



DANE COUNTY NO. 2 (RODEFELD) LANDFILL

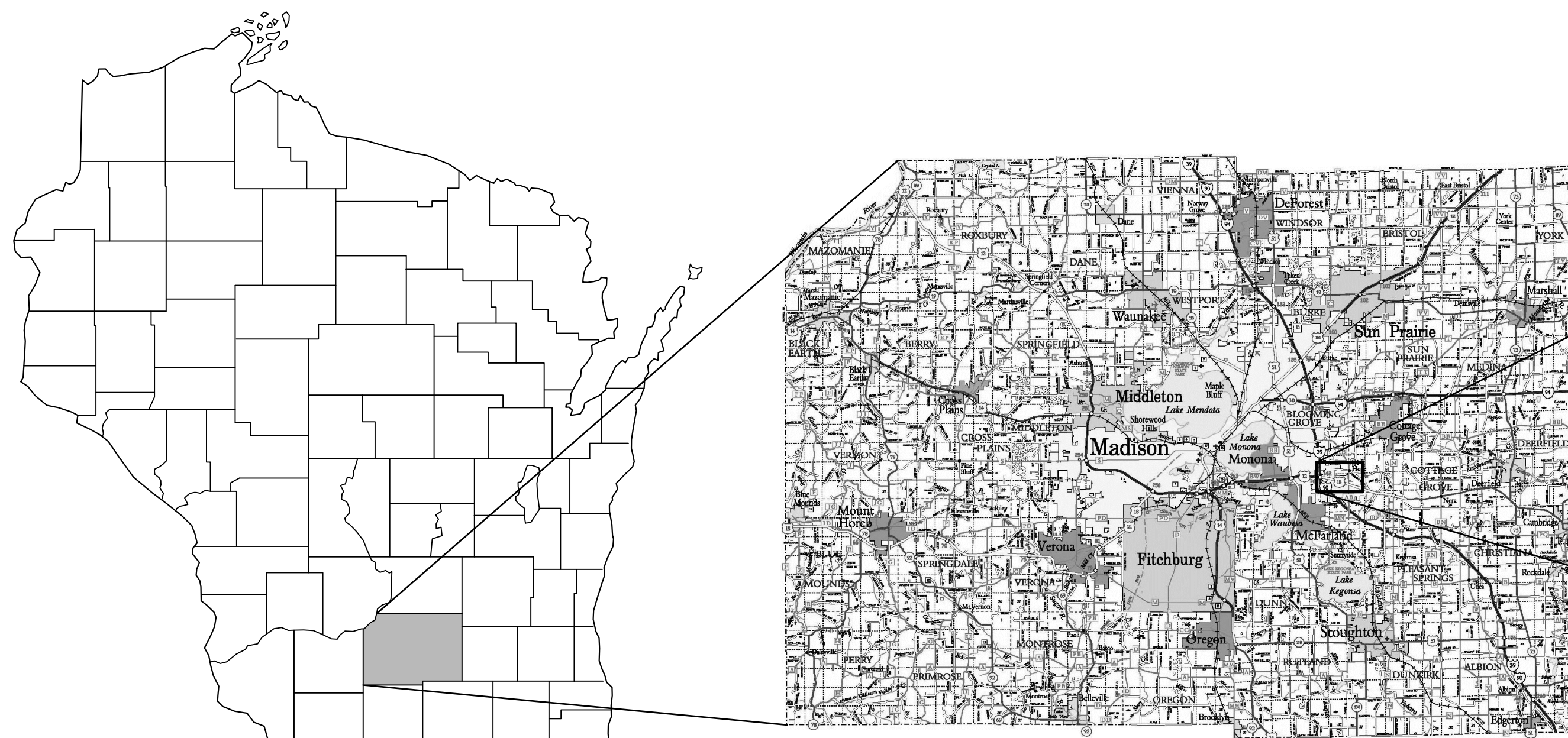
PHASES 11/12

LINER CONSTRUCTION

PREPARED FOR: **DANE COUNTY DEPARTMENT OF PUBLIC WORKS**
SOLID WASTE DIVISION
DANE COUNTY, WISCONSIN

PREPARED BY: **TRC ENVIRONMENTAL CORPORATION**
MADISON, WISCONSIN

DATE: **OCTOBER 2019**



WISCONSIN

DANE COUNTY

SITE LOCATOR

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NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.



708 Heartland Trail
 Suite 3000
 Madison, WI 53717
 Phone: 608.826.3600

STANDARD LEGEND

EXISTING	DESIGN	ROADWAYS
		GRAVEL
		PAVED
		RAILROAD
		CENTERLINE
		WALKS/DRIVES
		WALLS/FENCES
		EARTH WALL
		FENCE LINE
		CONTOURS
		INDEX CONTOUR (10' INTERVAL)
		INTERMEDIATE CONTOUR (2' INTERVAL)
		DEPRESSION
		SPOT ELEVATION
		TREES
		DECIDUOUS
		CONIFER
		BUSH
		TREE LINE AND/OR BUSH
		WATER
		BODIES OF WATER
		RIVER/STREAMS
		INTERMITTENT STREAM
		DITCH WITH FLOW AND DIRECTION
		BRIDGE
		CULVERT
		EDGE OF WATER / APPROXIMATE LIMITS OF WET AREA
		AREA CONTAINING WETLAND VEGETATION
		BUILDING
		BUILDING
		FEATURES
		WATER TABLE WELL
		SOIL BORING
		TEST PIT
		PIEZOMETER
		STAFF GAUGE
		PRIVATE WELL
		LEACHATE HEAD WELL
		LEACHATE HEAD WELL MONITORING PORT
		GAS VENT
		GAS MONITORING PROBE
		LYSIMETER
		SEPTIC COVER
		SEPTIC VENT
		ABANDONED PRIVATE WELL
		ABANDONED MONITORING WELL
		ABANDONED PIEZOMETER
		UTILITIES
		STORM SEWER LINE
		SANITARY SEWER LINE
		UNDERGROUND ELECTRIC
		ELECTRICAL WIRES
		UNDERGROUND TELEPHONE
		TELEPHONE
		CABLE
		WATER
		GAS
		LIGHT POLE BASE
		MISCELLANEOUS
		LIMITS OF COMPOSITE LINER CONSTRUCTION
		SEDIMENT CONTAINMENT FENCE
		LIMITS OF WASTE (OLD LANDFILL)
		LIMITS OF WASTE (EASTERN EXPANSION)
		PHASE / MODULE LINE
		APPROXIMATE LIMITS OF CONSTRUCTION
		SEDIMENT EROSION CONTROL LOGS

NOTE:
 1. THESE SYMBOLS DO NOT APPLY TO SHEET 3, ALL EXISTING FEATURES SHOWN AS BOLD ON PLAN SHEET 3
 2. SYMBOLS IN LEGEND ON INDIVIDUAL SHEETS SUPERSEDE SYMBOLS SHOWN IN THIS SHEET.

EXISTING	PROPOSED	SURVEY DATA
		PROPERTY LINE
		RIGHT-OF-WAY LINE
		BENCH MARK
		SURVEY CONTROL POINT
		MONUMENT
		SECTION-CORNER / QUARTER-CORNER
		PIPE
		COLLECTION PIPE CLEANOUT
		MANHOLE
		COLLECTION PIPE (PERFORATED)
		TRANSFER PIPE (SOLID WALL)
		LEACHATE FORCEMAIN
		SURFACE
		PHASE/MODULE DELINEATION BERM
		SEDIMENTATION BASIN
		FINAL COVER DIVERSION BERM
		RIPRAP SPILLWAY
		STONE TRACKING PAD
		EROSION CONTROL MAT / TURF REINFORCEMENT MAT
		PLAN SHEET
		GRID TICK AND STATION
		GRID TICK AND STATION
		DETAIL 1 ON SHEET 5
		SLOPE PERCENT AND DIRECTION
		ENGINEERING/GEOLOGIC CROSS SECTION LOCATION
		SURFACE WATER FLOW ARROW

STANDARD NOTES

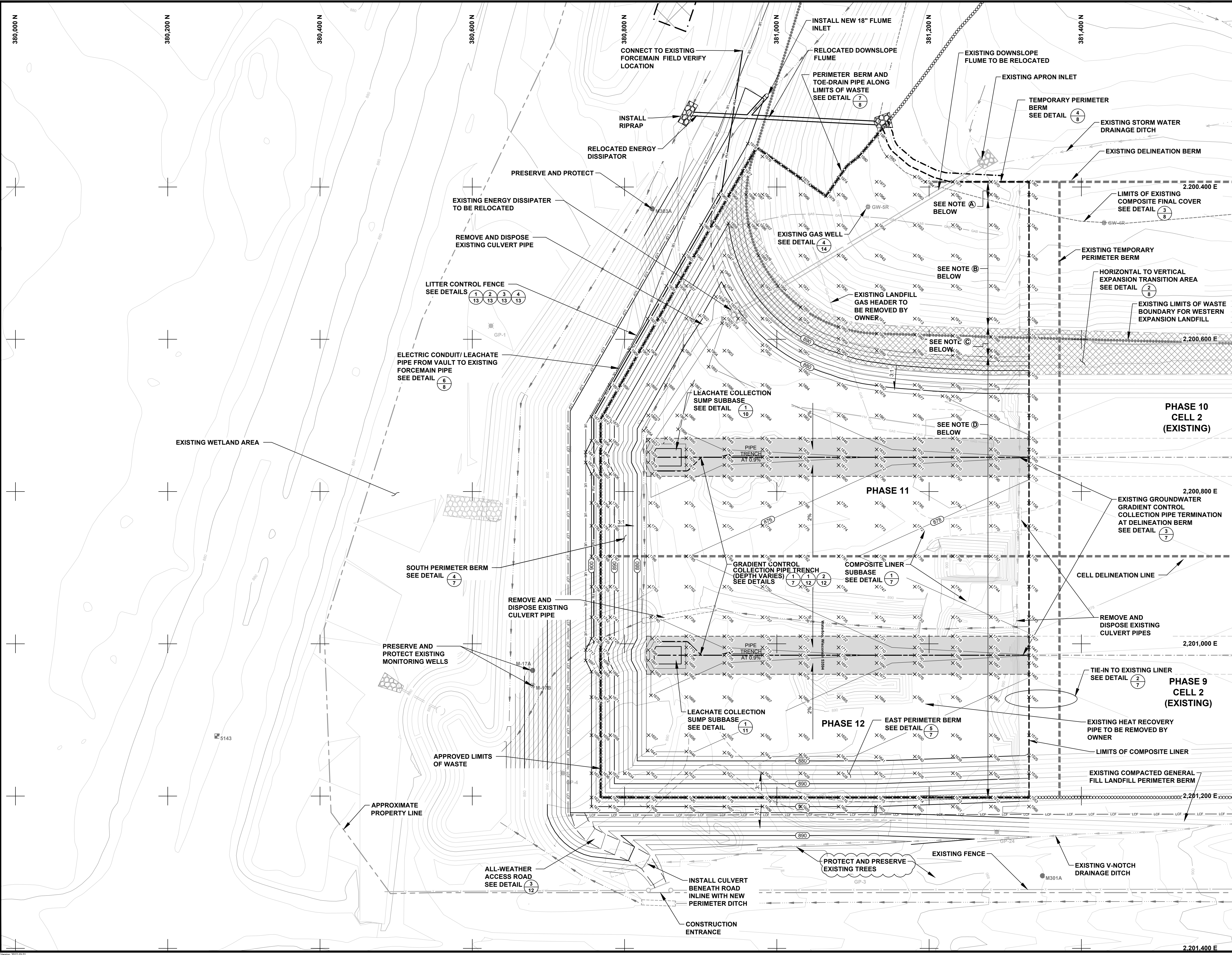
NOTES
1. TOPOGRAPHIC INFORMATION WAS DEVELOPED BY SPLICING THE FEBRUARY 2, 2016 AECOM GROUND SURVEY (PHASE 10 - CELL 2 AREA); AS-BUILT PHASE 10 - CELL 2 (SEPTEMBER 2017); DECEMBER 2, 2014 AECOM GROUND SURVEY (IN THE STOCKPILE AREA SOUTH OF FUTURE PHASE 11); AND AS-BUILT PHASE 9 - CELL 2 (JANUARY 2018); AND THE APRIL 2, 2013 KBM, INC. AERIAL SURVEY. ADDITIONAL TOPOGRAPHIC INFORMATION OUTSIDE OF APRIL 2, 2013 KBM, INC. AERIAL SURVEY WAS OBTAINED FROM: DANE COUNTY LAND INFORMATION OFFICE MADISON, WI., TWO-FOOT CONTOURS DATED 2009.
2. HORIZONTAL DATUM IS BASED ON NAD27 WISCONSIN STATE PLANE COORDINATE SYSTEM.
3. VERTICAL DATUM IS REFERENCED TO USGS MEAN SEA LEVEL (M.S.L.) DATUM. THE TOPOGRAPHIC CONTOUR INTERVAL IS TWO FEET.

HORIZONTAL AND VERTICAL CONTROL POINT LOCATIONS				
NAME	NORTHING STATE PLANE (FEET)	EASTING STATE PLANE (FEET)	ELEVATION (FT-MSL)	DESCRIPTION
203	381,404.98	2,198,495.01	875.020	CP 0.75 REBAR SOUTH SIDE OF PAVED ENTRY ROAD
5141	381,812.47	2,201,335.74	906.000	CP 100D WEST SIDE CTH AB WEST OF MAILBOX 3620
5143	380,264.80	2,201,121.12	883.000	CP MEDIAN SO OF INLET NORTH SIDE MEDIAN 12/18 WEST OF CTH AB
5146	383,160.34	2,201,292.29	870.930	CP 100D SW OF NE CONST FENCE CORNER
6001	382,847.88	2,200,698.84	889.452	CP SPIKE IN GRAVEL DRIVE SW OF FO WEST END OF TALL FENCING NORTH OF P10 CELL 1
6002	382,615.37	2,200,252.21	880.659	CP SPIKE SOUTH SIDE OF ACCESS ROAD WEST OF P10 CELL 1
6003	382,602.35	2,200,447.27	879.687	BM CUT SQ. SW CORNER CONCRETE SLAB WEST OF BERM P10 SOUTH OF ACCESS ROAD

NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.				
NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.				
NO.	BY	DATE	REVISION	APP'D.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASES 11/12 LINER CONSTRUCTION DANE COUNTY, WISCONSIN				
TITLE: STANDARD LEGEND AND GENERAL NOTES				
DRAWN BY:	G. ASHWORTH	PROJ. NO.:	323699.0000.0000	
CHECKED BY:	G. SHEREDA			
APPROVED BY:	---	SHEET 2 OF 15		
DATE:	OCTOBER 2019			
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600		
FILE NO.:	323699.0000-LG.dwg			

2/24/19 ... USER: T:\Users\... ATTACHED XREFS: ... ATTACHED IMAGES: ... PLOT DATE: October 08, 2019 - 11:34AM ... LAYOUT: SHEET 2
 DRAWING NAME: J:\Dane County LF\323699 - P11-P12 Liner Const\00001.323699.0000-LG.dwg

2034 -- USER: T:\fileshare -- ATTACHED XREFS: Bmr; Wells Gas 100s; Wells Leach 100s; Grid 60 Scale; P9 - C2 site prep; P11 - P12 Subbase Coordinates; P11 - P12 Site prep; P10C2 - Aa-Bull SG; P9 - C2 SG; 2015 New Condensate Pipe -- ATTACHED IMAGES:
 DRAWING NAME: J:\Dane County LF323699 - P11-P12 Liner Const\00001323699-0000-SG.dwg -- PLOT DATE: October 08, 2019 - 11:37AM -- LAYOUT: SUBBASE GRADES - GRADIENT CONTROL SYSTEM



NOTES

1. REFER TO SHEET 2 OF THIS PLAN SET FOR LEGEND SYMBOLS AND LIST OF NOTES.
2. FULL TONE CONTOURS WITHIN THE LIMITS OF PHASE 11/12 COMPOSITE LINER CONSTRUCTION REPRESENT THE BOTTOM OF THE COMPACTED CLAY LINER (SUBBASE GRADES). REFER TO DETAIL 1 ON PLAN SHEET 7 FOR LEACHATE COLLECTION LINE EXCAVATION.
3. FULL TONE CONTOURS OUTSIDE THE LIMITS OF PHASE 11/12 COMPOSITE LINER CONSTRUCTION REPRESENT FINISHED GRADING (e.g. TOP OF TOPSOIL, TOP OF GRAVEL ROAD, ETC.).
4. REFER TO TABLES 1 & 2 FOR CONSTRUCTION COORDINATE LOCATIONS AND ELEVATIONS.
5. TIE-IN TO EXISTING LINER IN PHASE 10 - CELL 2 BASED ON TRC ENVIRONMENTAL CORP. PHASE 10 - CELL 2 LINER CONSTRUCTION DOCUMENTATION PLANS, SEPTEMBER 2017. TIE-IN TO EXISTING LINER IN PHASE 9 - CELL 2 BASED ON TRC ENVIRONMENTAL CORP. PHASE 9 - CELL 2 LINER CONSTRUCTION DOCUMENTATION PLANS, AUGUST 2018. CONTRACTOR TO FIELD VERIFY EXISTING LINER LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTING LINER SPLICE.
6. NO TREES TO BE REMOVED OUTSIDE LIMITS OF CONSTRUCTION LINE.
7. INSTALL WISDOT CLASS 1 TYPE A EROSION CONTROL AND VEGETATION MAT (ECRM) ON ALL 3:1 SLOPES AND STEEPER EXCEPT IN CLAY LINER AREA. REFER TO PLAN SHEET 16.

NOTES:

- (A) LOCATION OF EXISTING FINAL COVER OVER VERTICAL EXPANSION THAT INCLUDES AN EXISTING 40 MIL GEOMEMBRANE.
- (B) LOCATION OF EXISTING FINAL COVER OVER VERTICAL EXPANSION THAT HAS NO EXISTING GEOMEMBRANE.
- (C) HORIZONTAL TO VERTICAL EXPANSION TRANSITION AREA.
- (D) LOCATION OF 4" THICK COMPOSITE LINER OVER HORIZONTAL EXPANSION AREA.

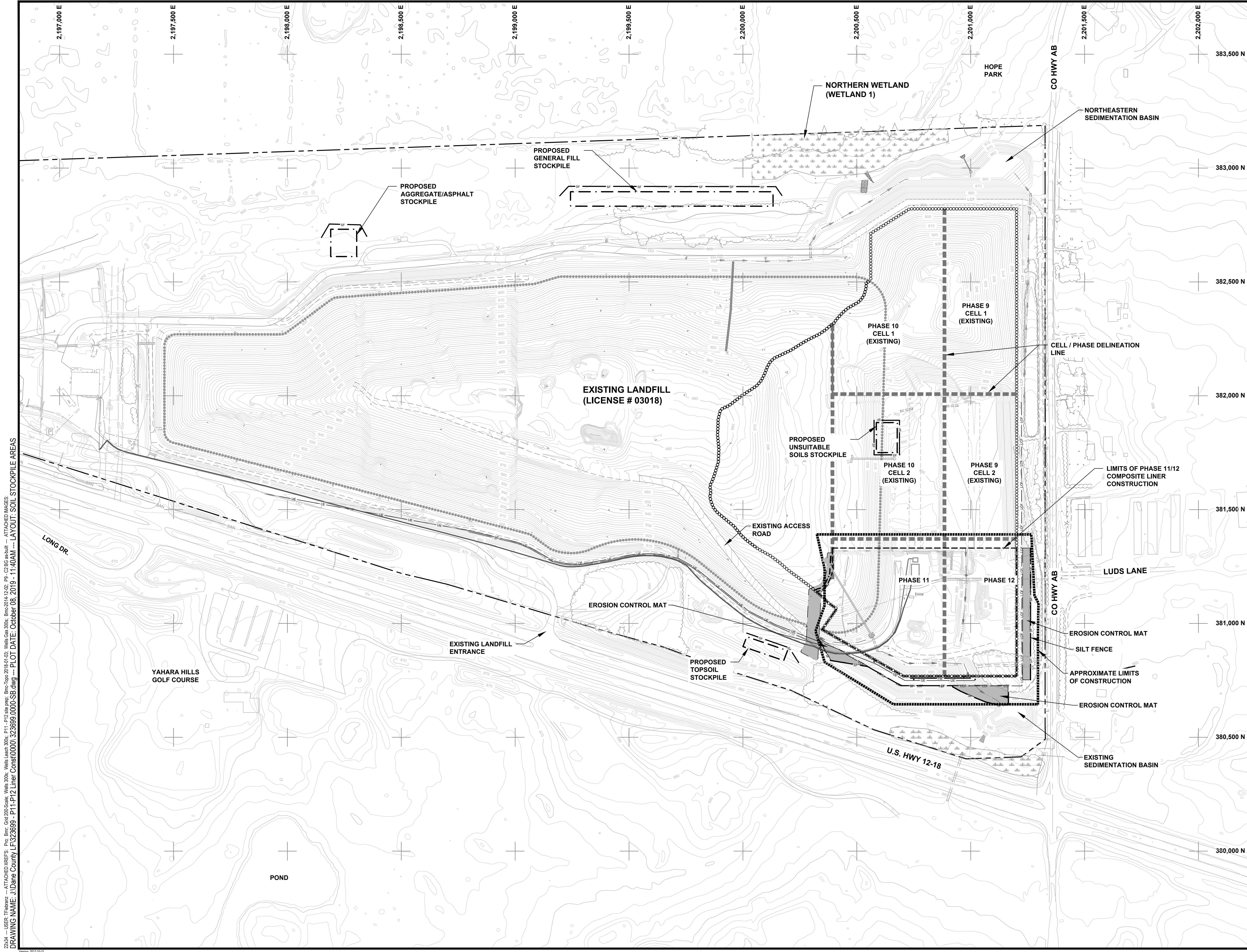
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NO.	BY	DATE	REVISION	APP'D.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL				
PHASES 11/12 LINER CONSTRUCTION				
DANE COUNTY, WISCONSIN				
TITLE: SUBBASE GRADES - GRADIENT CONTROL SYSTEM				
DRAWN BY:	G. ASHWORTH	PROJ. NO.:	323699.0000.0000	
CHECKED BY:	G. SHEREDA			
APPROVED BY:	---	SHEET 4 OF 15		
DATE:	OCTOBER 2019			

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FILE NO.: 323699.0000-SG.dwg



LEGEND

[Cross-hatched box] APPROXIMATE LIMITS OF STOCKPILE AREA (GENERAL FILL, TOPSOIL, AND SELECT CLAY FILL)

[Dashed line] CELL / PHASE DELINEATION LINE

[Dotted line] LIMITS OF PHASE 11/12 COMPOSITE LINER CONSTRUCTION

[Solid line] APPROXIMATE LIMITS OF CONSTRUCTION

[North arrow]

[Scale bar: 0, 200, 400, 600, 800]

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NO.	BY	DATE	REVISION	APPD.

