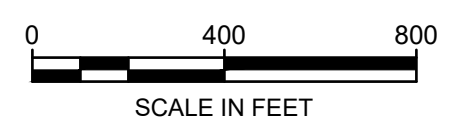


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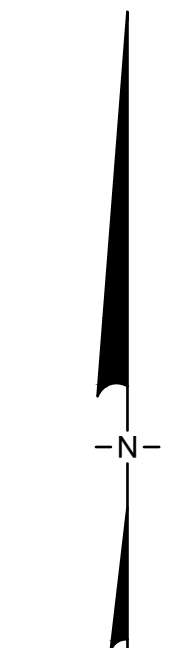
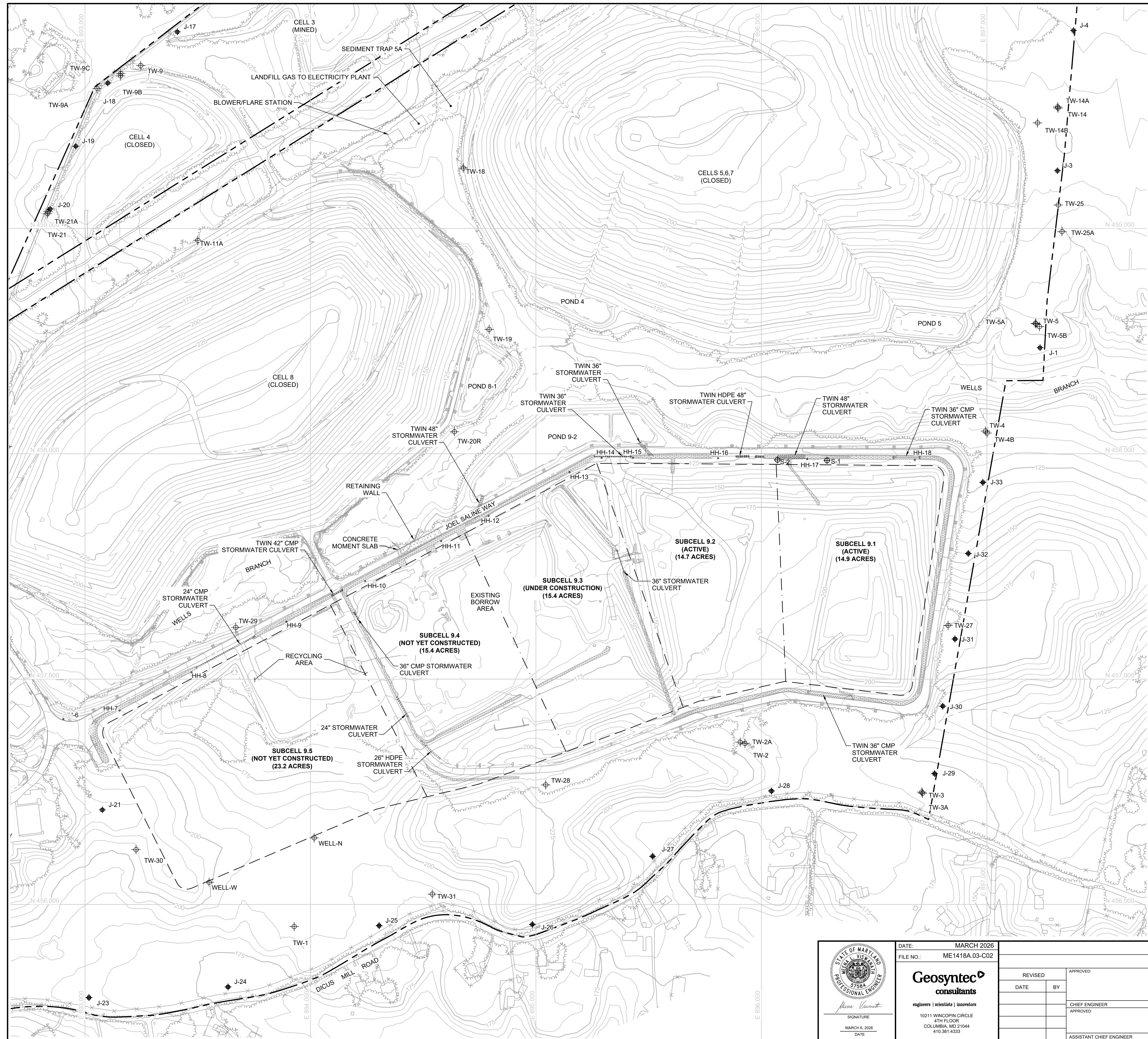
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	EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
	STRUCTURE / BUILDING
	FENCE
	PAVED DRIVE
	GRAVEL DRIVE
	TREELINE
	STREAM / WATERLINE
	TW-19 GROUNDWATER MONITORING WELL
	J-25 GAS PROBE
	CELL 9 FOOTPRINT
	SUBCELL BOUNDARY
	LITTER FENCE
	GUARDRAIL
	S-1 SENTRY WELL

- GENERAL NOTES:**
- GENERAL TOPOGRAPHIC MAP FROM AERIAL SURVEY CONDUCTED ON 2 JANUARY, 2024 BY BAI GROUP, LLC OF STATE COLLEGE, PENNSYLVANIA. ACTUAL FIELD CONDITIONS MAY VARY DUE TO ONGOING CONSTRUCTION AND OPERATIONS AT CELL 9, WHICH IS AN ACTIVE OPERATIONAL LANDFILL.
 - HORIZONTAL COORDINATES CORRESPOND TO THE MARYLAND NORTH AMERICAN DATUM OF 1927 (NAD27); VERTICAL DATUM IS THE 1929 NATIONAL GEODETIC VERTICAL DATUM (NGVD29).
 - THE EXISTING UTILITIES SHOWN WERE OBTAINED FROM THE BEST AVAILABLE RECORDS LISTED BELOW:
 - LEACHATE FORCEMAIN AND GRAVITY MAIN: SUBMITTAL 17-095R3 ENTITLED "CELL 9 FORCEMAIN & SUBCELLS 9.1 & 9.2 GRAVITY MAIN AS-BUILT DRAWINGS" BY ALLAN MYERS, INC. DATED 08 FEBRUARY 2017.
 - ELECTRICAL LINES: SUBMITTAL 17-094R2 ENTITLED "CELL 9 ELECTRIC DUCT BANK AS-BUILT DRAWINGS" BY ALLAN MYERS, INC. DATED 09 FEBRUARY 2017.
 - LANDFILL GAS HEADER: SUBMITTAL 17-093R3 ENTITLED "CELL 9 LANDFILL GAS HEADER AS-BUILT DRAWINGS" BY ALLAN MYERS, INC. DATED 09 FEBRUARY 2017.
 - LANDFILL GAS PROBES: SUBMITTAL 22-103 ENTITLED "LFG PROBE AS-BUILT DRAWING" BY ALLAN MYERS, INC. DATED 12 SEPTEMBER 2016.
 - MONITORING WELLS: CADD FILE ENTITLED "SITE MAP.DWG" FROM SCS ENGINEERING (NO DATE).
 - GAS PROBES: CADD FILE ENTITLED "012F004ABC-012E001ABC (Site Monitoring, LFG, Utilities Plans).dwg" FROM BALANCED ENVIRONMENTAL SOLUTIONS GROUP INC. DATED 12 JULY 2017.



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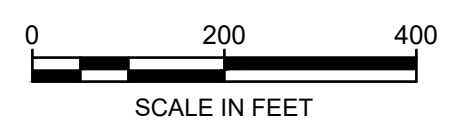
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	FILE NO.: ME1418A.03-C01	DEPARTMENT OF PUBLIC WORKS																		
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REVISED	DATE	BY	APPROVED	DATE																
SCALE: NOTED	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY																			
DRAWN BY: BWM/J	TITLE: EXISTING CONDITIONS - MILLERSVILLE LANDFILL																			
CHECKED BY: MV	DRAWING NO.: 2 OF 30																			
PROJECT NO.: ME1418A																				
SIGNATURE: <i>[Signature]</i> MARCH 8, 2026 DATE:	10211 WNWCPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	CHIEF ENGINEER APPROVED: _____ DATE: _____ ASSISTANT CHIEF ENGINEER	PROJECT MANAGER APPROVED: _____ DATE: _____ CHIEF RIGHT-OF-WAY																	



LEGEND

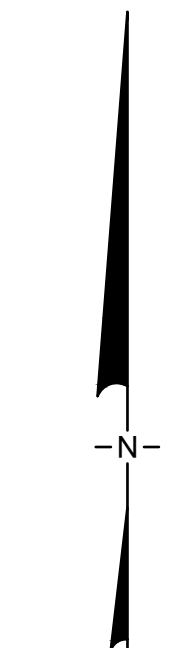
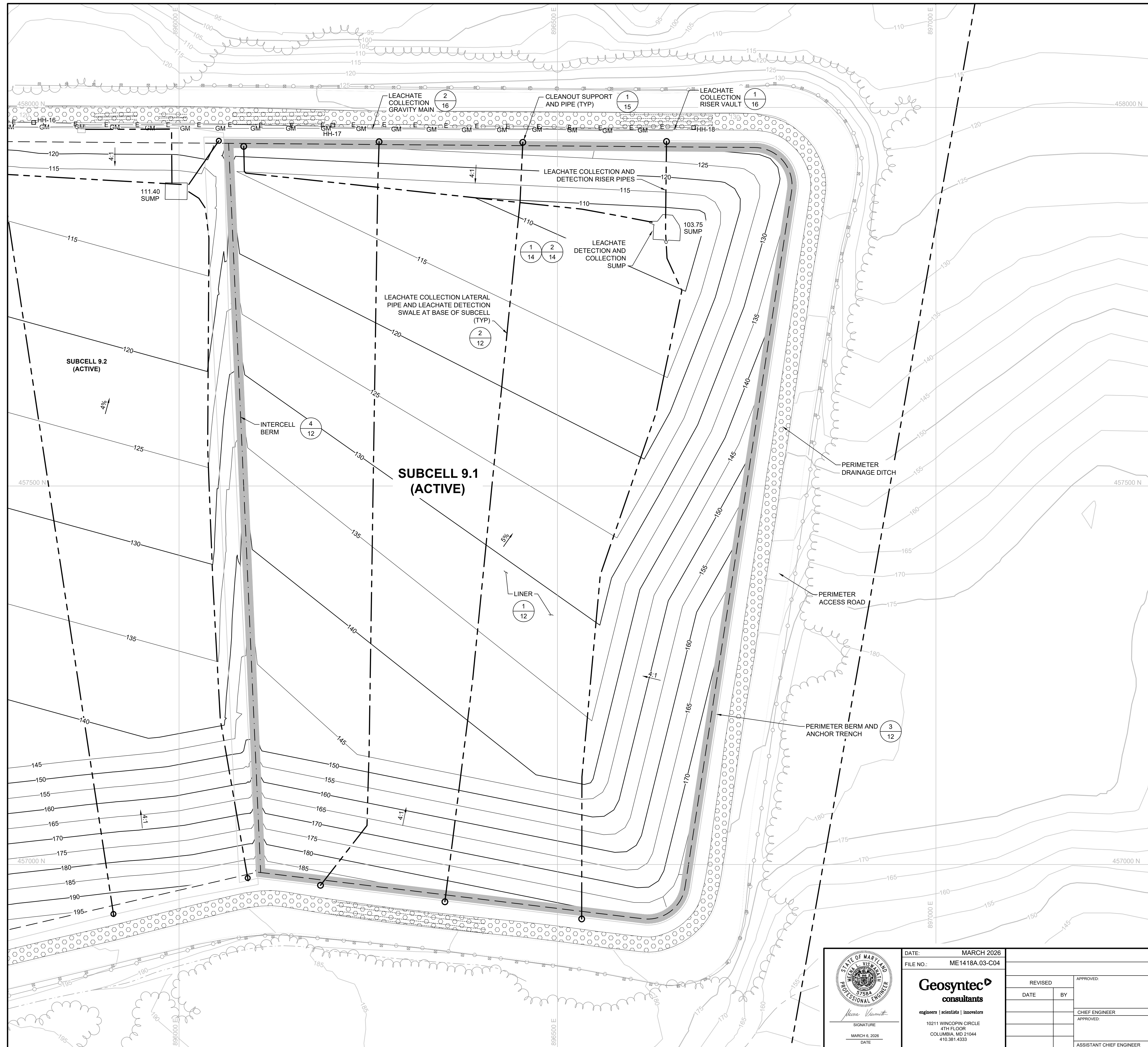
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	STRUCTURE / BUILDING
	FENCE
	PAVED DRIVE
	GRAVEL DRIVE
	TREELINE
	STREAM / WATERLINE
	TW-19 GROUNDWATER MONITORING WELL
	J-25 GAS PROBE
	CELL 9 FOOTPRINT
	SUBCELL BOUNDARY
	LITTER FENCE
	GUARDRAIL
	HH-15 ELECTRIC HANDHOLE
	STORMWATER CULVERT
	RIPRAP
	CONCRETE MOMENT SLAB
	S-1 SENTRY WELL

NOTES:
1. SEE DRAWING NO. 2 FOR GENERAL NOTES.



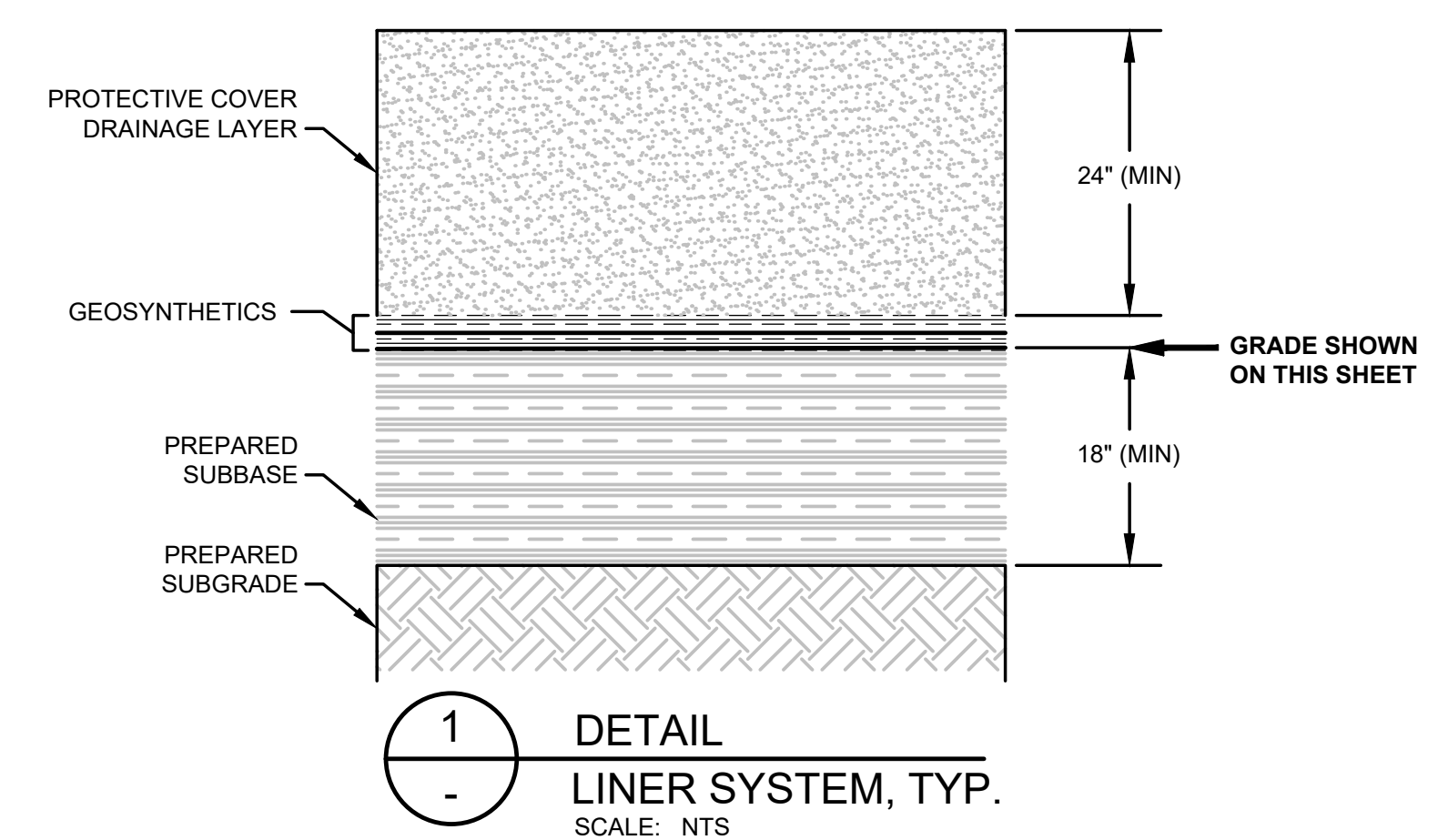
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Geosyntec consultants engineers scientists innovators 10211 WINDCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	REVISIONS:	APPROVED:	PROJECT:
	DATE BY	DATE	CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY
SIGNATURE: <i>[Signature]</i>	DATE: MARCH 8, 2026	CHIEF ENGINEER APPROVED:	TITLE:
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		ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY

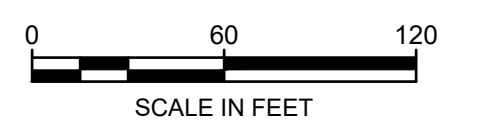


LEGEND

- PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
- PROPOSED SUBBASE CONTOUR (FEET-MSL)
- STRUCTURE / BUILDING
- FENCE
- PAVED DRIVE
- GRAVEL DRIVE
- TREELINE
- STREAM / WATERLINE
- STORMWATER CULVERT
- RIPRAP
- CELL 9 FOOTPRINT
- SUBCELL BOUNDARY
- LITTER FENCE
- GUARDRAIL
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- E ELECTRIC DUCT BANK (22" X 16")
- FM LEACHATE FORCE MAIN (4" X 8" DUAL CONTAINMENT PIPE)
- GM LEACHATE GRAVITY MAIN (8" X 12" DUAL CONTAINMENT PIPE)
- LEACHATE COLLECTION PIPE
- LIMIT OF SUBCELL LINER

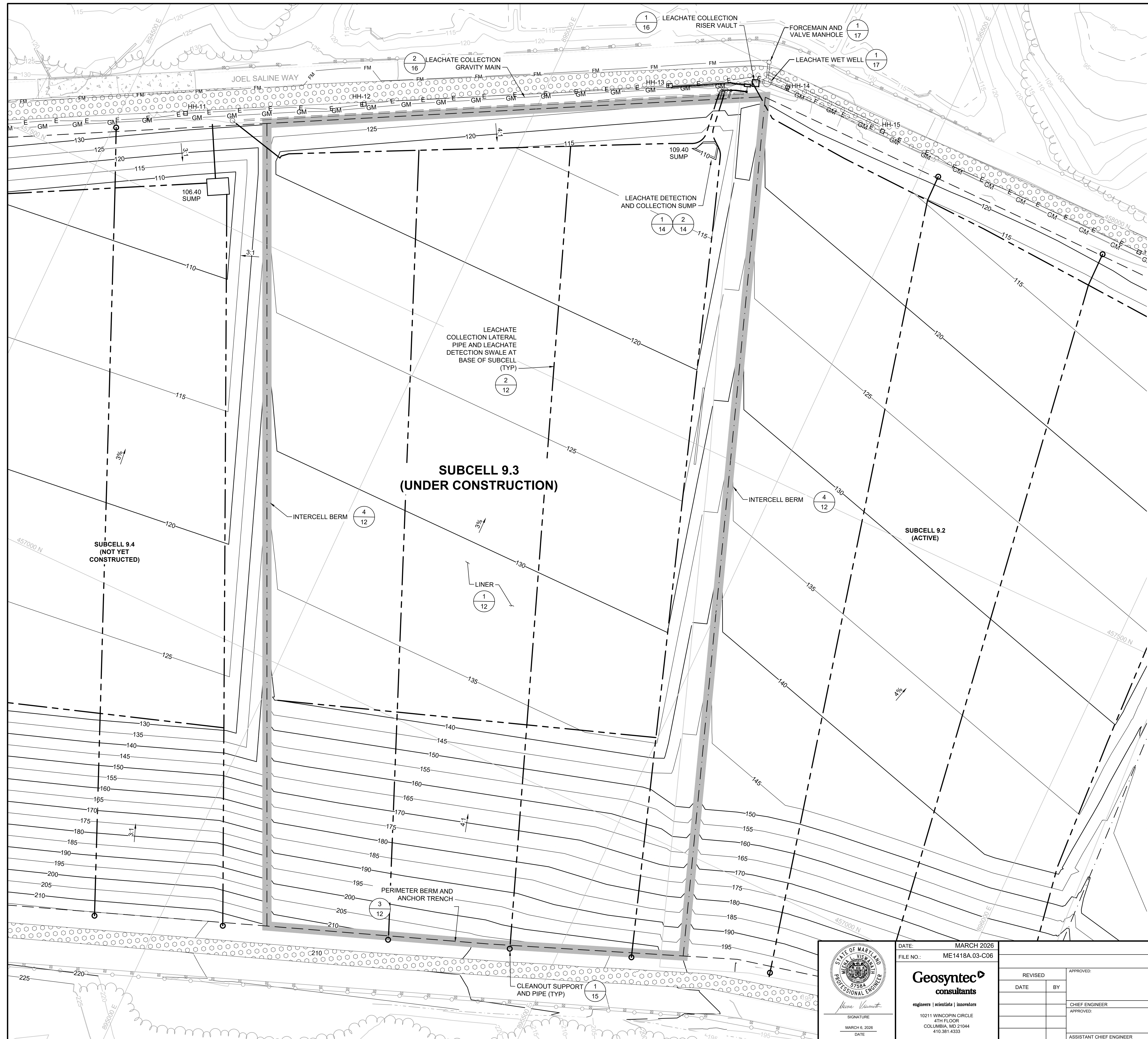


- NOTES:
1. SEE DRAWING NO. 2 FOR GENERAL NOTES.
 2. INFRASTRUCTURE AND LINER GRADES SHOWN FOR SUBCELLS 9.1 AND 9.2 ARE AS-BUILT GRADES; INFRASTRUCTURE AND LINER GRADES SHOWN FOR SUBCELLS 9.3 THROUGH 9.5 ARE NOT YET CONSTRUCTED.
 3. CLEANOUTS SHALL BE ADDED ALONG THE GRAVITY MAIN IF THE DISTANCE BETWEEN LEACHATE COLLECTION RISER VAULTS EXCEEDS 800 FEET.



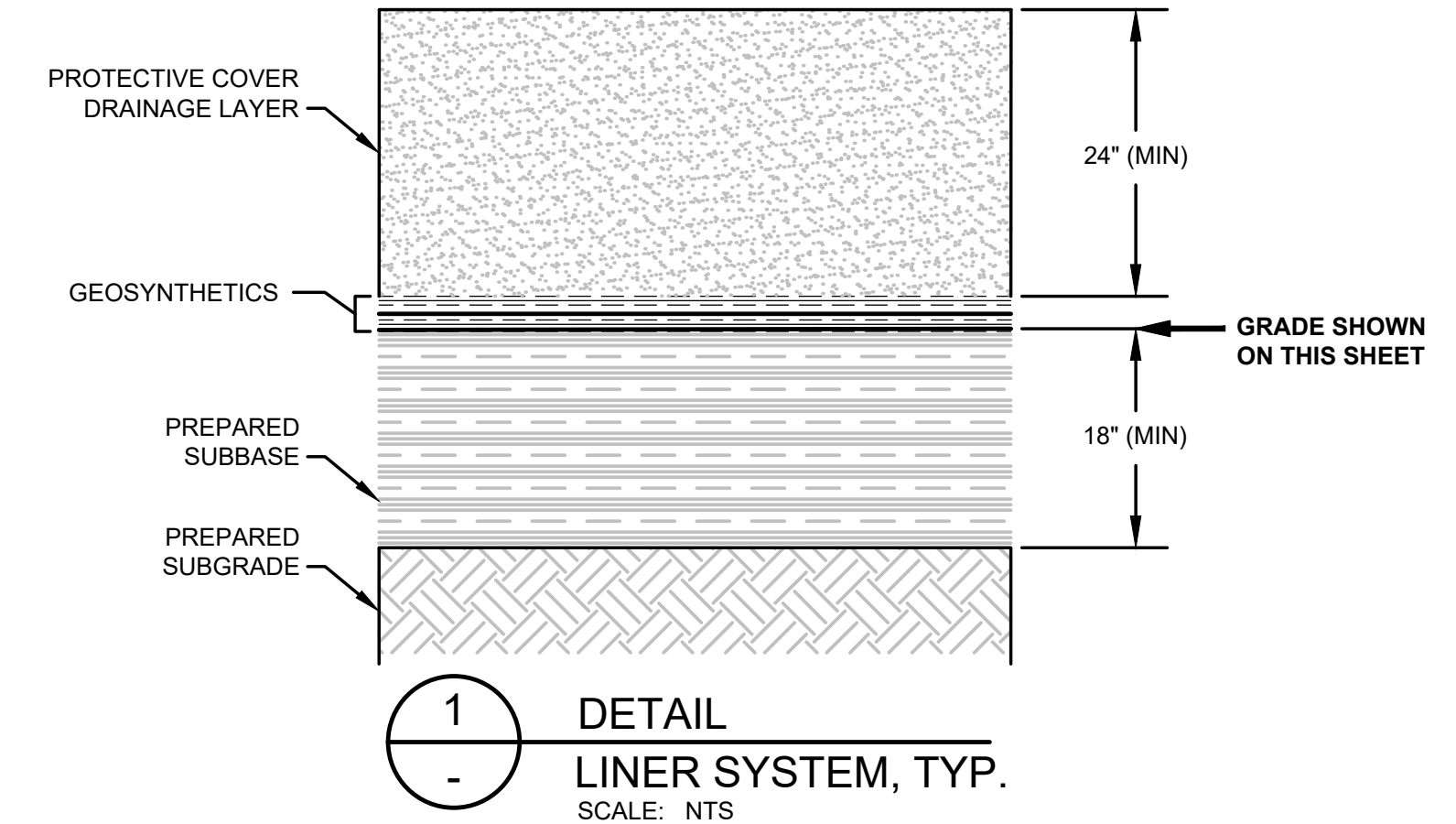
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	DATE: MARCH 2026	ANNE ARUNDEL COUNTY																																
	FILE NO.: ME1418A.03-C04	DEPARTMENT OF PUBLIC WORKS																																
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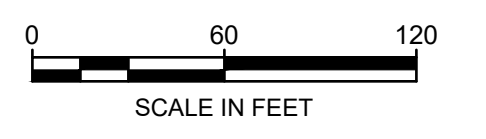


LEGEND

	PROPERTY BOUNDARY
	EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
	PROPOSED SUBBASE CONTOUR (FEET-MSL)
	STRUCTURE / BUILDING
	FENCE
	PAVED DRIVE
	GRAVEL DRIVE
	TREELINE
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	RIPRAP
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	LEACHATE COLLECTION PIPE
	LIMIT OF SUBCELL LINER
	CONCRETE MOMENT SLAB

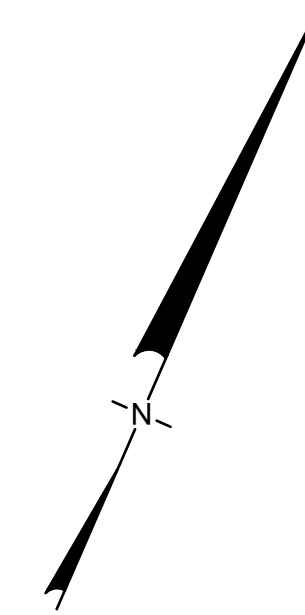
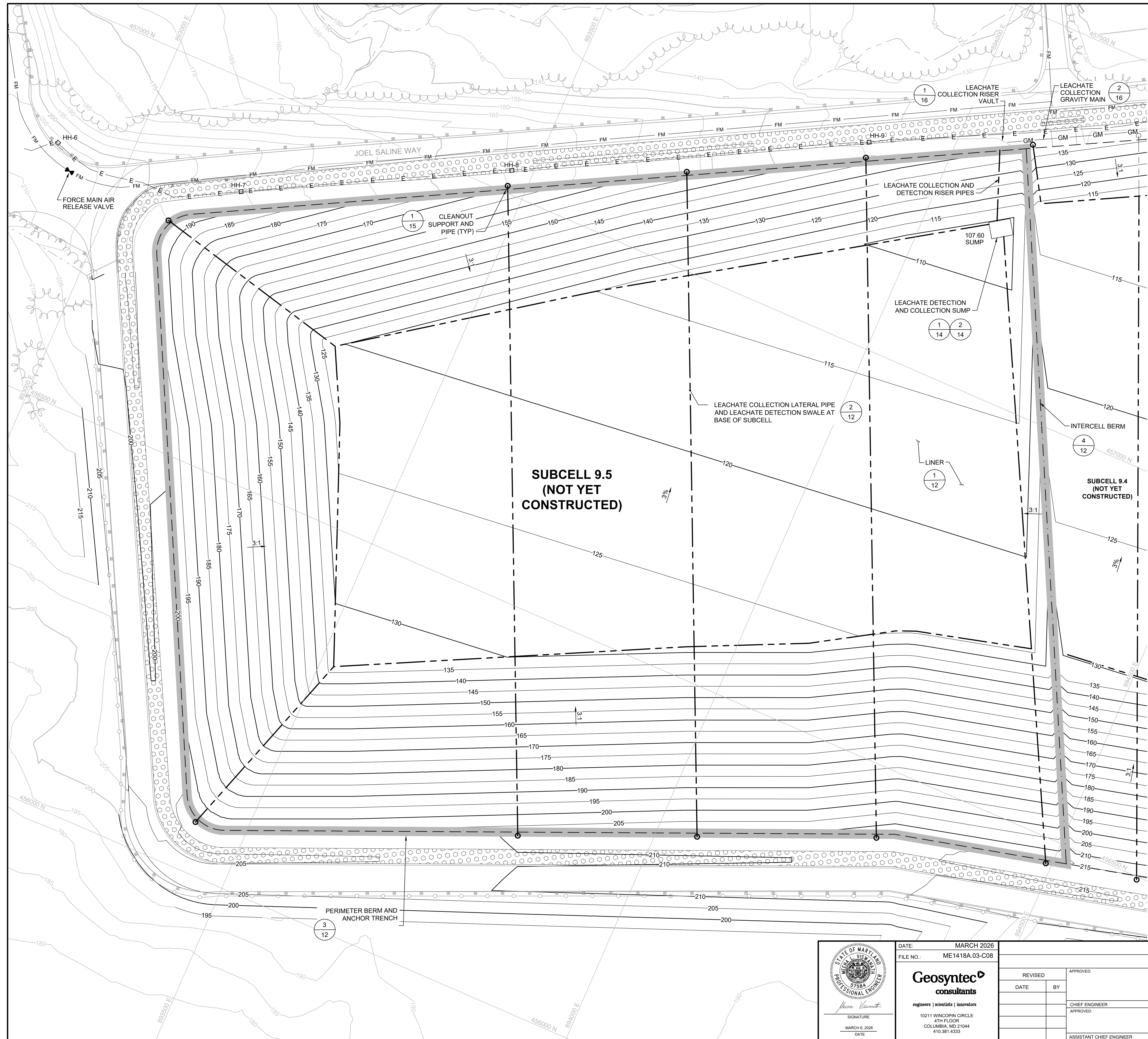


- NOTES:
- SEE DRAWING NO. 2 FOR GENERAL NOTES.
 - INFRASTRUCTURE AND LINER GRADES SHOWN FOR SUBCELLS 9.1 AND 9.2 ARE AS-BUILT GRADES; INFRASTRUCTURE AND LINER GRADES SHOWN FOR SUBCELLS 9.3 THROUGH 9.5 ARE NOT YET CONSTRUCTED.
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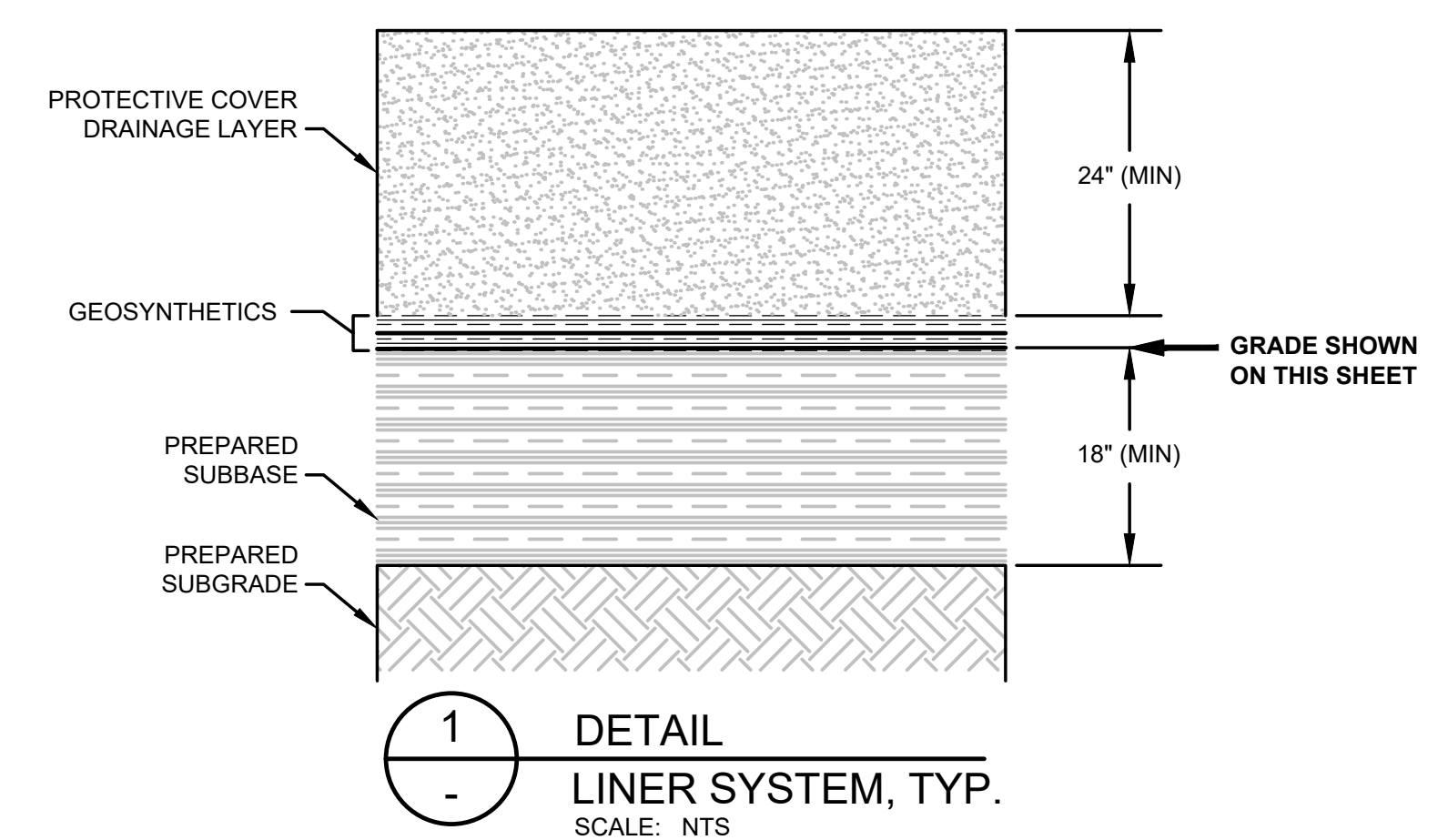
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Geosyntec consultants engineers scientists innovators 10211 WINDCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	REVISIONS:	APPROVED:	PROJECT:
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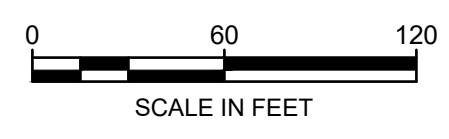


