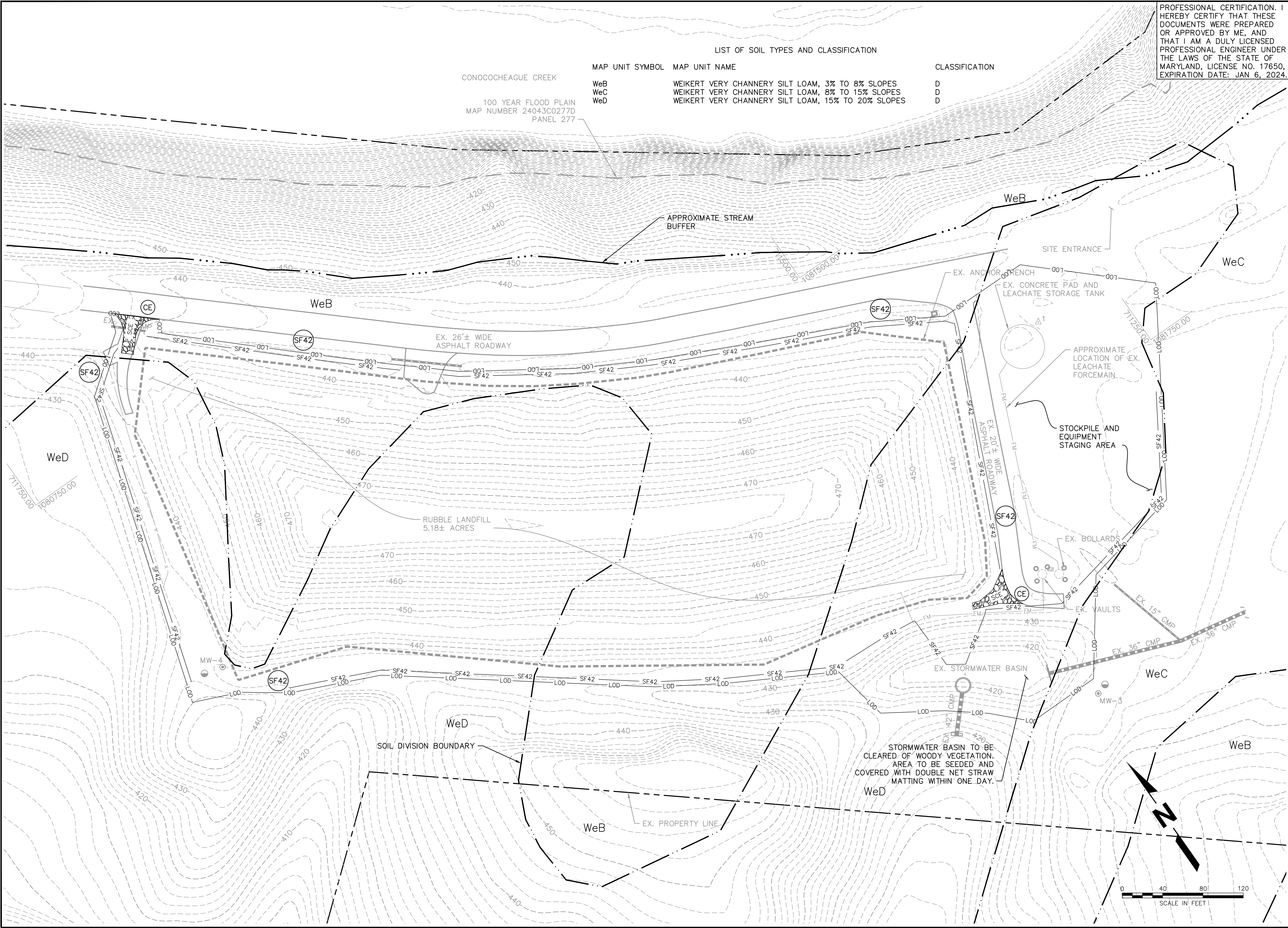
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SCALE: AS SHOWN

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LIST OF SOIL TYPES AND CLASSIFICATION		
MAP UNIT SYMBOL	MAP UNIT NAME	CLASSIFICATION
WeB	WEIKERT VERY CHANNERY SILT LOAM, 3% TO 8% SLOPES	D
WeC	WEIKERT VERY CHANNERY SILT LOAM, 8% TO 15% SLOPES	D
WeD	WEIKERT VERY CHANNERY SILT LOAM, 15% TO 20% SLOPES	D

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DATE	12/13/21
REVISION	4/20/22
NO.	1
PHASE 1 EROSION AND SEDIMENT CONTROL PLAN	
WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE	
WASHINGTON COUNTY DIVISION OF ENVIRONMENTAL MANAGEMENT 12630 EARTH CARE ROAD HAGERSTOWN, MARYLAND 21740	
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 11260 ROGER BACON DRIVE - RESTON, VA 20190 PH. (703) 471-6150 FAX. (703) 471-6876	
PROJECT NO. 02220050.00	DATE BY: SRS
DATE BY: SRS	APP. BY: MRG
DATE BY: SRS	APP. BY: MRG
CADD FILE:	
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1. ANY SPOIL AND/OR BORROW, MUST COME FROM AND/OR GO TO, A SITE WITH AN APPROVED AND CURRENT SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. INCREMENTAL STABILIZATION TO BE IMPLEMENTED ON ALL SLOPES GREATER THAN 15' SEE DETAIL ON SHEET 14.

MAP UNIT SYMBOL	MAP UNIT NAME	CLASSIFICATION
WeB	WEIKERT VERY CHANNERY SILT LOAM, 3% TO 8% SLOPES	D
WeC	WEIKERT VERY CHANNERY SILT LOAM, 8% TO 15% SLOPES	D
WeD	WEIKERT VERY CHANNERY SILT LOAM, 15% TO 20% SLOPES	D

STATE OF MARYLAND
MICHAEL R. GOUDREAU
LIC REG CERT
NO. 17850
PROFESSIONAL ENGINEER

Michael R. Goudreau

NO.	REVISION	DATE
1	REVISED PER WOSCD COMMENTS	12/13/21
2	REVISED PER WOSCD COMMENTS	4/20/22
3		
4		
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<p>PHASE II</p> <p>EROSION AND SEDIMENT CONTROL PLAN</p>	<p>WASHINGTON COUNTY</p> <p>RUBBLE LANDFILL CLOSURE</p>
<p>SHEET TITLE</p>	<p>PROJECT TITLE</p>