PROJECT: **DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASES 11/12 LINER CONSTRUCTION DANE COUNTY, WISCONSIN**

TITLE: **SOIL STOCKPILE AREAS**

DRAWN BY:	G. ASHWORTH	PROJ. NO.:	323699.0000.0000
CHECKED BY:	G. SHEREDA	SHEET 6 OF 15	
APPROVED BY:	---		
DATE:	OCTOBER 2019		

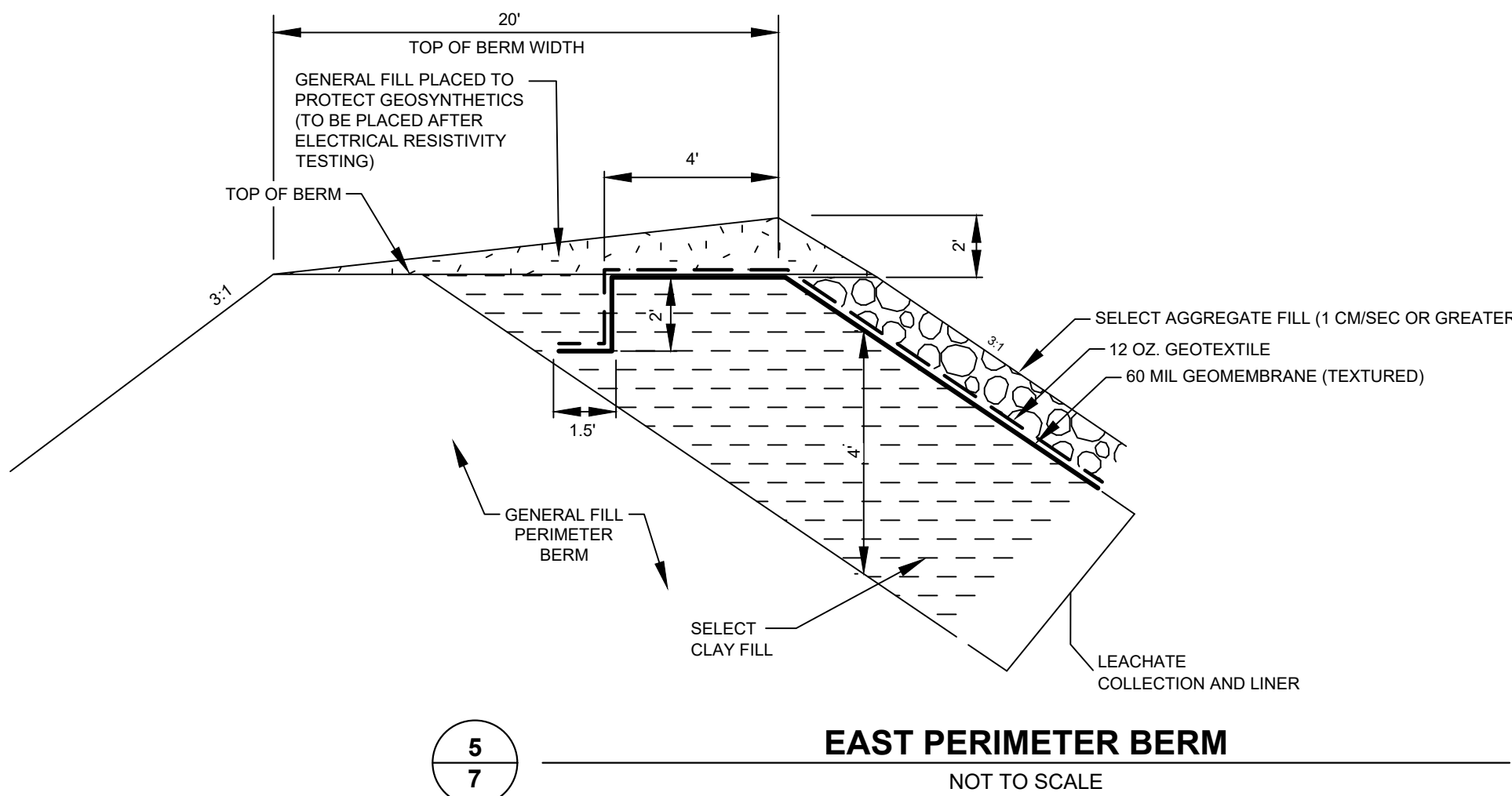
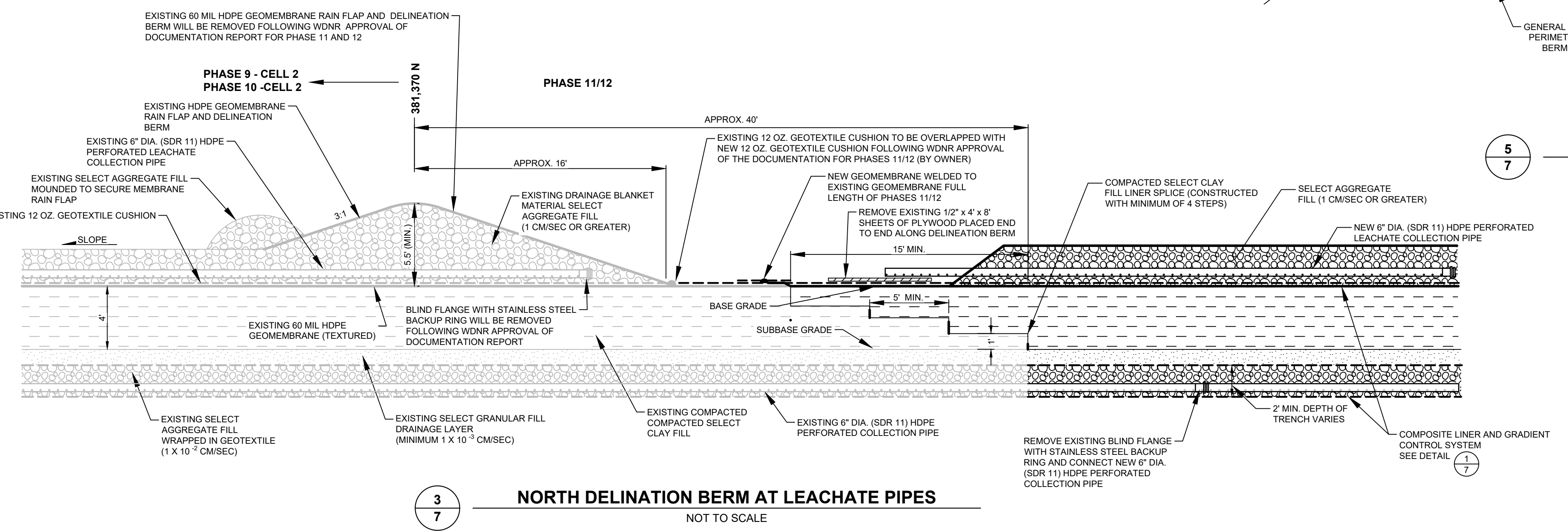
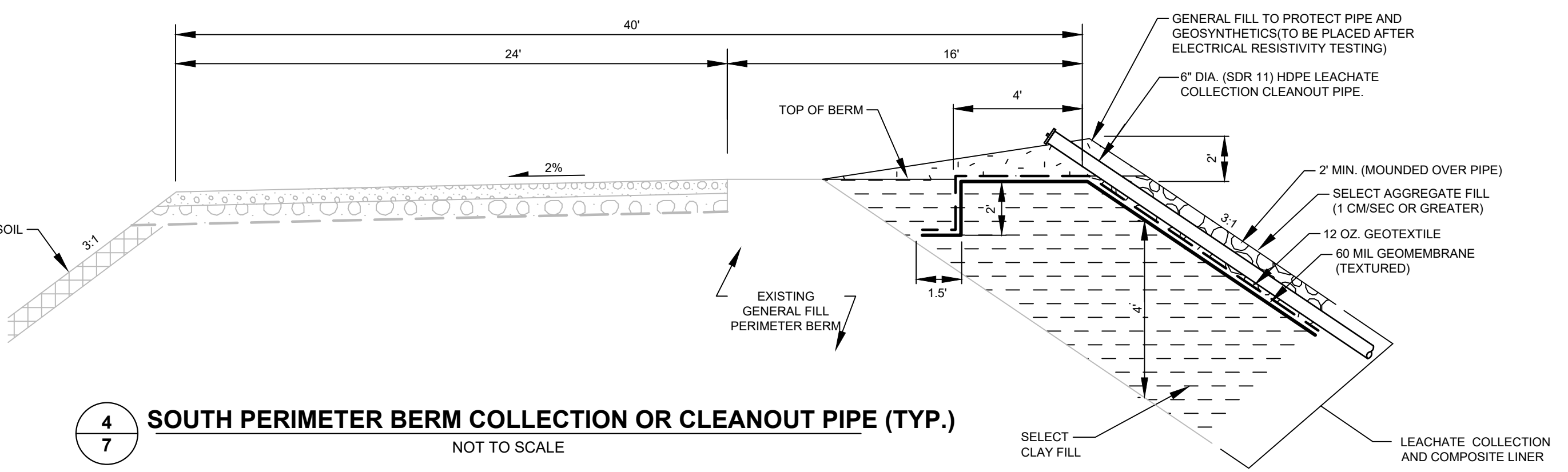
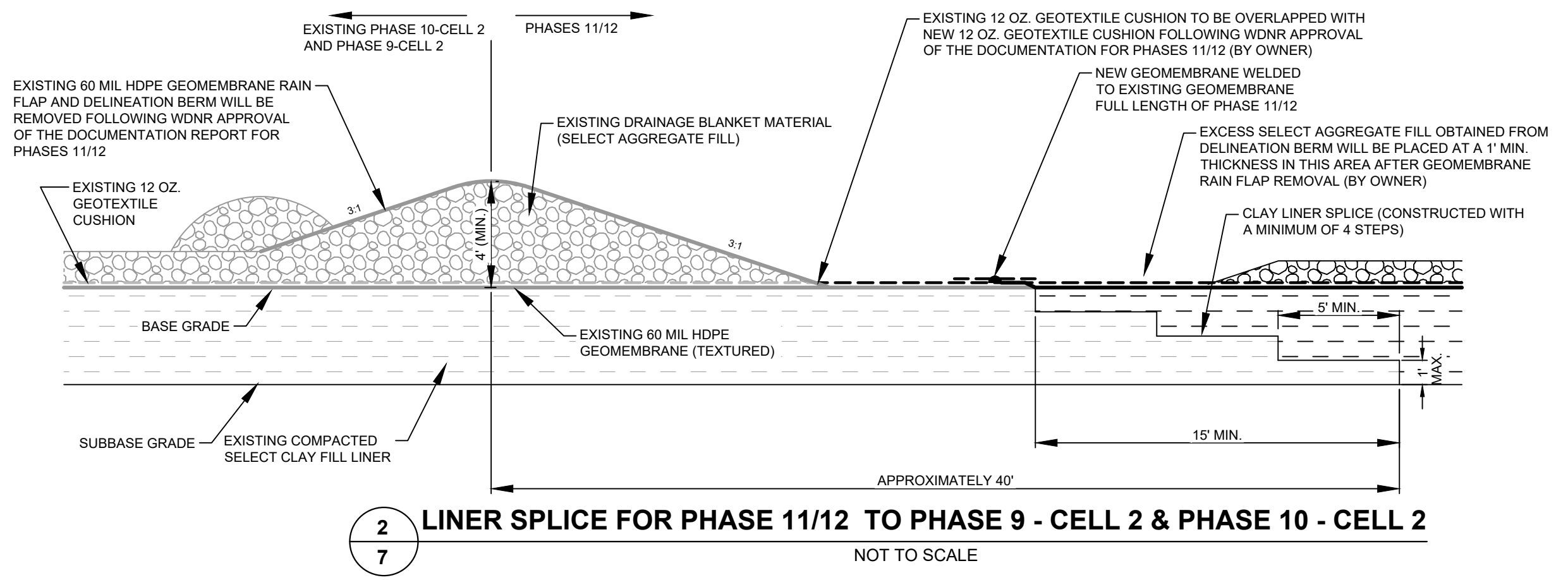
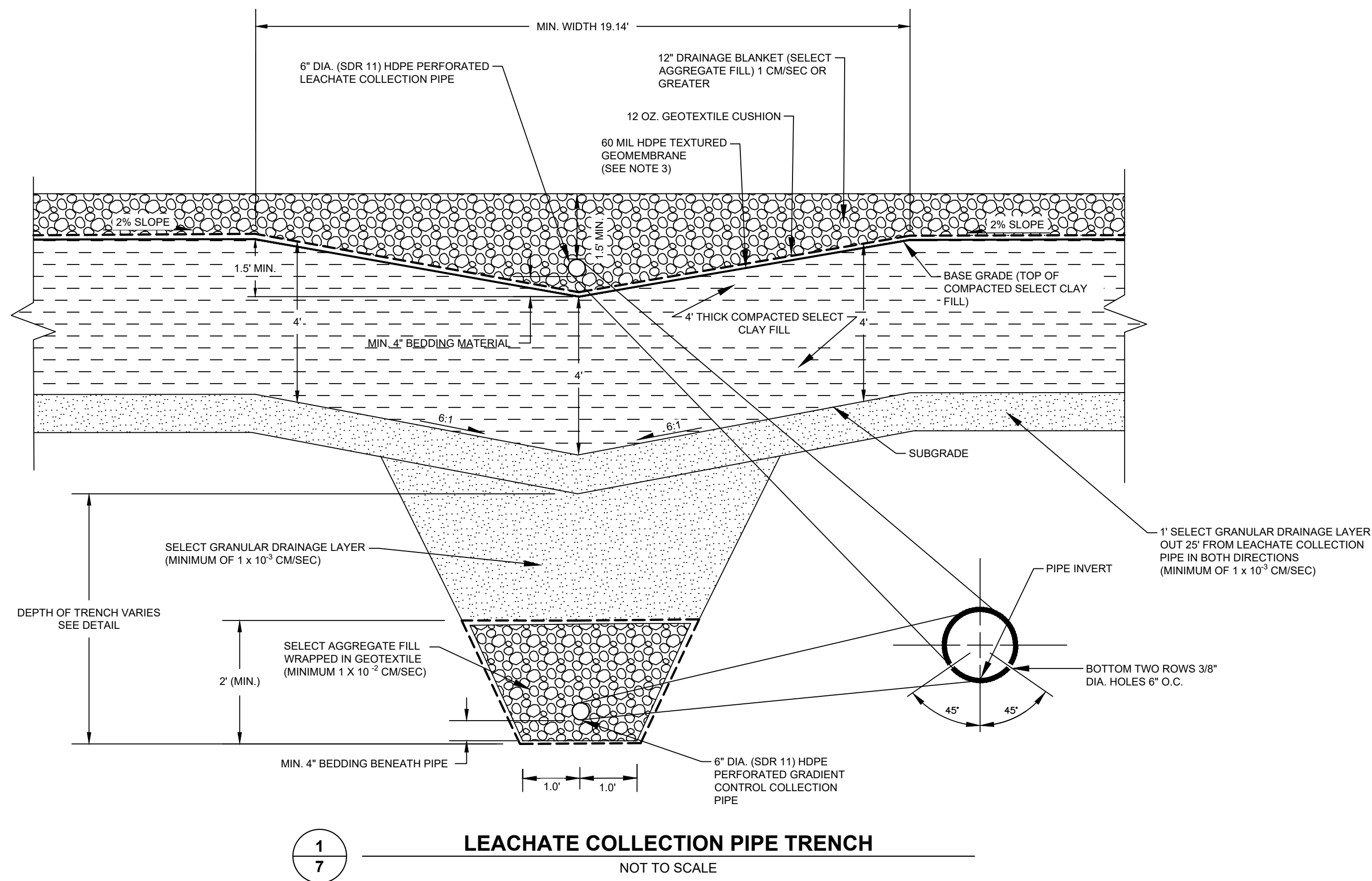
TRC

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FILE NO.: 323699.0000.SB.dwg

22/34 -- USER: T:\fileshare -- ATTACHED XREFS: Pro: Bim; Grid 200 Scale: Wks: 300; Wks Leach 300; Wks Topo 2018-01-03; Wks Gas 300; Bmc 2014-12-02; P1 - P12 Site prep; Bmc 2014-12-02; P9 - C2 BIG sub; -- ATTACHED IMAGES: DRAWING NAME: J:\Dane County LF323699 - P11-P12 Liner Const\00001\323699.0000-SB.dwg -- PLOT DATE: October 08, 2019 - 11:40AM -- LAYOUT: SOIL STOCKPILE AREAS

2024 -- USER: T:\dane -- ATTACHED XREFS: D:\dane -- P11 - P12 Cross Section -- ATTACHED IMAGES: -- PLOT DATE: October 08, 2019 - 11:41AM -- LAYOUT: 7 DETAILS - LINER AND LEACHATE COLLECTION -- DRAWING NAME: J:\Dane County LF323699 - P11-P12 Liner Const\00001323699-0000-DT.dwg --



LINE AND SHADING LEGEND

60 MIL HDPE GEOMEMBRANE	GEOCOMPOSITE
GEOTEXTILE	
TOPSOIL	NATIVE SOIL
GENERAL FILL	CONCRETE
SELECT GRANULAR FILL	RIPRAP
BARRIER LAYER FINE GRADED SOIL	BITUMINOUS PAVING
SELECT AGGREGATE FILL	SELECT FOUNDRY BYPRODUCT
COMPACTED SELECT CLAY FILL	

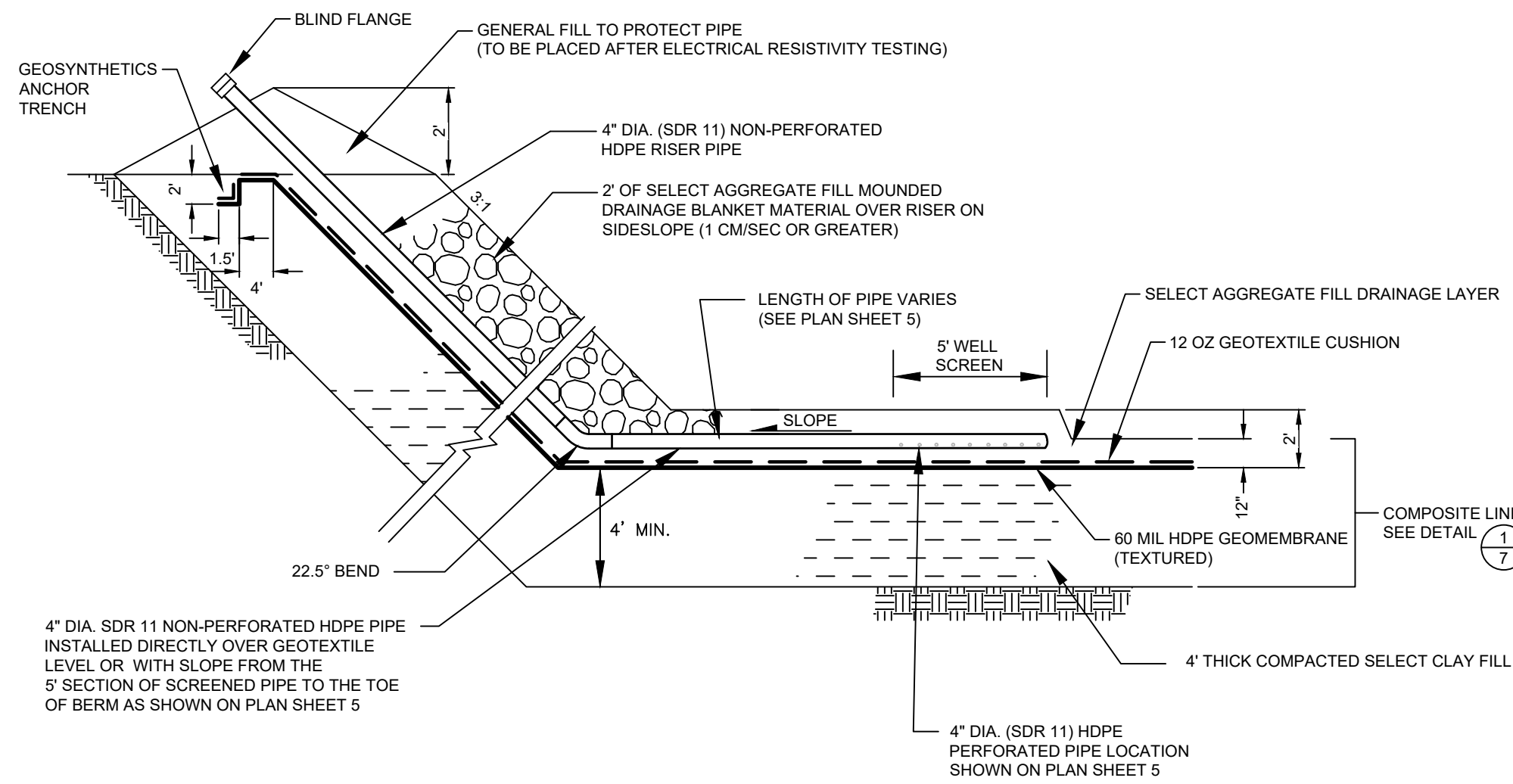
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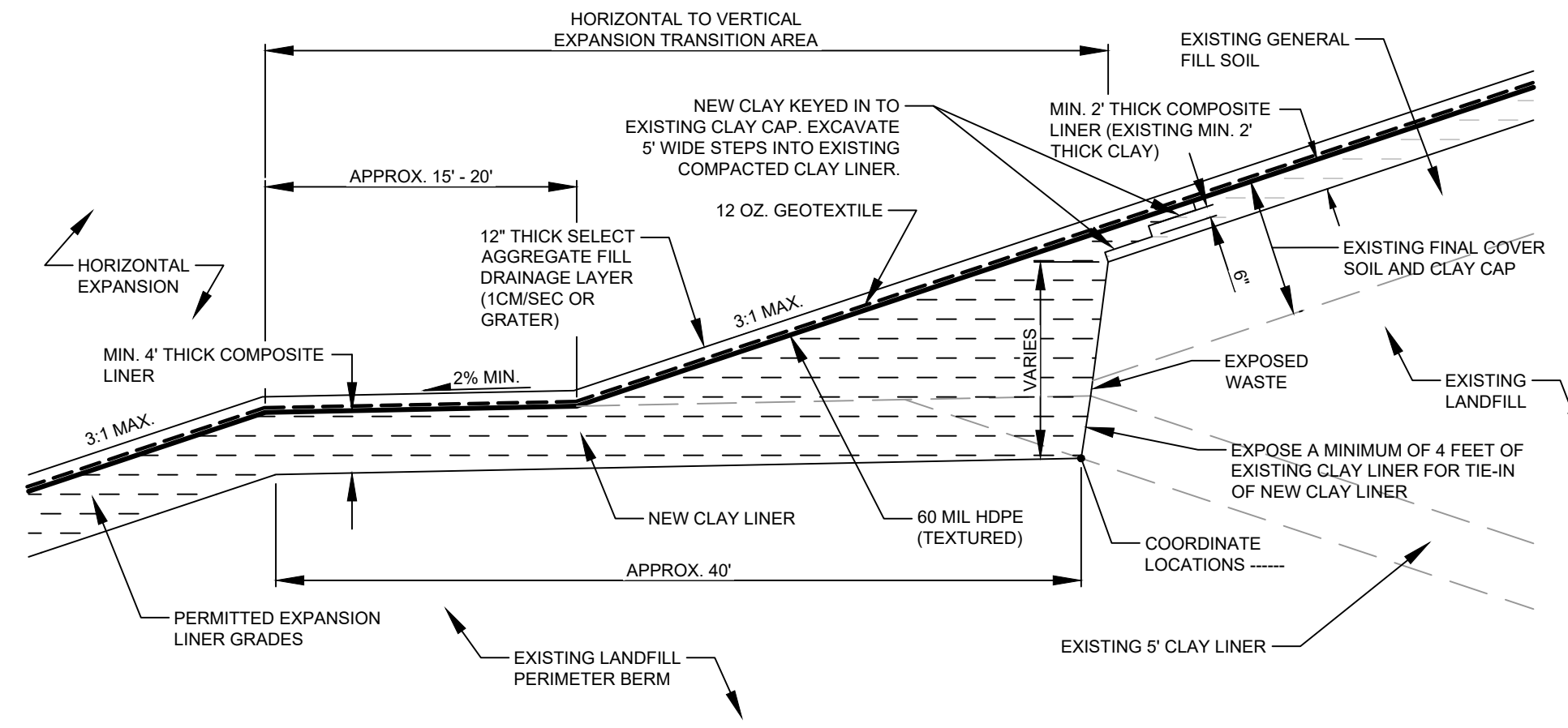
- NOTES:**
- SCREENED INFORMATION REPRESENTS EXISTING FEATURES. BOLD INFORMATION REPRESENTS NEW FEATURES CONSTRUCTION FOR PHASE 11/12.
 - NORTH TO SOUTH GEOMEMBRANE SEAMS CAN BE IN PIPE TRENCH BUT NOT AT BOTTOM OF TRENCH OR AT JUNCTION OF 6:1 AND 2% LINER SLOPES.

