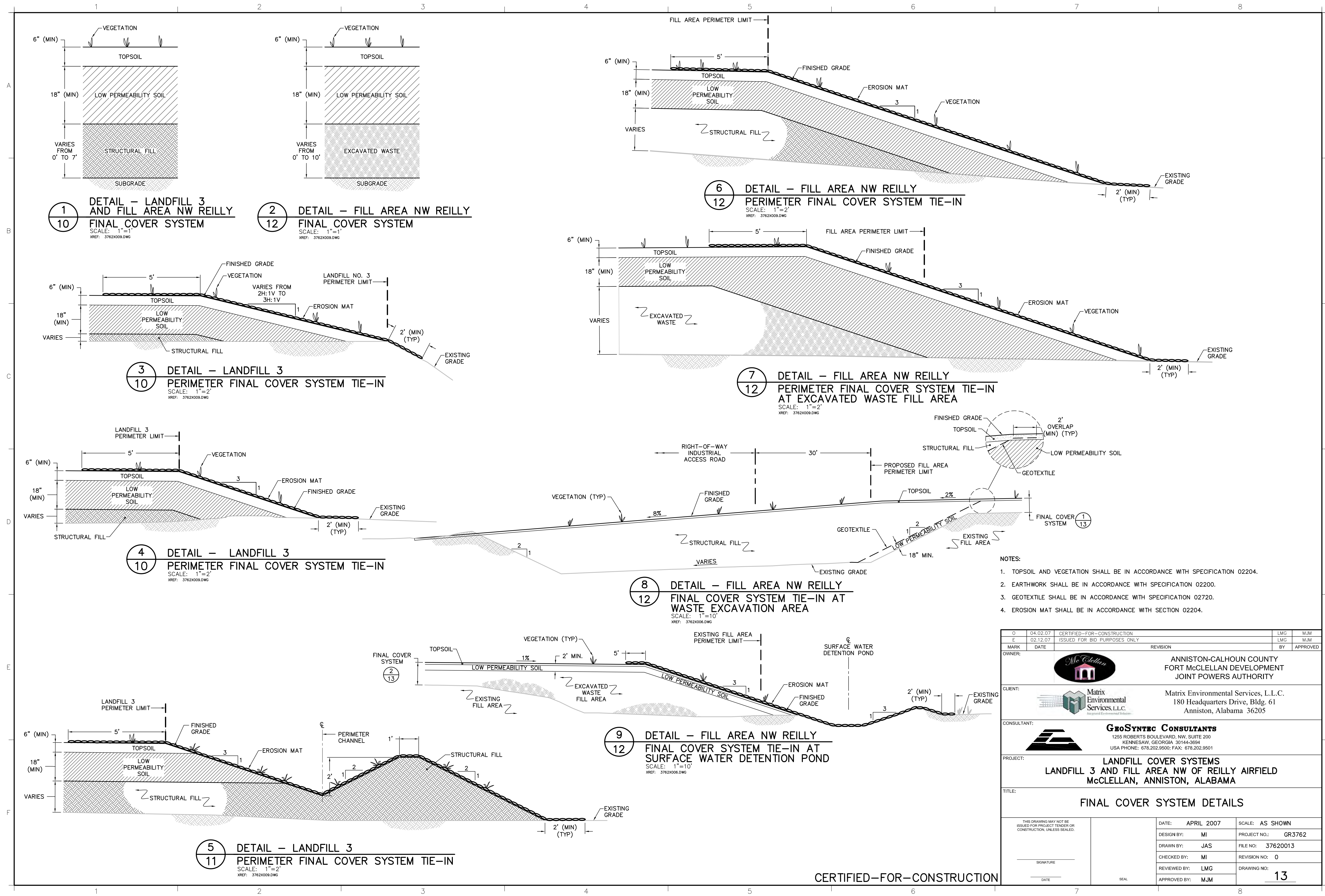
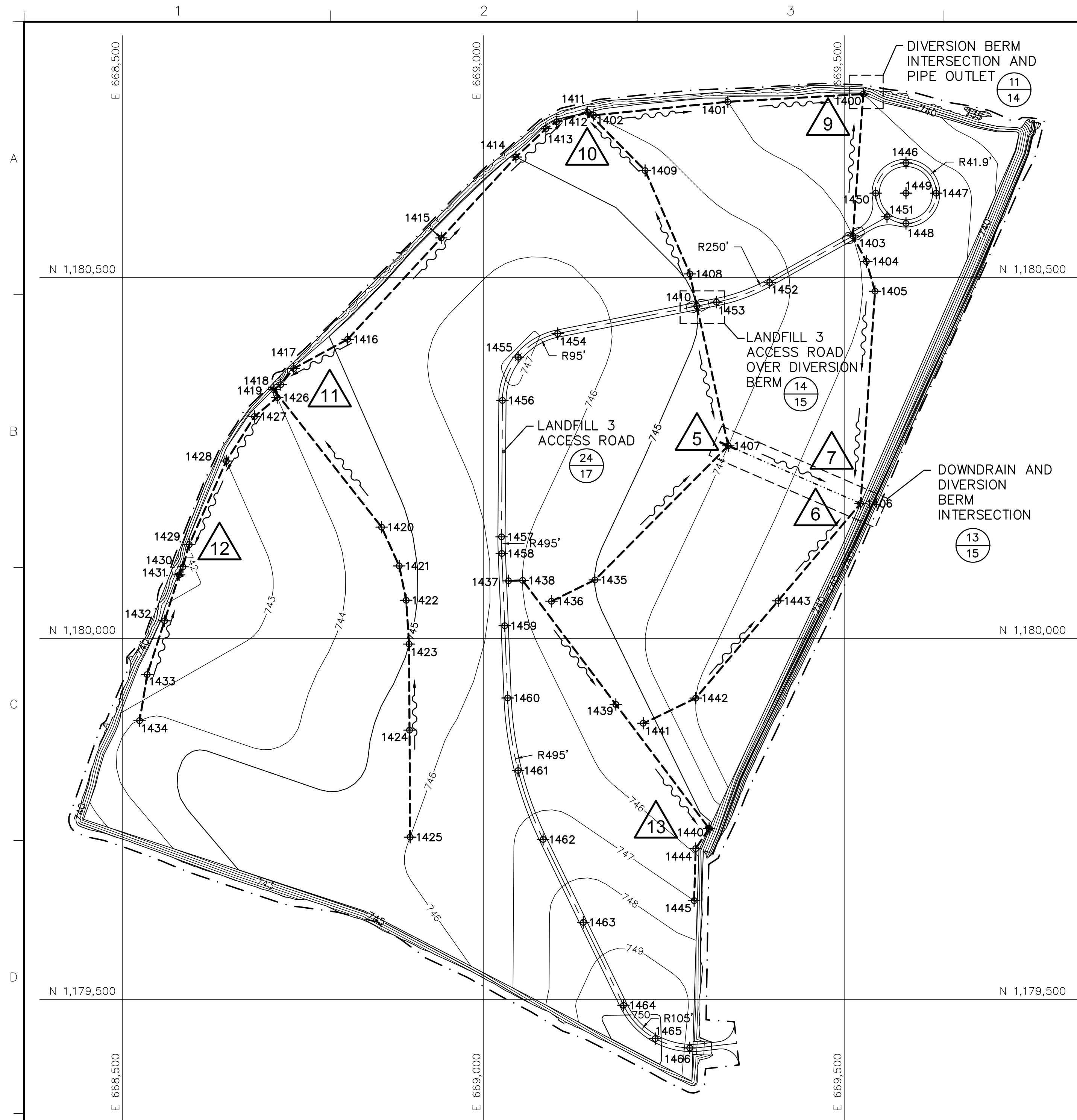


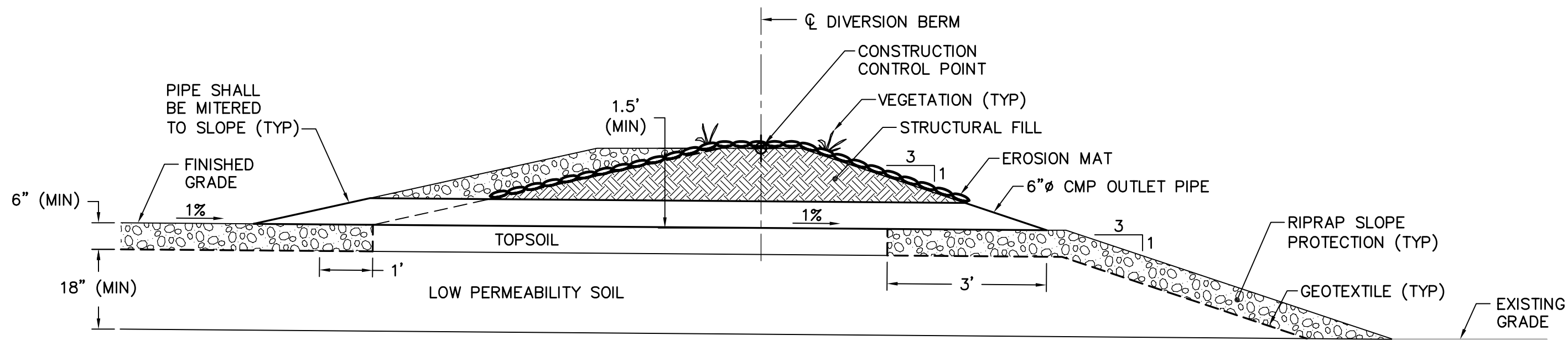


0		04.02.07	CERTIFIED-FOR-CONSTRUCTION	LMG	MJM
E		02.12.07	ISSUED FOR BID PURPOSES ONLY	LMG	MJM
MARK	DATE	REVISION		BY	APPROVED
OWNER:					
CLIENT:					
CONSULTANT:					
PROJECT:					
TITLE:					
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DATE: APRIL 2007		SCALE: AS SHOWN	
SIGNATURE		DESIGN BY: MI		PROJECT NO.: GR3762	
DATE		DRAWN BY: JAS		FILE NO: 37620013	
SEAL		CHECKED BY: MI		REVISION NO: 0	
		REVIEWED BY: LMG		DRAWING NO: 13	
		APPROVED BY: MJM			

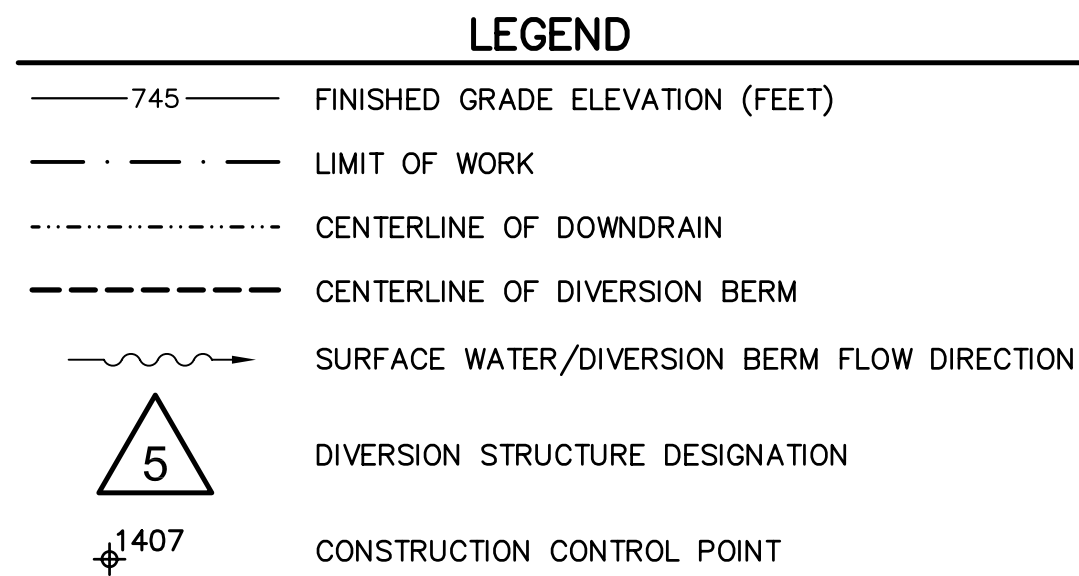
CERTIFIED-FOR-CONSTRUCTION



10 PLAN
DIVERSION STRUCTURE LAYOUT
SCALE: 1"=100'
XREF: 3762X031.DWG

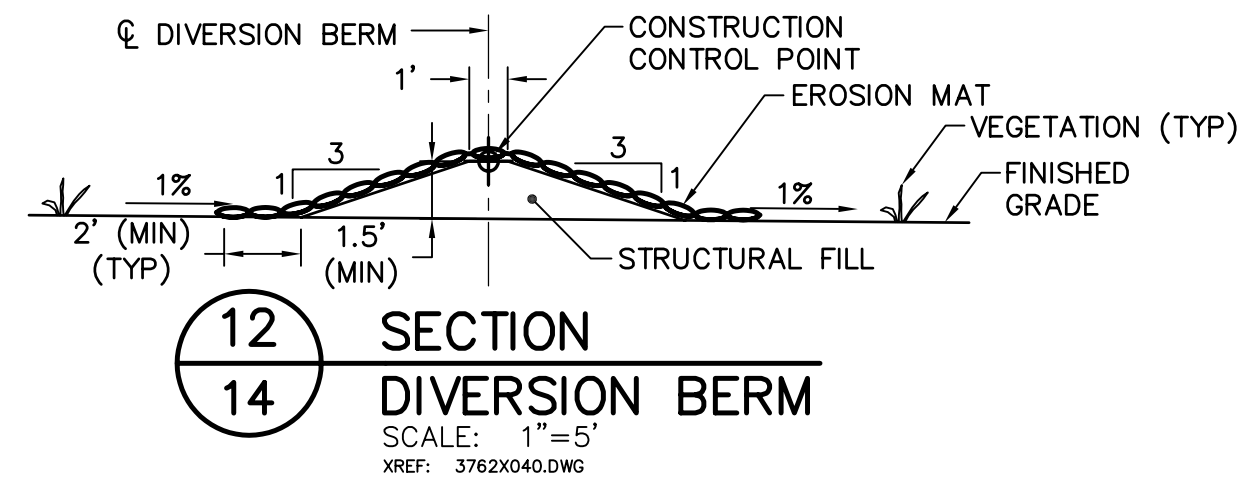


A 14 SECTION
DIVERSION BERM OUTLET
SCALE: 1"=2'
XREF: 3762X041.DWG

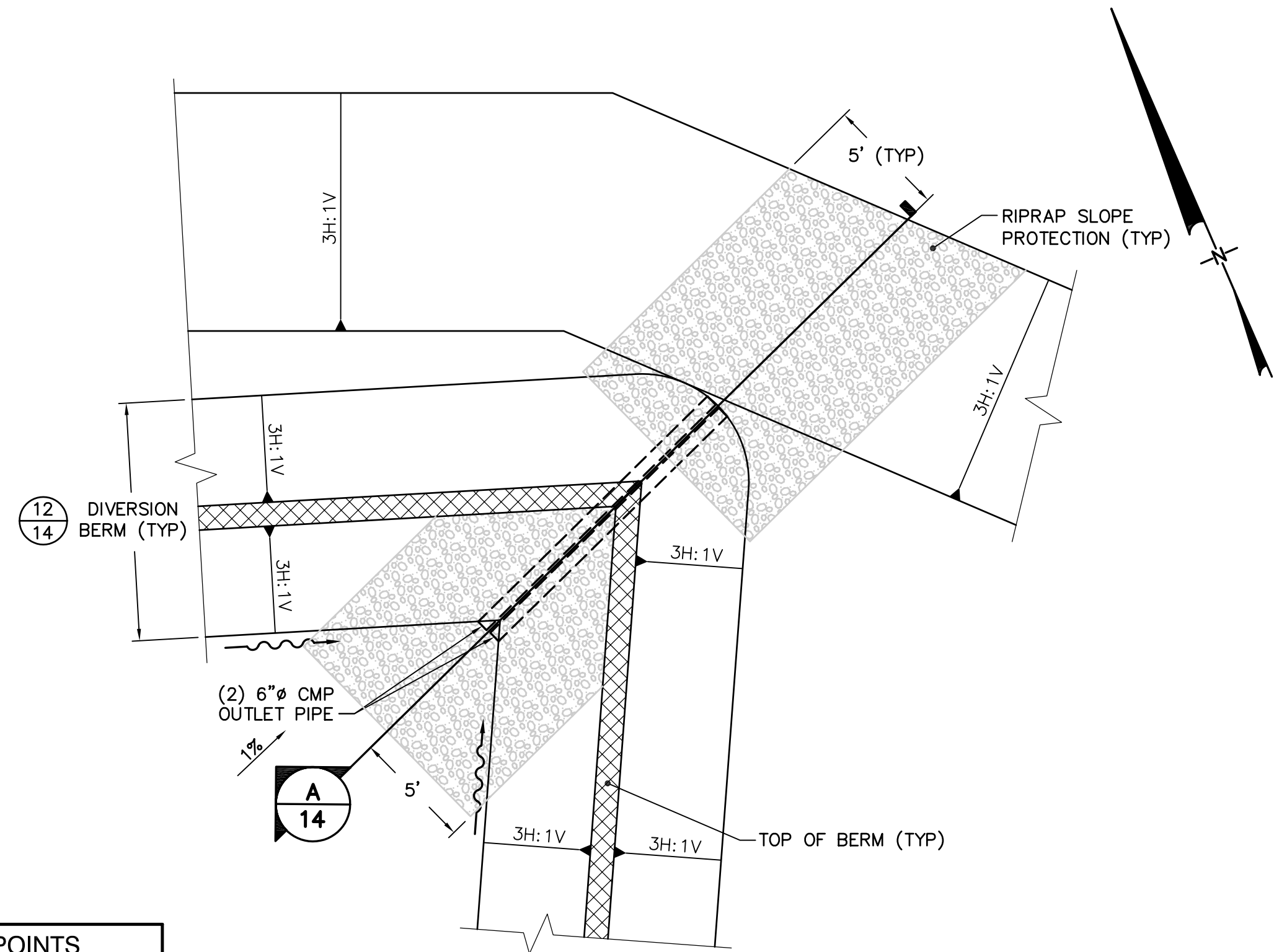


DIVERSION BERM AND CMP OUTLET PIPE DATA	
DIVERSION STRUCTURE DESIGNATION	NUMBER OF OUTLET PIPES
5	2
6	2
7	2
9	2
10	2
11	2
12	4
13	2

