

LOCATION MAP

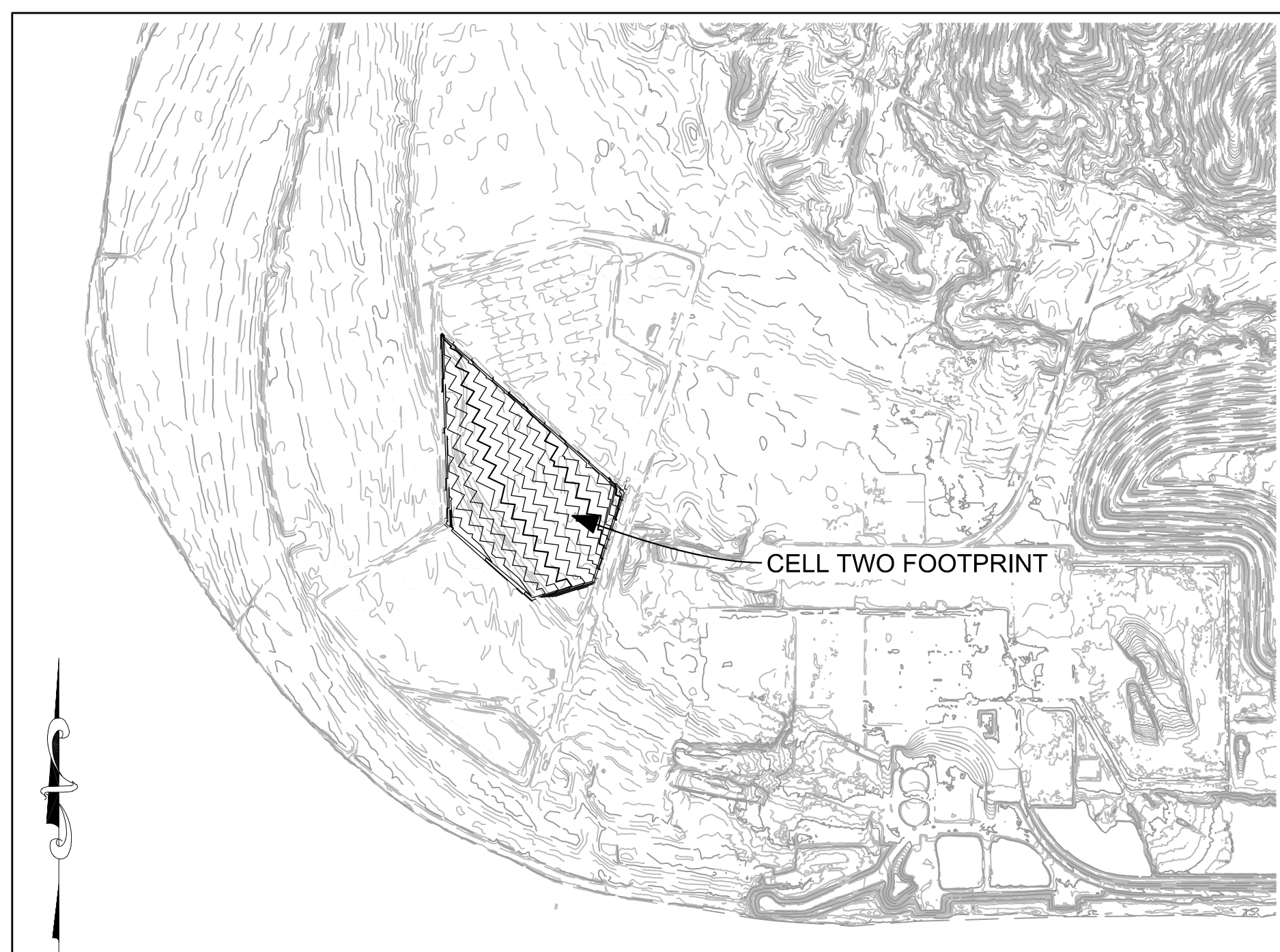


CELL TWO CONSTRUCTION AND OPERATION WEST SPECIAL WASTE LANDFILL EAST BEND STATION

OPERATED BY:
DUKE ENERGY KENTUCKY, INC.
RABBIT HASH, KENTUCKY

OWNED BY:
DUKE ENERGY, INC.
526 SOUTH CHURCH STREET, CHARLOTTE, NORTH CAROLINA 28202

PREPARED BY:
S&ME, INC.
6190 ENTERPRISE COURT, DUBLIN, OHIO 43016



PROJECT OVERVIEW MAP



CELL ONE CONSTRUCTION DRAWING INDEX

<u>DRAWING NUMBER</u>	<u>TITLE</u>
1B	COVER SHEET
2	SITE PLAN
5	FINAL GRADES (COMPLETED LANDFILL - REFERENCE ONLY)
6	LINER EXCAVATION GRADES (REFERENCE ONLY)
6A	CONTRACTOR USE AREAS
6D	CELL 2 GENERAL SITE PLAN (REFERENCE ONLY)
18B	CELL 2 BASE OF PREPARED SUBGRADE
19	CELL 2 BASE OF LINER SYSTEM GRADES
19A	CELL 2 BERMS AND COVER SOIL
19B	CELL 2 TOP OF DRAINAGE LAYER
19C	CELL 2 TOP OF PROTECTIVE COVER
19D	CELL 2 TOP OF WASTE
20	CELL 2 TOP OF COVER GRADES
33	DETAILS - CONCRETE CHANNEL
34	DETAILS - SURFACE WATER CONTROLS
35	DETAILS - SURFACE WATER CONTROLS
36	DETAILS - LINER
37	DETAILS - LEACHATE SYSTEM
39	DETAILS - CLEAN WATER DIVERSION
40A	DETAILS - GENERAL
40B	DETAILS - FINAL CAP
40C	DETAILS - CHIMNEY DRAINS
40E	DETAILS - ROADS
40F	DETAILS - ROADS
40L	CELL 2 PROFILES
40M	EROSION & SEDIMENT CONTROL NOTES
40N	EROSION & SEDIMENT CONTROL DETAILS
40P	EROSION & SEDIMENT CONTROL DETAILS
46	CROSS-SECTION 5134+00
47	CROSS-SECTION 5138+00
48	CROSS-SECTION 5142+00
49	CROSS-SECTION 5146+00
50	CROSS-SECTION 5150+00

PROJECT SUMMARY

WORK INCLUDED IN THIS CONTRACT CONSISTS OF:

CELL TWO FOOTPRINT

- EROSION & SEDIMENT CONTROLS
- TOPSOIL STRIPPING
- EXCAVATION AND FILL TO BASE OF PREPARED SUBGRADE
- GEOCOMPOSITE LINER SYSTEM
- LEACHATE COLLECTION SYSTEM WITH DRAINAGE LAYER
- PROTECTIVE COVER
- ANCILLARY ITEMS: PERIMETER BERMS, DITCH COVER SOIL, TEMPORARY CULVERTS, CONCRETE APRONS

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR

DESC: CELL 2 IFC

TITLE
COVER SHEET

PLANS PREPARED BY:	FOR	EAST BEND STATION - WEST SPECIAL WASTE LANDFILL	
 S&ME, INC. 6190 ENTERPRISE COURT DUBLIN, OH 43016 (614) 793-2226	SCALE:	AS NOTED	
	DWG TYPE:	CIVIL	
	JOB NO:	7217-17-017	
DATE:	04/13/2018		
FILENAME:	EBS_WESTLF_1B.dwg	ENGINEERING PERMIT 602	
DWG SIZE	DRAWING NUMBER		
ANSI D 22.0"X34.0"	EBS_WESTLF_1B		0





POINT	NORTHING	EASTING	ELEVATION	COMMENT
AERIAL 1	511452.807	1472198.120	522.89	CONC MON
AERIAL 3	511953.042	1473860.599	529.10	CONC MON
AERIAL 4	512460.534	1474124.238	523.42	CONC MON
AERIAL 5	512952.397	1474544.529	524.11	CONC MON
AERIAL 6	513274.432	1473880.119	524.86	CONC MON
AERIAL 9	514765.192	1471366.160	514.46	CONC MON
AERIAL 11	515068.155	1472767.893	526.05	CONC MON
AERIAL 16	513779.506	1470098.386	527.85	SPIKE
AERIAL 17	514341.467	1470305.331	525.13	SPIKE
AERIAL 18	514904.439	1470511.148	526.60	SPIKE
AERIAL 19	512348.884	1467093.019	511.55	IRON PIN
AERIAL 20	511920.111	1468845.636	518.96	IRON PIN
AERIAL 21	510778.120	1468851.727	492.52	SPIKE
AERIAL 22	510833.727	1466794.668	469.90	IRON PIN
AERIAL 23	511619.623	1467029.916	490.75	IRON PIN
COAL MON A	513202.538	1471676.059	521.39	CONC MON
COAL MON B	513207.481	1470586.098	521.24	CONC MON
COAL MON C	511625.670	1471675.983	521.04	CONC MON
BASE 1	513325.516	1469786.214	524.12	CONC MON
BASE 2	513325.505	1469286.166	523.31	CONC MON
BASE 3	513325.545	513325.545	525.91	CONC MON
NKC041	515337.855	1470710.503	533.28	
NKC041AZ	514117.314	1470175.819	527.64	

NOTE: COORDINATES ARE KENTUCKY STATE PLANE NORTH (1601), NAD 83 (1993 ADJUSTMENT), NAVD 88

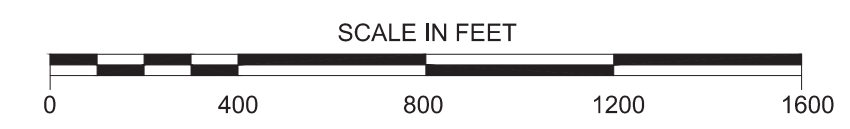
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
6	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR
DESC: CELL 2 IFC								
5	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								
4	03/18/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: ADDED BORINGS B-1410 THROUGH B-1419								
3	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: IFC-2014 UPDATE								
2	04/20/09	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, RENUMBERED								
1	12/20/07	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: CELL 8 OUTLINE								
0	03/20/07	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: ISSUED FOR PTI								

SITE PLAN

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- TREELINE
- TREE
- HAUL ROAD CENTERLINE
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- ⊕ TEST PIT
- ⊕ EXISTING MONITORING WELL
- ⊕ EXISTING PIEZOMETER
- ⊕ EXISTING OTHER WELLS
- ABANDONED MONITORING WELL
- BENCHMARK
- PROPOSED MONITORING WELL
- ABANDONED PIEZOMETER
- ⊕ SOIL BORING
- ▲ ABANDONED OTHER WELLS

NOTE: TOPOGRAPHIC CONTOURS PROVIDED BY SANBORN COLUMBUS INC. FLYOVER DATED 12/15/2004, AND SUPPLEMENTED WITH 2011 KYTC LIDAR MAPPING, KUCERA INTERNATIONAL INC. AERIAL PHOTOGRAPHY (DATED 8/5/2017, PROVIDED BY DUKE ENERGY AS A DTM FILE), AND ELLISON SURVEYING, INC. SURVEY (DATED 12/4/2017).



PLANS PREPARED BY:
S&M, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL	
SCALE: AS NOTED	DWG TYPE: CIVIL
JOB NO: 011-09323-004	DATE: 03/20/07
FILENAME: EBS_WESTLF_2.dwg	ENGINEERING PERMIT 602
DWG SIZE: ANSI D 22.0"x34.0"	DRAWING NUMBER: EBS_WESTLF_2
REVISION: 6	



APPROXIMATE LIMITS OF EXISTING, PERMITTED, CLOSED, LANDFILL

PROPOSED CONCRETE RUNOFF CHANNEL

PROPOSED CONCRETE RUNOFF CHANNEL

PROPOSED CONCRETE RUNOFF CHANNEL

PROPOSED CONCRETE RUNOFF CHANNEL

PROPOSED SEDIMENT POND

BASELINE

PROPOSED SERVICE ROAD, SEE DETAIL

LEGEND

- PROPERTY LINE
- PROPOSED INDEX CONTOURS
- PROPOSED INTERMEDIATE CONTOURS
- 490 — EXISTING GROUND SURFACE CONTOURS
- EXISTING GROUND SURFACE INTERMEDIATE CONTOURS
- - - LIMITS OF WASTE
- - - PROPOSED SURFACE WATER BERMS
- PROPOSED SERVICE ROAD
- EXISTING TREELINE

NOTE: THIS DRAWING IS PROVIDED FOR REFERENCE, NOT FOR CONSTRUCTION

NOTE: TOPOGRAPHIC CONTOURS PROVIDED BY SANBORN COLUMBUS INC. FLYOVER DATED 12/15/2004, AND SUPPLEMENTED WITH 2011 KYTC LIDAR MAPPING.

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
3	06/16/16	7217-14-004H	LANDFILL	CKH	IDT	IMRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								
2	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	IMRM	MGR	MGR
DESC: IFC-2014 UPDATE								
1	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
0	03/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: ISSUED FOR PTI								

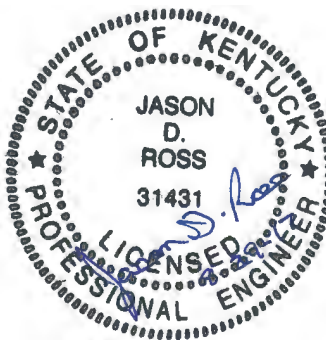
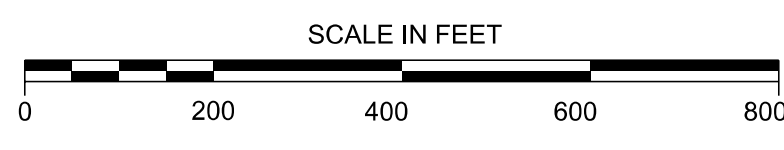
TITLE
FINAL GRADES
EAST BEND STATION
WEST SPECIAL WASTE LANDFILL

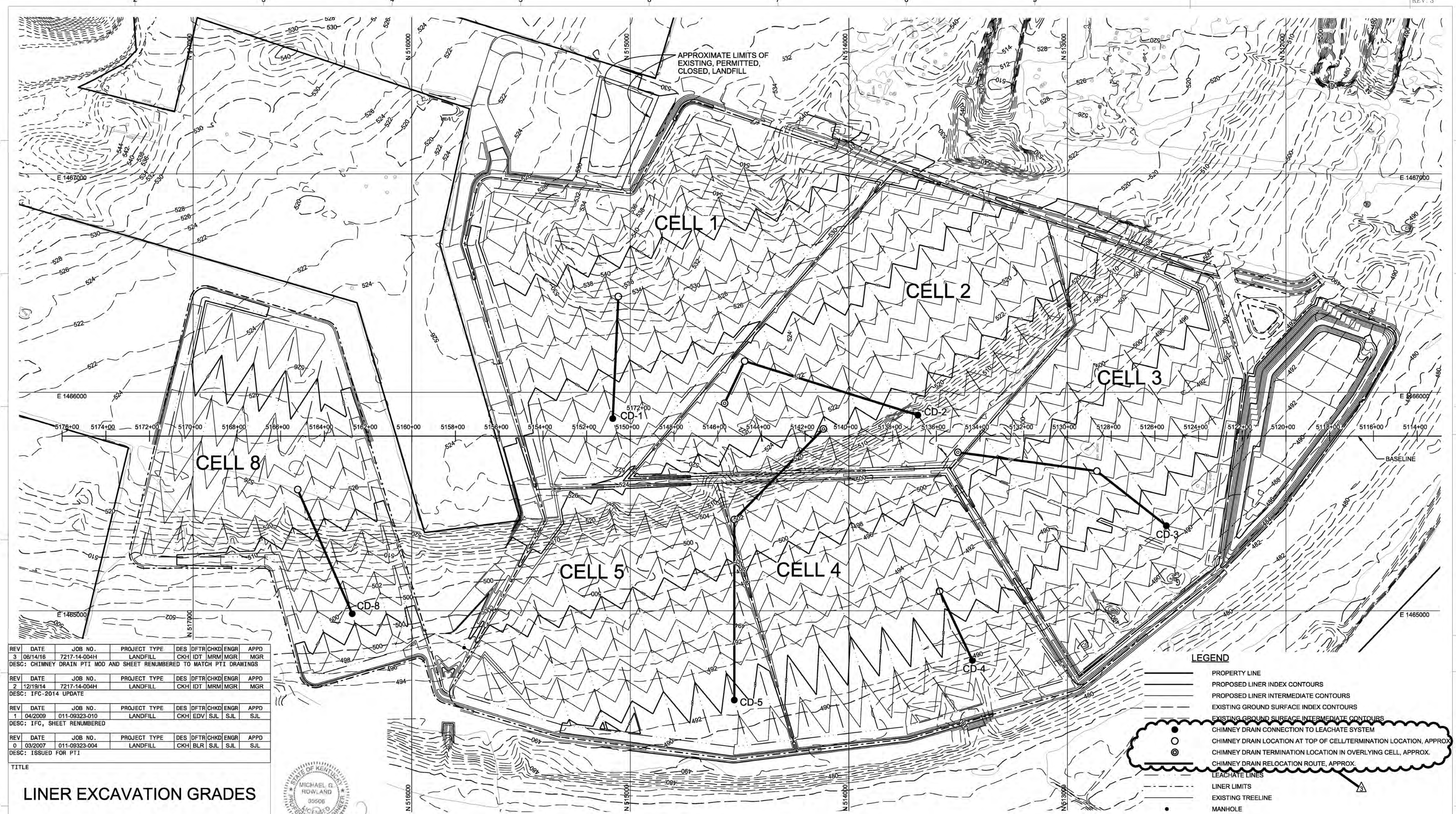
FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

S&ME SCALE: AS NOTED
DWG TYPE: CIVIL
JOB NO:
DATE: 03/2007

FILENAME: EBS_WESTLF_5.dgn ENGINEERING PERMIT 602

DWG SIZE	DRAWING NUMBER	REVISION
ANSI D 22.0"x34.0"	EBS_WESTLF_5	3





REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
3	06/14/16	7217-14-004H	LANDFILL	CKH	IDT	IMRM	MGR	MGR
DESC: CHIMNEY DRAIN PTI MOD AND SHEET RENUMBERED TO MATCH PTI DRAWINGS								
2	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	IMRM	MGR	MGR
DESC: IFC-2014 UPDATE								
1	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
0	03/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: ISSUED FOR PTI								

LINER EXCAVATION GRADES



PLANS PREPARED BY:

S&ME
6190 ENTERPRISE CT.
DUBLIN, O. H. 43016
PH: (614)793-2226

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

SCALE: AS NOTED
DWG TYPE: CIVIL
JOB NO:
DATE: 03/2007

DES: CKH
DFTR: IDT
CHKD: CKH
ENGR: JDR
APPD: MGR

FILENAME: EBS_WESTLF_6.DGN

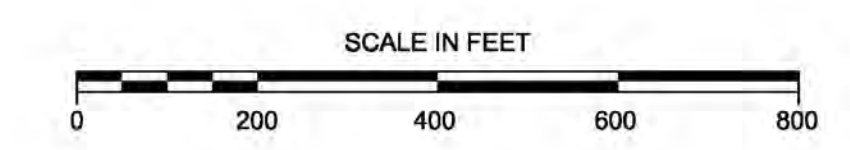
DWG SIZE: ANSI D 22"x34"

DRAWING NO. **EBS_WESTLF_6**

REVISION: **3**

NOTE: TOPOGRAPHIC CONTOURS PROVIDED BY SANBORN COLUMBUS INC. FLYOVER DATED 12/15/2004, AND SUPPLEMENTED WITH 2011 KYTC LIDAR MAPPING.

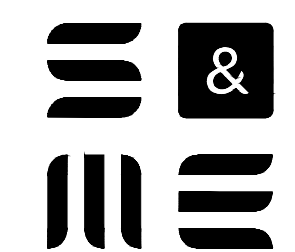
NOTE: THIS DRAWING IS PROVIDED FOR REFERENCE, NOT FOR CONSTRUCTION

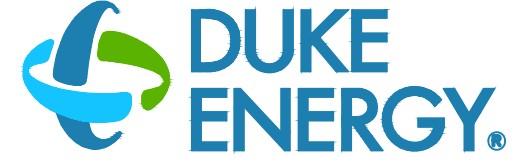




REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR
DESC: CELL 2 IFC								
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
1	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: CHANGED DRAWING NUMBER								
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: IFC-2014 UPDATE								

CONTRACTOR USE AREAS

PLANS PREPARED BY:  FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

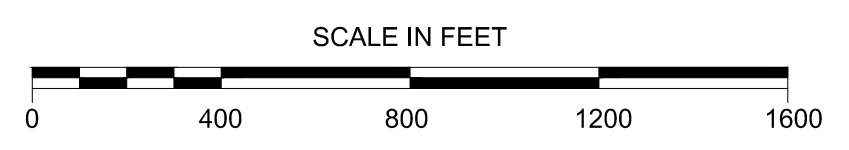
 SCALE: AS NOTED
DWG TYPE: CIVIL
JOB NO: 7217-14-004H
DATE: 11/2014

FILENAME: EBS_WESTLF_6A.dwg ENGINEERING PERMIT 602

DWG SIZE	DRAWING NUMBER	REVISION
ANSI D 22.0"x34.0"	EBS_WESTLF_6A	2




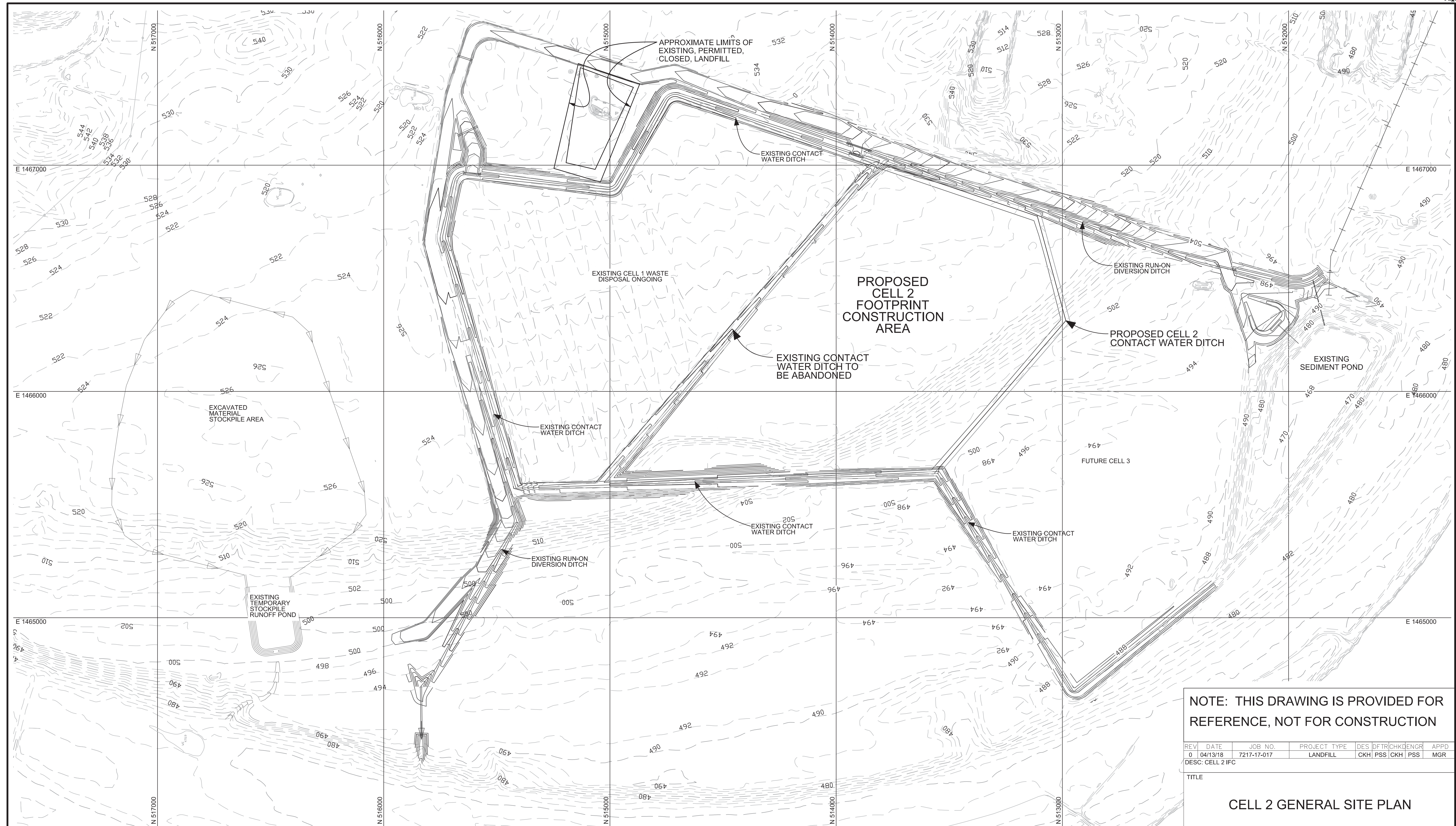
S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226



NOTE: AERIAL IMAGERY OBTAINED FROM GOOGLE EARTH (4/11/17) AND DOES NOT DISPLAY CONSTRUCTED HAUL ROAD, LOOP ROAD, AND TRUCK WASHES.

LEGEND

 CONTRACTORS USE AREAS



NOTE: THIS DRAWING IS PROVIDED FOR REFERENCE, NOT FOR CONSTRUCTION

REV	DATE	JOB NO.	PROJECT TYPE	DES	CHK	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS

DESC: CELL 2 IFC

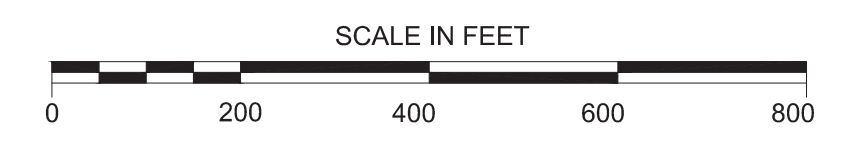
TITLE
CELL 2 GENERAL SITE PLAN

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

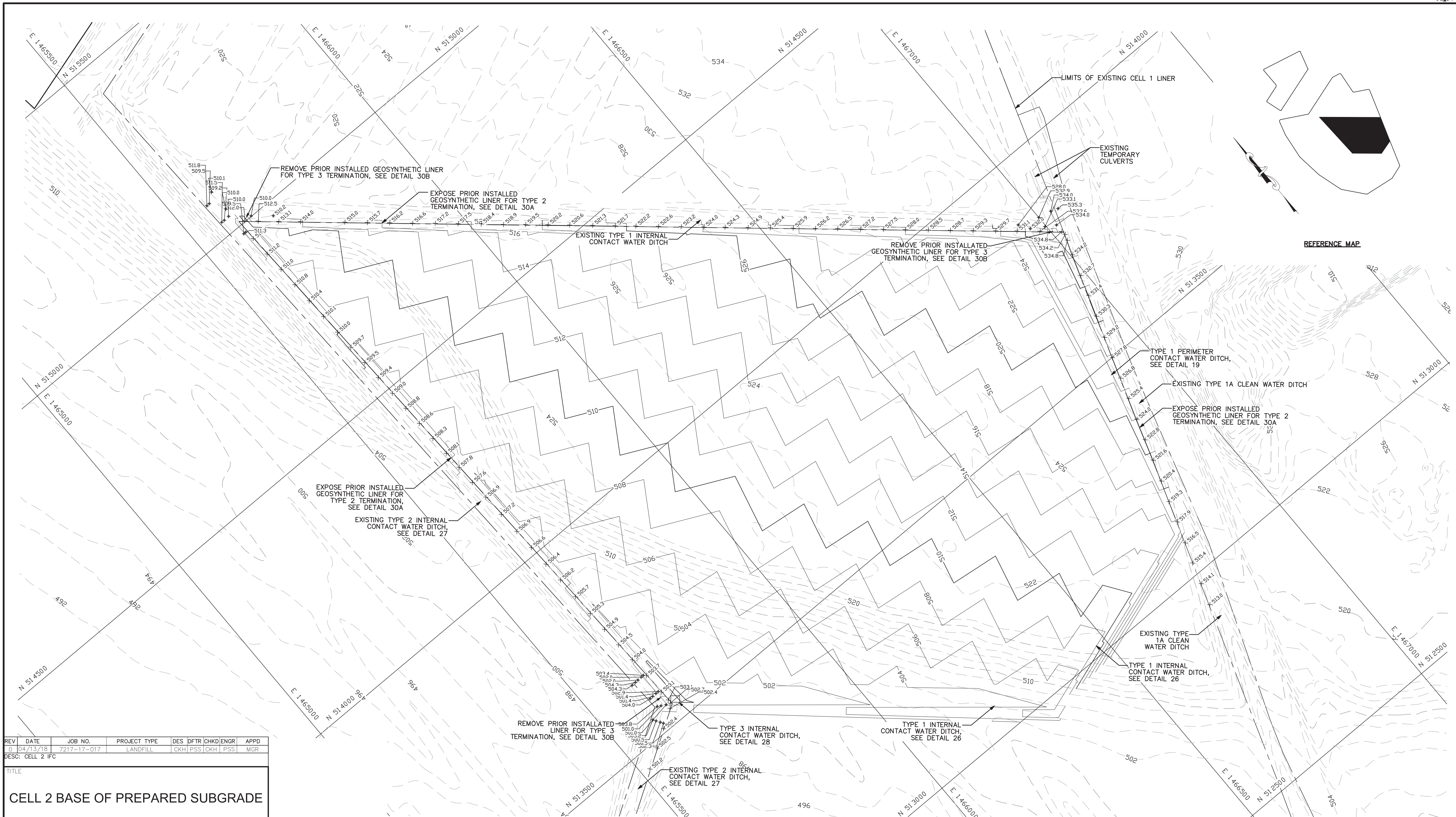
SCALE:	AS NOTED
DWG TYPE:	CIVIL
JOB NO.:	7217-17-017
DATE:	04/13/2018

FILENAME: EBS_WESTLF_6D.dwg ENGINEERING PERMIT 602

ANSI D	DRAWING NUMBER	REVISION
22.0"x34.0"	EBS_WESTLF_6D	0



PLANS PREPARED BY:
S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226



REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR

DESC: CELL 2 IFC

TITLE

CELL 2 BASE OF PREPARED SUBGRADE

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

	SCALE: 1" = 100'	DES: CKH
	DWG TYPE: CIVIL	DFTR: PSS
FILENAME: EBS_WESTLF_18B.dwg	DATE: 04/13/2018	CHKD: CKH
DWG SIZE: ANSI D 22"x34"	ENGINEERING PERMIT 602	ENGR: PSS
DRAWING NO. EBS_WESTLF_18B	APPD: MGR	APPD: MGR
REVISION 0		

PLANS PREPARED BY:

S&M E, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

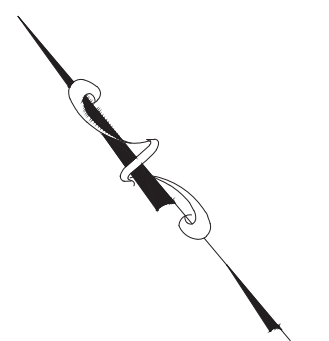


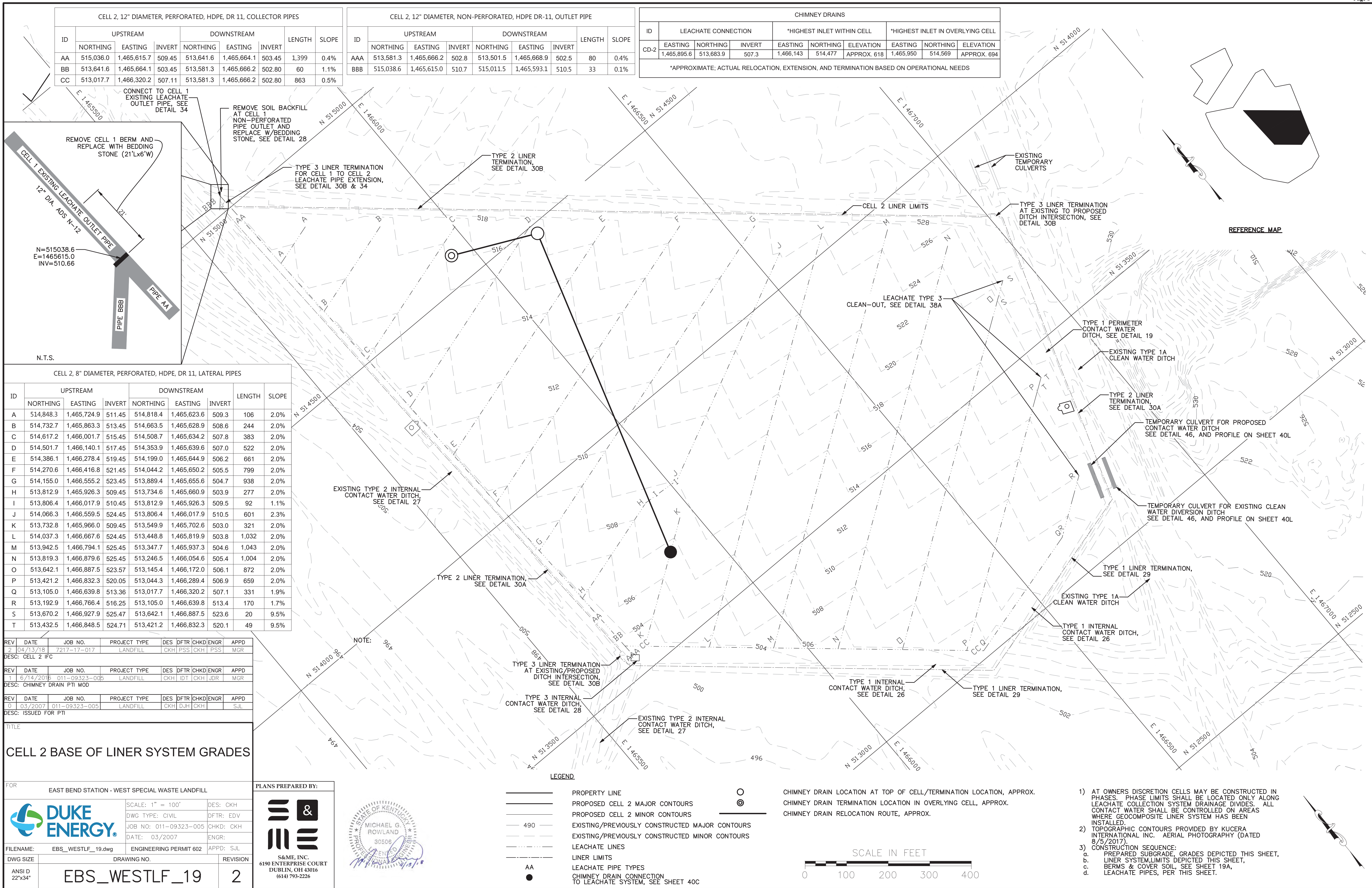
- LEGEND**
- PROPERTY LINE
 - PROPOSED CELL 2 MAJOR CONTOURS
 - PROPOSED CELL 2 MINOR CONTOURS
 - 490 — EXISTING/PREVIOUSLY CONSTRUCTED MAJOR CONTOURS
 - EXISTING/PREVIOUSLY CONSTRUCTED MINOR CONTOURS
 - - - LINER LIMITS
 - - - LIMITS OF WASTE
 - - - PROPOSED SURFACE WATER BERMS

× 501.00 CELL 1/EXISTING DITCH, EDGE OF LINER SPOT ELEVATION
 * 500.00 CELL 1/EXISTING DITCH, TOP OF PREPARED SUBGRADE SPOT ELEVATION

SCALE IN FEET

NOTE:
 1) AT OWNERS DISCRETION CELLS MAY BE CONSTRUCTED IN PHASES. PHASE LIMITS SHALL BE LOCATED ONLY ALONG LEACHATE COLLECTION SYSTEM DRAINAGE DIVIDES. ALL CONTACT WATER SHALL BE CONTROLLED ON AREAS WHERE GEOCOMPOSITE LINER SYSTEM HAS BEEN INSTALLED.
 2) TOPOGRAPHIC CONTOURS PROVIDED BY KUCERA INTERNATIONAL INC. AERIAL PHOTOGRAPHY.