NO.	BY	DATE	REVISION	APP'D.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL				
PHASES 11/12				
LINER CONSTRUCTION				
DANE COUNTY, WISCONSIN				
TITLE: DETAILS - LINER AND LEACHATE COLLECTION				
DRAWN BY:	G. ASHWORTH	PROJ. NO.:	323699.0000.0000	
CHECKED BY:	G. SHEREDA			
APPROVED BY:			SHEET 7 OF 15	
DATE:	OCTOBER 2019			
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600		
FILE NO.:	323699.0000-DT.dwg			

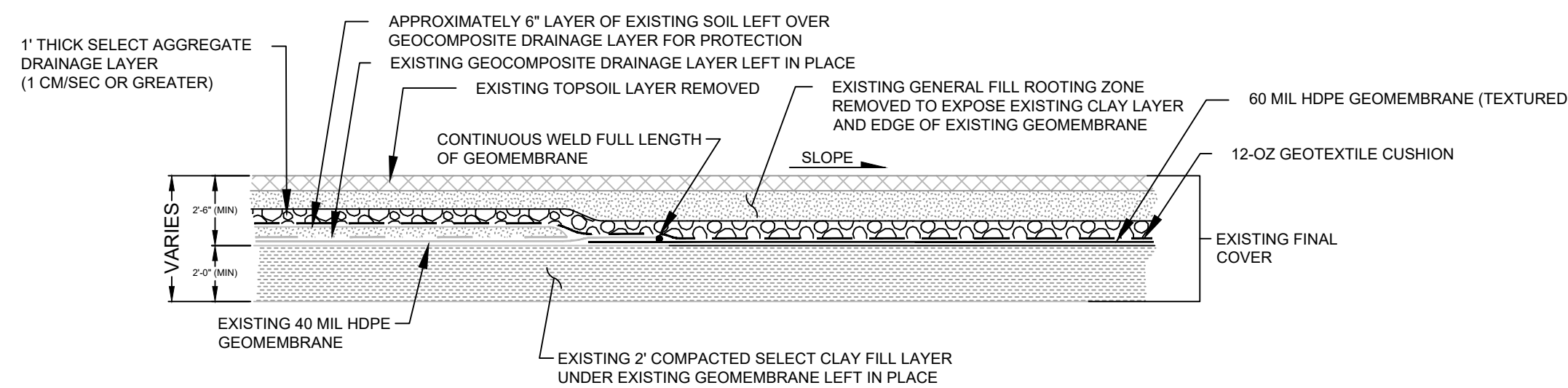
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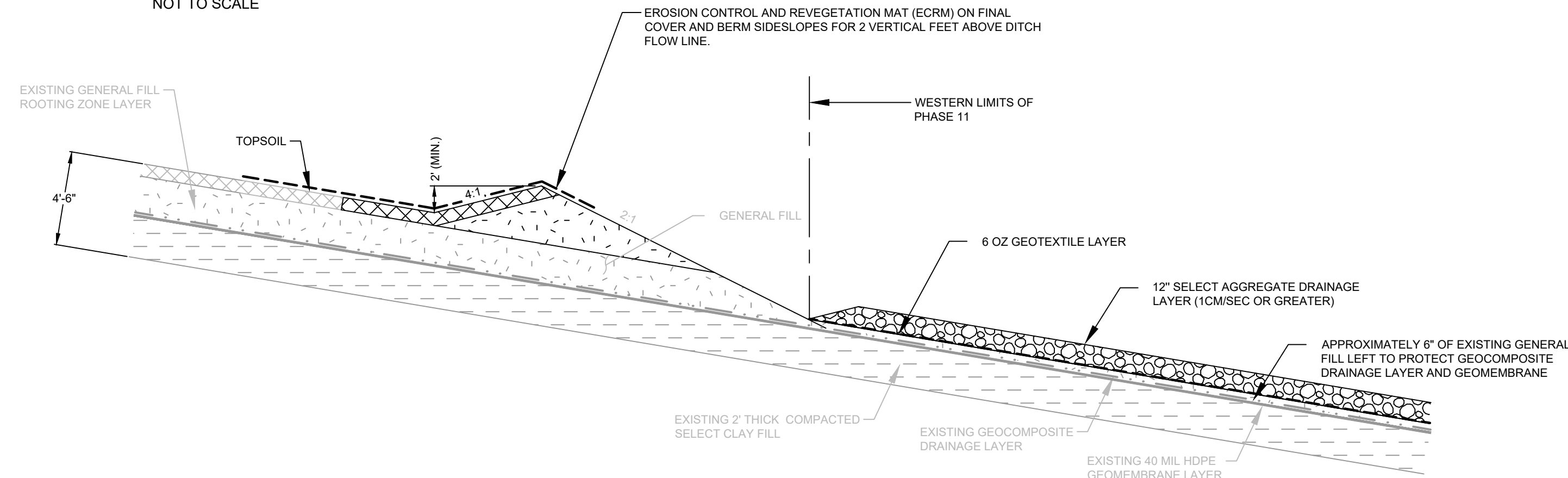
1
8 **LEACHATE HEADWELL (TYP.)**
NOT TO SCALE



2
8 **COMPOSITE LINER ANCHOR TIE-IN TO EXISTING LANDFILL**
NOT TO SCALE

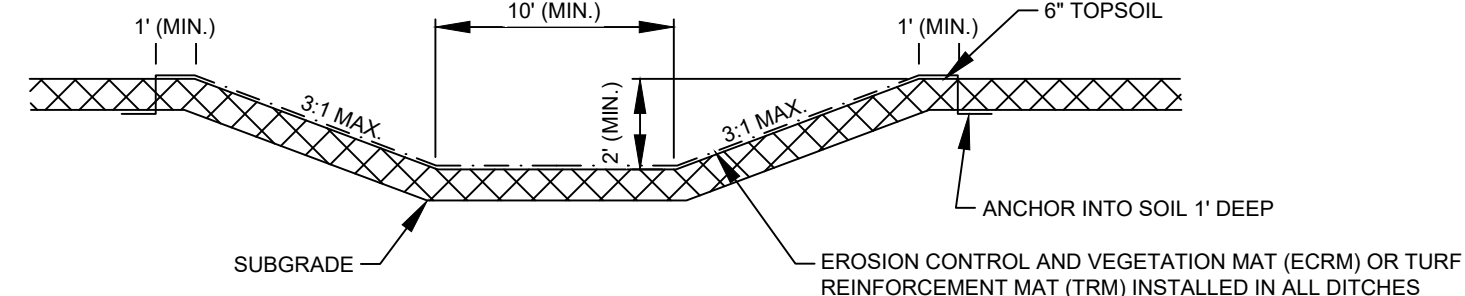


3
8 **LINER SPLICE IN EXISTING FINAL COVER AT JUNCTION OF NEW AND OLD GEOMEMBRANE**
NOT TO SCALE

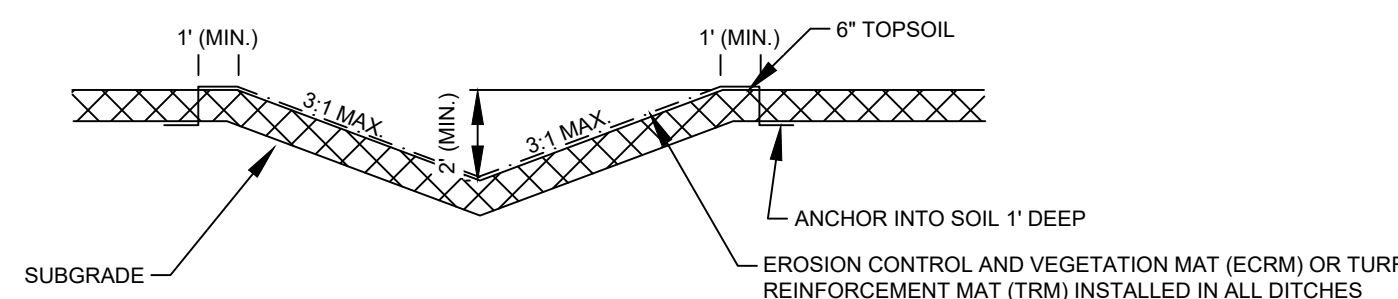


4
8 **TEMPORARY PERIMETER BERM AT WESTERN LIMITS OF PHASE 11**
NOT TO SCALE

NOTES:
1. ECRM and TRM installed a minimum of 2' in elevation on side slopes of ditches.

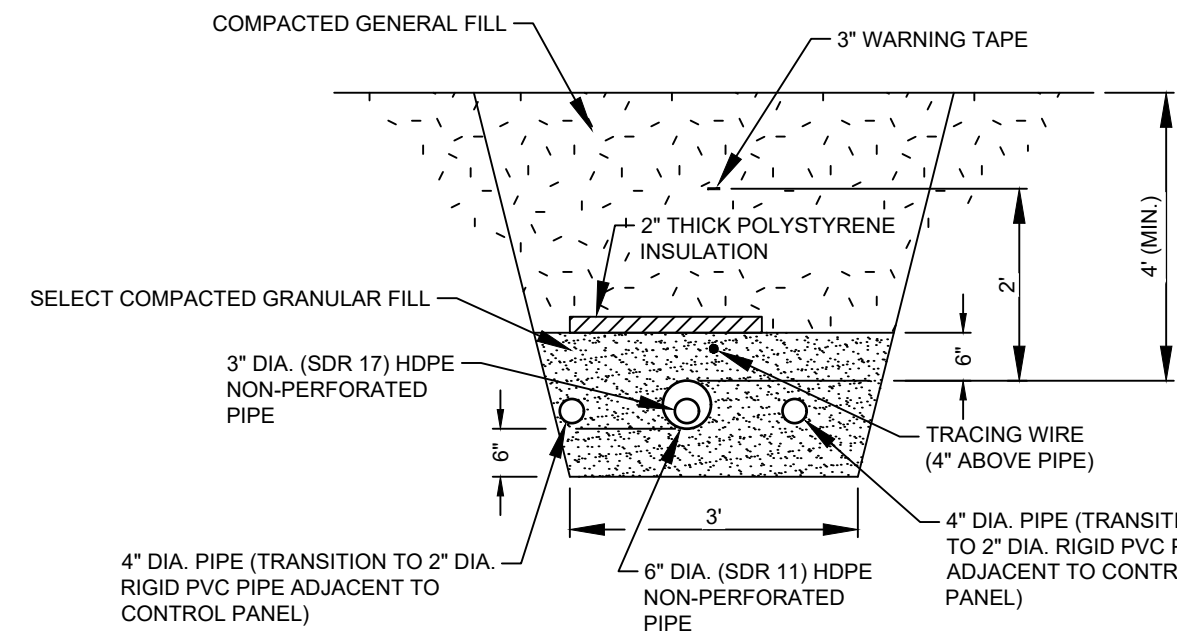


FLAT BOTTOM DRAINAGE DITCH

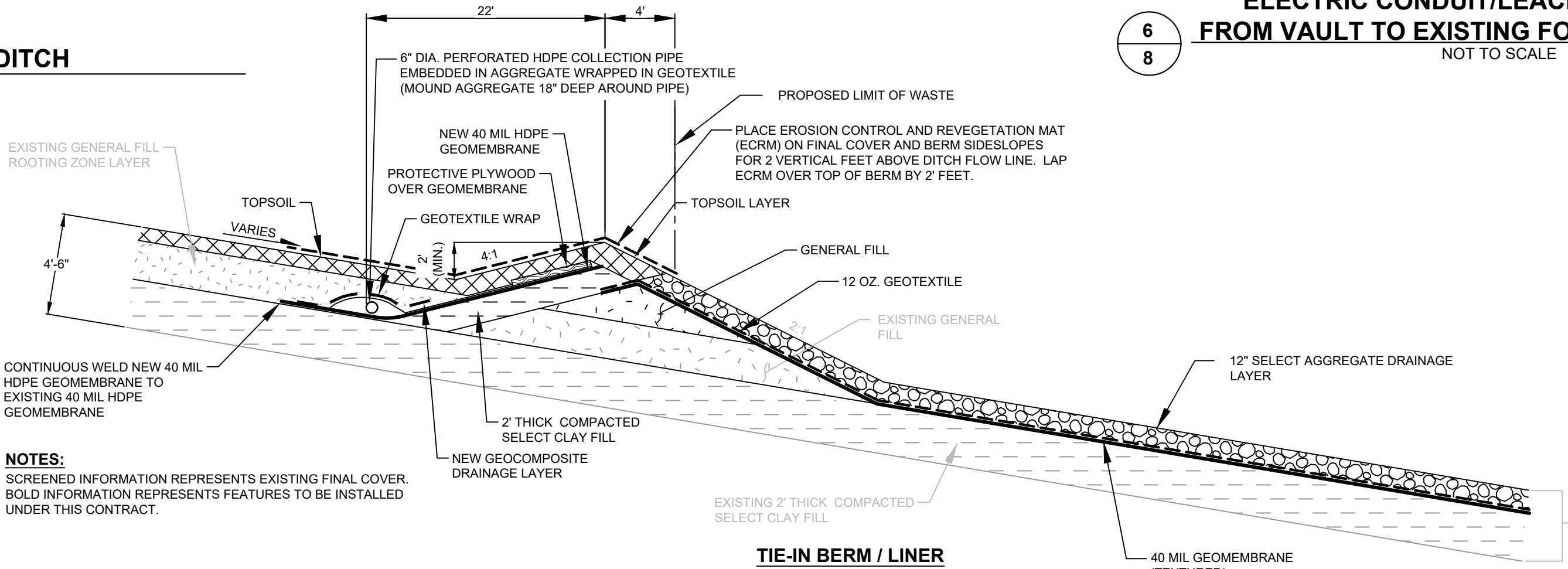


V-NOTCH DRAINAGE DITCH

5
8 **PERIMETER DRAINAGE DITCH**
NOT TO SCALE



6
8 **ELECTRIC CONDUIT/LEACHATE PIPE FROM VAULT TO EXISTING FORCEMAIN PIPE**
NOT TO SCALE



NOTES:
SCREENED INFORMATION REPRESENTS EXISTING FINAL COVER. BOLD INFORMATION REPRESENTS FEATURES TO BE INSTALLED UNDER THIS CONTRACT.

7
8 **TIE-IN PERIMETER BERM ALONG LIMITS OF WASTE LINE FOR VERTICAL EXPANSION**
NOT TO SCALE

NOTES:
1. SCREENED INFORMATION REPRESENTS EXISTING FEATURES. BOLD INFORMATION REPRESENTS NEW FEATURES CONSTRUCTION FOR PHASE 11/12.
2. NORTH TO SOUTH GEOMEMBRANE SEAMS CAN BE IN PIPE TRENCH BUT NOT AT BOTTOM OF TRENCH OR AT JUNCTION OF 6:1 AND 2% LINER SLOPES.

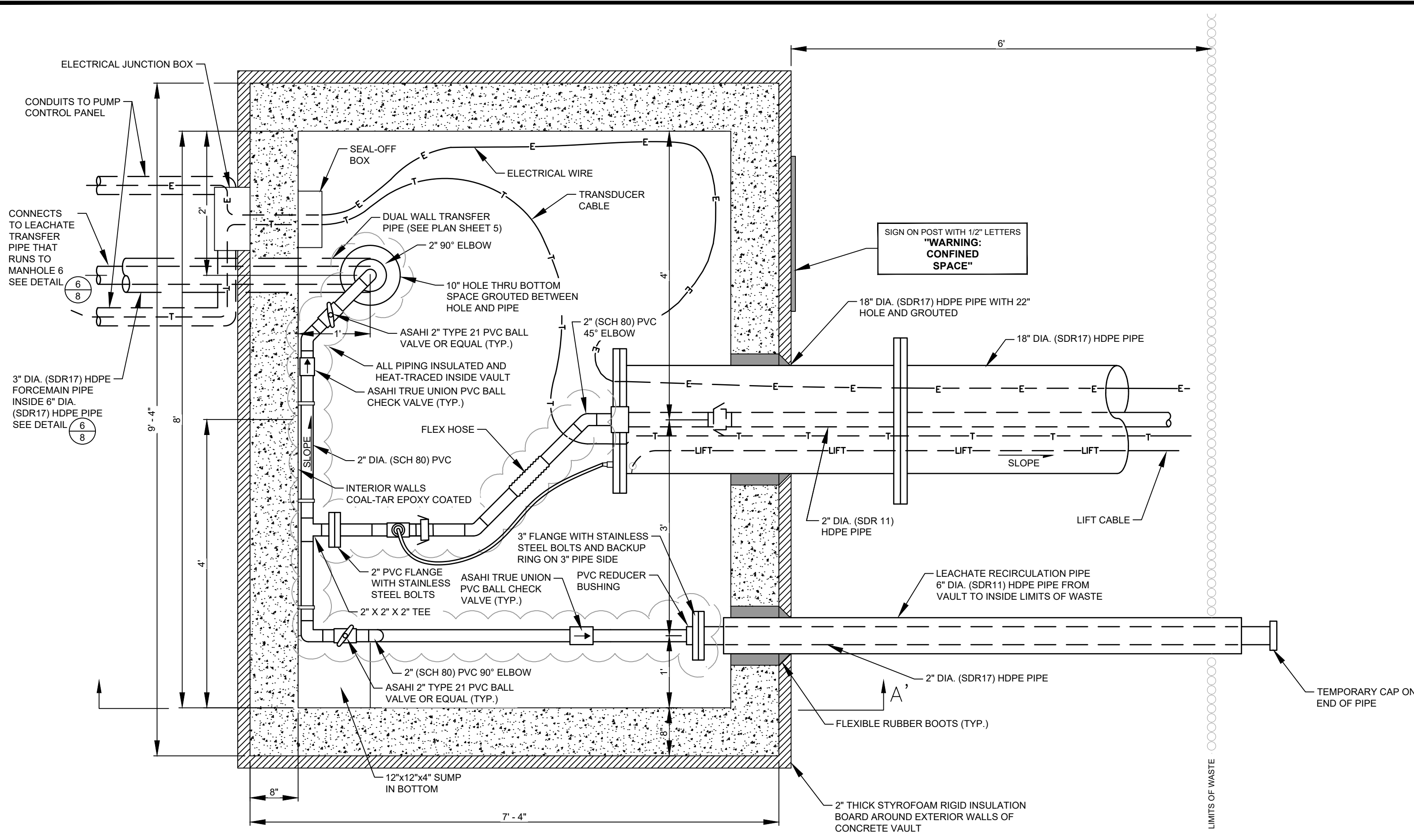
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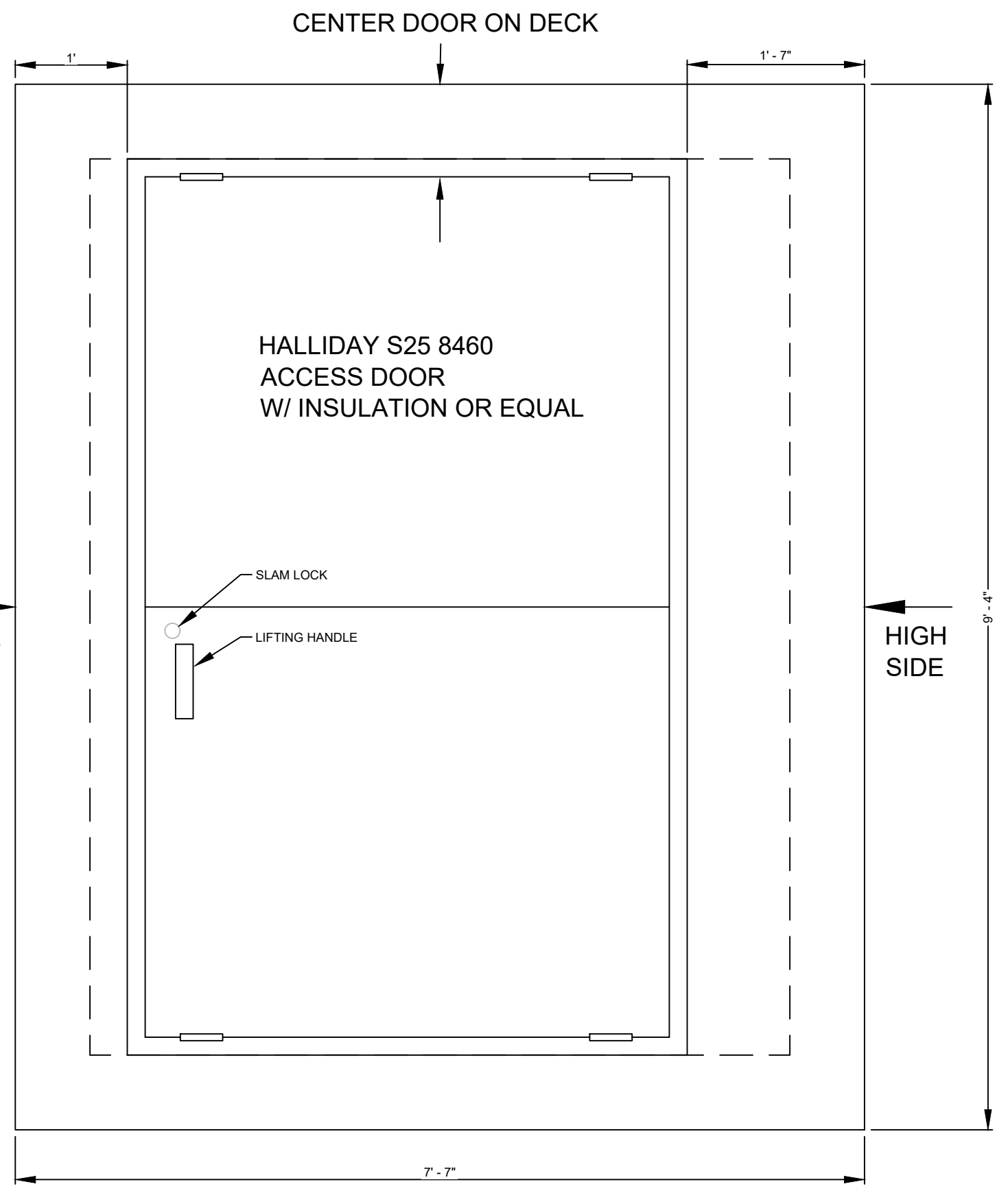
LINE AND SHADING LEGEND	
	60 MIL HDPE GEOMEMBRANE
	GEOTEXTILE
	TOPSOIL
	GENERAL FILL
	SELECT GRANULAR FILL
	BARRIER LAYER FINE GRADED SOIL
	SELECT AGGREGATE FILL
	COMPACTED SELECT CLAY FILL
	NATIVE SOIL
	CONCRETE
	RIPRAP
	BITUMINOUS PAVING
	SELECT FOUNDRY BYPRODUCT