LANDFILL 3 CONTROL POINTS CENTERLINE OF DIVERSION BERM AND DOWNDRAIN		
POINT NUMBER	NORTHING	EASTING
1400	1180754.10	669525.79
1401	1180743.39	669338.17
1402	1180724.71	669152.35
1403	1180557.58	669511.28
1404	1180522.23	669530.01
1405	1180481.03	669541.99
1406	1180186.91	669522.03
1407	1180266.85	669338.70
1408	1180504.95	669285.67
1409	1180648.15	669223.55
1410	1180460.45	669295.08
1411	1180728.91	669144.09
1412	1180715.64	669101.03
1413	1180706.14	669086.27
1414	1180666.88	669044.67
1415	1180554.86	668941.27
1416	1180414.36	668811.58
1417	1180373.95	668736.89
1418	1180351.66	668718.99
1419	1180344.66	668709.24
1420	1180154.21	668858.62
1421	1180100.46	668883.00
1422	1180052.85	668892.67
1423	1179992.16	668896.68
1424	1179872.97	668897.32
1425	1179724.71	668898.12
1426	1180333.72	668714.05
1427	1180307.40	668682.56
1428	1180245.75	668643.49
1429	1180129.98	668592.24
1430	1180099.22	668583.50
1431	1180088.11	668578.21
1432	1180024.37	668558.03
1433	1179950.00	668533.99
1434	1179886.17	668523.39
1435	1180081.05	669153.97
1436	1180051.52	669093.96
1437	1180079.81	669034.47
1438	1180080.38	669053.98
1439	1179908.55	669183.08
1440	1179736.72	669512.18
1441	1179882.49	669220.95
1442	1179917.34	669293.68
1443	1180052.12	669407.86
1444	1179708.86	669293.66
1445	1179636.77	669291.48



12 14 SECTION
DIVERSION BERM
SCALE: 1"=5'
XREF: 3762X040.DWG

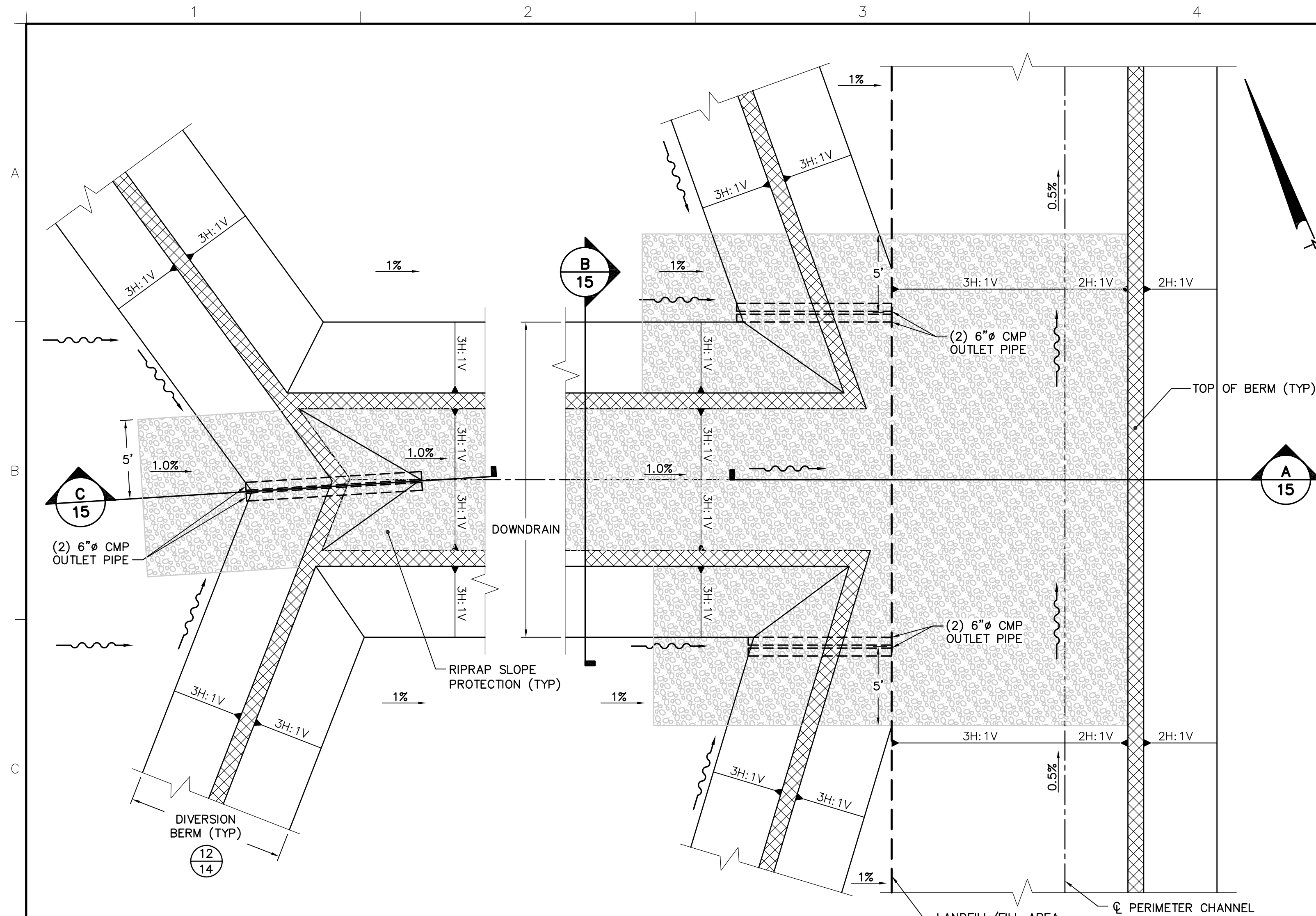


11 4 PLAN
DIVERSION BERM INTERSECTION AND PIPE OUTLET
SCALE: 1"=5'
XREF: 3762X041.DWG

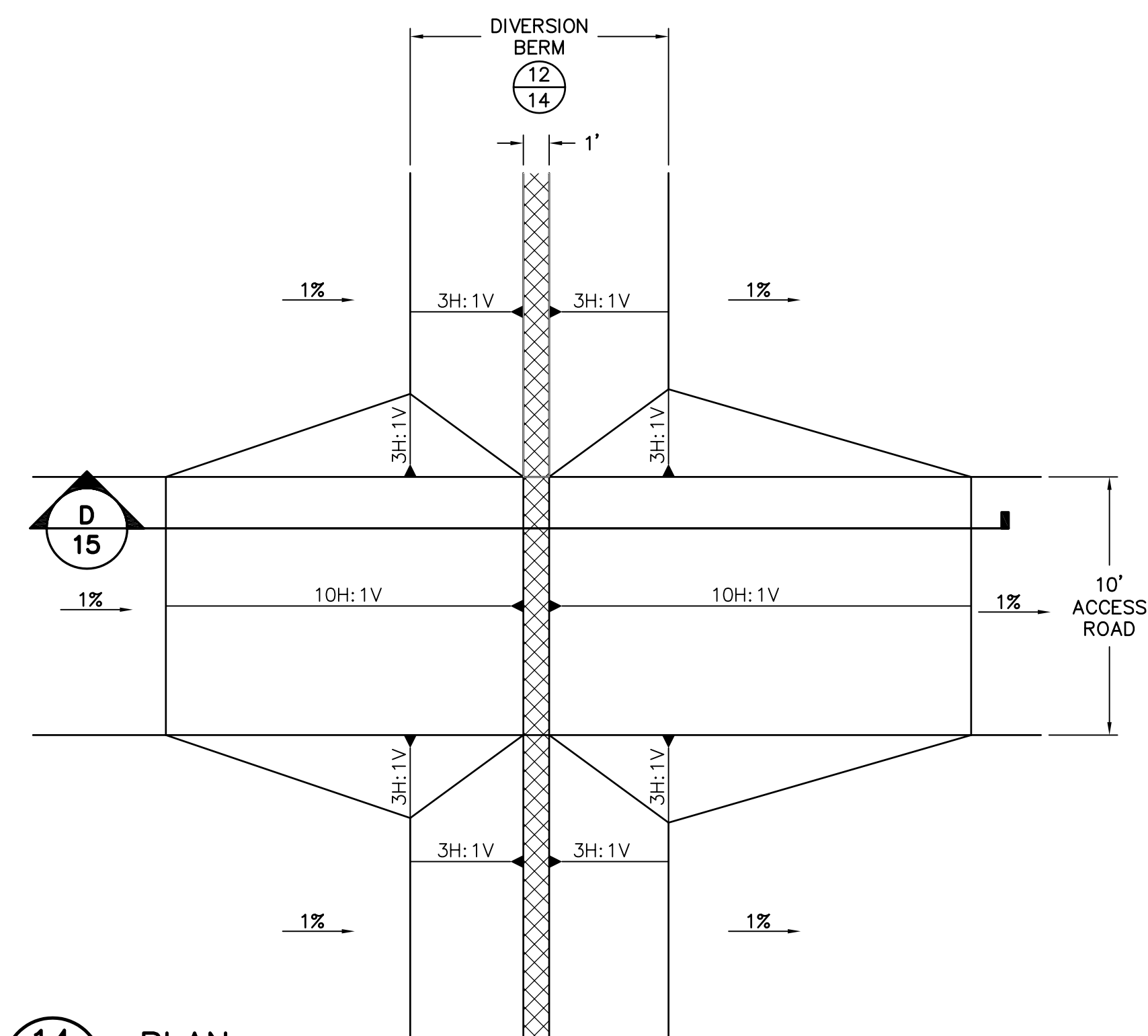
- NOTES:
- EARTHWORK SHALL BE IN ACCORDANCE WITH SPECIFICATION 02200.
 - RIPRAP SHALL BE IN ACCORDANCE WITH SPECIFICATION 02209.
 - GEOTEXTILE SHALL BE IN ACCORDANCE WITH SPECIFICATION 02720.
 - CMP OUTLET PIPE SHALL BE IN ACCORDANCE WITH SPECIFICATION 11002.
 - TOPSOIL AND VEGETATION SHALL BE IN ACCORDANCE WITH SPECIFICATION 02204.
 - EROSION MAT SHALL BE IN ACCORDANCE WITH SPECIFICATION 02204.

0	04.02.07	CERTIFIED-FOR-CONSTRUCTION	LMG	MJM
E	02.12.07	ISSUED FOR BID PURPOSES ONLY	LMG	MJM
MARK	DATE	REVISION	BY	APPROVED
OWNER:		ANNISTON-CALHOUN COUNTY FORT MCCLELLAN DEVELOPMENT JOINT POWERS AUTHORITY		
CLIENT:		Matrix Environmental Services, L.L.C. 180 Headquarters Drive, Bldg. 61 Anniston, Alabama 36205		
CONSULTANT:		GeoSYNTec CONSULTANTS 1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144-3694 USA PHONE: 678.202.9500; FAX: 678.202.9501		
PROJECT:		LANDFILL COVER SYSTEMS LANDFILL 3 AND FILL AREA NW OF REILLY AIRFIELD McCLELLAN, ANNISTON, ALABAMA		
TITLE:		SURFACE WATER MANAGEMENT DETAILS I		
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DATE: APRIL 2007	SCALE: AS SHOWN	
SIGNATURE		DESIGN BY: MI	PROJECT NO.: GR3762	
DATE		DRAWN BY: JAS	FILE NO: 37620014	
		CHECKED BY: MI	REVISION NO: 0	
		REVIEWED BY: LMG	DRAWING NO:	14
		APPROVED BY: MJM		

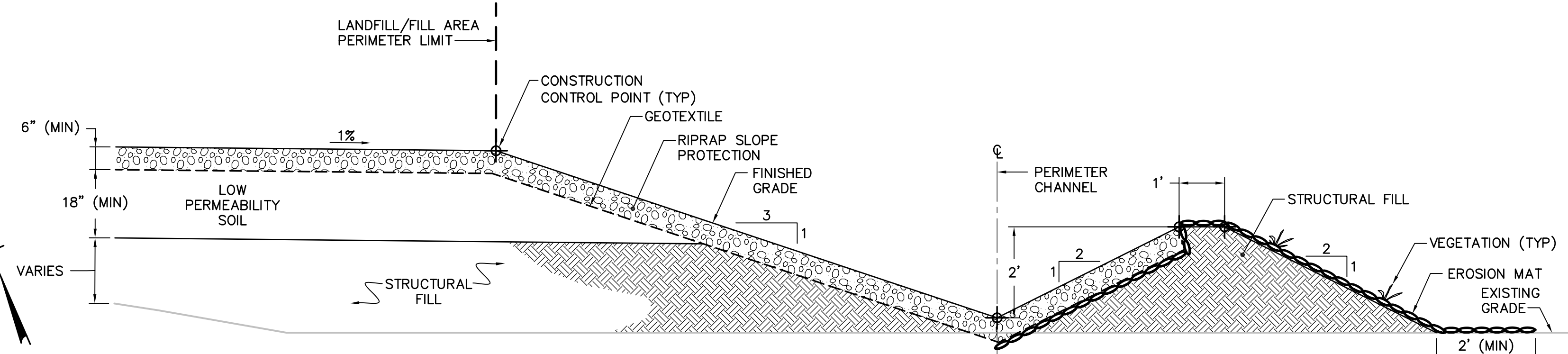
CERTIFIED-FOR-CONSTRUCTION



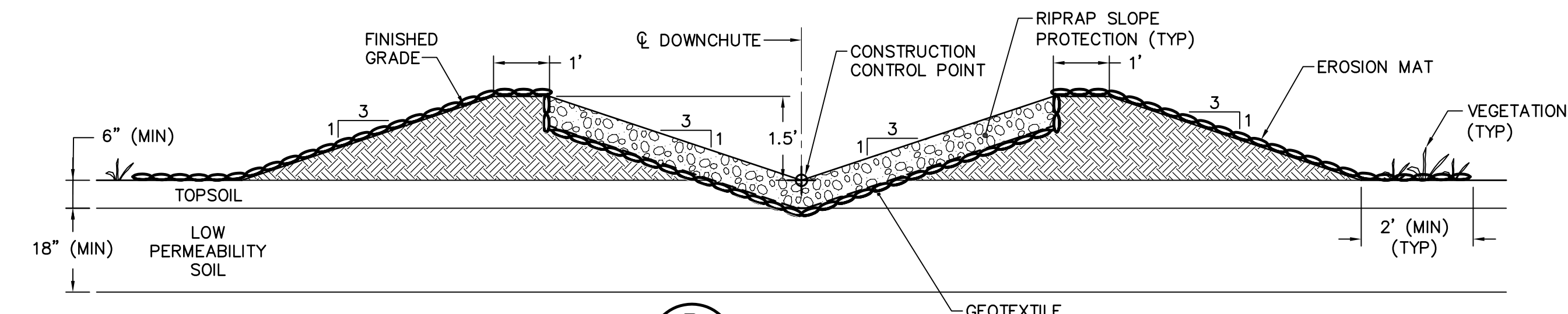
13
4 **PLAN**
DOWNDRAIN AND DIVERSION
BERM INTERSECTION
SCALE: 1"=5'
XREF: 3762X041.DWG



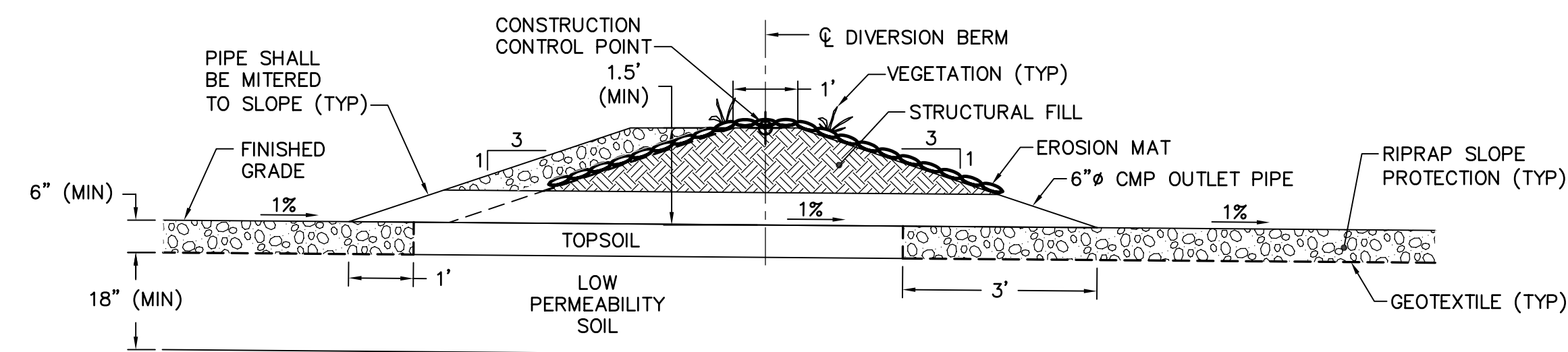
14
4 **PLAN**
LANDFILL NO. 3 ACCESS ROAD OVER DIVERSION BERM
SCALE: 1"=5'
XREF: 3762X040.DWG