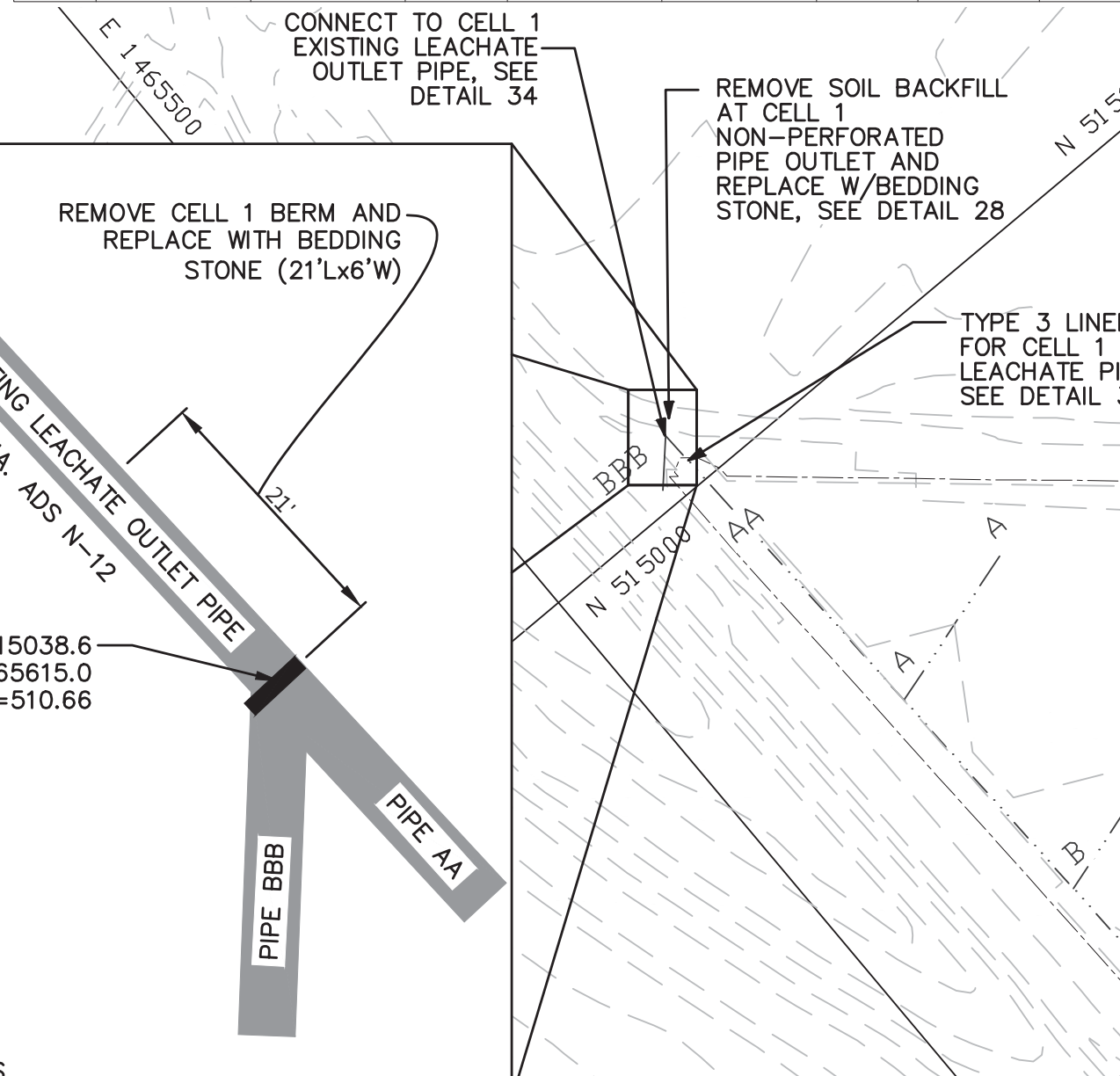


CELL 2, 12" DIAMETER, PERFORATED, HDPE, DR 11, COLLECTOR PIPES								
ID	UPSTREAM			DOWNSTREAM			LENGTH	SLOPE
	NORTHING	EASTING	INVERT	NORTHING	EASTING	INVERT		
AA	515,036.0	1,465,615.7	509.45	513,641.6	1,465,664.1	503.45	1,399	0.4%
BB	513,641.6	1,465,664.1	503.45	513,581.3	1,465,666.2	502.80	60	1.1%
CC	513,017.7	1,466,320.2	507.11	513,581.3	1,465,666.2	502.80	863	0.5%

CELL 2, 12" DIAMETER, NON-PERFORATED, HDPE DR-11, OUTLET PIPE								
ID	UPSTREAM			DOWNSTREAM			LENGTH	SLOPE
	NORTHING	EASTING	INVERT	NORTHING	EASTING	INVERT		
AAA	513,581.3	1,465,666.2	502.8	513,501.5	1,465,668.9	502.5	80	0.4%
BBB	515,038.6	1,465,615.0	510.7	515,011.5	1,465,593.1	510.5	33	0.1%

CHIMNEY DRAINS									
ID	LEACHATE CONNECTION			*HIGHEST INLET WITHIN CELL			*HIGHEST INLET IN OVERLYING CELL		
	EASTING	NORTHING	INVERT	EASTING	NORTHING	ELEVATION	EASTING	NORTHING	ELEVATION
CD-2	1,465,895.6	513,683.9	507.3	1,466,143	514,477	APPROX. 618	1,465,950	514,569	APPROX. 694

*APPROXIMATE; ACTUAL RELOCATION, EXTENSION, AND TERMINATION BASED ON OPERATIONAL NEEDS



CELL 2, 8" DIAMETER, PERFORATED, HDPE, DR 11, LATERAL PIPES								
ID	UPSTREAM			DOWNSTREAM			LENGTH	SLOPE
	NORTHING	EASTING	INVERT	NORTHING	EASTING	INVERT		
A	514,848.3	1,465,724.9	511.45	514,818.4	1,465,623.6	509.3	106	2.0%
B	514,732.7	1,465,863.3	513.45	514,663.5	1,465,628.9	508.6	244	2.0%
C	514,617.2	1,466,001.7	515.45	514,508.7	1,465,634.2	507.8	383	2.0%
D	514,501.7	1,466,140.1	517.45	514,353.9	1,465,639.6	507.0	522	2.0%
E	514,386.1	1,466,278.4	519.45	514,199.0	1,465,644.9	506.2	661	2.0%
F	514,270.6	1,466,416.8	521.45	514,044.2	1,465,650.2	505.5	799	2.0%
G	514,155.0	1,466,555.2	523.45	513,889.4	1,465,655.6	504.7	938	2.0%
H	513,812.9	1,465,926.3	509.45	513,734.6	1,465,660.9	503.9	277	2.0%
I	513,806.4	1,466,017.9	510.45	513,812.9	1,465,926.3	509.5	92	1.1%
J	514,066.3	1,466,559.5	524.45	513,806.4	1,466,017.9	510.5	601	2.3%
K	513,732.8	1,465,966.0	509.45	513,549.9	1,465,702.6	503.0	321	2.0%
L	514,037.3	1,466,667.6	524.45	513,448.8	1,465,819.9	503.8	1,032	2.0%
M	513,942.5	1,466,794.1	525.45	513,347.7	1,465,937.3	504.6	1,043	2.0%
N	513,819.3	1,466,879.6	525.45	513,246.5	1,466,054.6	505.4	1,004	2.0%
O	513,642.1	1,466,887.5	523.57	513,145.4	1,466,172.0	506.1	872	2.0%
P	513,421.2	1,466,832.3	520.05	513,044.3	1,466,289.4	506.9	659	2.0%
Q	513,105.0	1,466,639.8	513.36	513,017.7	1,466,320.2	507.1	331	1.9%
R	513,192.9	1,466,766.4	516.25	513,105.0	1,466,639.8	513.4	170	1.7%
S	513,670.2	1,466,927.9	525.47	513,642.1	1,466,887.5	523.6	20	9.5%
T	513,432.5	1,466,848.5	524.71	513,421.2	1,466,832.3	520.1	49	9.5%

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR
DESC: CELL 2 IFC								
1	6/14/2018	011-09323-005	LANDFILL	CKH	IDT	CKH	JDR	MGR
DESC: CHIMNEY DRAIN PTI MOD								
0	03/2007	011-09323-005	LANDFILL	CKH	DJH	CKH		SJL
DESC: ISSUED FOR PTI								

CELL 2 BASE OF LINER SYSTEM GRADES

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

DUKE ENERGY

SCALE: 1" = 100'
DWG TYPE: CIVIL
JOB NO: 011-09323-005
DATE: 03/2007

DES: CKH
DFTR: EDV
CHKD: CKH
ENGR:
APPD: SJL

FILENAME: EBS_WESTLF_19.dwg
ENGINEERING PERMIT 602
APPD: SJL

DWG SIZE: ANSI D 22"x34"
DRAWING NO: EBS_WESTLF_19
REVISION: 2

PLANS PREPARED BY:

S&M, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

STATE OF KENTUCKY
MICHAEL G. ROWLAND
30506
Professional Engineer Seal

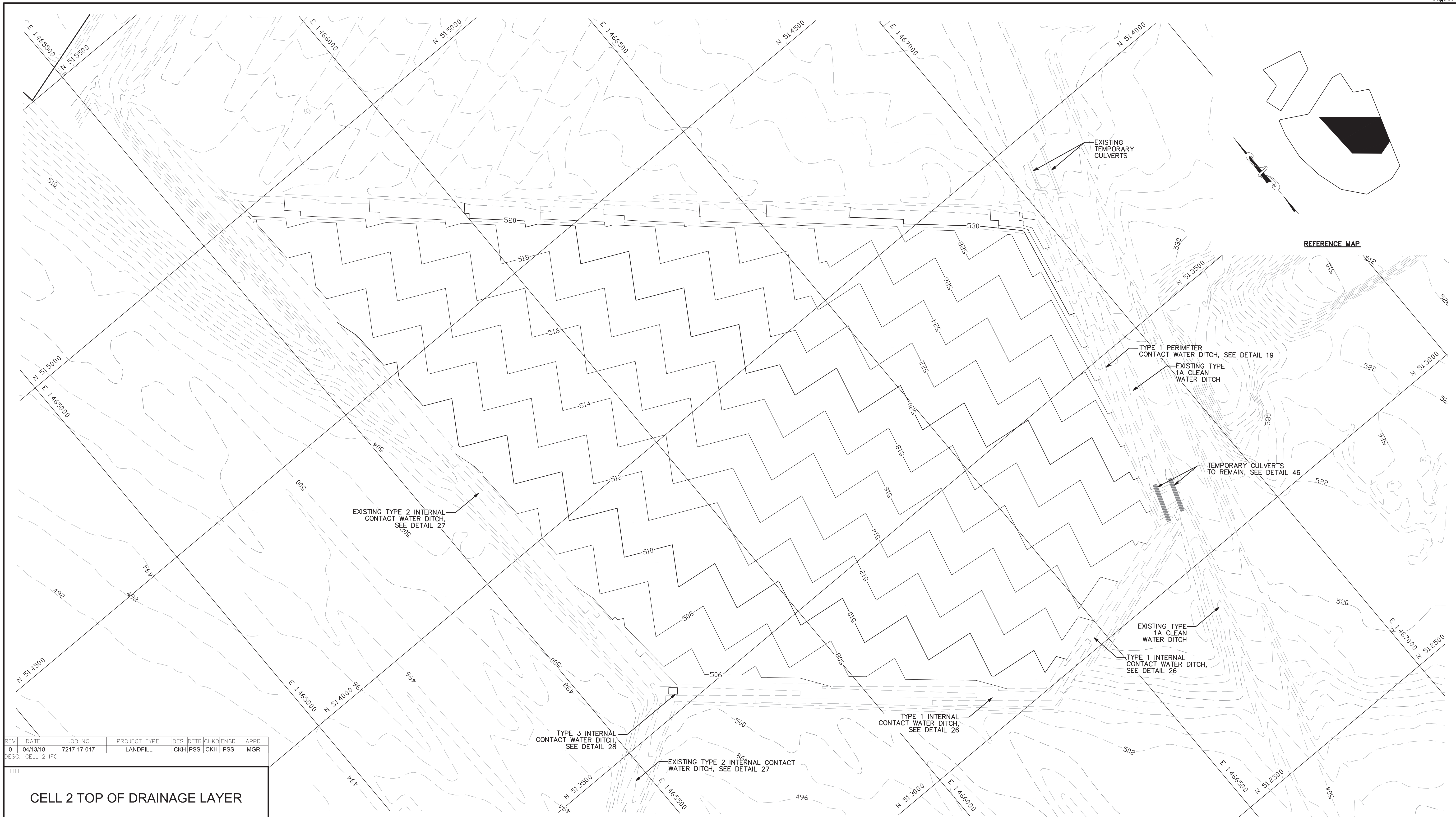
LEGEND

- PROPERTY LINE
- PROPOSED CELL 2 MAJOR CONTOURS
- PROPOSED CELL 2 MINOR CONTOURS
- EXISTING/PREVIOUSLY CONSTRUCTED MAJOR CONTOURS
- EXISTING/PREVIOUSLY CONSTRUCTED MINOR CONTOURS
- LEACHATE LINES
- LINER LIMITS
- LEACHATE PIPE TYPES
- CHIMNEY DRAIN CONNECTION TO LEACHATE SYSTEM, SEE SHEET 40C
- CHIMNEY DRAIN LOCATION AT TOP OF CELL/TERMINATION LOCATION, APPROX.
- CHIMNEY DRAIN TERMINATION LOCATION IN OVERLYING CELL, APPROX.
- CHIMNEY DRAIN RELOCATION ROUTE, APPROX.

SCALE IN FEET

0 100 200 300 400

- AT OWNERS DISCRETION CELLS MAY BE CONSTRUCTED IN PHASES. PHASE LIMITS SHALL BE LOCATED ONLY ALONG LEACHATE COLLECTION SYSTEM DRAINAGE DIVIDES. ALL CONTACT WATER SHALL BE CONTROLLED ON AREAS WHERE GEOCOMPOSITE LINER SYSTEM HAS BEEN INSTALLED.
- TOPOGRAPHIC CONTOURS PROVIDED BY KUCERA INTERNATIONAL INC. AERIAL PHOTOGRAPHY (DATED 8/5/2017).
- CONSTRUCTION SEQUENCE:
 - PREPARED SUBGRADE, GRADES DEPICTED THIS SHEET,
 - LINER SYSTEM LIMITS DEPICTED THIS SHEET, BERMS & COVER SOIL. SEE SHEET 19A,
 - LEACHATE PIPES, PER THIS SHEET.



REFERENCE MAP

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR

DESC: CELL 2 IFC

TITLE
CELL 2 TOP OF DRAINAGE LAYER

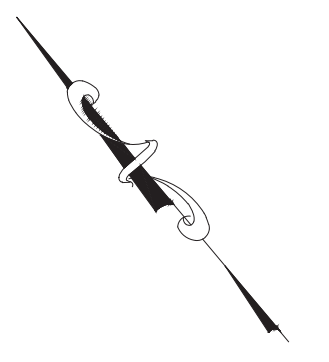
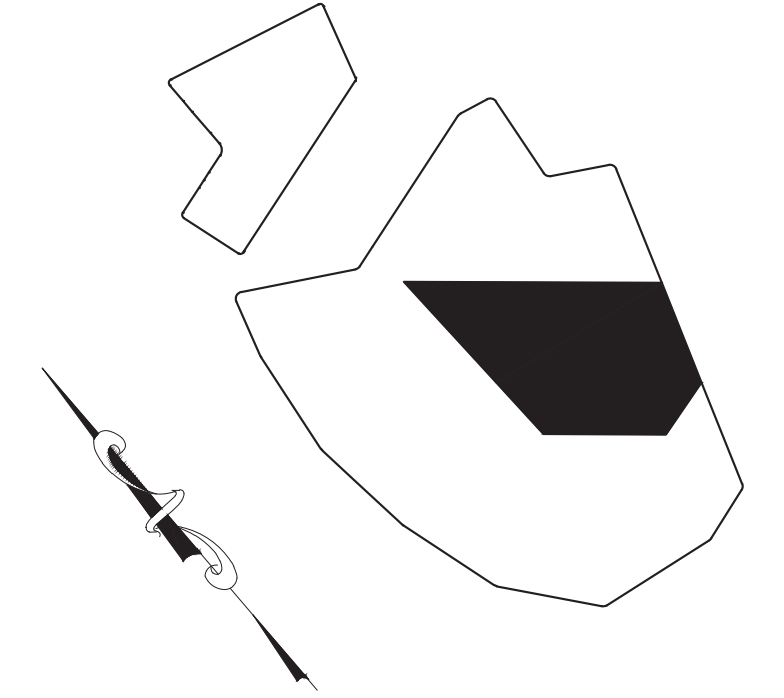
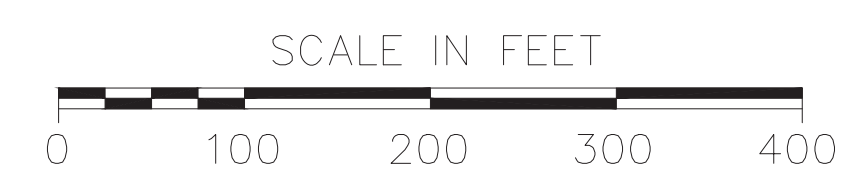
FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL		PLANS PREPARED BY:	
	SCALE: 1" = 100'	DES: CKH	
	DWG TYPE: CIVIL	DFTR: PSS	
FILENAME: EBS_WESTLF_19B.dwg	JOB NO: 7217-17-017	CHKD: CKH	
DWG SIZE: ANSI D 22"x34"	DATE: 04/13/18	ENGR: PSS	
	ENGINEERING PERMIT 602	APPD: MGR	
	DRAWING NO.	REVISION	
	EBS_WESTLF_19B	0	

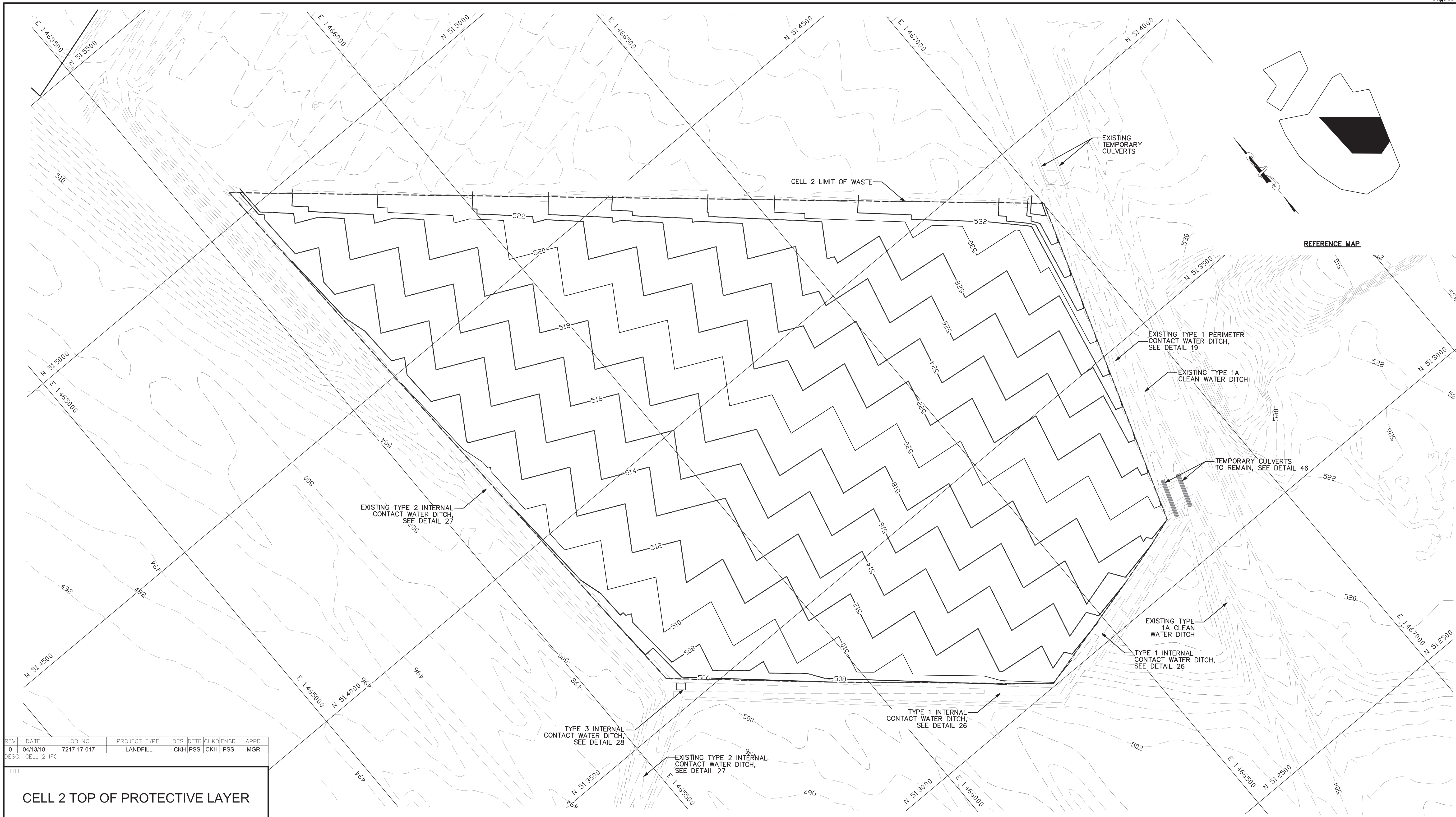
S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

LEGEND

- PROPERTY LINE
- PROPOSED CELL 2 MAJOR CONTOURS
- PROPOSED CELL 2 MINOR CONTOURS
- 490 ——— EXISTING/PREVIOUSLY CONSTRUCTED MAJOR CONTOURS
- EXISTING/PREVIOUSLY CONSTRUCTED MINOR CONTOURS
- LIMITS OF WASTE
- PROPOSED SURFACE WATER BERMS

NOTE:
AT OWNERS DISCRETION CELLS MAY BE CONSTRUCTED IN PHASES. PHASE LIMITS SHALL BE LOCATED ONLY ALONG LEACHATE COLLECTION SYSTEM DRAINAGE DIVIDES. ALL CONTACT WATER SHALL BE CONTROLLED ON AREAS WHERE GEOCOMPOSITE LINER SYSTEM HAS BEEN INSTALLED.





REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR

DESC: CELL 2 IFC

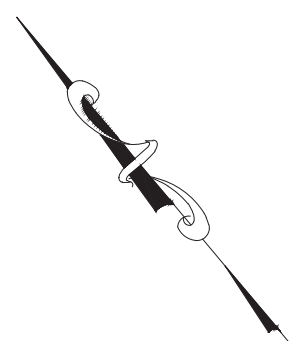
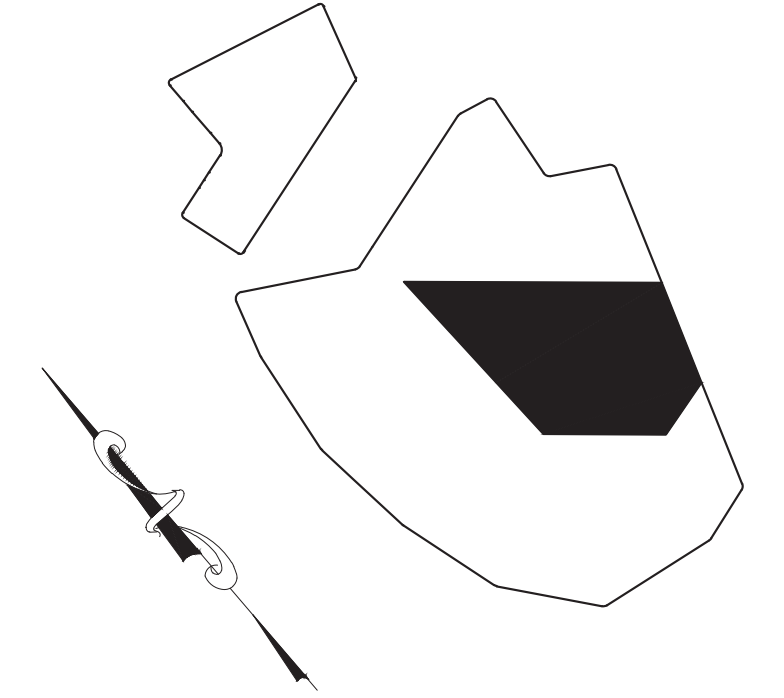
TITLE
CELL 2 TOP OF PROTECTIVE LAYER

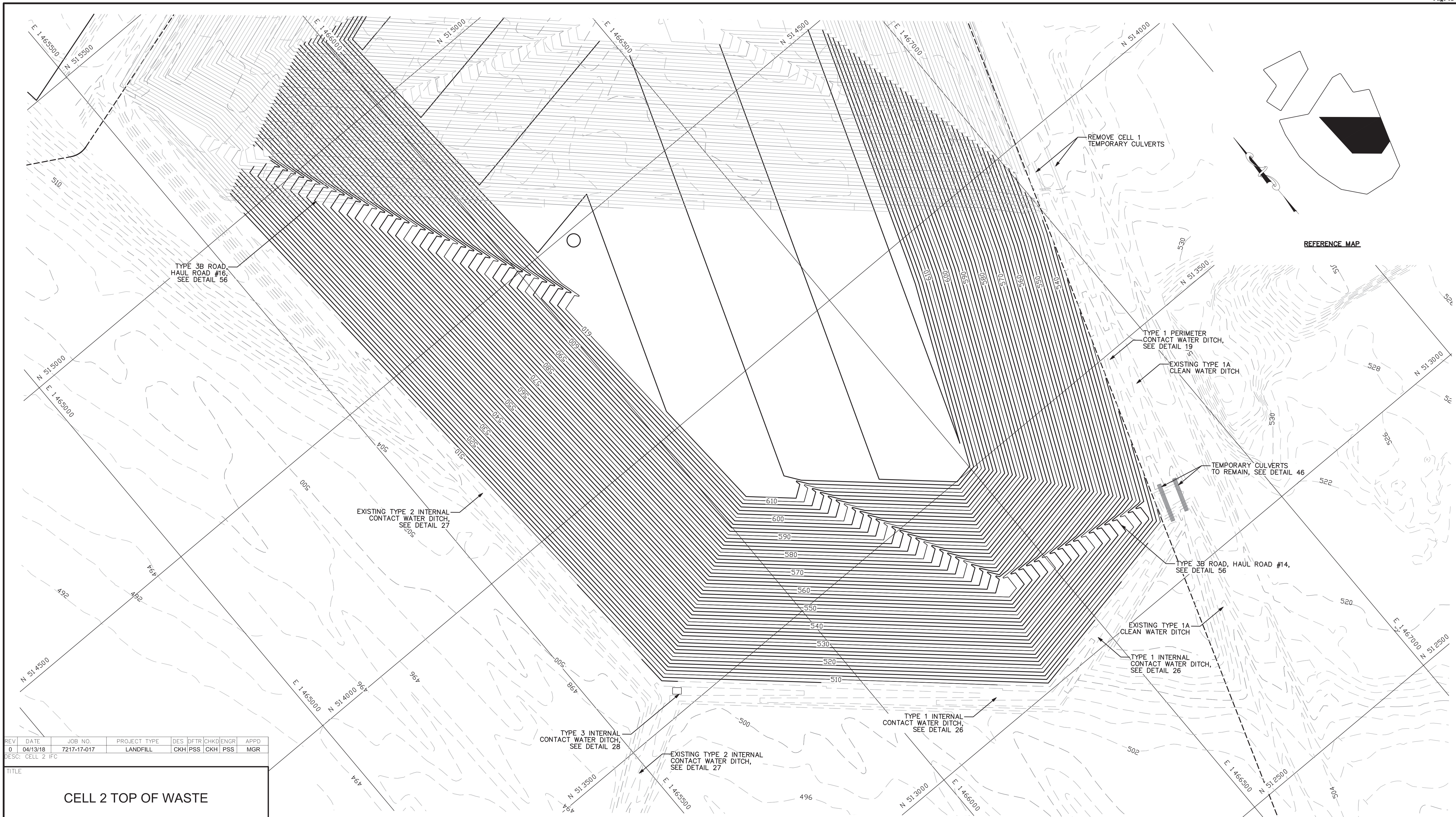
FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL		PLANS PREPARED BY:	
	SCALE: 1" = 100'	DES: CKH	
	DWG TYPE: CIVIL	DFTR: PSS	
FILENAME: EBS_WESTLF_19C.dwg	DATE: 03/02/18	ENGR: PSS	
DWG SIZE: ANSI D 22"x34"	ENGINEERING PERMIT 602	APPD: MGR	
DRAWING NO.	REVISION		
EBS_WESTLF_19C	0		

S&M, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

- LEGEND**
- PROPERTY LINE
 - PROPOSED CELL 2 MAJOR CONTOURS
 - PROPOSED CELL 2 MINOR CONTOURS
 - 490 — EXISTING/PREVIOUSLY CONSTRUCTED MAJOR CONTOURS
 - EXISTING/PREVIOUSLY CONSTRUCTED MINOR CONTOURS
 - - - LIMITS OF WASTE
 - - - PROPOSED SURFACE WATER BERMS

NOTE:
AT OWNERS DISCRETION CELLS MAY BE CONSTRUCTED IN PHASES. PHASE LIMITS SHALL BE LOCATED ONLY ALONG LEACHATE COLLECTION SYSTEM DRAINAGE DIVIDES. ALL CONTACT WATER SHALL BE CONTROLLED ON AREAS WHERE GEOCOMPOSITE LINER SYSTEM HAS BEEN INSTALLED.





REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR

DESC: CELL 2 IFC

TITLE

CELL 2 TOP OF WASTE

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL		PLANS PREPARED BY:	
	SCALE: 1" = 100'	DES: CKH	
	DWG TYPE: CIVIL	DFTR: PSS	
FILENAME: EBS_WESTLF_19D.dwg	JOB NO: 7217-17-017	CHKD: CKH	
DWG SIZE: ANSI D 22"x34"	DATE: 04/13/18	ENGR: PSS	
	ENGINEERING PERMIT 602	APPD: MGR	
DRAWING NO.	REVISION		
EBS_WESTLF_19D	0		

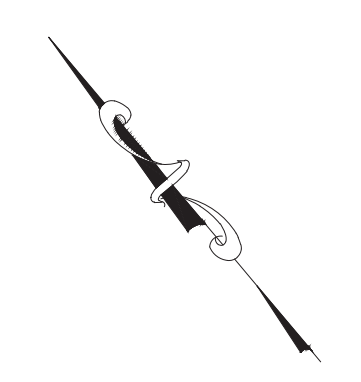
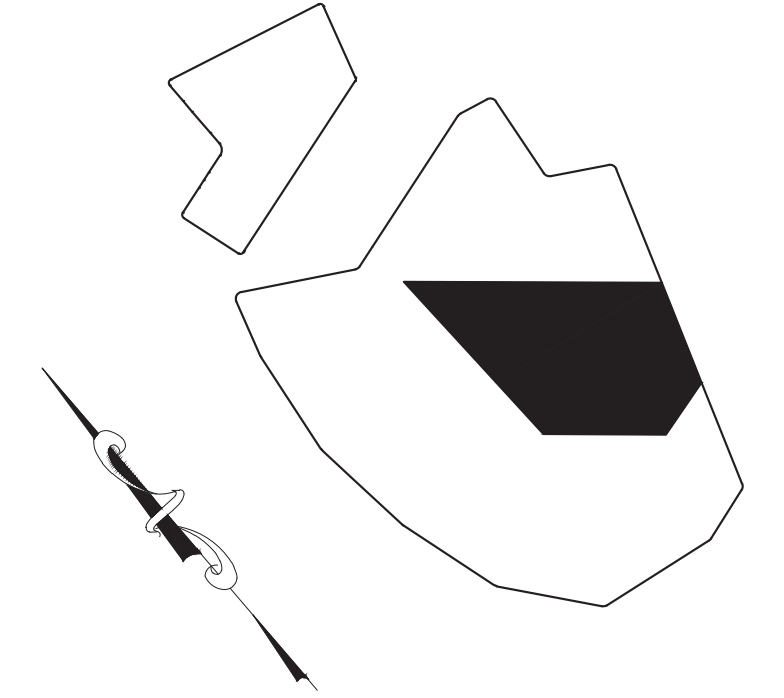
S&M, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

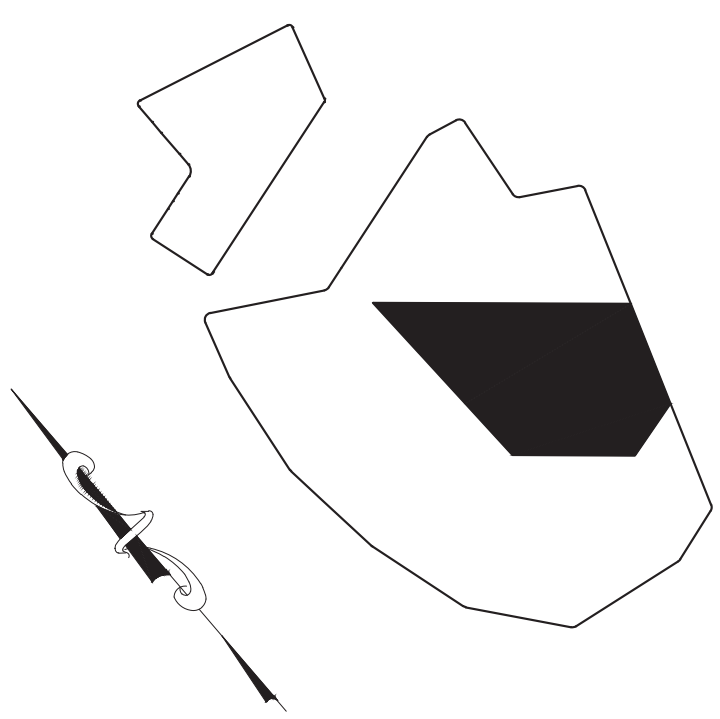
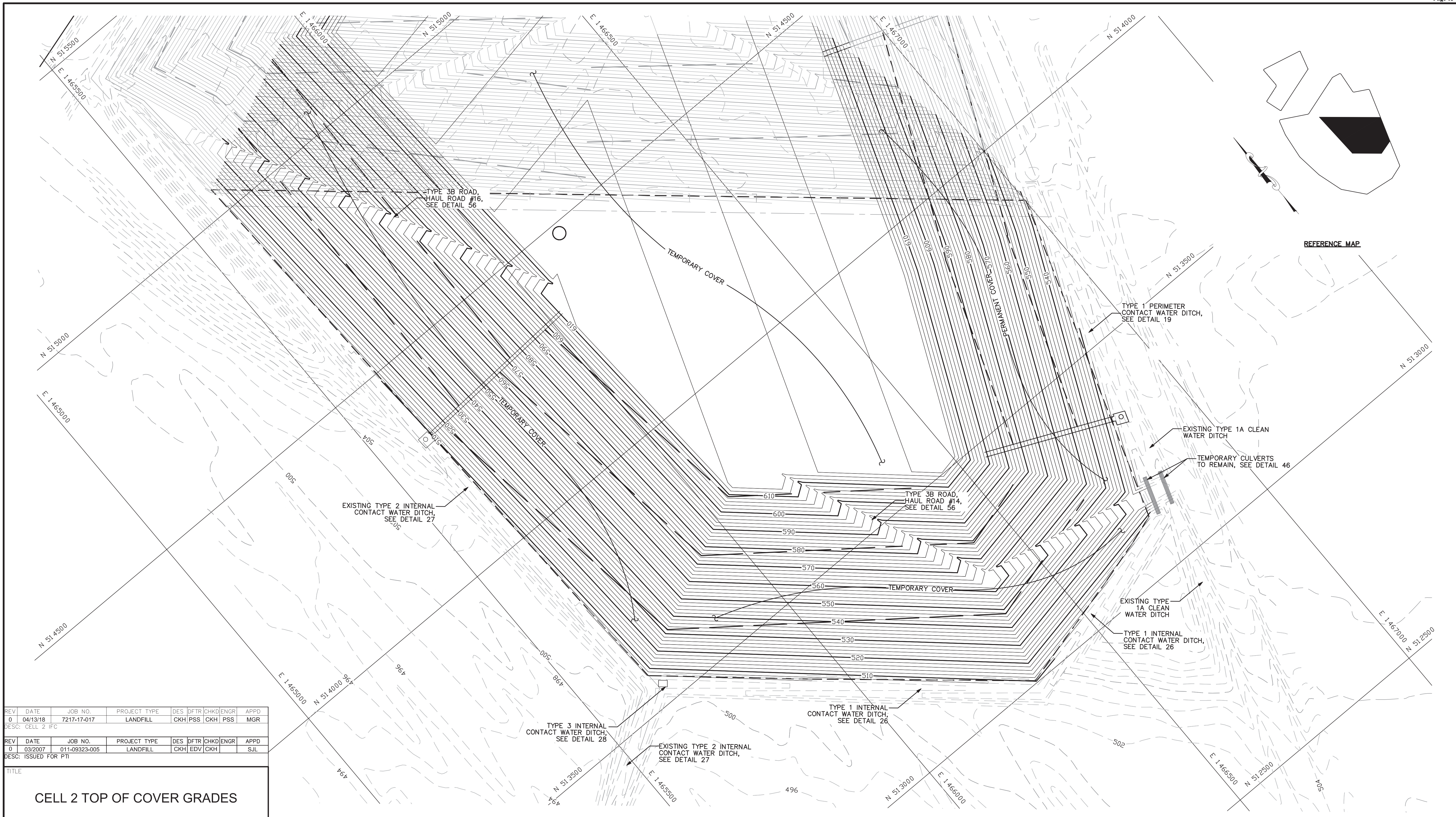
LEGEND

- PROPERTY LINE
- PROPOSED CELL 2 MAJOR CONTOURS
- PROPOSED CELL 2 MINOR CONTOURS
- EXISTING/PREVIOUSLY CONSTRUCTED MAJOR CONTOURS
- EXISTING/PREVIOUSLY CONSTRUCTED MINOR CONTOURS
- LEACHATE LINES
- LINER LIMITS
- LIMITS OF WASTE
- PROPOSED SURFACE WATER BERMS

CHIMNEY DRAIN LOCATION AT TOP OF CELL/TERMINATION LOCATION, APPROX.
 ASH GRADE CELL 1 MAJOR CONTOURS
 ASH GRADE CELL 1 MINOR CONTOURS

SCALE IN FEET





REFERENCE MAP

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR

DESC: CELL 2 IFC

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	03/2007	011-09323-005	LANDFILL	CKH	EDV	CKH		SJL

DESC: ISSUED FOR PTI

TITLE
CELL 2 TOP OF COVER GRADES

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

SCALE: 1" = 100'
DWG TYPE: CIVIL
JOB NO: 011-09323-005
DATE: 03/2007

DES: CKH
DFTR: EDV
CHKD: CKH
ENGR:
APPD: SJL

FILENAME: EBS_WESTLF_20.dwg
ENGINEERING PERMIT 602
DWG SIZE: ANSI D 22"x34"

DRAWING NO. **EBS_WESTLF_20**
REVISION **1**

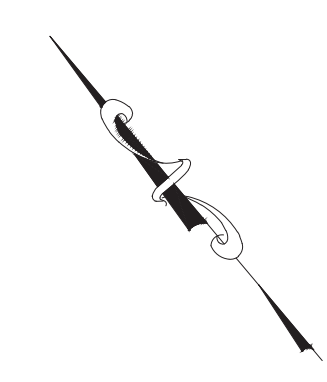
PLANS PREPARED BY:

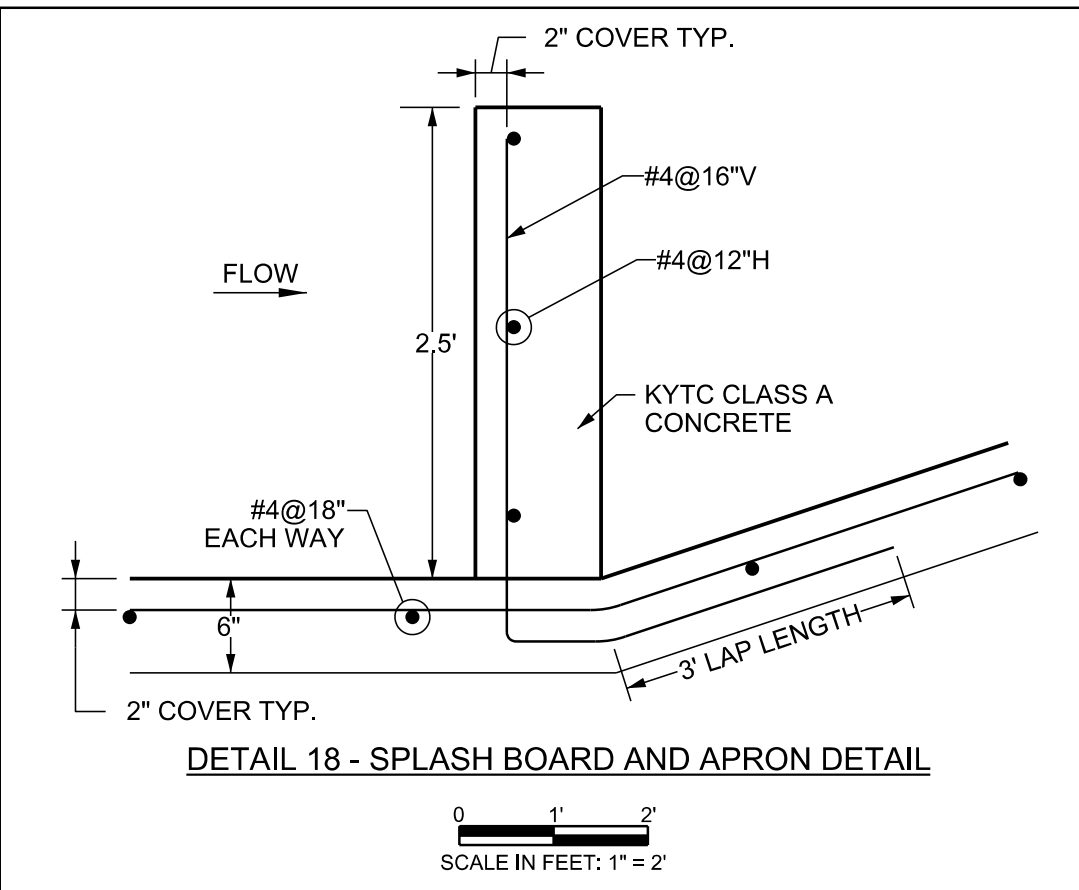
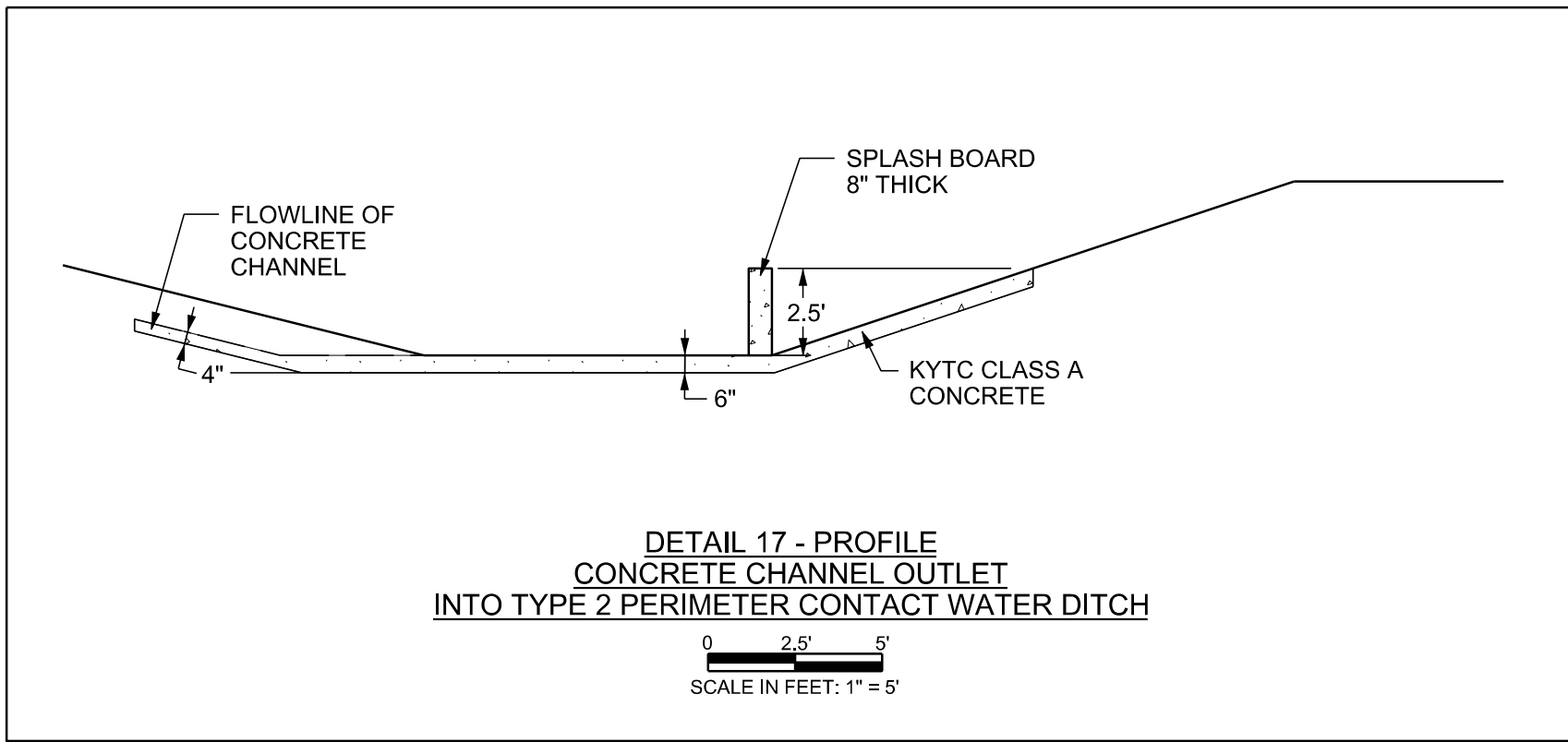
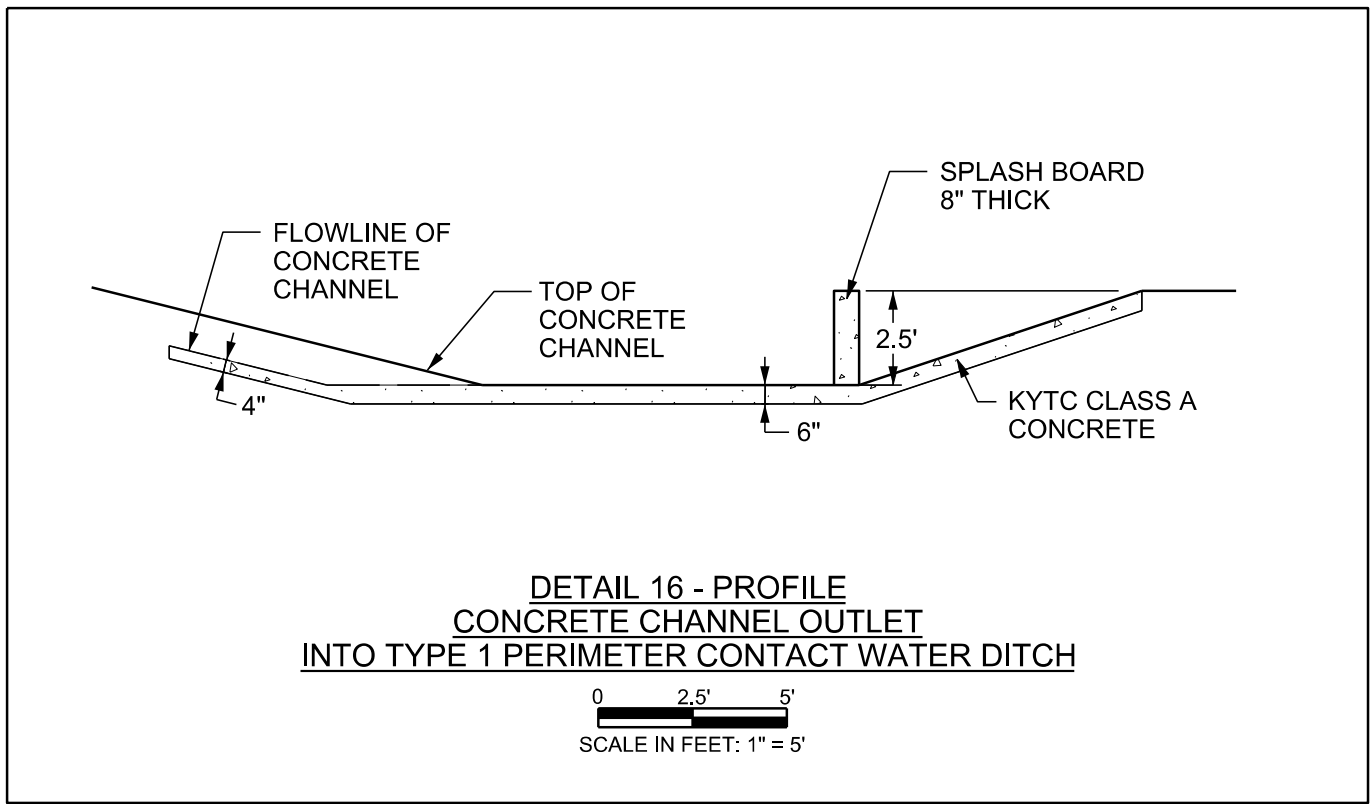
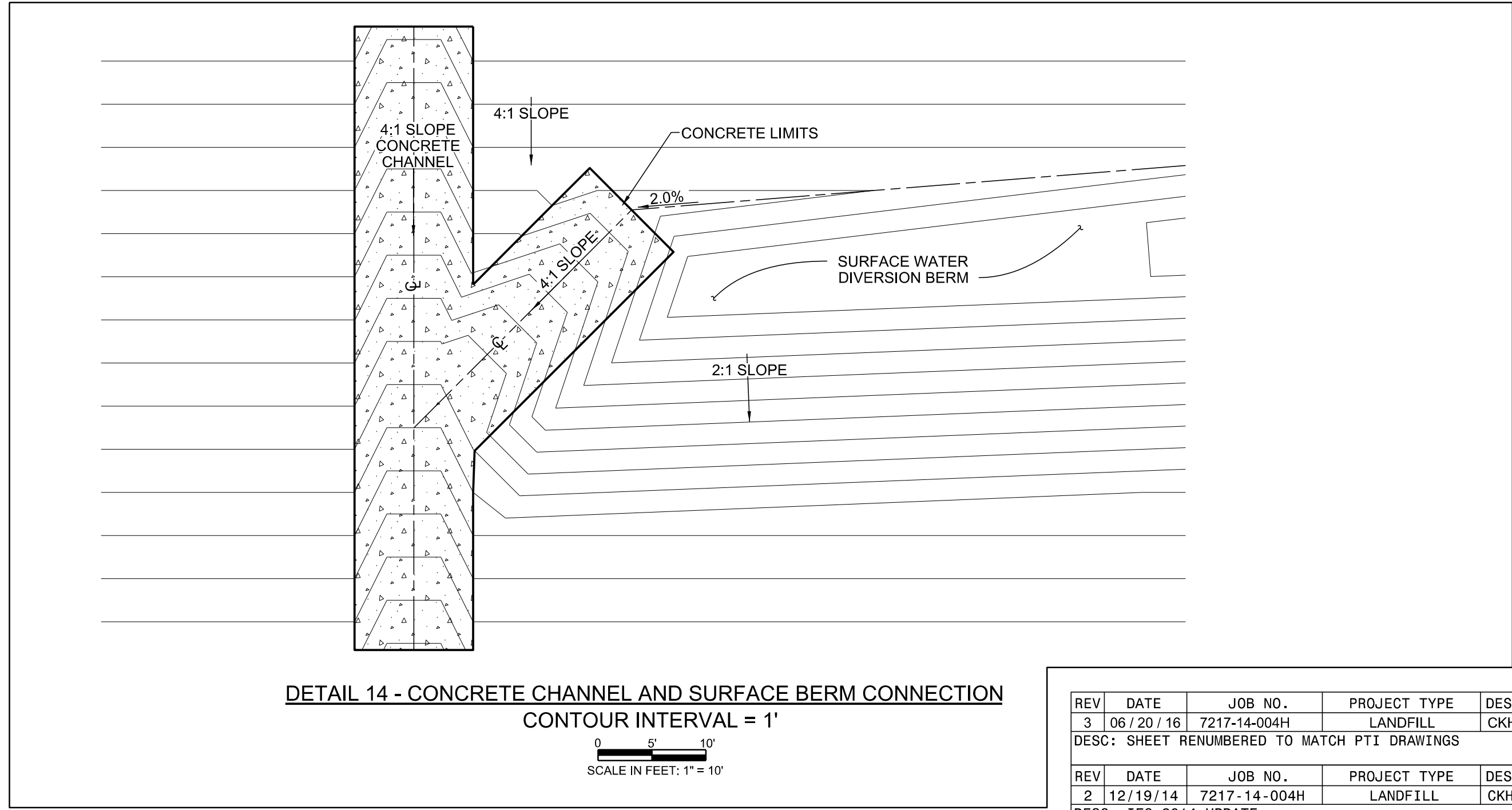
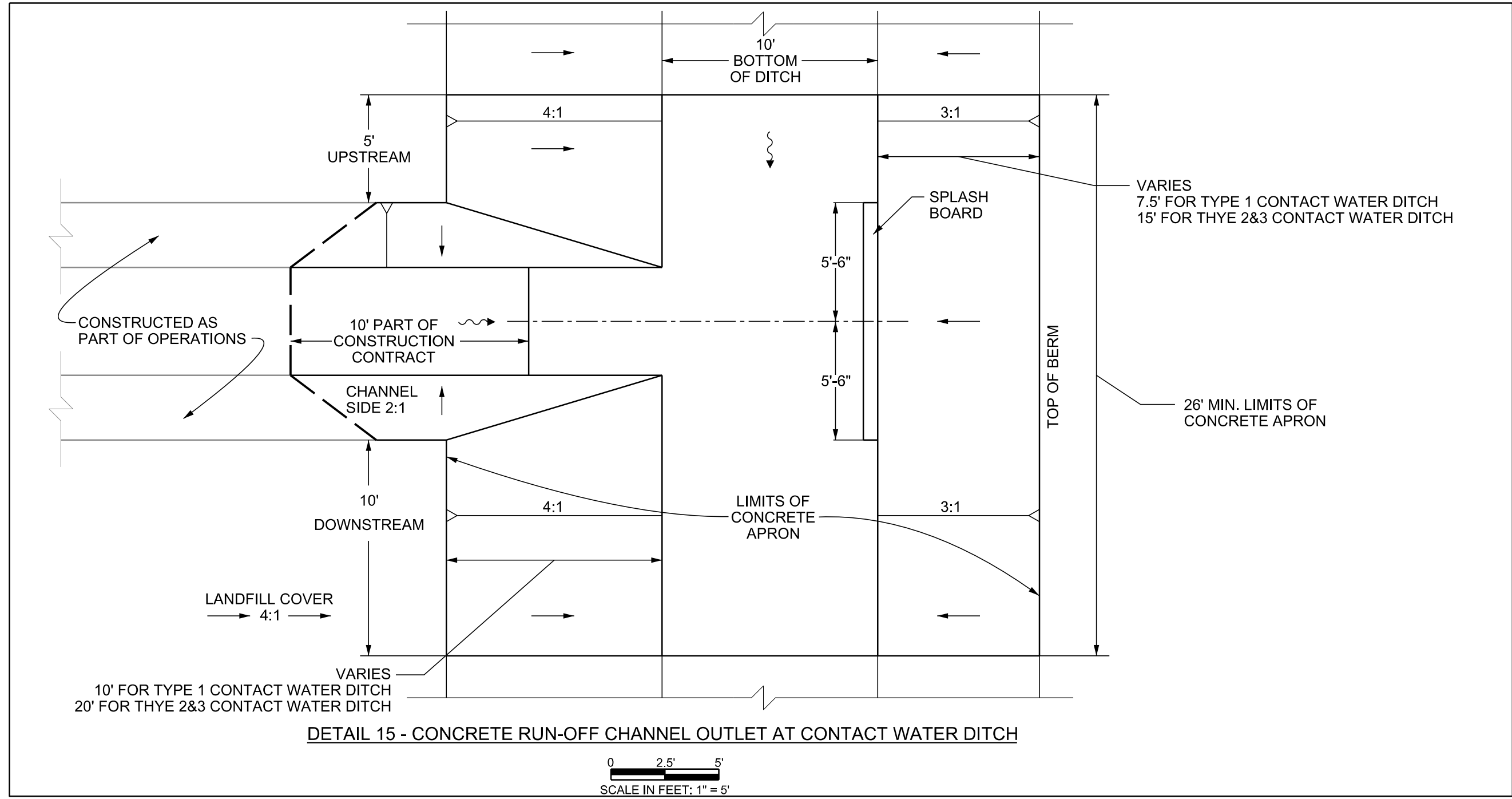
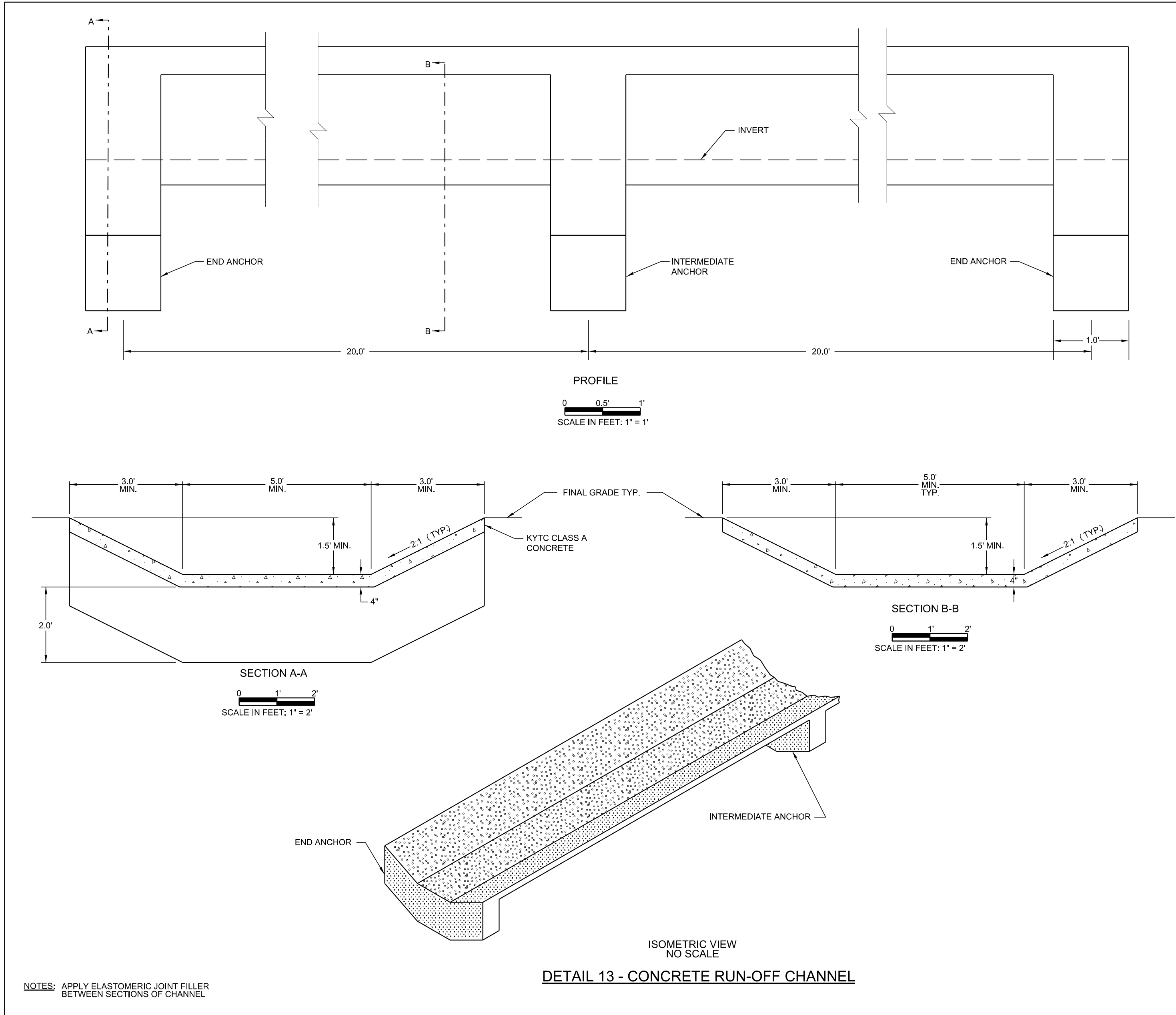
S&M, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226