NO.	BY	DATE	REVISION	APP'D.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASES 11/12 LINER CONSTRUCTION DANE COUNTY, WISCONSIN				
TITLE: DETAILS - LINER AND LEACHATE COLLECTION				
DRAWN BY: G. ASHWORTH		PROJ. NO.: 323699.0000.0000		
CHECKED BY: G. SHEREDA		DATE: OCTOBER 2019		
APPROVED BY: ---		SHEET 8 OF 15		
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600		
FILE NO.:		323699.0000-DT.dwg		

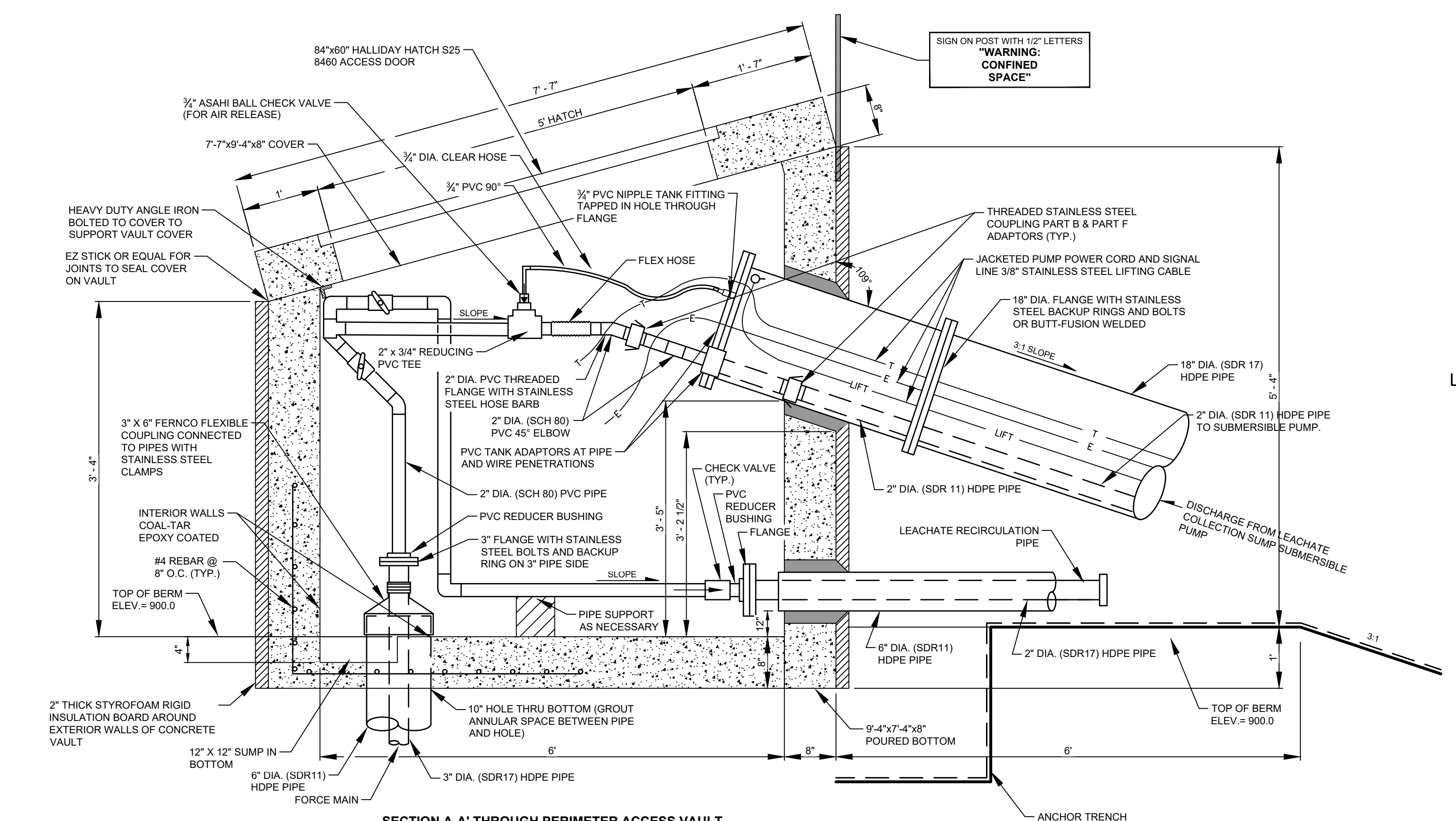
2304 - USER: T:\dane\j... ATTACHED XREFS: D:\bills\Views\P11-P12 Cross Section - ATTACHED IMAGES: ... DRAWING NAME: J:\Dane County LF323699 - P11-P12 Liner Const\00001\323699_0000-DT.dwg --- PLOT DATE: October 08, 2019 - 11:42AM --- LAYOUT: 9 DETAILS - LEACHATE VAULTS



8' X 6' PRECAST CONCRETE VAULT
TOP VIEW



VAULT ACCESS DOOR



SECTION A-A THROUGH PERIMETER ACCESS VAULT

PERIMETER ACCESS VAULT
(NOT TO SCALE)

LINE AND SHADING LEGEND				
60 MIL. HDPE GEOMEMBRANE	GEOTEXTILE	TOPSOIL	NATIVE SOIL	CONCRETE
SELECT GRANULAR FILL	BARRIER LAYER FINE GRADED SOIL	SELECT AGGREGATE FILL	BITUMINOUS PAVING	SELECT FOUNDRY BYPRODUCT
COMPACTED SELECT CLAY FILL				

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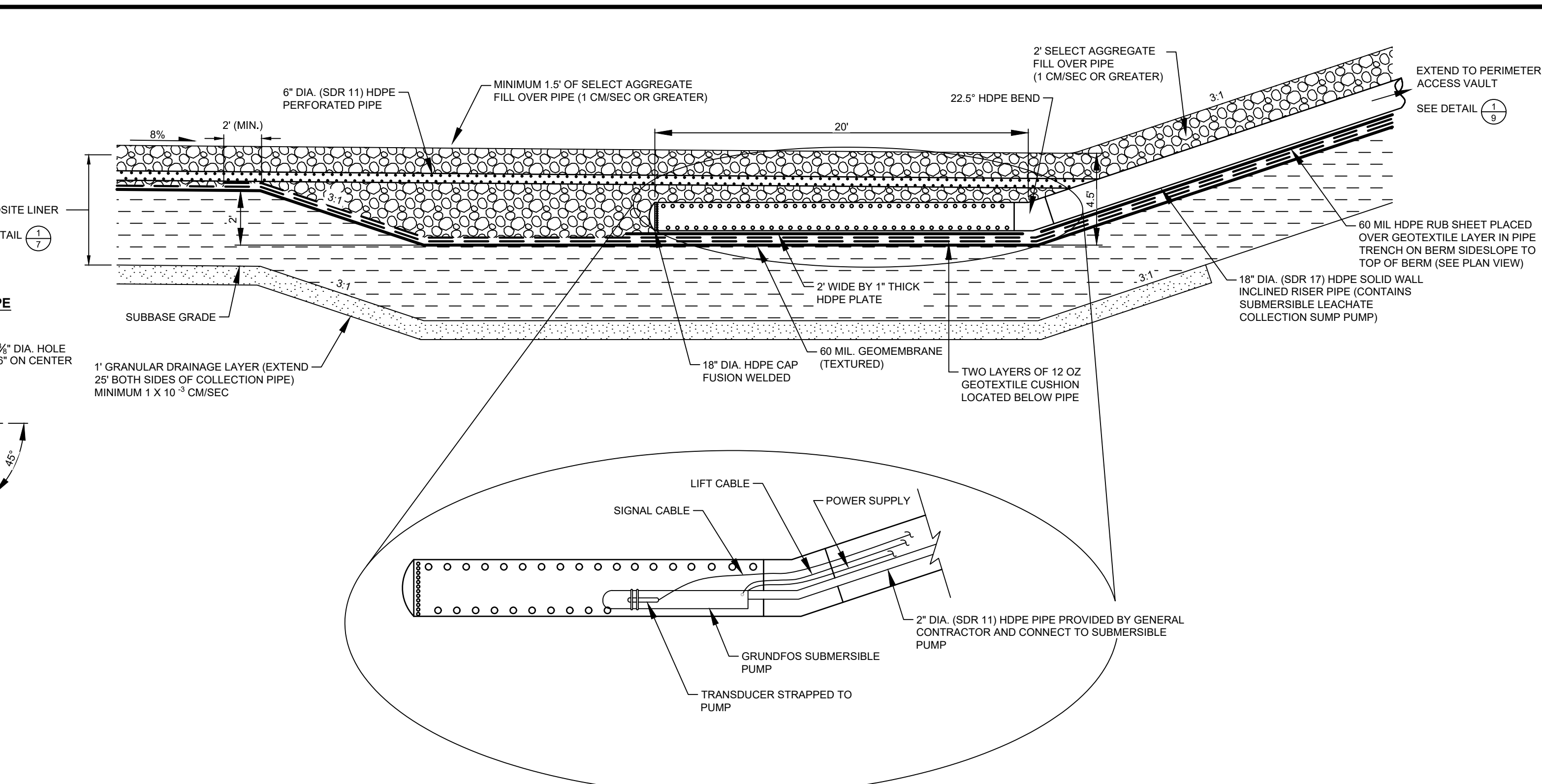
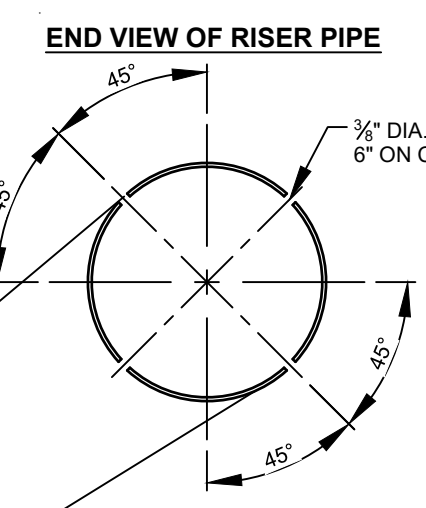
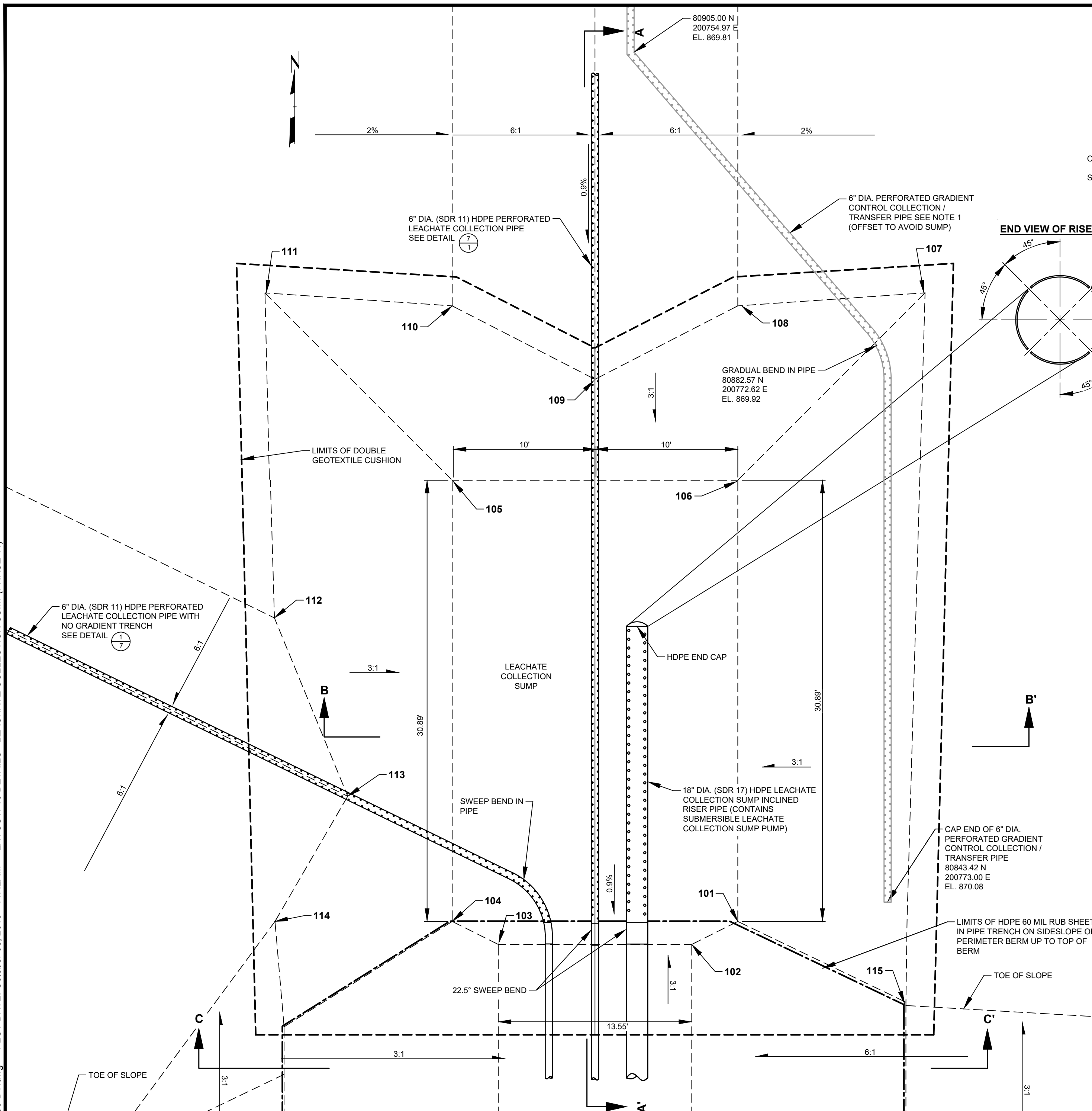
TITLE: **DETAILS - LEACHATE VAULTS**

DRAWN BY: G. ASHWORTH	PROJ. NO.: 323699.0000.0000
CHECKED BY: G. SHEREDA	
APPROVED BY: ---	SHEET 9 OF 15
DATE: OCTOBER 2019	

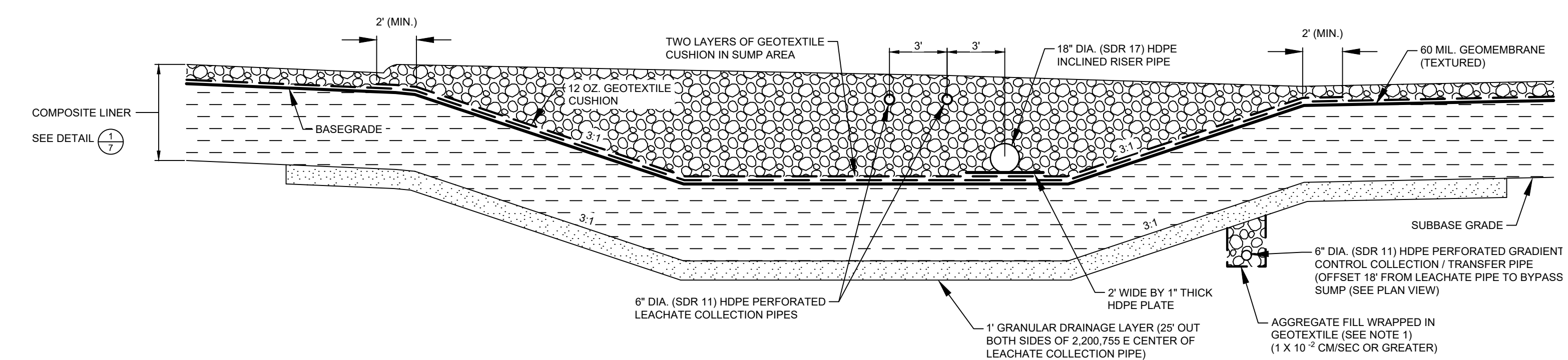
FILE NO.: 323699.0000-DT.dwg

708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600

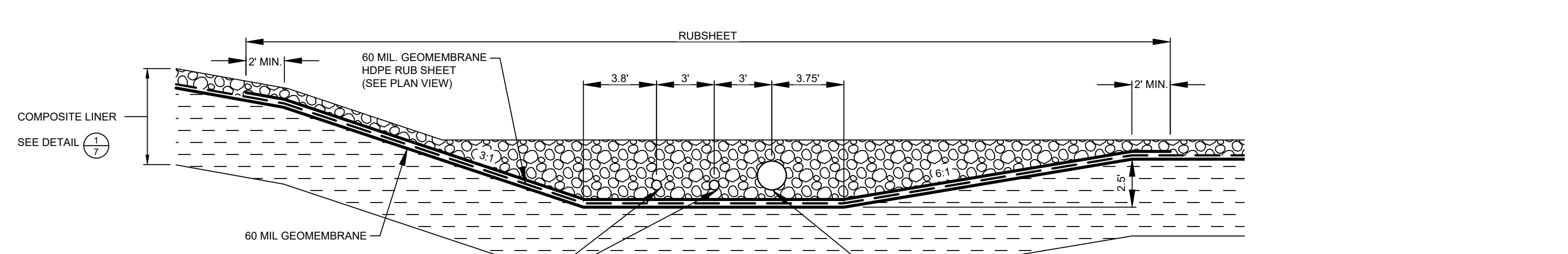
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SECTION A-A' THROUGH LEACHATE COLLECTION SUMP
SCALE: 1"=5'



SECTION B-B' THROUGH LEACHATE COLLECTION SUMP
SCALE: 1"=5'



SECTION C-C' THROUGH LEACHATE COLLECTION SUMP
SCALE: 1"=5'

PHASE 11 SUMP COORDINATES

Point No.	Northing	Easting	Design Elevation	As-built
101	380,842.1	2,200,765.0	869.50	
102	380,840.5	2,200,761.8	869.50	
103	380,840.5	2,200,748.2	869.50	
104	380,842.1	2,200,745.0	869.50	
105	380,873.0	2,200,745.0	869.50	
106	380,873.0	2,200,765.0	869.50	
107	380,886.1	2,200,778.1	873.87	
108	380,885.2	2,200,765.0	873.57	
109	380,880.0	2,200,755.0	871.85	
110	380,885.2	2,200,745.0	873.57	
111	380,886.1	2,200,731.9	873.87	
112	380,863.3	2,200,732.5	873.65	
113	380,850.8	2,200,737.7	871.94	
114	380,842.1	2,200,732.6	873.64	
115	380,836.4	2,200,776.8	873.40	