A
15 **SECTION**
DOWNDRAIN AND PERIMETER CHANNEL
SCALE: 1"=2'
XREF: 3762X041.DWG



B
15 **SECTION**
DOWNDRAIN
SCALE: 1"=2'
XREF: 3762X040.DWG



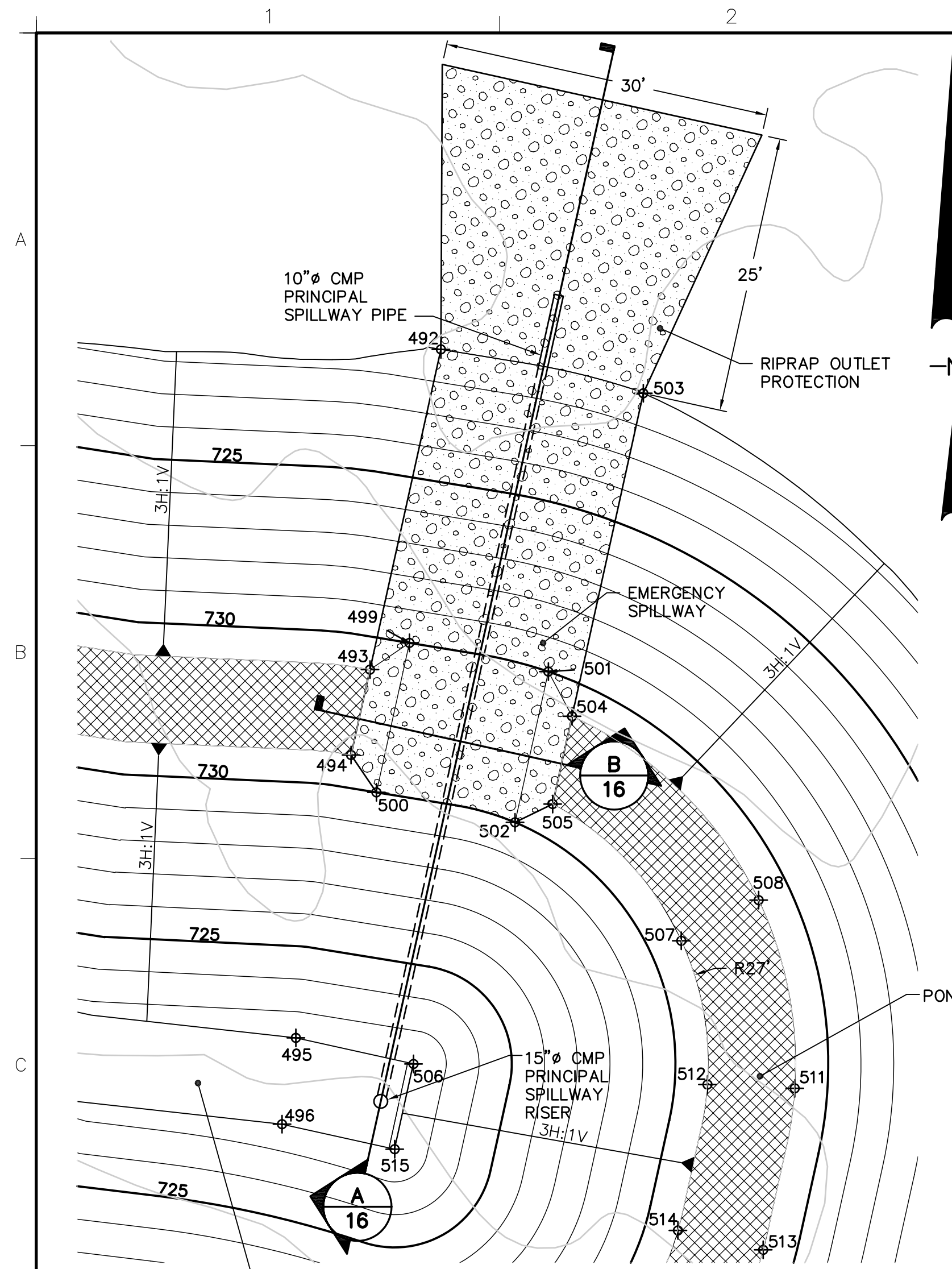
C
15 **SECTION**
DIVERSION BERM OUTLET AT DOWNDRAIN
SCALE: 1"=2'
XREF: 3762X040.DWG

NOTES:

1. EARTHWORK SHALL BE IN ACCORDANCE WITH SPECIFICATION 02200.
2. ROAD AGGREGATE SHALL BE IN ACCORDANCE WITH SPECIFICATION 02208.
3. RIPRAP SHALL BE IN ACCORDANCE WITH SPECIFICATION 02209.
4. GEOTEXTILE SHALL BE IN ACCORDANCE WITH SPECIFICATION 02720.
5. CMP OUTLET PIPE SHALL BE IN ACCORDANCE WITH SPECIFICATION 11002.
6. TOPSOIL AND VEGETATION SHALL BE IN ACCORDANCE WITH SPECIFICATION 02204.
7. EROSION MAT SHALL BE IN ACCORDANCE WITH SPECIFICATION 02209.

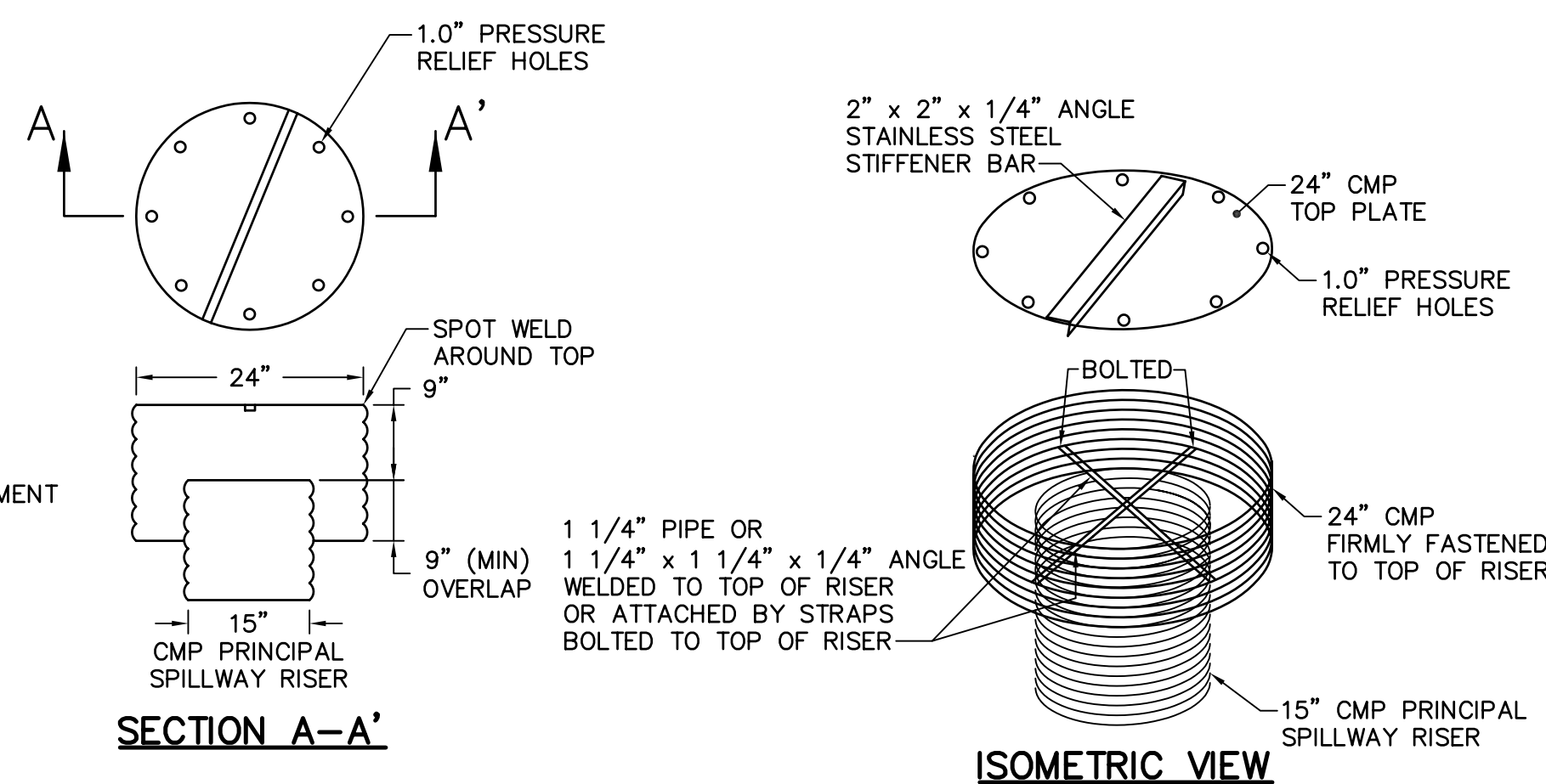
0	04.02.07	CERTIFIED-FOR-CONSTRUCTION	LMG	MJM
E	02.12.07	ISSUED FOR BID PURPOSES ONLY	LMG	MJM
MARK	DATE	REVISION	BY	APPROVED
OWNER:		ANNISTON-CALHOUN COUNTY FORT McCLELLAN DEVELOPMENT JOINT POWERS AUTHORITY		
CLIENT:		Matrix Environmental Services, LLC 180 Headquarters Drive, Bldg. 61 Anniston, Alabama 36205		
CONSULTANT:		GeoSYNTec CONSULTANTS 1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144-3694 USA PHONE: 678.202.9500; FAX: 678.202.9501		
PROJECT:		LANDFILL COVER SYSTEMS LANDFILL 3 AND FILL AREA NW OF REILLY AIRFIELD McCLELLAN, ANNISTON, ALABAMA		
TITLE:		SURFACE WATER MANAGEMENT DETAILS II		
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DATE: APRIL 2007	SCALE: AS SHOWN	
SIGNATURE		DESIGN BY: MI	PROJECT NO.: GR3762	
DATE		DRAWN BY: JAS	FILE NO: 37620015	
SEAL		CHECKED BY: MI	REVISION NO: 0	
		REVIEWED BY: LMG	DRAWING NO:	
		APPROVED BY: MJM	15	