WASHINGTON COUNTY DIVISION OF
ENVIRONMENTAL MANAGEMENT
12630 EARTH CARE ROAD
HAGERSTOWN, MARYLAND 21740

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 11260 ROGER BACON DRIVE - RESTON, VA 20190 PH. (703) 471-6150 FAX. (703) 471-6676		C/A: R/W: B:	
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DESN. BY: SRS			

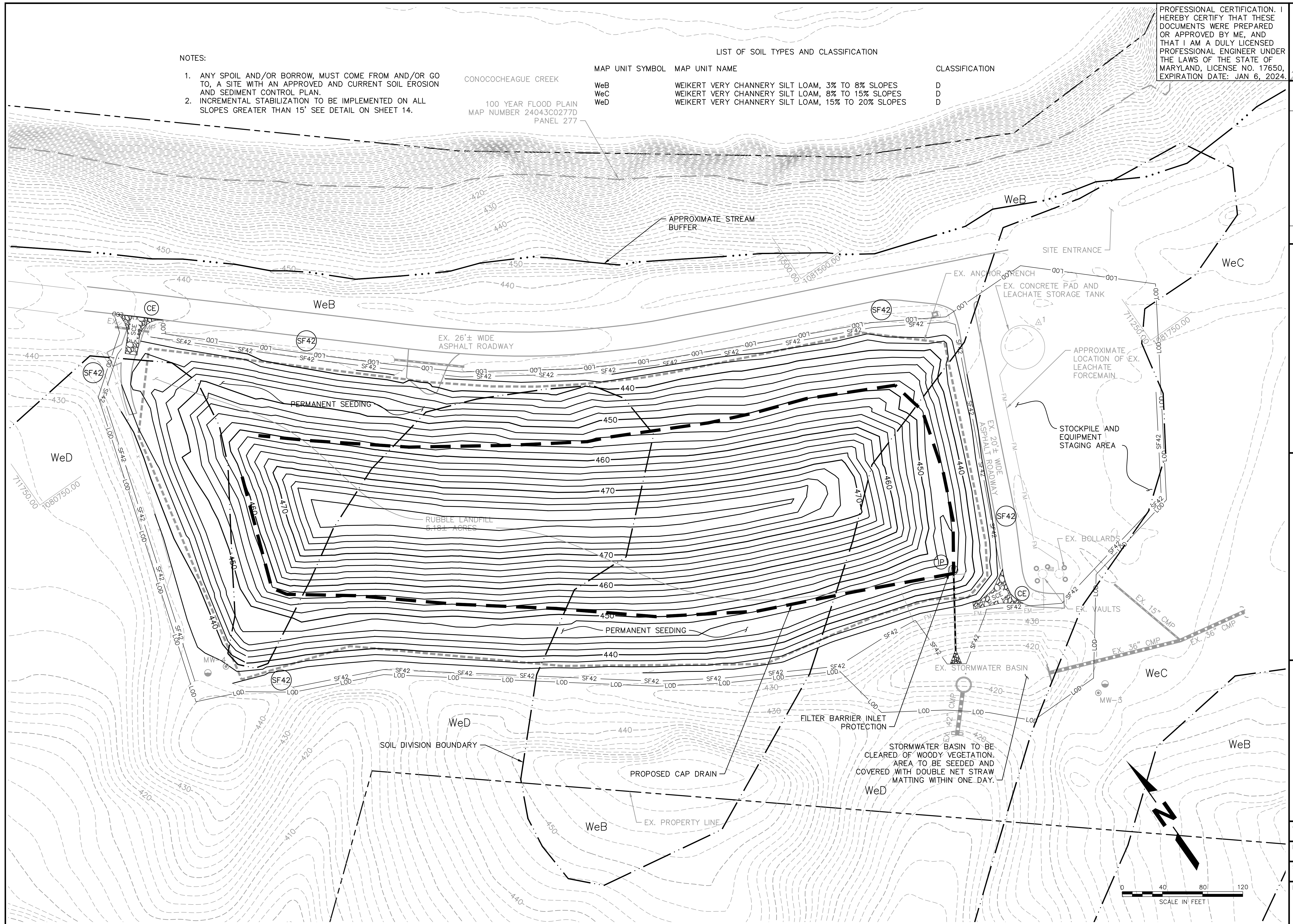
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12 of **14**



Temporary Seeding Summary						
Hardiness Zone (Figure B.3): 6B Seed Mixture (Table B.1): 5						
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)	Lime Rate
	BARLEY	96 LB/ AC	SEE BELOW	1 INCH	436 lb/ac. (10 lb/1000 s.f.)	2 tons/ac. (90 lb/1000 s.f.)
**Please complete the above table, per Section B-4-4 of the 2011 Maryland Standards for Soil Erosion and Sediment Control, for the applicable project. (The District recommends the mix below)						
	Barley (Hordeum vulgare)	96 lb/ac. 2.2 lb/1000 s.f.		MARCH 1–MAY 15 / AUGUST 1–OCTOBER 15	436 lb/ac. (10 lb/1000 s.f.)	2 tons/ac. (90 lb/1000 s.f.)

Permanent Seeding Summary								
Hardiness Zone (Figure B.3): 6B Seed Mixture (Table B.3) 5					Fertilizer Rate (10-20-20)			Lime Rate
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	N	P205	K20	
5	HARD FESCUE	20	*	1/4 - 1/2 inches	45 lb/ac. (1 lb/1000 s.f.)	90 lb/ac. (2 lb/1000 s.f.)	90 lb/ac. (2 lb/1000 s.f.)	2 tons/ac. (90 lb/1000 s.f.)
5	REDTOP	1	*	1/4 - 1/2 inches				
5	FLATPEA	15	*	1/4 - 1/2 inches				
* MARCH 1–MAY 15 / AUGUST 1–OCTOBER 15								
**Please complete the above table, per Section B-4-5 of the 2011 Maryland Standards for Soil Erosion and Sediment Control, for the applicable project. (The District recommends Mix #6)								

For sites 1.0 acre or more, the following are required:

- A. Maryland Department of the Environment, General Permit for Stormwater Associated with a Construction Activity, NPDES Permit Number MDRG, State Discharge Permit Number 14GP, or an Individual Permit.
- B. The Maryland Department of the Environment (General/Individual Permit – Notice of Intent- NOI) application and permit shall be posted and/or available on-site at all times.
- C. During construction, all soil erosion and sediment control practices (BMP's) shall be inspected and recorded on the "Standard Inspection Form", "General Permit for Stormwater Associated with Construction Activity" per the Maryland Department of the Environment (General/Individual Permit – Notice of Intent – NOI).
- D. Following construction and release of the site for soil erosion and sediment control by the Washington County Soil Conservation District, i.e., all portions of a site have been permanently stabilized, and all stormwater discharges from construction sites that are authorized by the permit are eliminated, the authorized permittee shall submit the Maryland Department of the Environment, General/Individual Permit – Notice of Termination-NOT.