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	PROPOSED SUBBASE CONTOUR (FEET-MSL)
	STRUCTURE / BUILDING
	FENCE
	PAVED DRIVE
	GRAVEL DRIVE
	TREELINE
	STREAM / WATERLINE
	STORMWATER CULVERT
	RIPRAP
	CELL 9 FOOTPRINT
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	GUARDRAIL
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	LEACHATE COLLECTION PIPE
	LIMIT OF SUBCELL LINER

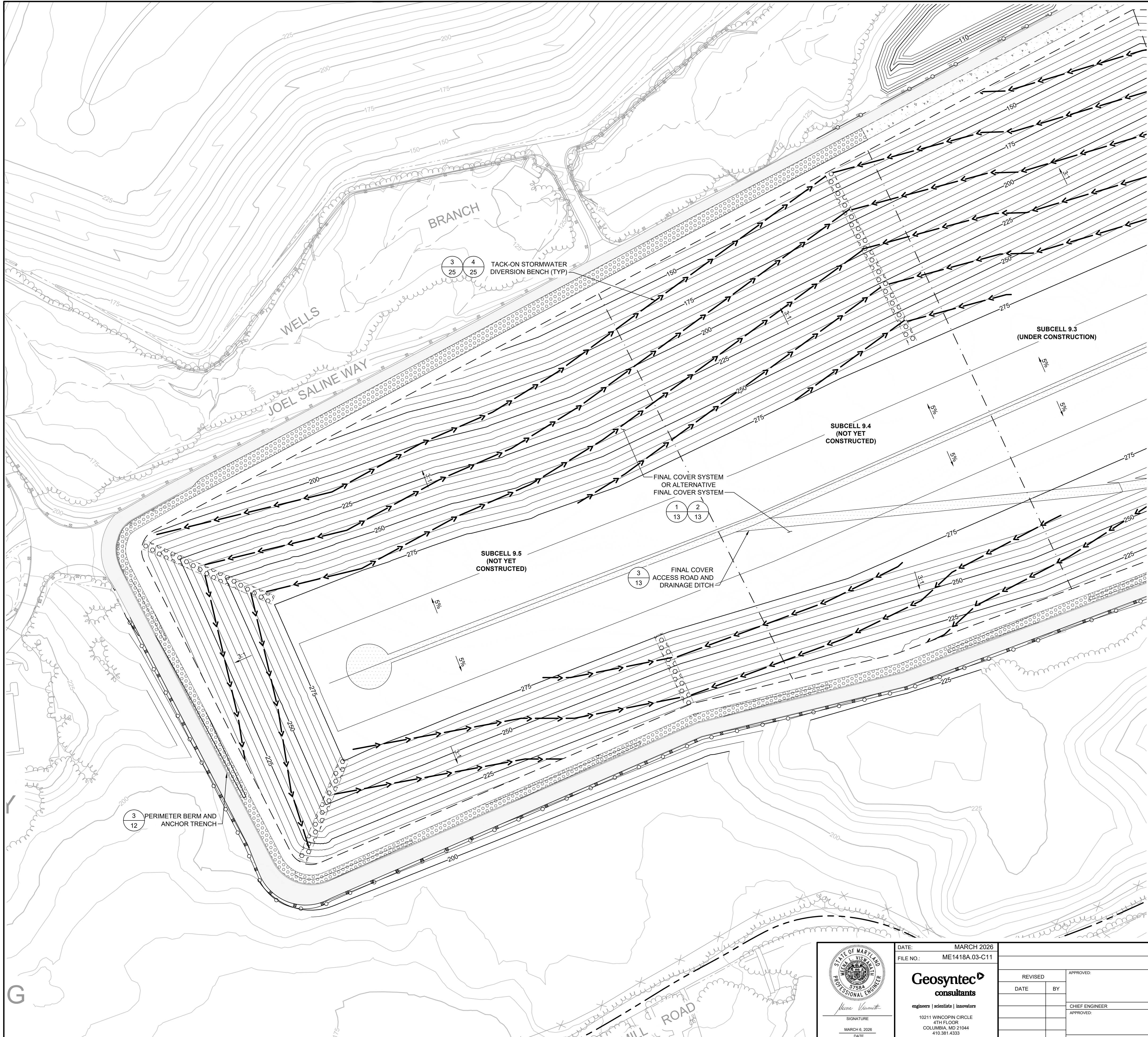


- NOTES:
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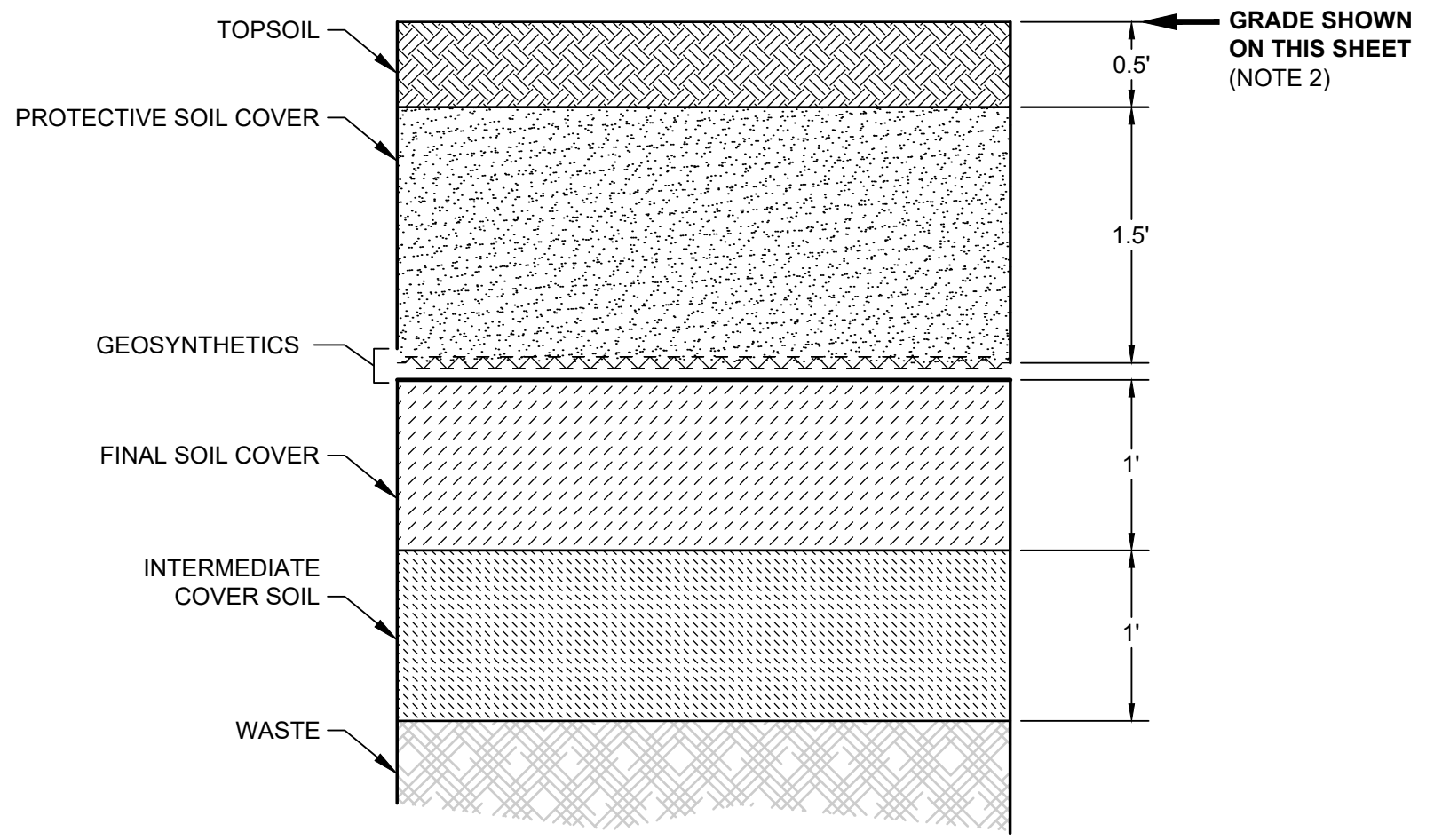
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	APPROVED:	APPROVED:	TITLE:
ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY	SCALE: NOTED	LINER AND LEACHATE MANAGEMENT SYSTEMS-SUBCELL 9.5
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		PROJECT NO.: ME1418A	



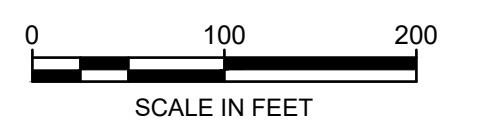
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	GRAVEL DRIVE
	TREELINE
	STREAM / WATERLINE
	CELL 9 FOOTPRINT
	SUBCELL BOUNDARY
	LITTER FENCE
	GUARDRAIL
	RIPRAP
	CONCRETE FOREBAY
	DOWNCHUTE
	TACK-ON STORMWATER DIVERSION BENCH
	ACCESS ROAD
	PERIMETER ROAD



1 **DETAIL**
COVER SYSTEM (TYP.)
SCALE: NTS

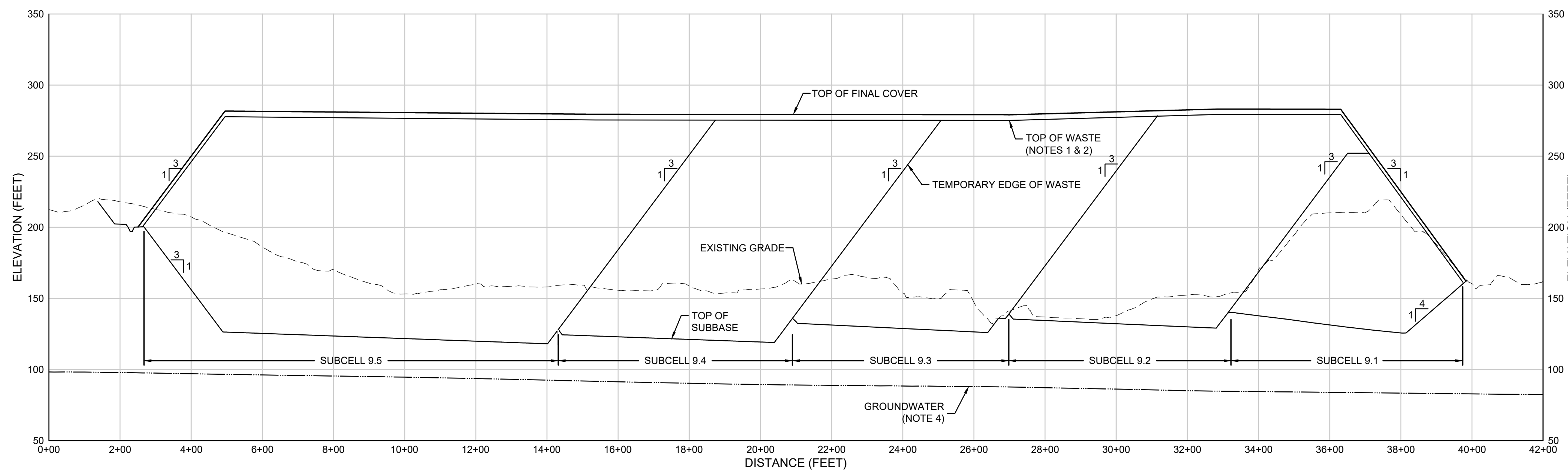
- NOTES:**
- SEE SHEET 2 FOR GENERAL NOTES.
 - THE FINAL COVER ELEVATIONS PRESENTED ON THIS SHEET APPLY WHETHER THE FINAL COVER SYSTEM OR THE ALTERNATIVE FINAL COVER SYSTEM IS SELECTED (SEE SHEET 13). THE FINAL COVER SYSTEM SHOWN IN DETAIL 1 IS FOR ILLUSTRATION PURPOSES ONLY.



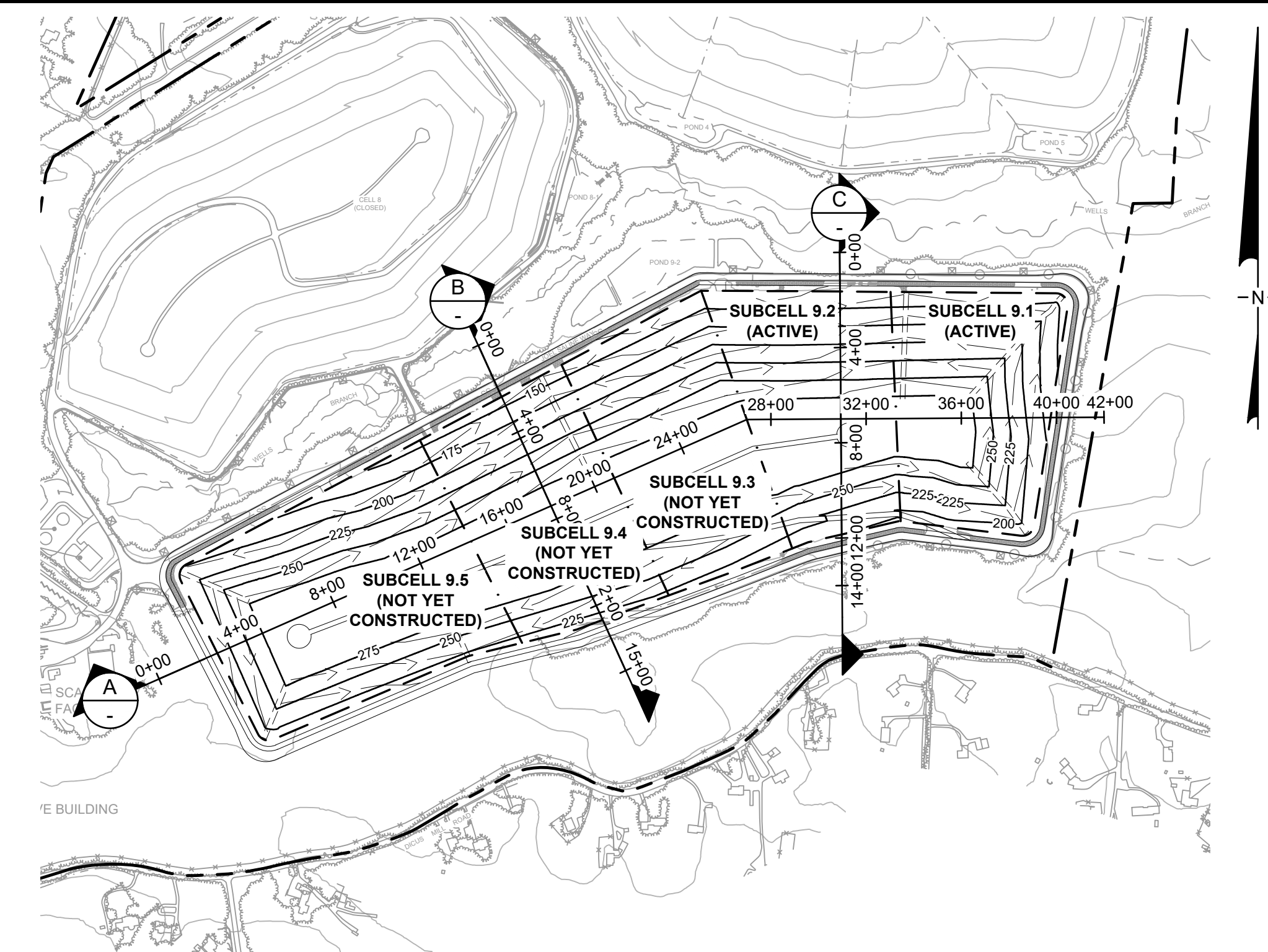
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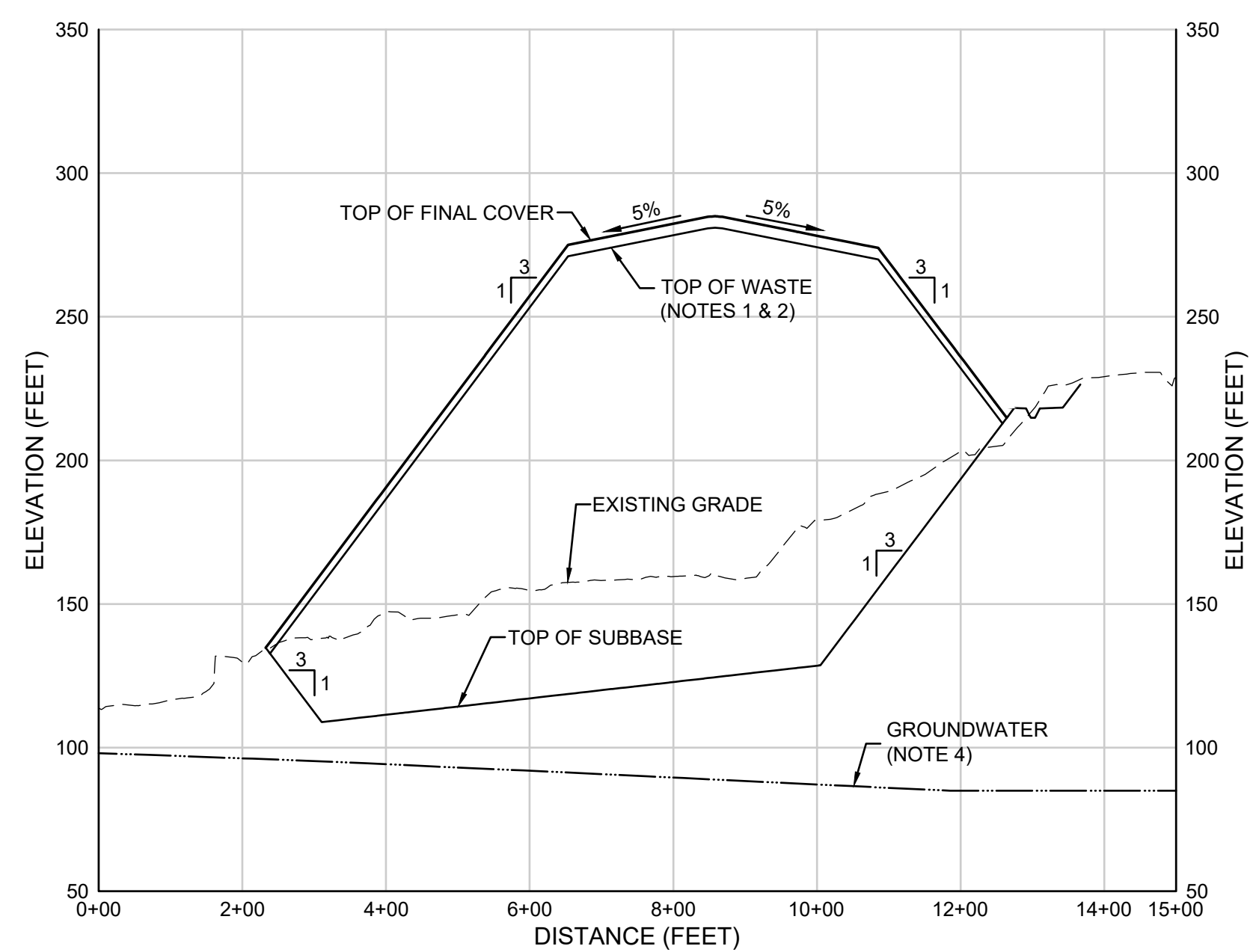
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	Geosyntec consultants engineers scientists innovators 10211 WNWCPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	<table border="1"> <tr> <td>REVISIONS</td> <td>APPROVED:</td> <td>DATE:</td> <td>APPROVED:</td> <td>DATE:</td> </tr> <tr> <td>DATE</td> <td>BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>CHIEF ENGINEER</td> <td></td> <td>PROJECT MANAGER</td> <td></td> </tr> <tr> <td></td> <td>APPROVED:</td> <td>DATE:</td> <td>APPROVED:</td> <td>DATE:</td> </tr> <tr> <td></td> <td>ASSISTANT CHIEF ENGINEER</td> <td></td> <td>CHIEF RIGHT-OF-WAY</td> <td></td> </tr> </table>	REVISIONS	APPROVED:	DATE:	APPROVED:	DATE:	DATE	BY					CHIEF ENGINEER		PROJECT MANAGER			APPROVED:	DATE:	APPROVED:	DATE:		ASSISTANT CHIEF ENGINEER		CHIEF RIGHT-OF-WAY		SCALE: NOTED DRAWN BY: BW/MJ CHECKED BY: MV DRAWING NO.: 10A OF 30 PROJECT NO.: ME1418A
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DATE	BY																											
	CHIEF ENGINEER		PROJECT MANAGER																									
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	ASSISTANT CHIEF ENGINEER		CHIEF RIGHT-OF-WAY																									



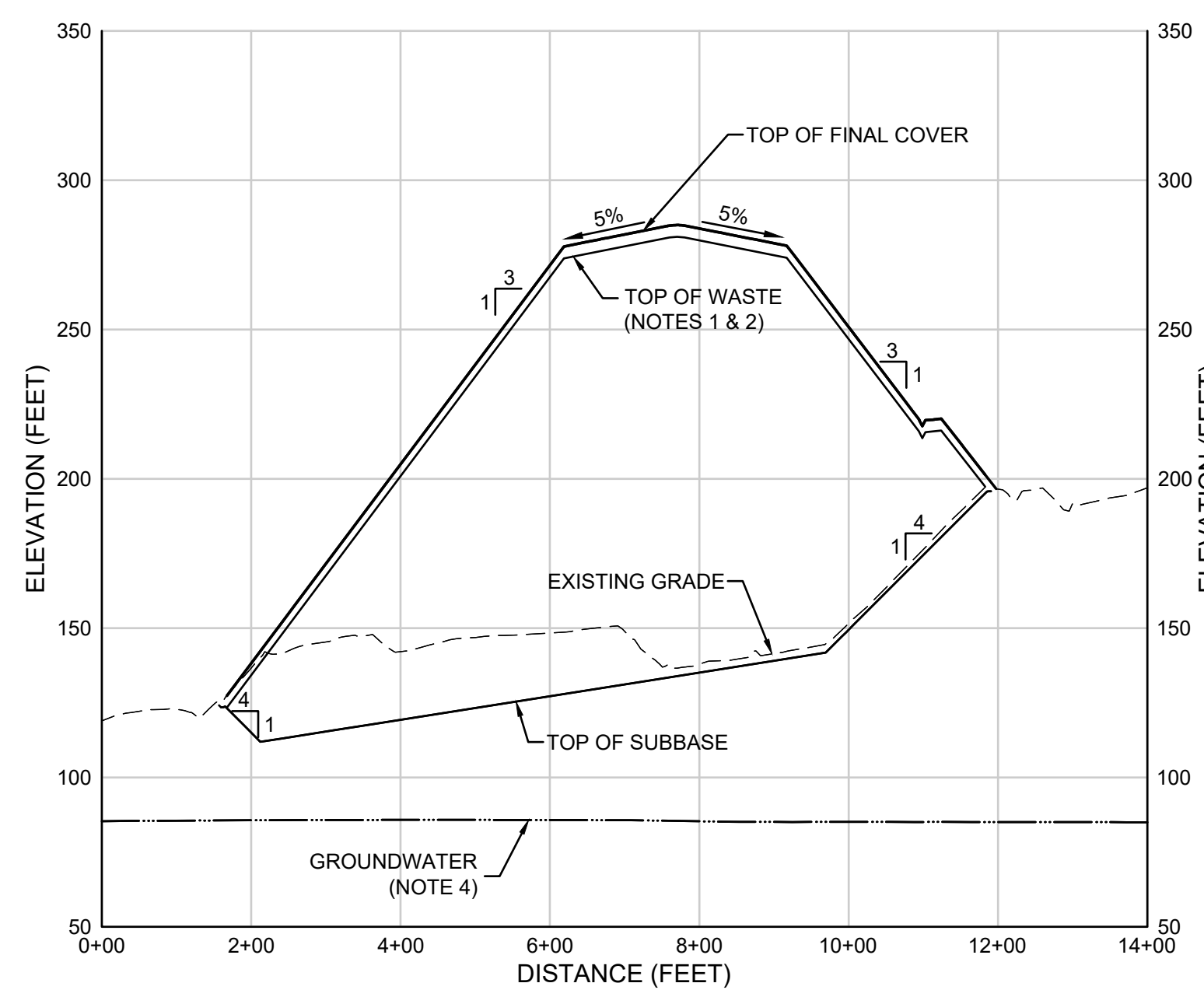
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 VERTICAL: 1" = 50'
 VERTICAL EXAGGERATION: 4x



CROSS SECTION LOCATION PLAN
 SCALE IN FEET



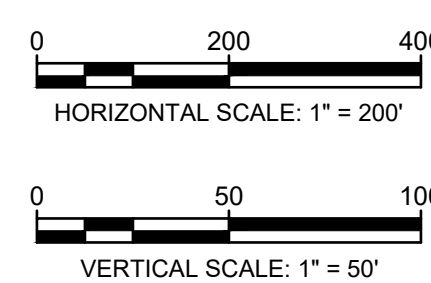
B PROFILE
 HORIZONTAL SCALE: 1" = 200'
 VERTICAL: 1" = 50'
 VERTICAL EXAGGERATION: 4x



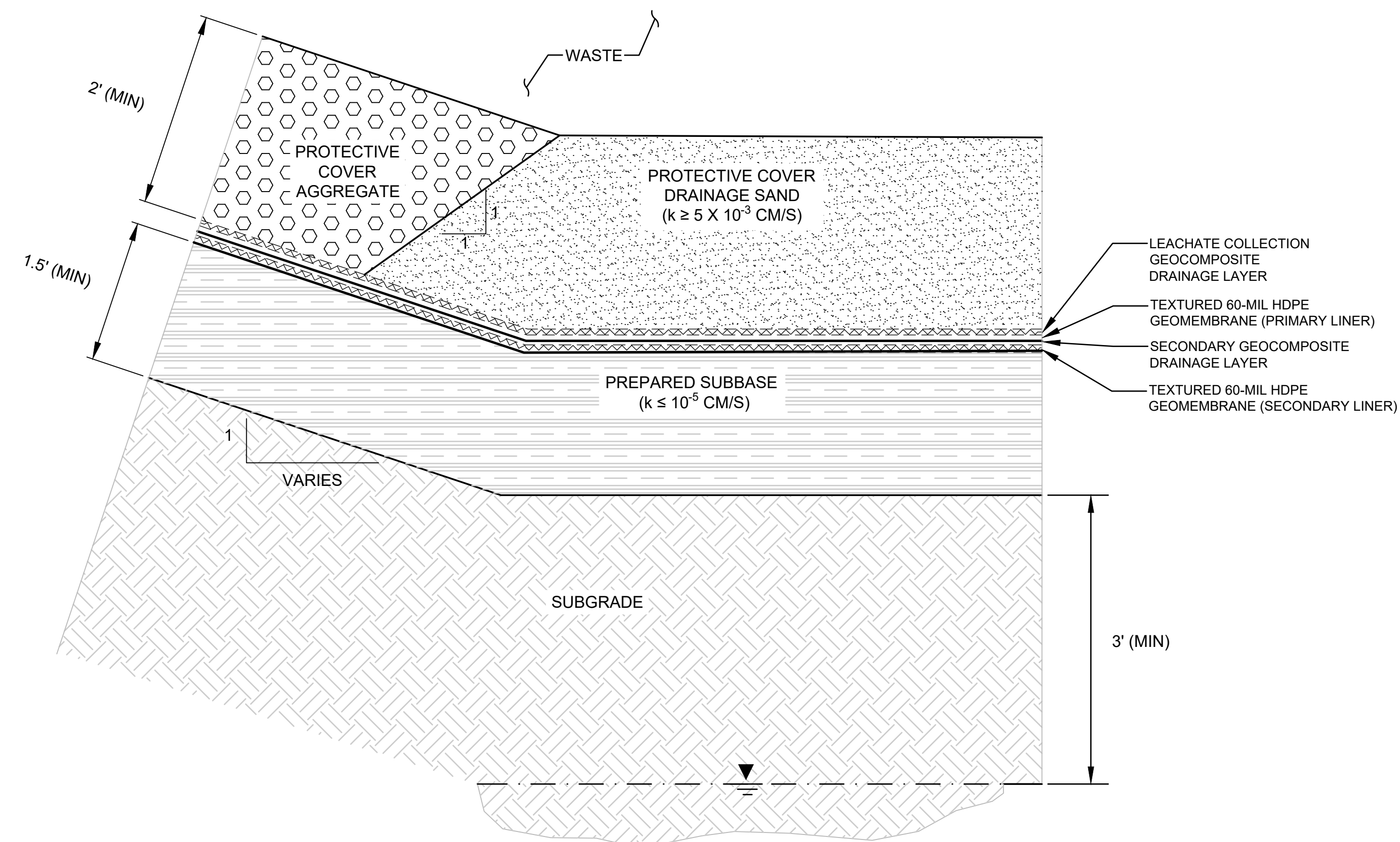
C PROFILE
 HORIZONTAL SCALE: 1" = 200'
 VERTICAL: 1" = 50'
 VERTICAL EXAGGERATION: 4x

- NOTES:
- TOP OF WASTE SHOWN HERE APPLIES IF FINAL COVER SYSTEM IS SELECTED. IF ALTERNATIVE FINAL COVER (SHEET 13) IS SELECTED, TOP OF WASTE WILL BE APPROXIMATELY 1.5 FEET HIGHER.
 - TOP OF WASTE SHOWN HERE REPRESENTS THE SURFACE ON WHICH FINAL COVER GEOSYNTHETICS WILL BE INSTALLED AND INCORPORATES THE INTERMEDIATE SOIL COVER AND THE FINAL SOIL COVER.
 - THE FINAL COVER ELEVATIONS PRESENTED ON THIS SHEET APPLY WHETHER THE FINAL COVER SYSTEM OR THE ALTERNATIVE FINAL COVER SYSTEM IS SELECTED (SEE SHEET 13). THE FINAL COVER SYSTEM SHOWN HERE IS FOR ILLUSTRATION PURPOSES ONLY.
 - GROUNDWATER DATA WAS RECEIVED FROM ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS, BUREAU OF WASTE MANAGEMENT SERVICES.

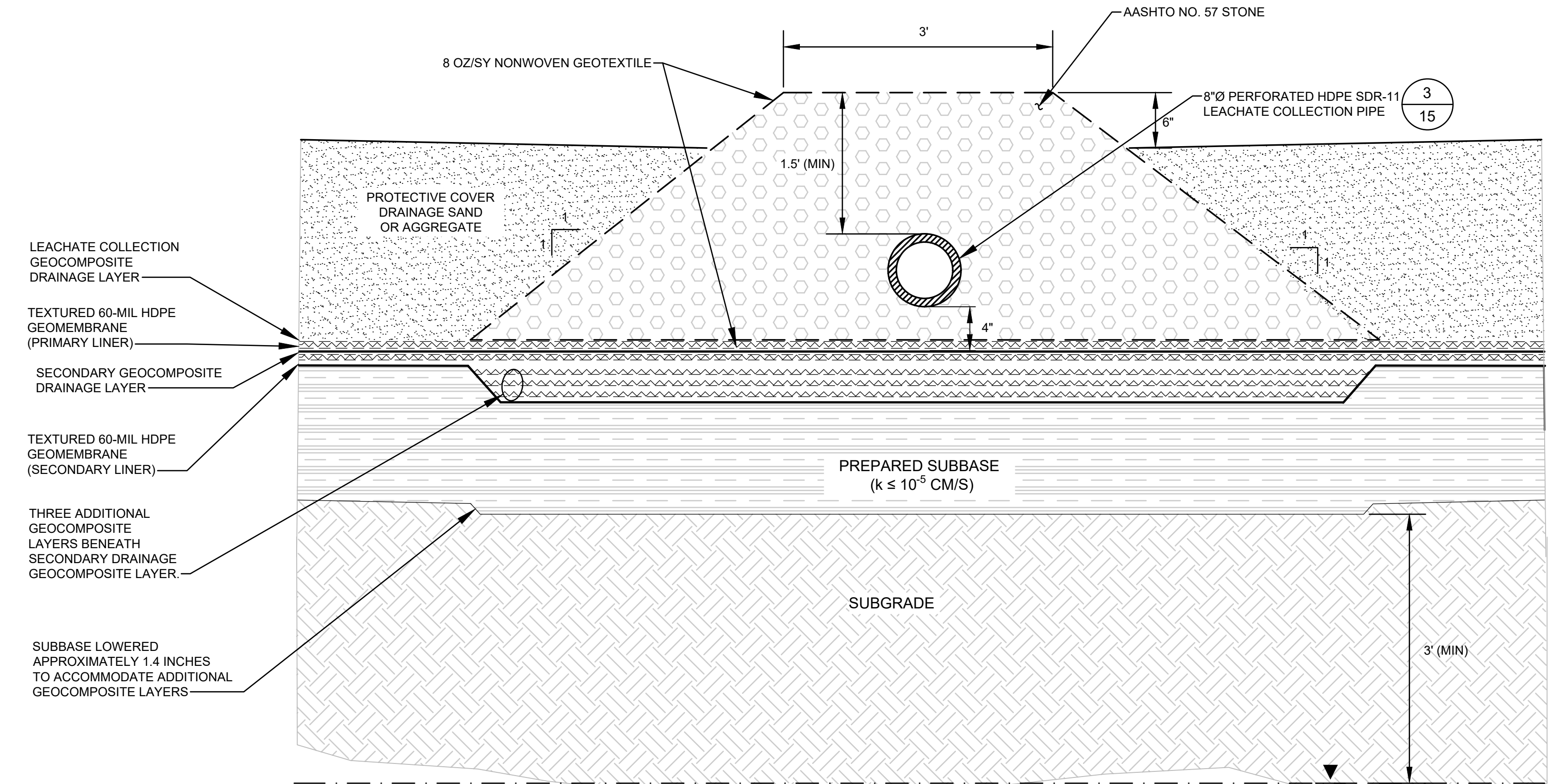
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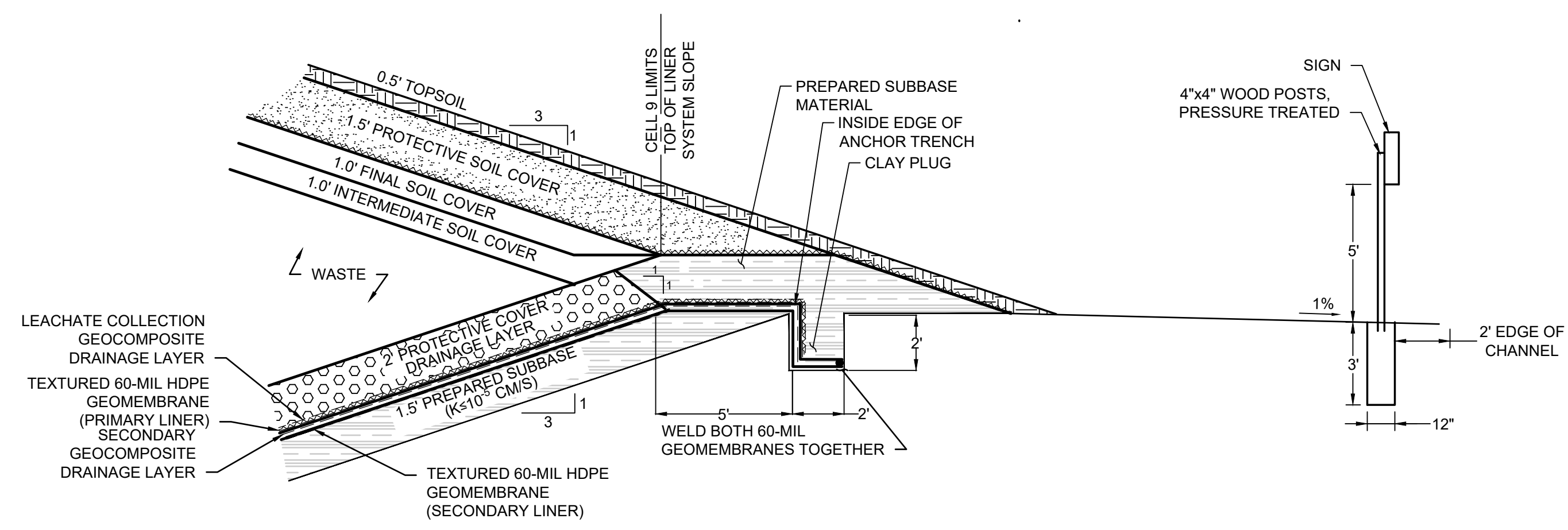
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		FILE NO.: ME1418A.03-C12				
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SIGNATURE: <i>Neve Viamonte</i> DATE: MARCH 6, 2026		APPROVED: DATE ASSISTANT CHIEF ENGINEER	APPROVED: DATE CHIEF RIGHT-OF-WAY	DRAWING NO.: 11 OF 30 PROJECT NO.: ME1418A	TITLE: LANDFILL SECTIONS	