CERTIFIED-FOR-CONSTRUCTION

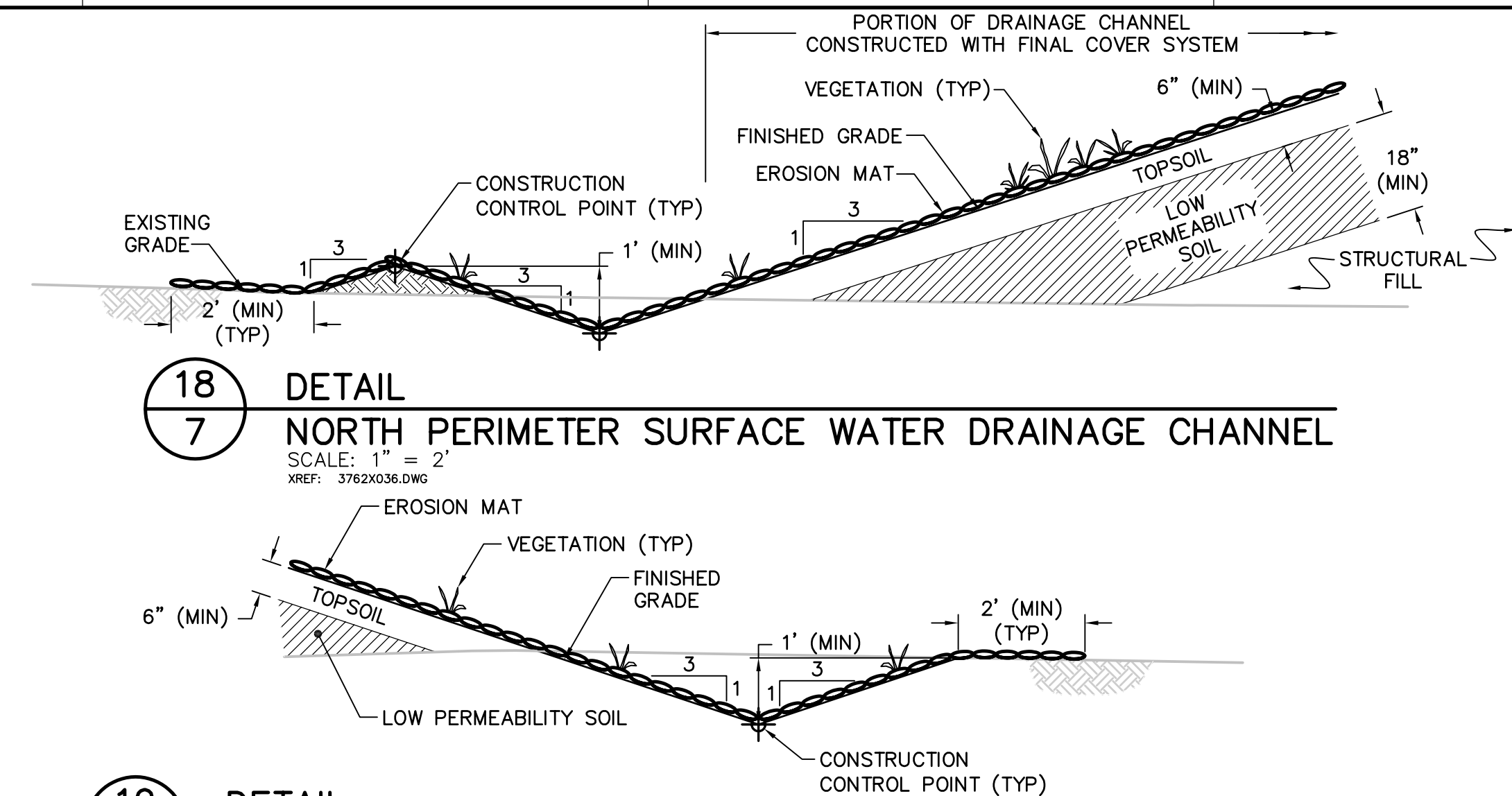


15
7 **PLAN**
SURFACE WATER/SEDIMENT DETENTION POND
SCALE: 1"=10'
XREF: 3762X030.DWG

16
7 **DETAIL**
NORTHEAST PERIMETER SURFACE WATER DRAINAGE CHANNEL
SCALE: 1" = 2'
XREF: 3762X036.DWG

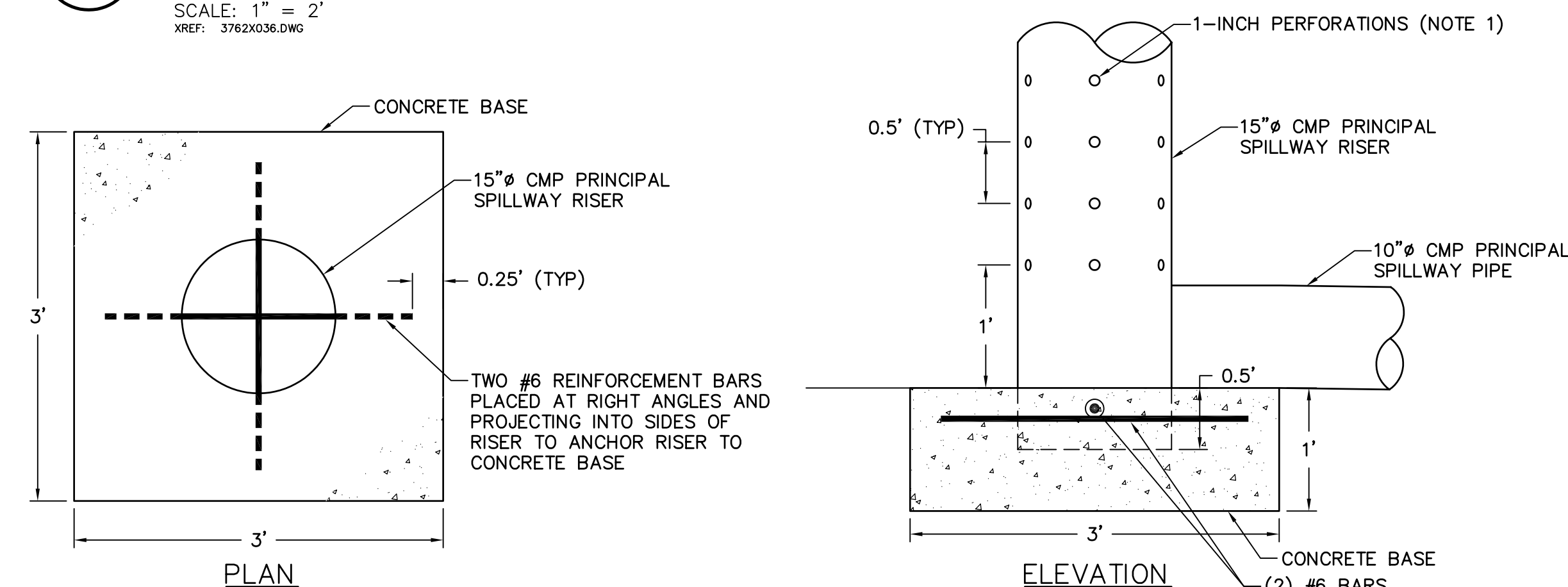


17
16 **DETAIL**
CONCENTRIC TRASH RACK AND ANTI-VORTEX DEVICE
SCALE: N.T.S.
XREF: 3762X033.DWG



18
7 **DETAIL**
NORTH PERIMETER SURFACE WATER DRAINAGE CHANNEL
SCALE: 1" = 2'
XREF: 3762X036.DWG

19
8 **DETAIL**
SOUTHEAST PERIMETER SURFACE WATER DRAINAGE CHANNEL
SCALE: 1" = 2'
XREF: 3762X036.DWG



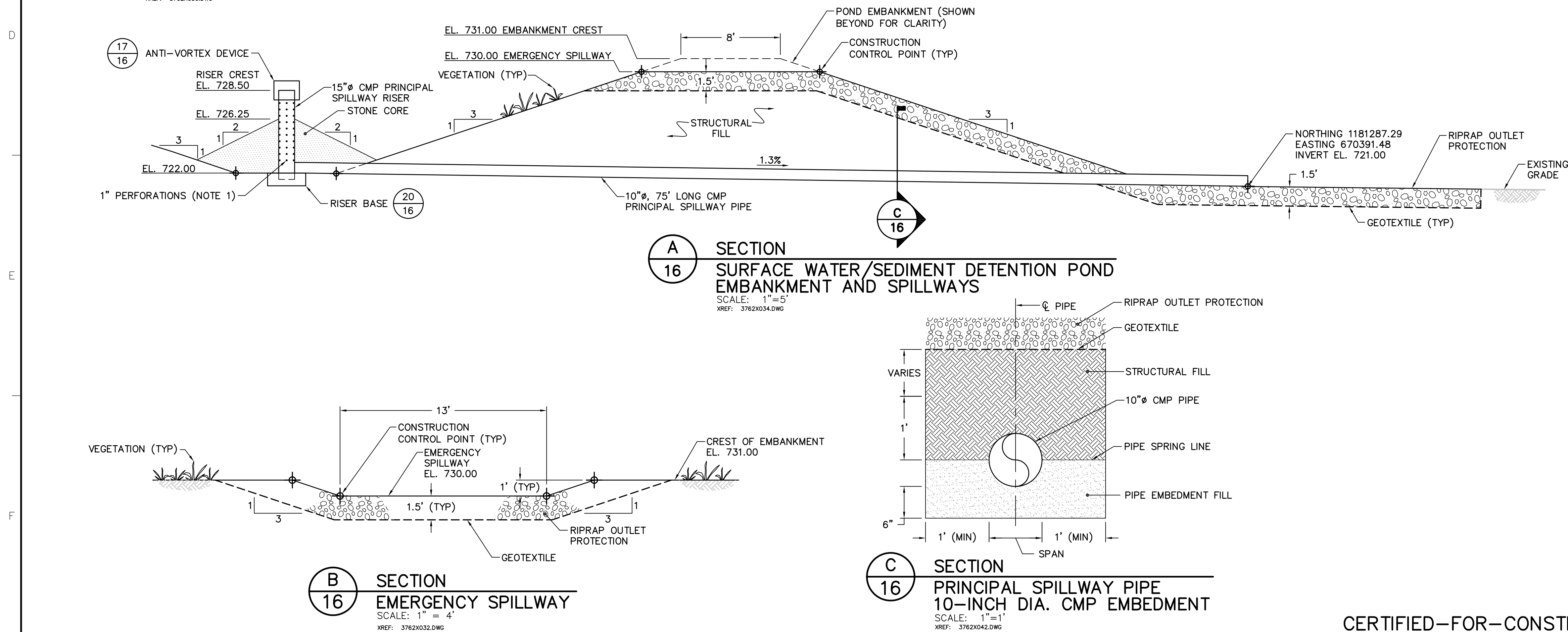
20
16 **DETAIL**
PRINCIPAL SPILLWAY RISER BASE
SCALE: 1" = 1'
XREF: 3762X037.DWG

NOTES:

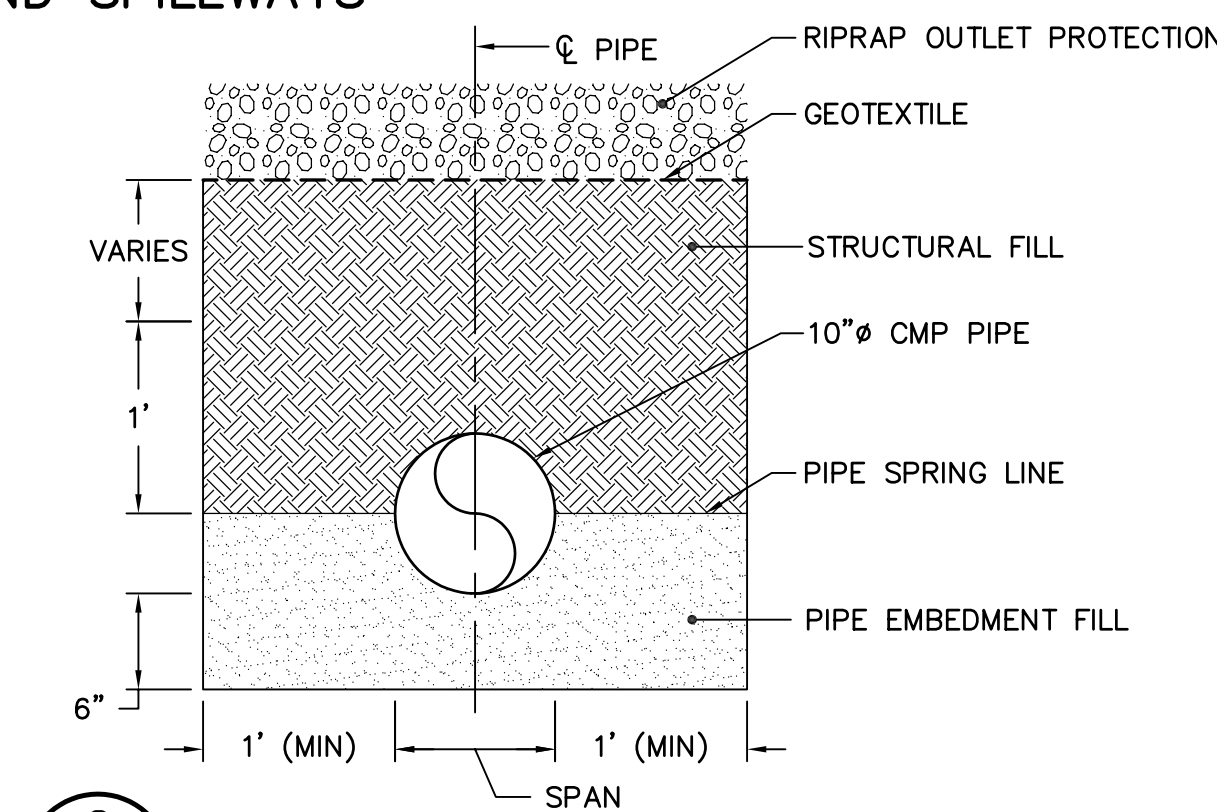
- PERFORATIONS SHALL BE EVENLY DISTRIBUTED OVER THE RISER PIPE IN 10 ROWS AND 6 COLUMNS. VERTICAL SEPARATION BETWEEN PERFORATIONS SHALL BE 6 INCHES O.C. HORIZONTAL SEPARATION SHALL BE EQUALLY SPACED AROUND CIRCUMFERENCE.
- EARTHWORK SHALL BE IN ACCORDANCE WITH SPECIFICATION 02200.
- STONE CORE AND RIPRAP SHALL BE IN ACCORDANCE WITH SPECIFICATION 02209.
- GEOTEXTILE SHALL BE IN ACCORDANCE WITH SPECIFICATION 02720.
- TOPSOIL AND VEGETATION SHALL BE IN ACCORDANCE WITH SPECIFICATION 02204.
- EROSION MAT SHALL BE IN ACCORDANCE WITH SPECIFICATION 02209.
- SPILLWAY RISER, SPILLWAY PIPE, AND PIPE EMBEDMENT FILL SHALL BE IN ACCORDANCE WITH SPECIFICATION 11002.
- CONSTRUCTION CONTROL IS PROVIDED ON DRAWING 18.

0	04.02.07	CERTIFIED-FOR-CONSTRUCTION	LMG	MJM
E	02.12.07	ISSUED FOR BID PURPOSES ONLY	LMG	MJM
MARK	DATE	REVISION	BY	APPROVED
OWNER:				
CLIENT:				
CONSULTANT:				
PROJECT:				
TITLE:				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.				
SIGNATURE	DATE	SEAL	DATE	SEAL
DATE:	APRIL 2007	SCALE:	AS SHOWN	
DESIGN BY:	MI	PROJECT NO.:	GR3762	
DRAWN BY:	JAS	FILE NO.:	37620016	
CHECKED BY:	MI	REVISION NO.:	0	
REVIEWED BY:	LMG	DRAWING NO.:		
APPROVED BY:	MJM			

CERTIFIED-FOR-CONSTRUCTION



A
16 **SECTION**
SURFACE WATER/SEDIMENT DETENTION POND EMBANKMENT AND SPILLWAYS
SCALE: 1"=5'
XREF: 3762X034.DWG



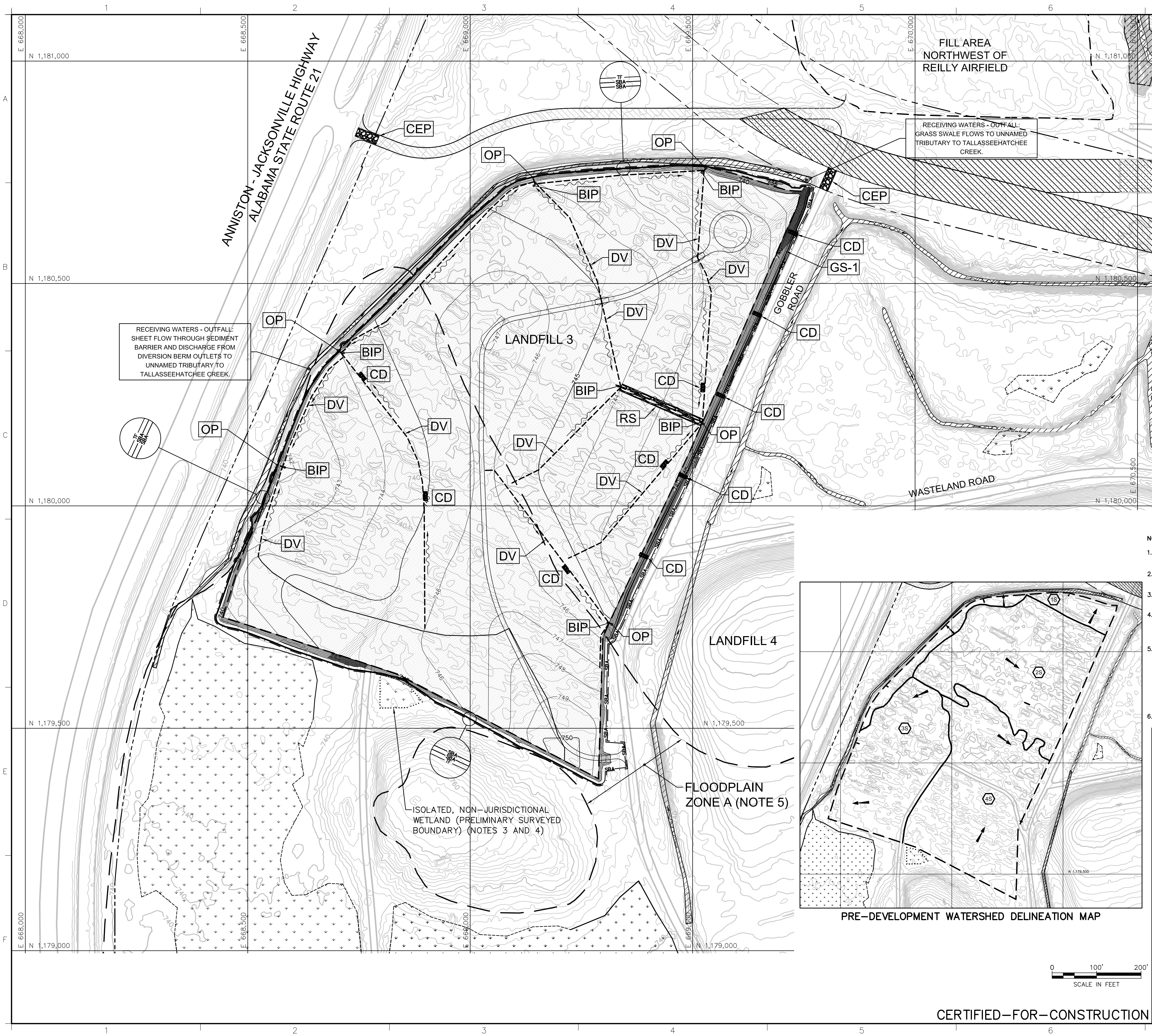
C
16 **SECTION**
PRINCIPAL SPILLWAY PIPE 10-INCH DIA. CMP EMBEDMENT
SCALE: 1"=1'
XREF: 3762X042.DWG

B
16 **SECTION**
EMERGENCY SPILLWAY
SCALE: 1" = 4'
XREF: 3762X032.DWG

LANDFILL 3 CONTROL POINTS FINAL COVER SYSTEM					LANDFILL 3 CONTROL POINTS FINAL COVER SYSTEM					LANDFILL 3 CONTROL POINTS FINAL COVER SYSTEM					FILL AREA NW OF REILLY AIRFIELD WASTE PLACEMENT					FANWR SURFACE WATER/SEDIMENT DETENTION POND					FILL AREA NW OF REILLY AIRFIELD FINAL COVER SYSTEM					FILL AREA NW OF REILLY AIRFIELD FINAL COVER SYSTEM					FILL AREA NW OF REILLY AIRFIELD FINAL COVER SYSTEM					FILL AREA NW OF REILLY AIRFIELD ACCESS ROADS & WALKING PATHS				
POINT NUMBER	NORTHING	EASTING	ELEVATION		POINT NUMBER	NORTHING	EASTING	ELEVATION		POINT NUMBER	NORTHING	EASTING	ELEVATION		POINT NUMBER	NORTHING	EASTING	ELEVATION		POINT NUMBER	NORTHING	EASTING	ELEVATION		POINT NUMBER	NORTHING	EASTING	ELEVATION		POINT NUMBER	NORTHING	EASTING	ELEVATION		POINT NUMBER	NORTHING	EASTING	ELEVATION						
1000	1179386.51	669288.36	748.00		1125	1180744.93	669269.92	743.44		1250	1180396.15	668923.98	746.00		200	1181562.56	669867.40	740.82		441	1181342.48	670122.07	728.00		600	1181631.10	669748.40	727.44		724	1180970.28	670286.89	751.00		831	1180854.43	670433.43	747.00						
1001	1179423.64	669289.51	748.52		1126	1180752.26	669269.35	741.07		1251	1180432.85	668938.72	746.00		201	1181546.69	669858.78	741.00		442	1181338.62	670115.05	728.00		601	1181640.12	669770.54	729.56		725	1180944.10	670284.50	751.50		832	1180853.48	670483.43	742.00						
1002	1179410.04	669243.58	750.00		1127	1180748.67	669204.37	743.00		1252	1180377.59	669204.37	747.00		202	1181457.84	669809.65	742.00		443	1181334.57	670107.07	731.01		602	1181597.02	669735.17	728.95		726	1180927.05	670284.94	751.50		833	1181377.22	669900.85	744.05						
1003	1179425.52	669246.37	750.00		1128	1180756.04	669320.21	741.00		1253	1180350.02	669041.15	747.00		203	1181426.89	669791.28	742.36		444	1181337.76	670151.18	730.40		603	1181636.84	669788.45	732.31		727	1180902.05	670285.59	751.00		834	1181355.70	669883.49	744.33						
1004	1179425.24	669214.66	750.00		1129	1180751.30	669234.19	742.11		1254	1180425.48	669070.56	747.00		204	1181401.82	669772.01	742.67		445	1181333.97	670148.23	732.00		604	1181558.64	669732.54	732.31		728	1180873.50	670285.81	750.43		835	1181368.11	669893.51	744.17						
1005	1179440.87	669315.82	746.00		1130	1180760.00	669373.54	739.21		1255	1180398.11	669068.65	747.00		205	1181379.94	669746.95	743.00		446	1181332.37	670147.04	732.00		605	1181627.29	669808.86	736.00		729	1180873.35	670301.23	750.46		836	1181357.32	669870.93	744.40						
1006	1179441.66	669290.05	748.58		1131	1180751.41	669421.45	742.07		1256	1180358.14	669160.32	746.00		206	1181329.58	669680.61	743.81		447	1181322.93	670137.61	727.45		606	1181569.82	669767.74	736.00		730	1180901.61	670301.79	751.00		837	1181364.03	669852.38	744.46						
1007	1179445.59	669245.87	750.00		1132	1180749.49	669420.56	739.48		1257	1180318.17	669251.98	745.00		207	1181310.72	669673.58	744.00		448	1181317.34	670131.88	727.45		607	1181520.00	669731.31	736.00		731	1180925.43	670309.36	751.50		838	1181370.25	669836.77	744.51						
1008	1179444.96	669176.89	750.00		1133	1180756.82	669468.52	742.04		1258	1180278.18	669343.53	744.00		208	1181270.52	669667.76	744.35		449	1181310.62	670125.64	730.46		608	1181612.76	669829.20	738.00		732	1180935.70	670301.77	751.50		839	1181366.09	669820.49	744.65						
1009	1179479.32	669291.20	748.70		1134	1180766.05	669468.64	739.04		1259	1180248.23	669439.67	743.00		209	1181234.33	669667.98	744.63		450	1181324.63	670169.77	730.16		609	1181537.86	669775.62	738.00		733	1180954.61	670333.11	751.00		840	1181308.81	669761.81	745.46						
1010	1179478.97	669240.09	750.00		1135	1180755.44	669509.57	742.04		1260	1180409.00	669509.81	743.00		210	1181198.44	669686.54	744.79		451	1181319.51	670167.65	732.00		610	1181471.56	669724.52	738.00		734	1181001.52	670350.59	750.00		841	1181232.71	669731.25	746.24						
1011	1179477.88	669168.66	750.00		1136	1180764.70	669509.80	739.10		1261	1180408.69	669400.55	744.00		211	1181176.64	669706.79	744.83		452	1181317.60	670166.98	732.00		611	1181584.99	669855.44	741.00		735	1181074.39	670302.58	750.00		842	1181202.44	669734.11	746.46						
1012	1179468.53	669131.47	749.00		1137	1180741.83	669554.50	741.79		1262	1180401.89	669288.49	745.00		212	1181157.75	669715.55	744.93		453	1181304.67	670158.52	726.87		612	1181512.98	669803.33	741.00		736	1181071.31	670302.58	750.00		843	1181177.89	669752.05	746.54						
1013	1179525.35	669292.60	748.46		1138	1180757.18	669552.45	737.41		1263	1180408.24	669176.80	746.00		213	1181229.89	669773.70	744.00		454	1181298.04	670154.04	726.86		613	1181439.12	669745.24	741.00		737	1181134.14	670308.02	746.00		844	1181128.50	669796.82	749.44						
1014	1179527.07	669271.74	749.00		1139	1180733.29	669592.88	741.39		1264	1180440.62	669296.82	745.00		214	1181307.72	669836.48	743.00		455	1181291.53	670149.96	729.43		614	1181414.97	669707.75	741.00		738	1181126.45	670338.39	746.00		845	1181108.03	669808.43	750.58						
1015	1179525.49	669141.26	749.00		1140	1180745.98	669595.81	737.05		1265	1180463.17	669422.25	744.00		215	1181385.56	669899.27	742.00		456	1181321.97	670210.69	727.00		615	1181566.90	669869.76	742.77		739	1181146.35	670335.37	745.11		846	1181067.37	669823.40	751.70						
1016	1179492.11	669086.06	748.00		1141	1180718.08	669466.59	740.88		1266	1180480.65	669525.01	743.00		216	1181445.68	669898.48	741.22		457	1181310.39	670207.55	731.00		616	1181506.69	669837.05	743.45		740	1181143.56	670355.87	744.87		847	1181033.07	669840.94	751.71						
1017	1																																											