PERMANENT SEEDING NOTES

SCOPE: PLANTING PERMANENT, LONG LIVED VEGETATIVE COVER ON GRADED AND/OR CLEARED AREAS AND AREAS THAT HAVE BEEN IN TEMPORARY VEGETATION FOR MORE THAN 6 MONTHS.

STANDARDS: THE FOLLOWING NOTES SHALL CONFORM TO SECTION B–4 OF THE “2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL” PUBLISHED JOINTLY BY THE MARYLAND DEPARTMENT OF ENVIRONMENT – WATER MANAGEMENT ADMINISTRATION, THE NATIONAL RESOURCE CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS.

THE SEED BED SHALL BE PREPARED BY LOOSENING THE SOIL TO A DEPTH OF 3 TO 5 INCHES AND INCORPORATING THE LIME AND FERTILIZER INTO THIS LOOSENED LAYER OF SOIL. SEE SECTION B–4–2.

FOR SITES OVER 5 AC. SOIL TESTS WILL BE PERFORMED. SOIL TESTS WILL BE CONDUCTED BY THE UNIVERSITY OF MARYLAND OR A RECOGNIZED COMMERCIAL LABORATORY. MINIMUM SOIL CONDITIONS SHALL MEET THE REQUIREMENTS OF SECTION B–4–2–A–2–A, OTHERWISE SOIL AMENDMENTS OR TOPSOIL WILL NEED TO BE APPLIED. TOPSOILING MAY OCCUR WHEN SOIL CONDITIONS MEET THE MINIMUM REQUIREMENTS AS STATED IN SECTION B–4–2–B. SOIL AMENDMENTS MUST MEET THE REQUIREMENTS AS SET FORTH IN SECTION B–4–2–C AND MUST BE APPLIED AS INDICATED BY THE SOILS TESTS.

FOR SITES OF 5 AC. OR LESS OF DISTURBANCE, THE FOLLOWING FERTILIZER AND LIME RATES SHALL APPLY. FERTILIZER SHALL CONSIST OF A MIXTURE OF 10–20–20 AND BE APPLIED AT THE FOLLOWING RATES:

N = 45 LB. PER ACRE (1 LB. PER 1000 SQ.FT.)
P2O5 = 90 LB. PER ACRE (2 LB. PER 1000 SQ.FT.)
K2O = 90 LB. PER ACRE (2 LB. PER 1000 SQ.FT.)
LIME SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE (90 LB. PER 1000 SQ.FT.)

SEED TYPE, TURFGRASS OR SOD APPLICATION SHALL MEET THE REQUIREMENTS IN SECTION B–4–5. SEED TAGS SHALL BE MADE AVAILABLE TO THE INSPECTOR TO VERIFY THE TYPE AND APPLICATION RATE OF SEED USED. MULCH TYPE AND ITS APPLICATION WILL MEET THE REQUIREMENTS IN SECTION B–4–3 A, B AND C, AND WILL BE APPLIED ALONG WITH SEED OR IMMEDIATELY AFTER SEEDING

SEEDING MIXTURES SHALL BE SELECTED FROM OR WILL BE EQUAL TO THOSE ON TABLE B–3. THE SEEDING CHART BELOW WILL NEED TO BE PLACED ON AND FILLED IN ON THE SEDIMENT CONTROL PLAN

CONSTRUCTION SEQUENCE

1. REQUEST A PRE–CONSTRUCTION MEETING WITH THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AT (301) 797–6821 EXT. 3.
2. AS A FIRST STEP PRIOR TO ANY EXCAVATION, INSTALL PERIMETER SEDIMENT CONTROL MEASURES SUCH AS STONE CONSTRUCTION ENTRANCE, SILT FENCE AND INLET PROTECTION.
3. CLEAR AND GRUB, AND PREPARE FOR SITE GRADING.
4. BRING SITE TO GRADE, AND ENSURE E&S CONTROLS ARE MAINTAINED, AND ADJUSTED AS THE SITE CONDITIONS WARRANT.
5. PERMANENTLY STABILIZE ALL REMAINING DISTURBED AREAS.
6. STEPS 3–5 SHALL BE COORDINATED BY THE CONTRACTOR ACCORDING TO HOW THE PHASING OF CONSTRUCTION WILL OCCUR.
7. PERMANENTLY STABILIZE ALL AREAS DISTURBED AS A RESULT OF CONSTRUCTION AND SEDIMENT CONTROL REMOVAL.
8. A FINAL SITE CLOSOUT MEETING HELD BY WASHINGTON COUNTY SOIL CONSERVATION DISTRICT ONCE THE SITE HAS REACHED 95% VEGETATIVE STABILIZATION.
9. REMOVE SEDIMENT CONTROLS WITH APPROVAL OF THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT AND SEDIMENT CONTROL ADMINISTRATOR.
10. PERMANENTLY STABILIZE ANY REMAINING AREAS DISTURBED BY REMOVAL OF EROSION & SEDIMENT CONTROL MEASURES.
11. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER EVERY RAIN EVENT, AND REPAIRED AS NECESSARY WITHIN 24 HOURS.

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17650, EXPIRATION DATE: JAN 6, 2024.