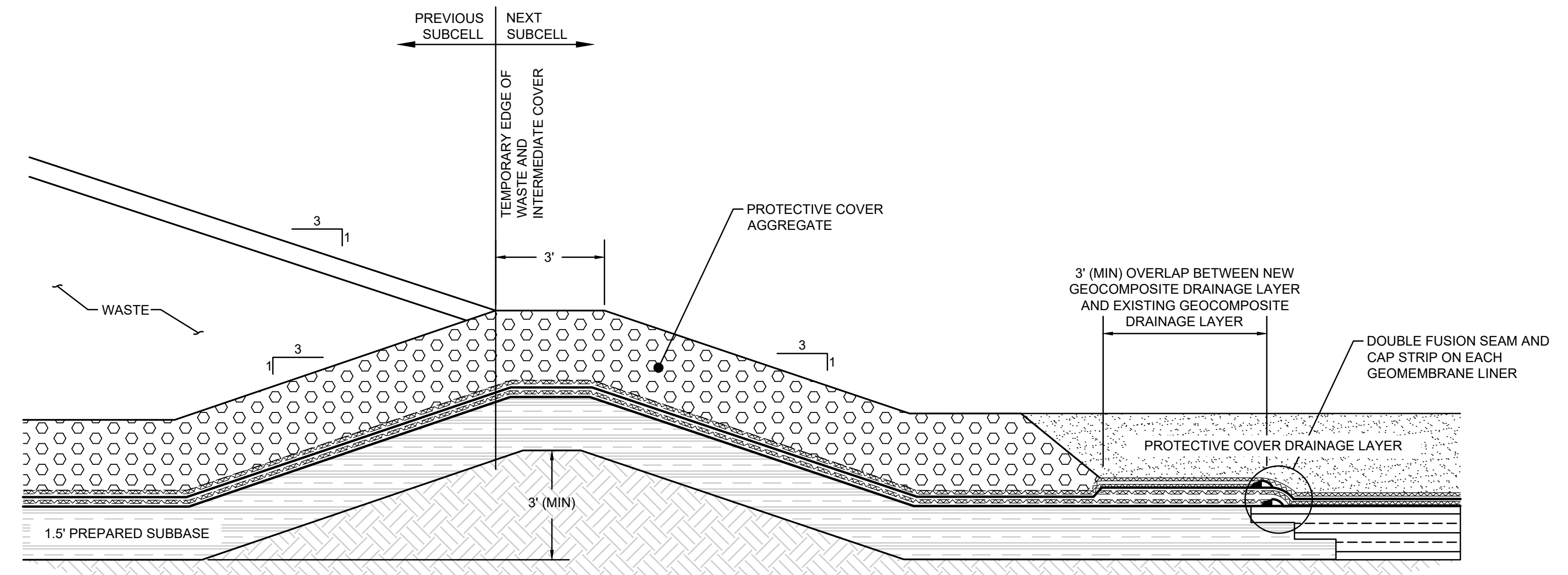
1
5
DETAIL
LINER SYSTEM
SCALE: NTS



2
5
DETAIL
LEACHATE COLLECTION LATERAL PIPE AND
LEACHATE DETECTION SWALE
SCALE: NTS



3
5
DETAIL
PERIMETER BERM AND ANCHOR TRENCH
SCALE: NTS

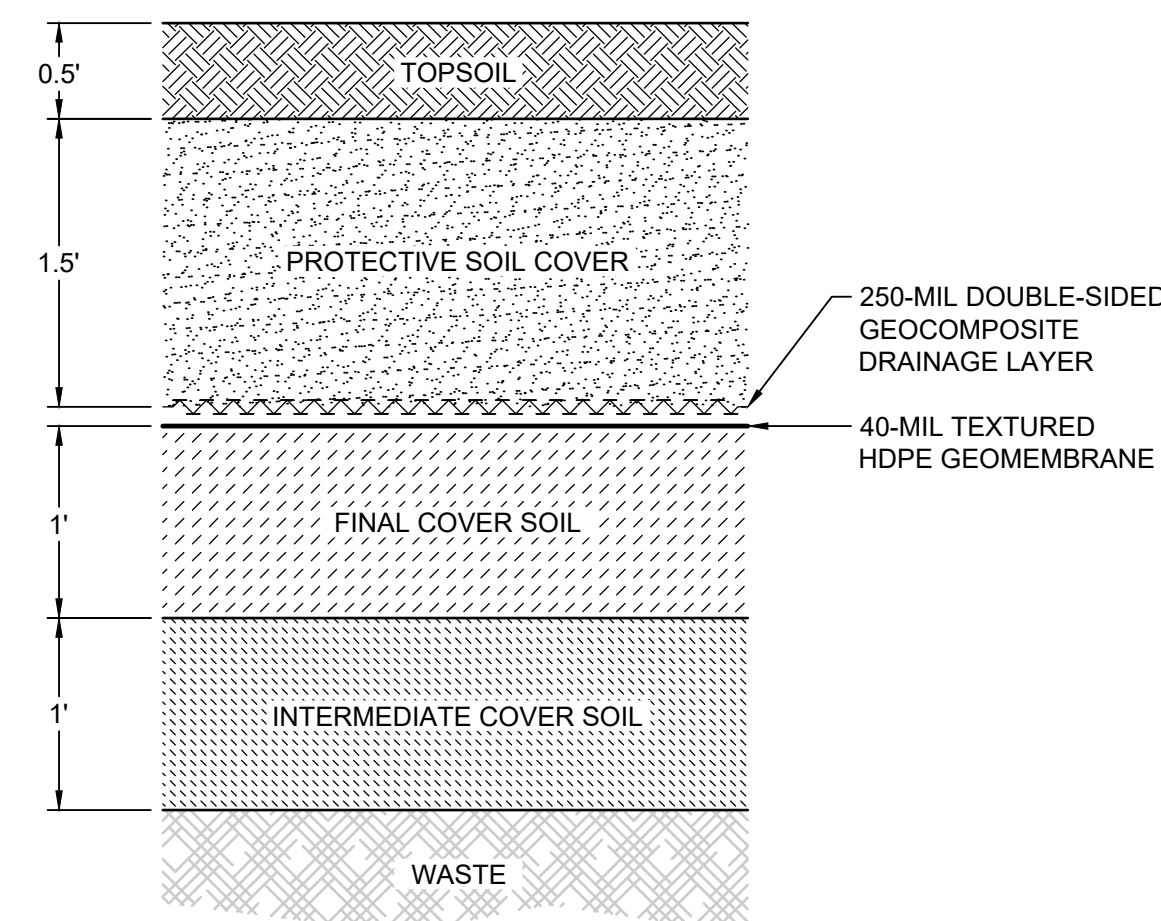


4
5
DETAIL
INTERCELL BERM
SCALE: NTS

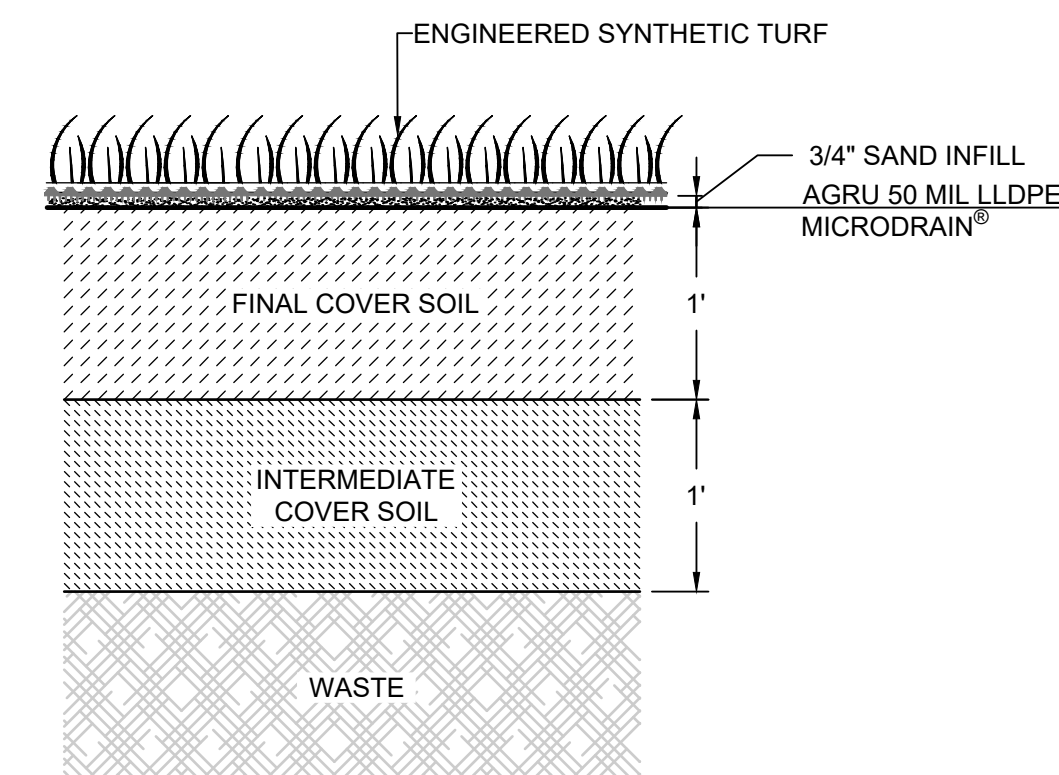
NOTES:
1. SUBCELLS 9.1 AND 9.2, WHICH ARE ALREADY CONSTRUCTED, AND SUBCELL 9.3, WHICH IS CURRENTLY UNDER CONSTRUCTION, HAVE LINER SIDESLOPES OF 4H:1V.

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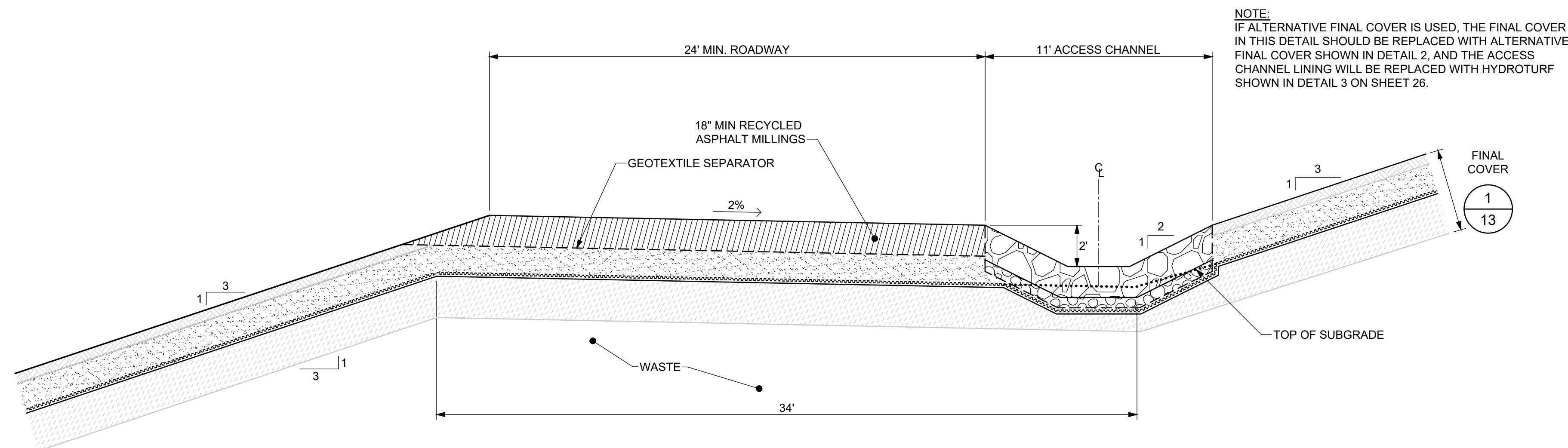
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	DATE:	BY:	DATE:
	CHIEF ENGINEER	PROJECT MANAGER	DATE:
	APPROVED:	APPROVED:	DATE:
ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY	SCALE: NOTED	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY
10211 WNCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	DRAWN BY: BW/MJ	CHECKED BY: MV	TITLE: LINER SYSTEM AND FINAL COVER DETAILS I
MARCH 8, 2026	DRAWING NO.: 12 OF 30	PROJECT NO.: ME1418A	



1
10
DETAIL
FINAL COVER
SCALE: NTS



2
10
DETAIL
ALTERNATIVE FINAL COVER
(CLOSURETURF)
SCALE: NTS



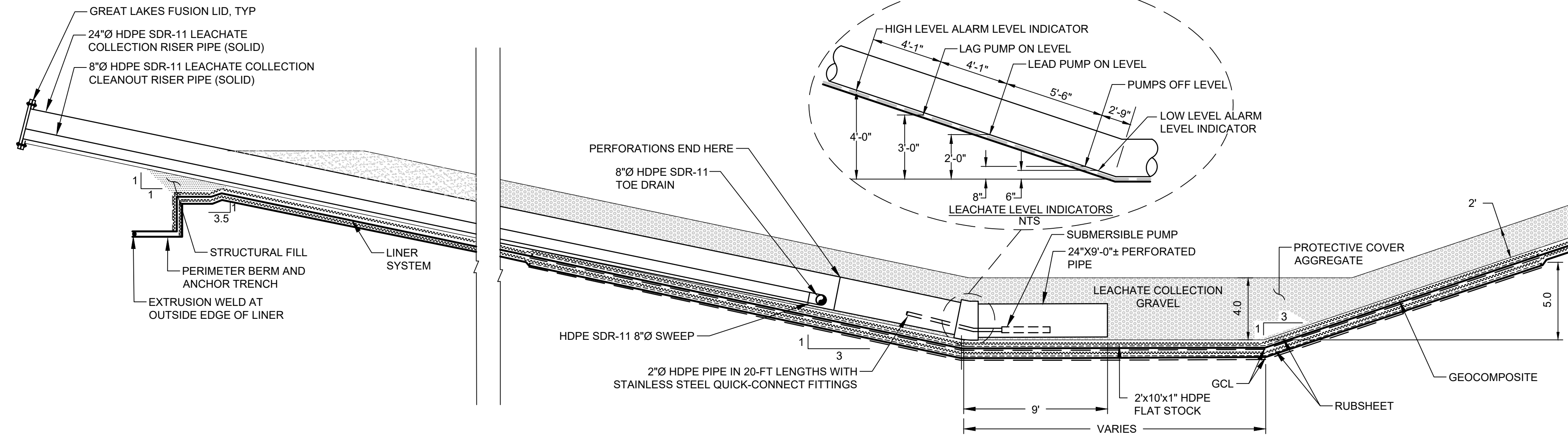
NOTE:
IF ALTERNATIVE FINAL COVER IS USED, THE FINAL COVER IN THIS DETAIL SHOULD BE REPLACED WITH ALTERNATIVE FINAL COVER SHOWN IN DETAIL 2, AND THE ACCESS CHANNEL LINING WILL BE REPLACED WITH HYDROTURF SHOWN IN DETAIL 3 ON SHEET 26.

3
10
DETAIL
FINAL COVER ACCESS ROAD AND DRAINAGE DITCH
SCALE: NTS

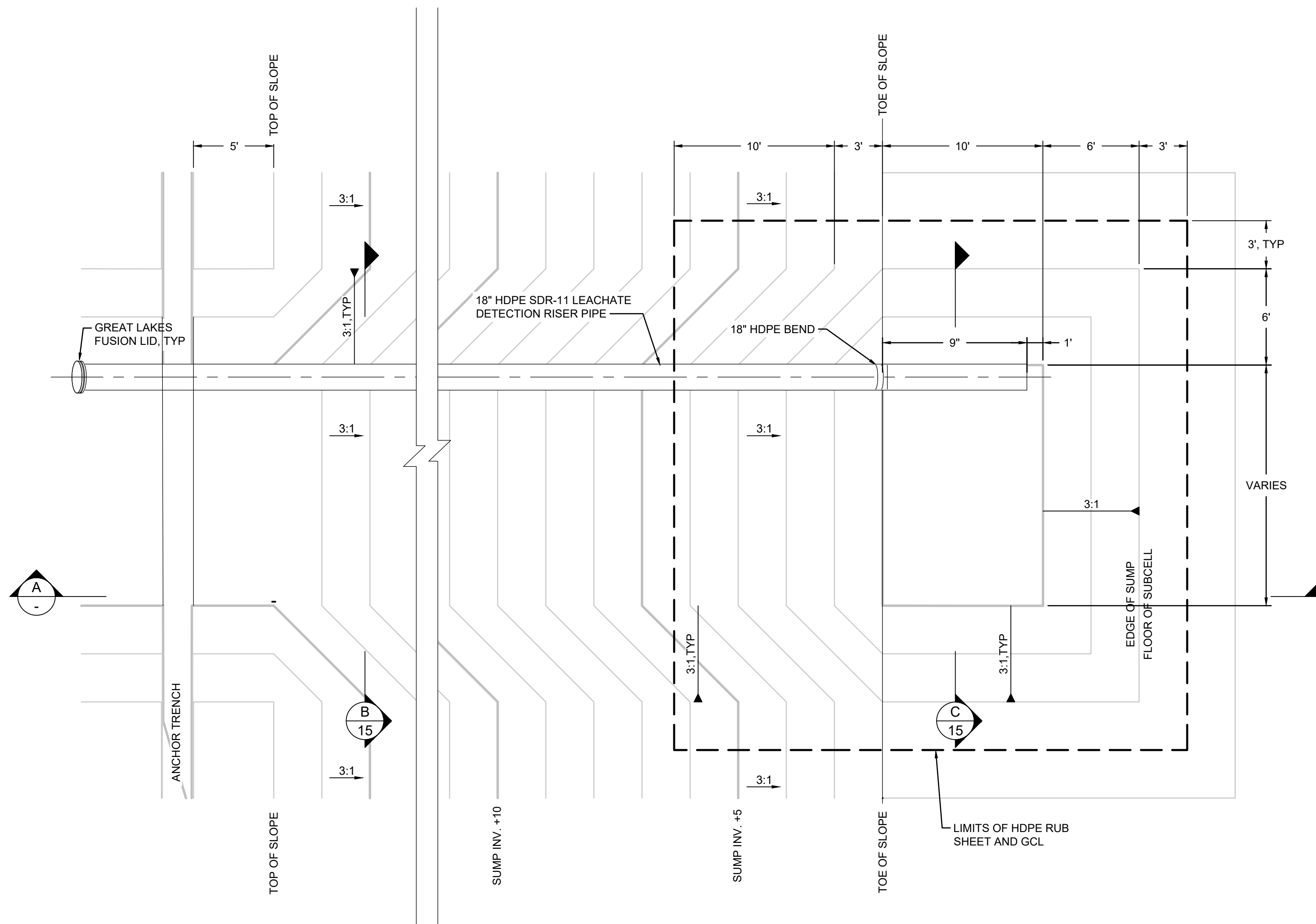
- NOTES:
- ALTERNATIVE FINAL COVER IS COMMERCIALY KNOWN AS CLOSURETURF®, MANUFACTURED BY WATERSHED GEO, LLC.

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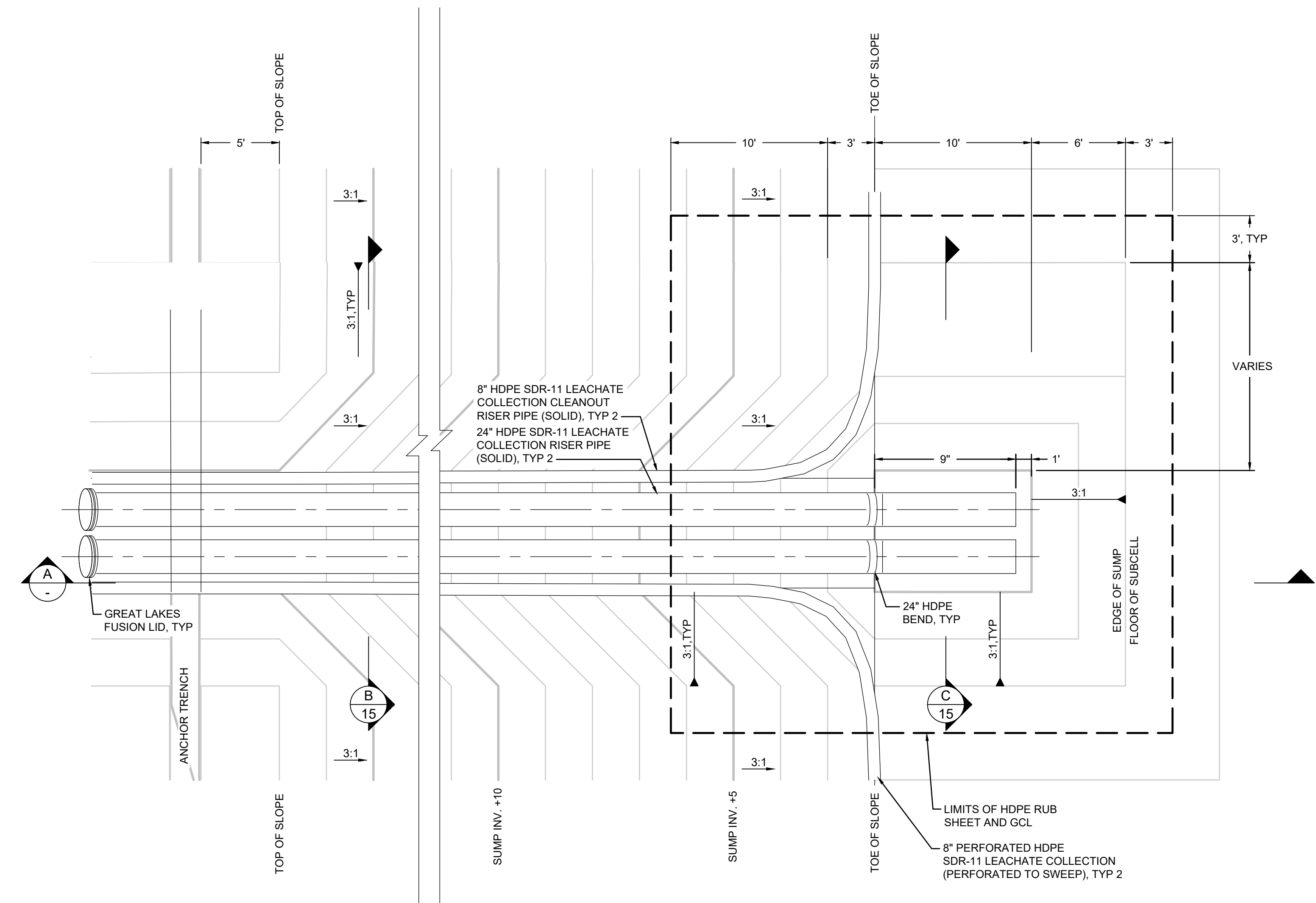
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		REVISIONS:	APPROVED:	DATE:
		DATE:	BY:	DATE:
10211 WNW COPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	CHIEF ENGINEER	PROJECT MANAGER	DATE:	
	APPROVED:	APPROVED:	DATE:	
	ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY		
	SCALE: NOTED	PROJECT:	CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY	
	DRAWN BY: BW/MJ	TITLE:	LINER SYSTEM AND FINAL COVER DETAILS II	
	CHECKED BY: MV	DRAWING NO.: 13 OF 30		
	PROJECT NO.: ME1418A			



A
14 **DETAIL**
LEACHATE COLLECTION SUMP AND RISER PIPES
 SCALE: NTS



1
5 **PLAN**
LEACHATE DETECTION SUMP AND RISERS
 SCALE: NTS

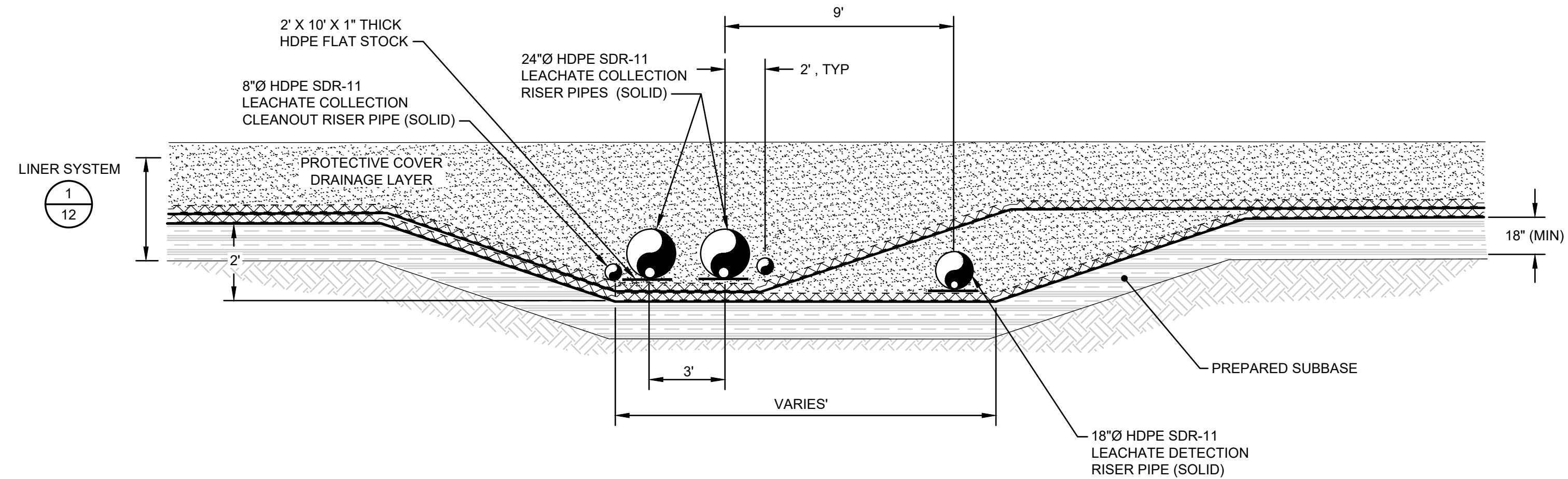


2
5 **PLAN**
LEACHATE COLLECTION SUMP AND RISERS
 SCALE: NTS

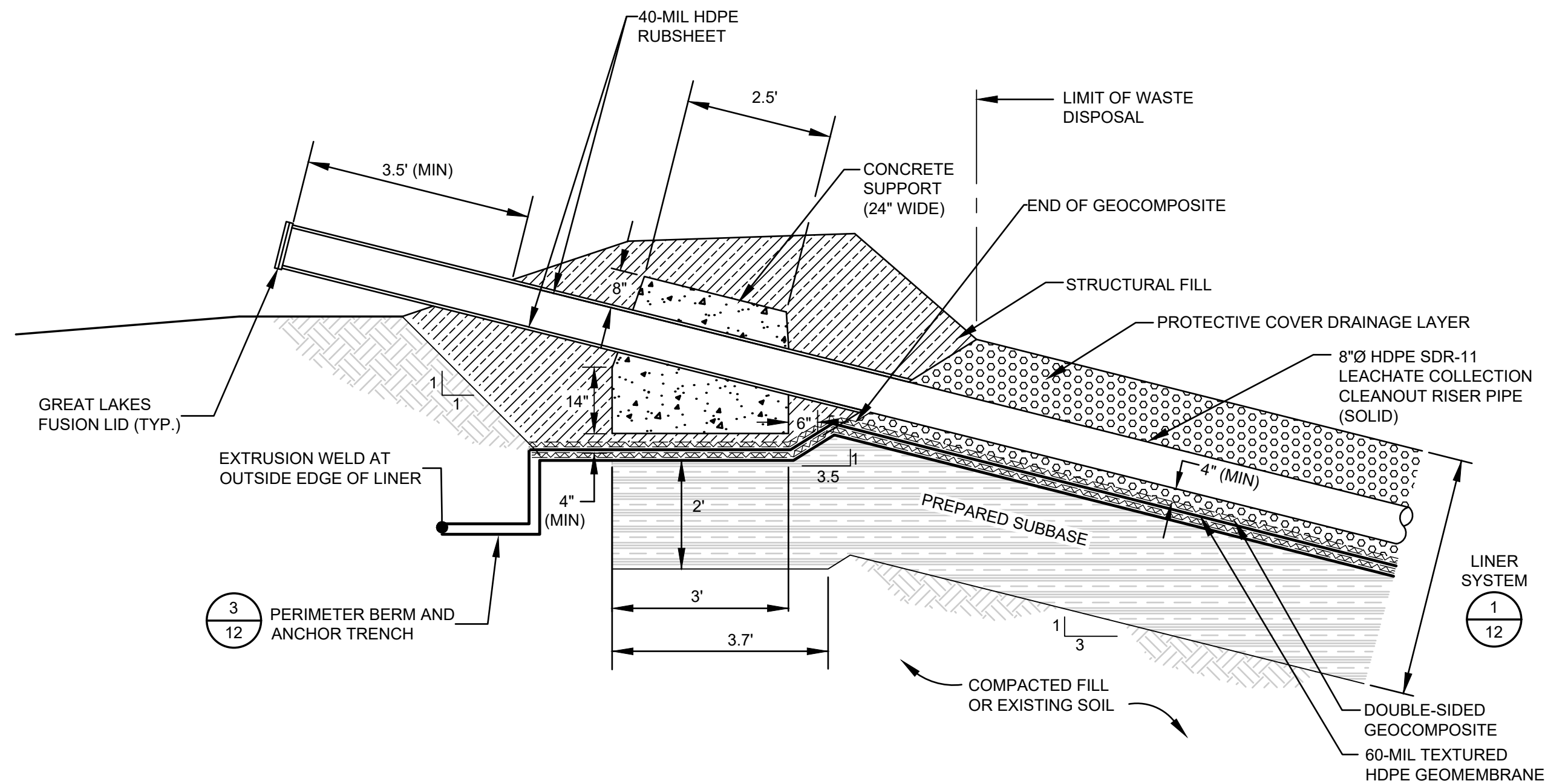
NOTES:

- SUBCELLS 9.1 AND 9.2, WHICH ARE ALREADY CONSTRUCTED, AND SUBCELL 9.3, WHICH IS CURRENTLY UNDER CONSTRUCTION, HAVE LINER SIDESLOPES OF 4H:1V.
- EXACT DIMENSIONS OF SUMPS WILL VARY BETWEEN SUBCELLS, DEPENDING ON SUBCELL GEOMETRY.