F

O	04.02.07	CERTIFIED—FOR—CONSTRUCTION	LMC	MJM
E	02.12.07	ISSUED FOR BID PURPOSES ONLY	LMC	MJM
MARK	DATE	REVISION	BY	APPROVED
OWNER:		 ANNISTON-CALHOUN COUNTY FORT MCCLELLAN DEVELOPMENT JOINT POWERS AUTHORITY		
CLIENT:		 Matrix Environmental Services, L.L.C. <i>Integrating Environmental Solutions</i> Matrix Environmental Services, L.L.C. 180 Headquarters Drive, Bldg. 61 Anniston, Alabama 36205		
CONSULTANT:		 GeoSYNTEC CONSULTANTS 1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144-3694 USA PHONE: 678.202.9500; FAX: 678.202.9501		
PROJECT:		LANDFILL COVER SYSTEMS LANDFILL 3 AND FILL AREA NW OF REILLY AIRFIELD MCCLELLAN, ANNISTON, ALABAMA		
TITLE:		TITLE SHEET		
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED. _____ SIGNATURE _____ DATE		DATE: APRIL 2007 SCALE: AS SHOWN DESIGN BY: VSC PROJECT NO.: GR3762 DRAWN BY: JAS FILE NO: 3762ES001 CHECKED BY: GG REVISION NO: 0 REVIEWED BY: LMC DRAWING NO: APPROVED BY: MJM ES-1		



LEGEND

730

EXISTING GROUND ELEVATION (FEET) (NOTE 1)

745

FINISHED GRADE ELEVATION (FEET)

EXISTING ROAD

LANDFILL/FILL AREA PERIMETER LIMIT

McCLELLAN PROPERTY BOUNDARY

LIMIT OF WORK

INDUSTRIAL ACCESS ROAD RIGHT-OF-WAY LIMIT

INDUSTRIAL ACCESS ROAD CENTERLINE

CENTERLINE OF DOWNDRAIN

CENTERLINE OF DIVERSION BERM

JURISDICTIONAL WETLAND (SURVEYED BOUNDARY) (NOTE 2)

JURISDICTIONAL WETLAND (PRELIMINARY SURVEYED BOUNDARY) (NOTE 2)

JURISDICTIONAL WATERS OF THE UNITED STATES (NOTE 2)

AREA FOR CONTRACTOR HAULING

SURFACE WATER/DIVERSION BERM FLOW DIRECTION

EROSION CONTROL LEGEND

CEP

CONSTRUCTION EXIT PAD

1

ES-5

SBA

SEDIMENT BARRIER – TYPE A

3

ES-5

TF

TREE PROTECTION FENCE

2

ES-5

BIP

BLOCK AND GRAVEL INLET PROTECTION

15

ES-6

OP

OUTLET PROTECTION

9

ES-6

CD

CHECK DAM

4

ES-6

RS

RIPRAP-LINED SWALE

11

ES-6

GS-1

GRASS SWALE

10

ES-6

DV

DIVERSION

14

ES-6

MU/TS/PS

MULCHING/TEMPORARY SEEDING/PERMANENT SEEDING

12

ES-6

13

ES-6

13

ES-6

ECB/TS/PS

EROSION CONTROL BLANKET/TEMPORARY SEEDING/PERMANENT SEEDING

8

ES-6

13

ES-6

13

ES-6

NOTES:

1. TOPOGRAPHY DEVELOPED USING LIDAR TECHNOLOGY PERFORMED BY OPTIMAL GEOMATICS, INC. [2227 DRAKE AVENUE SW, BUILDING 14, HUNTSVILLE, ALABAMA 35805, TELEPHONE 256.882.7788] ON 17 DECEMBER 2005.

2. LOCATIONS OF JURISDICTIONAL WETLANDS AND WATERS WERE OBTAINED FROM "FINAL WETLAND DETERMINATION, LANDFILLS AND FILL AREAS," BY SHAW ENVIRONMENTAL, INC. DATED 17 NOVEMBER 2003.

3. WETLAND DELINEATION CONDUCTED BY GEOSYNTEC CONSULTANTS IN APRIL AND MAY 2006. WETLAND BOUNDARIES ARE PRELIMINARY PENDING U.S. ARMY CORPS OF ENGINEERS JURISDICTIONAL DETERMINATION.

4. IMPACTS TO WETLAND SHALL BE KEPT TO A MINIMUM DURING LANDFILL 3 FINAL COVER SYSTEM CONSTRUCTION. CONTRACTOR MAY ELECT TO ADJUST THE PROPOSED FINAL GRADES IN THE VICINITY OF THE WETLAND IN ORDER TO MINIMIZE DISTURBANCES. CHANGES TO PROPOSED FINAL GRADES SHALL BE APPROVED BY THE CONSTRUCTION MANAGER.

5. PORTIONS OF THE LF3 AREA ARE LOCATED WITHIN THE FLOODPLAIN (ZONE A) AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) NUMBER 0100130166C DATED 3 FEBRUARY 1993. THE LF3 PROPOSED FINAL COVER SYSTEM DESIGN WILL ELEVATE THE AREA BY FILL, AND THE LANDFILL AREA WILL NO LONGER BE INUNDATED BY THE BASE FLOOD; THEREFORE, REMOVING IT FROM THE FLOODPLAIN. FLOODPLAIN MODELING WAS PERFORMED BY GEOSYNTEC FOR THE CURRENT TOPOGRAPHY AND THE PROPOSED FINAL COVER SYSTEM DESIGN WITH THE 100-YEAR DISCHARGES IN CAVE CREEK PUBLISHED BY FEMA AND IT WAS DEMONSTRATED THAT THE PROPOSED DESIGN WILL NOT RAISE THE BASE FLOOD ELEVATION BY MORE THAN ONE FOOT, AS REQUIRED BY THE CITY OF ANNISTON AND FEMA. DETAILS OF THE FLOODPLAIN ANALYSIS ARE PROVIDED IN DEVELOPMENT PERMIT APPLICATION PACKAGE TO THE CITY OF ANNISTON.

6. EXISTING GROUND COVER IS CLEARED WITH 6-INCH TREE STUBS REMAINING ON THE INTERIOR AND FORESTED ON THE EXTERIOR.

0	04.02.07	CERTIFIED-FOR-CONSTRUCTION	LMG	MJM
E	02.12.07	ISSUED FOR BID PURPOSES ONLY	LMG	MJM
MARK	DATE	REVISION	BY	APPROVED
OWNER:				
CLIENT:				
CONSULTANT:				
PROJECT:				
TITLE:				

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

SIGNATURE

DATE

SEAL

DATE: APRIL 2007

SCALE: 1" = 100'

DESIGN BY: VSC

PROJECT NO.: GR3762

DRAWN BY: JAS

FILE NO: 3762ES002

CHECKED BY: GG

REVISION NO: 0

REVIEWED BY: LMG

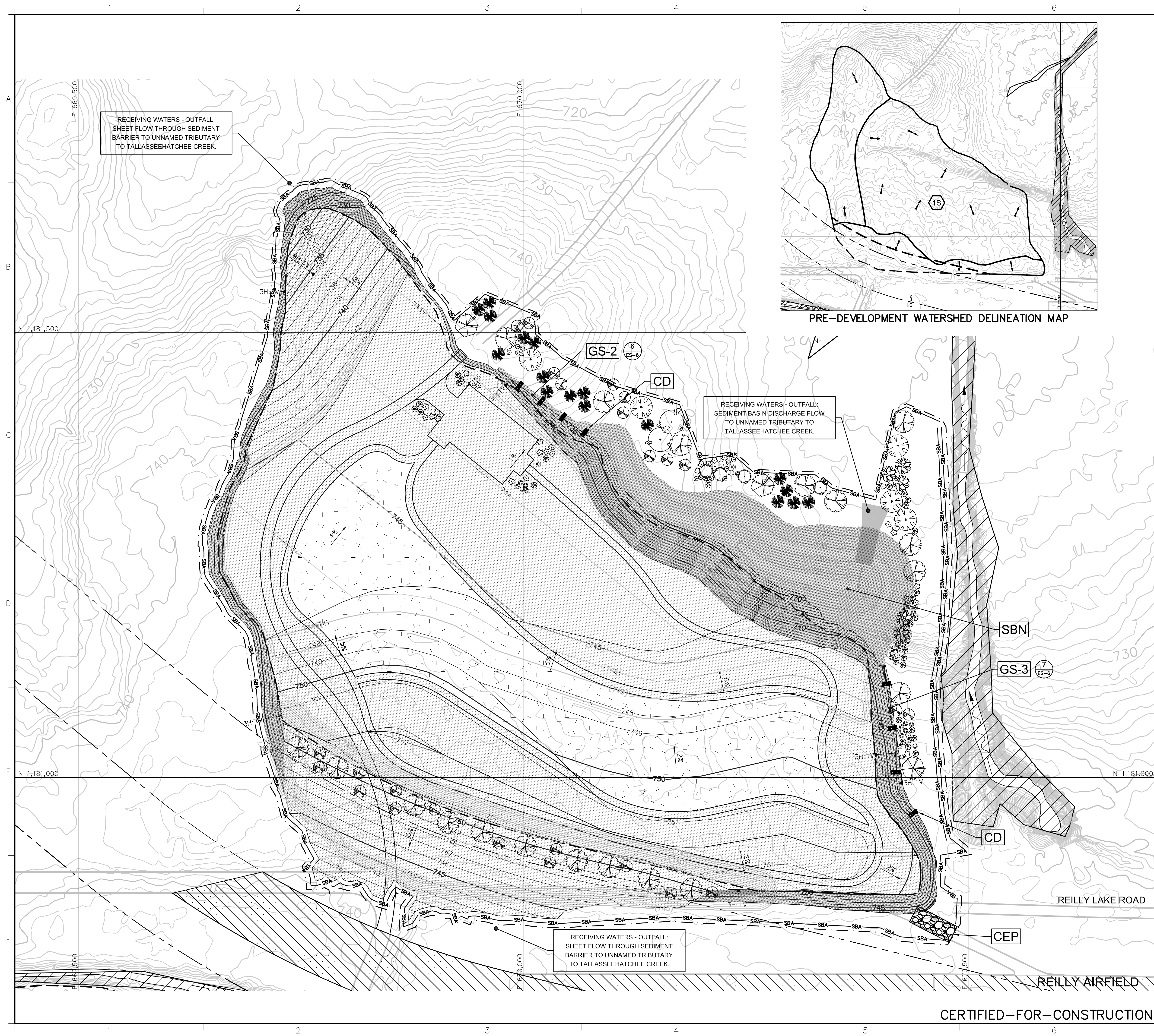
DRAWING NO:

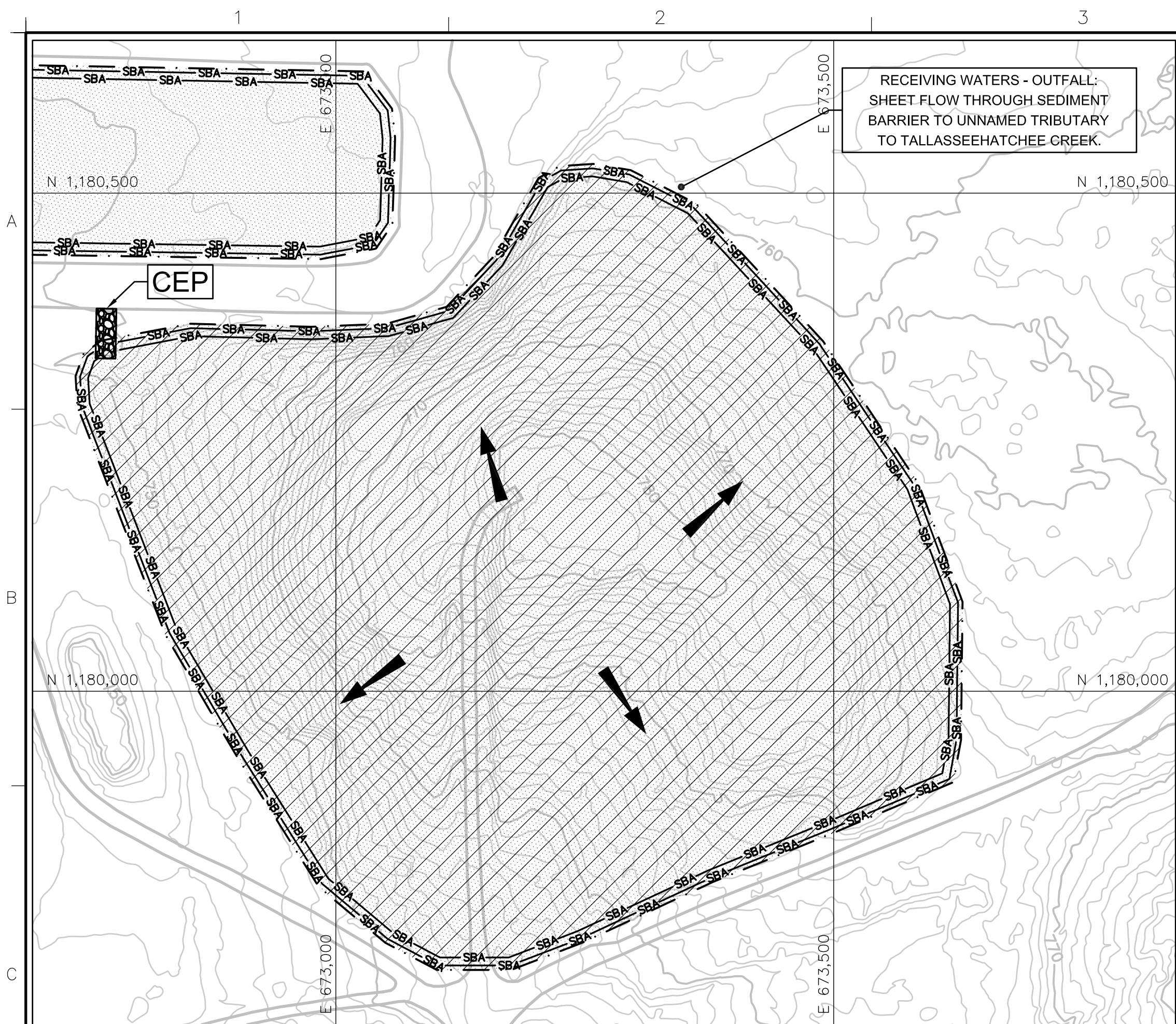
APPROVED BY: MJM

ES-2

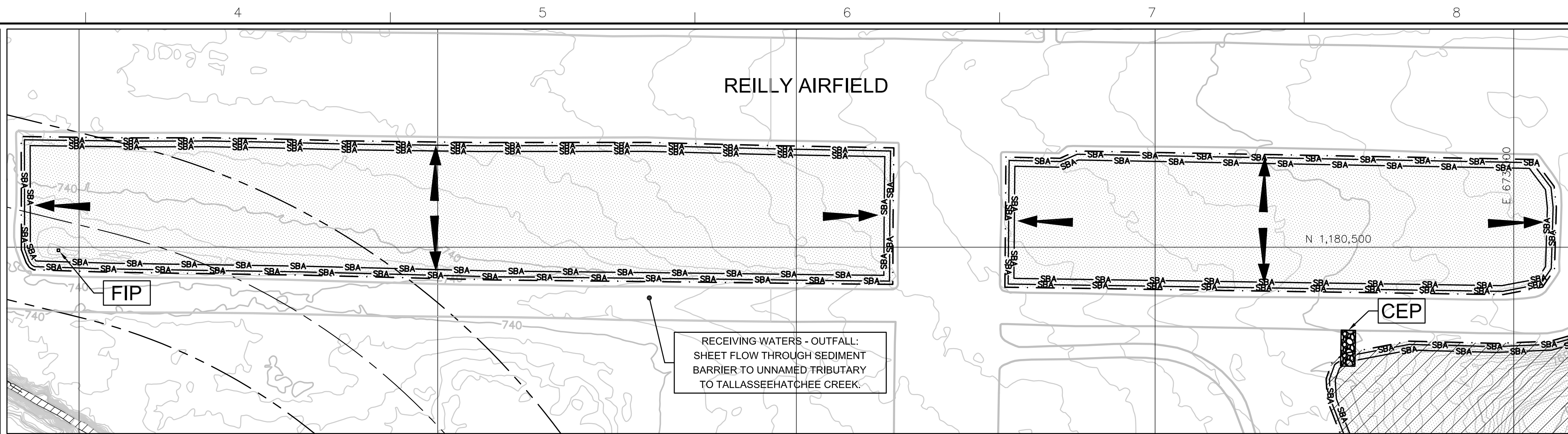
PRE-DEVELOPMENT WATERSHED DELINEATION MAP