SEDIMENT AND EROSION CONTROL NOTES

1. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION IN ASSOCIATION WITH THE NATURAL RESOURCES CONSERVATION SERVICE AND THE MARYLAND ASSOCIATION OF SOIL CONSERVATION DISTRICTS (REFERENCED AS THE 2011 STANDARDS AND SPECS).
2. AREAS THAT HAVE BEEN CLEARED AND/OR GRADED, BUT WILL NOT BE CONSTRUCTED ON OR PERMANENTLY VEGETATED FOR MORE THAN 5 DAYS (3 DAYS FOR SEDIMENT CONTROL MEASURES AND FOR STEEP SLOPES) MUST BE STABILIZED WITH MULCH OR TEMPORARY STABILIZATION. ANY AREAS THAT ARE IN TEMPORARY VEGETATION FOR OVER 6 MONTHS WILL NEED TO BE PERMANENTLY VEGETATED.
3. FOR SPECIFICATIONS ON PERMANENT OR TEMPORARY STABILIZATION, SEE B–4–4 AND B–4–5.
4. MULCHING ONLY IS RESTRICTED TO USE ON DISTURBED AREAS AS A TEMPORARY COVER WHERE VEGETATION IS NOT FEASIBLE OR WHERE SEEDING GERMINATION CANNOT BE COMPLETED BECAUSE OF WEATHER CONDITIONS. FOR SPECIFICATIONS SEE B–4–3, A.1.B
5. FOR SPECIFICATIONS ON THE STABILIZATION OF CUT AND FILL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL, SEE INCREMENTAL STABILIZATION B–4–1
6. THE EXISTING TOPSOIL FROM ON OR OFF SITE THAT IS USED MUST MEET THE MINIMUM SPECIFICATION IN B–4–2
7. THE REQUIRED SEQUENCE OF CONSTRUCTION MUST BE FOLLOWED DURING SITE DEVELOPMENT. ANY CHANGES IN THE SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
8. ANY REVISIONS TO THE SEDIMENT CONTROL PLAN, NOT COVERED UNDER THE LIST OF PLAN MODIFICATIONS THAT CAN BE APPROVED BY THE SEDIMENT CONTROL INSPECTOR, NEED TO BE SUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR APPROVAL.
9. NO PROPOSED SLOPE THAT IS REQUIRED TO BE SEEDED AND/OR MULCHED SHALL BE STEEPER THAN 2:1. SLOPES STEEPER THEN 2:1 SHALL REQUIRE AN ENGINEERED DESIGN FOR STABILIZATION.
10. ALL SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED ONCE A WEEK AND AFTER EACH RAINFALL AND WILL BE REPAIRED, AS NEEDED, SO THAT THE STRUCTURE MEETS THE MINIMUM SPECIFICATIONS AS SHOWN IN THE 2011 STANDARDS AND SPECIFICATIONS.
11. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT AND EROSION CONTROL MEASURES UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.
12. THE DISTRICT APPROVAL FOR THIS SEDIMENT CONTROL PLAN IS GOOD FOR 2 YEARS. AT THE END OF 2 YEARS, IF CONSTRUCTION OF THE PLAN HAS NOT STARTED, THE PLAN WILL NEED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT FOR REVIEW AND RE–APPROVAL. ANY PLANS THAT ARE CURRENTLY UNDER CONSTRUCTION AFTER 2 YEARS MAY BE REQUIRED TO BE RESUBMITTED TO THE SOIL CONSERVATION DISTRICT BY THE SEDIMENT CONTROL INSPECTOR.

EROSION AND SEDIMENT CONTROL NARRATIVE

WASHINGTON COUNTY RUBBLE LANDFILL IS LOCATED IN WILLIAMSPORT JUST WEST OF INTERSTATE 81. THE PURPOSE OF THIS PLAN IS TO PROVIDE EROSION AND SEDIMENT CONTROL MEASURES FOR THE CAPPING OF THE RUBBLE LANDFILL. THERE WILL BE APPROXIMATELY 8.27 ACRES OF DISTURBANCE.

THE PROJECT SITE IS COMPRISED OF GRASS WITH MINIMAL IMPERVIOUS COVER. THERE WILL BE NO INCREASE OF IMPERVIOUS AREA DURING CONSTRUCTION OF THE GEOMEMBRANE CAP. CONSTRUCTION OF THE GEOMEMBRANE CAP DOES NOT ALTER THE DRAINAGE AREA OF THE SITE.

THE LANDFILL WILL BE CLEARED OF VEGETATION AND REGRADED TO ELIMINATE ANY SLOPES GREATER THAN 3:1. ONCE INTERMEDIATE GRADE IS COMPLETE THE GEOMEMBRANE CAP WILL BE INSTALLED FOLLOWED BY TWO FEET OF FINAL COVER. THE FINAL COVER WILL BE IMMEDIATELY PERMANENTLY SEEDED AND STABILIZED. EROSION CONTROL MEASURES INCLUDE SUPER SILT FENCE, CONSTRUCTION ENTRANCE, INLET PROTECTION, AND PERMANENT SEEDING. TEMPORARY SEEDING AND EROSION CONTROL MATTING WILL BE USED AS NECESSARY FOR AREAS WHERE PERMANENT SEEDING CAN NOT BE ACHIEVED WITHIN THE PROPER TIME FRAME.

SITE ANALYSIS

TOTAL DISTURBED AREA = 8.27 ACRES (360,241 SF.)
PROPOSED IMPERVIOUS AREA (TO BE ADDED) = 0.00 ACRES (0.00 SF.)
PROPOSED IMPERVIOUS AREA (TO BE REMOVED) = 0.00 ACRES (0.00 SF.)
TOTAL AREA OF VEGETATIVE STABILIZATION = 5.25 ACRES (228,690 SF.)
TOTAL CUT = 1,800± CY
TOTAL FILL = 17,900± CY
NET CUT–FILL = 16,100± CY FILL

B-4-8 STANDARDS AND SPECIFICATIONS

FOR
STOCKPILE AREA

Definition

A mound or pile of soil protected by appropriately designed erosion and sediment control measures.

Purpose

To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.

Conditions Where Practice Applies

Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

Criteria

1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
3. Runoff from the stockpile area must drain to a suitable sediment control practice.
4. Access the stockpile area from the upgrade side.
5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

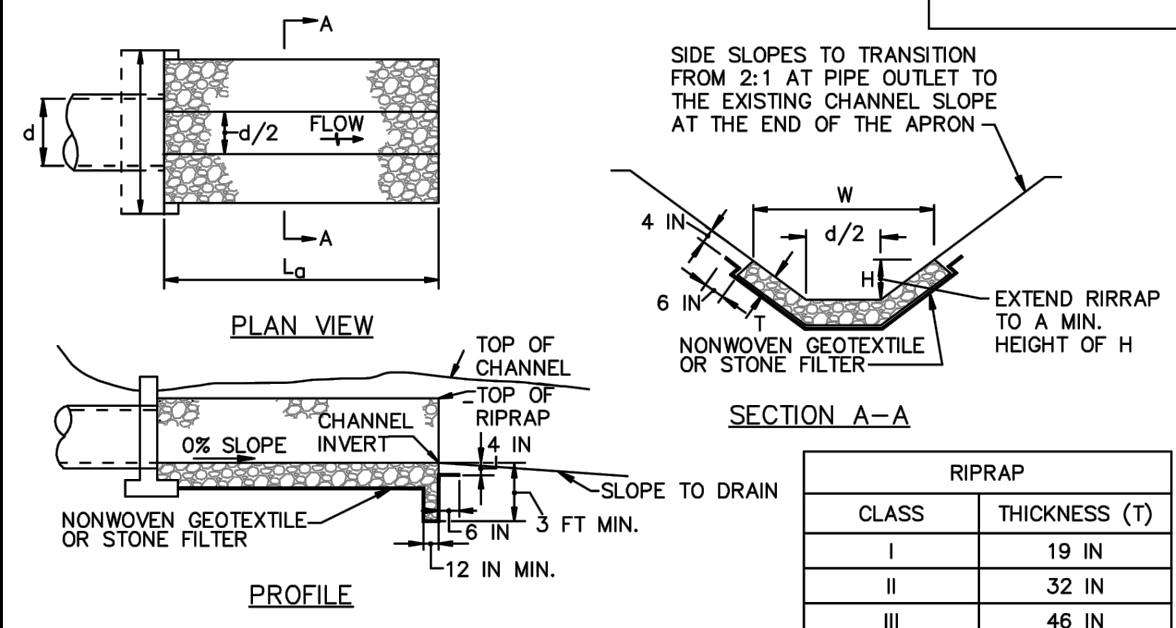
SOIL EROSION, SEDIMENT CONTROL, & SEEDING NOTES