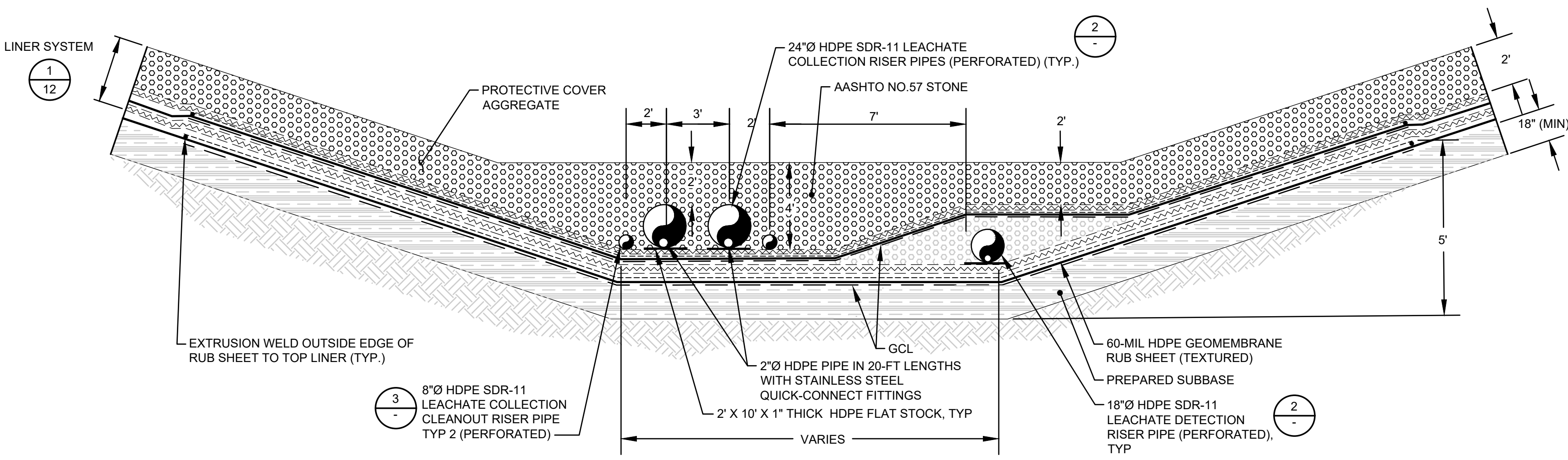
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	FILE NO.: ME1418A.03-C15	DEPARTMENT OF PUBLIC WORKS	
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	DATE:	BY:	DATE:
	CHIEF ENGINEER	PROJECT MANAGER	DATE:
	APPROVED:	APPROVED:	DATE:
ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY	SCALE: NOTED	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY
10211 WINCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	DRAWN BY: BW/MJ	CHECKED BY: MV	TITLE: LEACHATE SUMP AND RISER PLAN
	DRAWING NO.: 14 OF 30	PROJECT NO.: ME1418A	



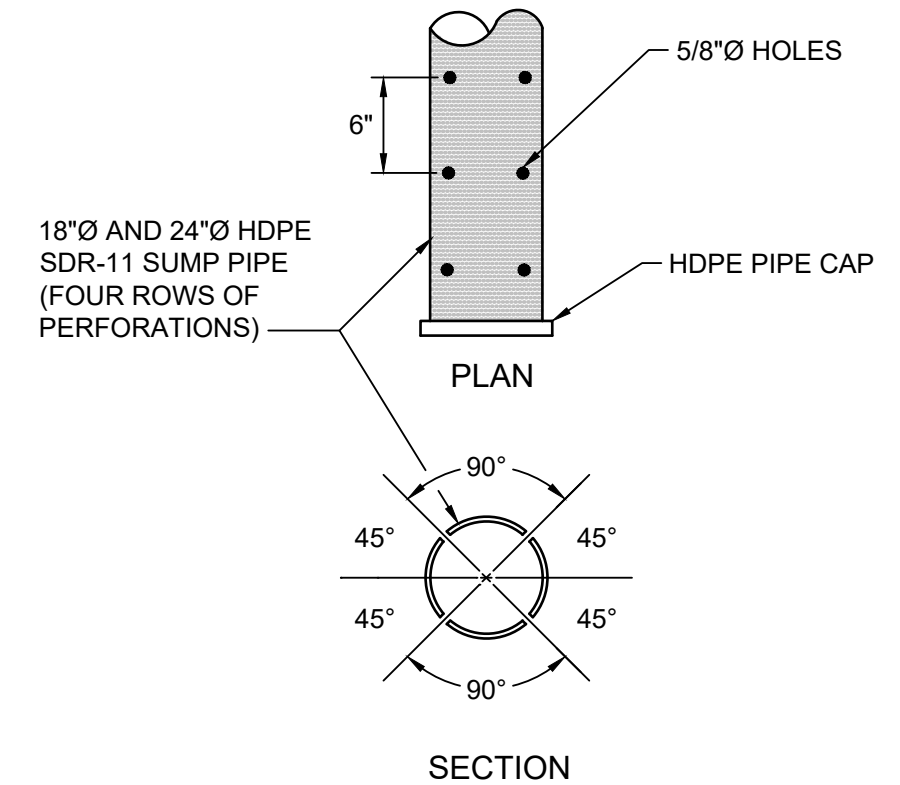
B SECTION
14 LEACHATE COLLECTION DETECTION RISER
 SCALE: NTS



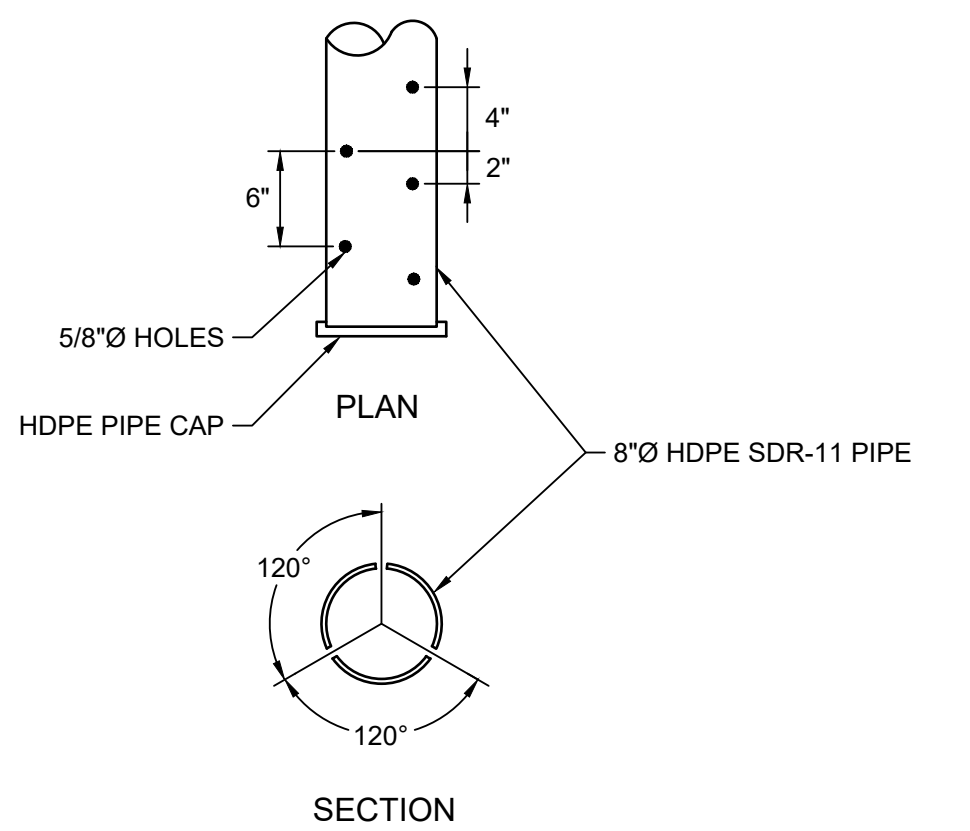
1 DETAIL
5 CLEANOUT SUPPORT AND PIPE
 SCALE: NTS



C SECTION
14 LEACHATE COLLECTION DETECTION SUMP
 SCALE: NTS



2 DETAIL
15 PERFORATION FOR SUMP PIPES
 SCALE: NTS

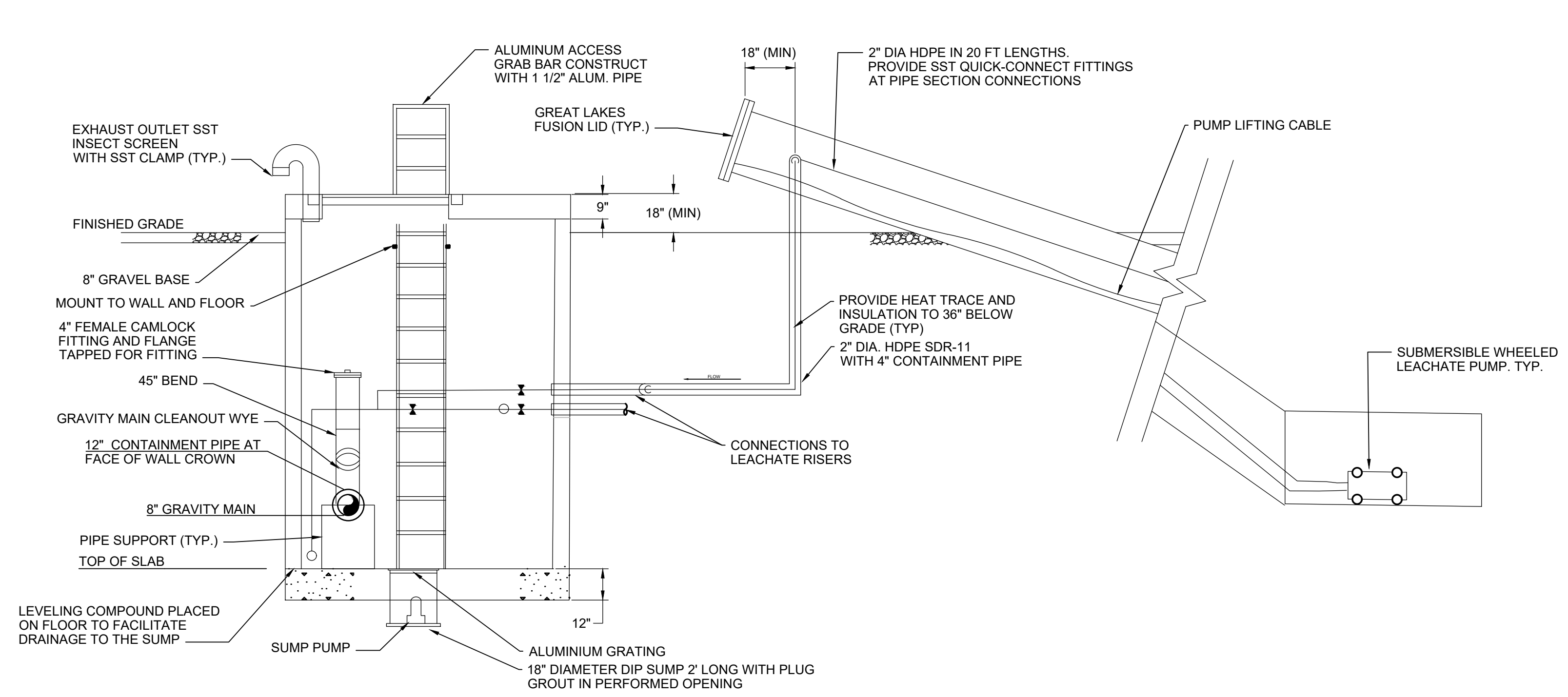


3 DETAIL
15 PERFORATION FOR 6IN AND 8IN DIA PIPES
 SCALE: NTS

NOTES:
 1. SUBCELLS 9.1 AND 9.2, WHICH ARE ALREADY CONSTRUCTED, AND SUBCELL 9.3, WHICH IS CURRENTLY UNDER CONSTRUCTION, HAVE LINER SIDESLOPES OF 4H:1V.

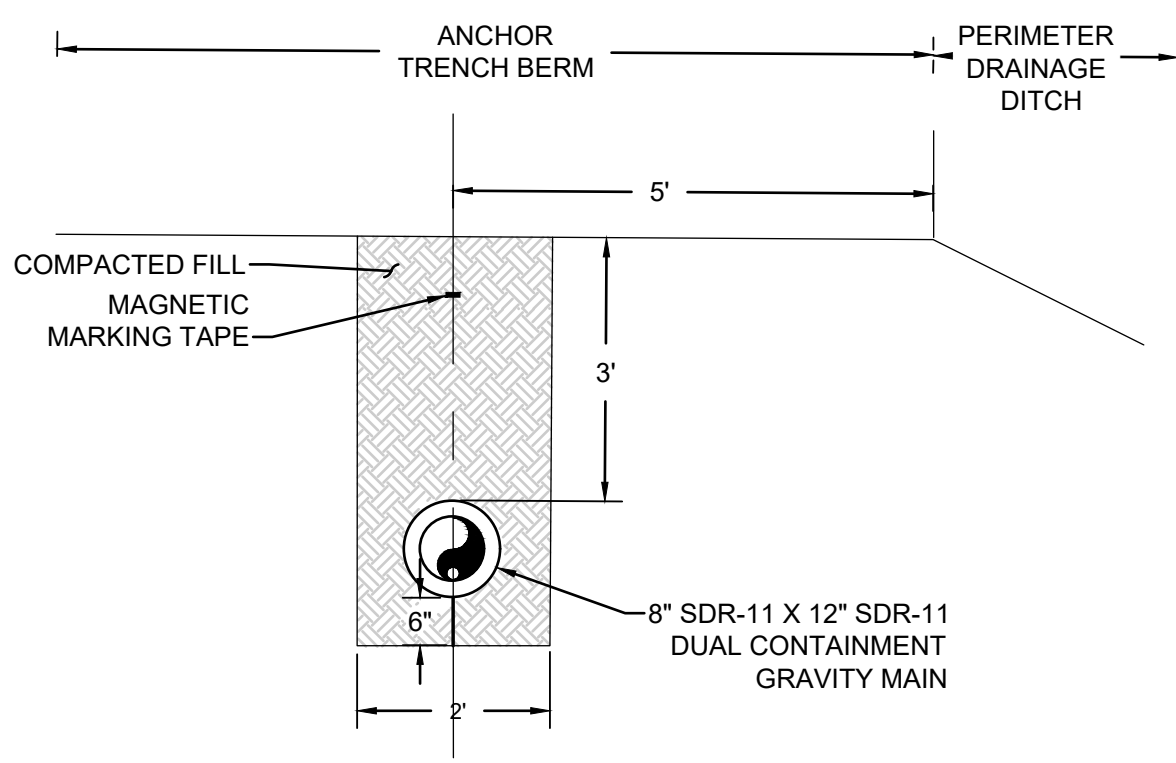
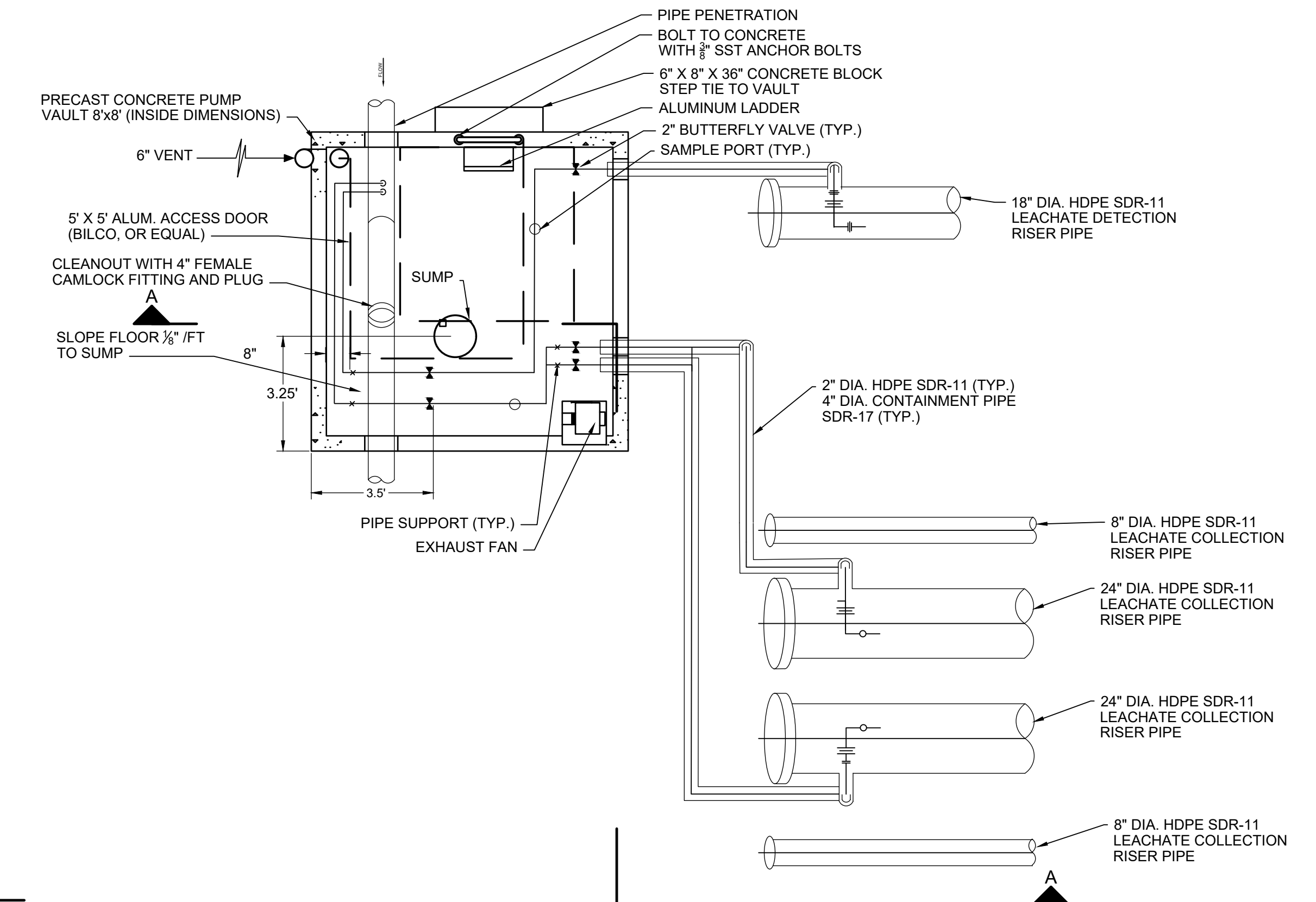
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	FILE NO.: ME1418A.03-C16	DEPARTMENT OF PUBLIC WORKS		
	Geosyntec consultants <small>engineers scientists innovators</small> 10211 WINDCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	REVISIONS:	APPROVED:	DATE:
		DATE:	BY:	DATE:
SIGNATURE: <i>Neena Vemiseti</i> MARCH 6, 2026 DATE:	CHIEF ENGINEER APPROVED: _____ ASSISTANT CHIEF ENGINEER	PROJECT MANAGER APPROVED: _____ CHIEF RIGHT-OF-WAY	SCALE: NOTED DRAWN BY: BW/MJ CHECKED BY: MV DRAWING NO.: 15 OF 30 PROJECT NO.: ME1418A	
PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY			TITLE: LEACHATE SUMP AND RISER SECTIONS	

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SECTION A-A
NOTES 1, 2, 3

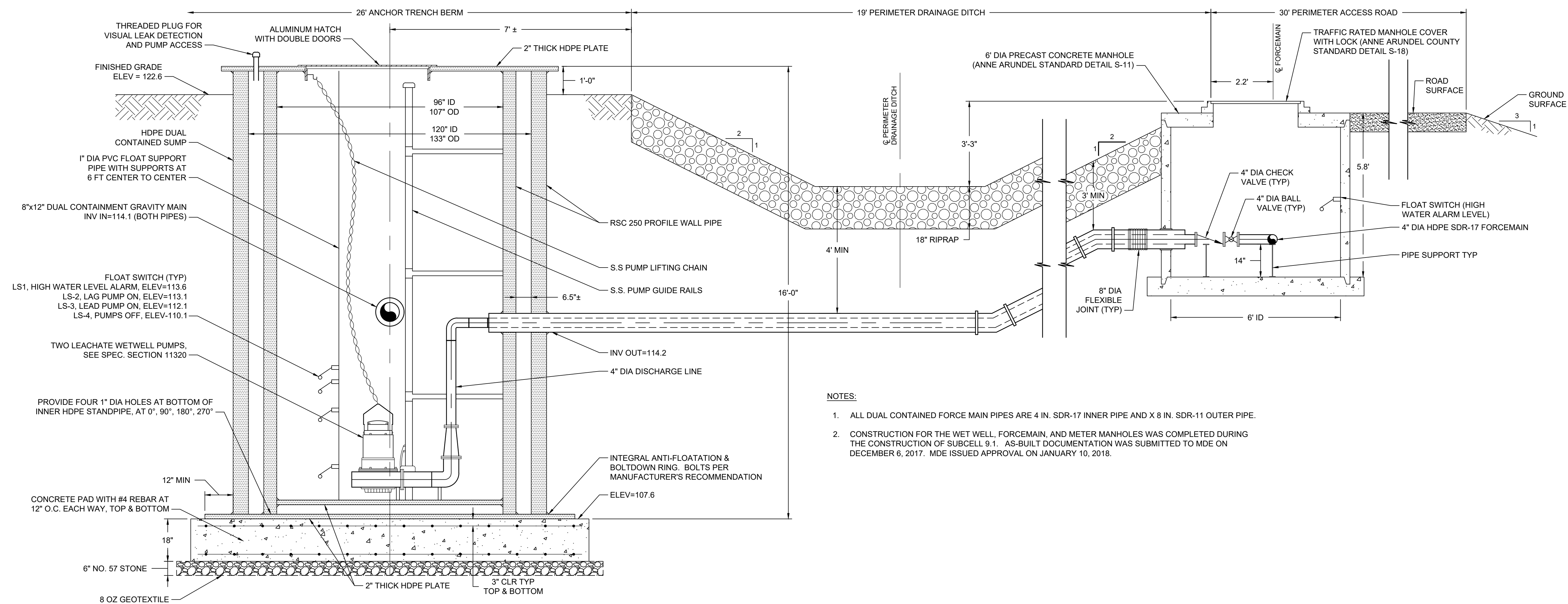
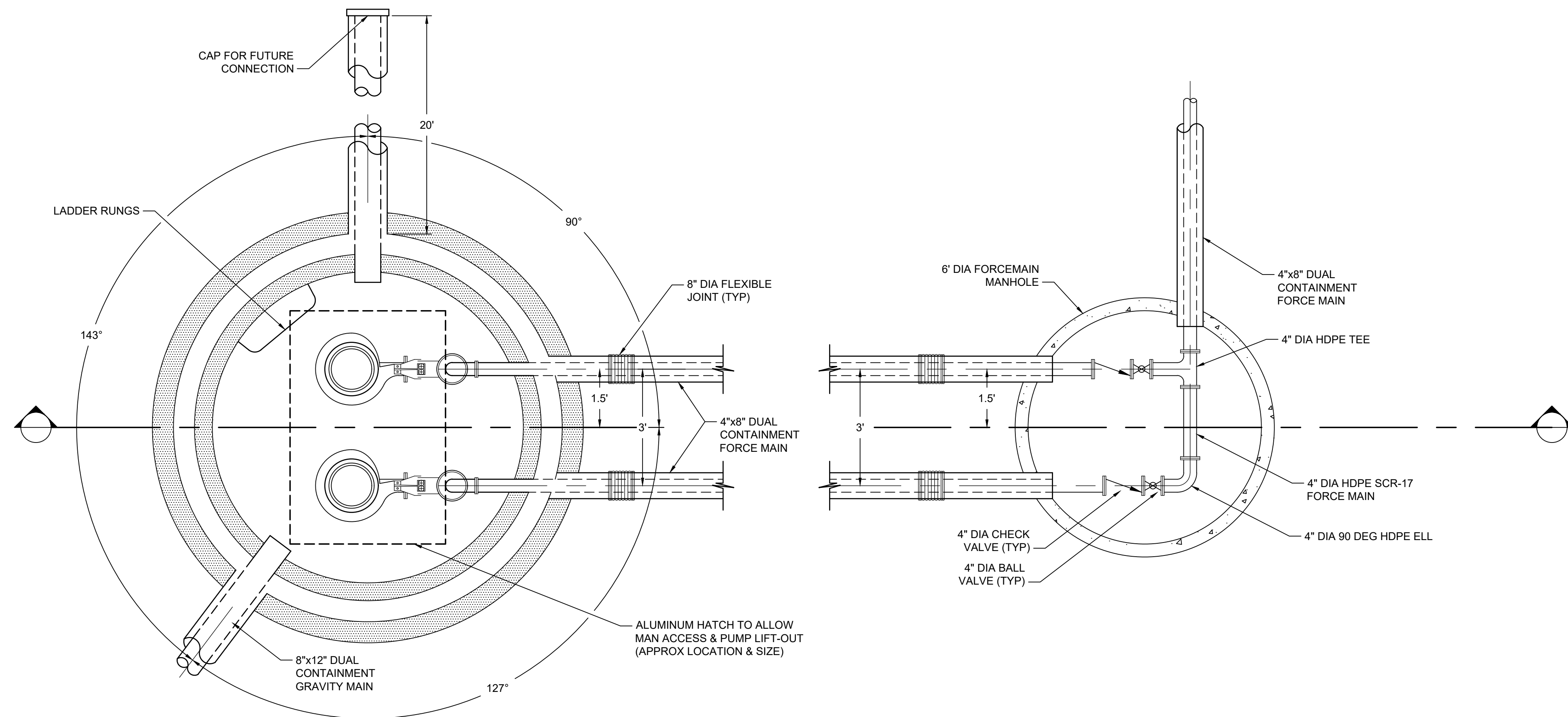
1
5 **DETAIL**
LEACHATE COLLECTION RISER VAULT
SCALE: NTS



2
5 **DETAIL**
LEACHATE COLLECTION GRAVITY MAIN
SCALE: NTS

- NOTES:
1. PROVIDE AND INSTALL SUMP PUMP. PIPE TO GRAVITY MAIN WITH TUBING AS DEFINED IN NOTE 3. PROVIDE QUICK CONNECT COUPLINGS AND VALVE AT TIE-IN TO GRAVITY MAIN.
 2. INSTALL FLOOD DETECTION UNIT WITHIN SUMP SO THAT BOTTOM OF PROBE IS 6" ABOVE SUMP FLOOR AND PROBE LIES ALONG SUMP WALL. MOUNT WITH SST HARDWARE.
 3. FLEXIBLE TUBING (2") TO CONSIST OF ELASTOMETRIC TUBING WITH REINFORCEMENT OF HIGH TENSILE STRENGTH TEXTILE AND WIRE HELIX TUBING SHALL BE RATED FOR 100 PSI SERVICE AND 10" Hg VACUUM. MATERIALS SHALL BE SUITABLE FOR LEACHATE SERVICE MINIMUM BEND RADIUS = 4.0 INCHES. GATES RUBBER CO. SUPET-VAC #307079 OR EQUAL.
 4. PROVIDE AND INSTALL 8" GRAVEL BASE BETWEEN VAULT, RISER PIPE AND CONTROL PANEL AND VAULT CONTROL PANEL, AND ACCESS ROAD. SLOPE FROM RISER PIPE TO ACCESS ROAD FOR DRAINAGE.
 5. EXACT DIMENSIONS AND ELEVATIONS OF LEACHATE COLLECTION RISER VAULTS WILL VARY BETWEEN SUBCELLS, DEPENDING ON GROUND AND SUBCELL ELEVATIONS.

	DATE: MARCH 2026 FILE NO.: ME1418A.03-C17	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS	
		REVISIONS: DATE BY CHIEF ENGINEER APPROVED: DATE ASSISTANT CHIEF ENGINEER	APPROVED: DATE PROJECT MANAGER APPROVED: DATE CHIEF RIGHT-OF-WAY
PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY		TITLE: LEACHATE COLLECTION VAULT AND GRAVITY MAIN DETAILS	

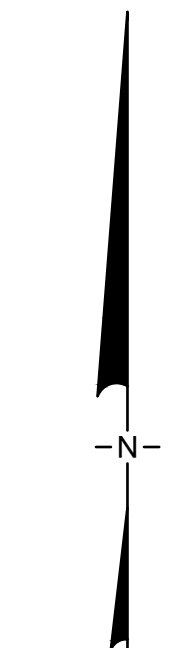
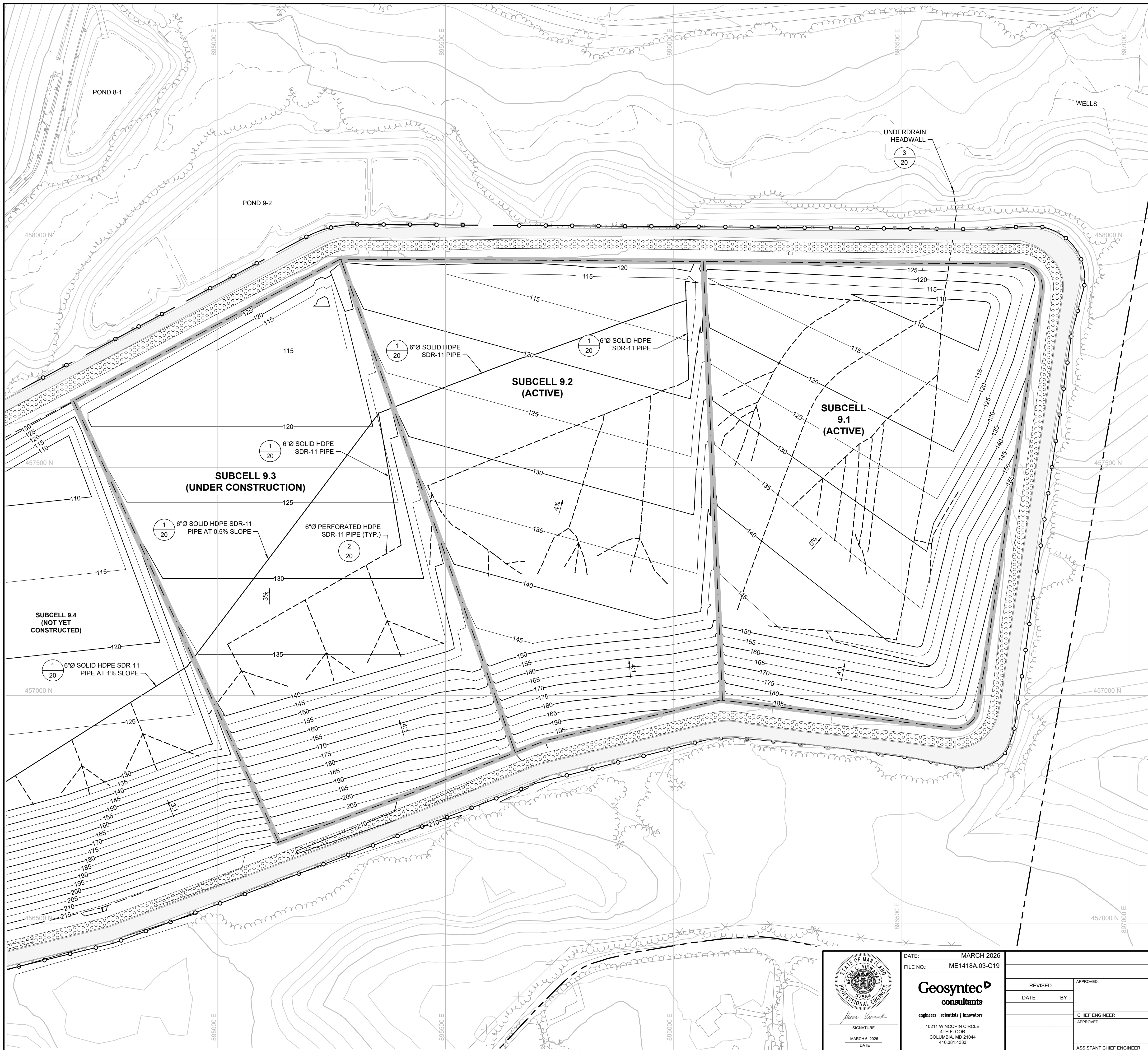


- NOTES:**
1. ALL DUAL CONTAINED FORCE MAIN PIPES ARE 4 IN. SDR-17 INNER PIPE AND X 8 IN. SDR-11 OUTER PIPE.
 2. CONSTRUCTION FOR THE WET WELL, FORCEMAIN, AND METER MANHOLES WAS COMPLETED DURING THE CONSTRUCTION OF SUBCELL 9.1. AS-BUILT DOCUMENTATION WAS SUBMITTED TO MDE ON DECEMBER 6, 2017. MDE ISSUED APPROVAL ON JANUARY 10, 2018.

1 DETAIL
6 LEACHATE FORCEMAIN / WET WELL
 SCALE: 1" = 1'

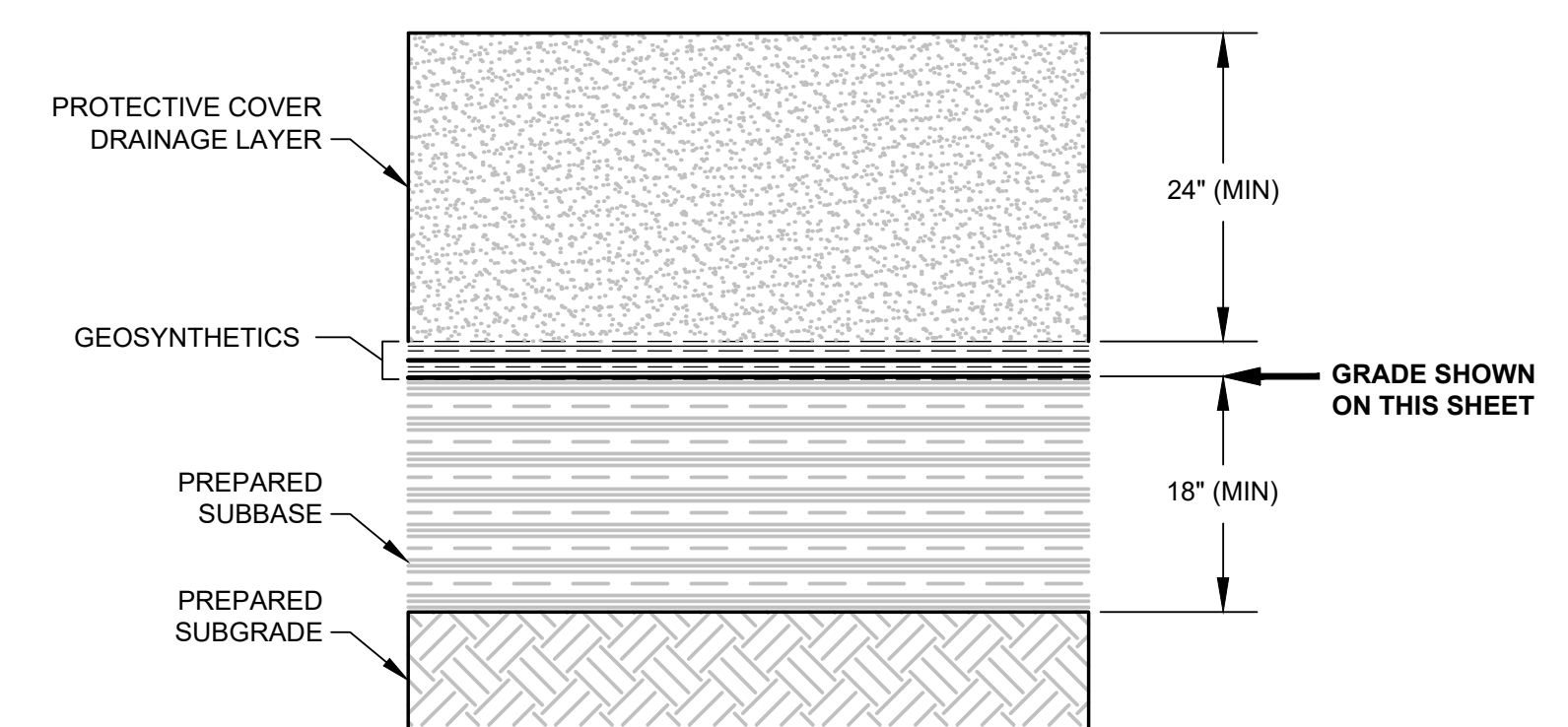
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Geosyntec consultants engineers scientists innovators 10211 WNCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333		REVISIONS: DATE BY	APPROVED: DATE CHIEF ENGINEER APPROVED: DATE ASSISTANT CHIEF ENGINEER	APPROVED: DATE PROJECT MANAGER APPROVED: DATE CHIEF RIGHT-OF-WAY	SCALE: NOTED DRAWN BY: BW/MJ CHECKED BY: MV DRAWING NO.: 17 OF 30 PROJECT NO.: ME1418A	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY TITLE: EXISTING WET WELL, FORCEMAIN, AND METER MANHOLES

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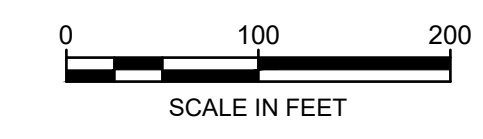


LEGEND

	PROPERTY BOUNDARY
	EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
	PROPOSED SUBBASE CONTOUR (FEET-MSL)
	STRUCTURE / BUILDING
	FENCE
	PAVED DRIVE
	GRAVEL DRIVE
	TREELINE
	STREAM / WATERLINE
	CELL 9 FOOTPRINT
	SUBCELL BOUNDARY
	LITTER FENCE
	GUARDRAIL
	STORMWATER CULVERT
	RIPRAP
	CONCRETE MOMENT SLAB
	LIMIT OF SUBCELL LINER
	UNDERDRAIN PIPE (SOLID)
	UNDERDRAIN PIPE (PERFORATED)

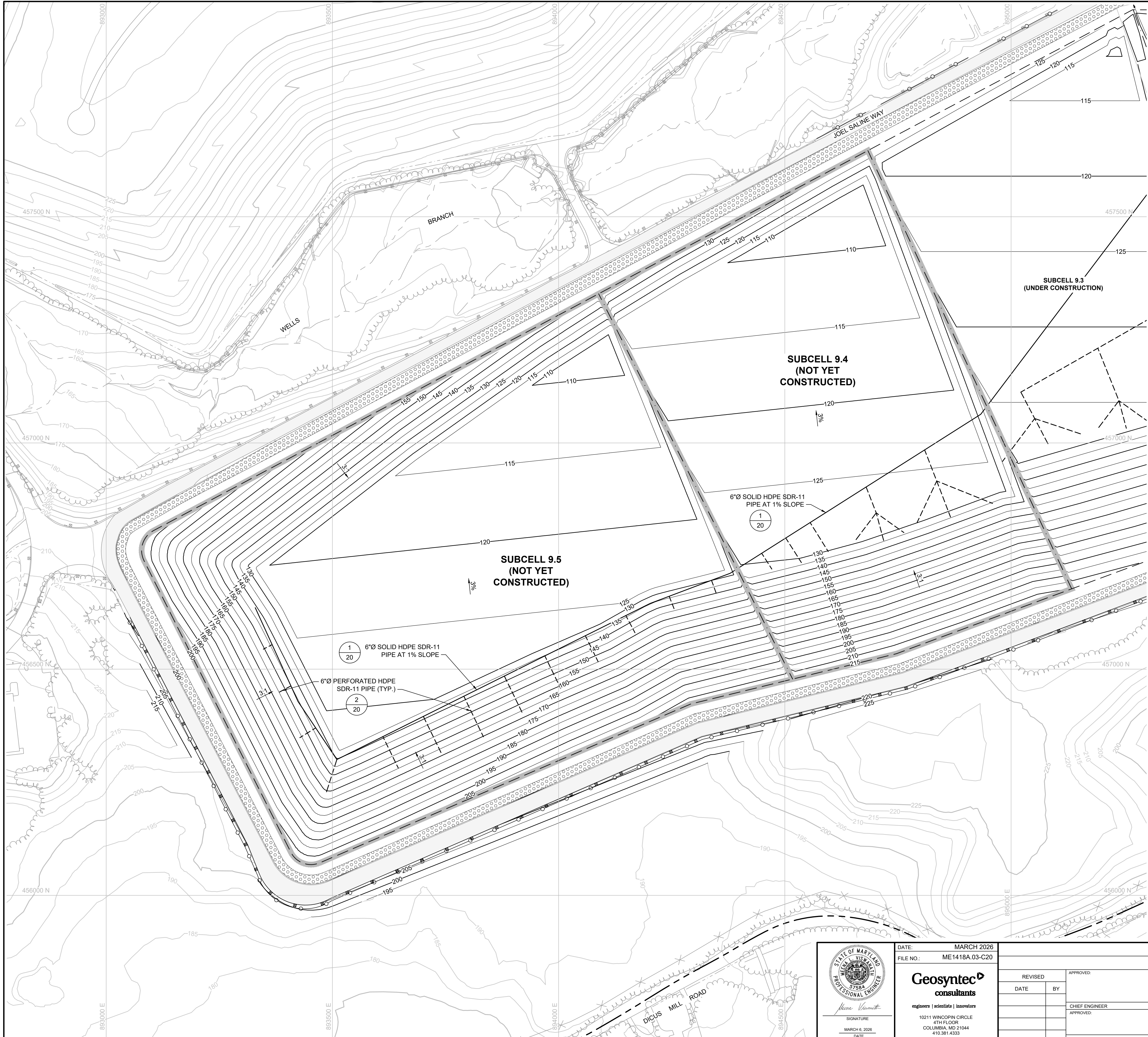


- NOTES:**
- SEE SHEET 2 FOR GENERAL NOTES.
 - INFRASTRUCTURE AND LINER GRADES SHOWN FOR SUBCELLS 9.1 AND 9.2 ARE AS-BUILT GRADES; INFRASTRUCTURE AND LINER GRADES SHOWN FOR SUBCELLS 9.3 THROUGH 9.5 ARE NOT YET CONSTRUCTED.
 - NORTHERN LIMIT OF PERFORATED UNDERDRAIN IS INTENDED TO INTERCEPT THE LIMITS OF THE UPPERMOST SAND LAYER FOLLOWING SUBGRADE EXCAVATION. FINAL LOCATION MAY BE ADJUSTED DURING CONSTRUCTION TO INTERCEPT PERCHED WATER WHERE OBSERVED.