CERTIFIED-FOR-CONSTRUCTION





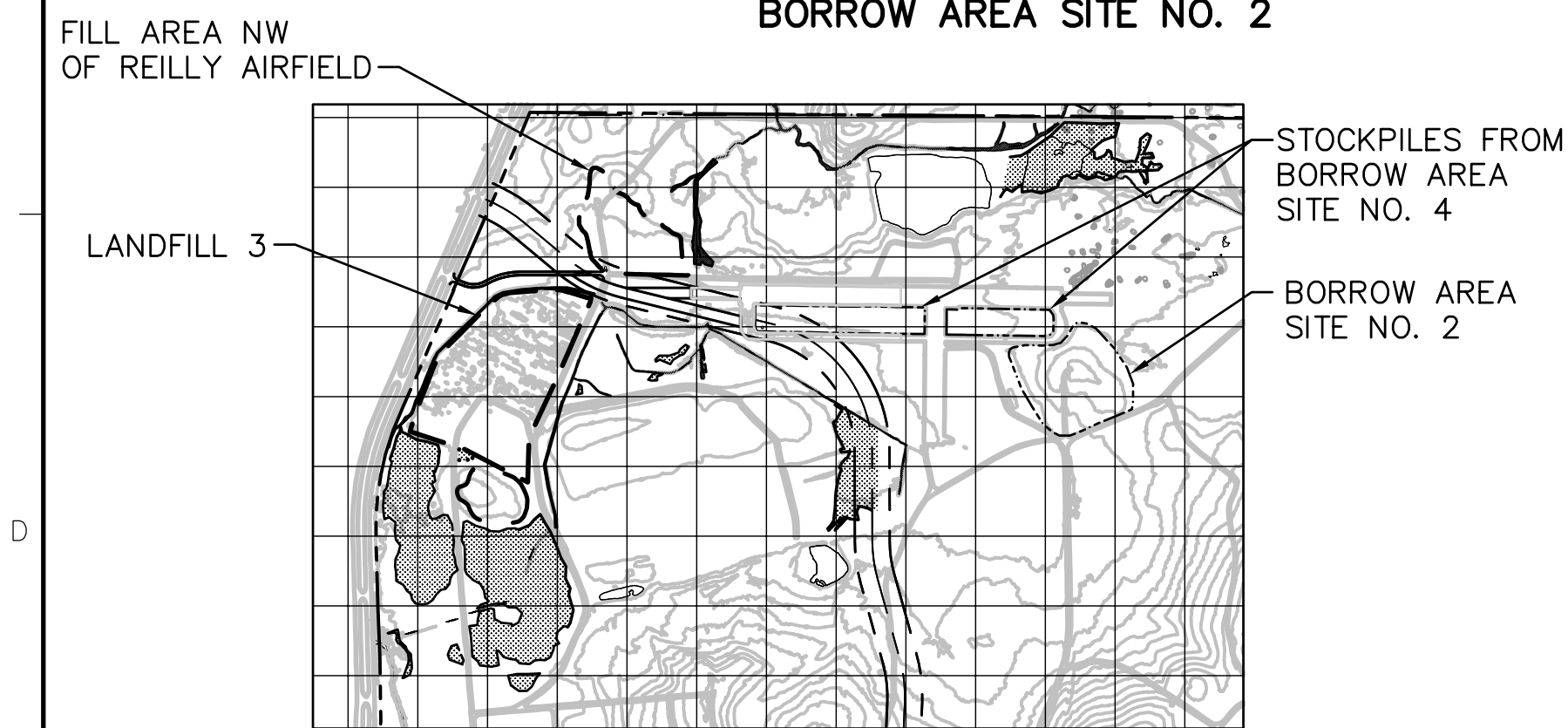
BORROW AREA SITE NO. 2



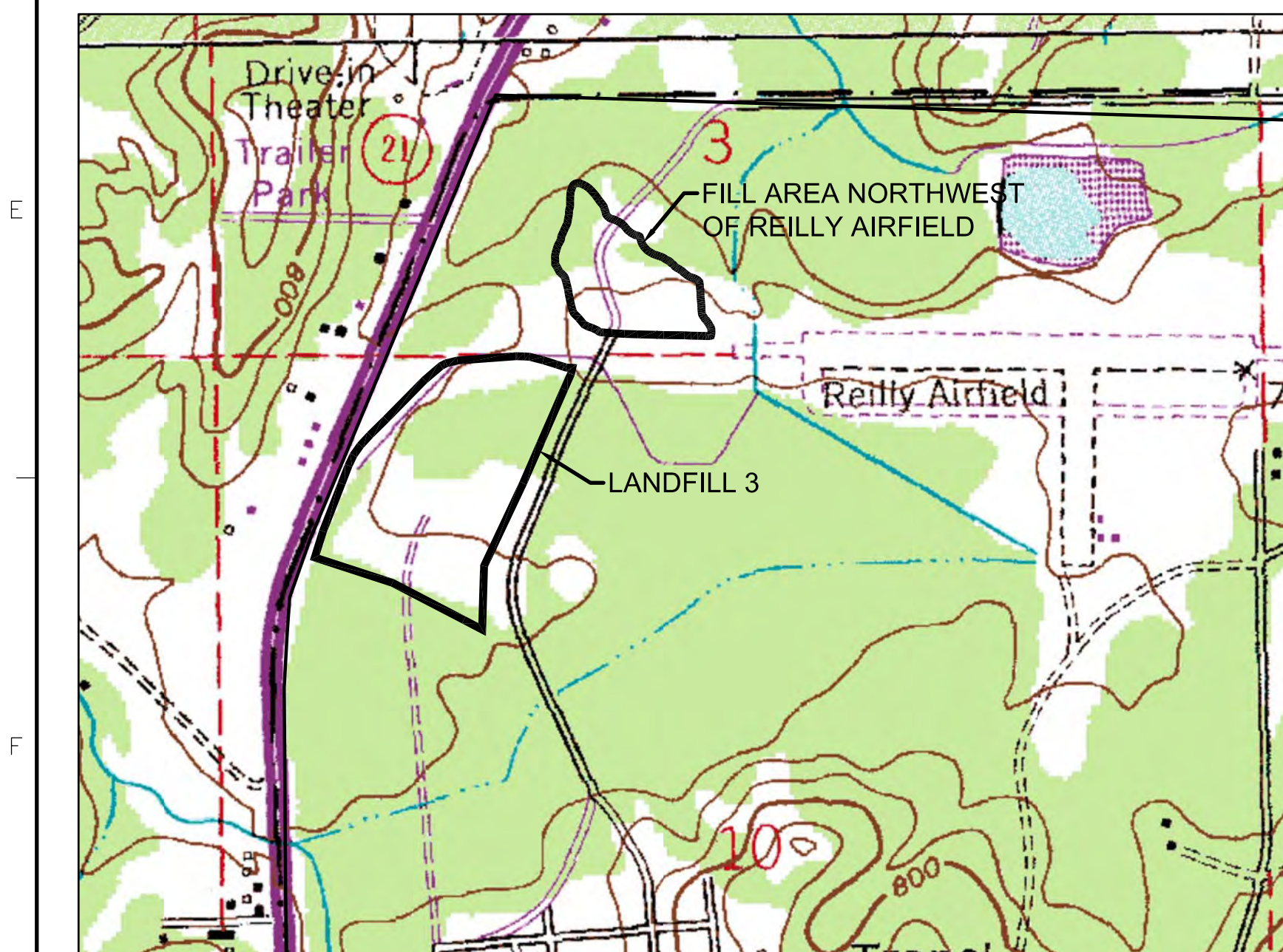
STOCKPILES FROM BORROW AREA SITE NO. 4

LEGEND	
	EXISTING GROUND ELEVATION (FEET) (NOTE 1)
	FINISHED GRADE ELEVATION (FEET)
	EXISTING ROAD
	LANDFILL/FILL AREA PERIMETER LIMIT
	McCLELLAN PROPERTY BOUNDARY
	LIMIT OF WORK
	INDUSTRIAL ACCESS ROAD RIGHT-OF-WAY LIMIT
	INDUSTRIAL ACCESS ROAD CENTERLINE

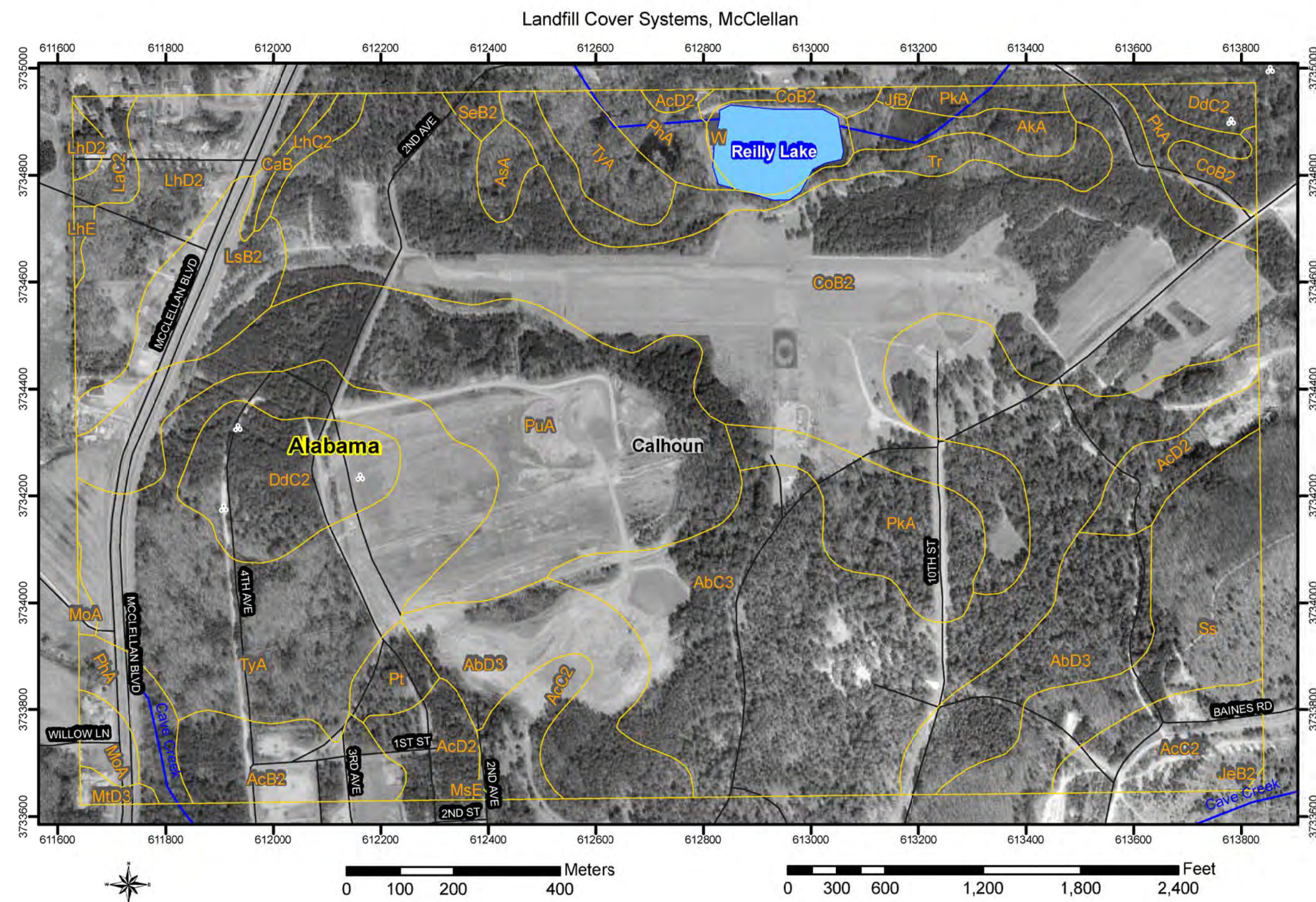
EROSION CONTROL LEGEND	
CEP	CONSTRUCTION EXIT PAD
SBA	SEDIMENT BARRIER - TYPE A
DV	DIVERSION
CD	CHECK DAM
MU/TS/PS	MULCHING/TEMPORARY SEEDING/PERMANENT SEEDING
SBB/BFB	SEDIMENT BARRIER - TYPE B/BRUSH/FABRIC BARRIER (NOTE 3)
FIP	FABRIC DROP INLET PROTECTION



KEY MAP



USGS TOPOGRAPHIC MAP



SOIL SURVEY OF CALHOUN COUNTY, ALABAMA

MAP UNIT LEGEND SUMMARY

Map Unit Symbol	Map Unit Name
AbC3	Aniston gravelly clay loam, 6 to 10 percent slopes, severely eroded
AbD3	Aniston gravelly clay loam, 10 to 15 percent slopes, severely eroded
AcB2	Aniston and Allen gravelly loams, 2 to 6 percent slopes, eroded
AcC2	Aniston and Allen gravelly loams, 6 to 10 percent slopes, eroded
AcD2	Aniston and Allen gravelly loams, 10 to 15 percent slopes, eroded
AKA	Arklin silt loam, 0 to 2 percent slopes
AsA	Arklin and Stendal soils, local alluvium, 0 to 2 percent slopes
CaB	Camp silt loam, 2 to 6 percent slopes
CoB2	Cumtard gravelly loam, 2 to 6 percent slopes, eroded
DdC2	Decatur and Cumberland loams, 6 to 10 percent slopes, eroded
JbB2	Jefferson gravelly fine sandy loam, 2 to 9 percent slopes, eroded
JbB	Jefferson stony fine sandy loam, 0 to 10 percent slopes
LaC2	Landsburg cherry silt loam, 6 to 10 percent slopes, eroded
LhC2	Leche-Montevillo soils, 2 to 10 percent slopes, eroded
LhD2	Leche-Montevillo soils, 10 to 15 percent slopes, eroded
LhE	Leche-Montevillo soils, 15 to 30 percent slopes
LsB2	Locust gravelly fine sandy loam, 2 to 6 percent slopes, eroded
MoA	Monogahela loam, 0 to 2 percent slopes
MsE	Montevillo shaly silt loam, 15 to 40 percent slopes
MdD3	Montevillo shaly silt loam, 10 to 40 percent slopes, severely eroded
PhA	Philo and Stendal fine sandy loams, 0 to 2 percent slopes
Pl	Pits, sand and gravel
PuA	Purdy silt loam, 0 to 2 percent slopes
SeB2	Squatchie gravelly fine sandy loam, 2 to 6 percent slopes, eroded
Ss	Stony rough land, sandstone
Tr	Terrace escarpments
TyA	Tyler silt loam, 0 to 2 percent slopes
W	Water

NOTES:

- TOPOGRAPHY DEVELOPED USING LIDAR TECHNOLOGY PERFORMED BY OPTIMAL GEOMATICS, INC. [2227 DRAKE AVENUE SW, BUILDING 14, HUNTSVILLE, ALABAMA 35805, TELEPHONE 256.882.7788] ON 17 DECEMBER 2005.
- LOCATIONS OF JURISDICTIONAL WETLANDS AND WATERS WERE OBTAINED FROM "FINAL WETLAND DETERMINATION, LANDFILLS AND FILL AREAS," BY SHAW ENVIRONMENTAL, INC. DATED 17 NOVEMBER 2003.
- SEDIMENT BARRIER-TYPE B AND/OR BRUSH/FABRIC BARRIERS SHALL BE INSTALLED IN ROWS ON THE DISTURBED AREAS (I.E., GRUBBED AND/OR GRADED) WITHIN BORROW AREA SITE NO. 2 AT THE LENGTH INTERVAL FOR THE LAND SLOPE IN ACCORDANCE WITH TABLE SB-2 SLOPE LIMITATIONS FOR SILT FENCE, IN THE SB SEDIMENT BARRIER DETAIL.
- EXISTING GROUND COVER ON BORROW AREA SITE NO. 2 IS MOSTLY CLEARED WITH 6-INCH TREE STUBS REMAINING.
- EXISTING GROUND COVER ON STOCKPILES FROM BORROW AREA SITE NO. 4 IS ASSUMED TO BE GRASSED FROM TEMPORARY AND PERMANENT STABILIZATION MEASURES IMPLEMENTED BY OTHERS.