1. All soil erosion/sediment control measures shall comply with the “2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control” and the provisions of the approved plan.
2. All grading and stabilization shall comply with the “2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control”, “Section B – Grading and Stabilization” and the provisions of the approved plan.
3. All soil erosion and sediment control practices (BMP's) are to be constructed and/or installed prior to or at the initiation of grading in accordance with “2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control”, and the approved plan.
4. A grading unit is the maximum contiguous area allowed to be graded at a given time and is limited to 20 acres. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the enforcement authority and/or the Washington County Soil Conservation District (approval authority). Unless otherwise specified and approved by the approval authority, no more than 30 acres cumulatively may be disturbed at a given time.
5. For initial soil disturbance or re-disturbance, temporary or permanent stabilization must be completed within:

a) Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and

b) Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.
6. Stockpiles must be stabilized in accordance within the 7 day stabilization requirement, as well as, Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization (as applicable).
7. All constructed channels and swales shall have specified treatment installed to the design flow depth completed downstream to upstream as construction progresses. An installation detail shall be shown on the plans.
8. All storm drain and sanitary sewer lines not in paved areas are to be mulched and seeded within 3 days of initial backfill unless otherwise specified on plans.
9. Electric Power, telephone, and gas lines are to be compacted, seeded, and mulched within 3 days after initial backfill unless otherwise specified on plans.
10. No slope shall be greater than 2:1.
11. As required by Section B, of the Maryland Standards and Specifications for Soil Erosion and Sediment Control, “Adequate Vegetative Stabilization”, is defined as 95 percent ground cover. The Washington County Soil Conservation District requires the project adhere to this for scheduling of the Final Site Closeout Review, and/or release of the site for soil erosion and sediment control.

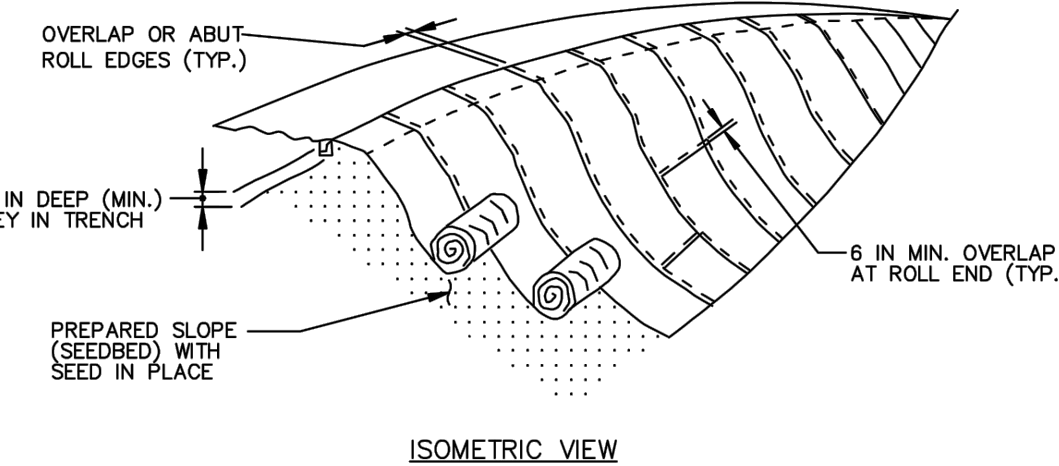
DETAIL D-4-1-B ROCK OUTLET PROTECTION II



- CONSTRUCTION SPECIFICATIONS**
- RIPRAP AND STONE MUST CONFORM TO THE SPECIFIED CLASS.
 - USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, AND PROTECT FROM PUNCTURING, CUTTING, OR TEARING. REPAIR ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. PROVIDE A MINIMUM OF ONE FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF GEOTEXTILE TOGETHER.
 - PREPARE THE SUBGRADE FOR GEOTEXTILE OR STONE FILTER (3/4 TO 1 1/2 INCH STONE FOR 6 INCH MINIMUM DEPTH) AND RIPRAP TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
 - EXTEND GEOTEXTILE AT LEAST 6 INCHES BEYOND EDGES OF RIPRAP AND EMBED AT LEAST 4 INCHES AT SIDES OF RIPRAP.
 - CONSTRUCT RIPRAP OUTLET TO FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. PLACE STONE FOR RIPRAP OUTLET IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENEOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. PLACE RIPRAP IN A MANNER TO PREVENT DAMAGE TO THE STONE FILTER BLANKET OR GEOTEXTILE. HAND PLACE TO THE EXTENT NECESSARY.
 - WHERE NO ENDWALL IS USED, CONSTRUCT THE UPSTREAM END OF THE APRON SO THAT THE WIDTH IS TWO TIMES THE DIAMETER OF THE OUTLET PIPE, AND EXTEND THE STONE UNDER THE OUTLET BY A MINIMUM OF 18 INCHES.
 - CONSTRUCT APRON WITH 0% SLOPE ALONG ITS LENGTH AND WITHOUT OBSTRUCTIONS. PLACE STONE SO THAT IT BLENDS IN WITH EXISTING GROUND.
 - MAINTAIN LINE, GRADE, AND CROSS SECTION. KEEP OUTLET FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. AFTER HIGH FLOWS INSPECT FOR SCOUR AND DISLODGED RIPRAP. MAKE NECESSARY REPAIRS IMMEDIATELY.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