- LEGEND**
- PROPERTY LINE
 - PROPOSED CELL 2 MAJOR CONTOURS
 - PROPOSED CELL 2 MINOR CONTOURS
 - 490 — EXISTING/PREVIOUSLY CONSTRUCTED MAJOR CONTOURS
 - EXISTING/PREVIOUSLY CONSTRUCTED MINOR CONTOURS
 - - - LIMITS OF WASTE
 - - - PROPOSED SURFACE WATER BERMS, SEE DETAIL 24

- CHIMNEY DRAIN LOCATION AT TOP OF CELL/TERMINATION LOCATION, APPROX.
- FINAL GRADE CELL 1 MAJOR CONTOURS
- FINAL GRADE CELL 1 MINOR CONTOURS





REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
3	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: IFC-2014 UPDATE								
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
1	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	03/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: ISSUED FOR PTI								

TITLE

DETAILS - CONCRETE CHANNEL

EAST BEND STATION

WEST SPECIAL WASTE LANDFILL

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

SCALE: AS NOTED

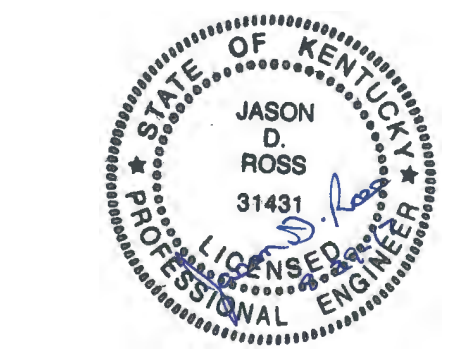
DWG TYPE: CIVIL

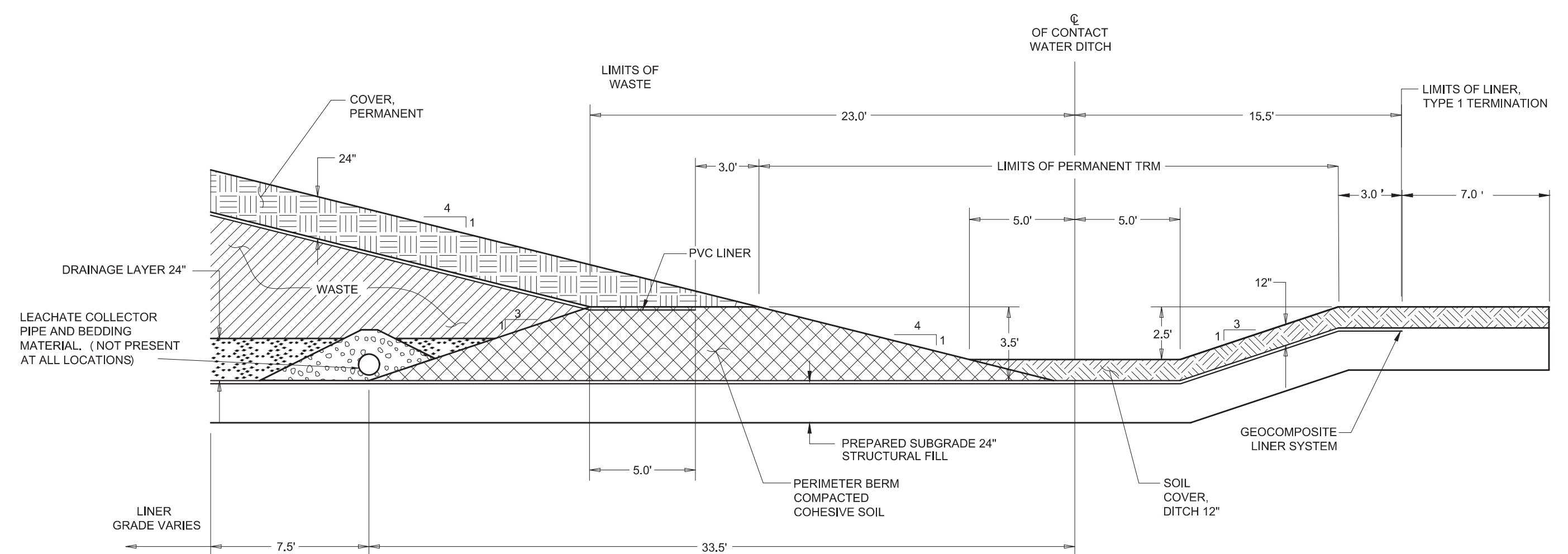
JOB NO:

DATE: 03/2007

FILENAME: EBS_WESTLF_33.dgn ENGINEERING FIRM 03530

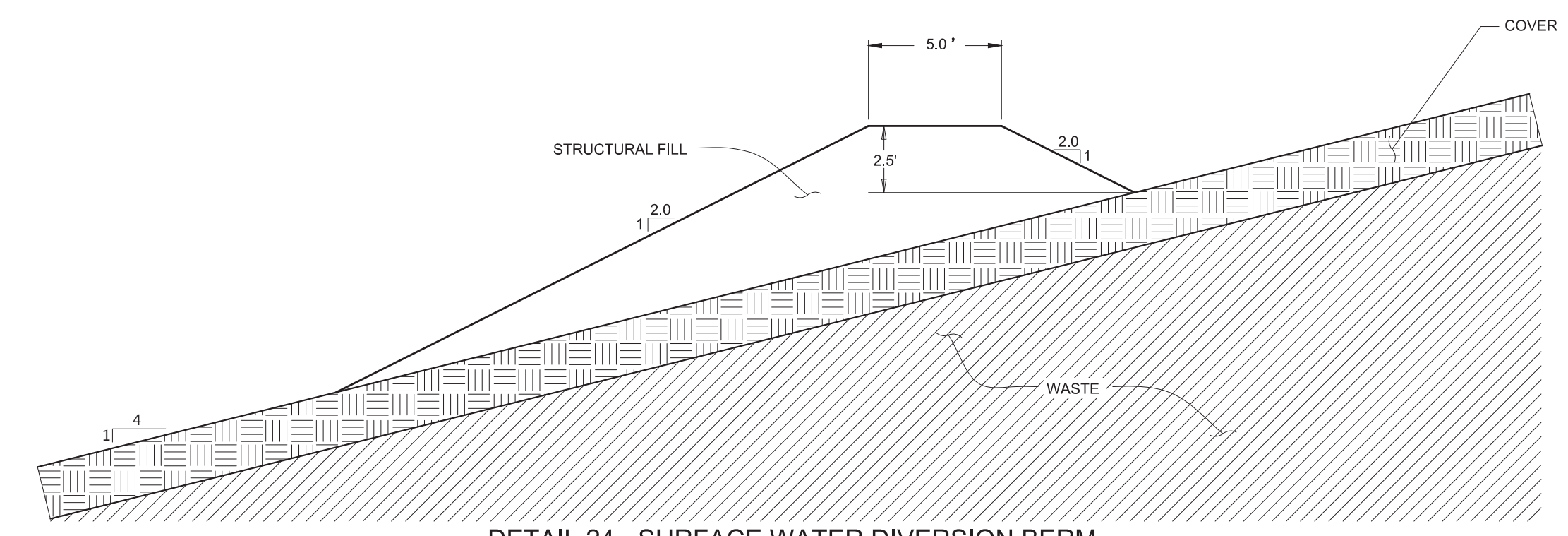
DWG SIZE	DRAWING NUMBER	REVISION
ANSI D 22.0"X34.0"	EBS_WESTLF_33	3





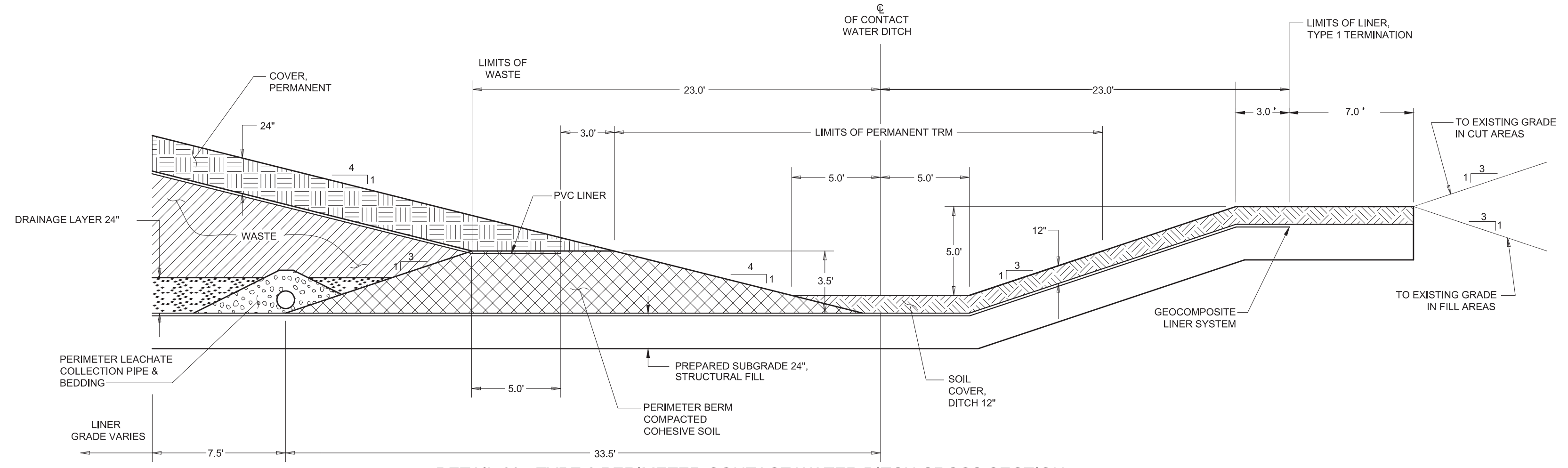
DETAIL 19 - TYPE 1 PERIMETER CONTACT WATER DITCH CROSS SECTION

SCALE IN FEET: 1" = 5'



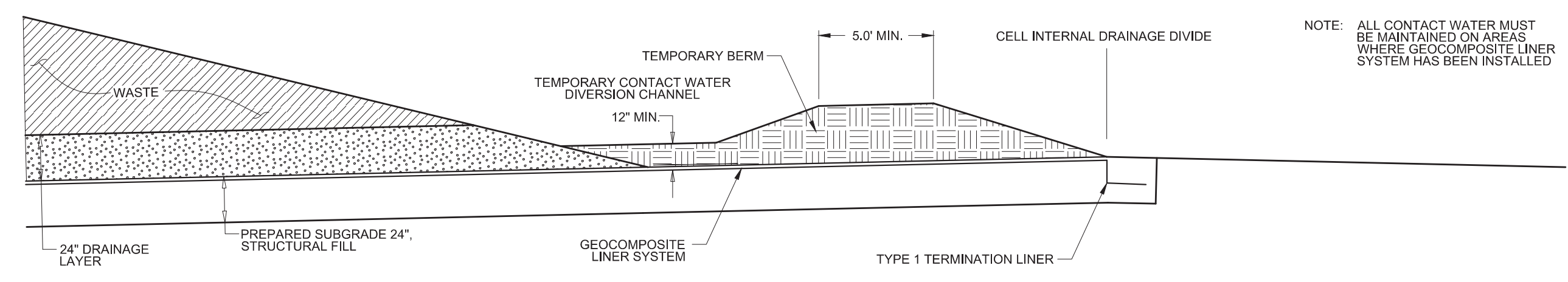
DETAIL 24 - SURFACE WATER DIVERSION BERM

SCALE IN FEET: 1" = 5'



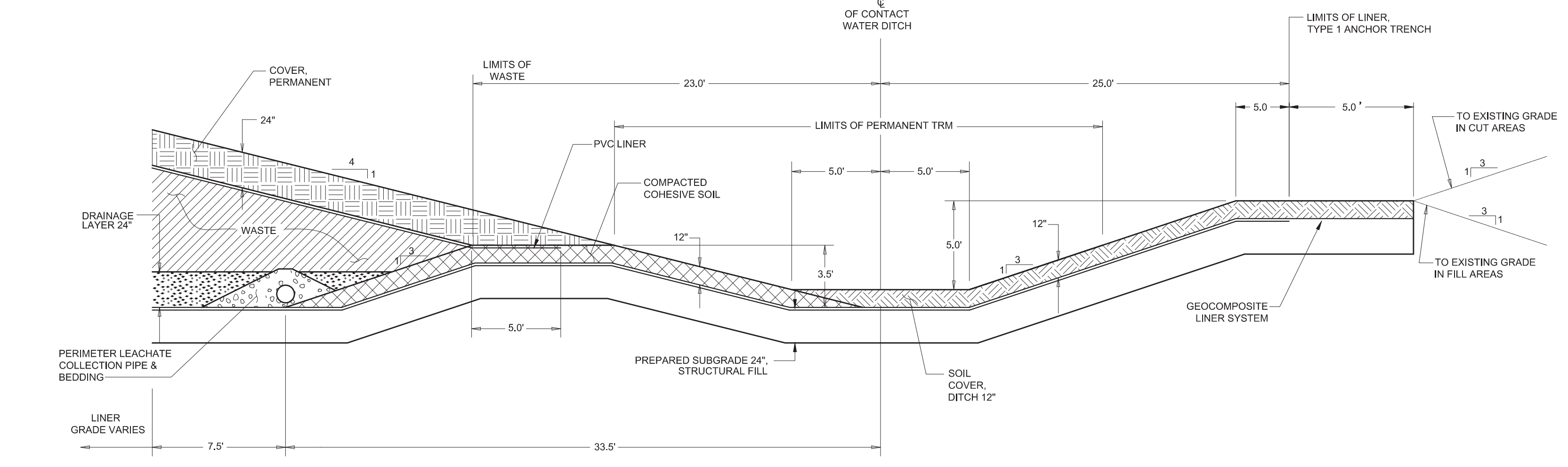
DETAIL 20 - TYPE 2 PERIMETER CONTACT WATER DITCH CROSS SECTION

SCALE IN FEET: 1" = 5'



DETAIL 25 - CONTACT WATER CONTROL FOR PHASED CELL CONSTRUCTION

SCALE IN FEET: 1" = 5'



DETAIL 21 - TYPE 3 PERIMETER CONTACT WATER DITCH CROSS SECTION

SCALE IN FEET: 1" = 5'

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
5	04/13/18	7217-17-017	LANDFILL	CKH	HCC	MRM	MGR	MGR
DESC: CELL 2 IFC, LEACHATE PIPE ADJUST								
4	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH P/TI DRAWINGS								
3	10/16/15	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: MOVED DETAILS 22 AND 23 TO SHEET 26C								
2	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED								
1	04/20/09	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
0	03/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: IFC-2014 UPDATE								

DETAILS - SURFACE WATER CONTROLS

PLANS PREPARED BY:



S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

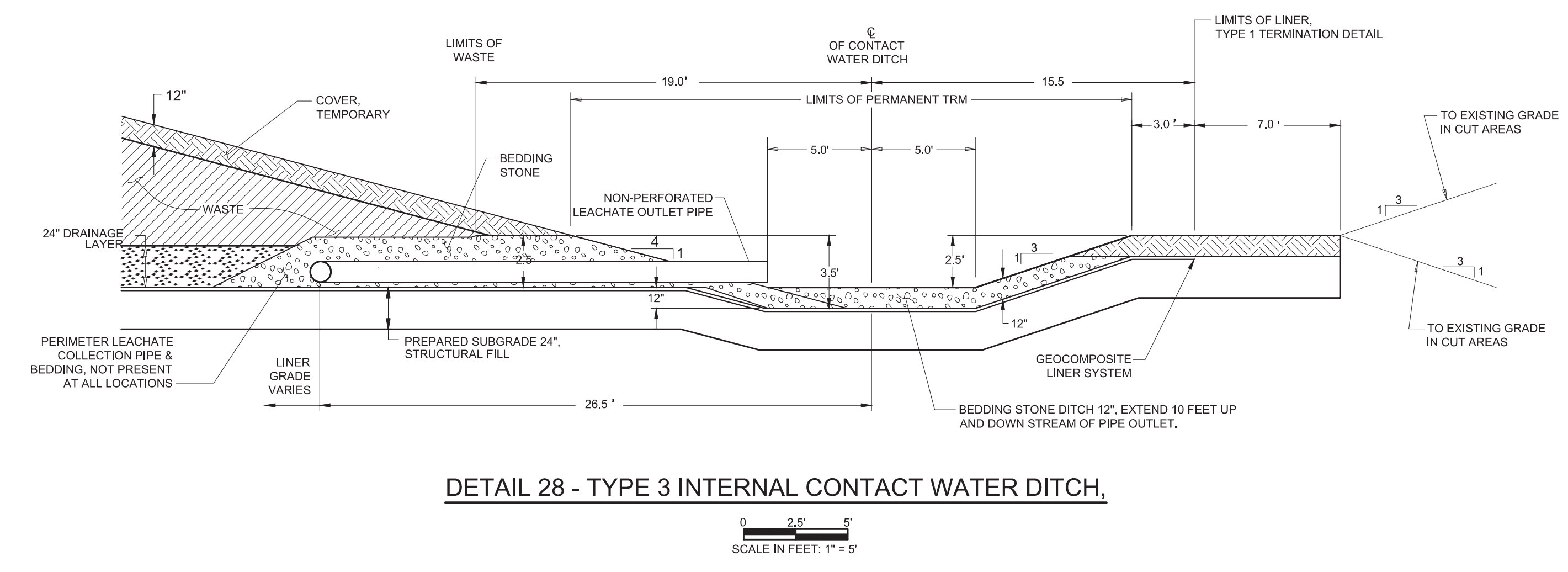
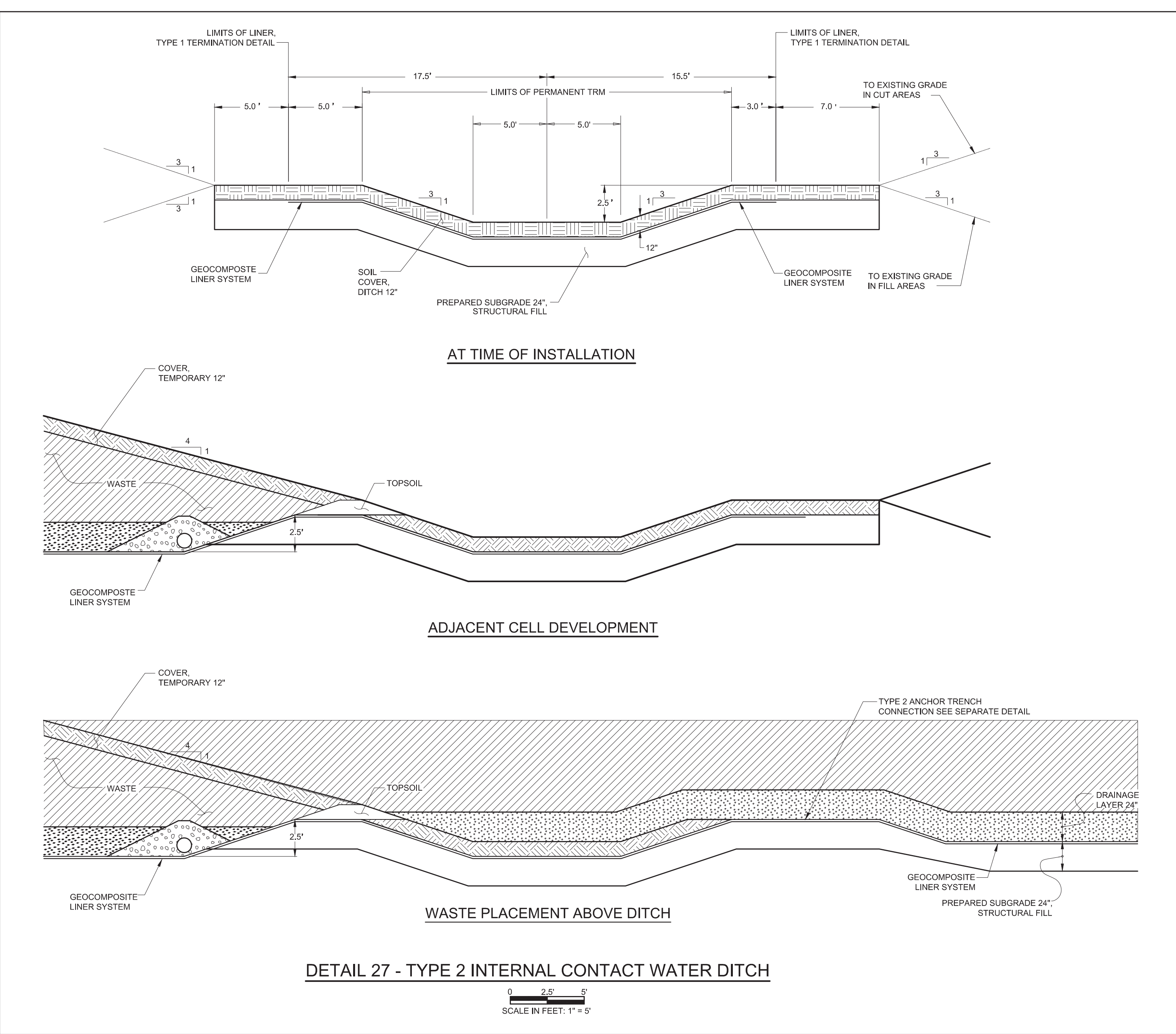
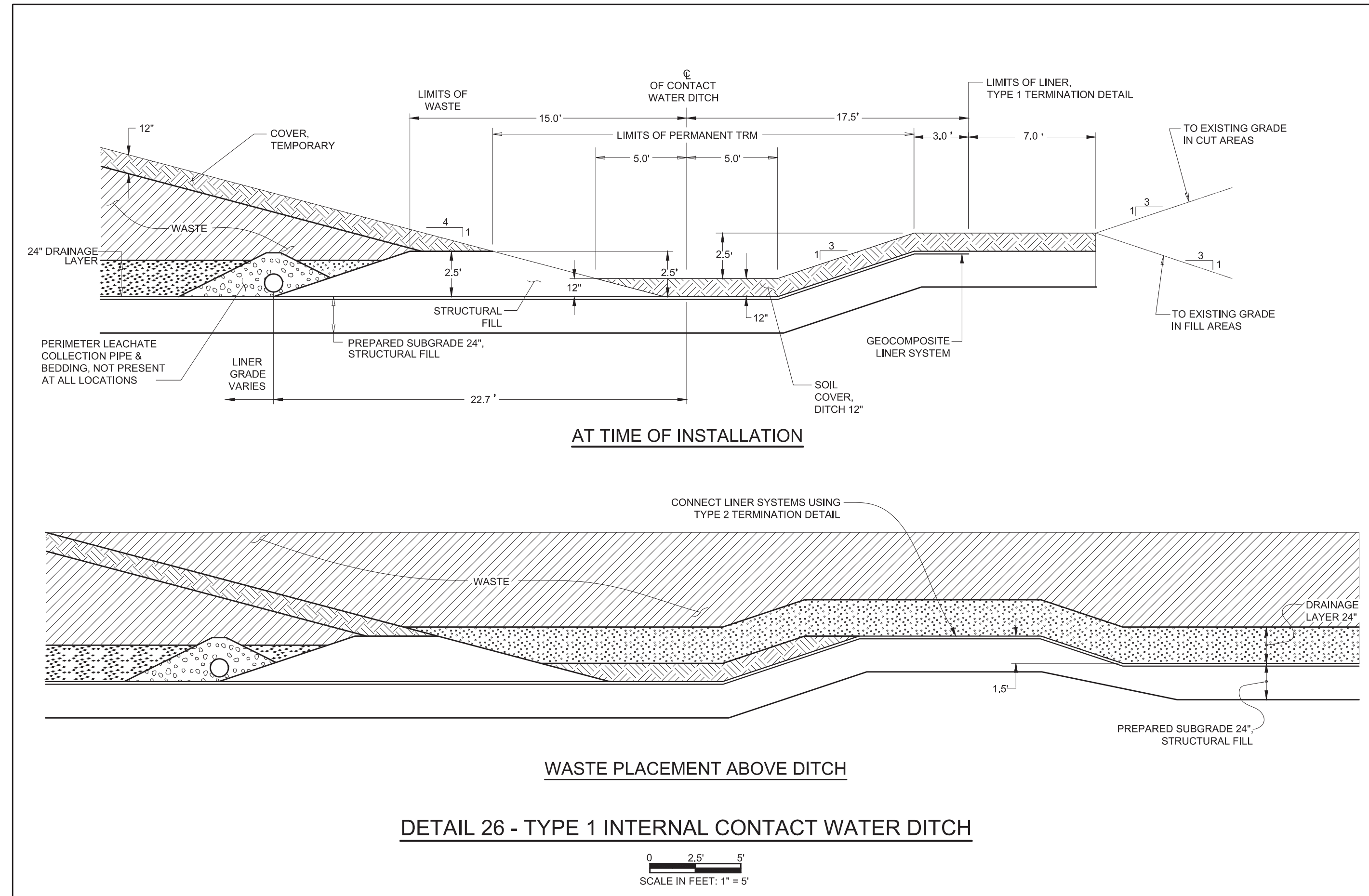


FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

SCALE:	AS NOTED
DWG TYPE:	CIVIL
JOB NO.:	011-09323-004
DATE:	03/2007

FILENAME: EBS_WESTLF_34.dwg ENGINEERING PERMIT 602

DWG SIZE	DRAWING NUMBER	REVISION
ANSI D 22.0"X34.0"	EBS_WESTLF_34	5



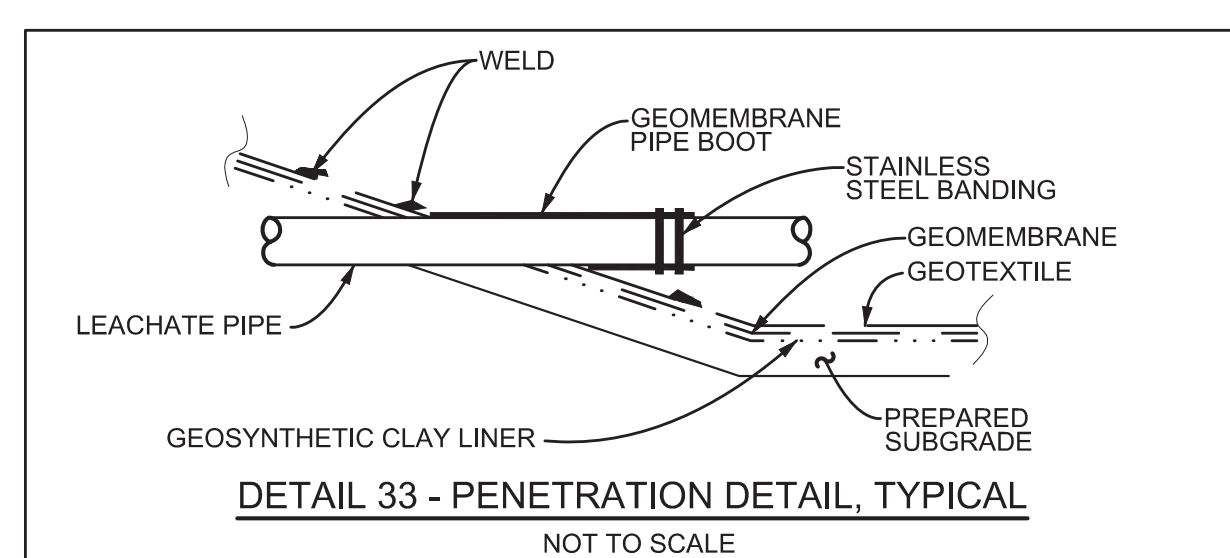
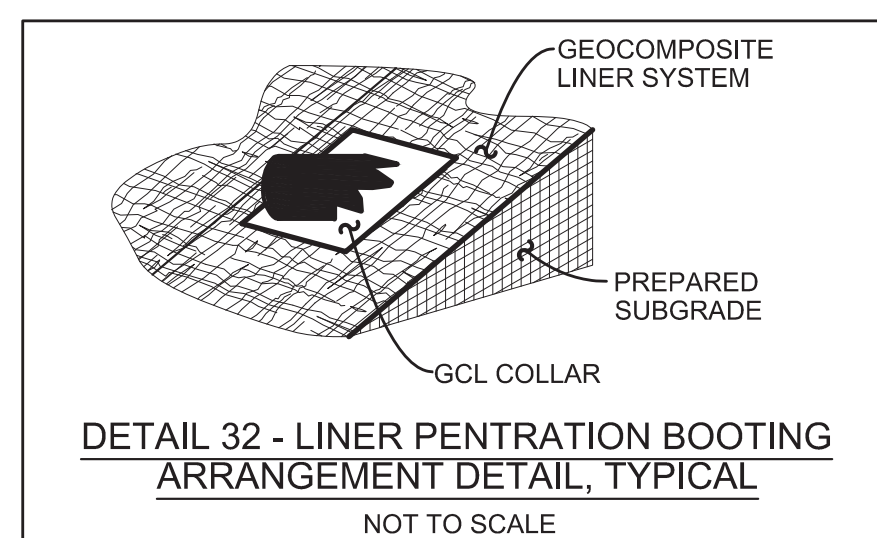
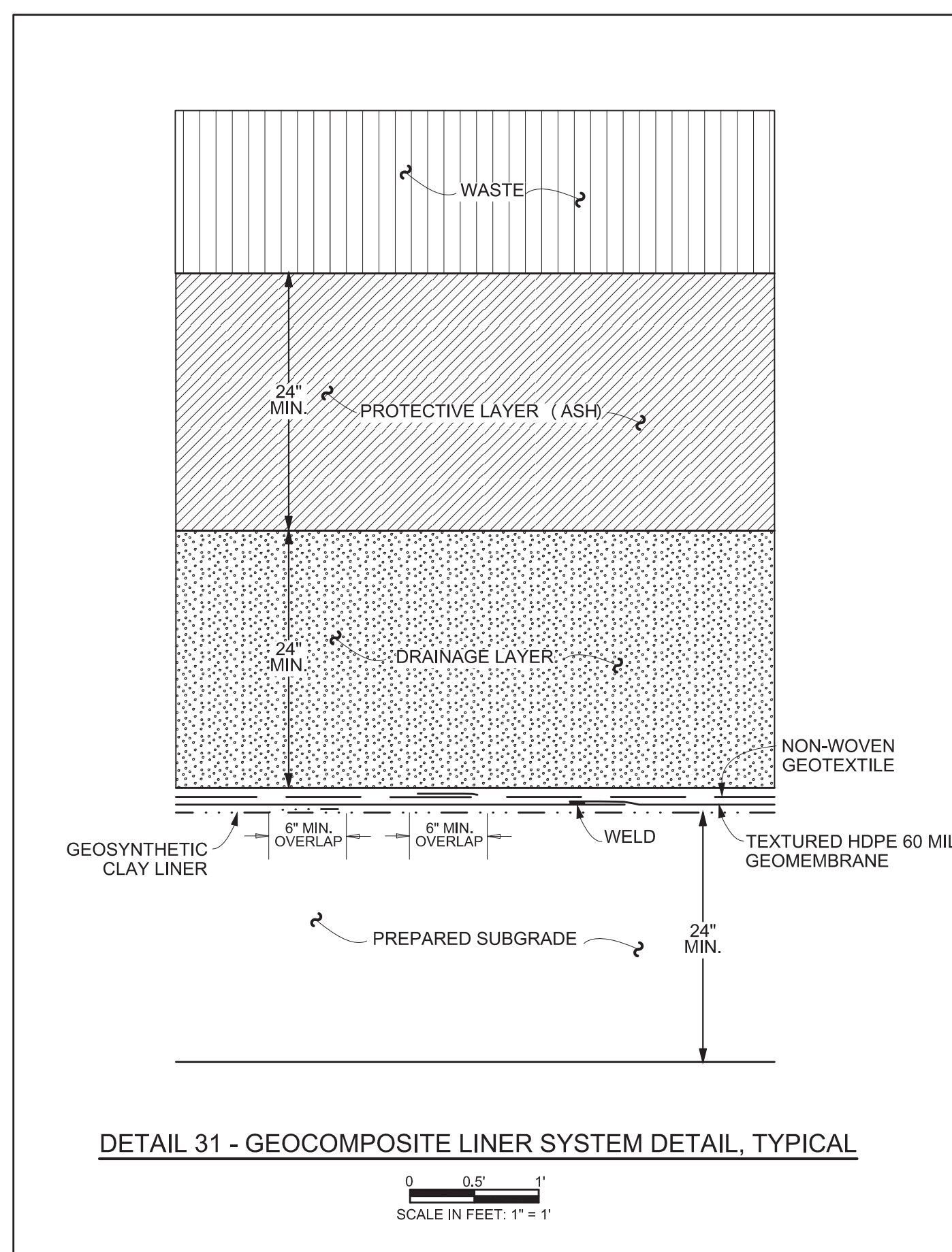
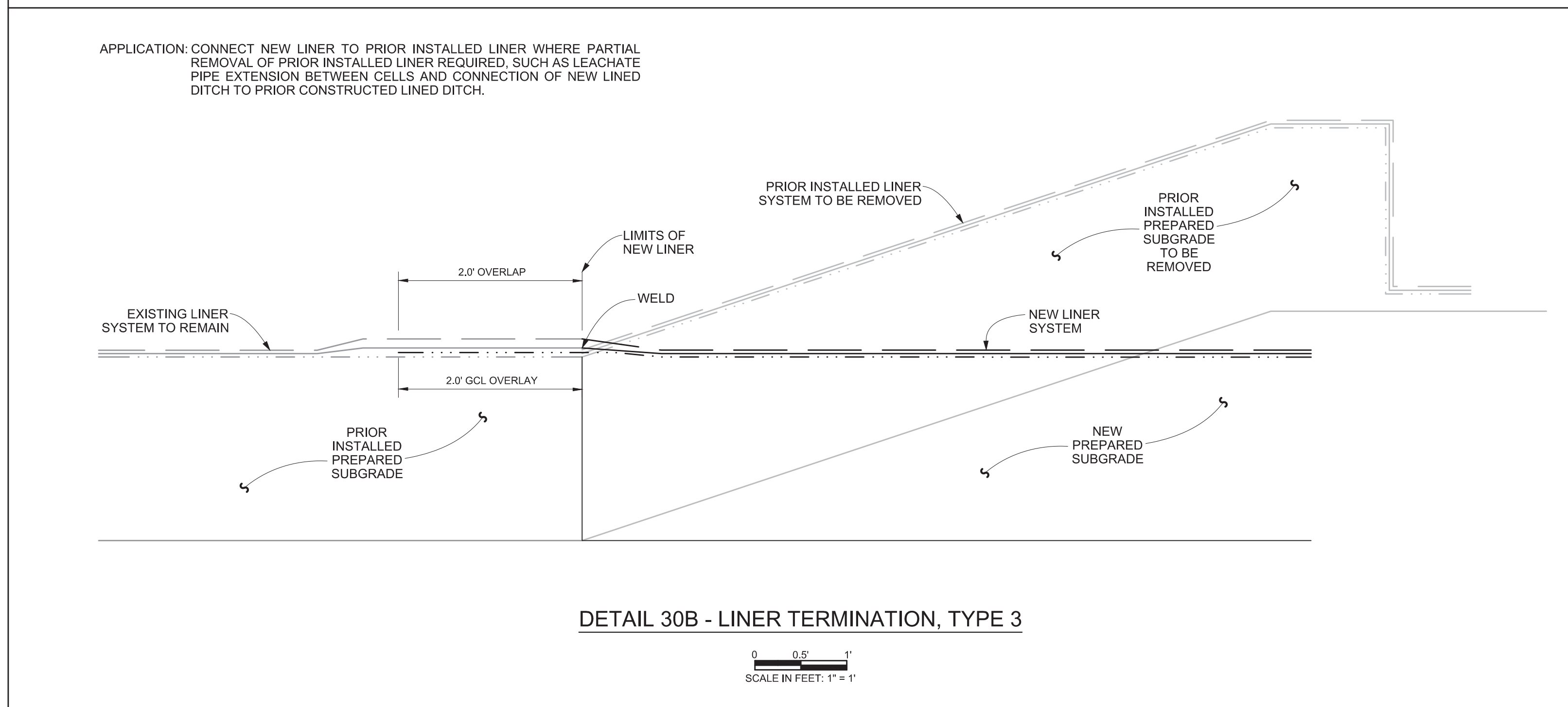
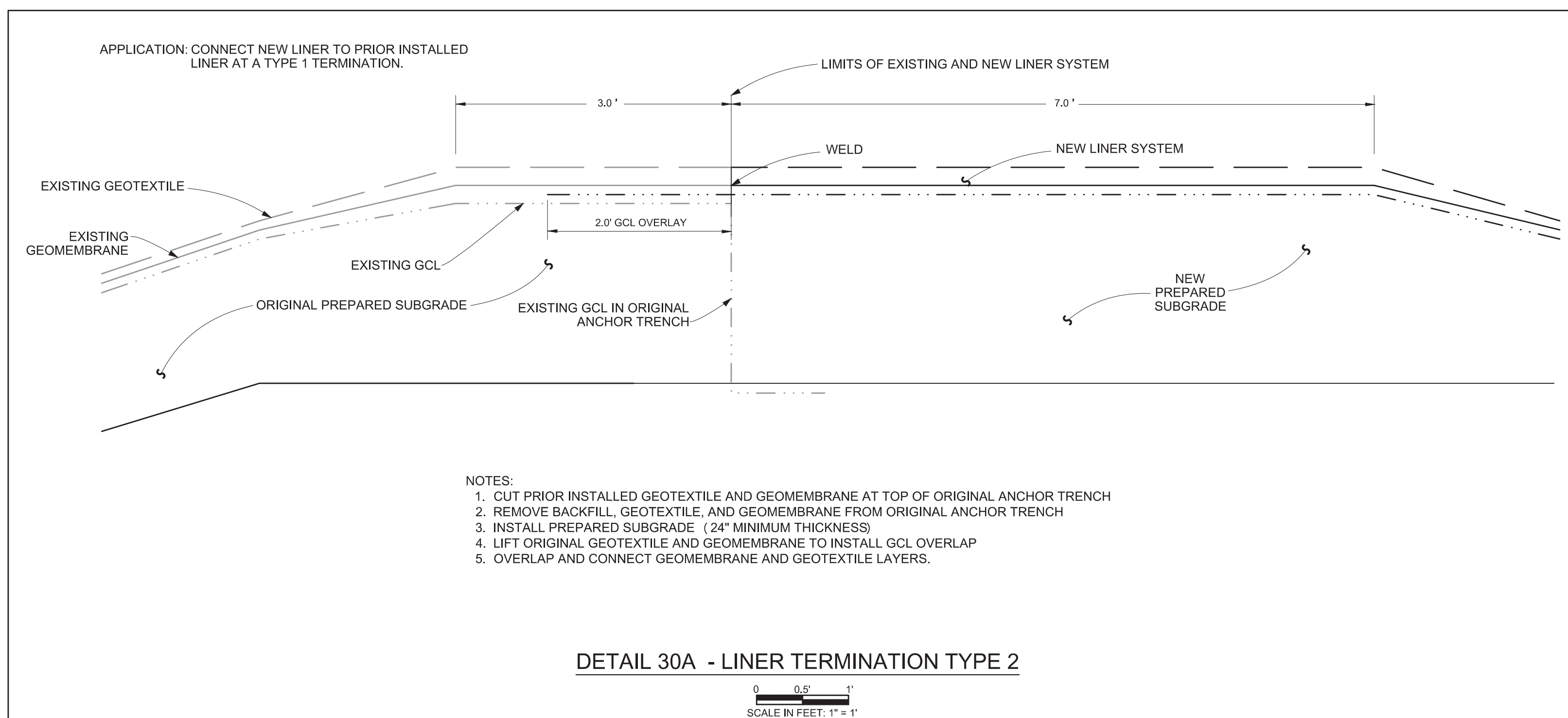
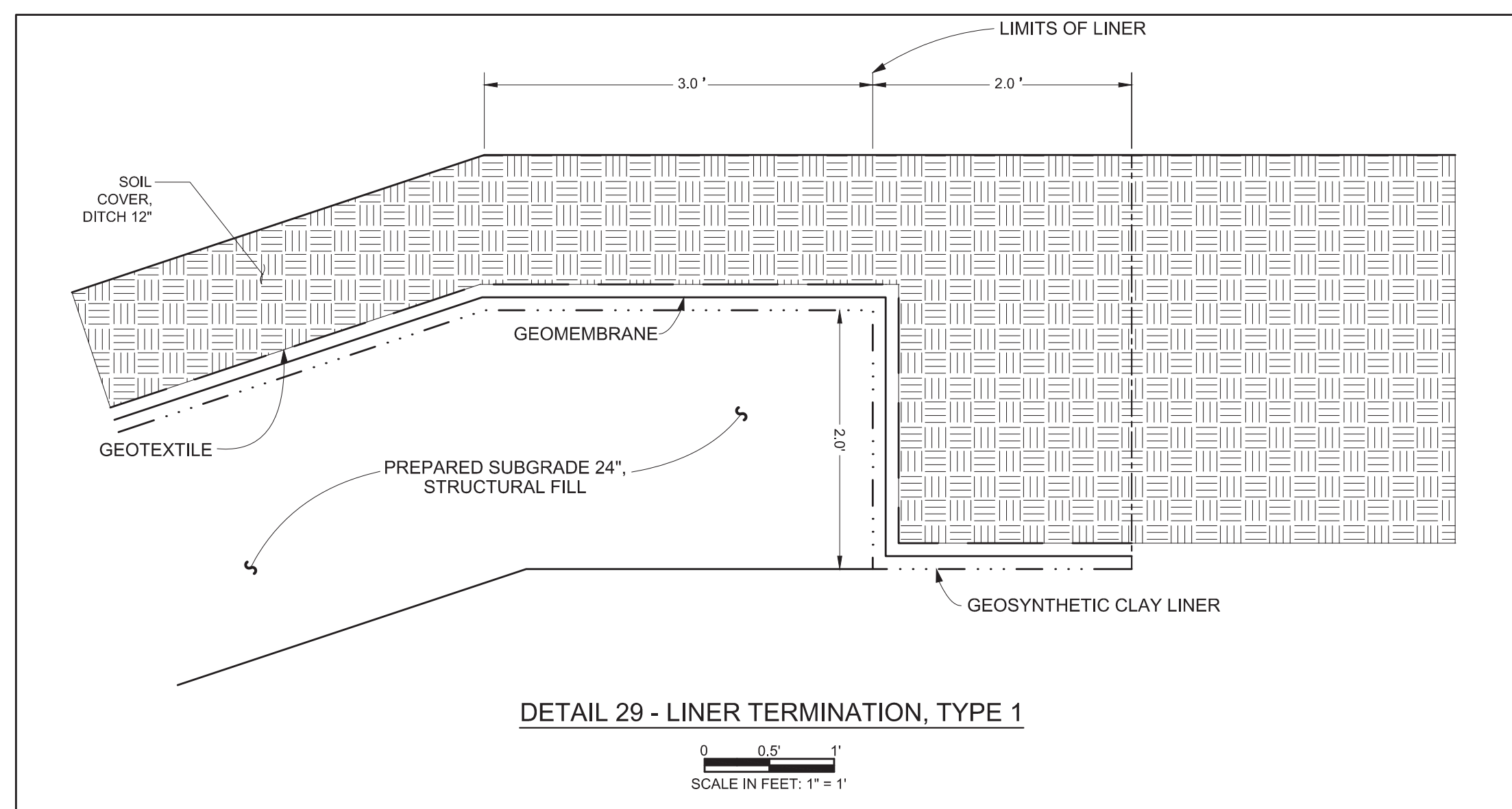
PLANS PREPARED BY:

S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
4	04 / 13 / 18	7217-17-017	LANDFILL	CKH	HCC	MRM	MGR	MGR
DESC: CELL 2 IFC, LEACHATE PIPE ADJUST								
3	06 / 20 / 16	7217-14-004H	LANDFILL	CKH	IDT	CKH	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: IFC UPDATE								
1	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
0	03/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: PTI								

TITLE		
DETAILS - SURFACE WATER CONTROLS		
FOR		
EAST BEND STATION - WEST SPECIAL WASTE LANDFILL		
	SCALE: AS NOTED	
	DWG TYPE: CIVIL	
	JOB NO: 011-09323-004	
	DATE: 03/2007	
FILENAME: EBS_WESTLF_35.dwg	ENGINEERING PERMIT 602	
DWG SIZE	DRAWING NUMBER	REVISION
ANSI D 22.0"x34.0"	EBS_WESTLF_35	4



PLANS PREPARED BY:

S&M.E. INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD	TITLE
5	04/13/18	7217-17-017	LANDFILL	CKH	HCC	CKH	PSS	MGR	DETAILS - LINER
DESC: CELL 2 IFC, MODIFIED TERMINATION DETAILS									
4	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR	DETAILS - LINER
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS									
3	03/11/16	7217-14-004U	LANDFILL	CKH	MES	CKH	MGR	MGR	DETAILS - LINER
DESC: SUBSTITUTE GCL MATERIAL									
2	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR	DETAILS - LINER
DESC: SHEET RENUMBERED									
1	04/20/09	011-09323-010	LANDFILL	CKH	EDY	SJL	SJL	SJL	DETAILS - LINER
DESC: IFC, SHEET RENUMBERED									
0	03/20/07	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL	DETAILS - LINER
DESC: IFC-2014 UPDATE									

DETAILS - LINER

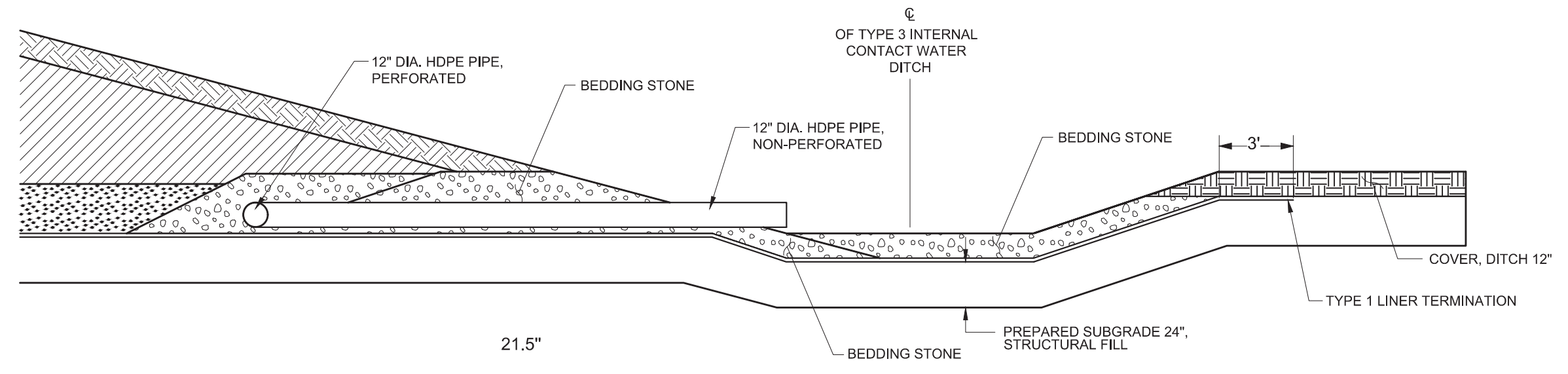
FOR **EAST BEND STATION - WEST SPECIAL WASTE LANDFILL**

DUKE ENERGY

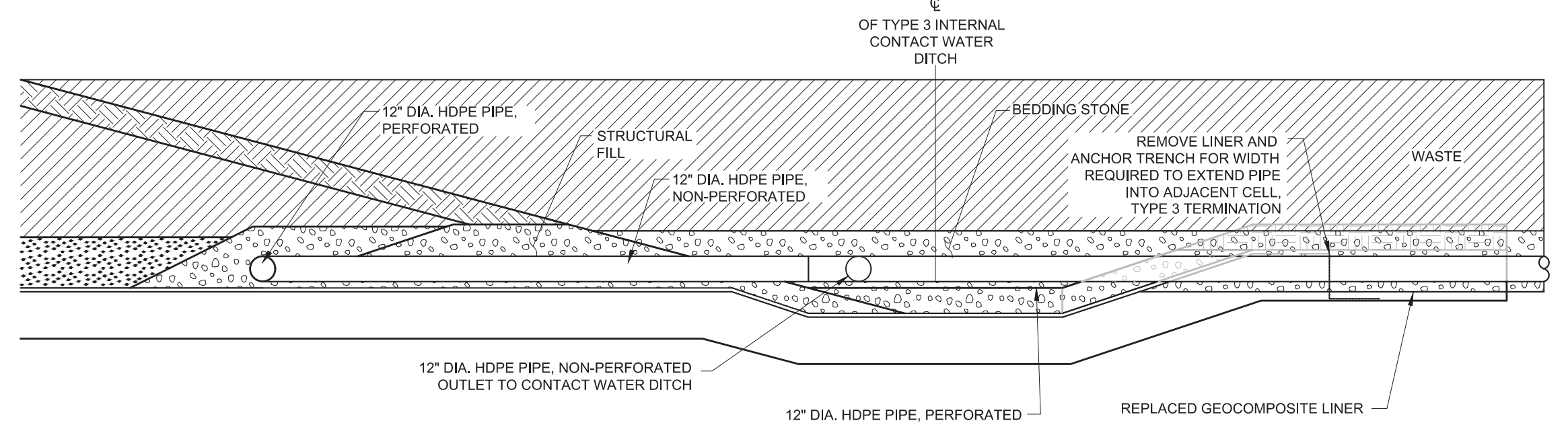
SCALE: AS NOTED
DWG TYPE: CIVIL
JOB NO: 011-09323-004
DATE: 03/2007

FILENAME: EBS_WESTLF_36.dwg KY FIRM PERMIT 602

DWG SIZE	DRAWING NUMBER	REVISION
ANSI D 22.0"X34.0"	EBS_WESTLF_36	5

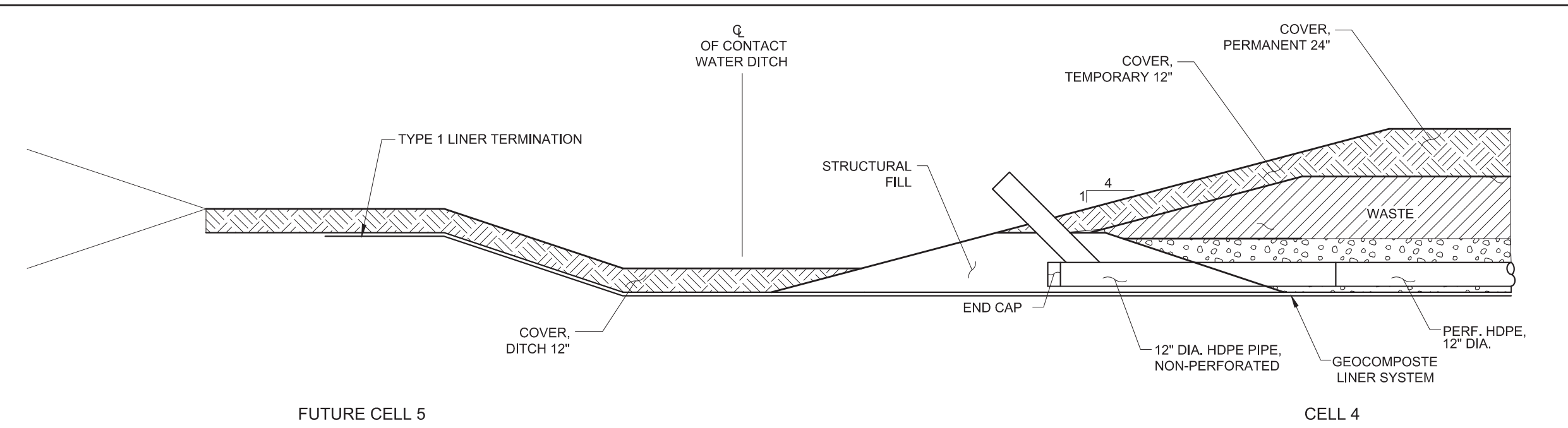


OUTLET TO INTERNAL CONTACT WATER DITCH

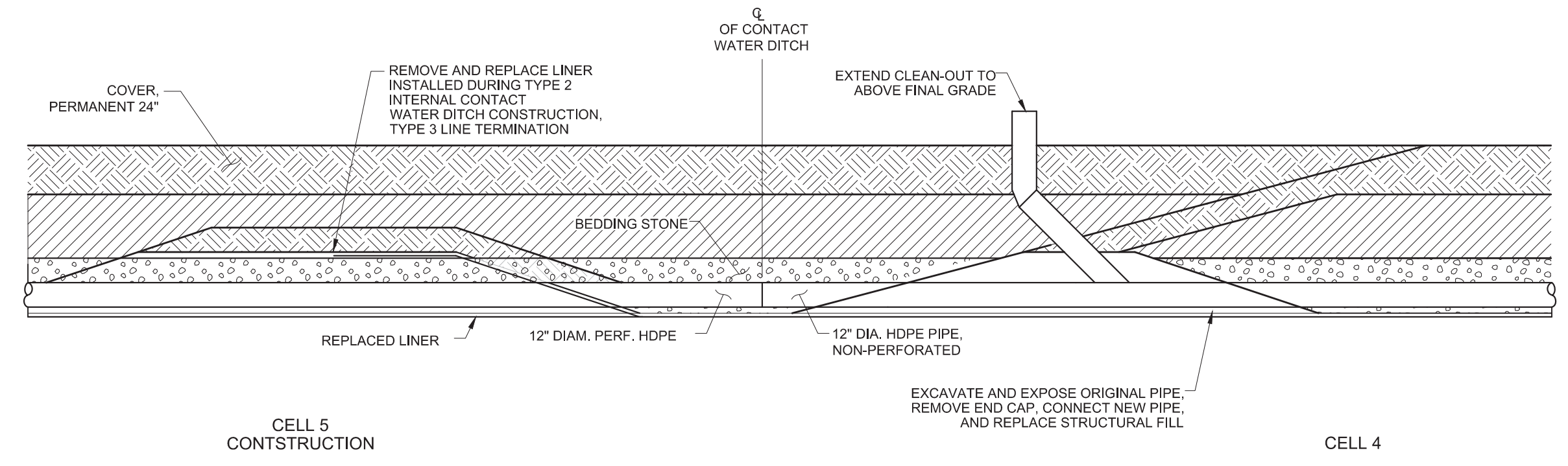


(CELL 1 TO CELL 2 AND CELL 2 TO CELL 3)