0	04.02.07	CERTIFIED-FOR-CONSTRUCTION	LMG	MJM
E	02.12.07	ISSUED FOR BID PURPOSES ONLY	LMG	MJM
MARK	DATE	REVISION	BY	APPROVED
OWNER:			ANNISTON-CALHOUN COUNTY FORT McCLELLAN DEVELOPMENT JOINT POWERS AUTHORITY	
CLIENT:			Matrix Environmental Services, L.L.C. 180 Headquarters Drive, Bldg. 61 Anniston, Alabama 36205	
CONSULTANT:			1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144-3694 USA PHONE: 678.202.9500; FAX: 678.202.9501	
PROJECT:	LANDFILL COVER SYSTEMS LANDFILL 3 AND FILL AREA NW OF REILLY AIRFIELD McCLELLAN, ANNISTON, ALABAMA			
TITLE:	CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN BORROW AND STOCKPILE AREAS			
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DATE: APRIL 2007	SCALE: 1" = 100'	
SIGNATURE		DESIGN BY: VSC	PROJECT NO.: GR3762	
DATE		DRAWN BY: JAS	FILE NO: 3762ES004	
SEAL		CHECKED BY: GG	REVISION NO: 0	
		REVIEWED BY: LMG	DRAWING NO:	
		APPROVED BY: MJM		ES-4

CERTIFIED-FOR-CONSTRUCTION

CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP)

I. SITE DESCRIPTION

A. Project Description:

The former Fort McClellan (McClellan) is located in the foothills of the Appalachian Mountains of northeastern Alabama, near the cities of Anniston and Weaver in Calhoun County approximately 60 miles northeast of Birmingham, 75 miles northwest of Auburn, and 95 miles west of Atlanta, Georgia. Between 1917 and 1999, the US government and US Army utilized McClellan as a training base for various purposes. In September 1999, McClellan was closed under Base Realignment and Closure. As part of the Environmental Services Cooperative Agreement with the US Army, the Anniston Calhoun County Fort McClellan Joint Powers Authority (JPA) has agreed to complete environmental remediation efforts necessary at Landfill 3 (LF3) and the Fill Area Northwest of Reilly Airfield (FANWR). In addition, the JPA has also entered into Cleanup Agreement AL4210020562 with the Alabama Department of Environmental Management (ADEM).

Both LF3 and FANWR were operated by the US Army and closed prior to the existence of any Federal or state environmental regulations governing landfills. Neither LF3 nor the FANWR were closed with an engineered cap or cover system. To comply with the substantive intent of federal and state environmental regulations for historical (i.e., legacy) landfills, an engineered cover will be employed at both locations. This remedy will include the placement of a low-permeability cap designed to minimize future direct exposure to wastes which were disposed of at each location, promote and manage surface water drainage while controlling erosion, minimize leaching of contaminants to groundwater by limiting infiltration, and function with routine maintenance requirements typical of a cover system.

B. Project Schedule: See attached table for construction activities and approximate schedule.

C. Area Estimates and Site Characteristics:

1. Disturbed Area and Runoff Coefficients

AREA	DISTURBED ACRES	RUNOFF COEFFICIENT PRE-DEVELOPMENT	RUNOFF COEFFICIENT POST-DEVELOPMENT
LF3	24.17	0.15	0.17
FANWR	11.52	0.15	0.17
BORROW AREA SITE NO. 2	10.88	0.35	0.17
STOCKPILES FROM BORROW AREA SITE NO. 4	8.61	0.60	0.17
CONSTRUCTION ACCESS ROAD	0.47	0.15	0.95

- Soil Description – Soils in the LF3, FANWR, and borrow area locations are shown in the Soil Survey Map as obtained from the USDA Natural Resources Conservation Service Web Soil Survey accessed in November 2006. Generally, LF3 area soils consist of silt loam and loam; FANWR and stockpiles from BAS No. 4 soils consist of gravelly loam; and BAS No. 2 soils consist of gravelly clay loam. See attached map. Engineering properties, physical properties, and water feature information is provided with the Supporting Data of the CBMPP.
- Cultural Resources and Threatened and Endangered Species were previously investigated. No cultural resources or threatened and endangered species were identified within the limits of work. Reports and studies related to the Cultural Resource and Threatened and Endangered Species assessments can be found at the Fort McClellan Information Repositories. A Repository is located at the Anniston Calhoun County Public Library, 1st Flood, 108 East 10th Street, Anniston, Alabama 36201; point of contact: Ms. Sunny Addison, telephone 256.237.8501, extension 13.

D. Site Map of Construction Activities: See Construction Drawings and Construction Best Management Practices Plan Drawings attached.

E. Surface Water Identification:

- Receiving Waters – Unnamed tributary to Tallasseehatchee Creek.
- Locations of jurisdictional wetlands and waters were obtained from "Final Wetland Determination, Landfills and Fill Areas," by Shaw Environmental, Inc. dated 17 November 2003.
- Wetland delineation conducted by GeoSyntec Consultants in April and May 2006. Wetland boundaries are preliminary pending U.S. Army Corps of Engineers jurisdictional determination.
- 0.004 acres of isolated non-jurisdictional wetland (preliminary surveyed boundary) are proposed to be impacted during Landfill 3 final cover system construction. Impacts to the wetland shall be kept to a minimum during Landfill 3 final cover system construction. The Contractor may elect to adjust the proposed final grades in the vicinity of the wetland in order to minimize the disturbances. Changes to the proposed final grades shall be approved by the construction manager.

II. PRACTICES AND MEASURES

- Controls shall be implemented to prevent or reduce erosion on construction sites with existing or potential problems and minimize the impacts of hydrologic changes off-site, in accordance with the Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas and in compliance with Chapter 335–6–12 National Pollutant Discharge Elimination System (NPDES) Construction, Noncoal/Nonmetallic Mining and Dry Processing less than Five Acres, Other Land Disturbance Activities, and Areas Associated with these Activities, of the Alabama Department of Environmental Management, Administrative Code. The CBMPP indicates the minimum measures to be implemented, and the Contractor shall implement additional controls in response to field conditions.

B. Erosion and Sediment Controls

- Initial perimeter control BMPs shall consist of silt fence and tree protection fence.
- Access from outside McClellan shall be provided through a construction entrance to an existing construction access road from Alabama State Route 21 (Anniston-Jacksonville Highway). Access to each fill and borrow area shall be accessed from construction exit pads for each site area.
- Stabilization measures shall include permanent stabilization with grass and wildflower seeding, erosion control blankets, and tree planting. Temporary stabilization measures such as temporary seeding and mulching shall be initiated on all areas not undergoing active disturbance or active construction and progressive construction for longer than thirteen (13) days. Other intermediate stabilization techniques include surface roughening – texturing of graded soil surfaces to reduce sheet flow and improve surface water impoundment.
- Structural Controls to be used include:
 - check dams to be installed in constructed grass swales and the channels formed by diversion berms;
 - block inlet protection devices to be installed on the upstream end of the diversion berm outlets at LF3; and
 - silt fence and/or brush/fabric barriers to be installed on the disturbed areas of the Borrow Area Sites.

C. Storm Water Management

- At LF3, storm water shall be managed through a series of diversion berms, a rock swale, and a constructed grass swale.
- At FANWR, storm water shall be managed through two constructed grass swales and a sediment basin.

D. Grading/Cut and Fill

- Grading activities shall be kept to a minimum and shall not endanger adjoining properties.
- Fills shall not encroach upon natural watercourses.

E. Other Controls

- Construction Site Notice – The operator shall post and maintain signage at the front gate/entrance to adequately identify the site prior to commencement of and during NPDES construction until registration is properly terminated. The signage shall include the name of the registrant, "ADEM Registration" followed by the ADEM NPDES registration number, and facility or site name.
- Waste Disposal – All trash and construction debris from the site will be hauled to an approved landfill. No construction waste material will be buried on-site. All personnel will receive instruction regarding the correct procedure for waste disposal. Employee waste and other loose materials will be collected so as prevent the release of "floatables" during runoff events. Notices describing these practices will be posted in the construction office. The site superintendent will be responsible for seeing that these procedures are followed.
- Off-site Vehicle Tracking and Dust Generation– A stabilized construction exit will be installed, as detailed on the CBMPP. The paved streets adjacent to the construction areas shall be swept and scraped regularly to remove any excess mud, dirt, or rock tracked from the construction area.
- Sanitary Waste – All workers, throughout the life of the project will be provided portable sanitary units, for use. A licensed sanitary waste management contractor will regularly collect all sanitary waste from the portable units.
- Material Storage – All materials stored on-site should be stored in a neat, orderly manner in their appropriate containers and if possible, under a roof or other enclosure. If petroleum products are store on-site, secondary containment shall be provided.
- Spills – Contractor shall maintain a spill kit and other spill response measures in the Construction Trailer in a well-marked location. Where a significant spill/leak of toxic or hazardous material, or a visible oil sheen is observed in the vicinity of construction activities, the permittee is required to notify ADEM Field Operations immediately at (205) 942-6168 or (800) 843-0699 as soon as he/she has knowledge of the discharge. Additionally, if the spill has the potential to impact groundwater or other waters of the State, the permittee is required to notify the National Response Center (NRC) at (800) 424-8802 immediately.

F. Sequence of Construction Activities and Best Management Practices Implementation

1. Construct perimeter silt fence and construction exit/entrance.

- At LF3:
 - Construct grass swale and check dams.
 - Clear and grade. Install diversions, riprap-lined swale, check dams, and outlet protection upon grading in the vicinity.
- At FANWR:
 - Construct sediment basin.
 - Construct grass swales and check dams.
 - Clear and grade.
- At BAS No. 2:
 - Clear and grade areas to be borrowed from in phased approach. Only disturb areas to be immediately borrowed from.
 - Install sediment barrier and/or brush/fabric barriers in disturbed areas.
- At stockpiles from Borrow Area Site No. 4:
 - Clear and grade areas to be borrowed from in phased approach. Only disturb areas to be immediately borrowed from.
- Stabilize all disturbed areas.
- Remove temporary measures including silt fences upon completion of finished surfaces and landscape.

III. INSPECTIONS

A. Inspections shall be conducted in accordance with the Alabama Department of Environmental Management Field Operations Division – Water Quality Program, Chapter 335–6–12, including as follows:

- Daily inspections of portions of the construction project where active disturbance, work, or construction occurred, by the operator, a QCI, QCP, qualified person under the direct supervision of a QCP, other qualified consultant, or other qualified person.
- Monthly inspections by a QCI, QCP, or a qualified person under the direct supervision of a QCP.
- Inspections once every six months by a QCP or a qualified person under the direct supervision of a QCP.
- After any precipitation of 0.75 inches or greater in any 24-hour period since the last inspection, commencing as promptly as possible but no later than 48-hours after resuming or continuing active construction or disturbance and completed no later than 72-hours following the qualifying precipitation event.

- Inspections shall include the construction site and areas impacted by the construction site, including affected ditches and other stormwater conveyances, perennial and intermittent waterbody(s), streambanks, and floodplains.

- Inspection observations shall be documented on the inspection report and indicate if the BMPs being implemented are adequate and if additional or improved control measures are needed. Maintenance needs shall be noted.

- If the CBMPP is determined to be deficient, the CBMPP shall be revised and the revisions fully implemented within seven calendar days following the inspection unless an alternate schedule is approved in writing by the Department. Maintenance needs shall be addressed based on inspection observations.

- Inspection reports shall indicate the following minimum information: the site/facility name, location, registration number, sampling information of explanation of why sampling was not conducted; name of inspector, date and time of inspection, any deficiencies notes, any corrective action needed, and a proposed compliance schedule.

IV. MAINTENANCE

- Maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the CBMPP and additional controls implemented by the Contractor in response to field conditions shall be performed in accordance with schedules and procedures set forth in the Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas.

B. Erosion and Sediment Controls

- Perimeter silt fence maintenance shall include removal of accumulated sediment when it reaches a depth of ½ the height of the fence and repair or replacement of collapsed, torn, decomposed, or ineffective silt fence.
- Construction access and exit pad maintenance shall include removal of large chunks of mud and soil from the pad, removal of tracked out sediment onto public roadways, and top-dressing of clean stone to maintain effectiveness.
- Maintenance of stabilization measures includes regarding eroded areas under erosion control blankets, repairing, replacing, or reseeding dislocated or damaged erosion control blankets, reapplying mulch, and identifying and implementing corrective action for enhancing vegetative stands.
- Maintenance of Structural Controls shall include:
 - For check dams: removal of accumulated sediment when it reaches a depth of ½ the height of the check dam, adding stone or more check dams if channel erosion exceeds expectations, and inspection of the dams for short-circuiting;
 - block inlet protection devices: removal of accumulated sediment at and cleaning or replacement of gravel if the gravel becomes clogged with sediment; and
 - for silt fence and/or brush/fabric barriers: removal of accumulated sediment when it reaches a depth of ½ the height of the barrier and inspection of the barriers for short-circuiting..

C. Storm Water Management

- At FANWR, sediment basin maintenance shall include removal of accumulated sediment when it fills ½ the design volume, removal of trash and debris from the outlet structures and pool area, cleaning or replacement of gravel around the riser structure.
- Maintenance of diversions and grass swales includes debris and sediment removal from the channels, regrading of berms and channels as needed to maintain designed cross section and elevations, and maintaining vegetation.
- At LF3, riprap-lined swale maintenance includes removal of debris and replacement of displaced stones.

V. REPORTING

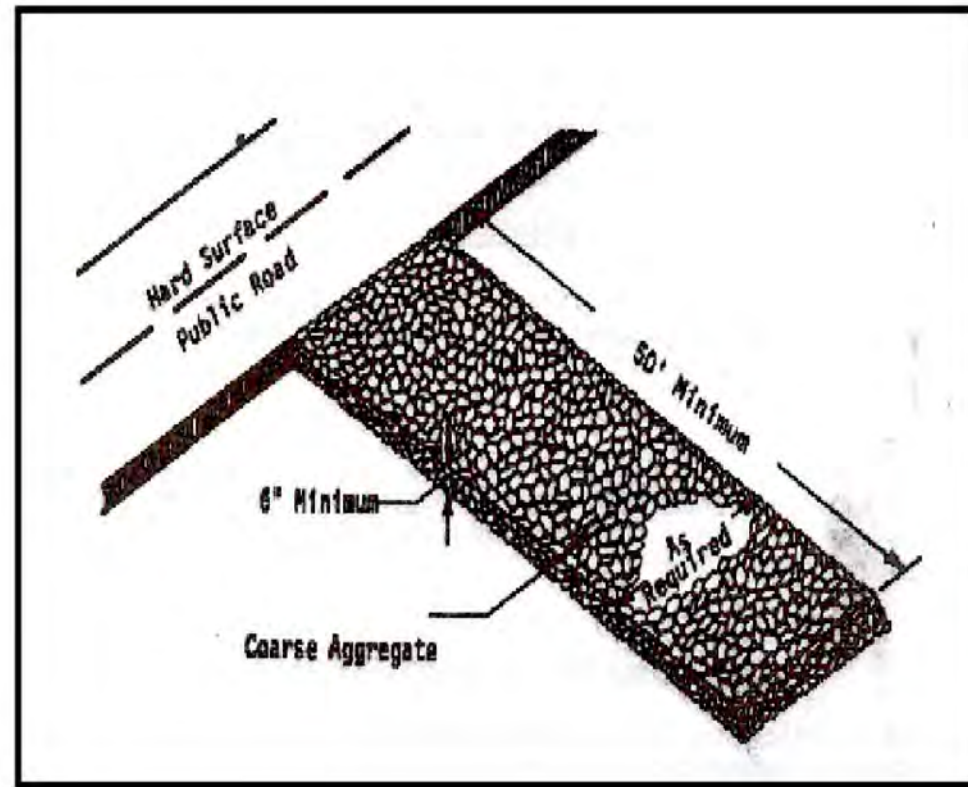
- Construction site operators shall keep all records required at the construction site and immediately available for inspection by the Department.
- Copies of all records shall be retained for a period of at least three years after proper termination of registration.
- Summary annual reports for the previous year shall be submitted to the Department.

Requirements for Nonwoven Geotextile

Property	Test method	Class I	Class II	Class III	Class IV ¹
Tensile strength (lb) ²	ASTM D 4632 grab test	150 minimum	120 minimum	90 minimum	115 minimum
Elongation at failure (%) ²	ASTM D 4632	≥ 50	≥ 50	≥ 50	≥ 50
Puncture (pounds)	ASTM D 4633	60 minimum	60 minimum	40 minimum	40 minimum
Ultraviolet light (% residual tensile strength) 150-hr exposure	ASTM D 4355	70 minimum	70 minimum	70 minimum	70 minimum
Apparent opening size (AOS)	ASTM D 4751	As specified max. #40 ¹	As specified max. #40 ¹	As specified max. #40 ¹	As specified max. #40 ¹
Permeability sec ⁻¹	ASTM D 4491	0.70 minimum	0.70 minimum	0.70 minimum	0.10 minimum

Table copied from NRCS Material Specification 592.