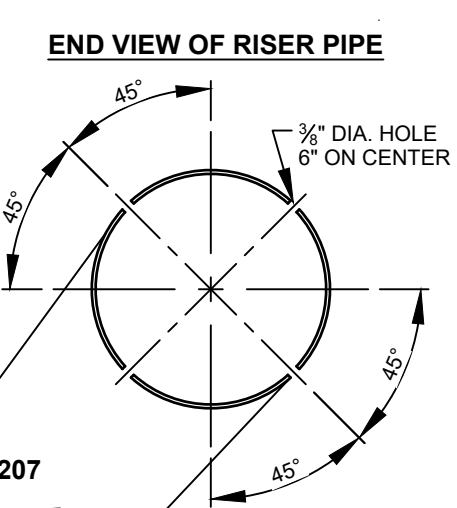
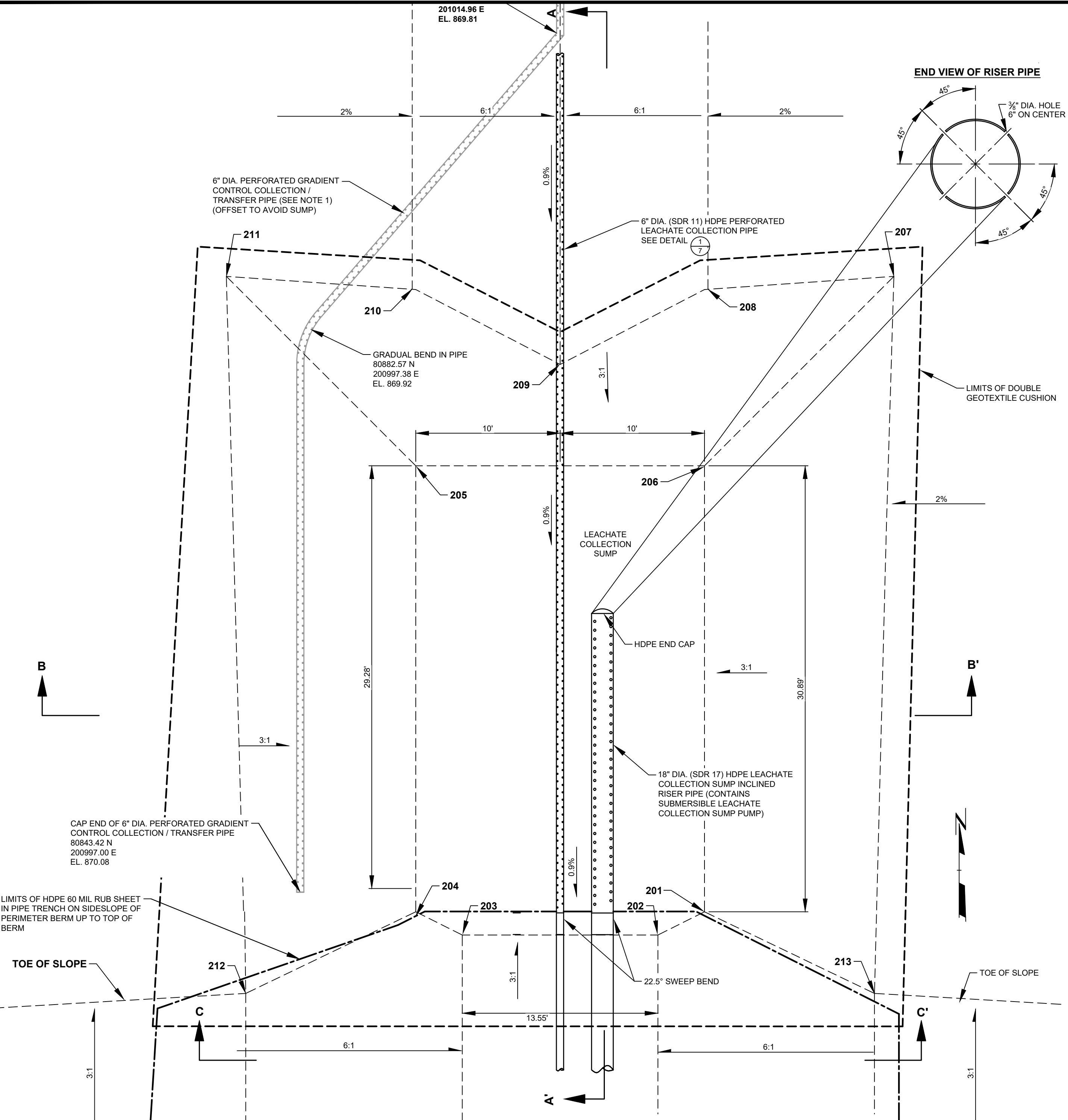
Point No.	Northing	Easting	Design Elevation	As-built
101	380,842.1	2,200,765.0	873.50	
102	380,840.5	2,200,761.8	873.50	
103	380,840.5	2,200,748.2	873.50	
104	380,842.1	2,200,745.0	873.50	
105	380,873.0	2,200,745.0	873.50	
106	380,873.0	2,200,765.0	873.50	
107	380,886.1	2,200,778.1	877.87	
108	380,885.2	2,200,765.0	877.57	
109	380,880.0	2,200,755.0	875.85	
110	380,885.2	2,200,745.0	877.57	
111	380,886.1	2,200,731.9	877.87	
112	380,863.3	2,200,732.5	877.65	
113	380,850.8	2,200,737.7	875.94	
114	380,842.1	2,200,732.6	877.64	
115	380,836.4	2,200,776.8	877.40	

LEACHATE COLLECTION SUMP FOR PHASE 11
SCALE: 1"=5'

NOTES:
1. 6" DIA. GRADIENT CONTROL PIPE IS LOCATED DIRECTLY UNDER THE LEACHATE COLLECTION PIPE UNTIL PIPE REACHES SUMP AREA WHERE IT JOGS TO THE EAST 18' TO AVOID SUMP.

NO.	BY	DATE	REVISION	APP'D.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL				
PHASES 11/12				
LINER CONSTRUCTION				
DANE COUNTY, WISCONSIN				
TITLE: DETAILS - LEACHATE COLLECTION SUMP(PHASE 11)				
DRAWN BY:	G. ASHWORTH	PROJ. NO.:	323699.0000.0000	
CHECKED BY:	G. SHEREDA			
APPROVED BY:	---	SHEET 10 OF 15		
DATE:	OCTOBER 2019			
		708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3800		
FILE NO.:	323699.0000-DT.dwg			

2024 - USER: T:\files\... ATTACHED XREFS: Details Views: P11-P12 Cross Section - ATTACHED IMAGES: DRAWING NAME: J:\Dane County LF1323699 - P11-P12 Liner Const\00001\323699_0000-DT.dwg --- PLOT DATE: October 08, 2019 - 11:42AM --- LAYOUT: 11 DETAILS - LEACHATE COLLECTION SUMP (PHASE 12)



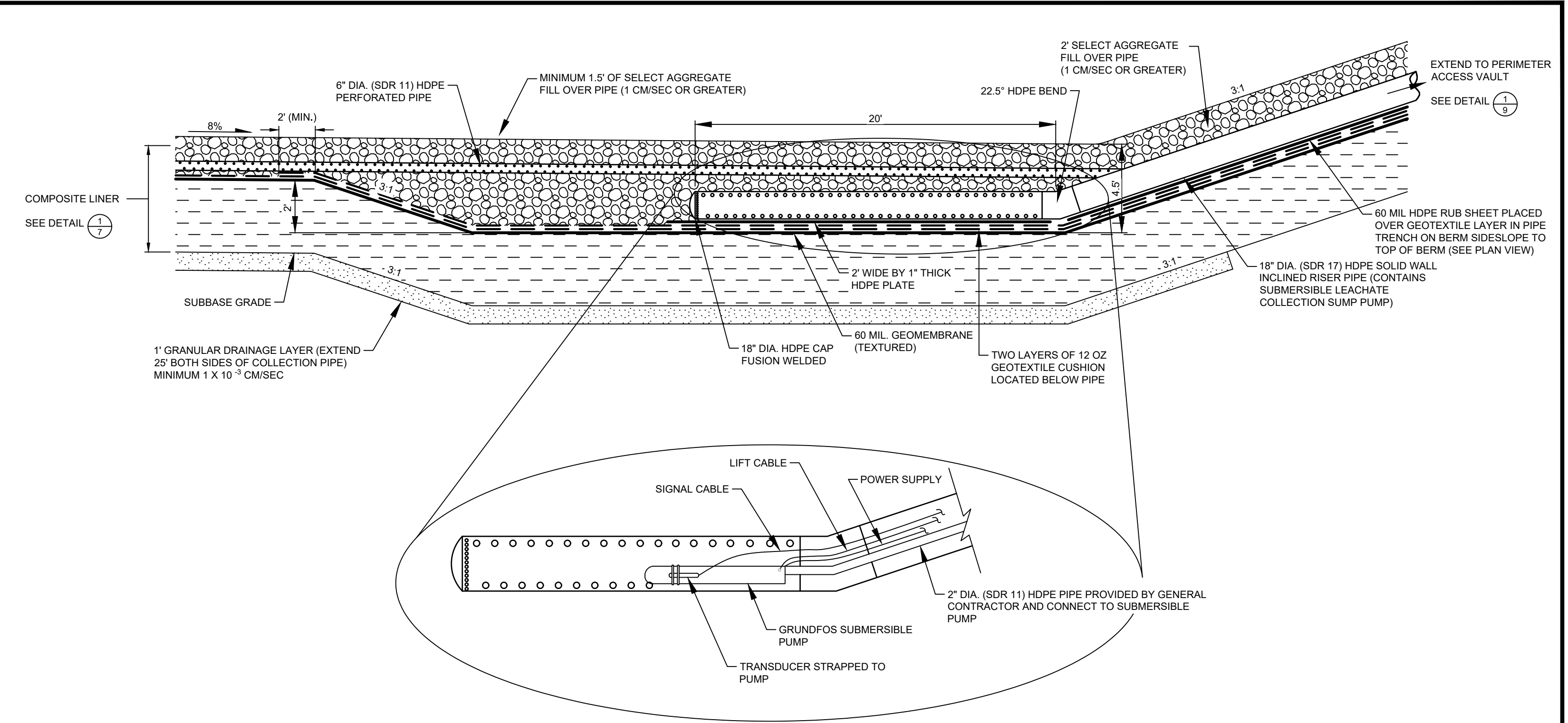
PHASE 12 SUMP COORDINATES

PHASE 12 BOTTOM OF CLAY LINER				
Point No.	Northing	Easting	Design Elevation	As-built
201	380,842.1	2,201,025.0	869.50	
202	380,840.5	2,201,021.8	869.50	
203	380,840.5	2,201,008.2	869.50	
204	380,842.1	2,201,005.0	869.50	
205	380,873.0	2,201,005.0	869.50	
206	380,873.0	2,201,025.0	869.50	
207	380,886.1	2,201,038.1	873.87	
208	380,885.2	2,201,025.0	873.57	
209	380,880.0	2,201,015.0	871.86	
210	380,885.2	2,201,005.0	873.57	
211	380,886.1	2,200,991.9	873.89	
212	380,836.4	2,200,993.2	873.40	
213	380,836.4	2,201,036.8	873.40	

PHASE 12 TOP OF CLAY LINER				
Point No.	Northing	Easting	Design Elevation	As-built
201	380,842.1	2,201,025.0	873.50	
202	380,840.5	2,201,021.8	873.50	
203	380,840.5	2,201,008.2	873.50	
204	380,842.1	2,201,005.0	873.50	
205	380,873.0	2,201,005.0	873.50	
206	380,873.0	2,201,025.0	873.50	
207	380,886.1	2,201,038.1	877.87	
208	380,885.2	2,201,025.0	877.57	
209	380,880.0	2,201,015.0	875.86	
210	380,885.2	2,201,005.0	877.57	
211	380,886.1	2,200,991.9	877.89	
212	380,836.4	2,200,993.2	877.40	
213	380,836.4	2,201,036.8	877.40	

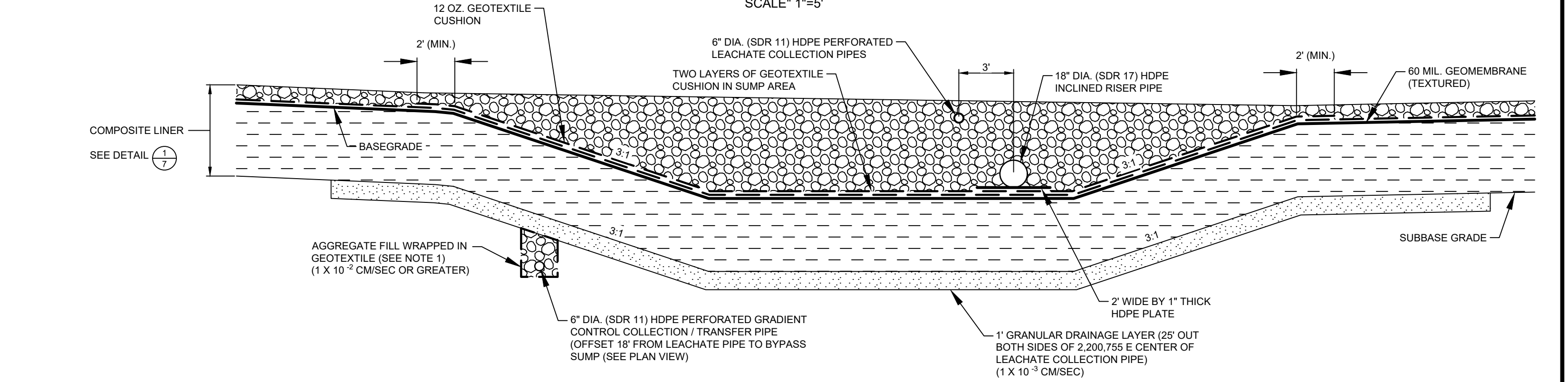
LEACHATE COLLECTION SUMP FOR PHASE 12

SCALE: 1"=5'



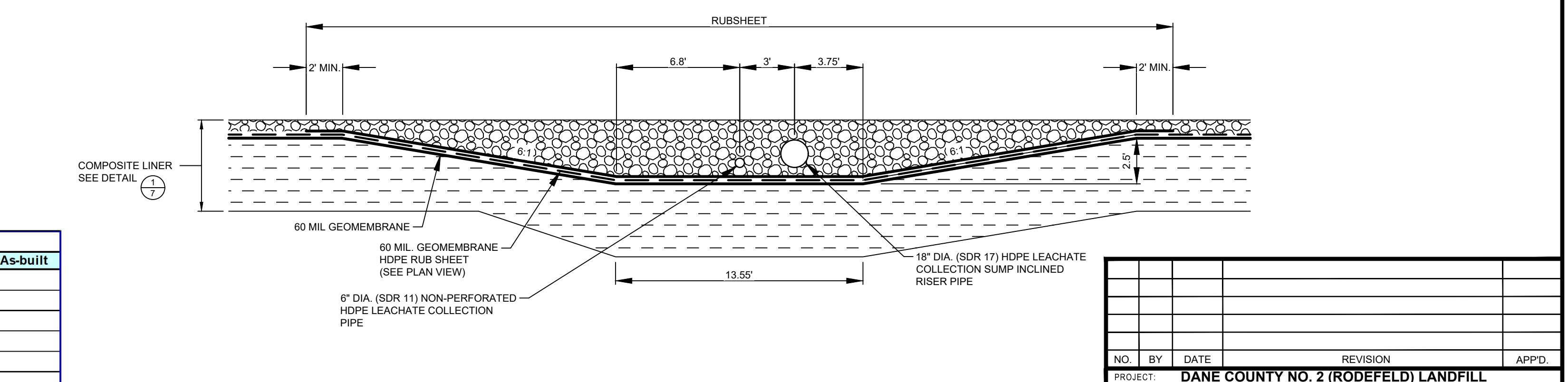
SECTION A-A' THROUGH LEACHATE COLLECTION SUMP

SCALE: 1"=5'



SECTION B-B' THROUGH LEACHATE COLLECTION SUMP

SCALE: 1"=5'



SECTION C-C' THROUGH LEACHATE COLLECTION SUMP

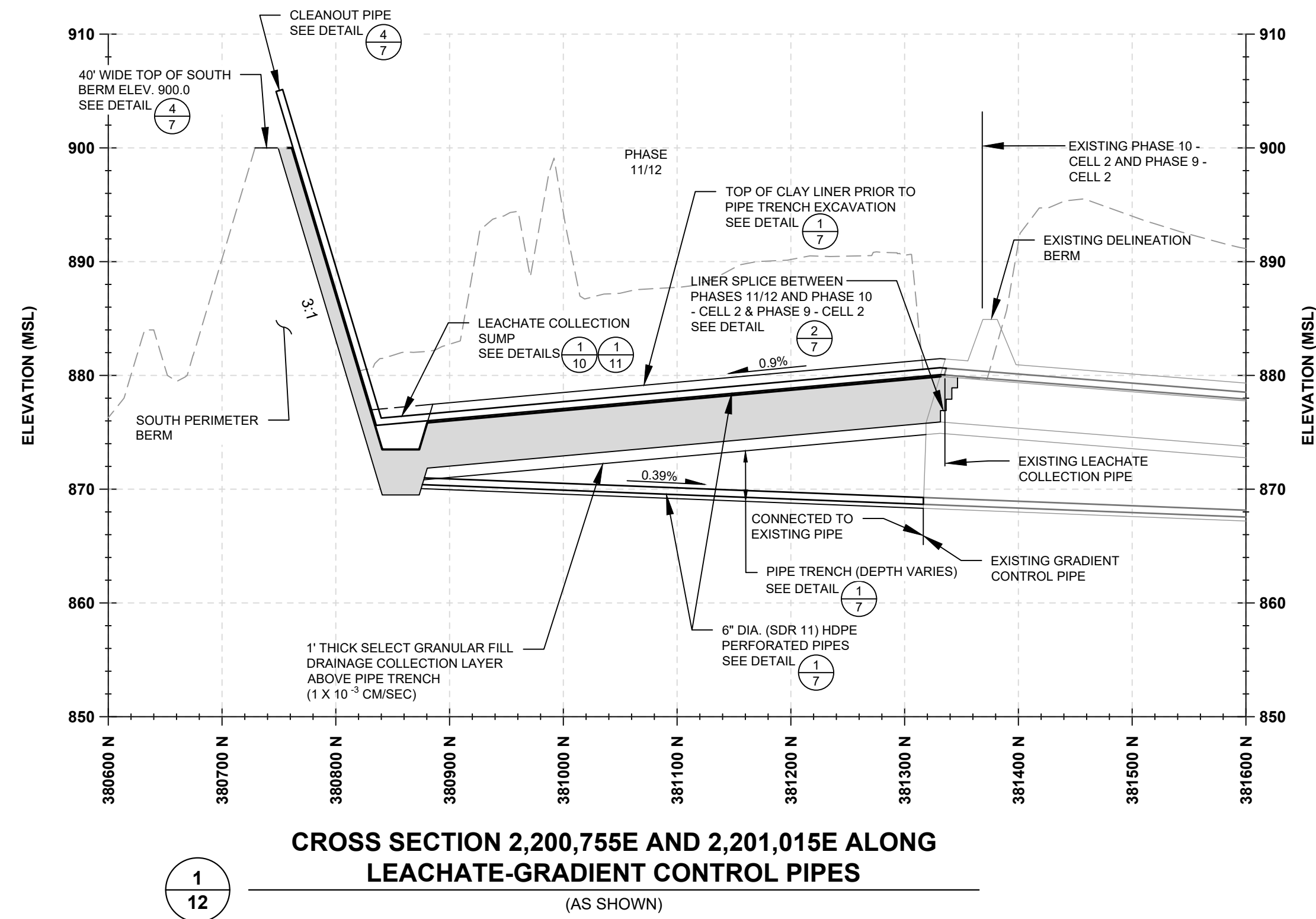
SCALE: 1"=5'

NOTES:
1. 6" DIA. GRADIENT CONTROL PIPE IS LOCATED DIRECTLY UNDER THE LEACHATE COLLECTION PIPE UNTIL PIPE REACHES SUMP AREA WHERE IT JOGS TO THE WEST 18" TO AVOID SUMP.