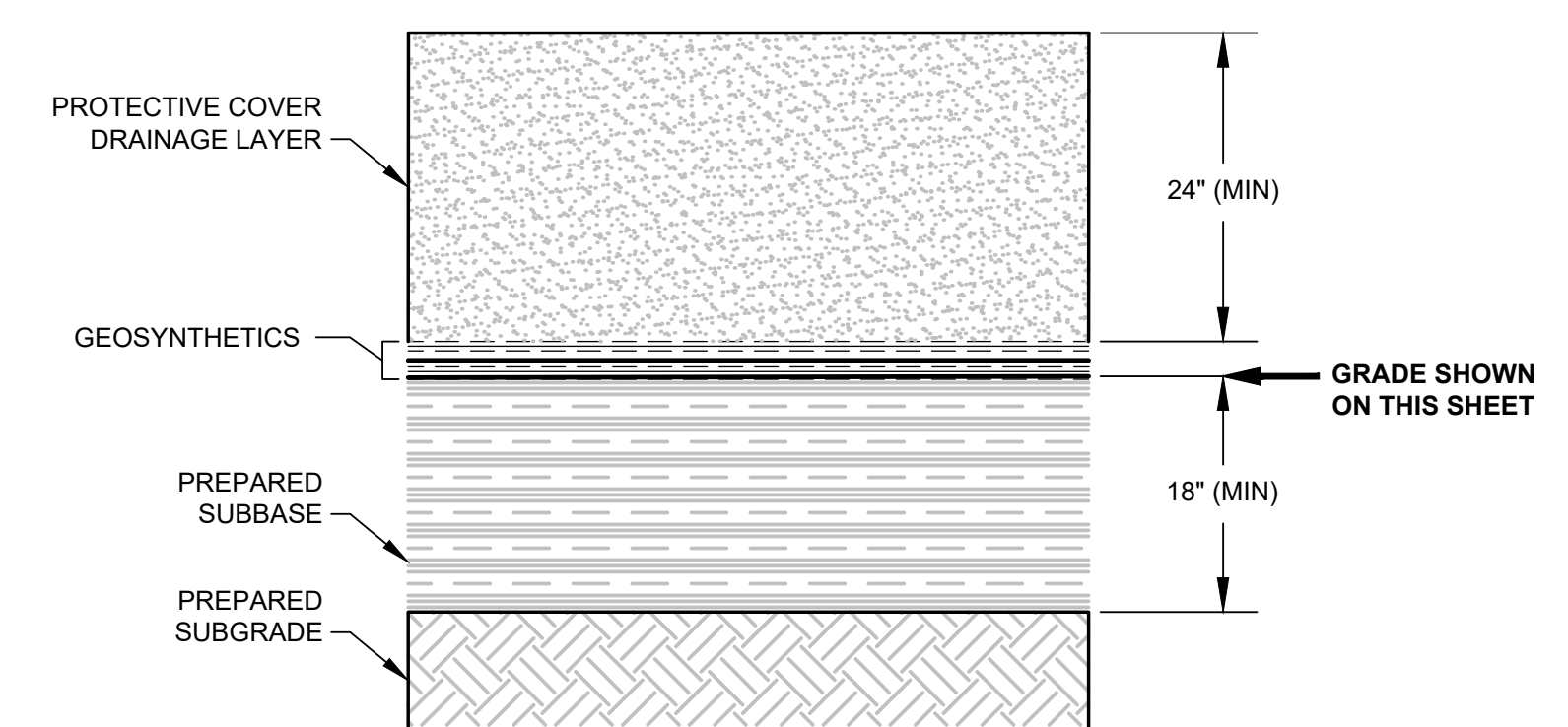
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		DATE: MARCH 2026	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS		
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Geosyntec consultants engineers scientists innovators 10211 WINDCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333		REVISIONS: DATE BY CHIEF ENGINEER APPROVED: DATE ASSISTANT CHIEF ENGINEER	APPROVED: DATE PROJECT MANAGER APPROVED: DATE CHIEF RIGHT-OF-WAY	SCALE: NOTED DRAWN BY: BW/MJ CHECKED BY: MV DRAWING NO.: 18 OF 30 PROJECT NO.: ME1418A	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY TITLE: UNDERDRAIN SYSTEM-SUBCELLS 9.1, 9.2, AND 9.3



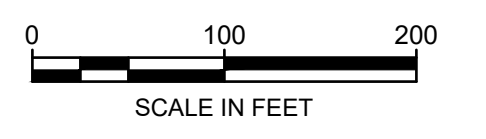
LEGEND

- PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
- PROPOSED SUBBASE CONTOUR (FEET-MSL)
- STRUCTURE / BUILDING
- FENCE
- PAVED DRIVE
- GRAVEL DRIVE
- TREELINE
- STREAM / WATERLINE
- CELL 9 FOOTPRINT
- SUBCELL BOUNDARY
- LITTER FENCE
- GUARDRAIL
- STORMWATER CULVERT
- RIPRAP
- EXISTING CONCRETE MOMENT SLAB
- LIMIT OF SUBCELL LINER
- UNDERDRAIN PIPE (SOLID)
- UNDERDRAIN PIPE (PERFORATED)



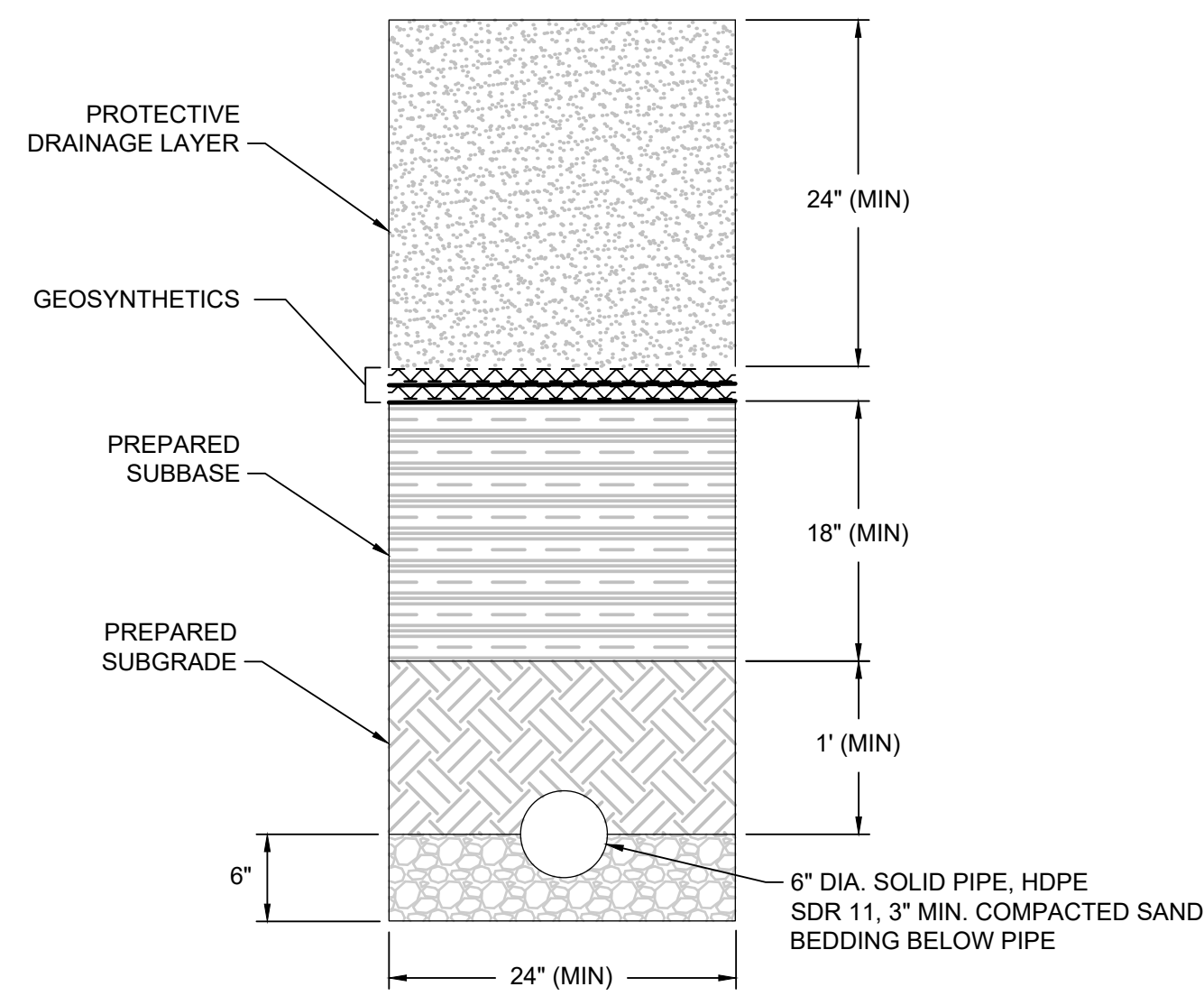
1 **DETAIL**
1 **LINER SYSTEM, TYP.**
 SCALE: NTS

- NOTES:
1. SEE SHEET 2 FOR GENERAL NOTES.
 2. INFRASTRUCTURE AND LINER GRADES SHOWN FOR SUBCELLS 9.1 AND 9.2 ARE AS-BUILT GRADES; INFRASTRUCTURE AND LINER GRADES SHOWN FOR SUBCELLS 9.3 THROUGH 9.5 ARE NOT YET CONSTRUCTED.
 3. NORTHERN LIMIT OF PERFORATED UNDERDRAIN IS INTENDED TO INTERCEPT THE LIMITS OF THE UPPERMOST SAND LAYER FOLLOWING SUBGRADE EXCAVATION. FINAL LOCATION MAY BE ADJUSTED DURING CONSTRUCTION TO INTERCEPT PERCHED WATER WHERE OBSERVED.

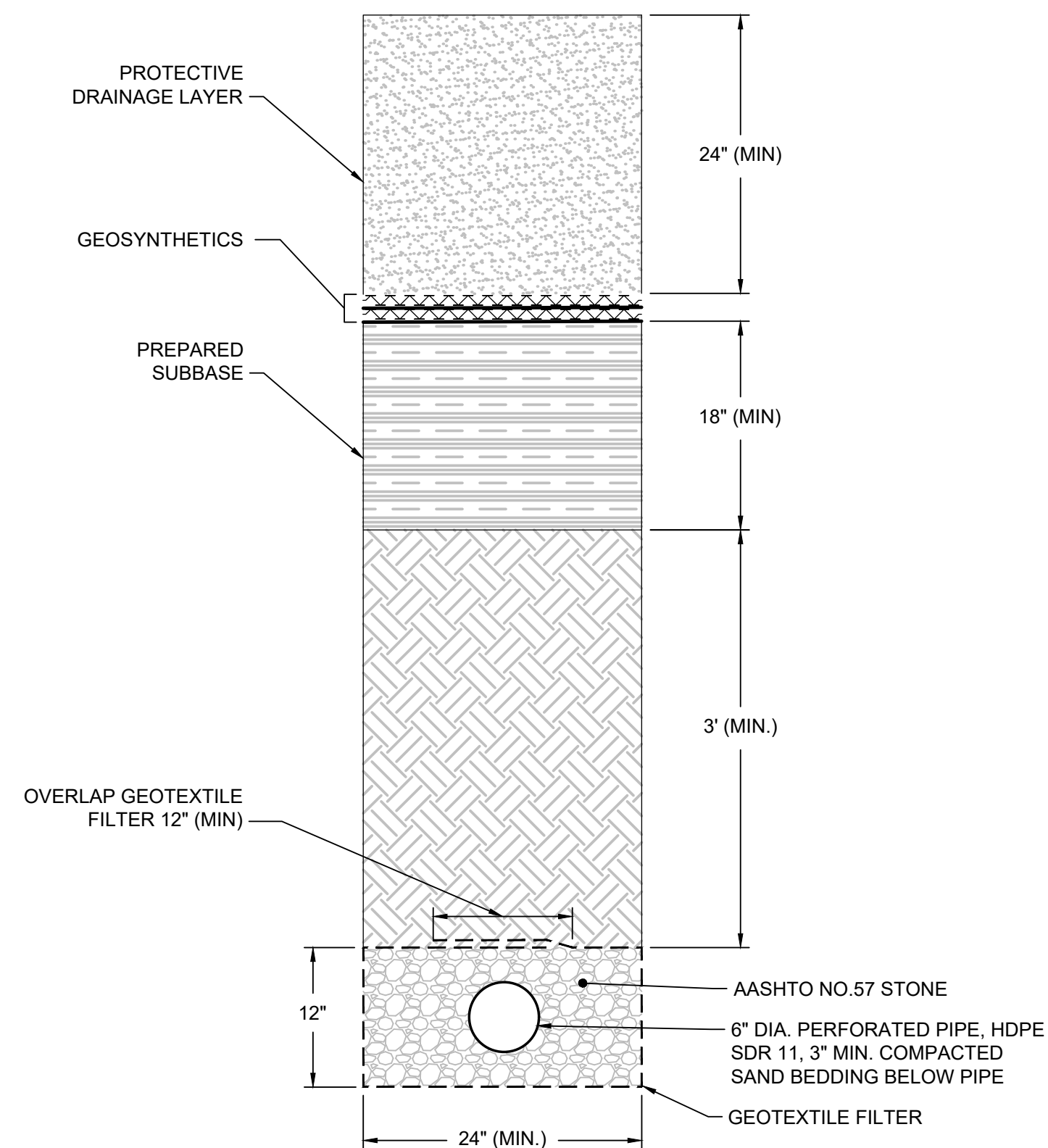


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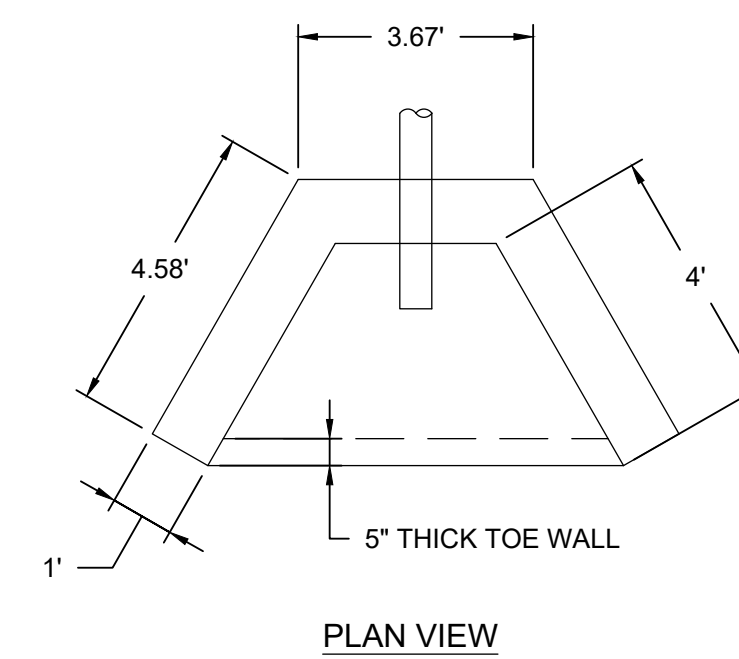
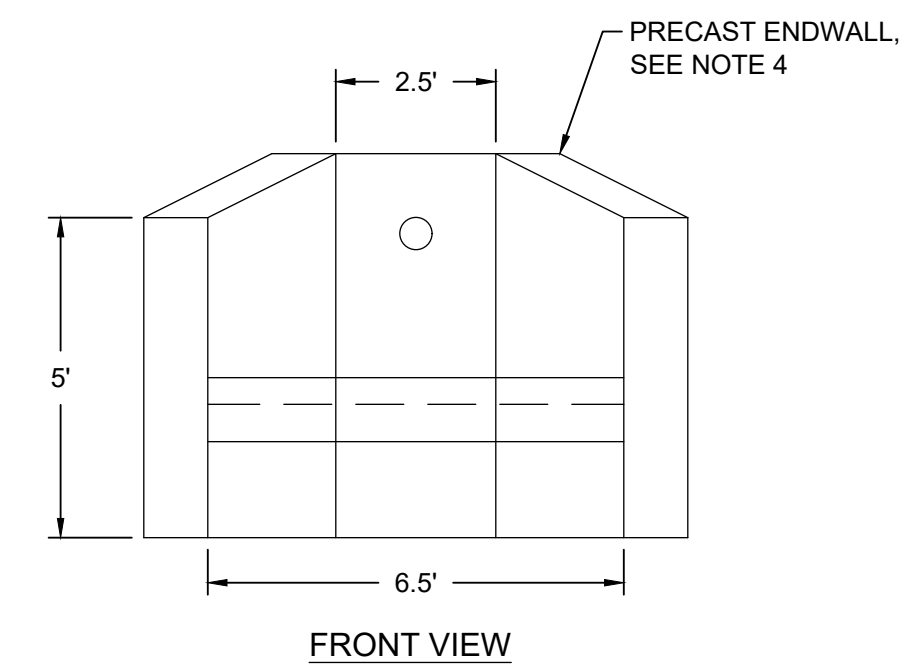
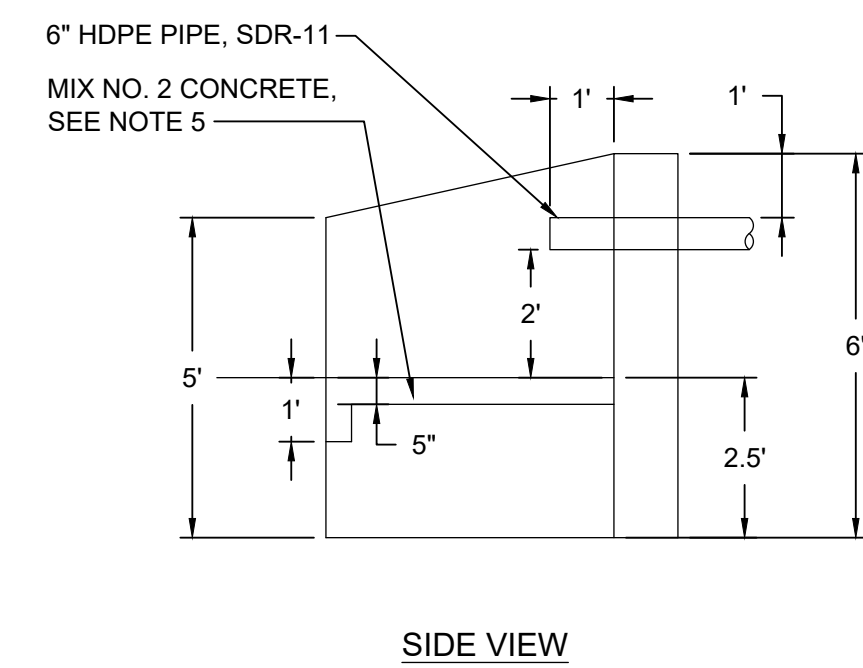
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	FILE NO.: ME1418A.03-C20	DEPARTMENT OF PUBLIC WORKS																			
		PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY																			
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REVISED	DATE	BY	APPROVED:	DATE	APPROVED:	DATE															
CHIEF ENGINEER	PROJECT MANAGER																				
SIGNATURE: <i>Neena Vignath</i> DATE: MARCH 8, 2026	10211 WNWCPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY																		



1
18 DETAIL
UNDERDRAIN CROSS SECTION - SOLID PIPE
SCALE: NTS



2
18 DETAIL
UNDERDRAIN CROSS SECTION - PERFORATED PIPE
SCALE: NTS

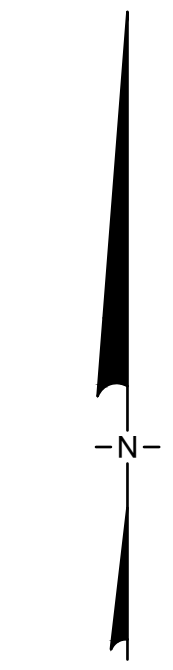
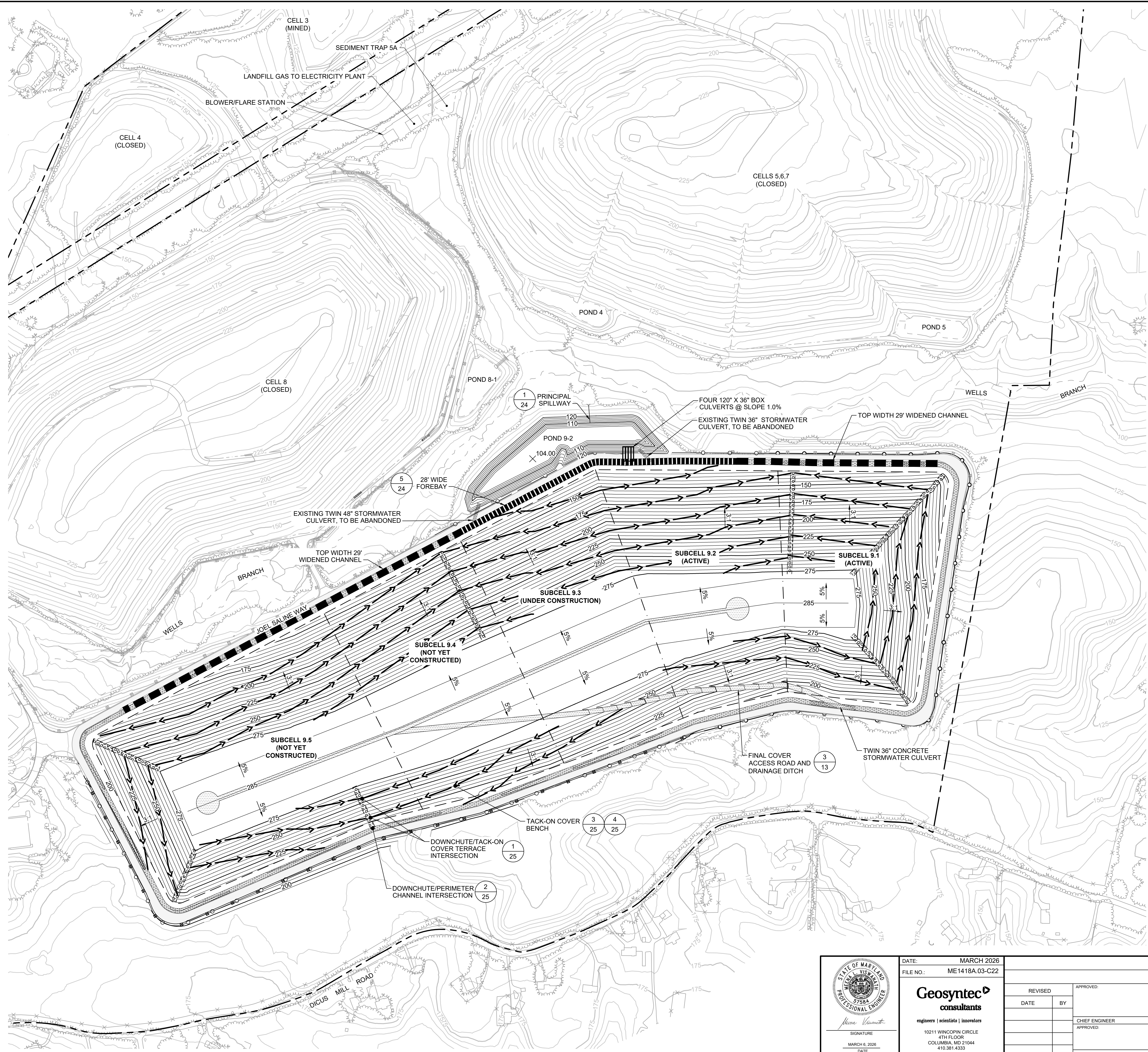


- NOTES:
1. CONCRETE SHALL HAVE A DESIGN STRENGTH OF 4,000 PSI @ 28 DAYS.
 2. CONSTRUCTION AS PER LATEST REVISION OF ASTM C-890.
 3. REINFORCEMENT BARS AS PER ASTM A-615, GRADE 60. HORIZONTAL: #4 BARS @ 12\"/>

3
18 DETAIL
UNDERDRAIN ENDWALL
SCALE: NTS

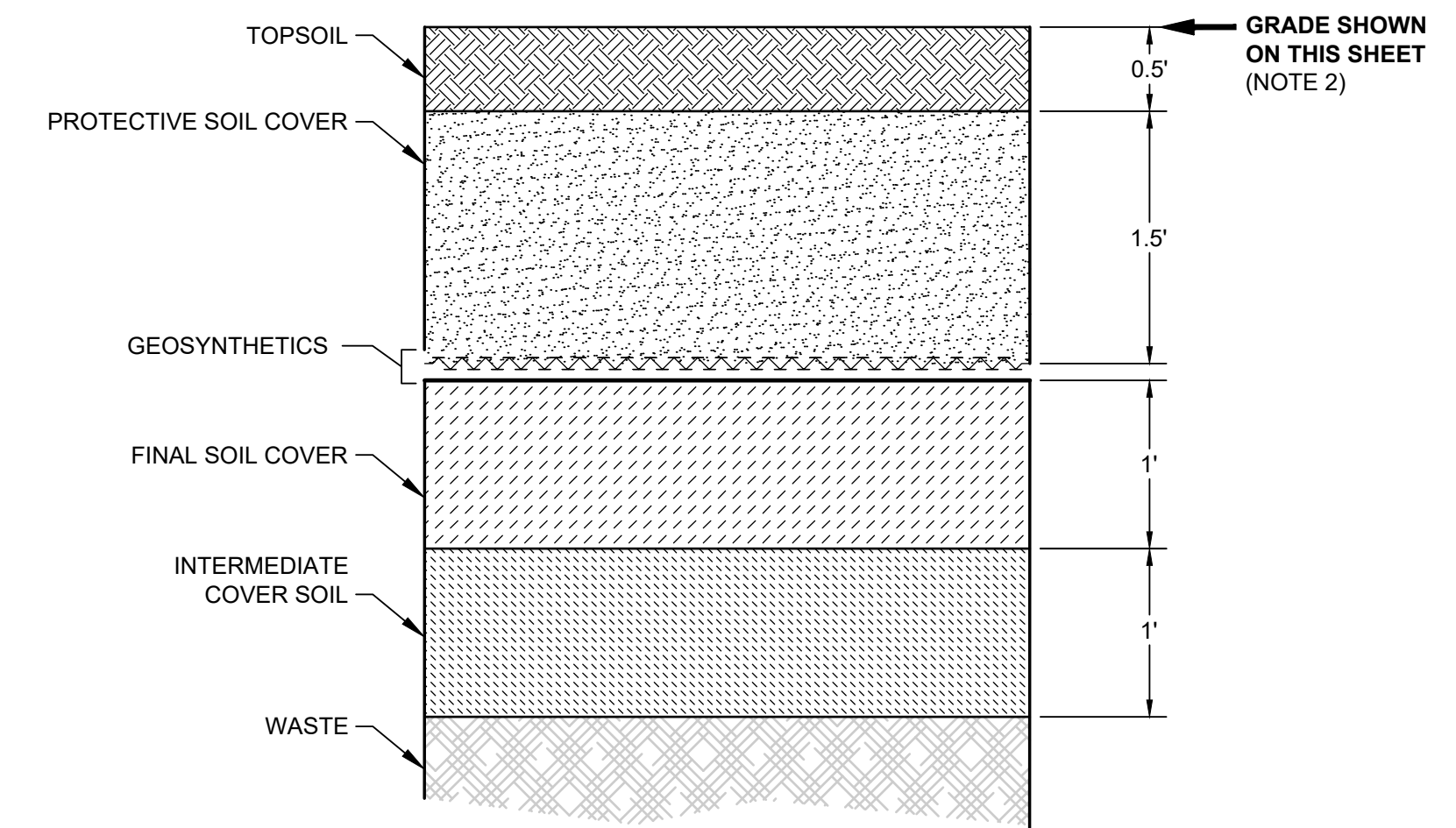
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	DATE: MARCH 2026 FILE NO.: ME1418A.03-C21	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS		PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY
		REVISIONS: DATE BY CHIEF ENGINEER APPROVED: DATE ASSISTANT CHIEF ENGINEER	APPROVED: DATE PROJECT MANAGER APPROVED: DATE CHIEF RIGHT-OF-WAY	SCALE: NOTED DRAWN BY: BW/MJ CHECKED BY: MV DRAWING NO.: 20 OF 30 PROJECT NO.: ME1418A



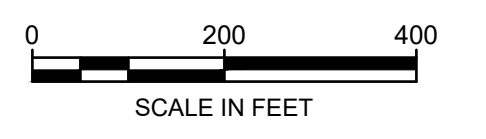
LEGEND

	PROPERTY BOUNDARY
	EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
	PROPOSED FINAL GRADE CONTOUR (FEET-MSL)
	STRUCTURE / BUILDING
	FENCE
	PAVED DRIVE
	GRAVEL DRIVE
	TREELINE
	STREAM / WATERLINE
	CELL 9 FOOTPRINT
	SUBCELL BOUNDARY
	LITTER FENCE
	GUARDRAIL
	RIPRAP
	DOWNCHUTE
	TACK-ON BENCH
	ACCESS ROAD
	PERIMETER ROAD
	TOP WIDTH 29' WIDENED CHANNEL
	28' FOREBAY



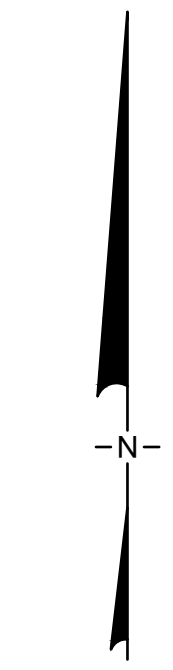
1 DETAIL
COVER SYSTEM (TYP.)
 SCALE: NTS

- NOTES:
- SEE SHEET 2 FOR GENERAL NOTES.
 - THE FINAL COVER ELEVATIONS PRESENTED ON THIS SHEET APPLY WHETHER THE FINAL COVER SYSTEM OR THE ALTERNATIVE FINAL COVER SYSTEM IS SELECTED (SEE SHEET 13). THE FINAL COVER SYSTEM SHOWN HERE IS FOR ILLUSTRATION PURPOSES ONLY.
 - THE STORMWATER FEATURES PRESENTED ON THIS SHEET ARE DESIGNED TO ACCOMMODATE RUN-OFF FROM EITHER THE FINAL COVER SYSTEM OR THE ALTERNATIVE FINAL COVER SYSTEM.