DETAIL 34 - DOWNSTREAM EXTENSION OF LEACHATE PIPE

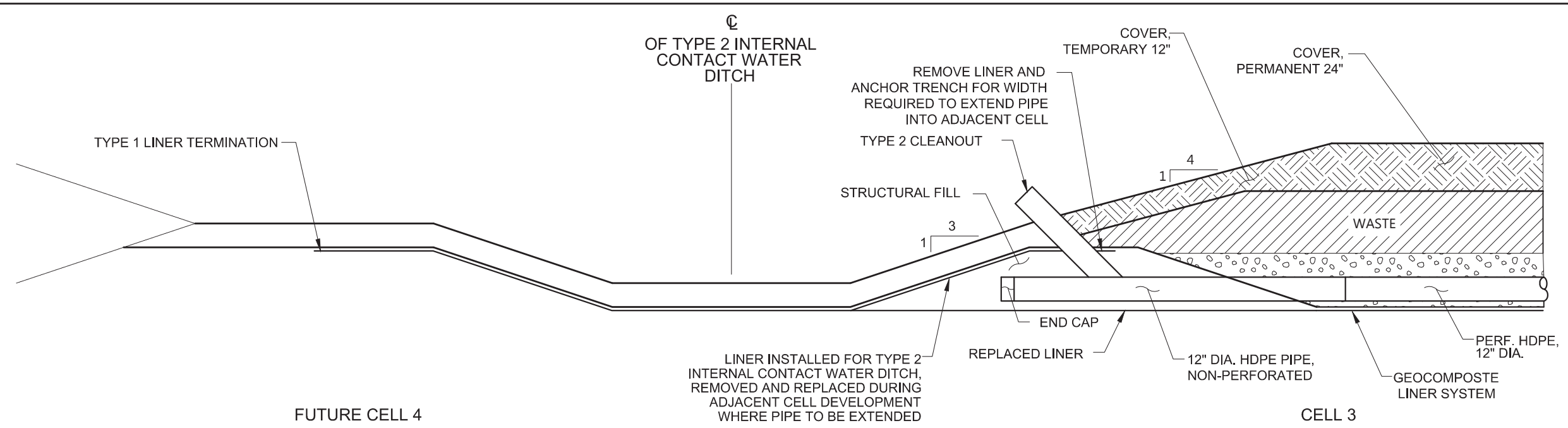


FROM CELL 4 TO CELL 5 INITIAL PIPE INSTALLATION

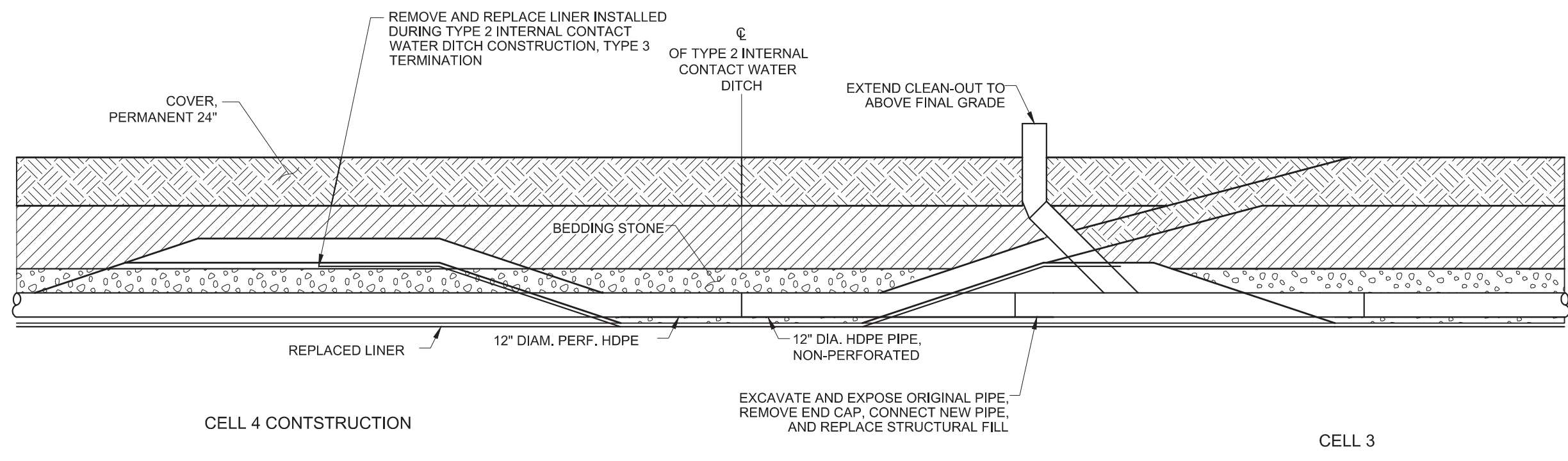


PIPE EXTENSION

DETAIL 35 - UPSTREAM EXTENSION OF PERIMETER LEACHATE PIPE

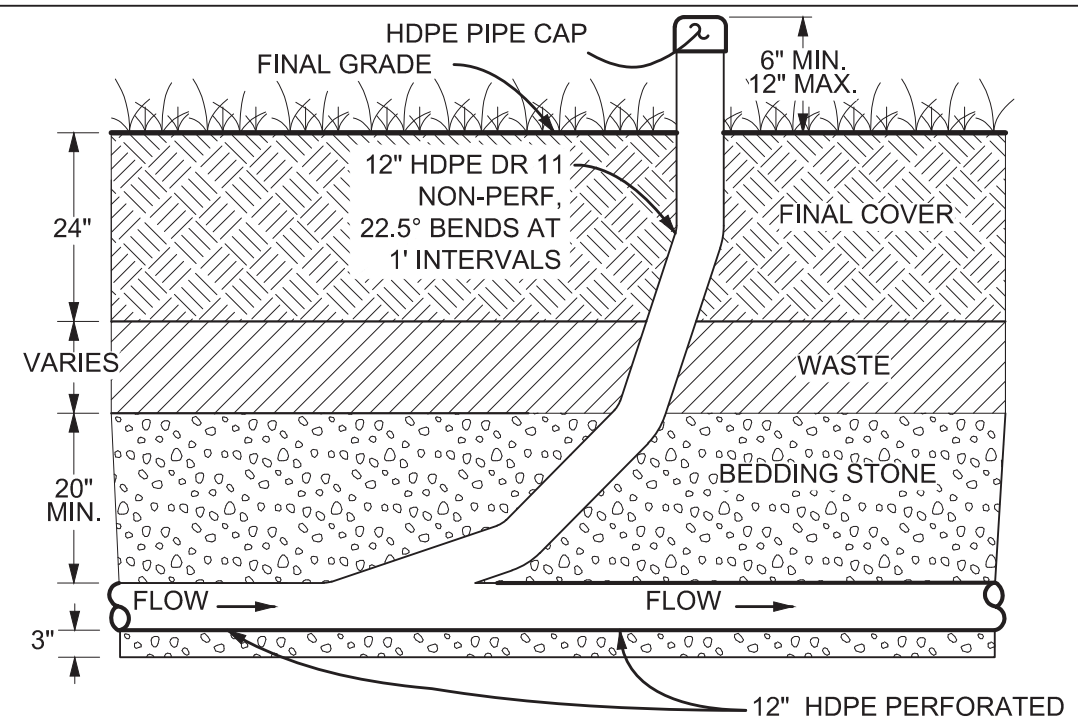


FROM CELL 3 TO CELL 4 INITIAL PIPE INSTALLATION

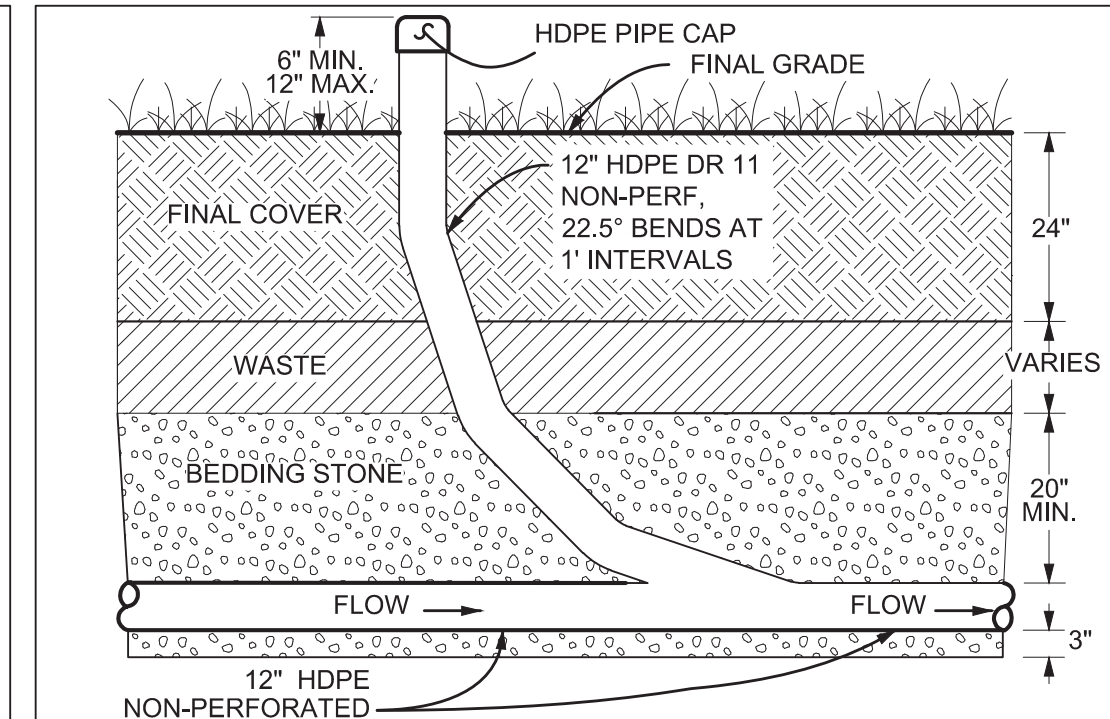


PIPE EXTENSION

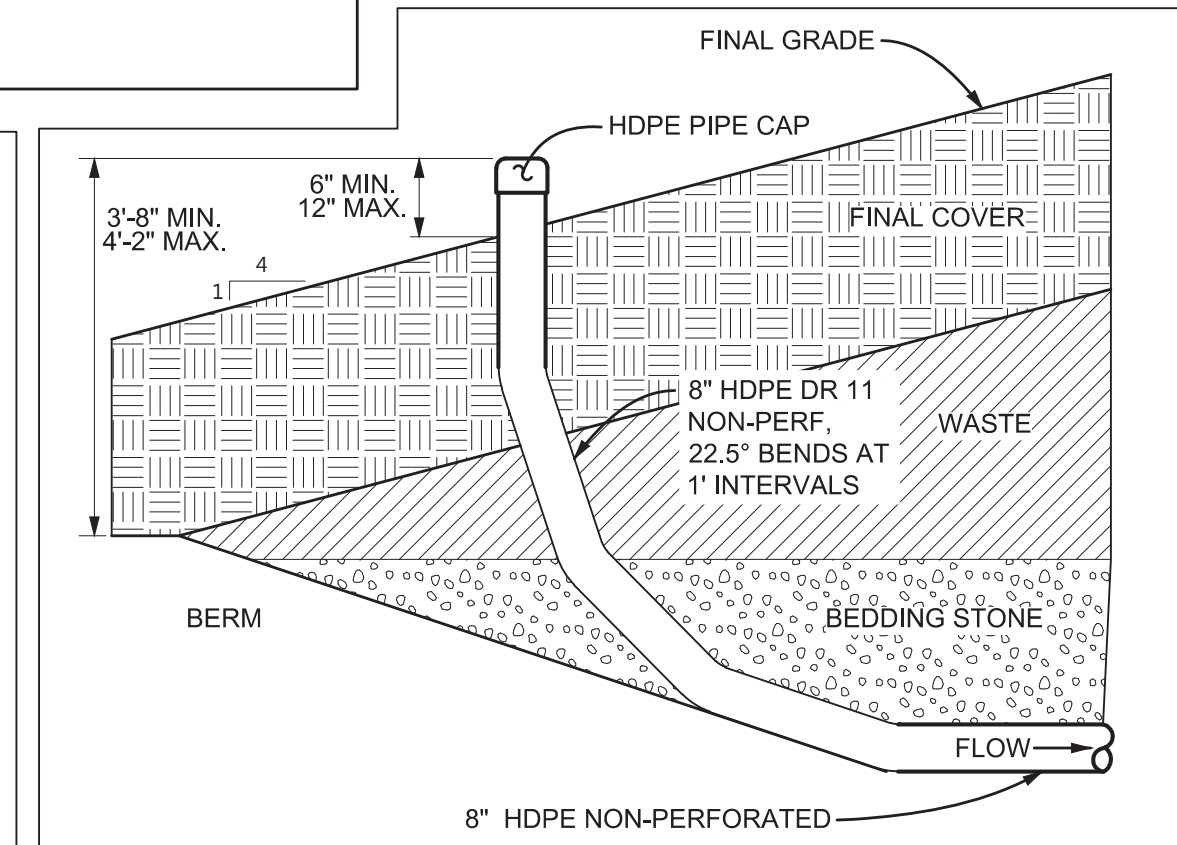
DETAIL 36 - UPSTREAM EXTENSION OF PERIMETER LEACHATE PIPE



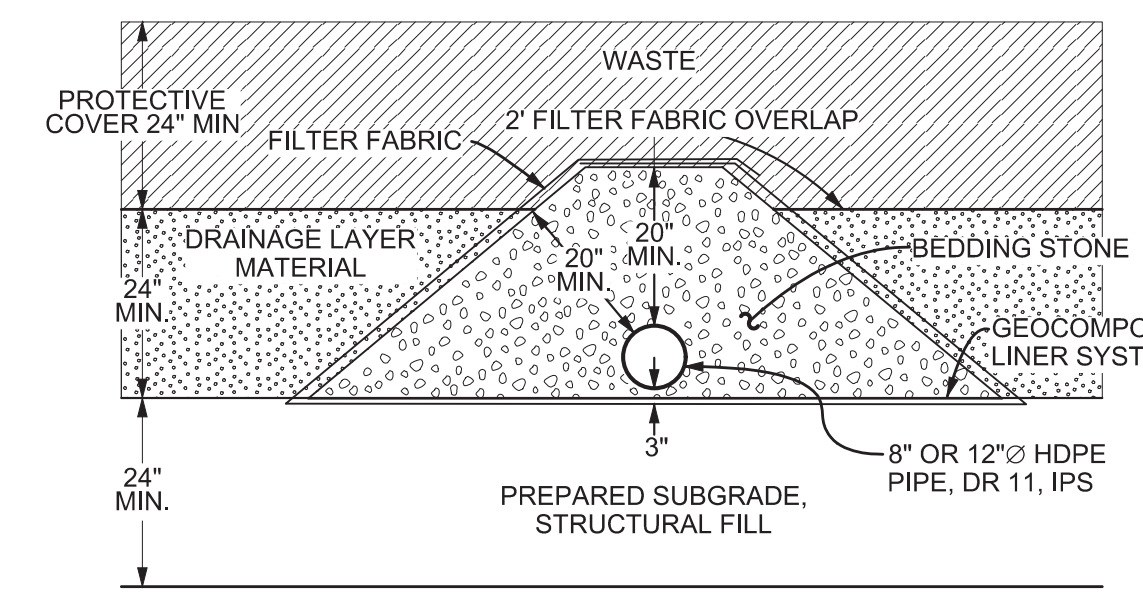
DETAIL 37 - TYPE 1 CLEANOUT DETAIL, TYPICAL



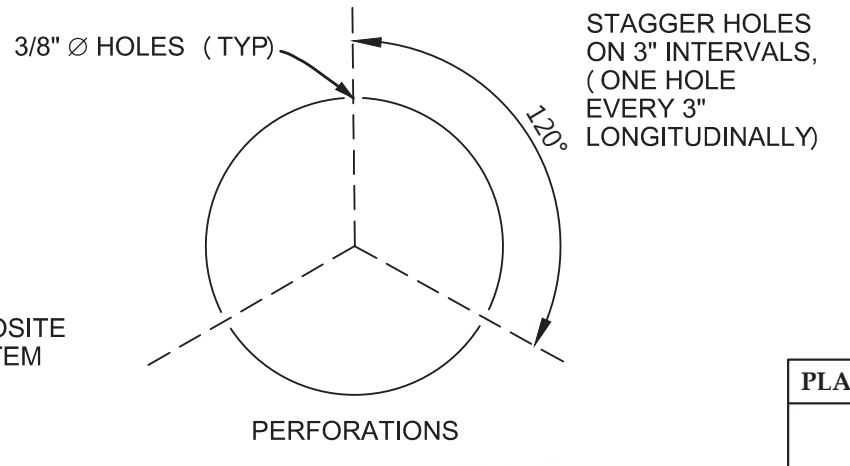
DETAIL 38 - TYPE 2 CLEANOUT DETAIL, TYPICAL



DETAIL 38A - TYPE 3 CLEANOUT DETAIL



DETAIL 39 - LEACHATE COLLECTION PIPES



PERFORATIONS

PLANS PREPARED BY:



REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
1	12/2007	011-09323-008	LANDFILL	CKH	BLR	SJL	SJL	SJL

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	03/2007	011-09323-008	LANDFILL	CKH	BLR	SJL	SJL	SJL

TITLE

DETAILS - LEACHATE SYSTEM

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

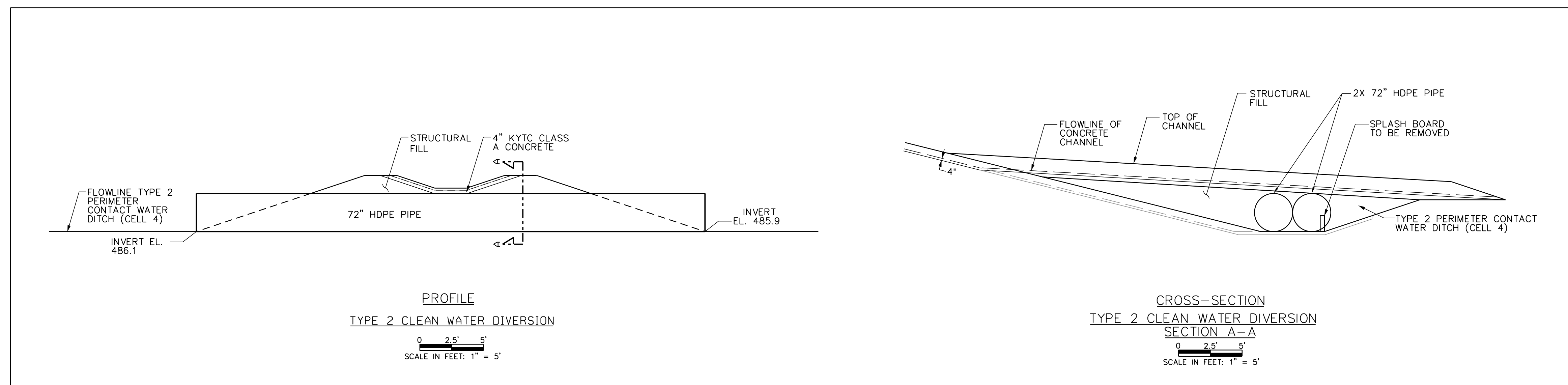
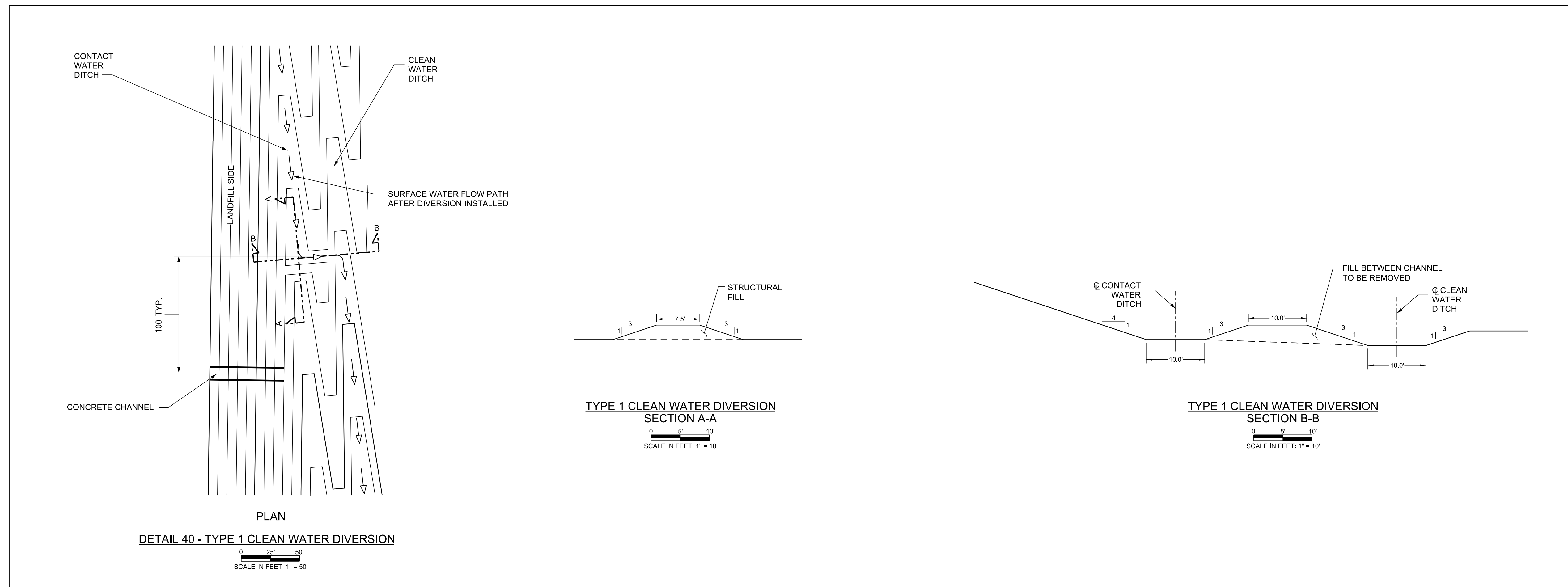
SCALE:	AS NOTED
DWG TYPE:	CIVIL
JOB NO.:	011-09323-004
DATE:	03/2007

FILENAME:	EBS_WESTLF_37.dwg	ENGINEERING PERMIT 602
DWG SIZE:	DRAWING NUMBER	
ANSI D 22.0"X34.0"	EBS_WESTLF_37	5

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
5	04/13/18	7217-17-017	LANDFILL	CKH	HCC	CKH	MGR	MGR

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
4	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
3	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL



REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
3	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: IFC-2014 UPDATE								
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
1	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	03/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: ISSUED FOR PTI								

TITLE
DETAILS - CLEAN WATER DIVERSION
EAST BEND STATION
WEST SPECIAL WASTE LANDFILL

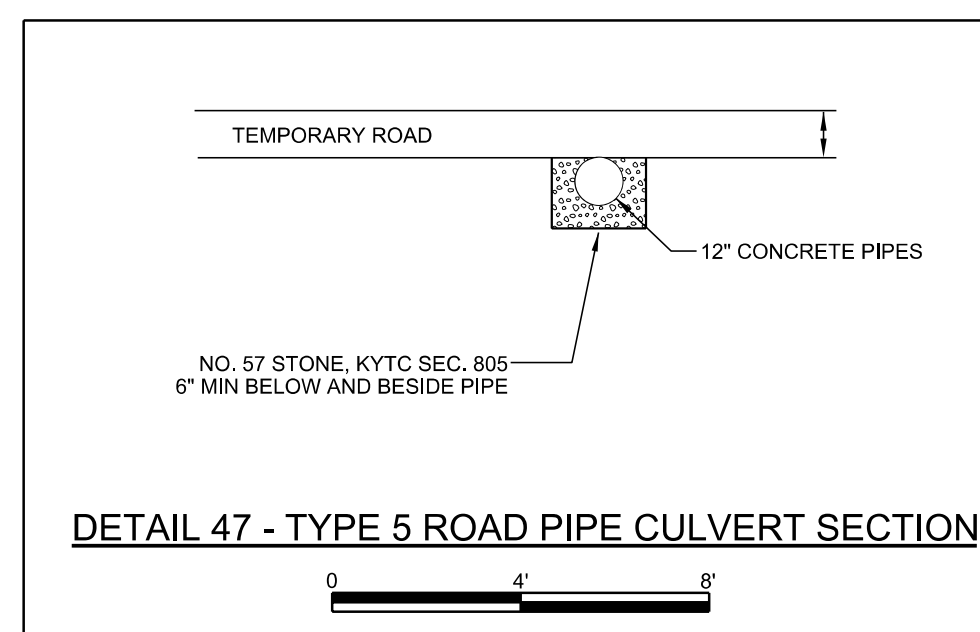
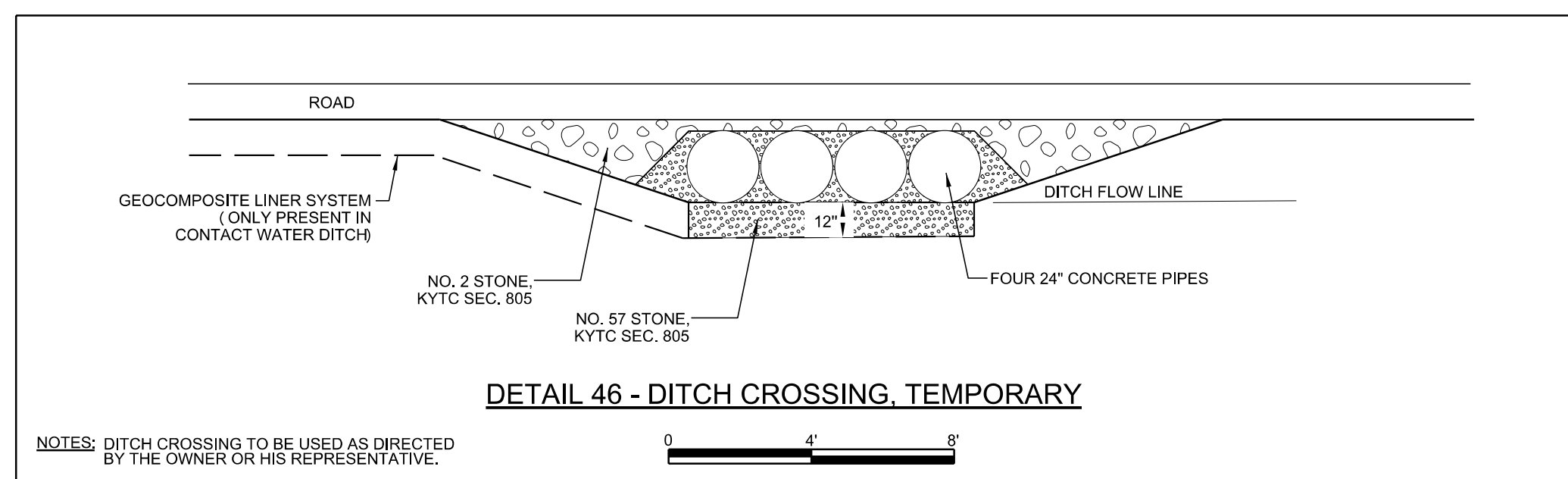
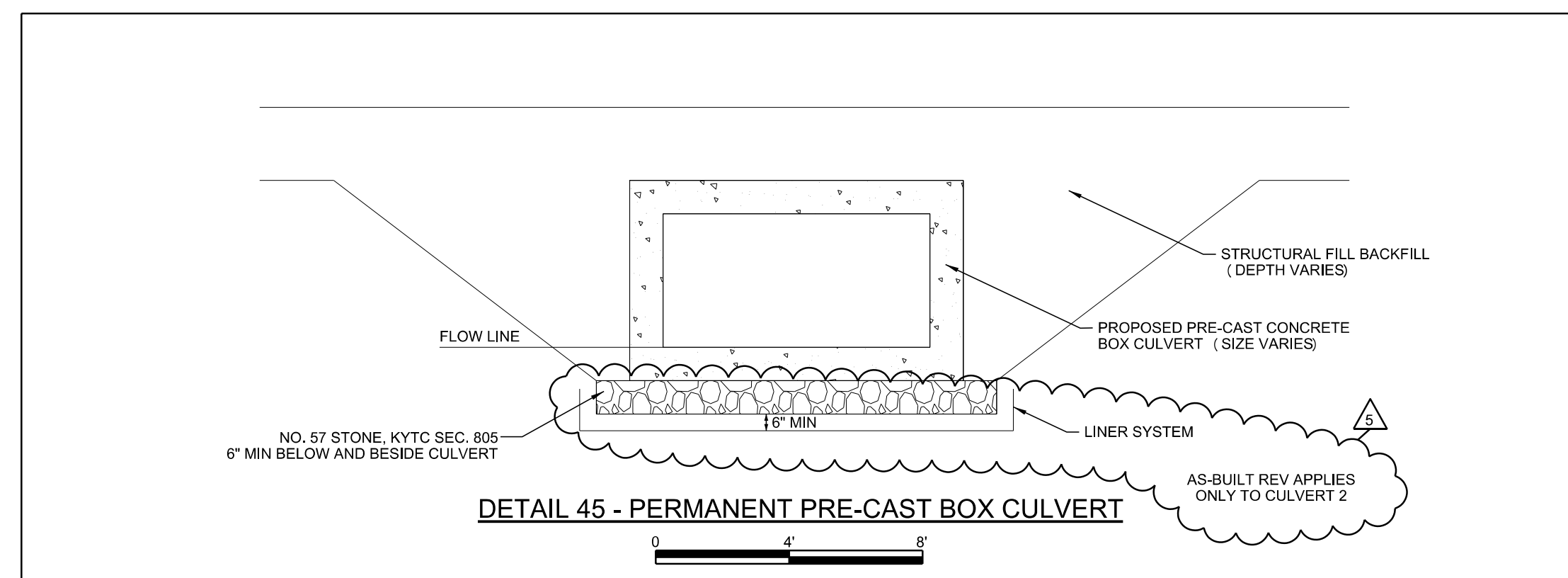
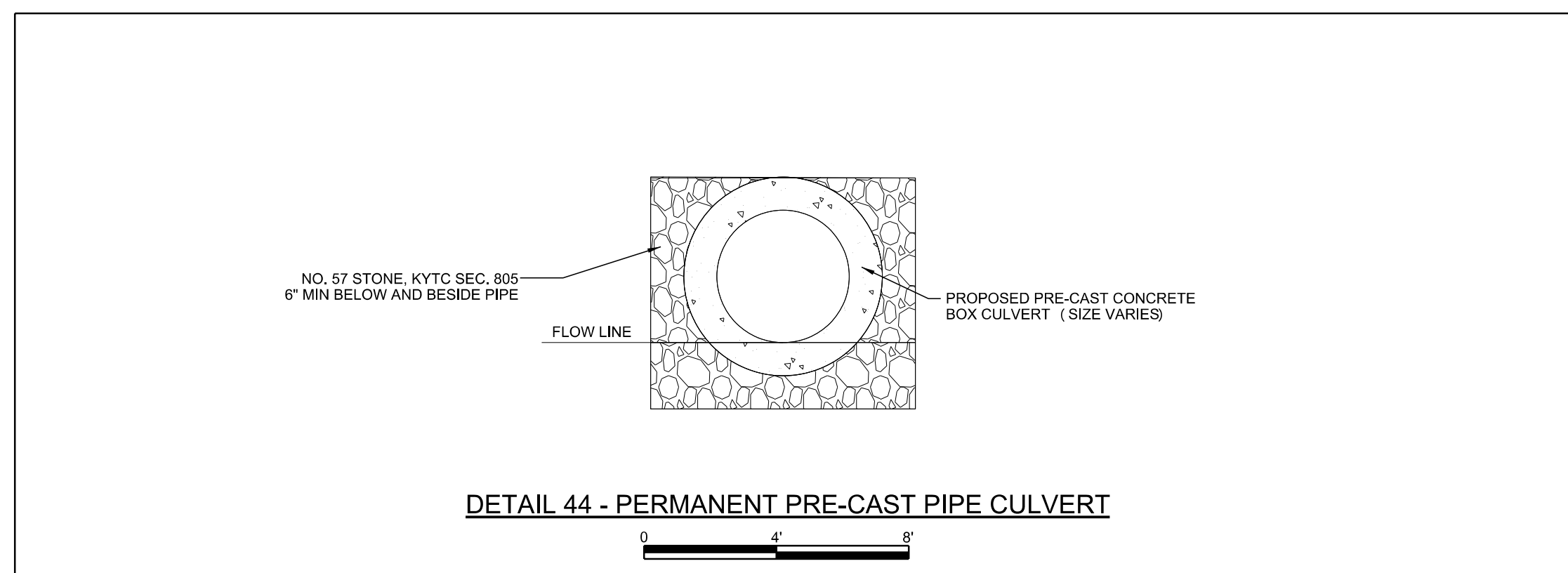
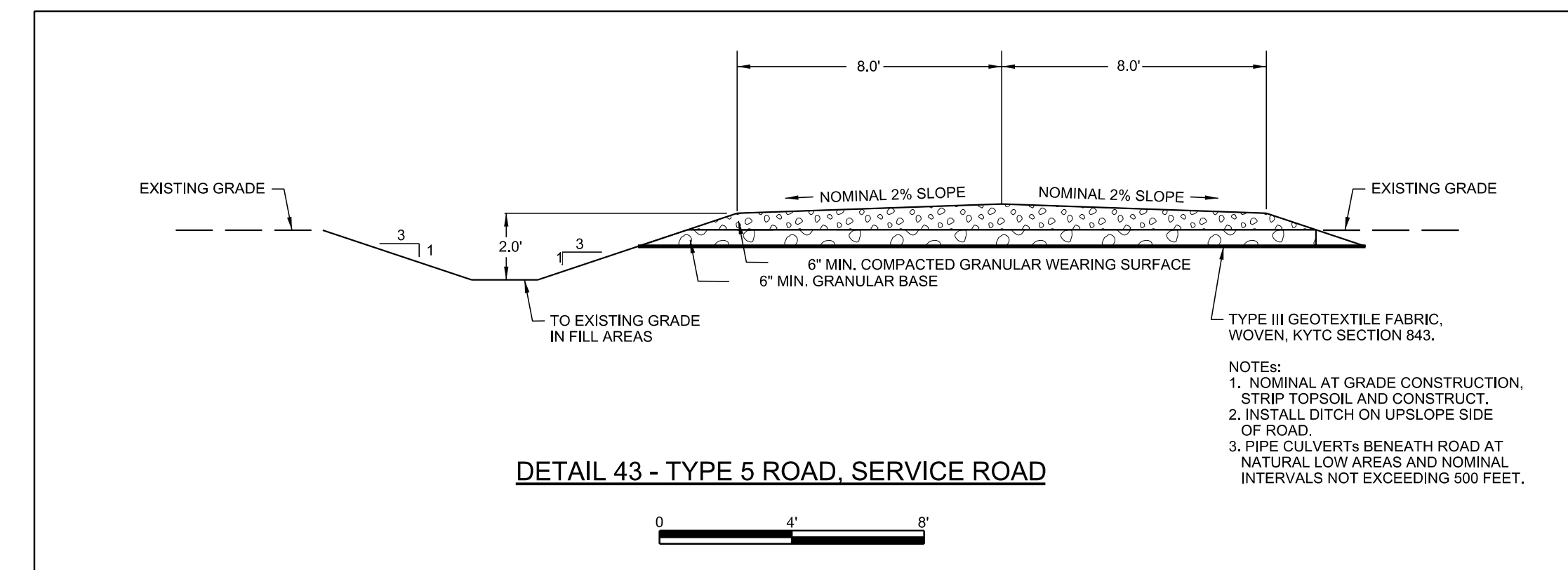
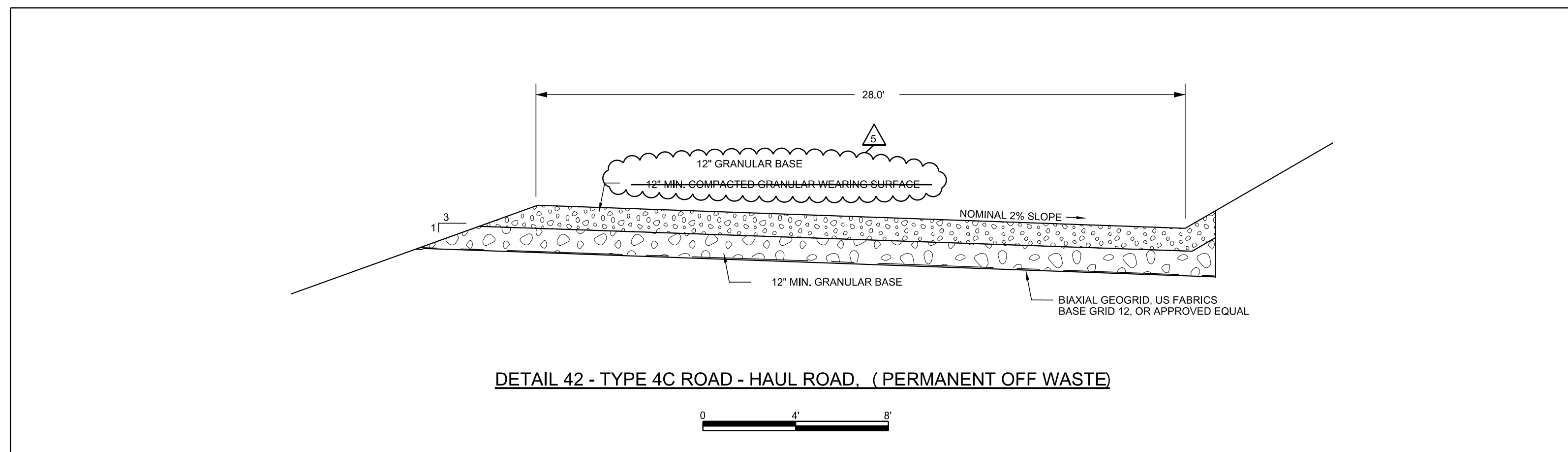
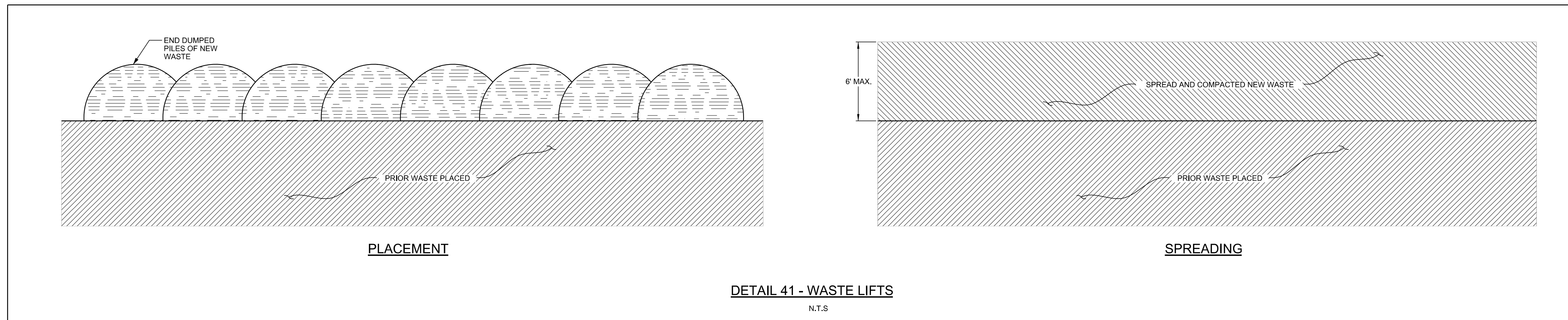
FOR
EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