NO.	BY	DATE	REVISION	APP'D.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASES 11/12 LINER CONSTRUCTION DANE COUNTY, WISCONSIN				
TITLE: DETAILS - LEACHATE COLLECTION SUMP (PHASE 12)				
DRAWN BY:	G. ASHWORTH	PROJ. NO.:	323699.0000.0000	
CHECKED BY:	G. SHEREDA	SHEET 11 OF 15		
APPROVED BY:	---			
DATE:	OCTOBER 2019	FILE NO.: 323699.0000-DT.dwg		

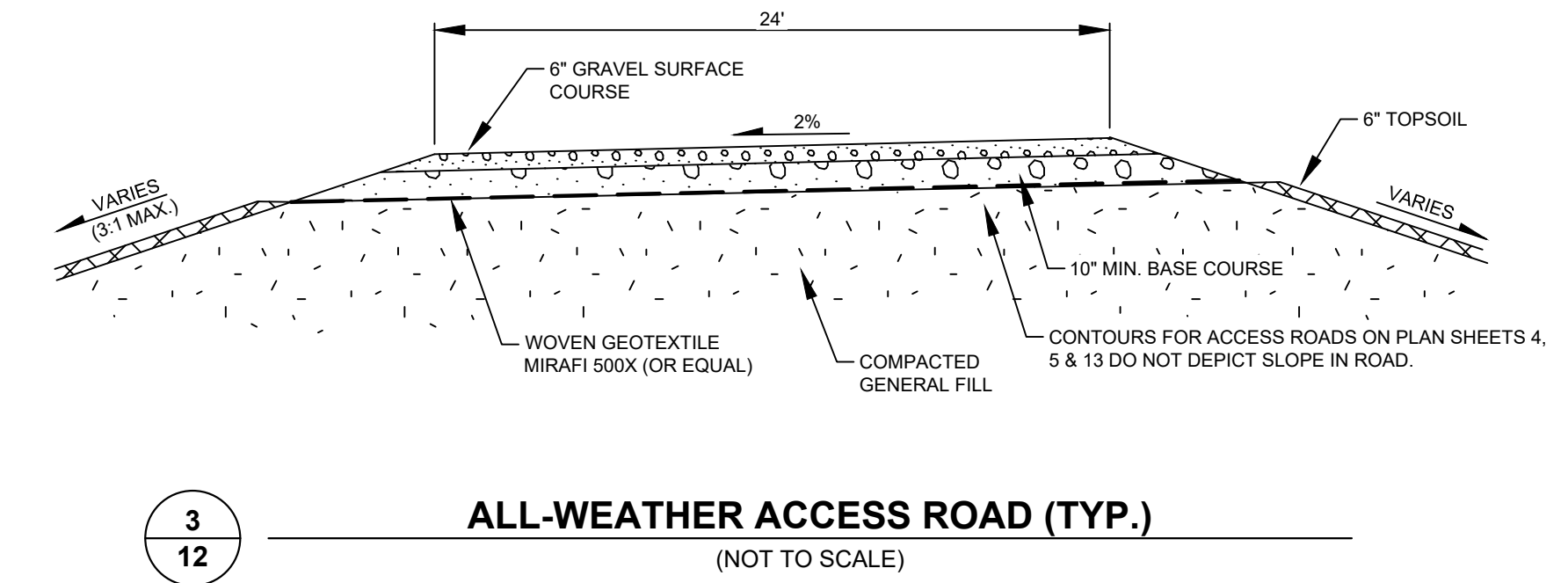
TRC

708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600



CROSS SECTION 2,200,755E AND 2,201,015E ALONG LEACHATE-GRADIENT CONTROL PIPES

1
12
(AS SHOWN)

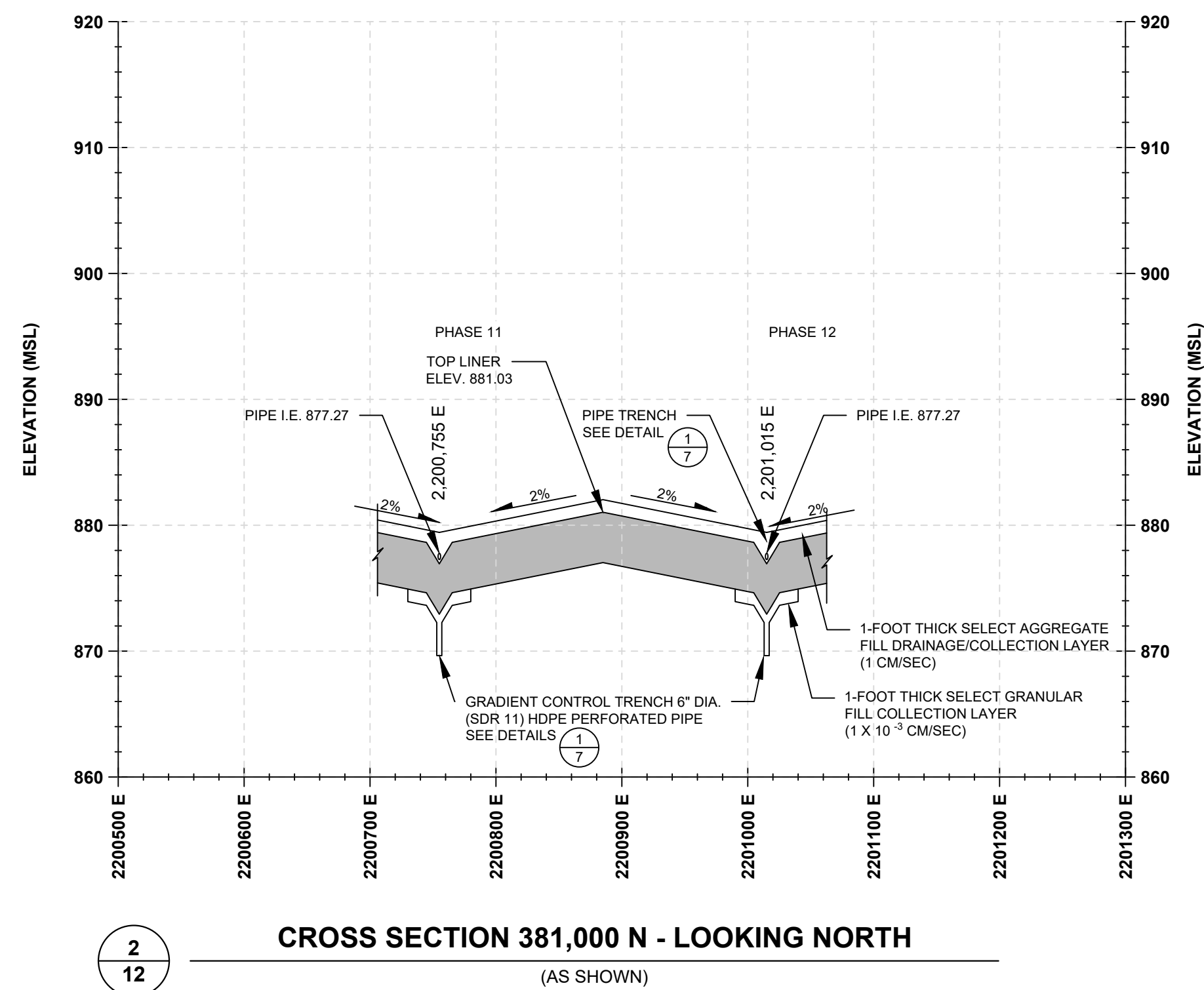


ALL-WEATHER ACCESS ROAD (TYP.)

(NOT TO SCALE)

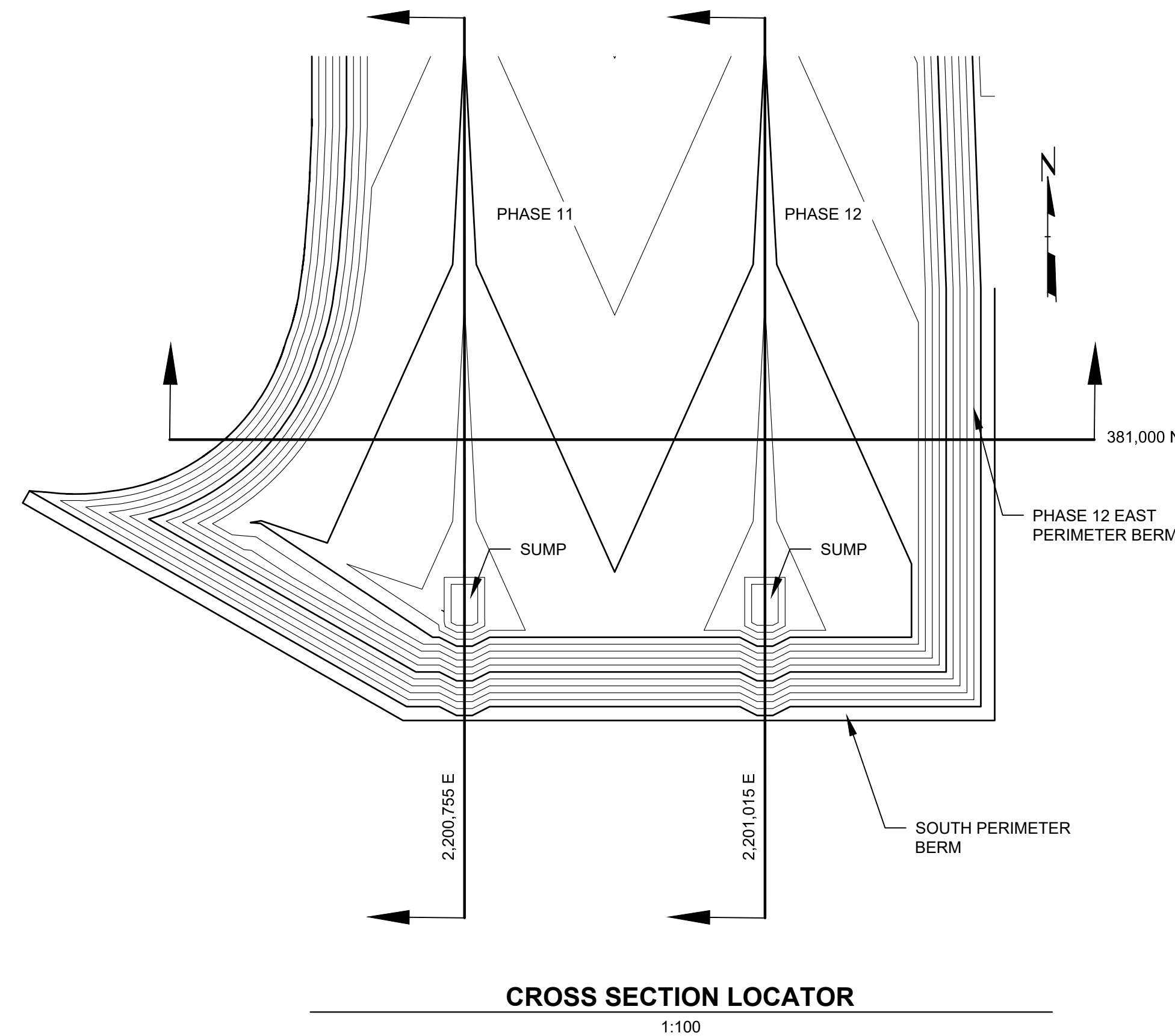
NOTES:

1. SCREENED INFORMATION REPRESENTS EXISTING FEATURES. BOLD INFORMATION REPRESENTS NEW FEATURES.



CROSS SECTION 381,000 N - LOOKING NORTH

2
12
(AS SHOWN)



CROSS SECTION LOCATOR

1:100

LINE AND SHADING LEGEND

60 MIL. HDPE GEOMEMBRANE	GEOCOMPOSITE
GEOTEXTILE	EXISTING GROUND SURFACE
TOPSOIL	NATIVE SOIL
GENERAL FILL	CONCRETE
SELECT GRANULAR FILL	RIPRAP
BARRIER LAYER FINE GRADED SOIL	BITUMINOUS PAVING
SELECT AGGREGATE FILL	SELECT FOUNDRY BYPRODUCT
COMPACTED SELECT CLAY FILL	4" THICK COMPACTED CLAY LAYER

NOTE: THESE PLANS ARE ACCOMPANIED BY A DOCUMENTATION REPORT OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

NO.	BY	DATE	REVISION	APP'D.
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PROJECT: **DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASES 11/12 LINER CONSTRUCTION DANE COUNTY, WISCONSIN**

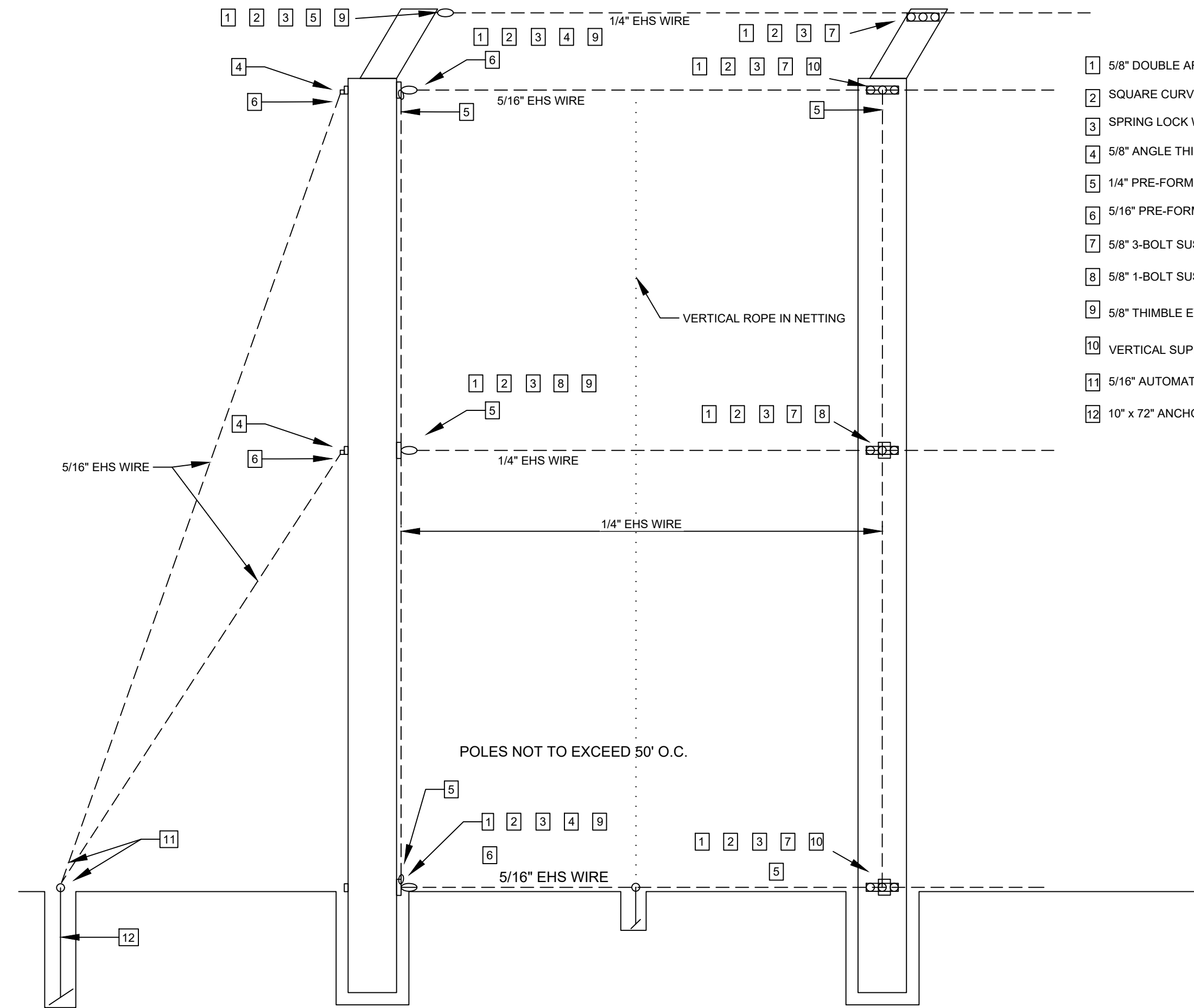
DETAILS

DRAWN BY: G. ASHWORTH	PROJ. NO.: 323699.0000.0000
CHECKED BY: G. SHEREDA	
APPROVED BY: ---	SHEET 12 OF 15
DATE: OCTOBER 2019	

TRC 708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600

FILE NO.: 323699.0000-DT.dwg

2024 - USER: T:\dane - ATTACHED XREFS: D:\dane - P11 - P12 Cross Section - ATTACHED IMAGES: DRAWING NAME: J:\Dane County LF323699 - P11 - P12 Liner Const\00001323699_0000-DT.dwg --- PLOT DATE: October 08, 2019 - 11:43AM --- LAYOUT: 13 DETAILS



1
13
TYPICAL CALBLE CONNECTION DETAILS
(NOT TO SCALE)

GENERAL NOTES

2008 INTERNATIONAL BUILDING CODE GOVERNS DESIGN AND CONSTRUCTION.

SAFETY REGULATIONS - GENERAL SAFETY ORDERS ("OSHA") IS APPLICABLE TO THE CONSTRUCTION OF THIS PROJECT AND PROVISIONS THEREOF MUST BE FOLLOWED.

ALL DIMENSIONS WHICH ARE DEPENDENT ON EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

FOUNDATION DESIGN IS BASED ON IBC TABLE NO. 1806.2, CLASS 3 MATERIAL. BEARING FOUNDATIONS SHALL BE PLACED AT A DEPTH OF AT LEAST 12"

CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 2500 PSI MINIMUM IN 28 DAYS. USE NO MORE THAN 7.6 GAL OF WATER PER SACK OF CEMENT. USE TYPE II CEMENT.

WELDING SHALL BE DONE BY A CERTIFIED WELDER USING THE SHIELDED ARC PROCESS AND E80 SERIES ELECTRODES. WELDS SHALL BE FULL SECTION, FULL PENETRATION AND SHALL DEVELOP THE FULL STRENGTH OF THE SMALLER OF THE PARTS JOINED UNLESS THE PLANS SHOW OTHERWISE. ALL SHOP WELDING SHALL BE DONE USING THE SHIELDED ELECTRIC ARC PROCESS BY CERTIFIED WELDERS USING APPROVED ELECTRODES. NO FIELD WELDING WITHOUT SPECIAL INSPECTION. ALL WELDS DESIGNED AT 50% ALLOWABLE STRESS. ALL WELDING PER AWS D1.1, USE E8018 ELECTRODES. NO FIELD WELDING IS EXPECTED TO BE PART OF THIS PROJECT.

STRUCTURAL STEEL - ALL PLATES AND SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. PIPE SHALL BE DUAL CERTIFIED API 5L X65 (65 KSI MIN. YIELD) AND PIPE SHALL BE DUAL CERTIFIED API 5L X65 (65 KSI MIN. YIELD) AND ASTM 572 GRADE 65. ALTERNATE: PIPE SHALL BE ASTM A252 PROVIDED THAT THE STEEL CERTIFICATIONS ASSOCIATED WITH THE PIPE ARE AVAILABLE AND SHOW THE STEEL TO HAVE A MINIMUM YIELD STRENGTH OF 65 KSI. BOLTS SHALL BE ASTM A307 UNLESS THE PLANS SHOW OTHERWISE. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN THE BOLT.

GENERAL CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK.

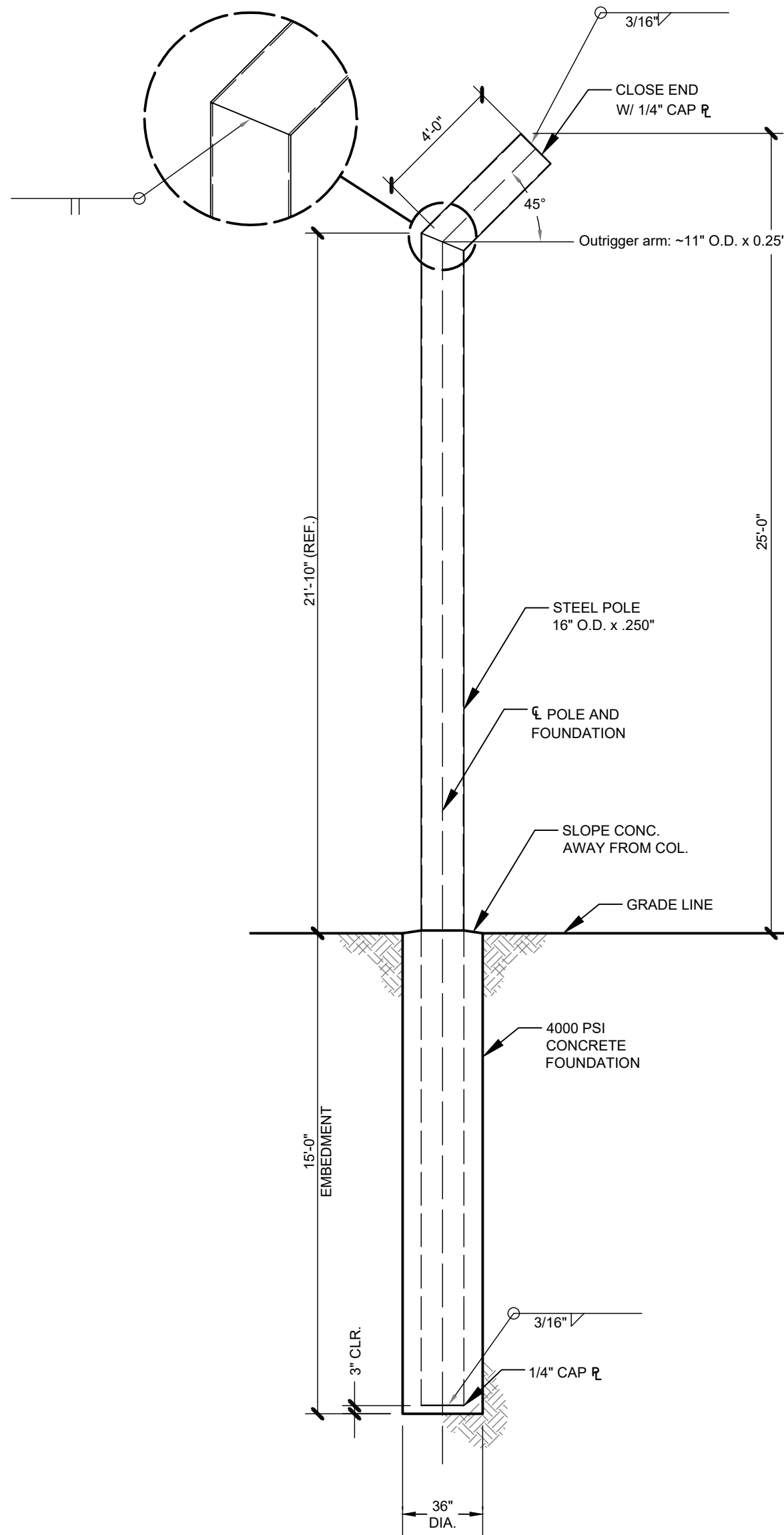
CABLE AND WIRE ROPE - 5/16" CABLE SHALL BE 1 X 7 GALVANIZED STEEL STRAND WITH A MINIMUM BREAKING STRENGTH 11,200 LBS. ALL 1/4" INCH CABLE SHALL BE 1 X 7 GALVANIZED STEEL STRAND WITH A MINIMUM BREAKING STRENGTH OF 6,650 LBS. CABLE USED SHALL EQUAL OR EXCEED THAT LISTED ABOVE.

WIRE ROPE FITTINGS SHALL DEVELOP THE BREAK STRENGTH OF THE CABLE PER THE MANUFACTURER (CROSBY OR EQUAL).