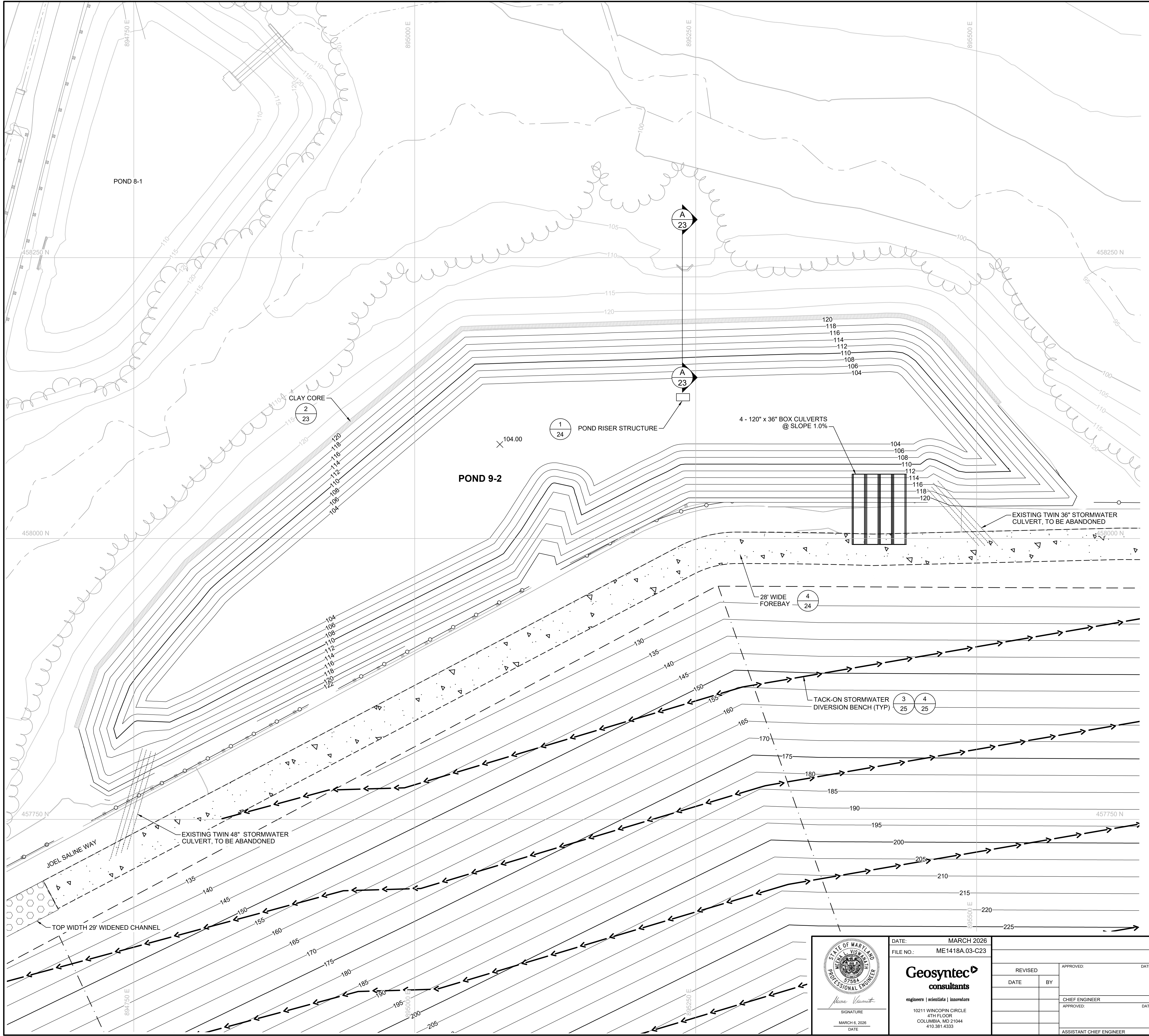
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	DATE: MARCH 2026	ANNE ARUNDEL COUNTY	
	FILE NO.: ME1418A.03-C22	DEPARTMENT OF PUBLIC WORKS	
Geosyntec consultants engineers scientists innovators 10211 WINDCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	REVISIONS:	APPROVED:	PROJECT:
	DATE: BY:	DATE: DATE:	SCALE: NOTED DRAWN BY: BW/MJ CHECKED BY: MV DRAWING NO.: 21 OF 30 PROJECT NO.: ME1418A
SIGNATURE: <i>Neeraj Vaidya</i> DATE: MARCH 6, 2026	CHIEF ENGINEER APPROVED:	PROJECT MANAGER APPROVED:	TITLE: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY STORMWATER MANAGEMENT PLAN
	ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY	

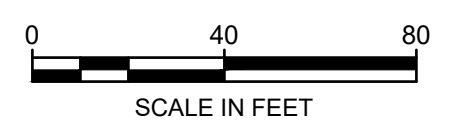


LEGEND

	PROPERTY BOUNDARY
	EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
	PROPOSED FINAL GRADE CONTOUR (FEET-MSL)
	PAVED DRIVE
	TREELINE
	STREAM / WATERLINE
	CELL 9 FOOTPRINT
	SUBCELL BOUNDARY
	LITTER FENCE
	GUARDRAIL
	STORMWATER CULVERT
	RIPRAP
	TACK-ON BENCH
	ACCESS ROAD
	TOP WIDTH 29' WIDENED CHANNEL
	28' FOREBAY

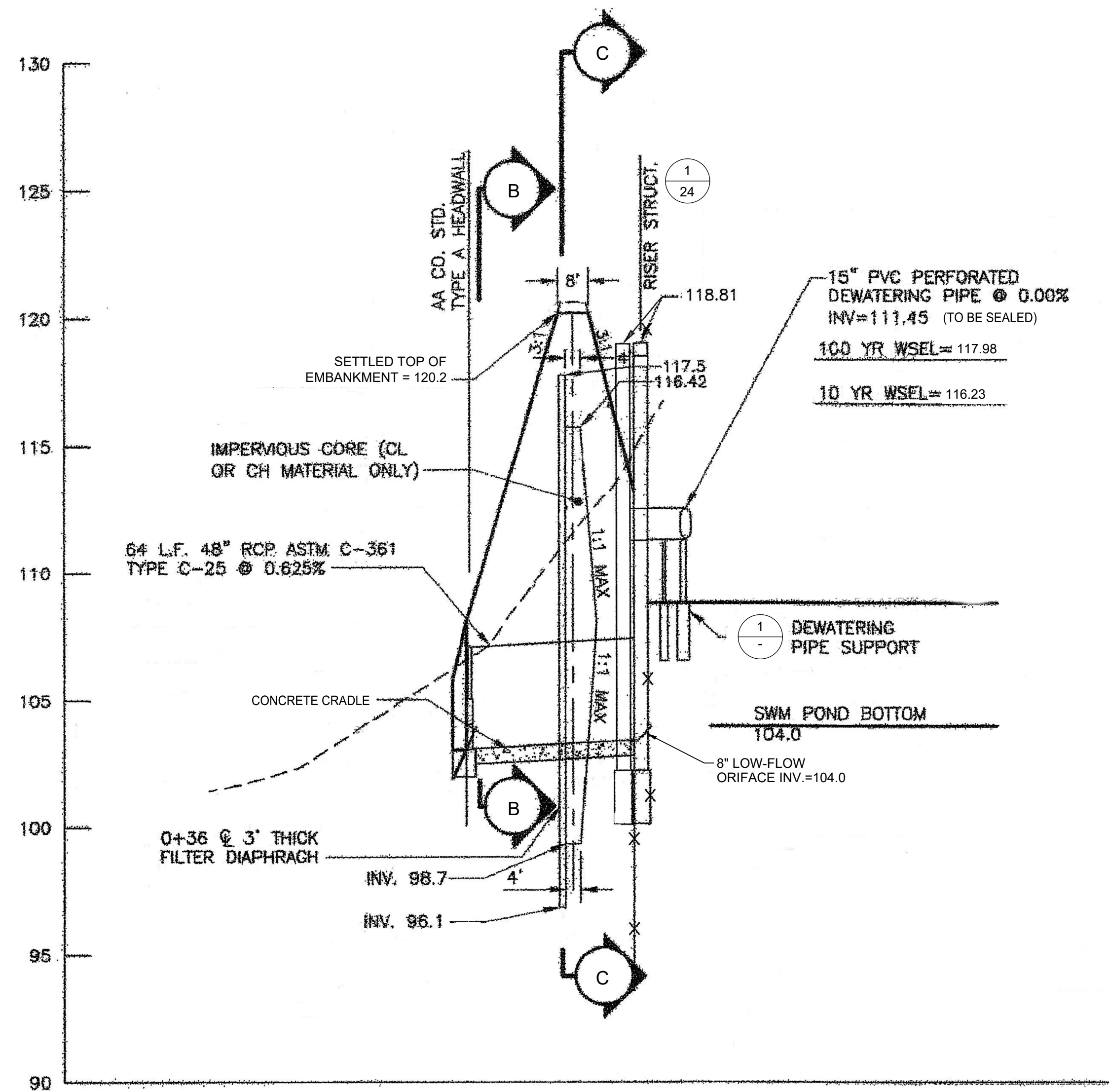


NOTES:
1. SEE SHEET 2 FOR GENERAL NOTES.

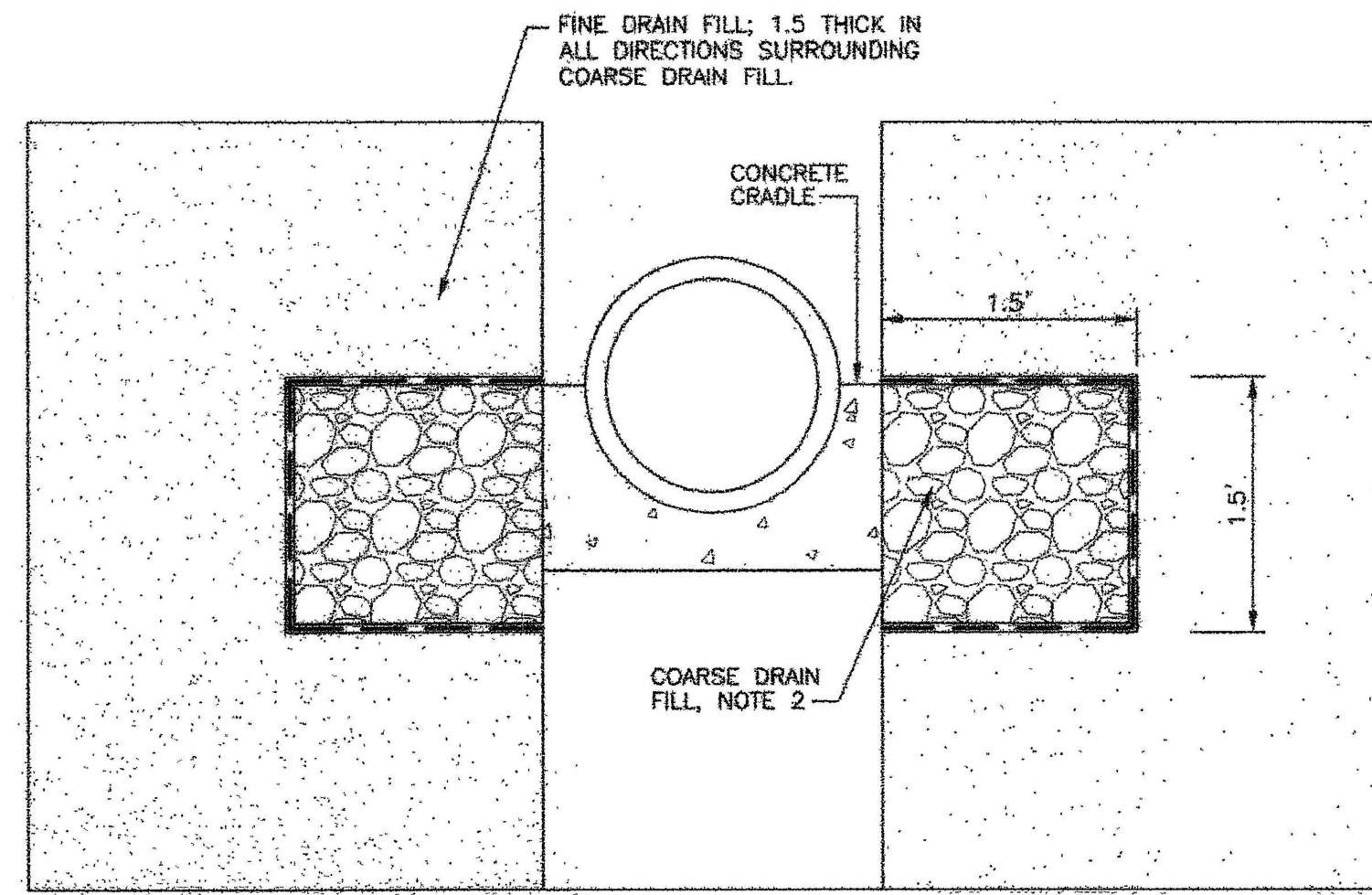


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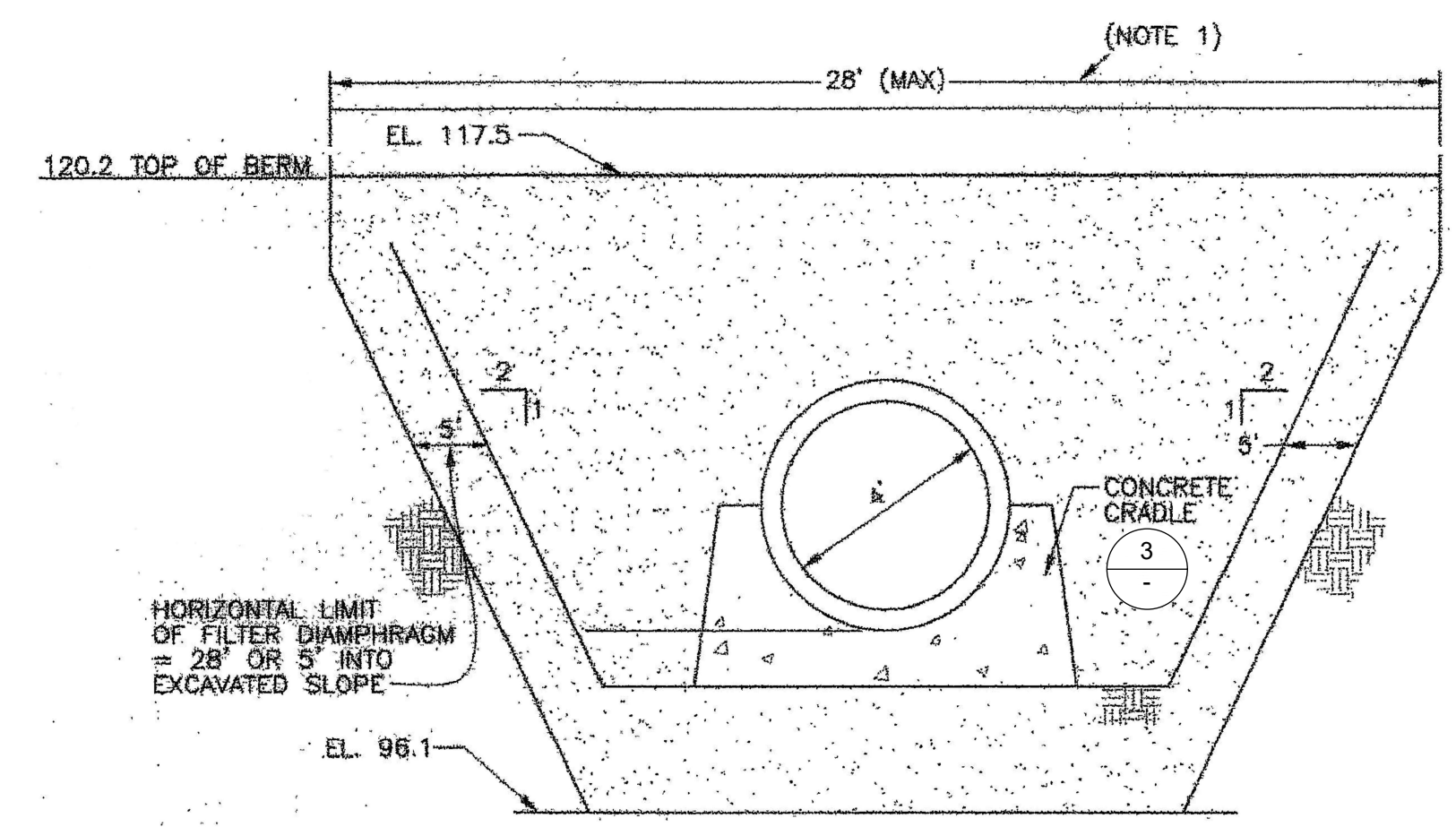
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		FILE NO.: ME1418A.03-C23				
Geosyntec consultants engineers scientists innovators 10211 WNCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333		REVISIONS: DATE BY	APPROVED: DATE CHIEF ENGINEER APPROVED: DATE ASSISTANT CHIEF ENGINEER	APPROVED: DATE PROJECT MANAGER APPROVED: DATE CHIEF RIGHT-OF-WAY	SCALE: NOTED DRAWN BY: BW/MJ CHECKED BY: MV DRAWING NO.: 22 OF 30 PROJECT NO.: ME1418A	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY TITLE: POND 9-2 PLAN - STORMWATER



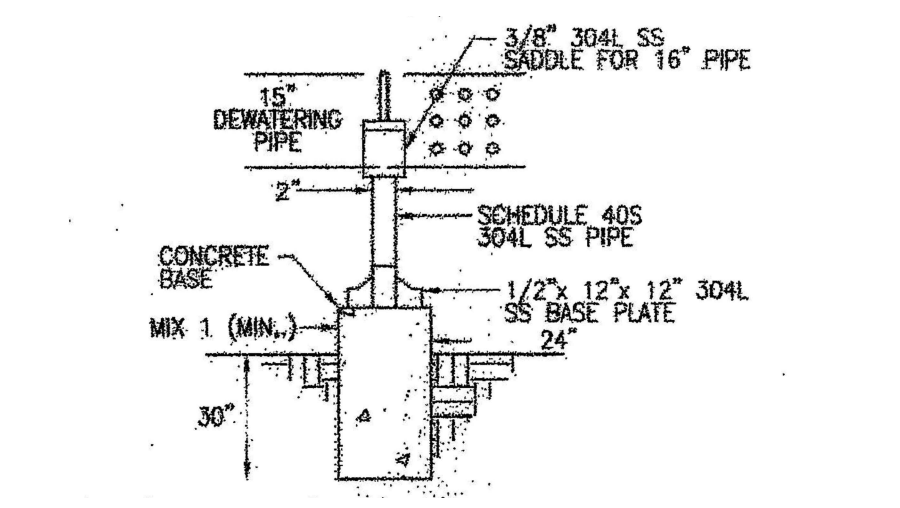
A
22 SECTION
THRU PRINCIPAL SPILLWAY
SCALE: NTS



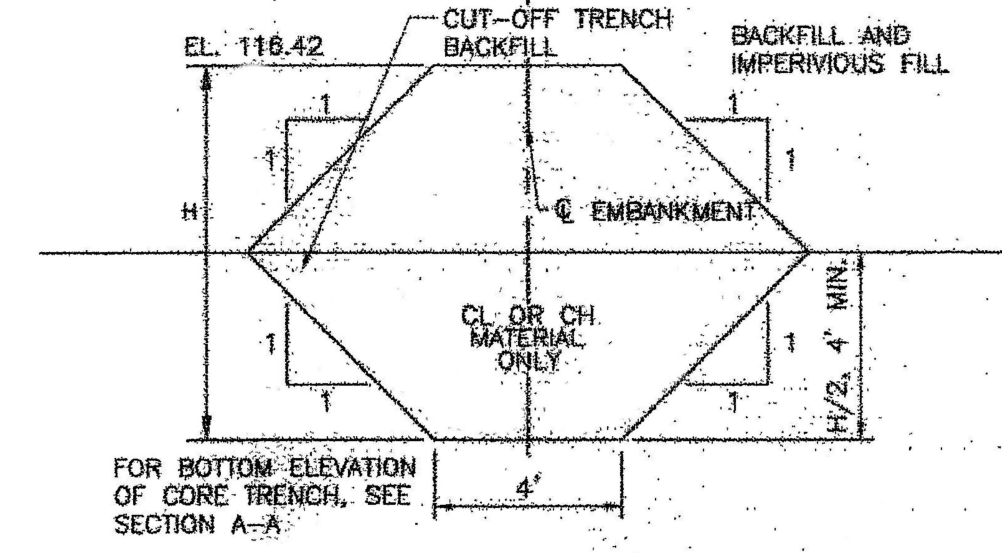
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SECTION
FILTER DRAIN
SCALE: NTS



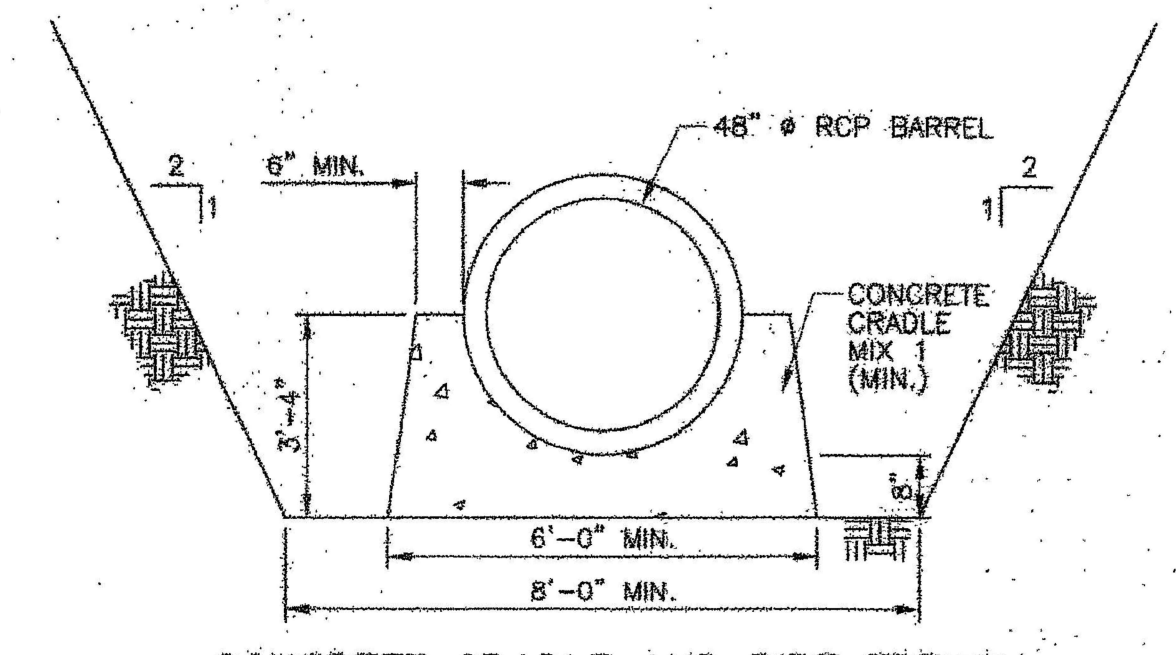
C
SECTION
FILTER DIAPHRAGM
SCALE: NTS



1
DETAIL
DEWATERING PIPE SUPPORT
SCALE: NTS



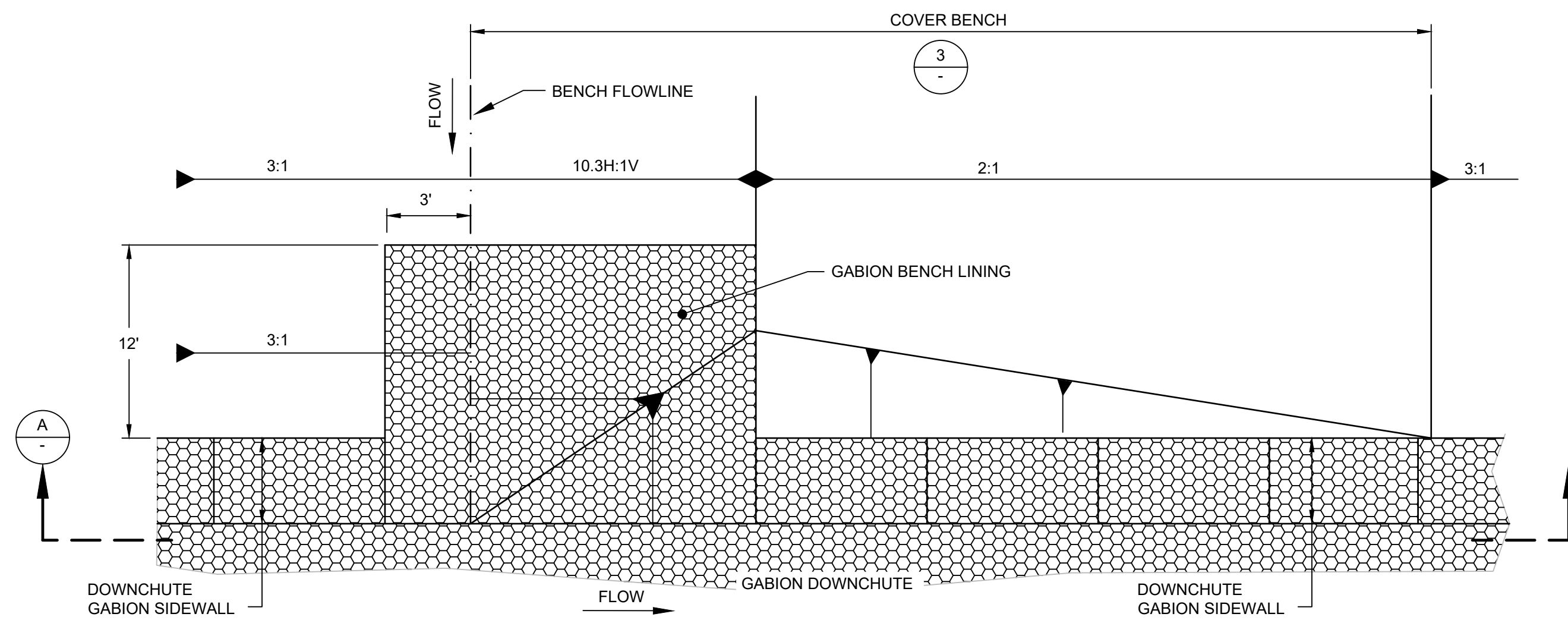
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22 DETAIL
CLAY CORE (TYP)
SCALE: NTS



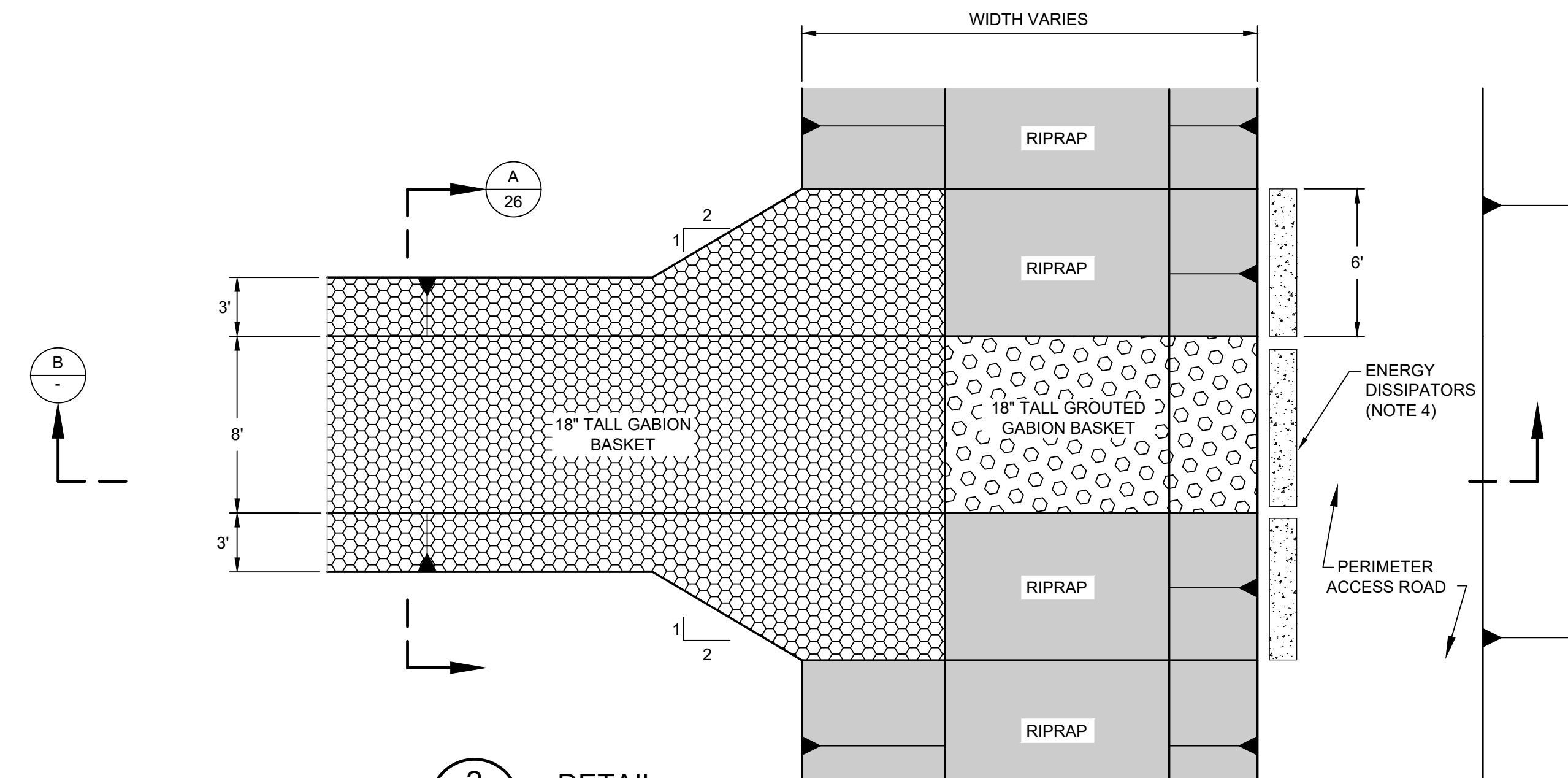
3
DETAIL
CONCRETE CRADLE AND PIPE
TRENCH FOR 48\"/>

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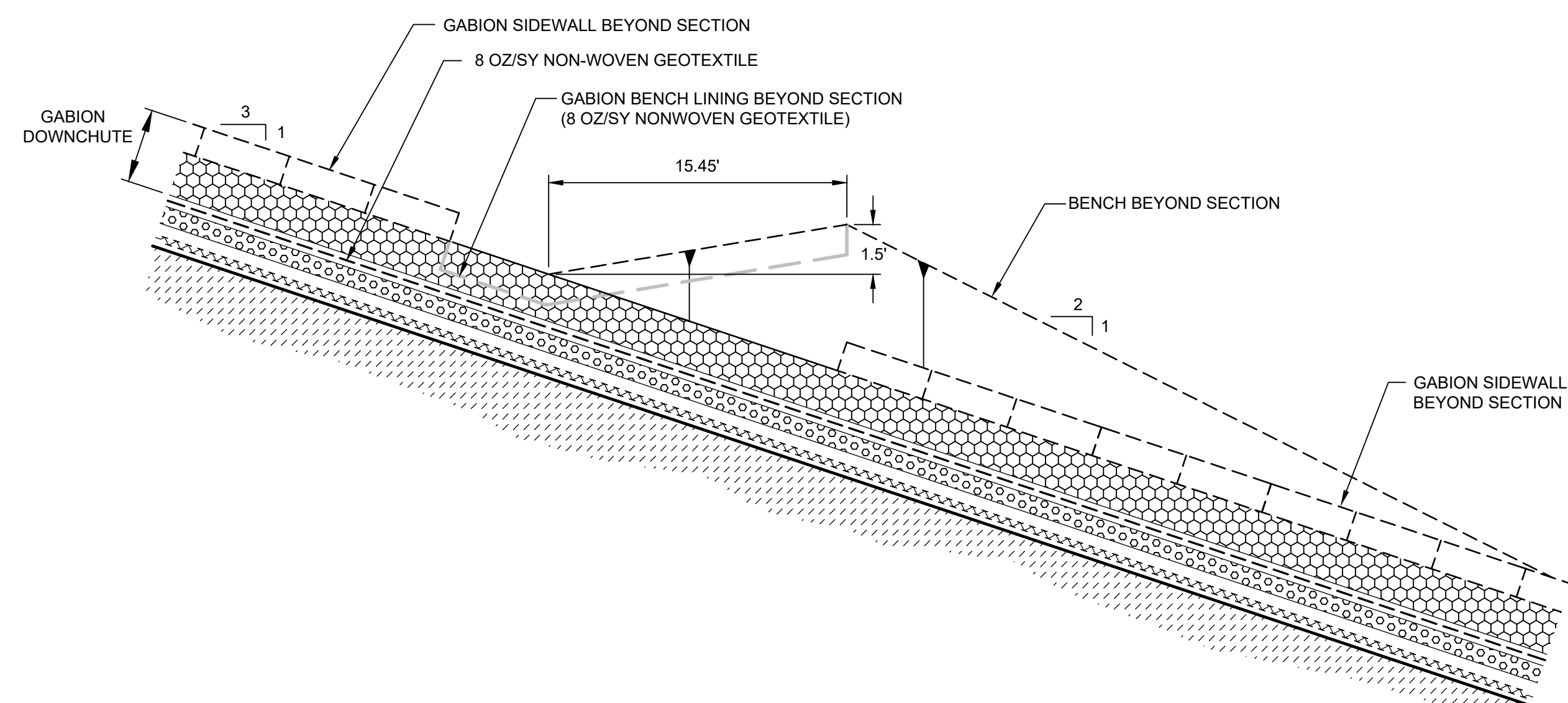
	DATE: MARCH 2026 FILE NO.: ME1418A.03-C24	ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS																											
	Geosyntec consultants engineers scientists innovators 10211 WNCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	<table border="1"> <tr> <th>REVISED</th> <th>DATE</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISED	DATE	BY	APPROVED	DATE						<table border="1"> <tr> <td>CHIEF ENGINEER</td> <td>PROJECT MANAGER</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>ASSISTANT CHIEF ENGINEER</td> <td>CHIEF RIGHT-OF-WAY</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	CHIEF ENGINEER	PROJECT MANAGER			ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY			<table border="1"> <tr> <td>SCALE: NOTED</td> <td>PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY</td> </tr> <tr> <td>DRAWN BY: BW/MJ</td> <td>TITLE: POND 9-2 SECTION AND SPILLWAY RISER DETAILS</td> </tr> <tr> <td>CHECKED BY: MV</td> <td>DRAWING NO.: 23 OF 30</td> </tr> <tr> <td>PROJECT NO.: ME1418A</td> <td> </td> </tr> </table>	SCALE: NOTED	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY	DRAWN BY: BW/MJ	TITLE: POND 9-2 SECTION AND SPILLWAY RISER DETAILS	CHECKED BY: MV	DRAWING NO.: 23 OF 30	PROJECT NO.: ME1418A
REVISED	DATE	BY	APPROVED	DATE																									
CHIEF ENGINEER	PROJECT MANAGER																												
ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY																												
SCALE: NOTED	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY																												
DRAWN BY: BW/MJ	TITLE: POND 9-2 SECTION AND SPILLWAY RISER DETAILS																												
CHECKED BY: MV	DRAWING NO.: 23 OF 30																												
PROJECT NO.: ME1418A																													