S&ME SCALE: AS NOTED
DWG TYPE: CIVIL
JOB NO:
DATE: 03/2007

FILENAME: EBS_WESTLF_39.dgn ENGINEERING PERMIT 602

DWG SIZE	DRAWING NUMBER	REVISION
ANSI D 22.0"x34.0"	EBS_WESTLF_39	3





REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
5	06/08/17	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: UPDATED TO AS-BUILT								
4	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								
3	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: IFC-2014 UPDATE								
2	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
1	12/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: MOVED AND ADDED DETAILS								
0	03/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: ISSUED FOR PTI								

TITLE
DETAILS - GENERAL
EAST BEND STATION
WEST SPECIAL WASTE LANDFILL

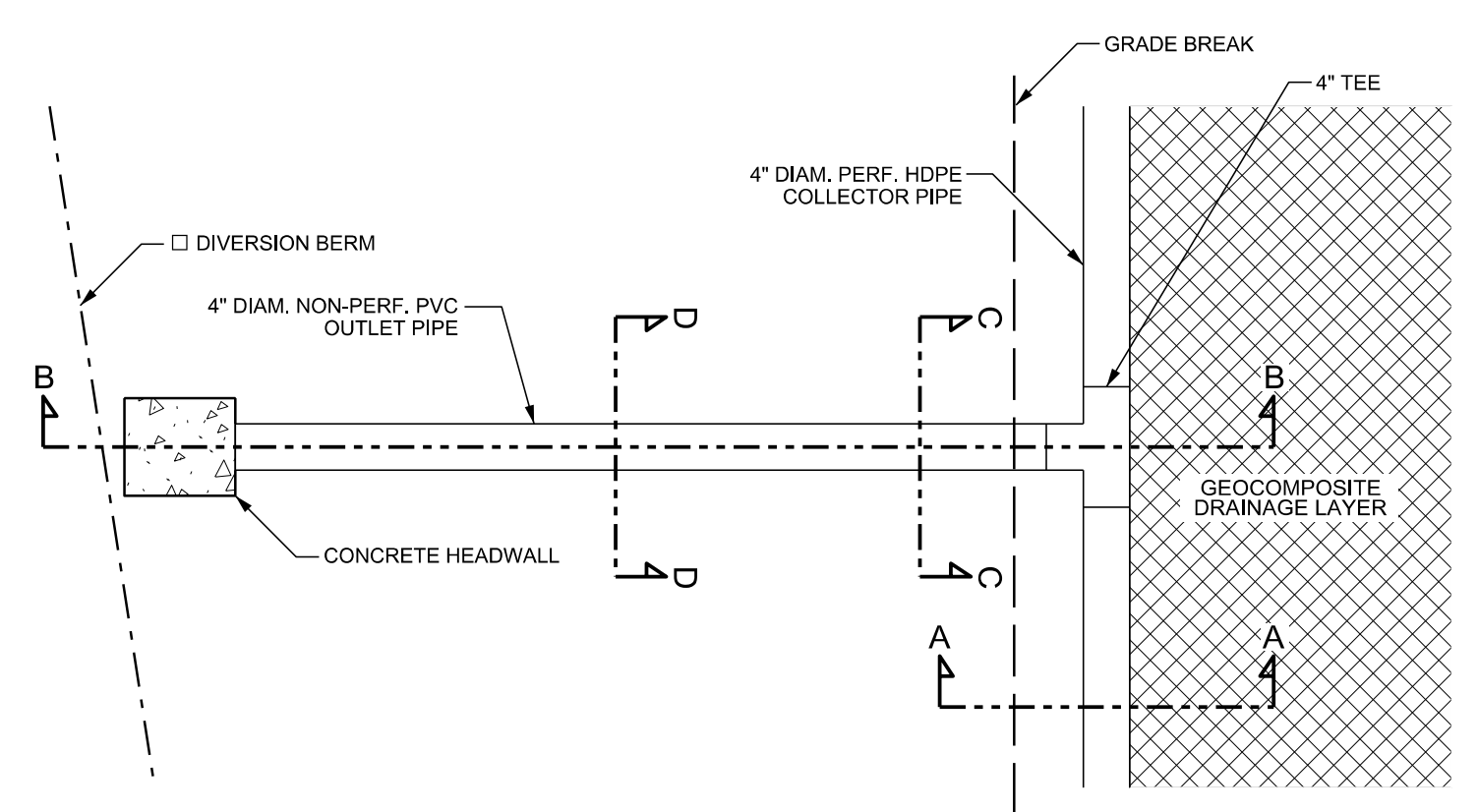
FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

SCALE: AS NOTED
DWG TYPE: CIVIL
JOB NO:
DATE: 03/2007

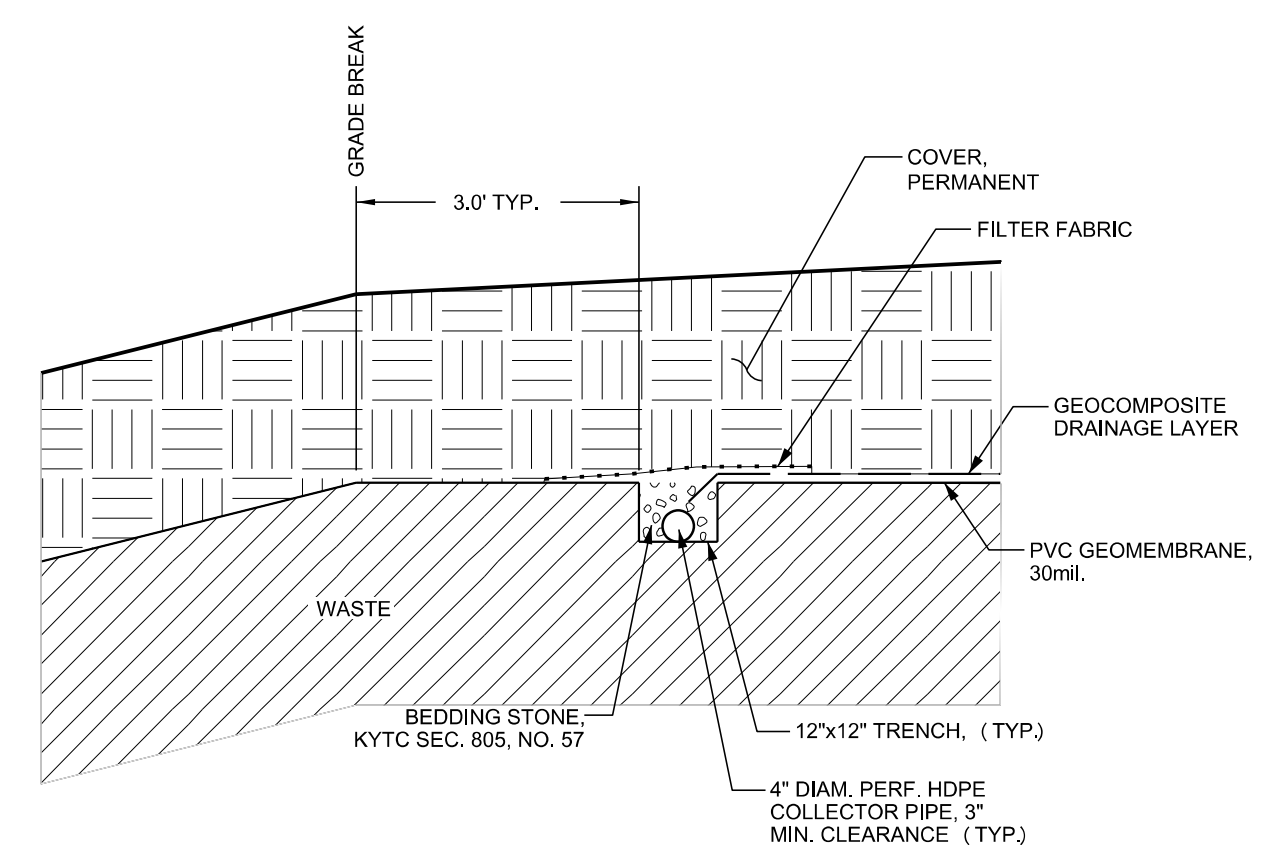
FILENAME: EBS_WESTLF_40A.dgn ENGINEERING PERMIT 602

DWG SIZE: ANSI D 22.0"x34.0" DRAWING NUMBER: EBS_WESTLF_40A REVISION: 5

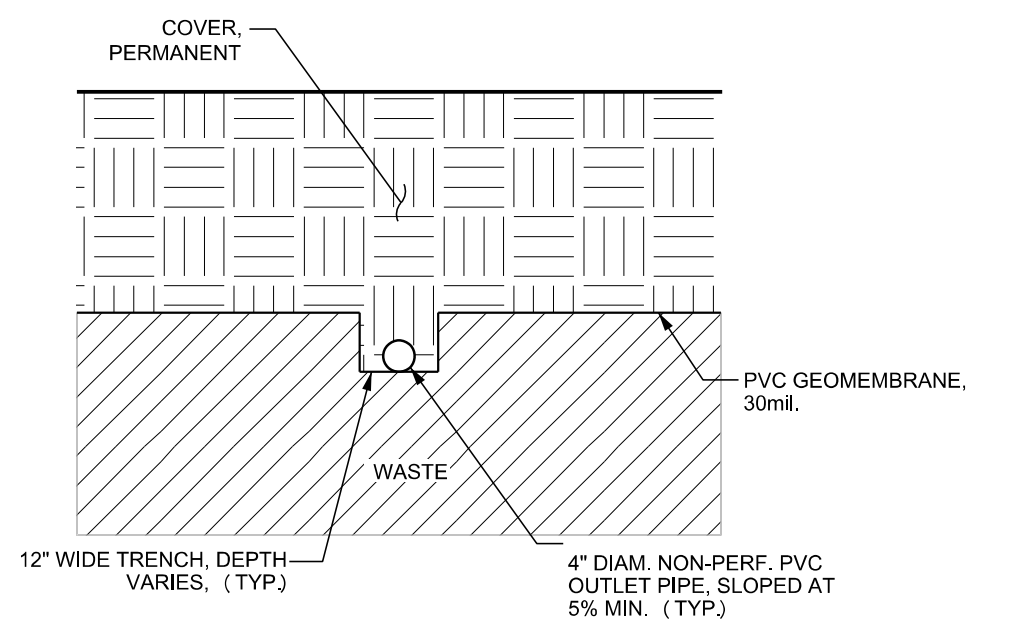




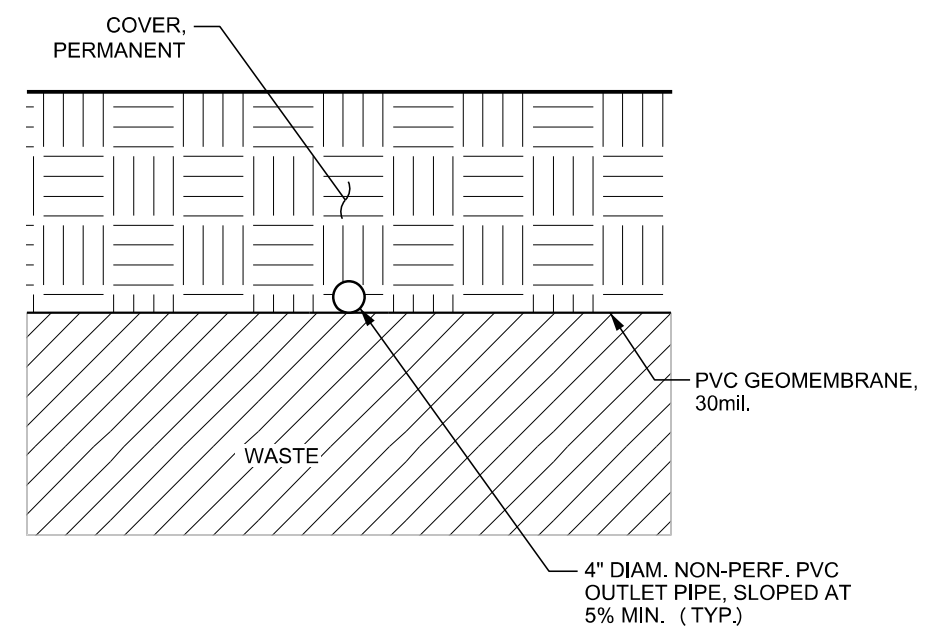
PLAN, GEOCOMPOSITE DRAINAGE LAYER
COLLECTOR PIPE AND OUTLET PIPE
N.T.S.



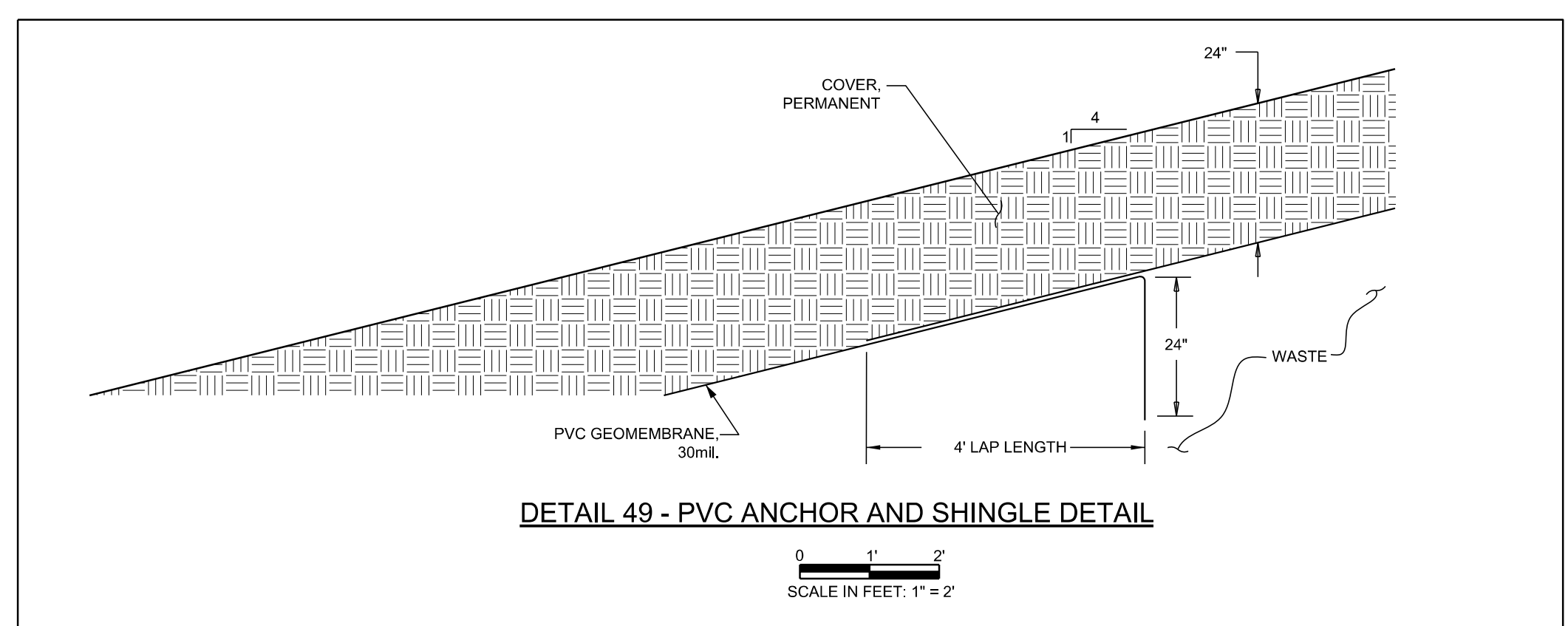
SECTION A-A
N.T.S.



SECTION C-C
N.T.S.

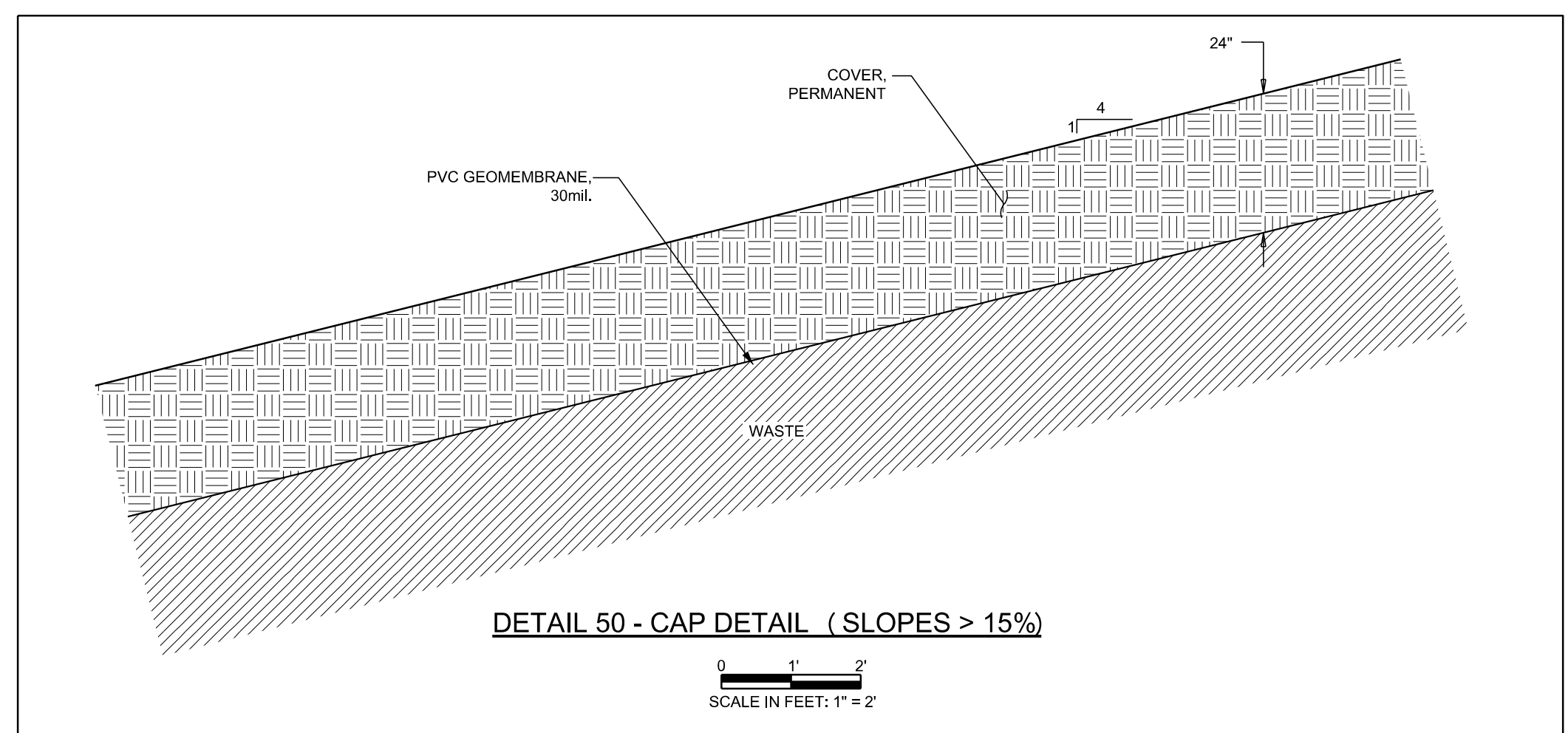


SECTION D-D
N.T.S.



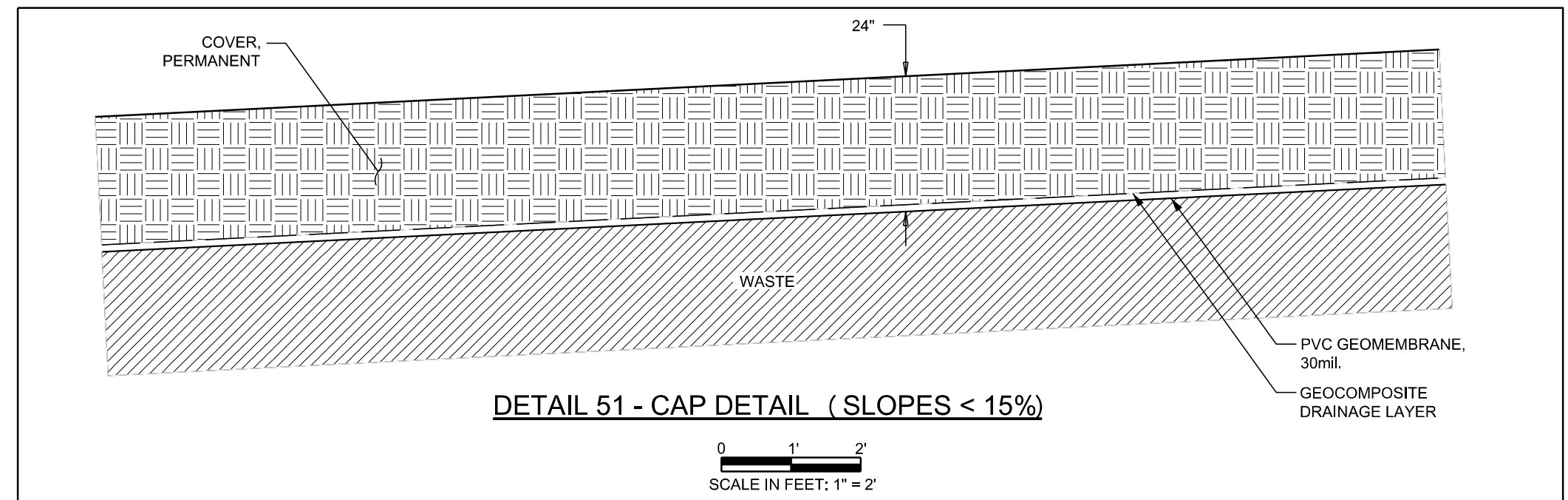
DETAIL 49 - PVC ANCHOR AND SHINGLE DETAIL

SCALE IN FEET: 1" = 2'



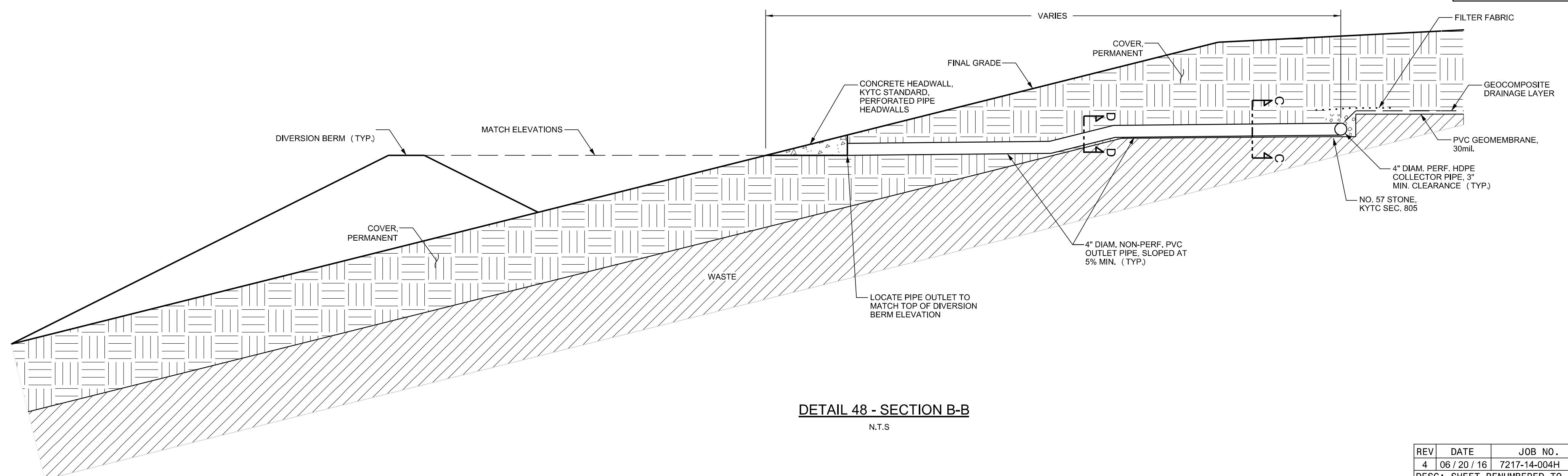
DETAIL 50 - CAP DETAIL (SLOPES > 15%)

SCALE IN FEET: 1" = 2'

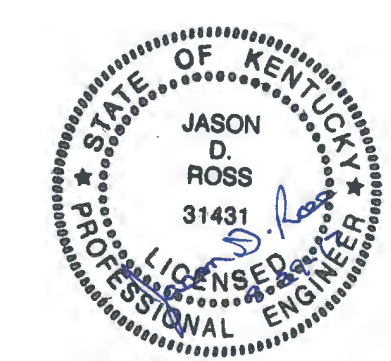


DETAIL 51 - CAP DETAIL (SLOPES < 15%)

SCALE IN FEET: 1" = 2'