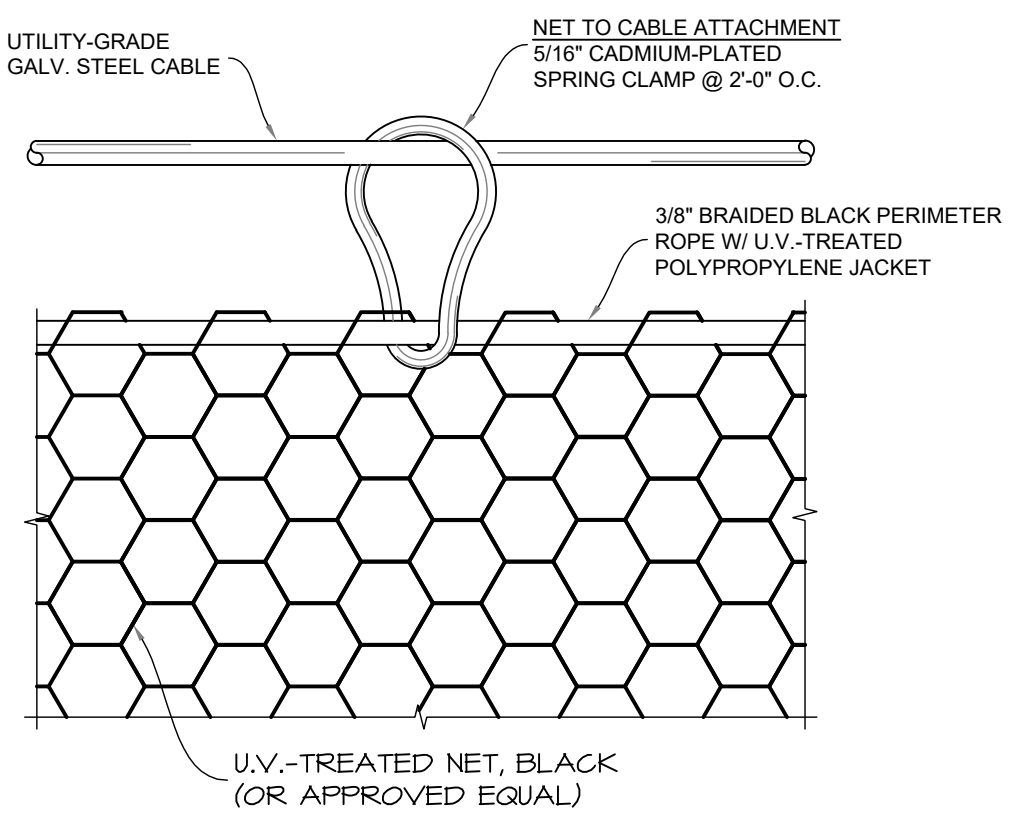
NETTING SHALL HAVE NO MORE THAN 86% OF EQUIVALENT SOLID WIND DRAG. NETTING SUPPORT POLES AND FOUNDATIONS ARE DESIGNED WITH THE ASSUMPTION THAT THE NET HAS 40% EQUIVALENT WIND DRAG.

PAINT SHALL BE BLACK "STRYK 5388" ANTI - CORROSION COATING SYSTEM, 3 - CO AT PROCESS.

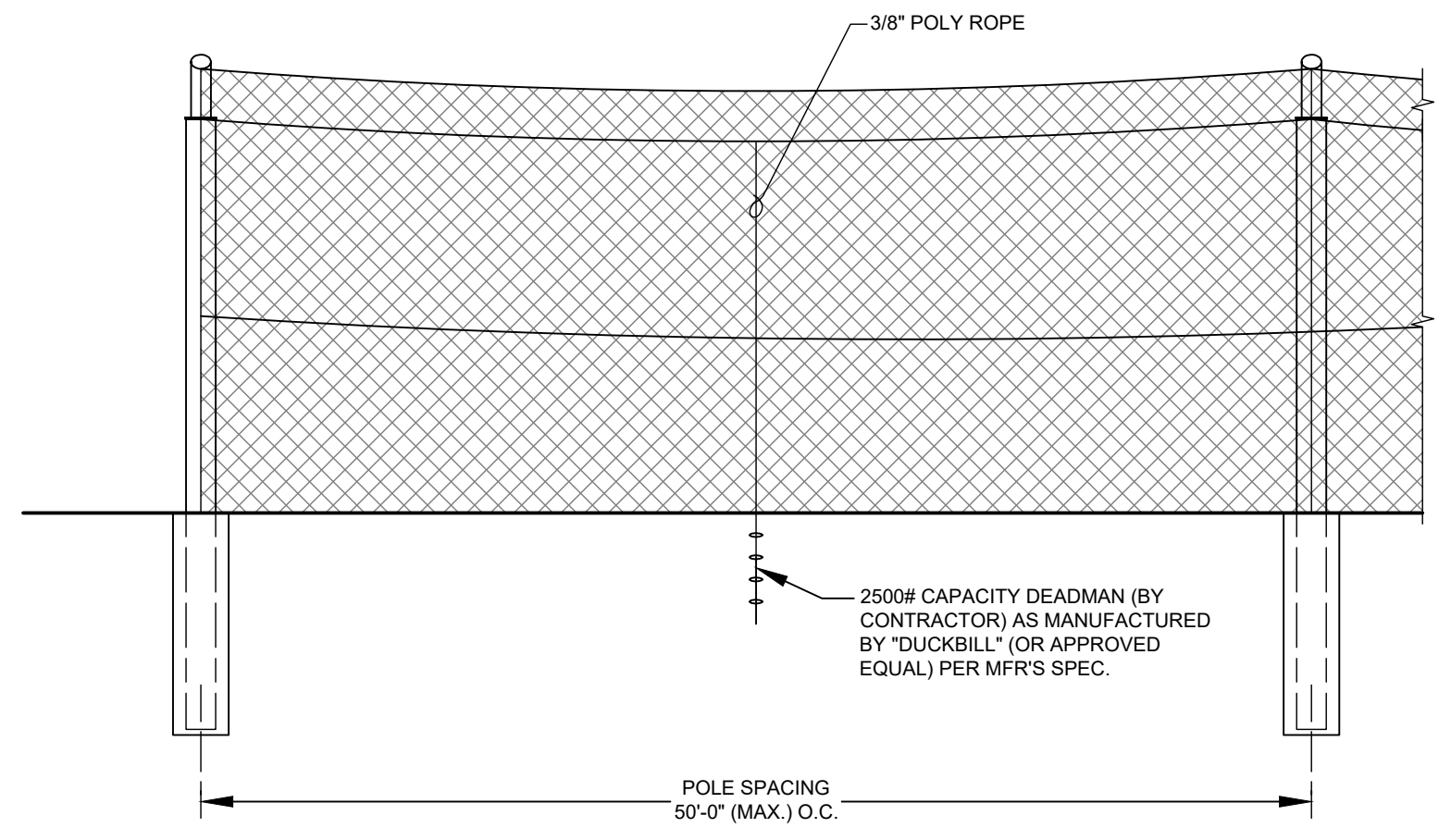
- 1 5/8" DOUBLE ARMING FULL THREAD BOLT
- 2 SQUARE CURVED WASHER
- 3 SPRING LOCK WASHER
- 4 5/8" ANGLE THIMBLE EYE
- 5 1/4" PRE-FORMED GRIP
- 6 5/16" PRE-FORMED GRIP
- 7 5/8" 3-BOLT SUSPENSION CLAMP
- 8 5/8" 1-BOLT SUSPENSION CLAMP
- 9 5/8" THIMBLE EYE NUT
- 10 VERTICAL SUPPORT ROLLER / SHEAVE
- 11 5/16" AUTOMATIC GUY DEAD-END
- 12 10" x 72" ANCHOR ASSEMBLY



2
13
POLE W/ FOUNDATION
(NOT TO SCALE)



4
13
MESH SUPPORT DETAIL
(NOT TO SCALE)



3
13
ELEVATION
(NOT TO SCALE)

LINE AND SHADING LEGEND

60 MIL. HDPE GEOMEMBRANE	GEOCOMPOSITE
GEOTEXTILE	EXISTING GROUND SURFACE
TOPSOIL	NATIVE SOIL
GENERAL FILL	CONCRETE
SELECT GRANULAR FILL	RIPRAP
BARRIER LAYER FINE GRADED SOIL	BITUMINOUS PAVING
SELECT AGGREGATE FILL	SELECT FOUNDRY BYPRODUCT
COMPACTED SELECT CLAY FILL	4" THICK COMPACTED CLAY LAYER

NOTE: THESE PLANS ARE ACCOMPANIED BY A DOCUMENTATION REPORT OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

NO.	BY	DATE	REVISION	APP'D.

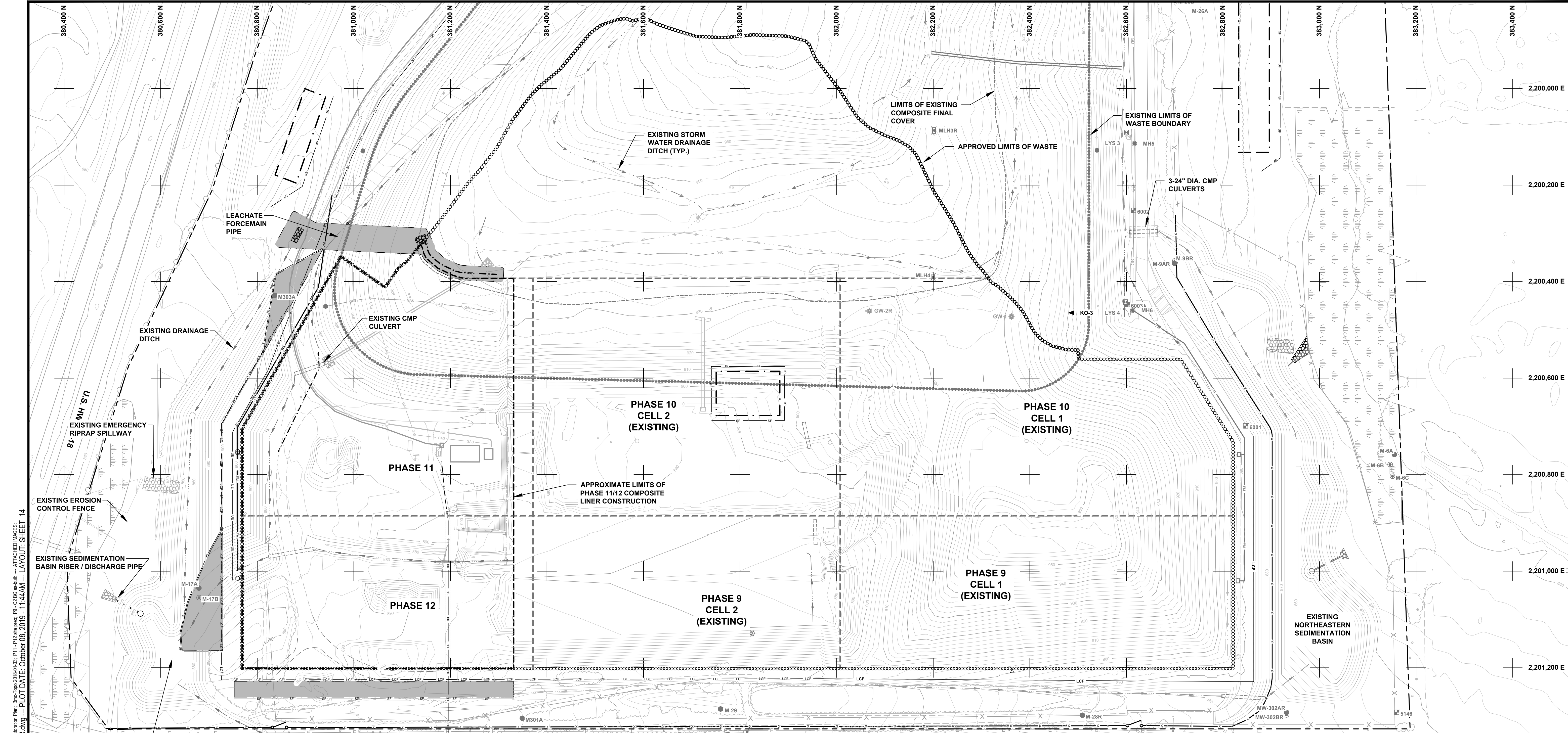
PROJECT: **DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASES 11/12 LINER CONSTRUCTION DANE COUNTY, WISCONSIN**

TITLE: **DETAILS - PERIMETER LITTER FENCE**

DRAWN BY: G. ASHWORTH	PROJ. NO.: 323699.0000.0000
CHECKED BY: G. SHEREDA	SHEET 13 OF 15
APPROVED BY: ---	
DATE: OCTOBER 2019	

TRC 708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600

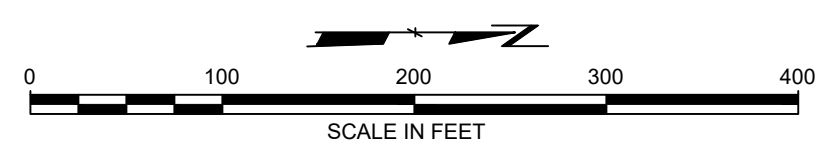
FILE NO.: 323699.0000-DT.dwg



2534 -- USER: T:\fileshare -- ATTACHED XREFS: Bmc-2014-12-02; Bmc: Wells Gas 100s; Wells Leach 100s; Grid Restoration Plan; Bmc-topo 2018-01-03; P11-P12; 348 prep; P9_C2 85 84-bull; -- ATTACHED IMAGES: DRAWING NAME: J:\Dane County LF323699-0000-SR.dwg -- PLOT DATE: October 08, 2019 - 11:44AM -- LAYOUT: SHEET 14

LEGEND

	AREAS FOR PLACEMENT OF WISDOT CLASS I TYPE B EROSION CONTROL AND VEGETATION MAT (ECRM). (INSTALLED BY CONTRACTOR)
	AREAS WHERE SEDIMENTATION FENCE WILL BE INSTALLED
	SEDIMENT EROSION CONTROL LOGS WILL BE INSTALLED



- NOTES**
1. UNDER NO CONDITIONS WILL TREES BE REMOVED WITHOUT PRIOR APPROVAL FROM THE OWNER/ENGINEER.
 2. UNDER NO CONDITIONS WILL CONSTRUCTION ACTIVITIES TAKE PLACE OUTSIDE THE SEDIMENTATION FENCE AREA.
 3. UNDER NO CONDITIONS WILL CONSTRUCTION ACTIVITIES TAKE PLACE OUTSIDE THE LIMITS OF CONSTRUCTION BOUNDARY WITHOUT PRIOR APPROVAL FROM THE OWNER/ENGINEER.
 4. OWNER WILL PERFORM CLEARING AND GRUBBING ACTIVITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO THE BEGINNING OF PHASE 11/12 CONSTRUCTION.
 5. CONTRACTOR TO INSTALL, MAINTAIN, REPAIR, AND REPLACE SILT FENCE AS NECESSARY DURING CONSTRUCTION.
 6. CONTRACTOR TO SEED, FERTILIZE AND MULCH SOIL STOCKPILES IMMEDIATELY AFTER PLACEMENT OF TOPSOIL AT FINAL FINISHED GRADES.
 7. SOIL STOCKPILES ARE TO BE CONSTRUCTED USING MAXIMUM 5-FOOT HIGH LIFTS, WITH THE EXCEPTION OF SOUTH PERIMETER BERM. INSTALL IN MAXIMUM 14-FOOT HIGH LIFTS AND COMPACT TO THE REQUIREMENT IN SECTION 02320 OF THE PROJECT MANUAL. THE SIDE SLOPES (EXCEPT THE ACCESS POINT FOR THE NEXT LIFT) SHALL BE SEEDED AND MATTED IMMEDIATELY UPON THE COMPLETION OF EACH LIFT.
 8. CONTRACTOR TO INSTALL STONE TRACKING PAD (MINIMUM LENGTH 100 FT) AT CONSTRUCTION ENTRANCE.

NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

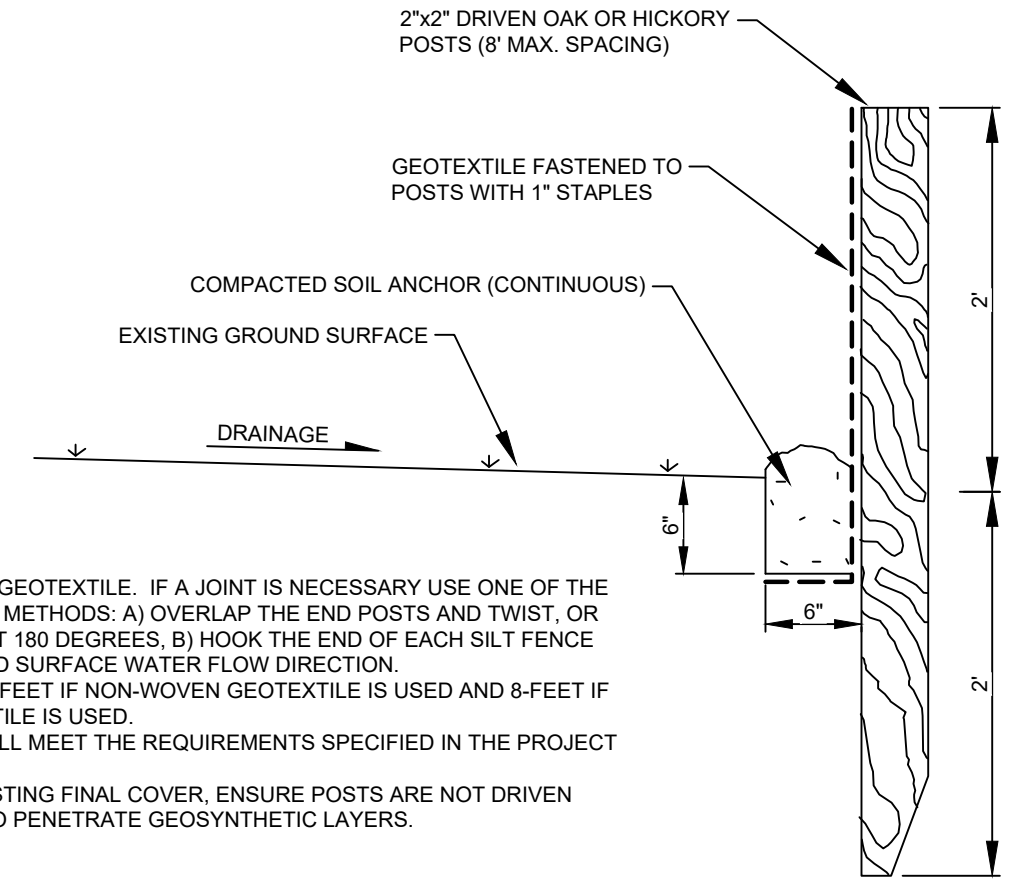
NO.	BY	DATE	REVISION	APP'D.
PROJECT: DANE COUNTY NO. 2 (RODEFELD) LANDFILL				
PHASES 11/12				
LINER CONSTRUCTION				
DANE COUNTY, WISCONSIN				
TITLE: EROSION CONTROL - SITE RESTORATION PLAN				
DRAWN BY: G. ASHWORTH		PROJ. NO.: 323699.0000.0000		
CHECKED BY: G. SHEREDA		SHEET 14 OF 15		
APPROVED BY: ---				
DATE: OCTOBER 2019		FILE NO.: 323699.0000-SR.dwg		

708 Heartland Trail
Suite 300
Madison, WI 53717
Phone: 608.826.3600

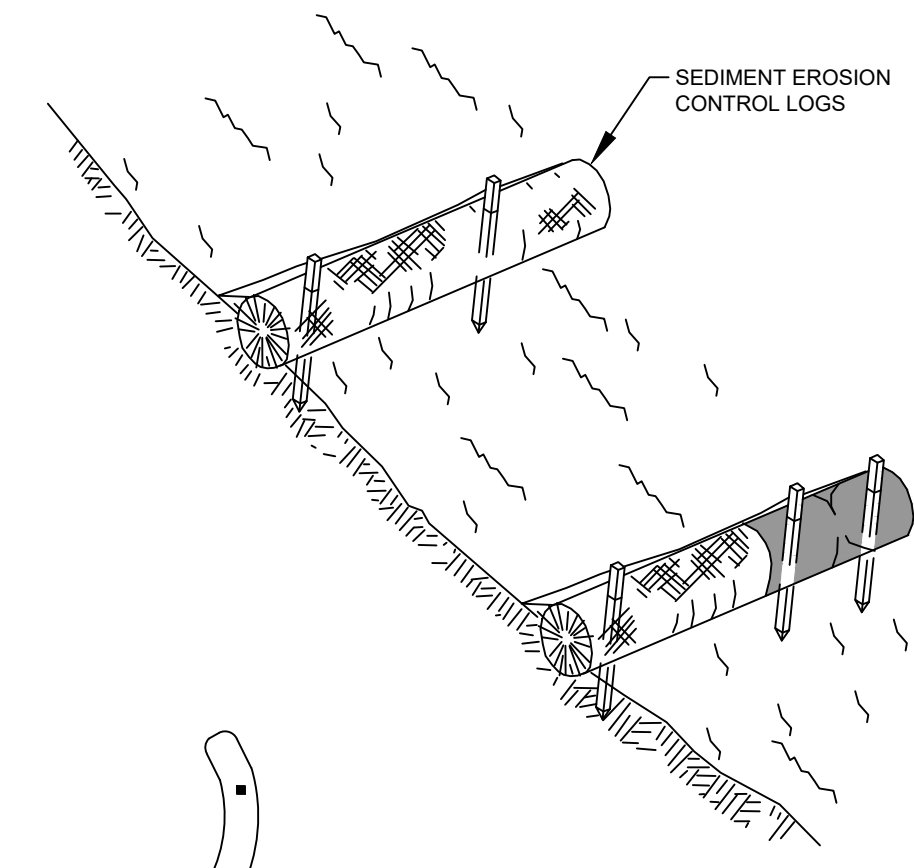
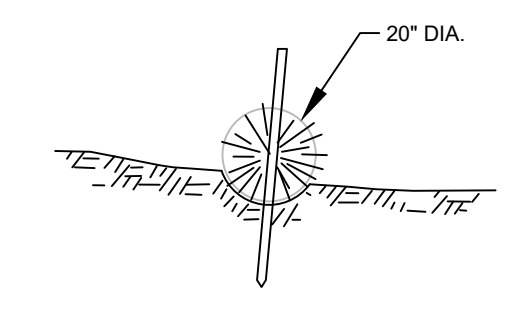
2304 - USER: T:\dane - ATTACHED XREFS - Details_Vews: P11 - P12 Cross Section - ATTACHED IMAGES: DRAWING NAME: J:\Dane County LF\323699 - P11-P12 Liner Const\00001\323699_0000-DT.dwg --- PLOT DATE: October 08, 2019 - 11:45AM --- LAYOUT: 15 DETAILS - EROSION CONTROL

NOTES:

1. AVOID JOINTS IN GEOTEXTILE. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE AT LEAST 180 DEGREES. B) HOOK THE END OF EACH SILT FENCE UPWARD TOWARD SURFACE WATER FLOW DIRECTION.
2. POST SPACING 2-FEET IF NON-WOVEN GEOTEXTILE IS USED AND 8-FEET IF WOVEN GEOTEXTILE IS USED.
3. GEOTEXTILE SHALL MEET THE REQUIREMENTS SPECIFIED IN THE PROJECT MANUAL.
4. IN AREAS OF EXISTING FINAL COVER, ENSURE POSTS ARE NOT DRIVEN DEEP ENOUGH TO PENETRATE GEOSYNTHETIC LAYERS.