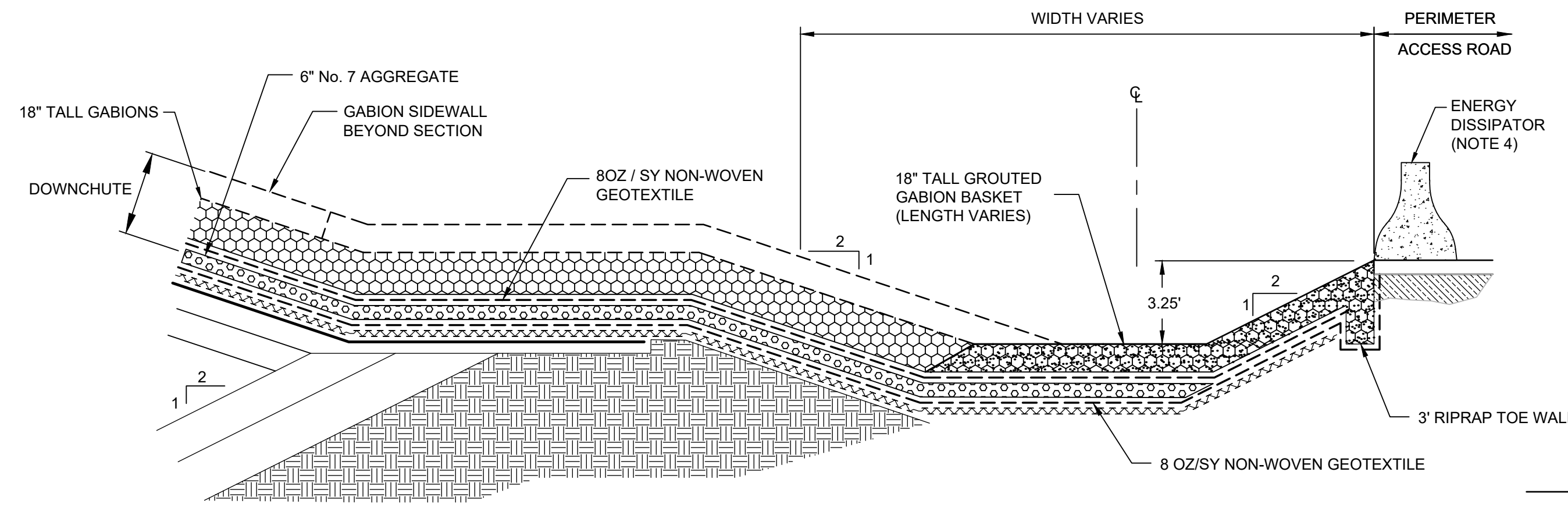
1
21 DETAIL
DOWNCHUTE / TACK-ON COVER BENCH INTERSECTION
SCALE: NTS



2
21 DETAIL
DOWNCHUTE / PERIMETER CHANNEL INTERSECTION
SCALE: NTS



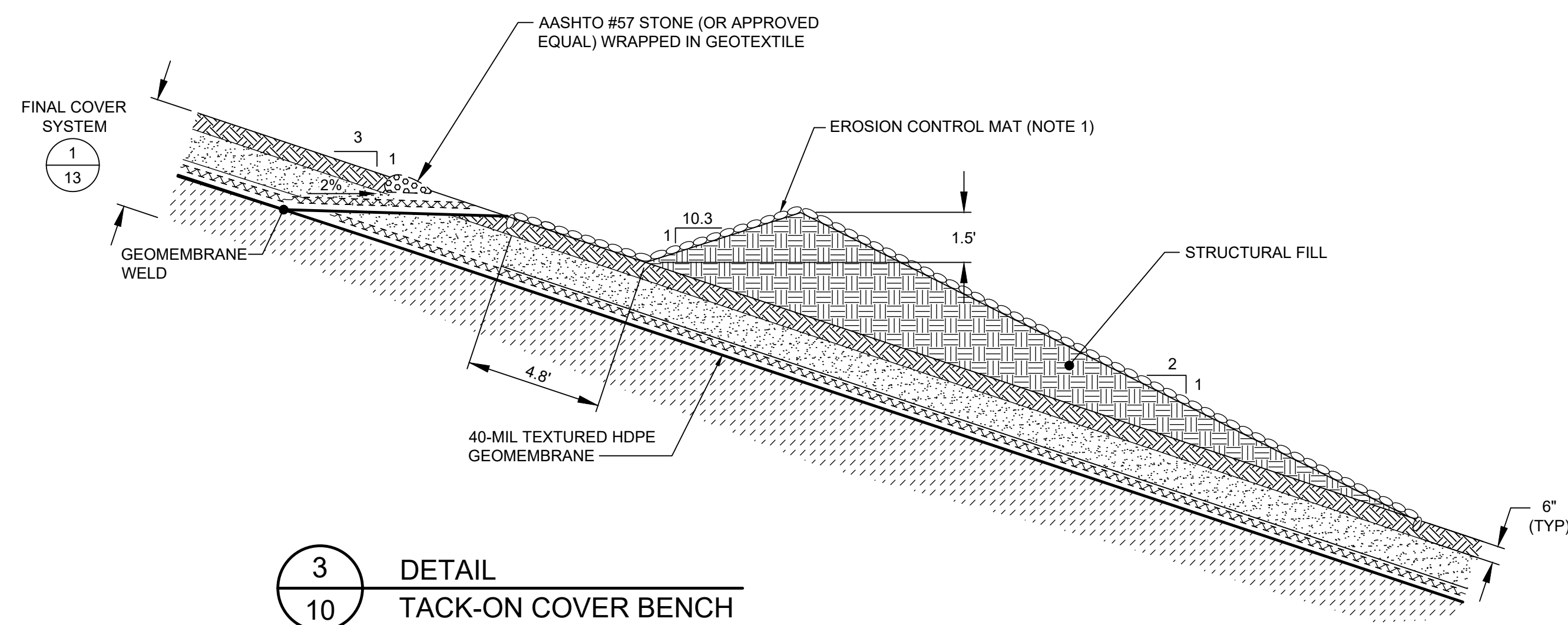
A
SECTION
DOWNCHUTE / TACK-ON COVER BENCH INTERSECTION
SCALE: NTS



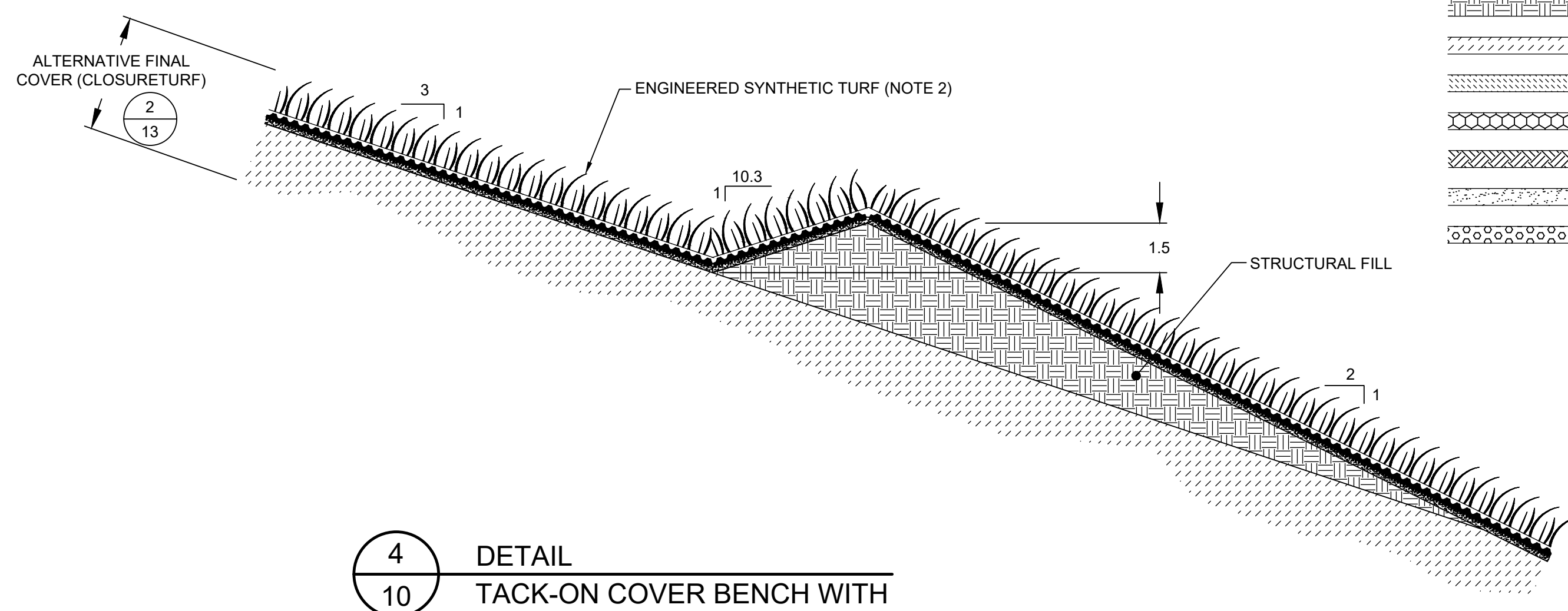
B
SECTION
DOWNCHUTE / PERIMETER CHANNEL INTERSECTION
SCALE: NTS

LEGEND

	GEOTEXTILE
	GEOCOMPOSITE
	GEOMEMBRANE
	WASTE
	STRUCTURAL FILL
	FINAL COVER SOIL
	INTERMEDIATE COVER SOIL
	GABION BASKET
	TOPSOIL
	PROTECTIVE SOIL COVER
	DOWNCHUTE AGGREGATE



3
10 DETAIL
TACK-ON COVER BENCH
SCALE: NTS

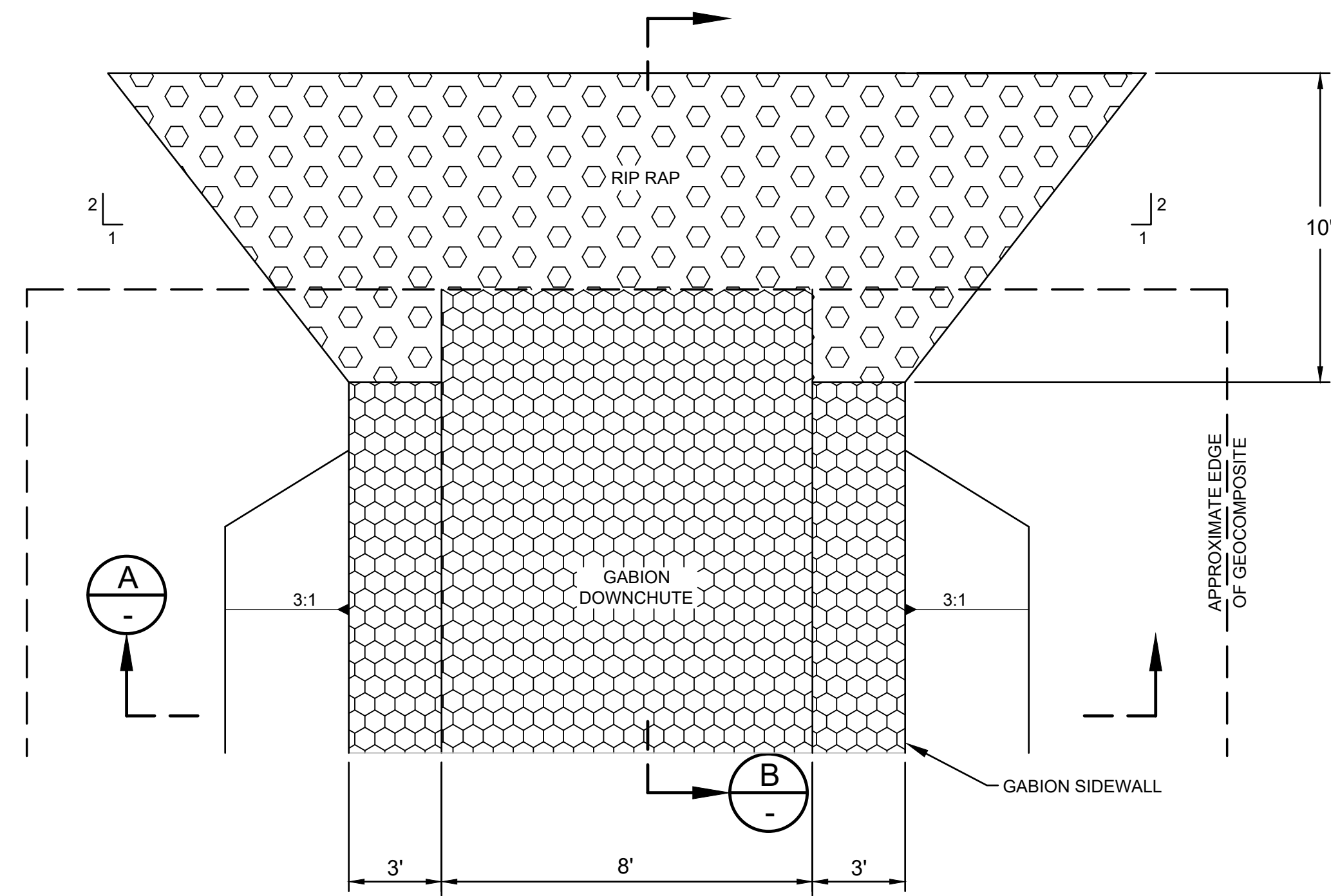


4
10 DETAIL
TACK-ON COVER BENCH WITH ALTERNATIVE FINAL COVER
SCALE: NTS

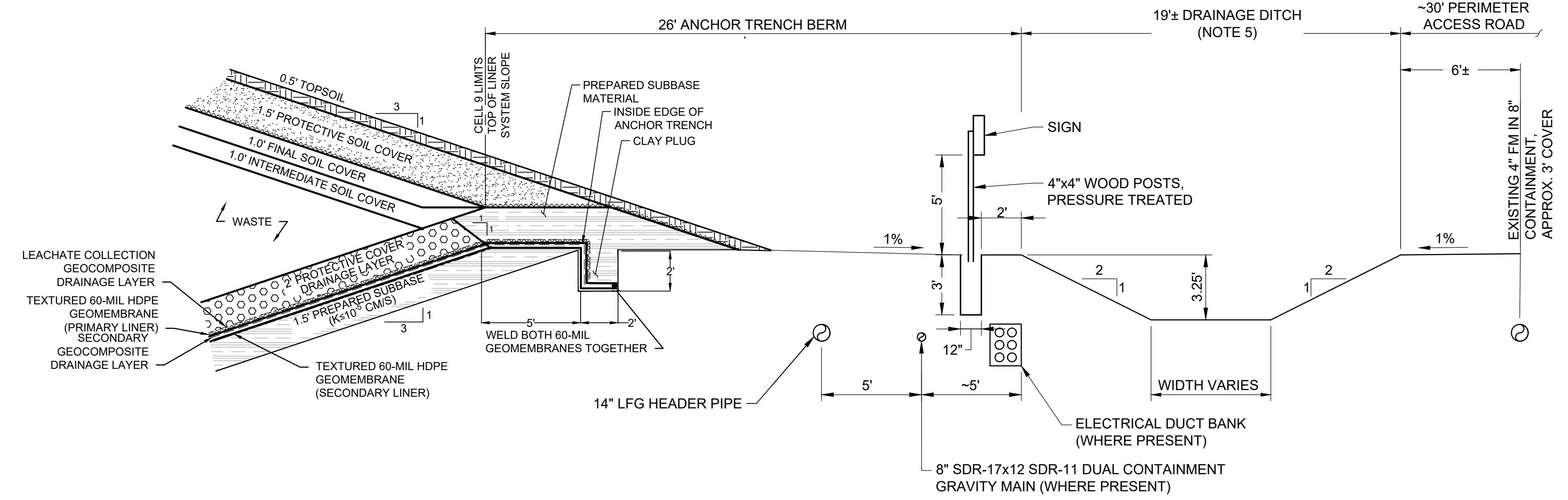
- NOTES:**
- ALL BENCHES SHALL BE LINED WITH TEMPORARY EROSION CONTROL MATTING MEETING THE FOLLOWING CRITERIA:
 - LONGEVITY GREATER THAN 6 MONTHS
 - MAXIMUM FLOW VELOCITY GREATER THAN 6 FT/S
 - MAXIMUM SHEAR STRESS GREATER THAN 1.5 PSF
 - IF ALTERNATIVE FINAL COVER IS USED, DOWNCHUTES SHALL BE LINED WITH HYDROTURF (DETAIL 3 / SHEET 26). DOWNCHUTE / PERIMETER CHANNEL INTERSECTION IS DESIGNED TO ACCOMMODATE FLOW FROM EITHER GABION-LINED OR HYDROTURF-LINED DOWNCHUTES.
 - GABION THICKNESS AND FILL PER MANUFACTURER'S RECOMMENDATION.
 - ENERGY DISSIPATION STRUCTURE SHALL BE DESIGNED PRIOR TO LANDFILL CLOSURE.

	DATE: MARCH 2026	ANNE ARUNDEL COUNTY		
	FILE NO.: ME1418A.03-C26	DEPARTMENT OF PUBLIC WORKS		
	Geosyntec consultants engineers scientists innovators 10211 WNCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	REVISIONS:	APPROVED:	DATE:
		DATE:	BY:	DATE:
SIGNATURE: <i>Neena Viswanath</i>	CHIEF ENGINEER	PROJECT MANAGER	DATE:	
DATE: MARCH 6, 2026	APPROVED:	APPROVED:	DATE:	
	ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY		
	SCALE: NOTED	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY	TITLE: STORMWATER MANAGEMENT SYSTEM DETAILS I	
	DRAWN BY: BW/MJ	DRAWING NO.: 25 OF 30	PROJECT NO.: ME1418A	
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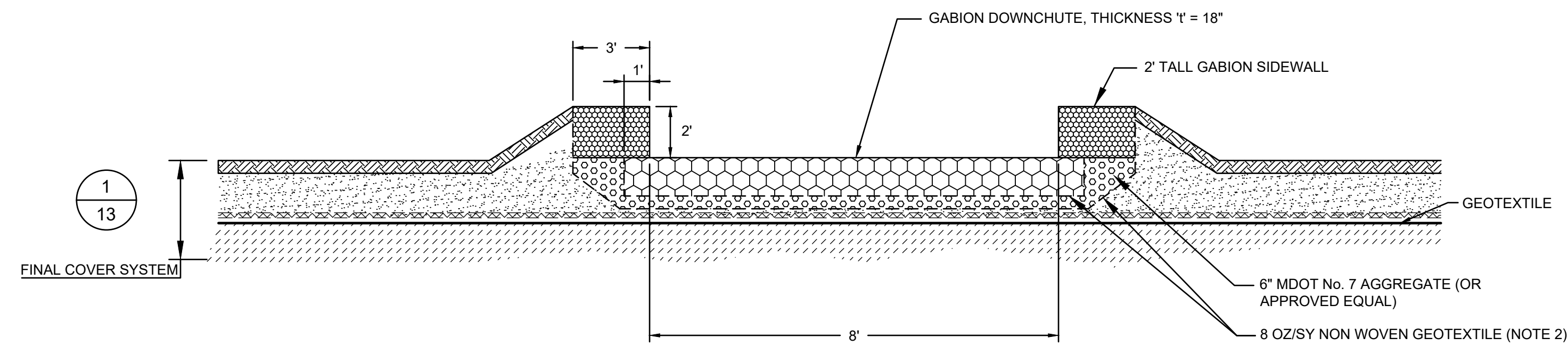
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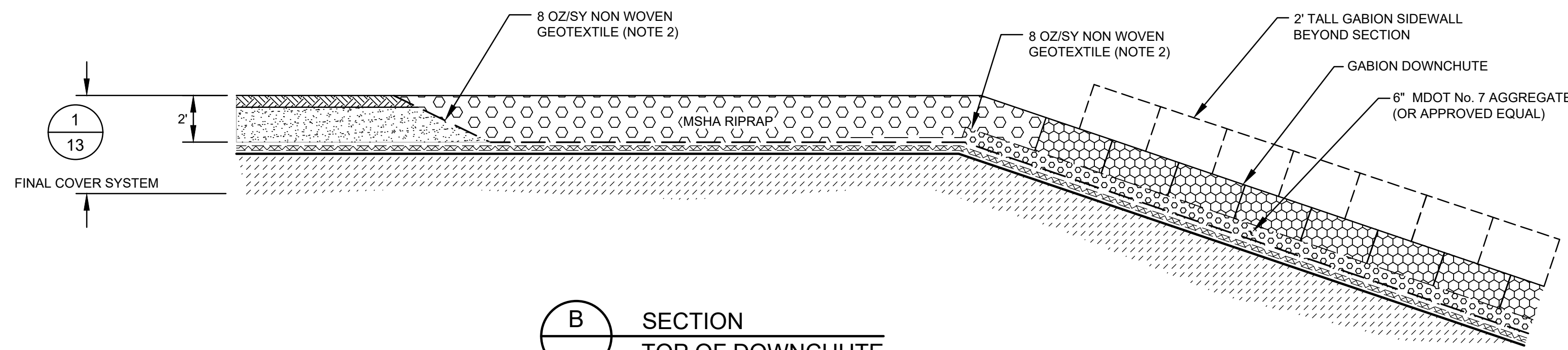
1
21 DETAIL
TOP OF DOWNCHUTE
SCALE: NTS



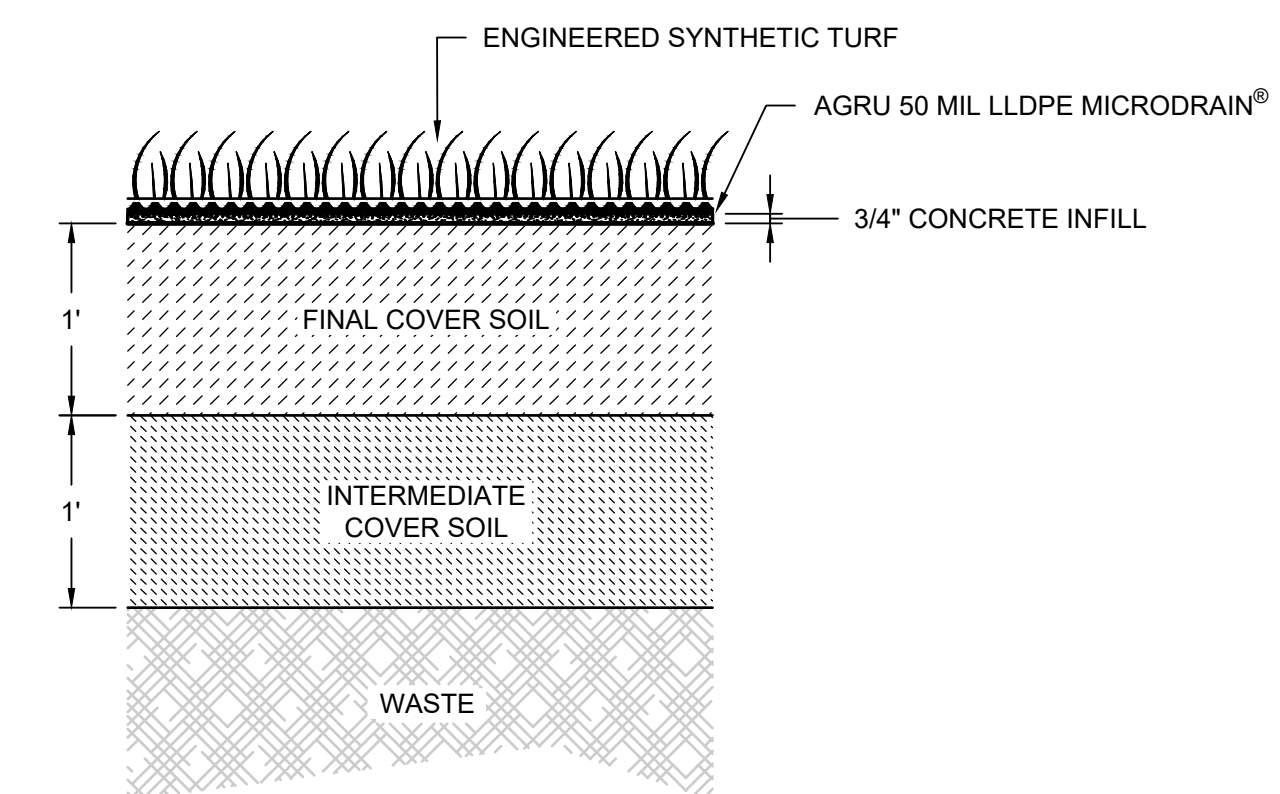
2
26 DETAIL
PERIMETER DRAINAGE CHANNEL
SCALE: NTS



A
- SECTION
DOWNCHUTE
SCALE: NTS



B
- SECTION
TOP OF DOWNCHUTE
SCALE: NTS



3
26 DETAIL
ALTERNATIVE FINAL COVER
DOWNCHUTE LINING (HYDROTURF)
(NOTE 4)
SCALE: NTS

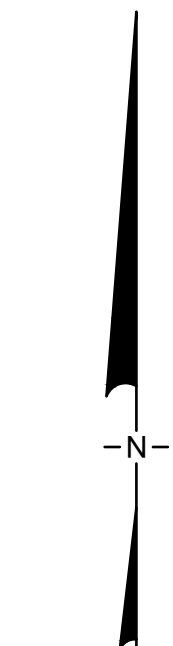
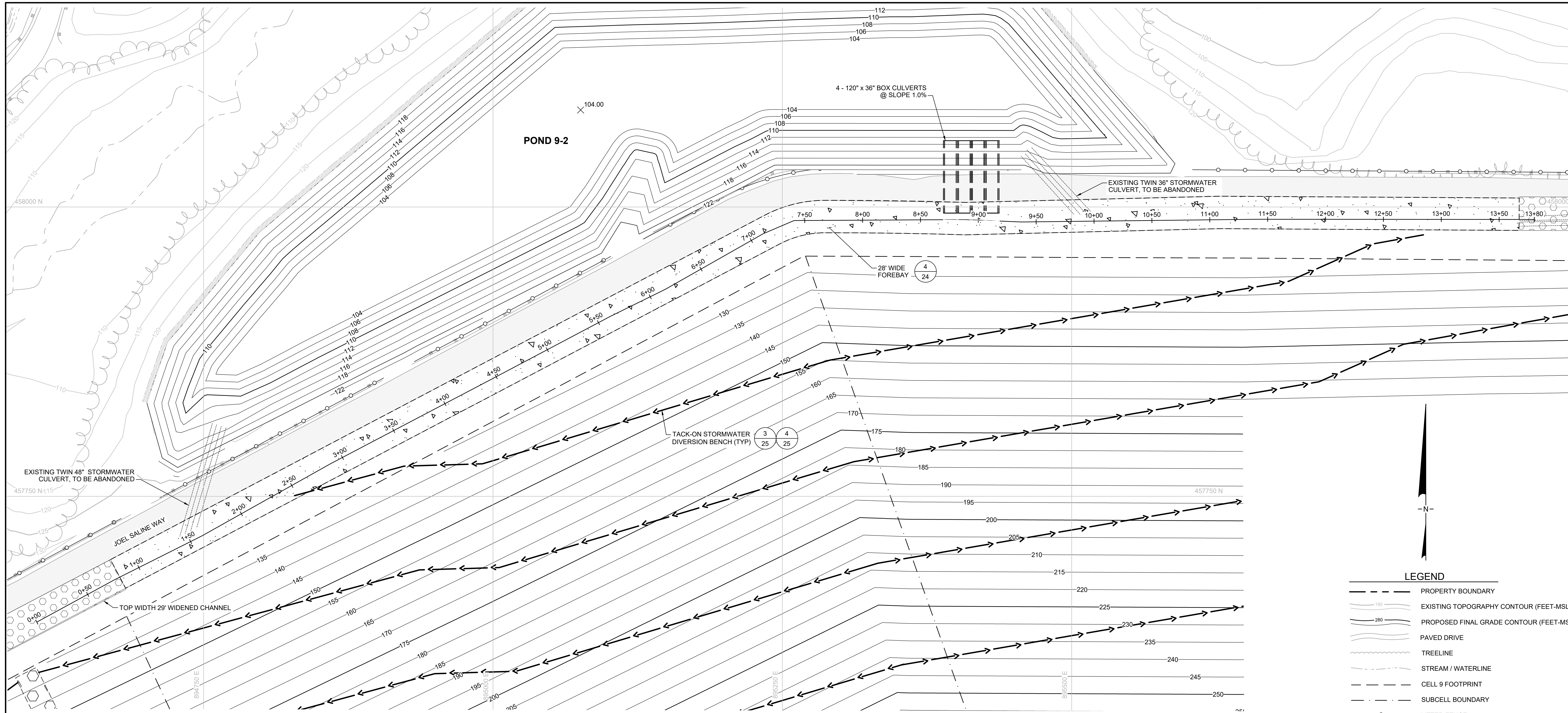
LEGEND	
	GEOTEXTILE
	GEOCOMPOSITE
	GEOMEMBRANE
	WASTE
	STRUCTURAL FILL
	FINAL COVER SOIL
	INTERMEDIATE COVER SOIL
	GABION BASKET
	TOPSOIL
	PROTECTIVE SOIL COVER
	DOWNCHUTE AGGREGATE

NOTES:

- GABION THICKNESS AND FILL WAS SELECTED PER MANUFACTURER'S RECOMMENDATION.
- OVERLAP BETWEEN GEOTEXTILES SHALL BE MINIMUM 12 INCHES.
- GEOSYNTHETIC MATERIALS SHOWN AT EXAGGERATED SCALE FOR CLARITY.
- ALTERNATIVE FINAL COVER DOWNCHUTE LINING IS COMMERCIALY KNOWN AS HYDROTURF® MANUFACTURED BY WATERSHED GEO, LLC.
- WHERE PERIMETER CHANNEL IS WIDENED TO 29 FEET OR WHERE FOREBAY IS PRESENT, PERIMETER ACCESS ROAD WIDTH SHALL BE REDUCED ACCORDINGLY.
- SUBCELL 9.1 AND 9.2, WHICH ARE ALREADY CONSTRUCTED, AND SUBCELL 9.3, WHICH IS CURRENTLY UNDER CONSTRUCTION, HAVE LINER SIDESLOPES OF 4H:1V.

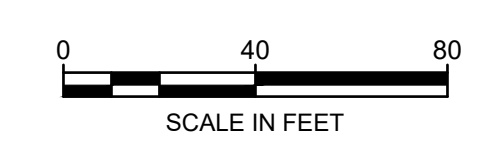
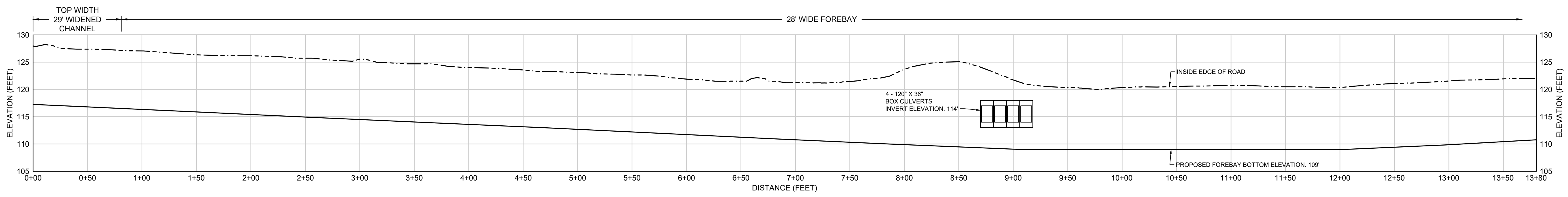
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	DATE: MARCH 2026	ANNE ARUNDEL COUNTY	
	FILE NO.: ME1418A.03-C27	DEPARTMENT OF PUBLIC WORKS	
Geosyntec consultants engineers scientists innovators 10211 WINDOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	REVISIONS:	APPROVED: _____ DATE: _____	APPROVED: _____ DATE: _____
	DATE: _____ BY: _____	CHIEF ENGINEER APPROVED: _____ DATE: _____	PROJECT MANAGER APPROVED: _____ DATE: _____
SIGNATURE: _____ DATE: MARCH 6, 2026	ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY	SCALE: NOTED DRAWN BY: BW/MJ CHECKED BY: MV DRAWING NO.: 26 OF 30 PROJECT NO.: ME1418A
			PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY TITLE: STORMWATER MANAGEMENT SYSTEM DETAILS II



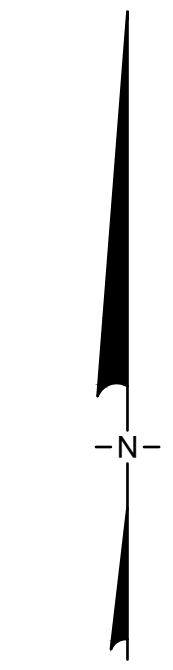
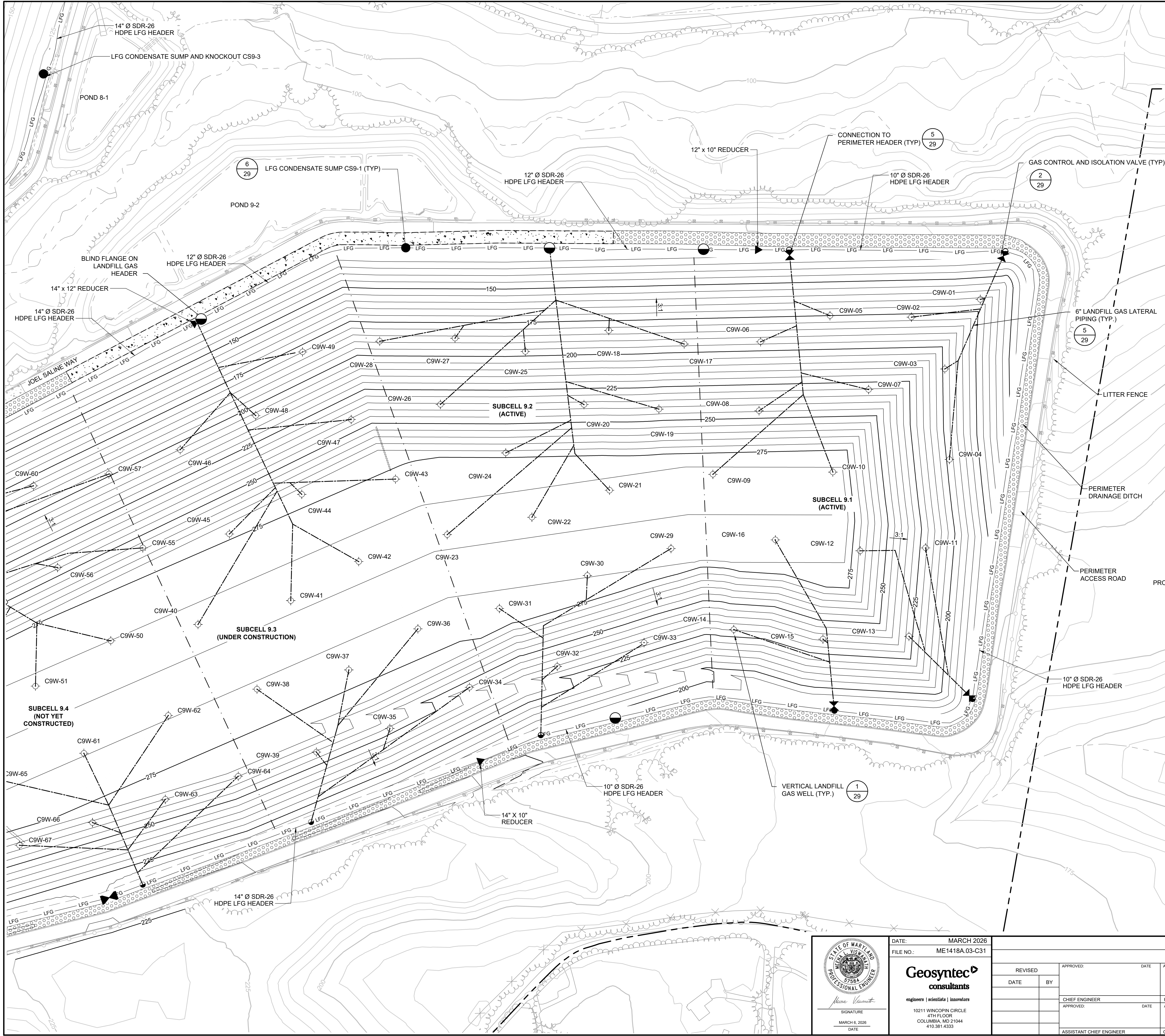
LEGEND

- PROPERTY BOUNDARY
- EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
- PROPOSED FINAL GRADE CONTOUR (FEET-MSL)
- PAVED DRIVE
- TREELINE
- STREAM / WATERLINE
- CELL 9 FOOTPRINT
- SUBCELL BOUNDARY
- LITTER FENCE
- GUARDRAIL
- STORMWATER CULVERT
- RIPRAP
- TACK-ON BENCH
- ACCESS ROAD
- TOP WIDTH 29' WIDENED CHANNEL
- 28' FOREBAY

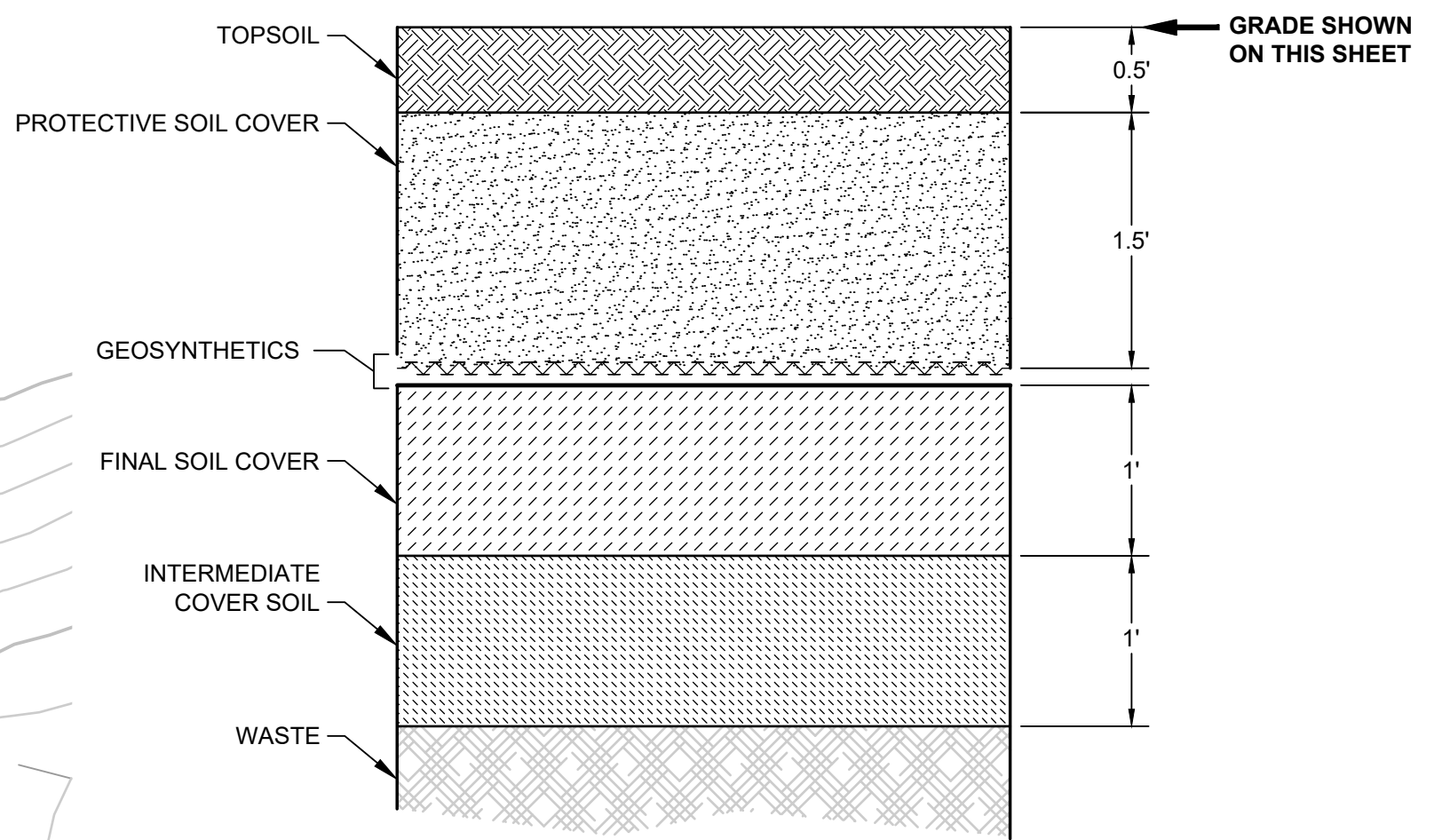


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	engineers scientists innovators 10211 WNWCPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	REVISIONS: DATE BY CHIEF ENGINEER APPROVED: DATE ASSISTANT CHIEF ENGINEER	APPROVED: DATE PROJECT MANAGER APPROVED: DATE CHIEF RIGHT-OF-WAY	SCALE: NOTED DRAWN BY: BW/MJ CHECKED BY: MV DRAWING NO.: 27 OF 30 PROJECT NO.: ME1418A