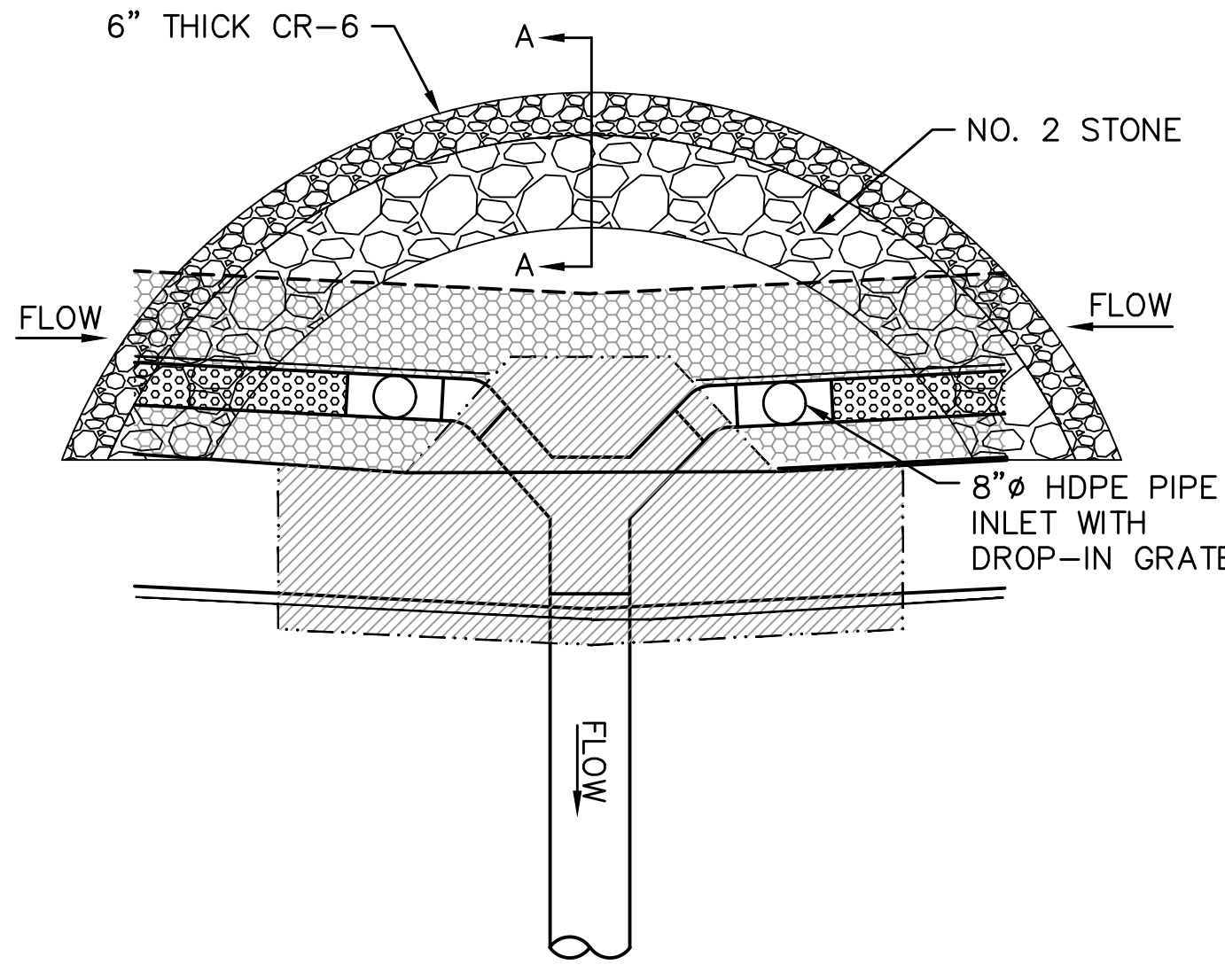
DETAIL B-4-6-B TEMPORARY SOIL STABILIZATION MATTING SLOPE APPLICATION



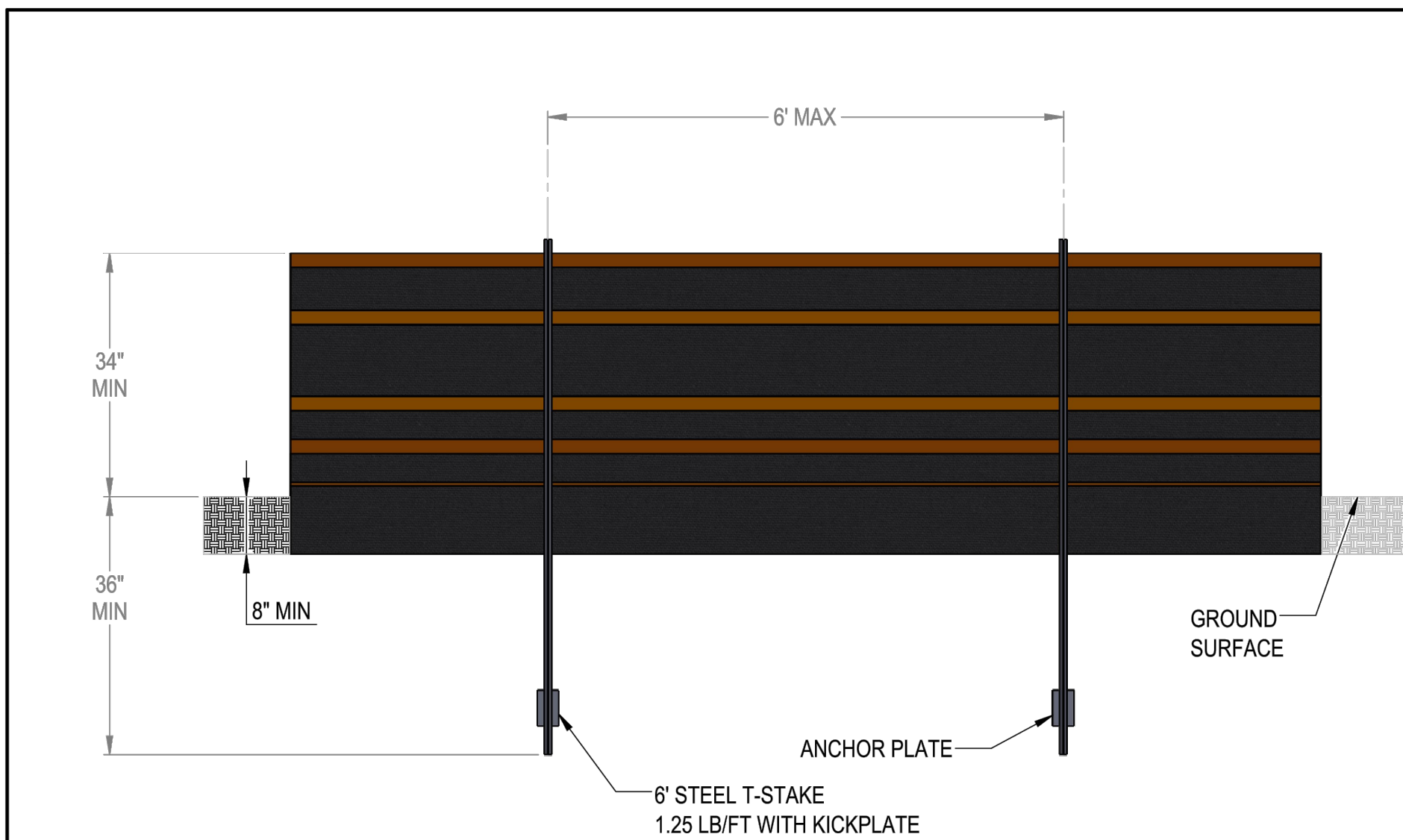
CONSTRUCTION SPECIFICATIONS

- USE MATTING THAT HAS A DESIGN VALUE FOR SHEAR STRESS EQUAL TO OR HIGHER THAN THE SHEAR STRESS DESIGNATED ON APPROVED PLANS.
- USE TEMPORARY SOIL STABILIZATION MATTING MADE OF DEGRADABLE (LASTS 6 MONTHS MINIMUM) NATURAL OR MAN-MADE FIBERS (MOSTLY ORGANIC). MAT MUST HAVE UNIFORM THICKNESS AND DISTRIBUTION OF FIBERS THROUGHOUT AND BE SMOLDER RESISTANT. CHEMICALS USED IN THE MAT MUST BE NON-LEACHING AND NON-TOXIC TO VEGETATION AND SEED GERMINATION AND NON-INJURIOUS TO THE SKIN. IF PRESENT, NETTING MUST BE EXTRUDED PLASTIC WITH A MAXIMUM MESH OPENING OF 2 1/2 INCHES AND SUFFICIENTLY BONDED OR SEWN ON 2 INCH CENTERS ALONG LONGITUDINAL AXIS OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
- SECURE MATTING USING STEEL STAPLES, WOOD STAKES, OR BIODEGRADABLE EQUIVALENT. STAPLES MUST BE "U" OR "T" SHAPED STEEL WIRE HAVING A MINIMUM GAUGE OF NO. 11 AND NO. 8 RESPECTIVELY. "U" SHAPED STAPLES MUST AVERAGE 1 TO 1 1/2 INCHES WIDE AND BE A MINIMUM OF 6 INCHES LONG. "T" SHAPED STAPLES MUST HAVE A MINIMUM 8 INCH MAIN LEG, A MINIMUM 1 INCH SECONDARY LEG, AND A MINIMUM 4 INCH HEAD. WOOD STAKES MUST BE ROUGH-SAWN HARDWOOD, 12 TO 24 INCHES IN LENGTH, 1x3 INCH IN CROSS SECTION, AND WEDGE SHAPED AT THE BOTTOM.
- PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
- UNROLL MATTING DOWNSLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDBED SURFACE. AVOID STRETCHING THE MATTING.
- OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UPSLOPE MAT OVERLAPPING ON TOP OF THE DOWNSLOPE MAT.
- KEY IN THE UPSLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
- STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 2 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
- ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE WITH SECTION B-4 VEGETATIVE STABILIZATION.

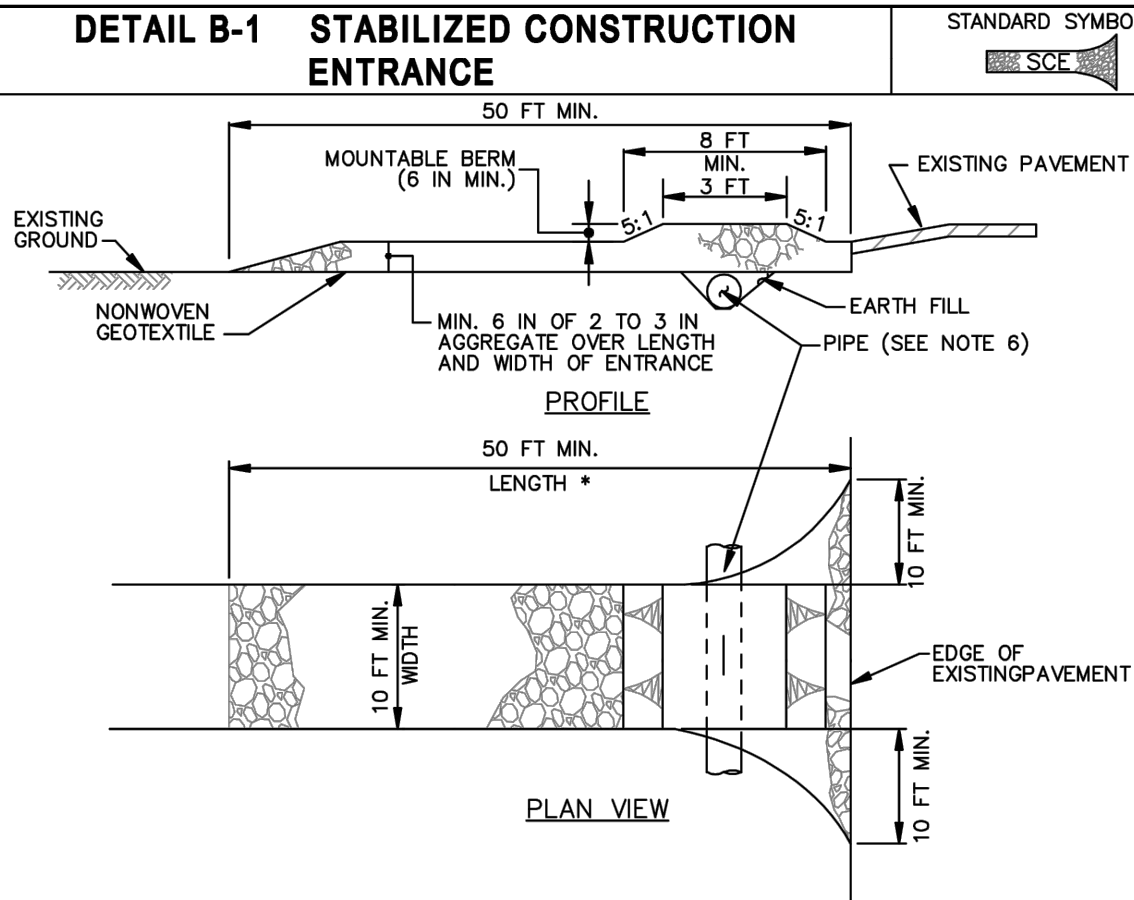
MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



FILTER BARRIER DETAIL
SCALE: NOT TO SCALE



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CONSTRUCTION SPECIFICATIONS

- PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (430 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
- PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
- PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
- PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
- MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

B-4-1 STANDARDS AND SPECIFICATIONS

FOR INCREMENTAL STABILIZATION

Definition

Establishment of vegetative cover on cut and fill slopes.