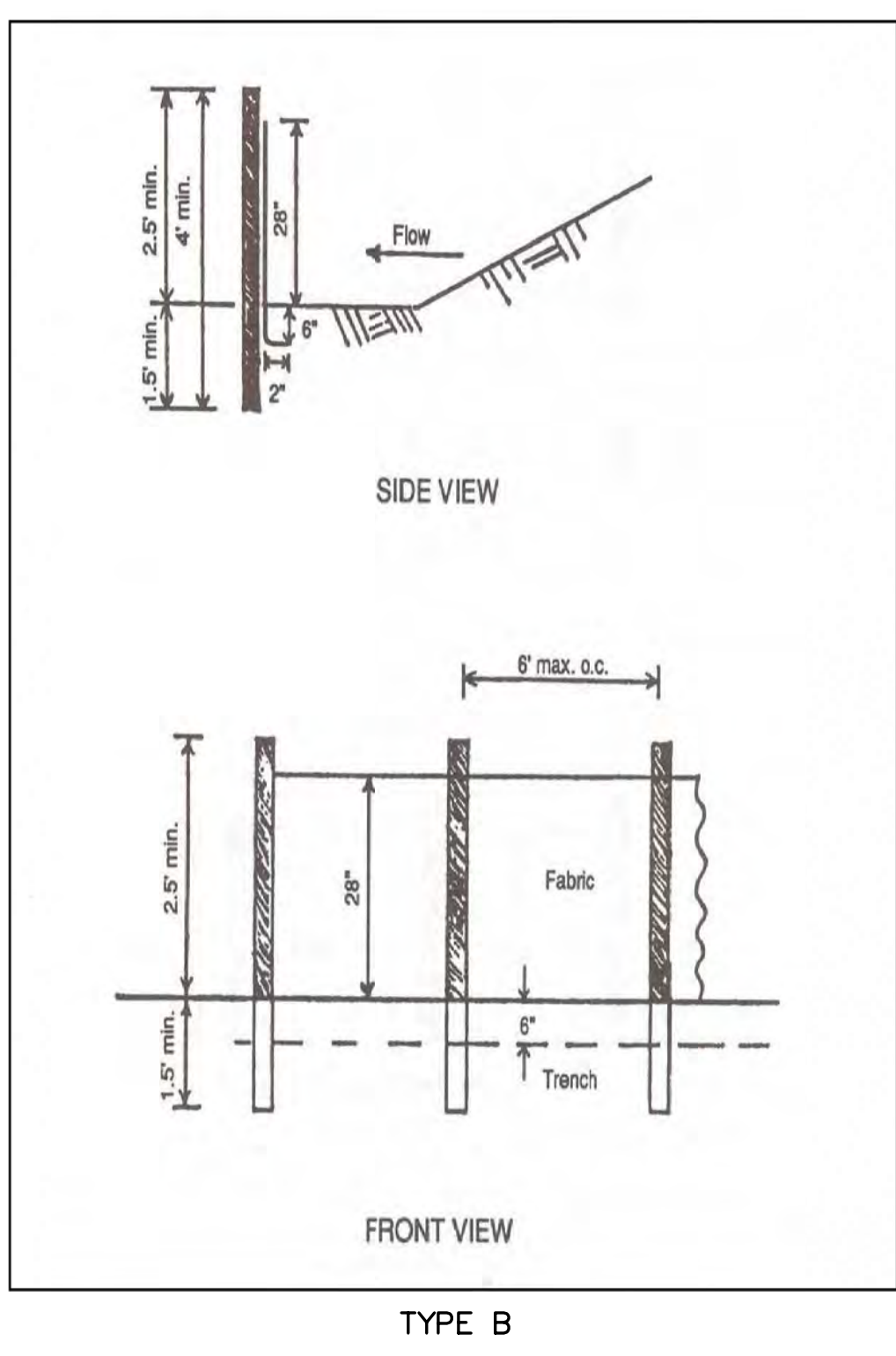
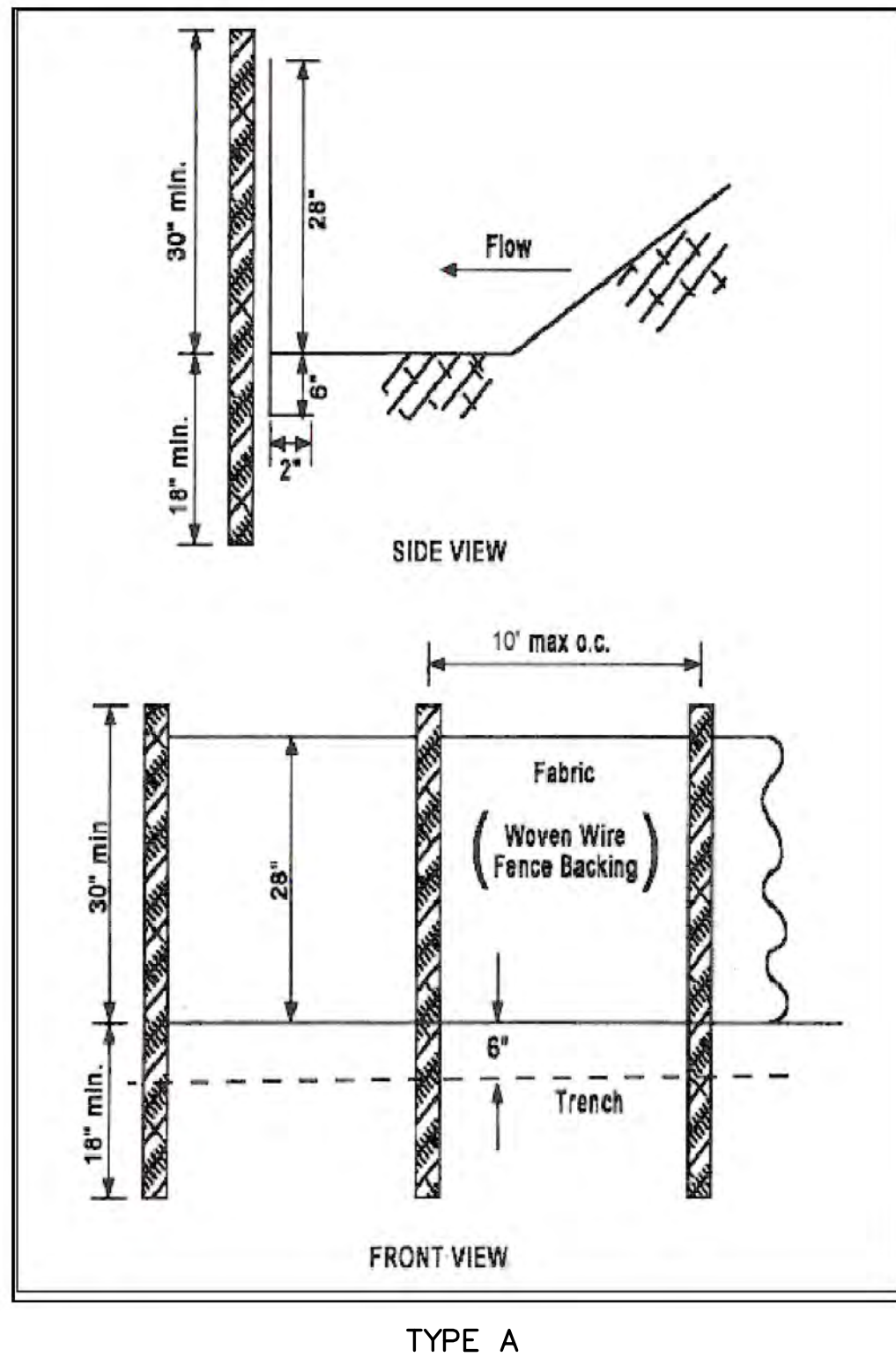
- Heat-bonded or resin-bonded geotextile may be used for classes III and IV. They are particularly well suited to class IV. Needle-punched geotextile are required for all other classes.
- Minimum average roll value (weakest principal direction).
- U.S. standard sieve size.



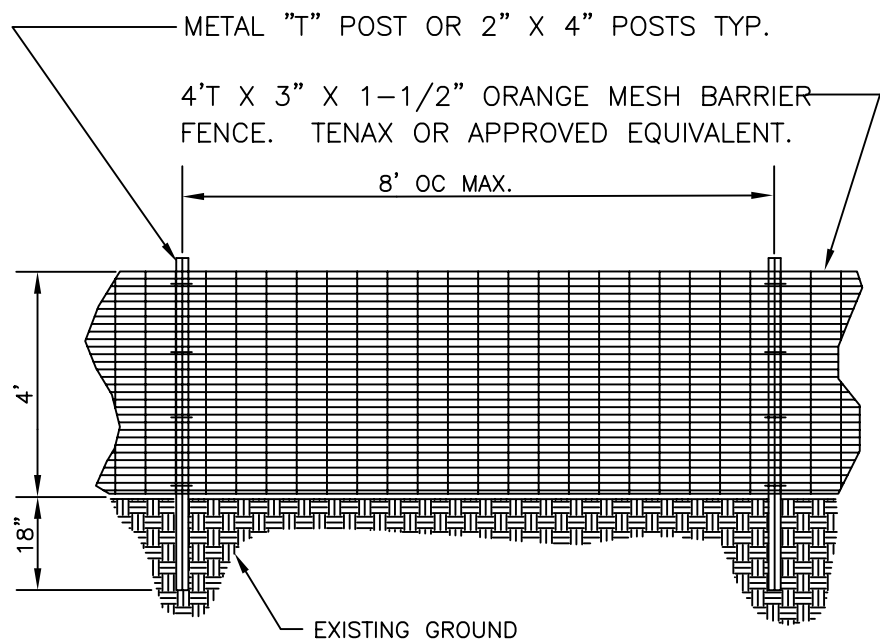
AGGREGATE SIZE: AGGREGATE SHOULD BE ALABAMA HIGHWAY DEPARTMENT COARSE AGGREGATE GRADATION NO. 1.

GEOTEXTILES: A NON-WOVEN GEOTEXTILE MEETING THE REQUIREMENTS SHOWN IN THE TABLE BELOW FOR CLASS IV GEOTEXTILES SHOULD BE USED UNDER THE ROCK WHEN THE SUBGRADE IS SOFT OR THE BLOW COUNT IS LESS THAN 10.

1 ES-5 DETAIL CONSTRUCTION EXIT PAD CEP



3 ES-5 DETAIL SEDIMENT BARRIER SB



2 ES-5 DETAIL TREE PROTECTION FENCE TF

Table SB-1 Specifications for Silt Fence

Specifications	Type A	Type B
Tensile Strength (Lbs. Min./ASTM D-4632)	Warp – 260 Fill – 100	Warp – 120 Fill – 100
Elongation (% Max.) (ASTM D-4632)	40	40
AOS (Apparent Opening Size) (Max. Sieve Size) (ASTM D-4751)	no.30	no.30
Flow Rate (Gal/Min/Sq. Ft.) (GDT-87)	70	25
Ultraviolet Stability ² (ASTM D-4632 after 300 hours weathering in accordance with ASTM D-4355)	80	80
Bursting Strength (PSI Min.) (ASTM D-3786 Diaphragm Bursting Strength Tester)	175	175
Minimum Fabric Width (inches)	36	36

² Minimum roll average of 5 specimens. Percent of required initial minimum tensile strength.

Table SB-2 Slope Limitations for Silt Fence

Land Slope (Percent)	Maximum Slope Length Above Fence (Feet)
<2	100
2 to 5	75
5 to 10	50
10 to 20 ¹	25
>20	15

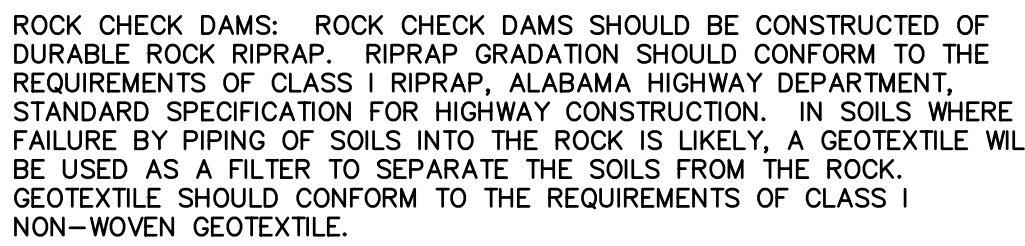
¹In areas where the slope is greater than 10%, a flat area length of 10 feet between the top of the slope to the fence should be provided.

Table SB-3 Post Size for Silt Fence

Minimum Length	Type of Post	Size of Post
Type A 4'	Steel	1.3lb./ft. min.
Type B 4'	Soft Wood Oak Steel	3" diameter or 2x4 1.5" x 1.5" 1.3lb./ft. min.

O	04.02.07	CERTIFIED-FOR-CONSTRUCTION	LMG	MJM
E	02.12.07	ISSUED FOR BID PURPOSES ONLY	LMG	MJM
MARK	DATE	REVISION	BY	APPROVED
OWNER:	ANNISTON-CALHOUN COUNTY FORT MCCLELLAN DEVELOPMENT JOINT POWERS AUTHORITY			
CLIENT:	Matrix Environmental Services, L.L.C. 180 Headquarters Drive, Bldg. 61 Anniston, Alabama 36205			
CONSULTANT:	GeoSYNTEC CONSULTANTS 1255 ROBERTS BOULEVARD, NW, SUITE 200 KENNESAW, GEORGIA 30144-3694 USA PHONE: 678.202.9500; FAX: 678.202.9501			
PROJECT:	LANDFILL COVER SYSTEMS LANDFILL 3 AND FILL AREA NW OF REILLY AIRFIELD McCLELLAN, ANNISTON, ALABAMA			
TITLE:	CONSTRUCTION BEST MANAGEMENT PRACTICES DETAILS I			
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DATE: APRIL 2007 SCALE: 1" = 100' DESIGN BY: VSC PROJECT NO.: GR3762 DRAWN BY: JAS FILE NO: 3762ES005 CHECKED BY: GG REVISION NO: 0 REVIEWED BY: LMG DRAWING NO: APPROVED BY: MJM ES-5		

CERTIFIED-FOR-CONSTRUCTION



5
ES-6

DETAIL
BRUSH/FABRIC BARRIER

BFB



FOR TEMPORARY BLANKETS STAPLES SHOULD BE U-SHAPED WIRE WITH AN 11 GAUGE THICKNESS OR GREATER. STAPLES SHOULD BE OF SUFFICIENT THICKNESS FOR SOIL PENETRATION WITHOUT UNDUE DISTORTION. THE LEGS OF THE STAPLES SHALL BE AT LEAST 6" LONG WITH A CROWN OF 1". APPROPRIATE BIODEGRADABLE STAPLES CAN BE USED IN LIEU OF WIRE STAPLES.

8 DETAIL
ES-6 EROSION CONTROL BLANKET ECB



11
ES-6

DETAIL
RIPRAP-LINED SWALE

RS



15
ES-6

DETAIL
BLOCK AND GRAVEL
INLET PROTECTION

BIP

13
ES-6

1. EARTHWORK SHALL BE IN ACCORDANCE WITH SPECIFICATION 02200 UNLESS OTHERWISE SPECIFIED.
2. RIPRAP SHALL BE IN ACCORDANCE WITH SPECIFICATION 02209 UNLESS OTHERWISE SPECIFIED.
3. GEOTEXTILE SHALL BE IN ACCORDANCE WITH SPECIFICATION 02720 UNLESS OTHERWISE SPECIFIED.
4. CMP OUTLET PIPE SHALL BE IN ACCORDANCE WITH SPECIFICATION 11002 UNLESS OTHERWISE SPECIFIED.
5. TOPSOIL AND VEGETATION SHALL BE IN ACCORDANCE WITH SPECIFICATION 02204 UNLESS OTHERWISE SPECIFIED.
6. EROSION MAT SHALL BE IN ACCORDANCE WITH SPECIFICATION 02204 UNLESS OTHERWISE SPECIFIED.
7. PERFORATIONS SHALL BE EVENLY DISTRIBUTED OVER THE RISER PIPE IN 10 ROWS AND 6 COLUMNS. VERTICAL SEPARATION BETWEEN PERFORATIONS SHALL BE 6 INCHES O.C. HORIZONTAL SEPARATION SHALL BE EQUALLY SPACED AROUND CIRCUMFERENCE.
8. SPILLWAY RISER AND PIPE SHALL BE IN ACCORDANCE WITH SPECIFICATION 11002.

12
ES-6

DETAIL
MULCHING

MU

WOOD FIBER REFERS TO SHORT CELLULOSE FIBERS APPLIED AS A SLURRY IN HYDROSEEDING OPERATIONS. WOOD FIBER HYDROSEEDER SLURRIES MAY BE USED TO TACK STRAW MULCH ON STEEP SLOPES, CRITICAL AREAS, AND WHERE HARSH CLIMATIC CONDITIONS EXIST.

12
ES-6

DETAIL
MULCHING

MU

DATE _____	SEAL _____	REVIEWED BY: LMG	DRAWING NO: ES-6
		APPROVED BY: M.JM	

CERTIFIED—FOR—CONSTRUCTION