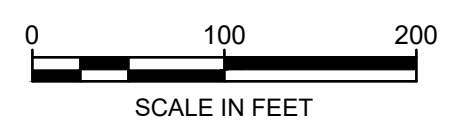


- LEGEND**
- PROPERTY BOUNDARY
 - EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
 - PROPOSED FINAL GRADE CONTOUR (FEET-MSL)
 - STRUCTURE / BUILDING
 - FENCE
 - PAVED DRIVE
 - GRAVEL DRIVE
 - TREELINE
 - STREAM / WATERLINE
 - STORMWATER CULVERT
 - RIPRAP
 - EXISTING CONCRETE MOMENT SLAB
 - CELL 9 FOOTPRINT
 - SUBCELL BOUNDARY
 - LITTER FENCE
 - GUARDRAIL
 - LANDFILL GAS HEADER
 - VERTICAL LANDFILL GAS LATERAL PIPE
 - ISOLATION VALVE
 - BLIND FLANGE ON LANDFILL GAS HEADER
 - REDUCER
 - VERTICAL LANDFILL GAS WELL



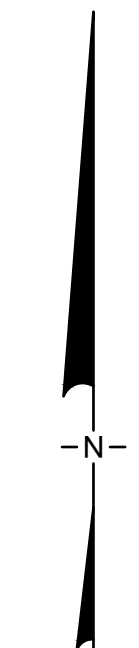
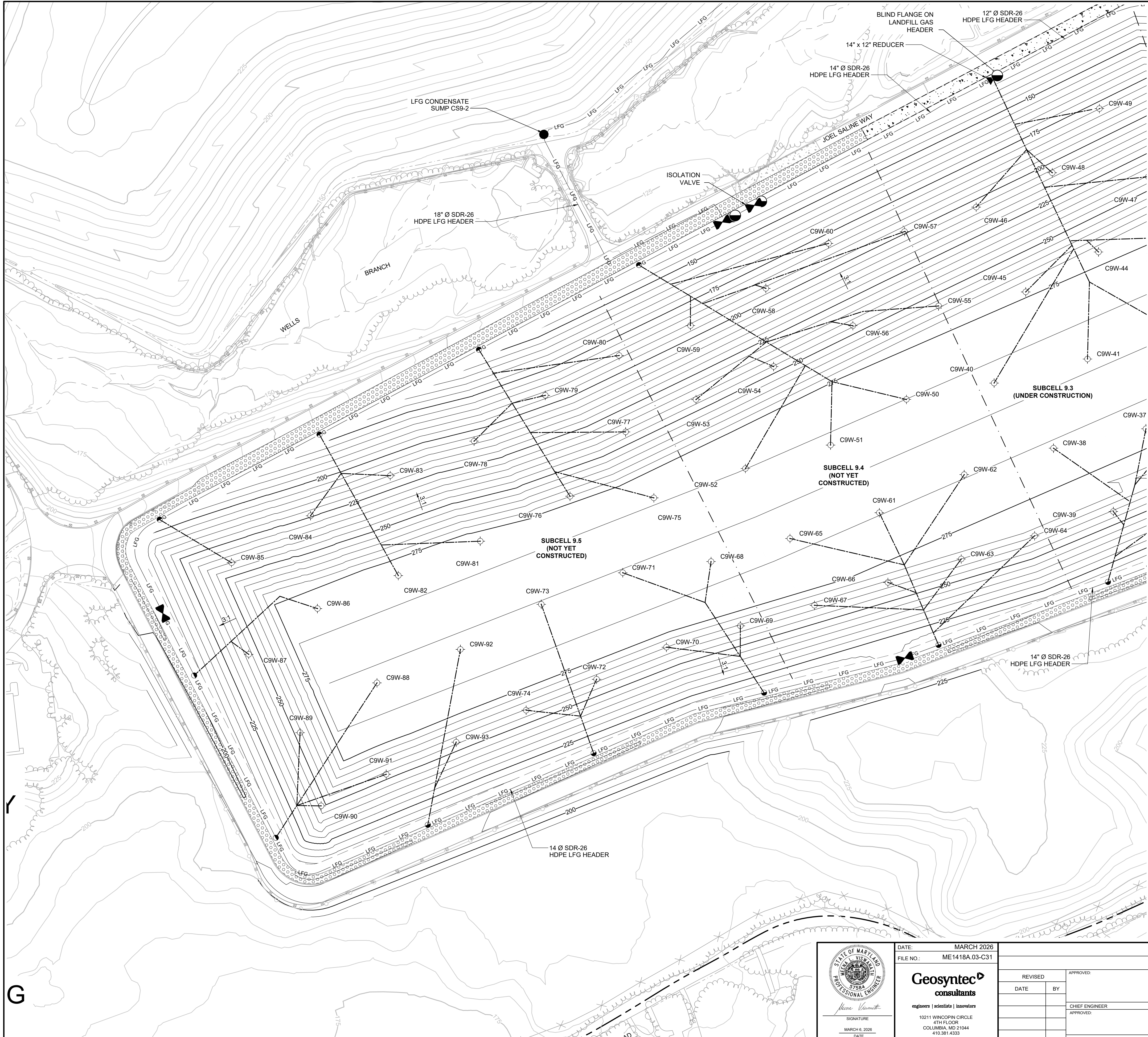
1 DETAIL
COVER SYSTEM (TYP.)
SCALE: NTS

- NOTES:
1. SEE DRAWING NO. 2 FOR GENERAL NOTES.
 2. PROVIDE A MINIMUM PIPE SLOPE OF 3 PERCENT ALONG LATERAL PIPES.



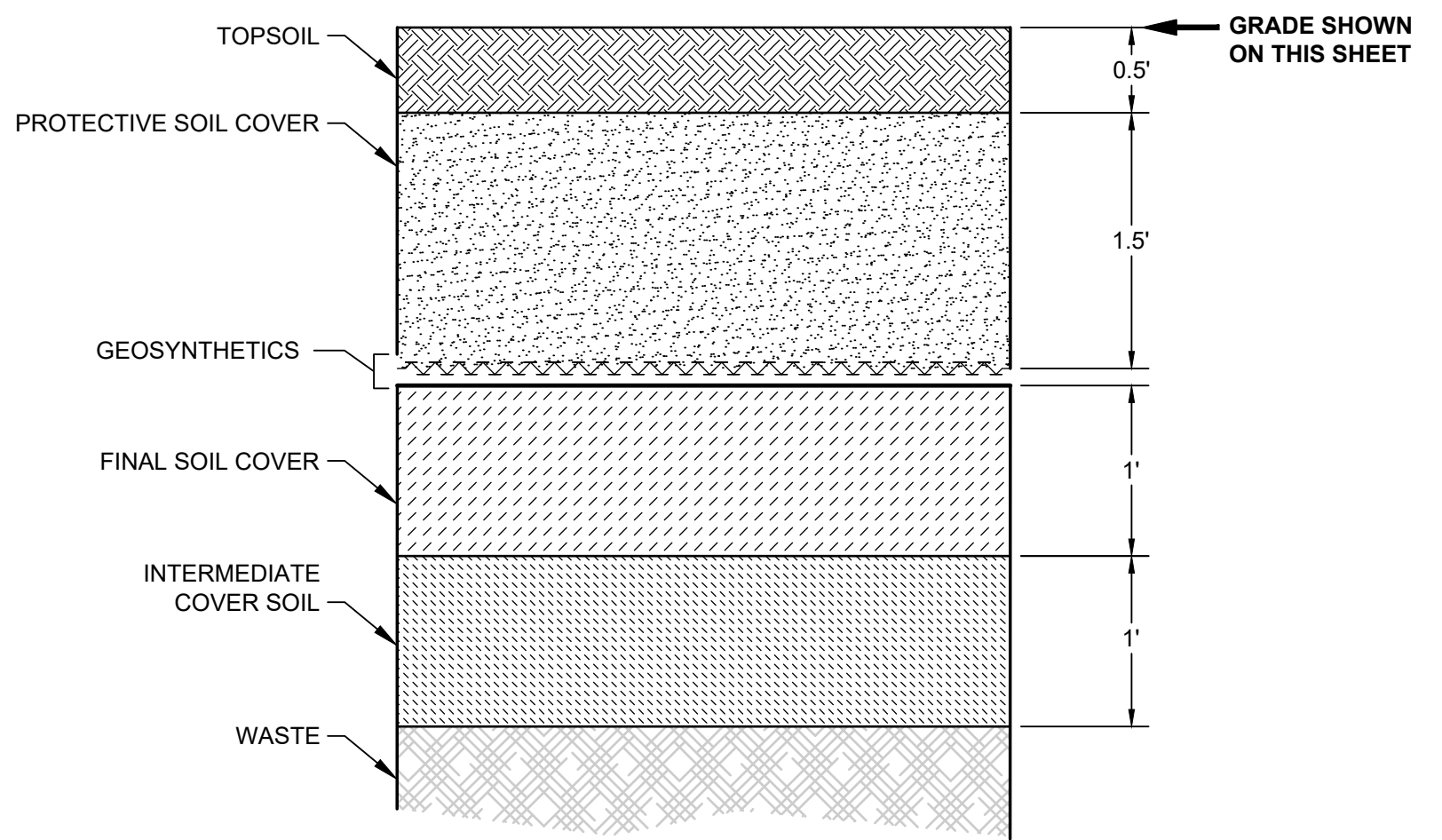
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 SIGNATURE: <i>Neena Viswanath</i> DATE: MARCH 6, 2026		DATE: MARCH 2026 FILE NO.: ME1418A.03-C31		ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS																																																			
		Geosyntec consultants <small>engineers scientists innovators</small> 10211 WINDCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REVISED</th> <th>APPROVED:</th> <th>DATE</th> <th>APPROVED:</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		REVISED	APPROVED:	DATE	APPROVED:	DATE																																				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE: NOTED</td> <td>PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY</td> </tr> <tr> <td>DRAWN BY: BW/MJ</td> <td>TITLE: LANDFILL GAS MANAGEMENT SYSTEM PLAN I</td> </tr> <tr> <td>CHECKED BY: MV</td> <td> </td> </tr> <tr> <td>DRAWING NO.: 28 OF 30</td> <td> </td> </tr> <tr> <td>PROJECT NO.: ME1418A</td> <td> </td> </tr> </table>		SCALE: NOTED	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY	DRAWN BY: BW/MJ	TITLE: LANDFILL GAS MANAGEMENT SYSTEM PLAN I	CHECKED BY: MV		DRAWING NO.: 28 OF 30	
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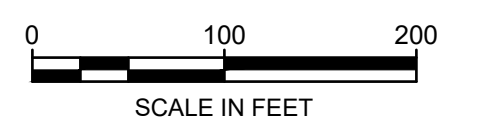
LEGEND

	PROPERTY BOUNDARY
	EXISTING TOPOGRAPHY CONTOUR (FEET-MSL)
	PROPOSED FINAL GRADE CONTOUR (FEET-MSL)
	STRUCTURE / BUILDING
	FENCE
	PAVED DRIVE
	GRAVEL DRIVE
	TREELINE
	STREAM / WATERLINE
	STORMWATER CULVERT
	RIPRAP
	EXISTING CONCRETE MOMENT SLAB
	CELL 9 FOOTPRINT
	SUBCELL BOUNDARY
	LITTER FENCE
	GUARDRAIL
	LANDFILL GAS HEADER
	VERTICAL LANDFILL GAS LATERAL PIPE
	ISOLATION VALVE
	BLIND FLANGE ON LANDFILL GAS HEADER
	REDUCER
	VERTICAL LANDFILL GAS WELL



1 DETAIL
COVER SYSTEM (TYP.)
SCALE: NTS

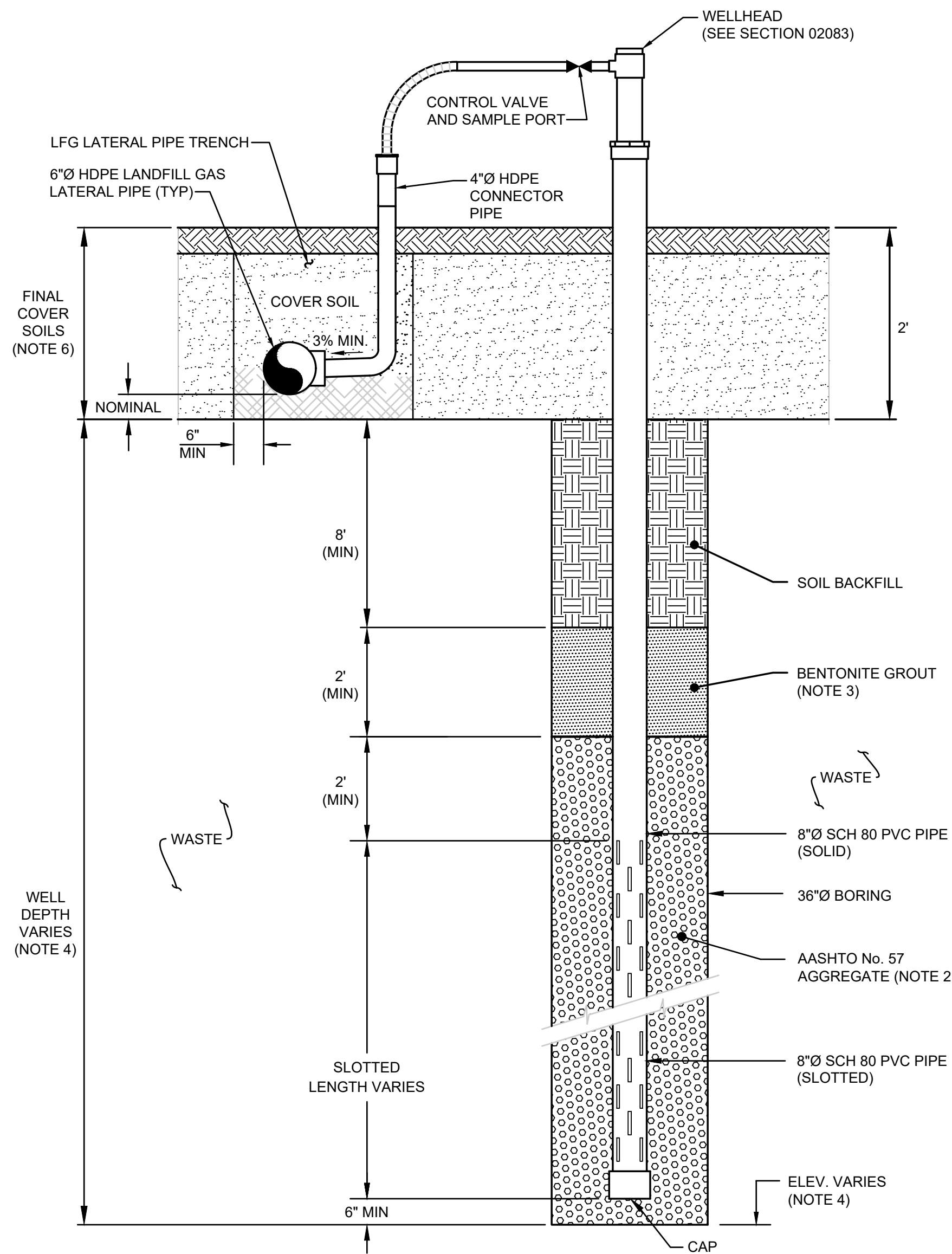
- NOTES:
- SEE DRAWING NO. 2 FOR GENERAL NOTES.
 - PROVIDE A MINIMUM PIPE SLOPE OF 3 PERCENT ALONG LATERAL PIPES.



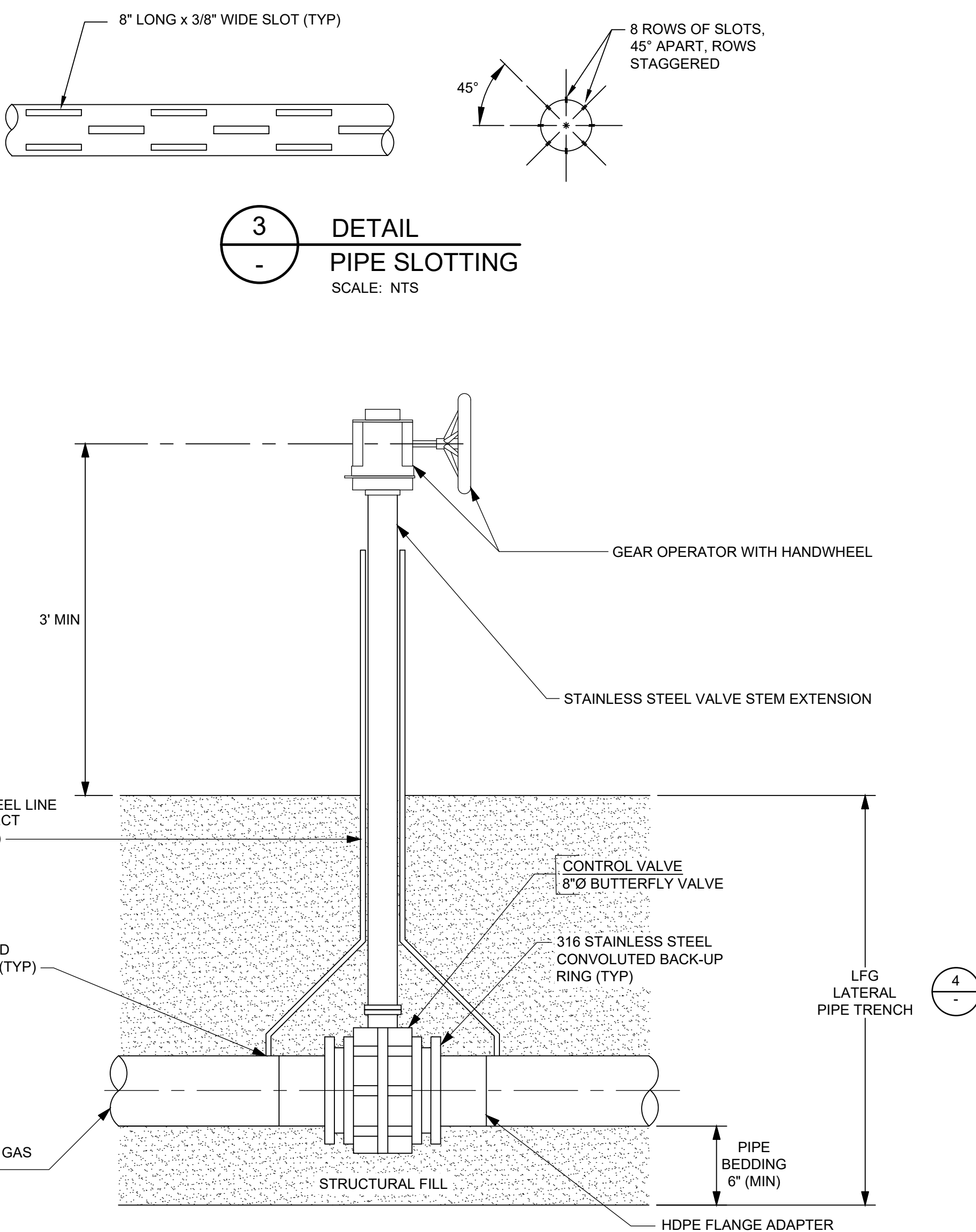
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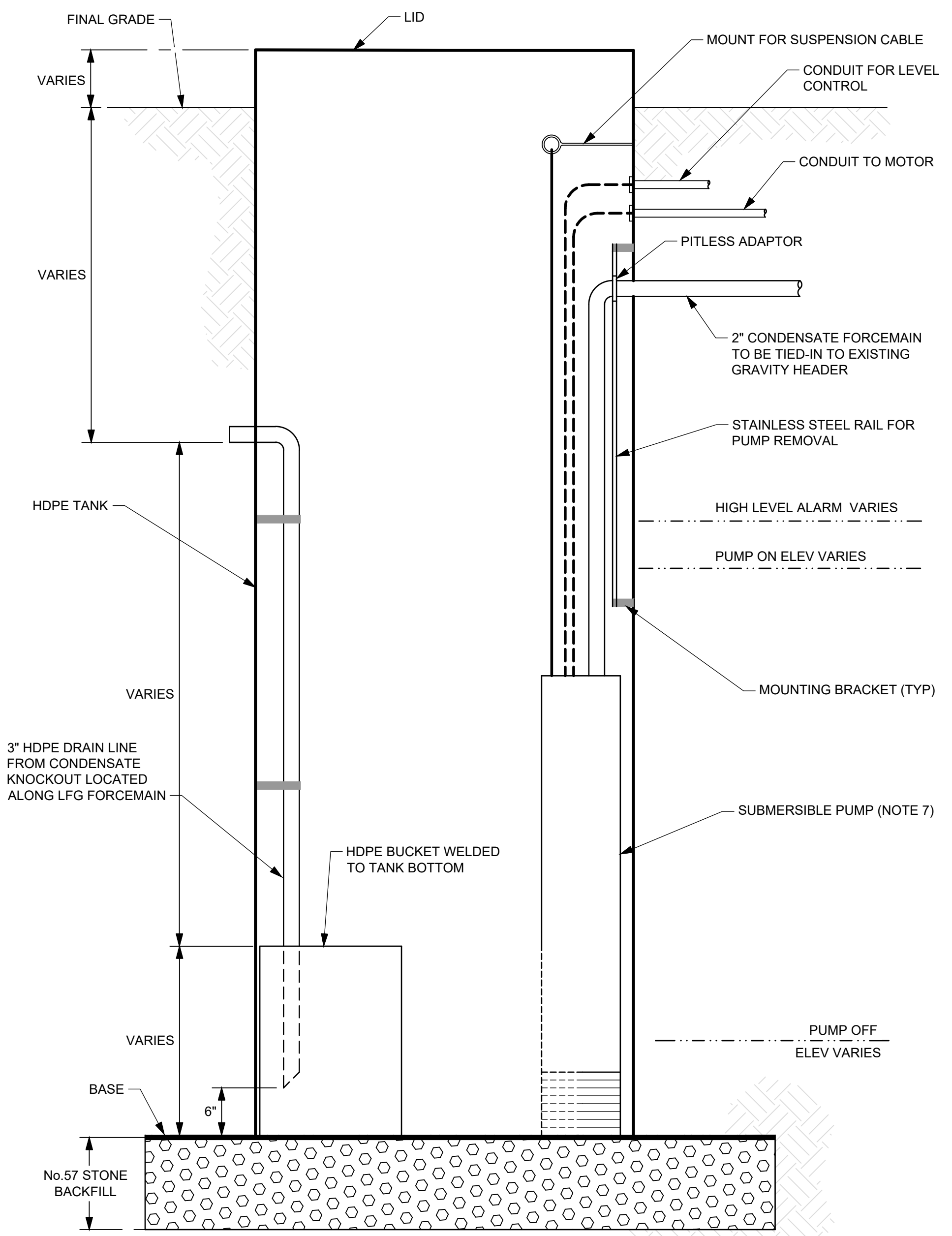
	DATE: MARCH 2026	ANNE ARUNDEL COUNTY																			
	FILE NO.: ME1418A.03-C31	DEPARTMENT OF PUBLIC WORKS																			
		PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY																			
SIGNATURE: [Signature] DATE: MARCH 8, 2026	10211 WNWCPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333	<table border="1"> <tr> <th>REVISED</th> <th>DATE</th> <th>BY</th> <th>APPROVED</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REVISED	DATE	BY	APPROVED	DATE						<table border="1"> <tr> <td>CHIEF ENGINEER</td> <td>PROJECT MANAGER</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>ASSISTANT CHIEF ENGINEER</td> <td>CHIEF RIGHT-OF-WAY</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	CHIEF ENGINEER	PROJECT MANAGER			ASSISTANT CHIEF ENGINEER	CHIEF RIGHT-OF-WAY		
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1
28 **DETAIL**
VERTICAL LANDFILL GAS WELL AND WELLHEAD
(NOTE 1)
SCALE: NTS

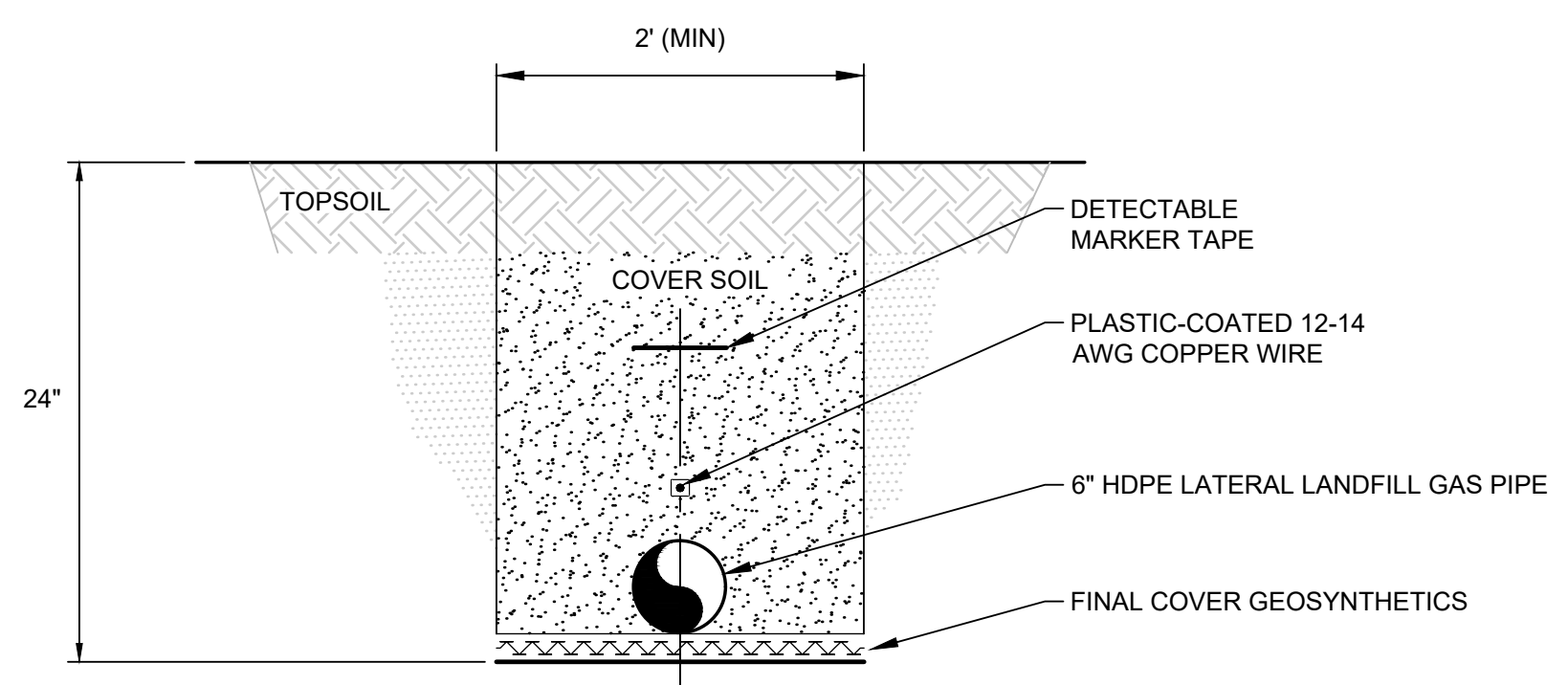


2
28 **DETAIL**
GAS CONTROL AND ISOLATION VALVE
(NOTE 1)
SCALE: NTS

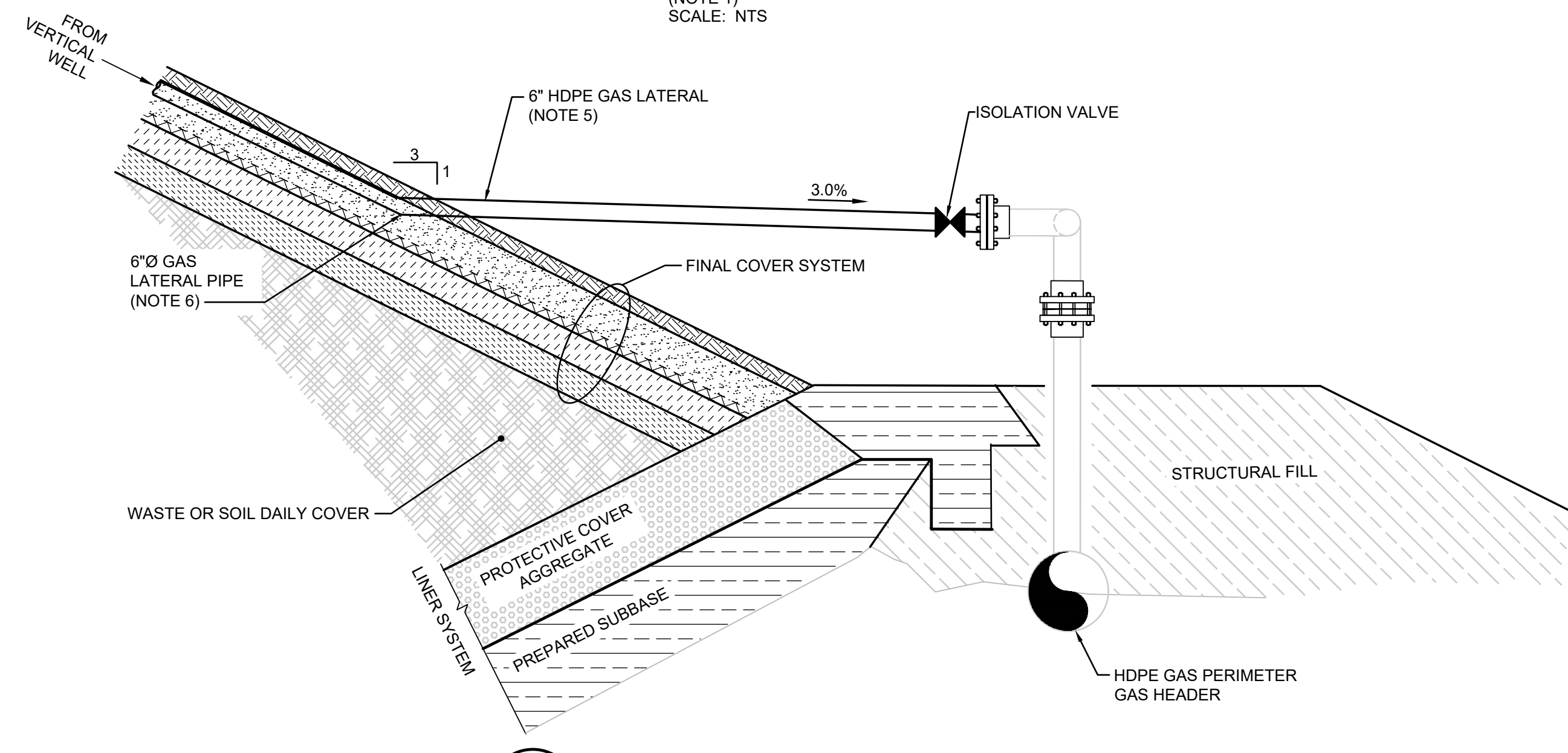


6
DETAIL
CONDENSATE SUMP AND PUMP
SCALE: NTS

- NOTES:
- MINIMUM 6" GRANULAR FILL MATERIAL BETWEEN ALL BURIED COMPONENTS OF LANDFILL GAS TRANSMISSION SYSTEM AND GEOSYNTHETIC COMPONENTS OF FINAL COVER SYSTEM. IF ANY LFG SYSTEM COMPONENTS ARE INSTALLED PRIOR TO FINAL CLOSURE, LFG PIPING MAY SIT DIRECTLY ON INTERMEDIATE COVER UNTIL FINAL CLOSURE.
 - AASHTO No. 57 AGGREGATE OR ALTERNATIVE ENGINEER-APPROVED INERT GRANULAR MEDIA THAT SUPPORTS SUFFICIENT PORE SIZES MAY BE USED (E.G. SCRAP TIRE CHIPS OR CRUSHED GLASS).
 - BENTONITE CHIPS SHALL BE HYDRATED PER MANUFACTURER'S RECOMMENDATIONS IN 6" LIFTS.
 - WELL TERMINATES A MINIMUM OF 15 FT ABOVE TOP OF DRAINAGE/PROTECTION LAYER IN LINER SYSTEM.
 - 6" HDPE GAS LATERAL PIPE SHALL BE SUPPORTED WITH PIPE SUPPORTS OR A SOIL WEDGE.
 - IF ALTERNATIVE FINAL COVER SYSTEM IS SELECTED, LATERAL PIPING WILL LAY ON TOP OF FINAL COVER SYSTEM.
 - SUMP PUMP SHALL BE EPG SERIES S TRUEPUMP, MODEL S-2, 1/2 HP, 230V-1-60Hz, 5.0 FLA OR EQUAL.



4
28 **DETAIL**
LFG LATERAL PIPE TRENCH
(NOTE 1, 6)
SCALE: NTS



5
28 **DETAIL**
PERIMETER HEADER CONNECTION
(NOTE 1)
SCALE: NTS

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		DATE: MARCH 2026		ANNE ARUNDEL COUNTY DEPARTMENT OF PUBLIC WORKS		
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Geosyntec consultants engineers scientists innovators 10211 WINDCOPIN CIRCLE 4TH FLOOR COLUMBIA, MD 21044 410.381.4333		REVISIONS: DATE BY	APPROVED: DATE CHIEF ENGINEER APPROVED: DATE	APPROVED: DATE PROJECT MANAGER APPROVED: DATE	SCALE: NOTED DRAWN BY: BWM/J CHECKED BY: MV DRAWING NO.: 29 OF 30 PROJECT NO.: ME1418A	PROJECT: CELL 9 VERTICAL EXPANSION MILLERSVILLE LANDFILL AND RESOURCE RECOVERY FACILITY TITLE: LANDFILL GAS MANAGEMENT SYSTEM DETAILS