Purpose

To provide timely vegetative cover on cut and fill slopes as work progresses.

Conditions Where Practice Applies

Any cut or fill slope greater than 15 feet in height. This practice also applies to stockpiles.

Criteria

A. Incremental Stabilization - Cut Slopes

- Excavate and stabilize cut slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all cut slopes as the work progresses.
- Construction sequence example (Refer to Figure B.1):
 - Construct and stabilize all temporary swales or dikes that will be used to convey runoff around the excavation.
 - Perform Phase 1 excavation, prepare seedbed, and stabilize.
 - Perform Phase 2 excavation, prepare seedbed, and stabilize. Overseed Phase 1 areas as necessary.
 - Perform final phase excavation, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

Note: Once excavation has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

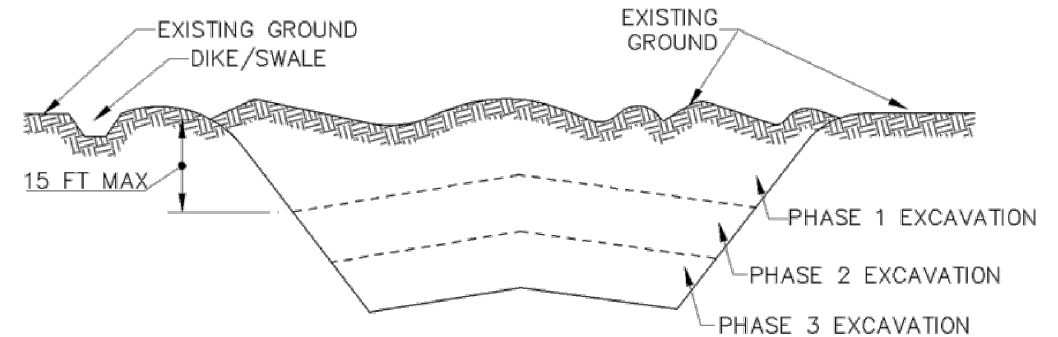


Figure B.1: Incremental Stabilization - Cut

B. Incremental Stabilization - Fill Slopes

- Construct and stabilize fill slopes in increments not to exceed 15 feet in height. Prepare seedbed and apply seed and mulch on all slopes as the work progresses.
- Stabilize slopes immediately when the vertical height of a lift reaches 15 feet, or when the grading operation ceases as prescribed in the plans.
- At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.
- Construction sequence example (Refer to Figure B.2):
 - Construct and stabilize all temporary swales or dikes that will be used to divert runoff around the fill. Construct silt fence on low side of fill unless other methods shown on the plans address this area.
 - At the end of each day, install temporary water conveyance practice(s), as necessary, to intercept surface runoff and convey it down the slope in a non-erosive manner.
 - Place Phase 1 fill, prepare seedbed, and stabilize.
 - Place Phase 2 fill, prepare seedbed, and stabilize.
 - Place final phase fill, prepare seedbed, and stabilize. Overseed previously seeded areas as necessary.

Note: Once the placement of fill has begun the operation should be continuous from grubbing through the completion of grading and placement of topsoil (if required) and permanent seed and mulch. Any interruptions in the operation or completing the operation out of the seeding season will necessitate the application of temporary stabilization.

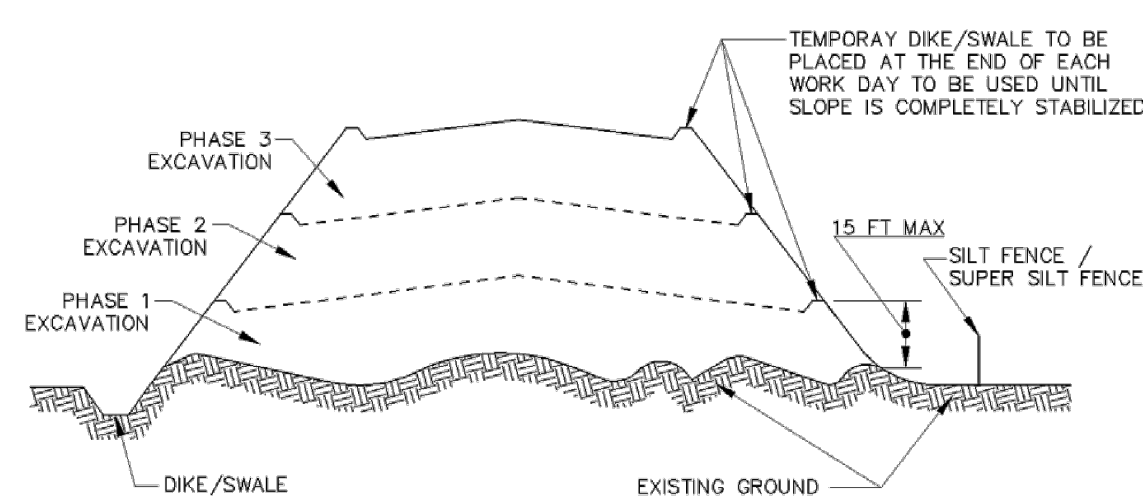


Figure B.2: Incremental Stabilization - Fill

B.10

B.11

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17650, EXPIRATION DATE: JAN 6, 2024.



DATE	REVISION	NO.
12/13/21	REVISED PER WSCD COMMENTS	1
4/07/22	REVISED PER WSCD COMMENTS	2
		3
		4

SHEET TITLE **EROSION AND SEDIMENT CONTROL PLAN NOTES AND DETAILS II**

PROJECT TITLE **WASHINGTON COUNTY RUBBLE LANDFILL CLOSURE**

CLIENT **WASHINGTON COUNTY DIVISION OF ENVIRONMENTAL MANAGEMENT**

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PROJ. NO. 02220050.00

DWG. BY: SRS

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APP. BY: MRC

CADD FILE:

DATE: **MAY 2021**

SCALE: **NONE**

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