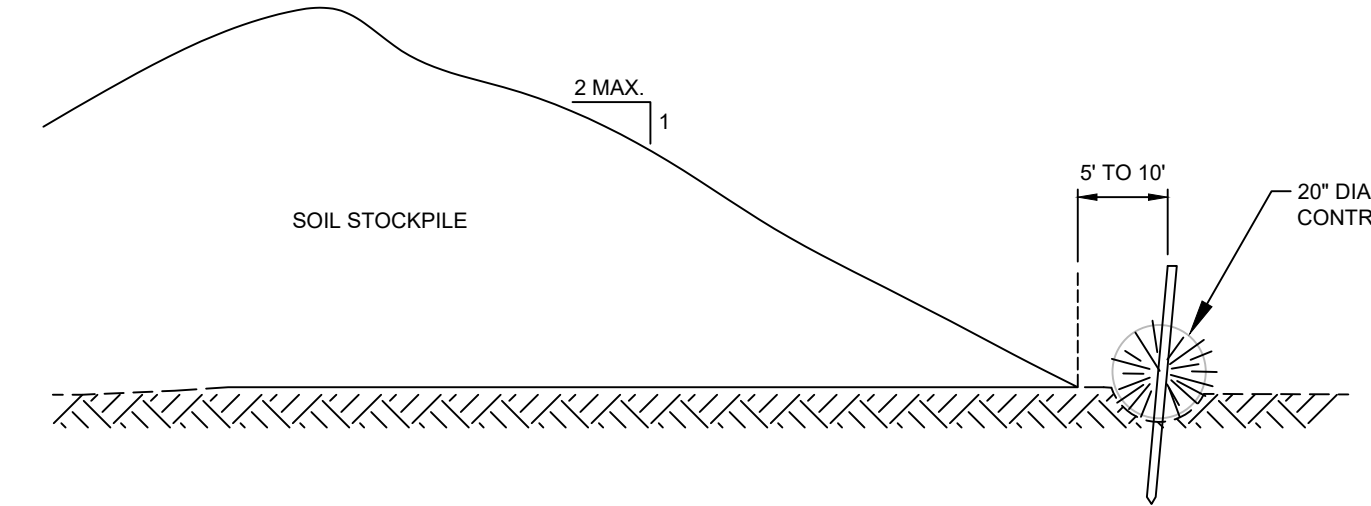


CROSS SECTION VIEW

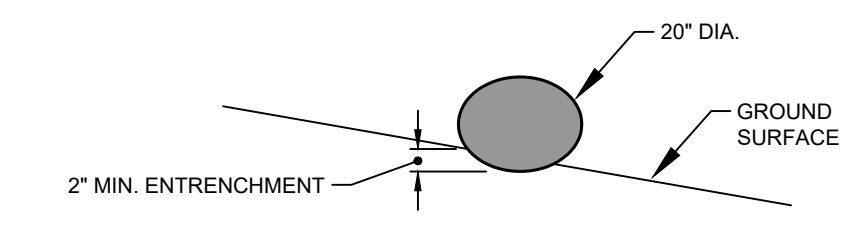


PLAN VIEW

1. INSTALL SEDIMENT EROSION CONTROL LOG ALONG CONTOUR OF SLOPE WHERE POSSIBLE.
2. TURN ENDS OF LOGS UPHILL TO CONTROL WATER FROM FLOWING AROUND ENDS.
3. REFER TO WDNR CONSERVATION PRACTICE NO. 1071.

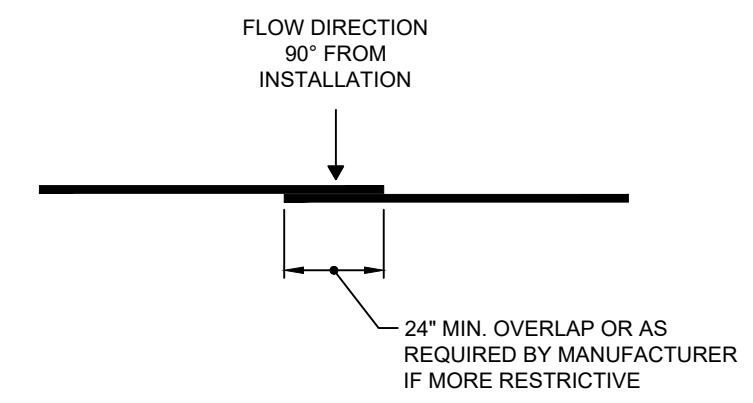


SOIL STOCKPILE CROSS SECTION

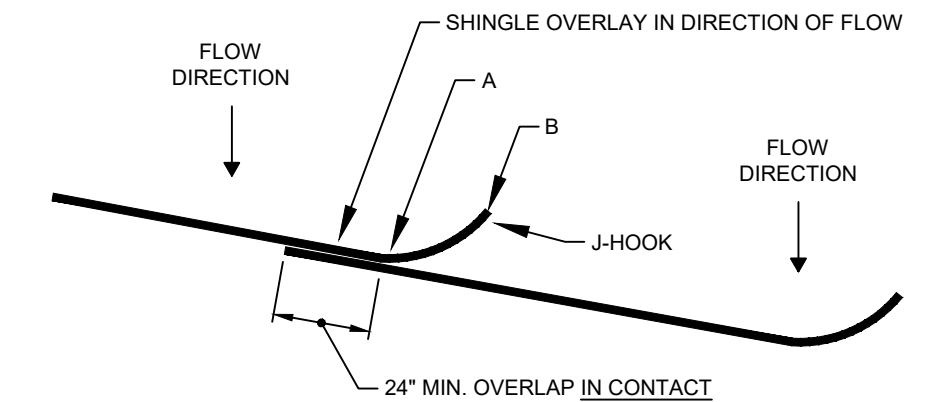


CROSS SECTION

- NOTE:**
1. INSTALLED HEIGHT IS MEASURED FROM THE UPSLOPE GROUND SURFACE TO THE TOP OF THE PRODUCT. DUE TO SETTLEMENT AND/OR DEFORMATION, THE INSTALLED HEIGHT MAY NOT BE EQUIVALENT TO THE NOMINAL DIAMETER OF THE PRODUCT.

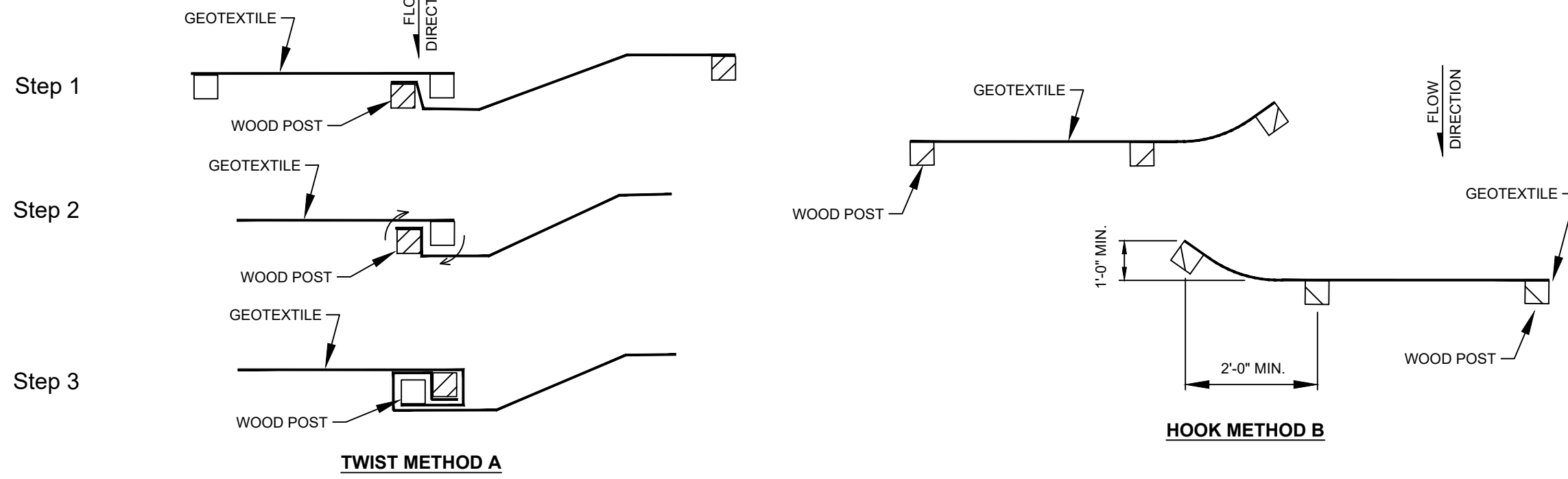


TYPICAL INSTALLATION (PLAN VIEW)



SLOPING INSTALLATION (PLAN VIEW)

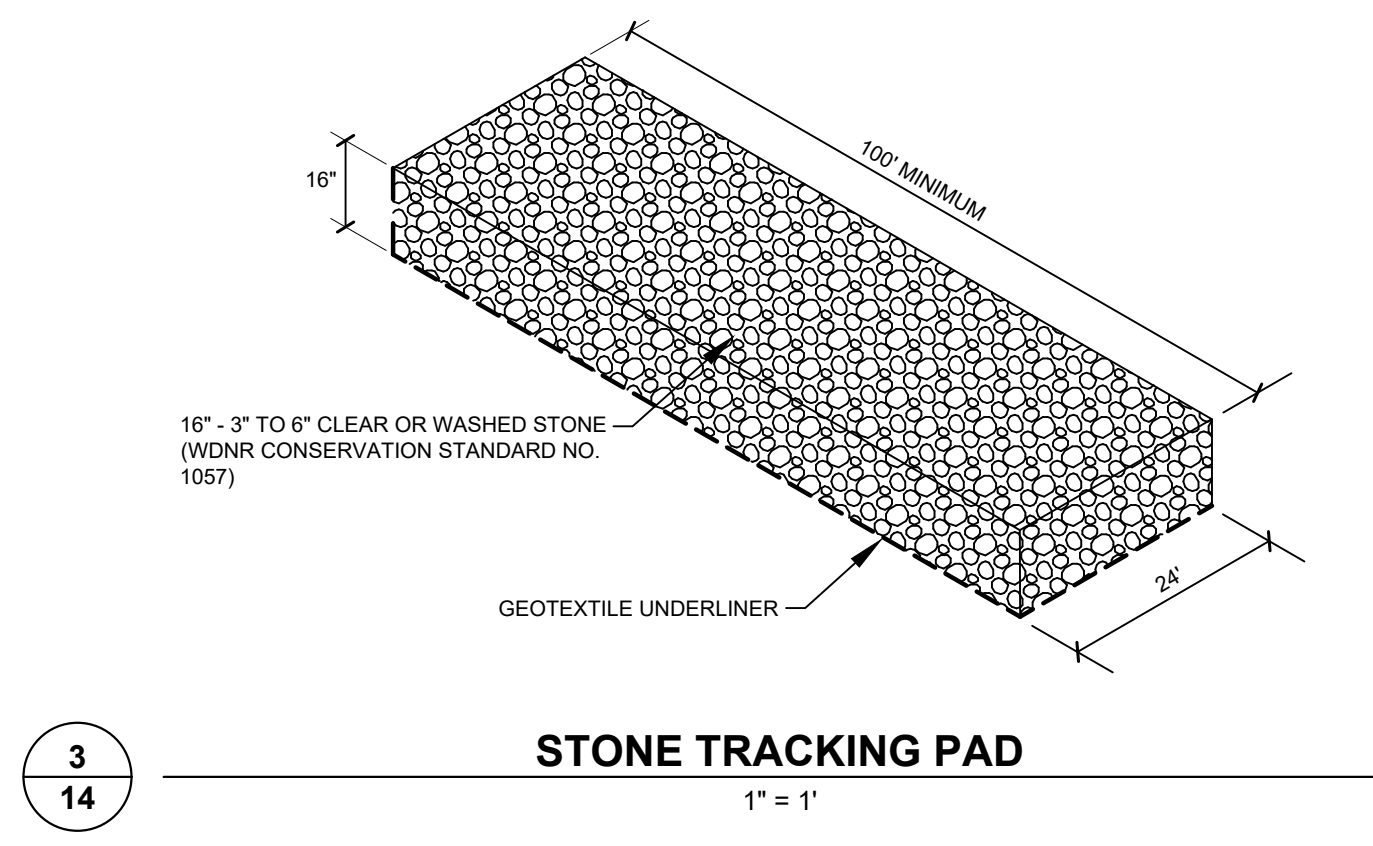
- NOTES:**
1. J-HOOKS SHALL BE INSTALLED SO THAT THE GROUND-PRODUCT INTERFACE ELEVATION AT LOCATION B IS HIGHER THAN THE TOP OF PRODUCT ELEVATION AT LOCATION A TO CREATE A WEIR AT POINT A.
 2. J-HOOKS SHALL BE INSTALLED EVERY 2 VERTICAL FEET OF DROP ALONG THE LENGTH OF INSTALLATION.
 3. STAKE OVERLAP AS REQUIRED BY MANUFACTURER.



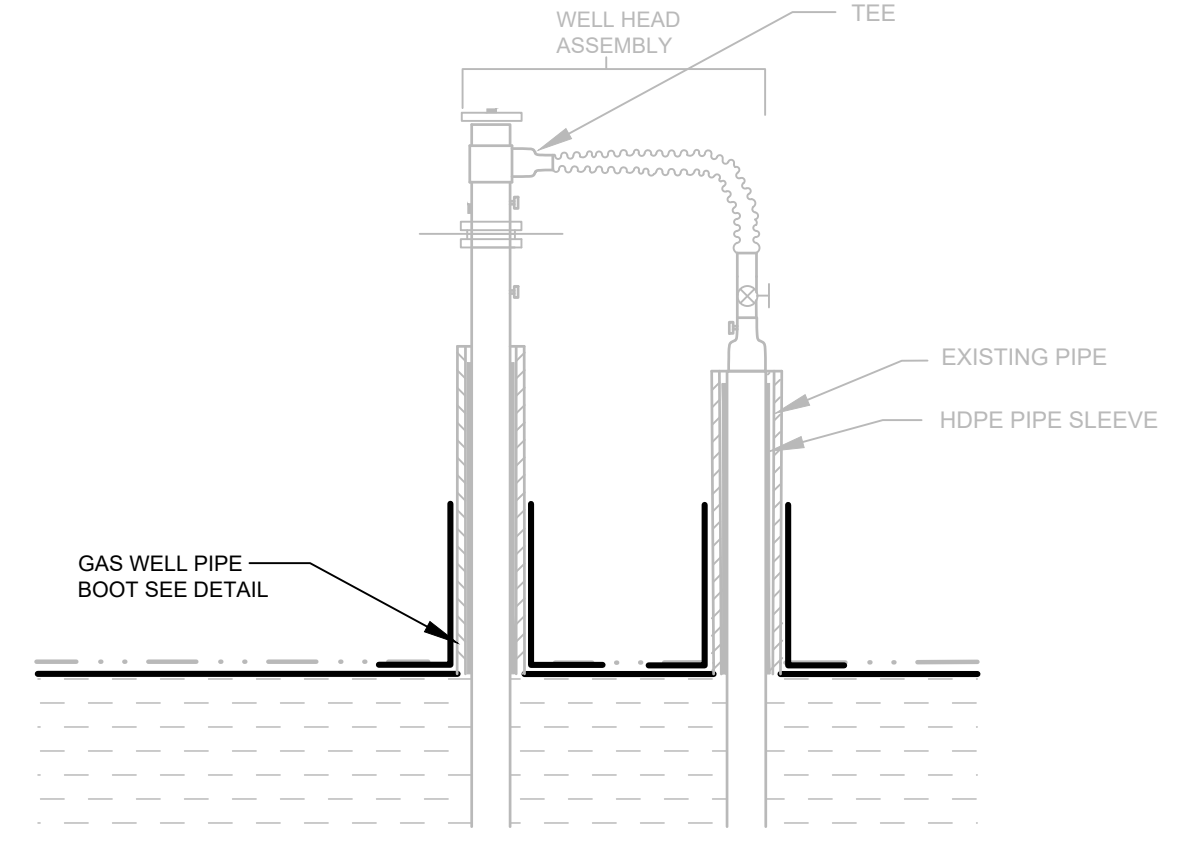
JOINING TWO LENGTHS OF SILT FENCE

1
15 **EROSION CONTROL FENCE**
1" = 1"

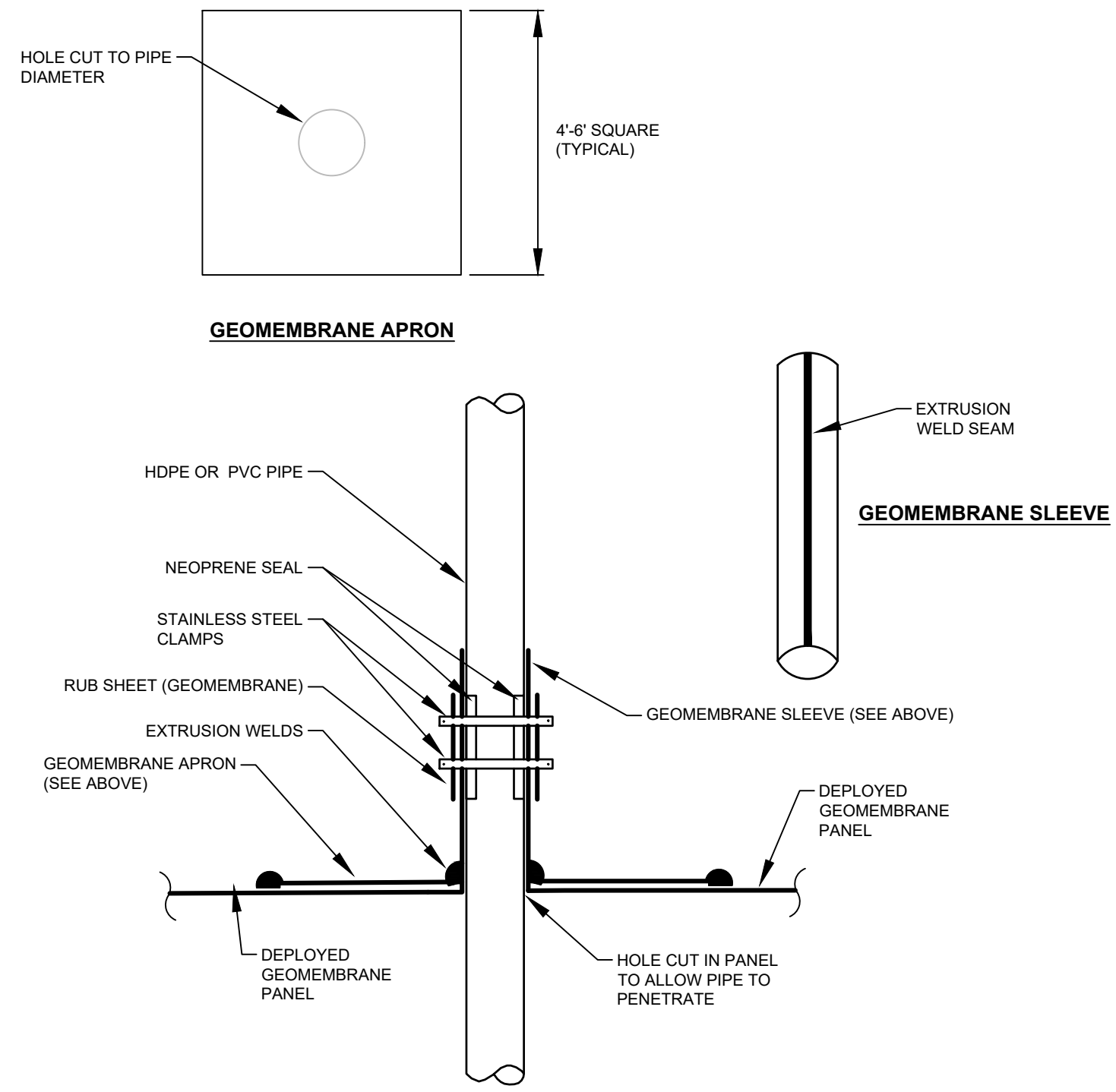
2
14 **SEDIMENT EROSION CONTROL LOGS**
1" = 1"



3
14 **STONE TRACKING PAD**
1" = 1"



4
15 **GAS PIPE BOOT (TYPICAL)**
1" = 1"



LINE AND SHADING LEGEND			
	60 MIL HDPE GEOMEMBRANE		GEOCOMPOSITE
	GEOTEXTILE		NATIVE SOIL
	TOPSOIL		CONCRETE
	GENERAL FILL		RIPRAP
	SELECT GRANULAR FILL		BITUMINOUS PAVING
	BARRIER LAYER FINE GRADED SOIL		SELECT FOUNDRY BYPRODUCT
	SELECT AGGREGATE FILL		
	COMPACTED SELECT CLAY FILL		

NOTE: THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCING WORK ON THIS CONTRACT, IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.

NOTE: THESE PLANS ARE ACCOMPANIED BY A PROJECT MANUAL OF THE SAME TITLE. THESE DOCUMENTS ARE INTERRELATED AND ARE INTENDED TO BE USED TOGETHER.

NO.	BY	DATE	REVISION	APP'D.

PROJECT: **DANE COUNTY NO. 2 (RODEFELD) LANDFILL PHASES 11/12 LINER CONSTRUCTION DANE COUNTY, WISCONSIN**

TITLE: **DETAILS - EROSION CONTROL**

DRAWN BY:	G. ASHWORTH	PROJ. NO.:	323699.0000.0000
CHECKED BY:	G. SHEREDA		
APPROVED BY:	---		
DATE:	OCTOBER 2019		

SHEET 15 OF 15

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