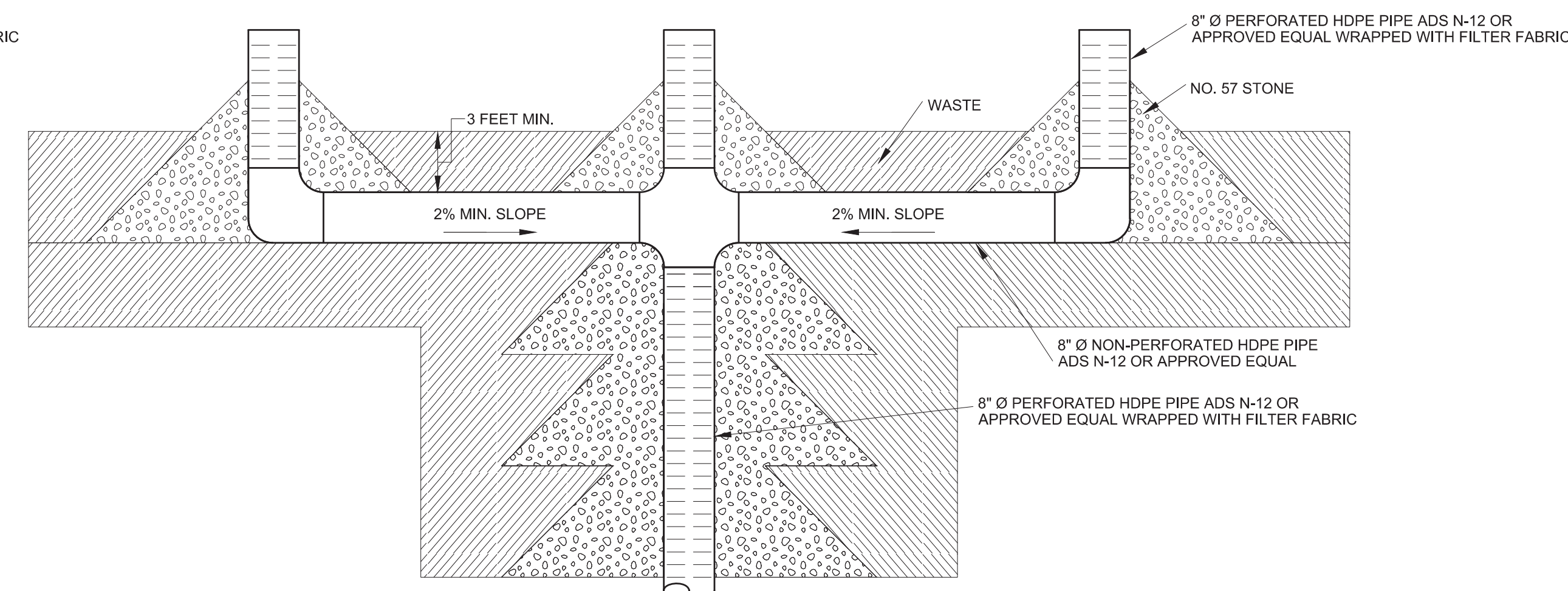
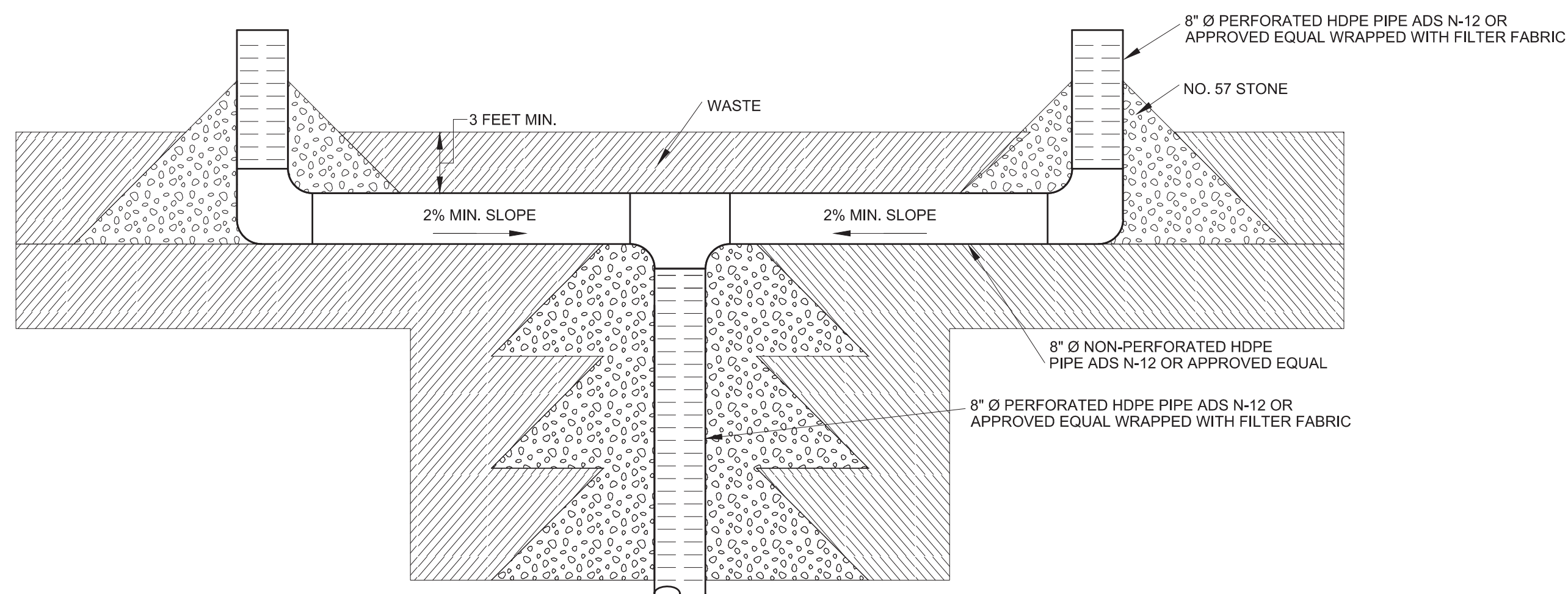
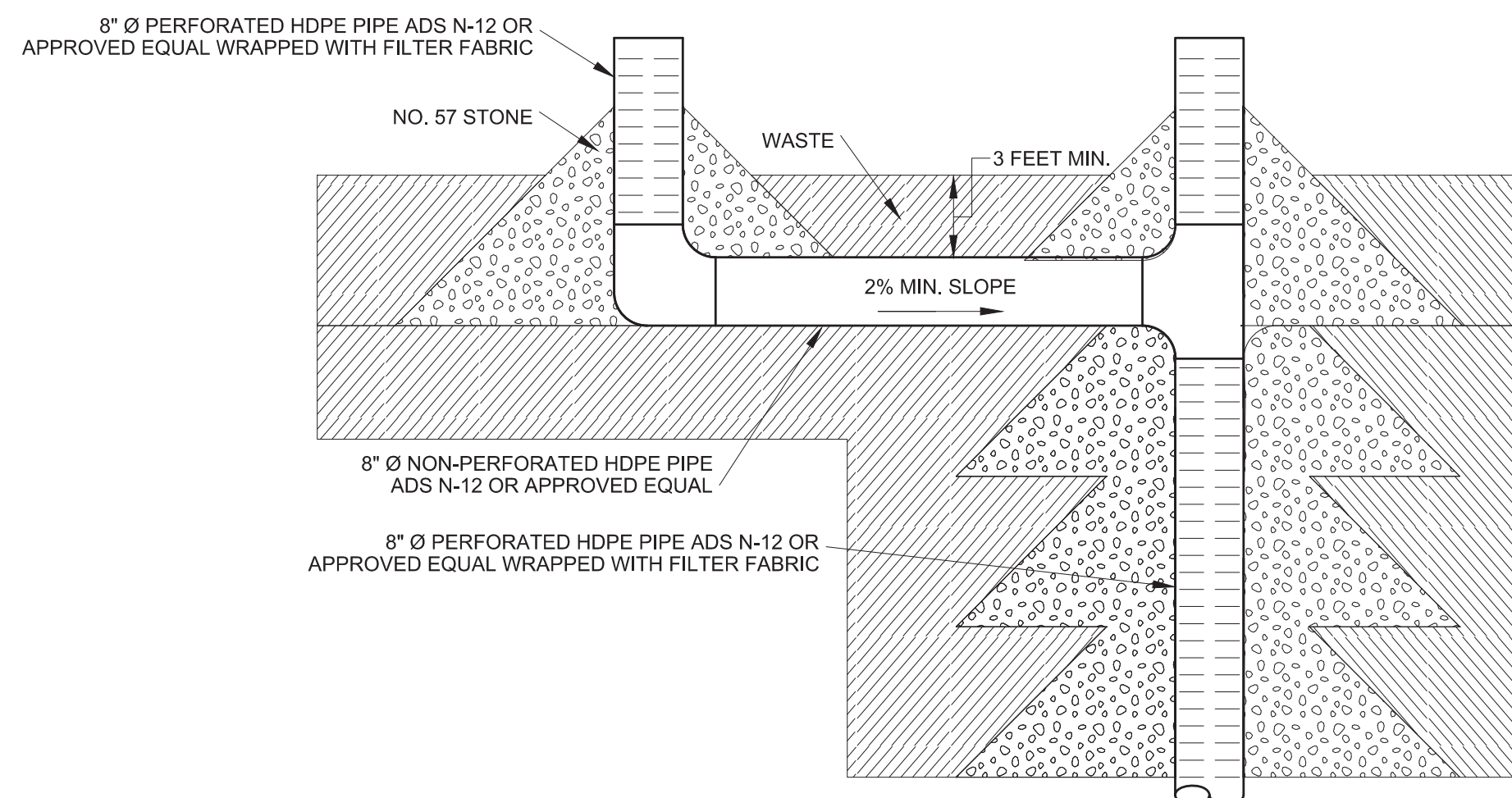
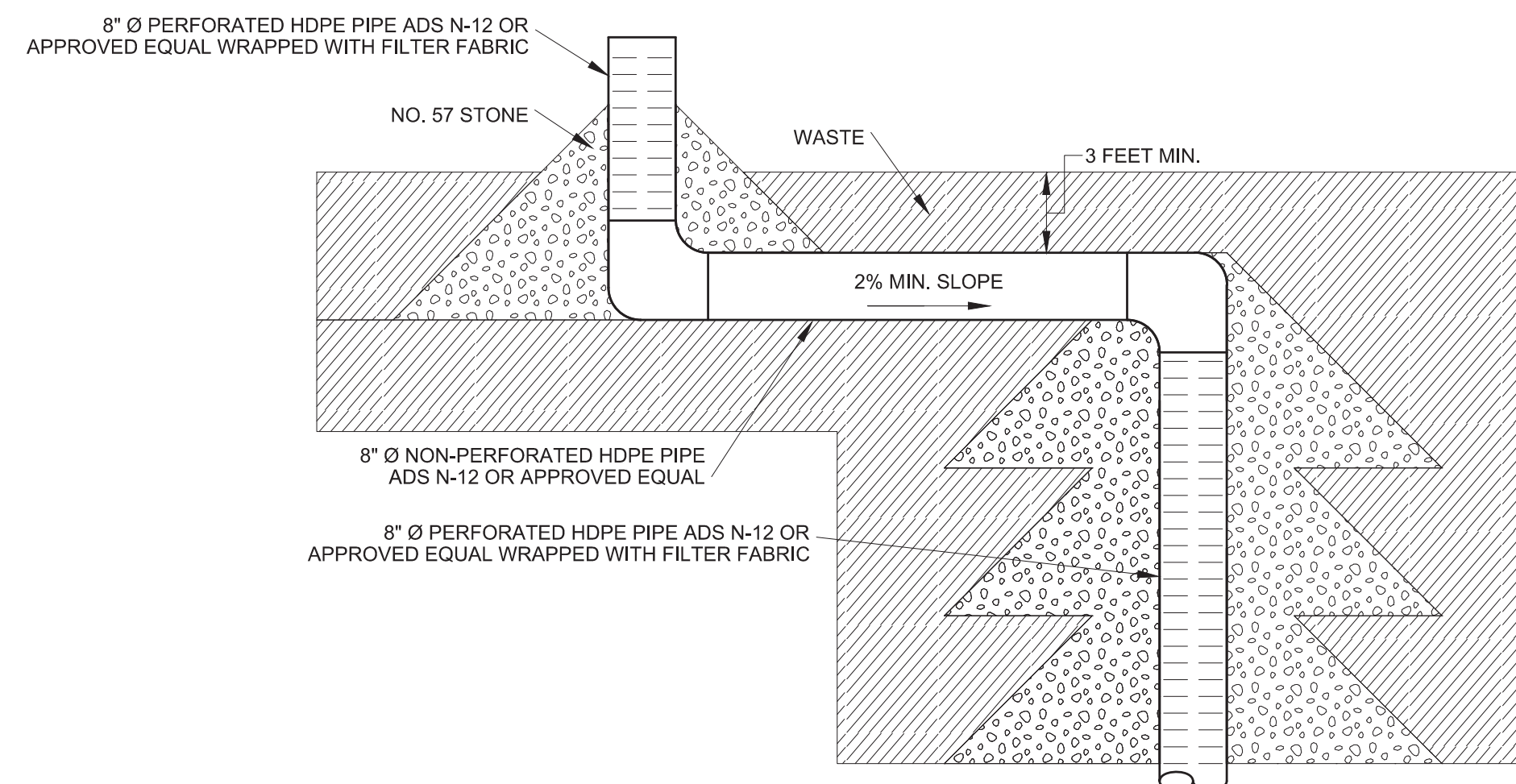
DETAIL 48 - SECTION B-B
N.T.S.



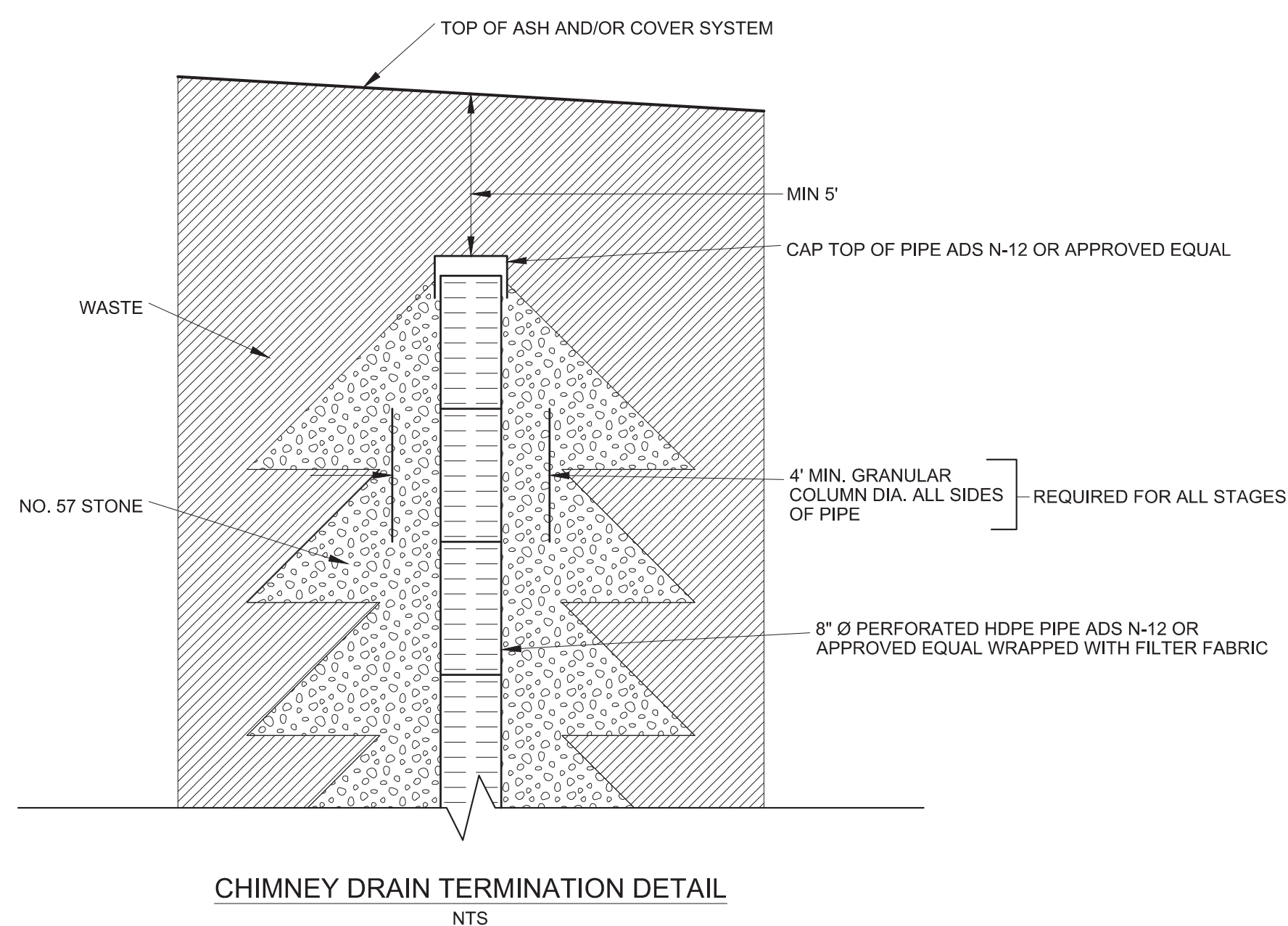
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
3	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: IFC-2014 UPDATE								
2	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
1	12/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: NEW DRAWING ADDED								
0	03/2007	011-09323-004	LANDFILL	CKH	BLR	SJL	SJL	SJL
DESC: ISSUED FOR PTI								

TITLE		DETAILS - FINAL CAP	
		EAST BEND STATION WEST SPECIAL WASTE LANDFILL	
FOR		EAST BEND STATION - WEST SPECIAL WASTE LANDFILL	
SCALE:		AS NOTED	
DWG TYPE:		CIVIL	
JOB NO.:			
DATE:		03/2007	
FILENAME:	EBS_WESTLF_40B.dgn	ENGINEERING PERMIT	602
DWG SIZE:	DRAWING NUMBER		REVISION
ANSI D 22.0"x34.0"	EBS_WESTLF_40B		4

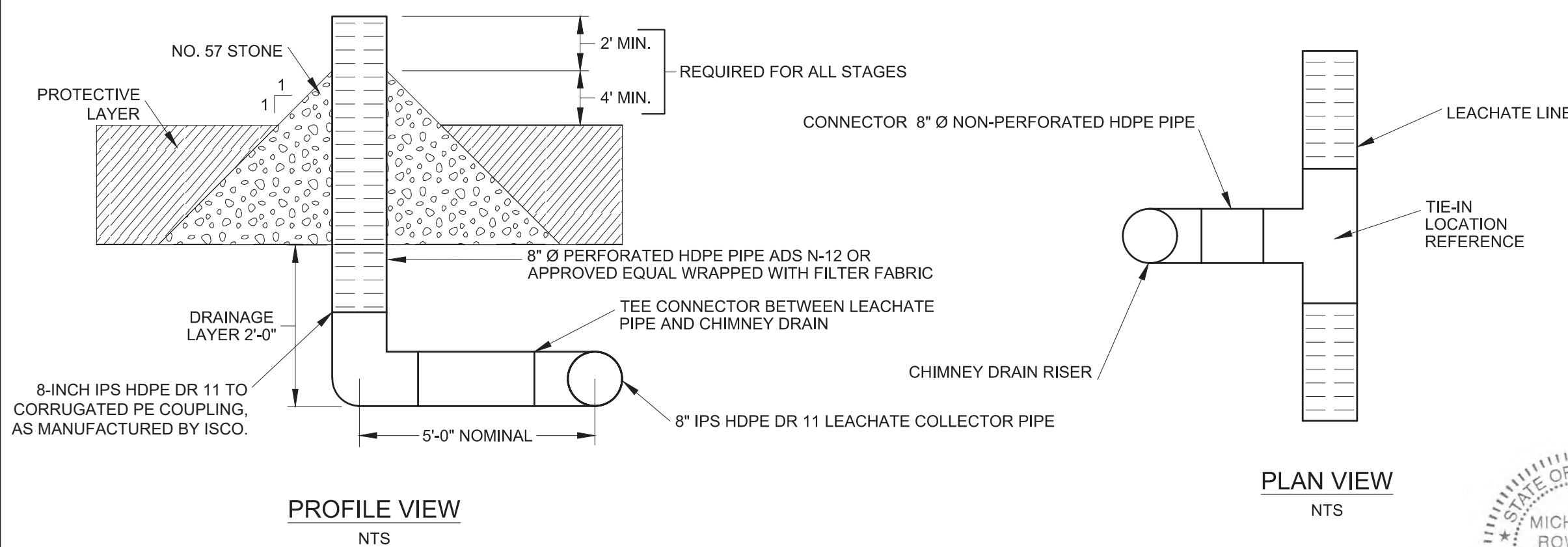
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
4	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								



CHIMNEY DRAIN INLET RELOCATION ALTERNATIVES
NTS



CHIMNEY DRAIN TERMINATION DETAIL
NTS



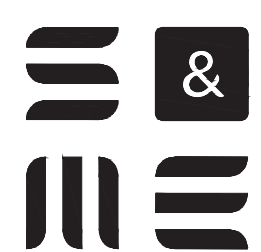
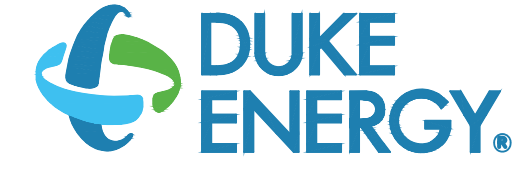
CHIMNEY DRAIN CONNECTION TO LEACHATE SYSTEM DETAIL
NTS

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
1	04/13/18	7217-17-017	LANDFILL	CKH	HCC	CKH	MGR	MGR
DESC: CELL 2 IFC								
REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	6/14/2016	011-09323-005	LANDFILL	CKH	PRR	CKH	JDR	MGR
DESC: CHIMNEY DRAIN PTI MOD								

TITLE

DETAILS - CHIMNEY DRAINS

PLANS PREPARED BY: FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

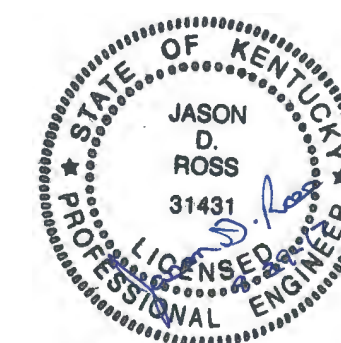
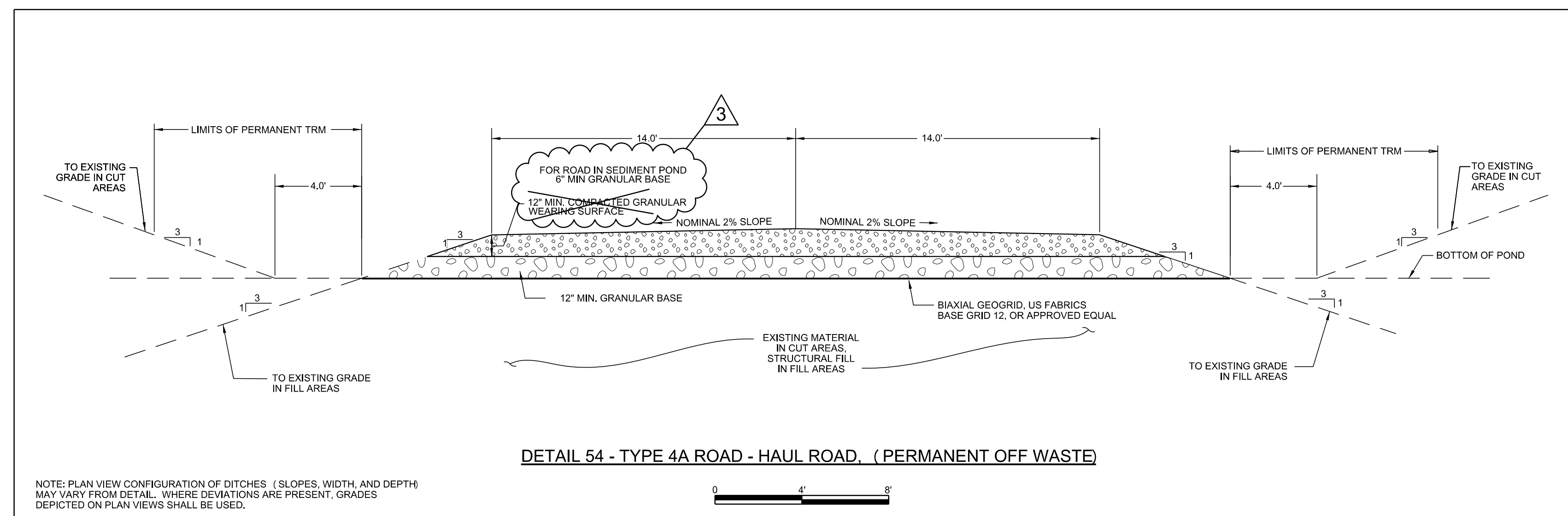
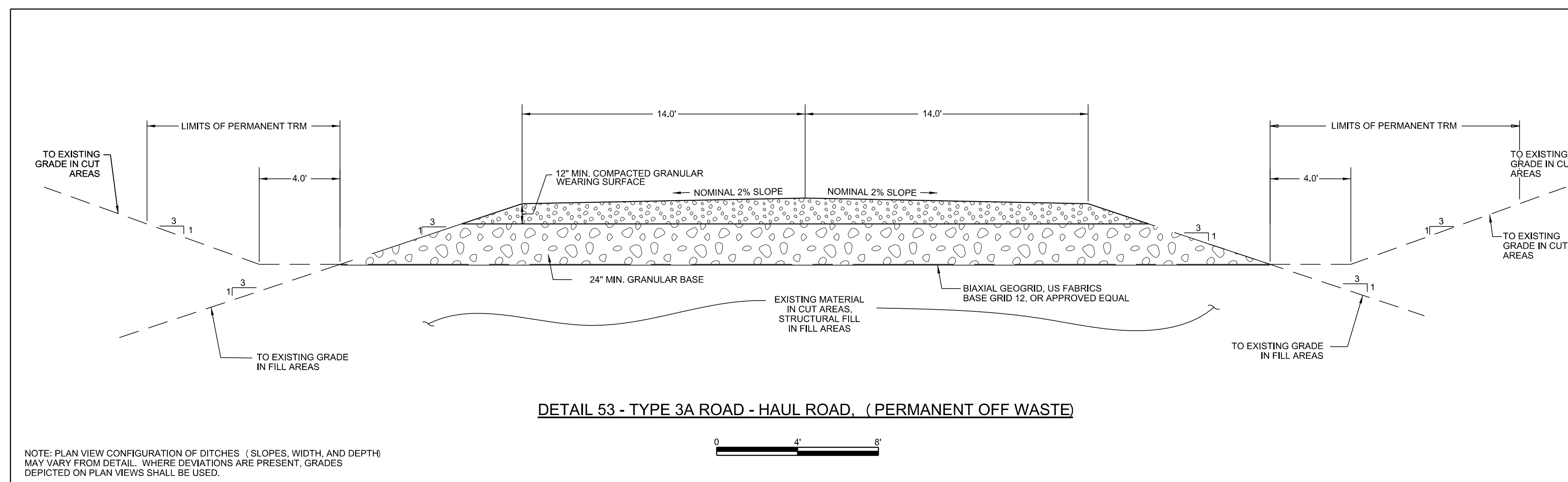
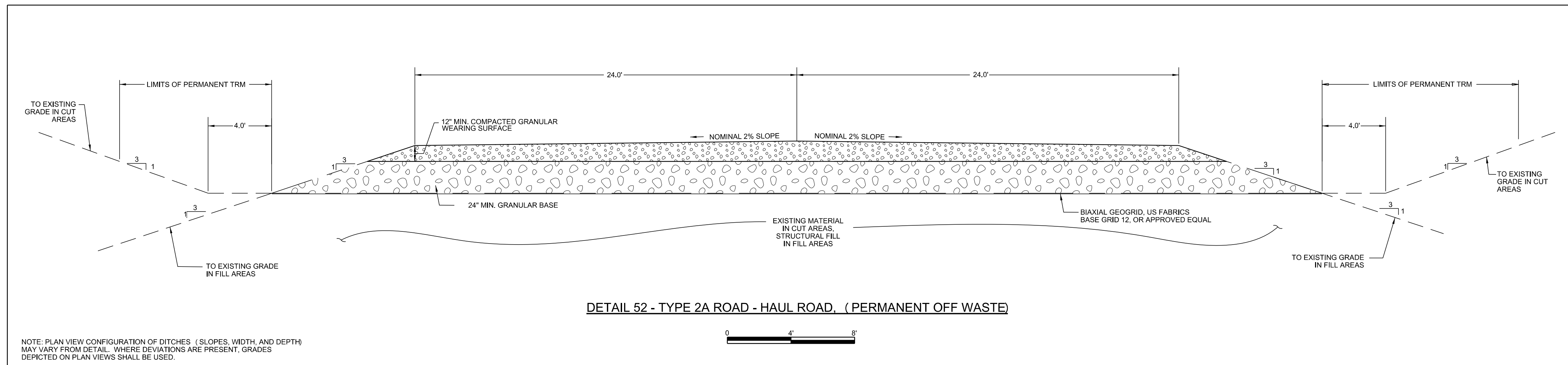
SCALE: AS SHOWN
DWG TYPE: CIVIL
JOB NO: 011-09323-005
DATE: 5/3/2016
ENGINEERING PERMIT 602
APPD: MGR

FILENAME: EBS_WESTLF_40C.dwg
DWG SIZE: ANSI D 22"x34"
DRAWING NO.
REVISION: 1

EBS_WESTLF_40C



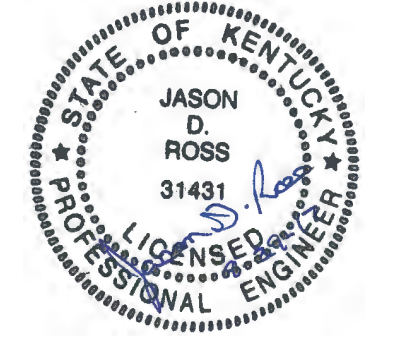
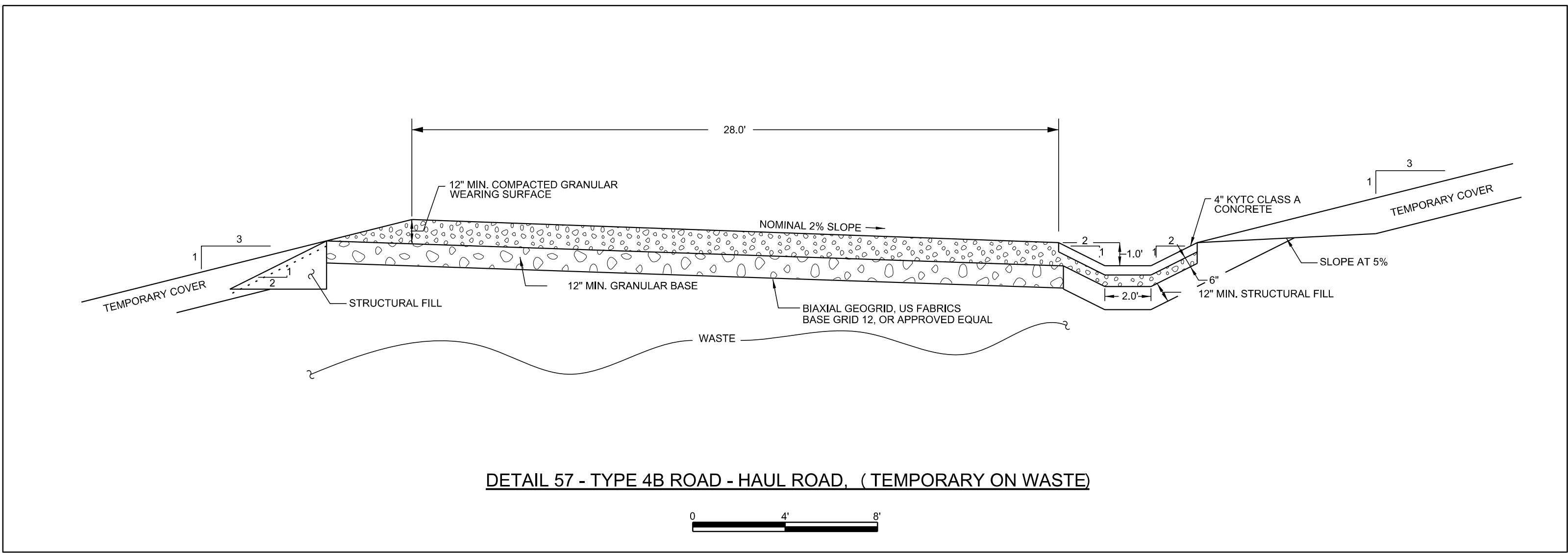
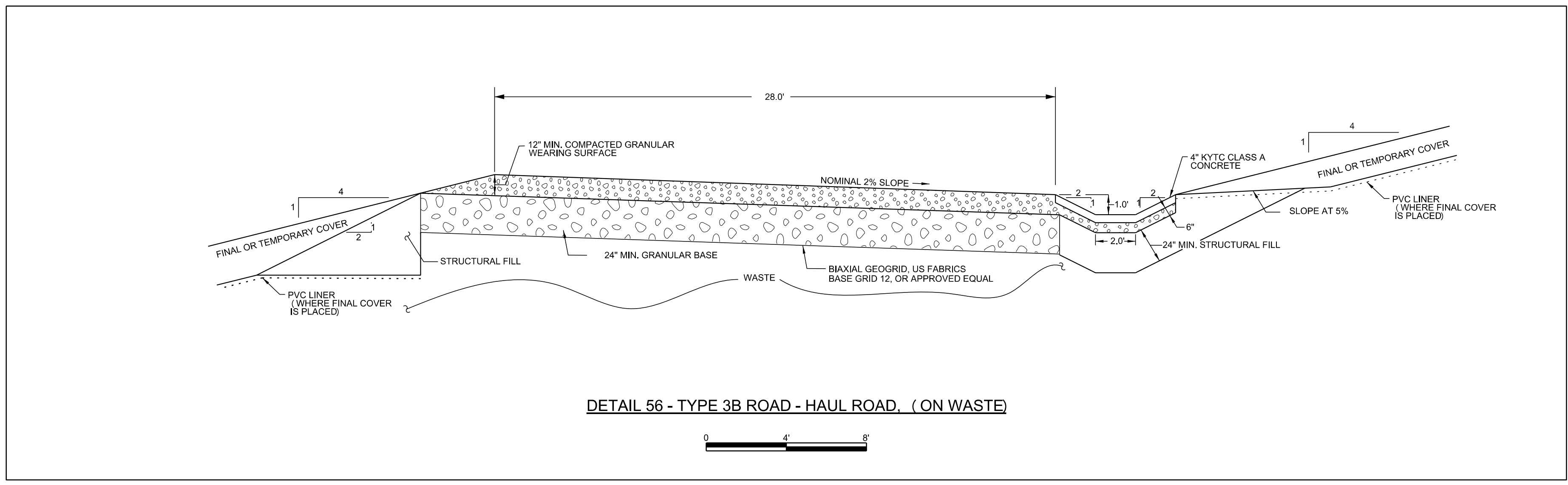
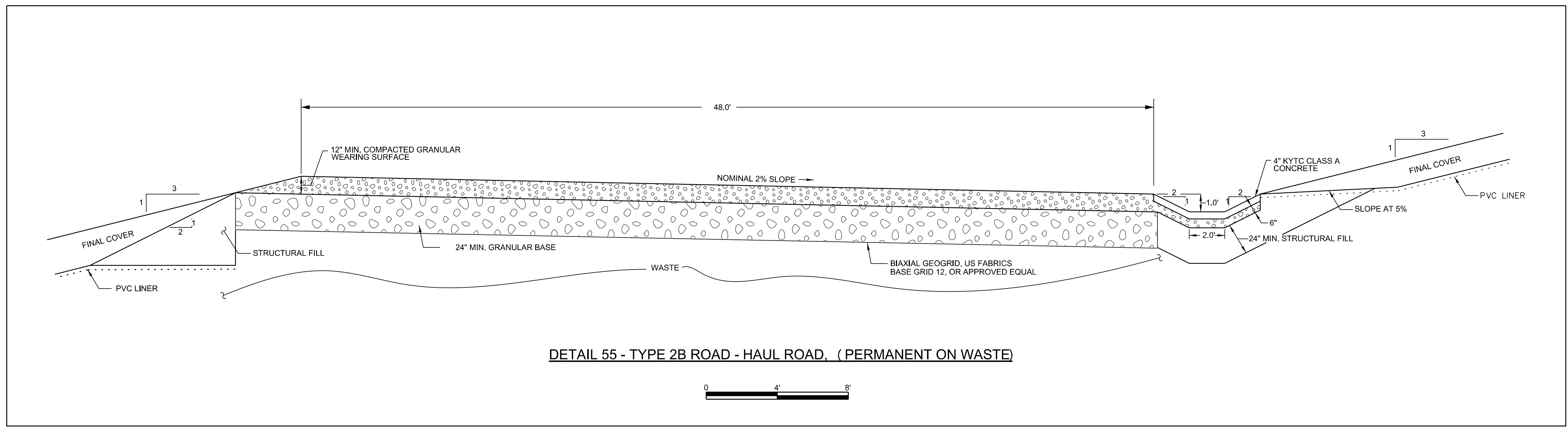
S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226



REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
3	06/08/17	72-17-004H	LANDFILL	CKH	MRM	MRM	MGR	MGR
DESC: UPDATED TO AS-BUILT								
2	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED								
1	11/17/15	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: MODIFY TRM LINES								
0	12/19/14	7217-14-004H	LANDFILL	CKH	PRR	MRM	MGR	MGR
DESC: IFC-2014 UPDATE								

TITLE		DETAILS - ROADS	
		EAST BEND STATION WEST SPECIAL WASTE LANDFILL	
FOR		EAST BEND STATION - WEST SPECIAL WASTE LANDFILL	
		SCALE:	AS NOTED
		DWG TYPE:	CIVIL
		JOB NO.:	
		DATE:	11/2014
FILENAME:	EBS_WESTLF_40E.dgn	ENGINEERING PERMIT 602	
DWG SIZE	DRAWING NUMBER		REVISION
ANSI D 22.0"x34.0"	EBS_WESTLF_40E		3





REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
1	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR

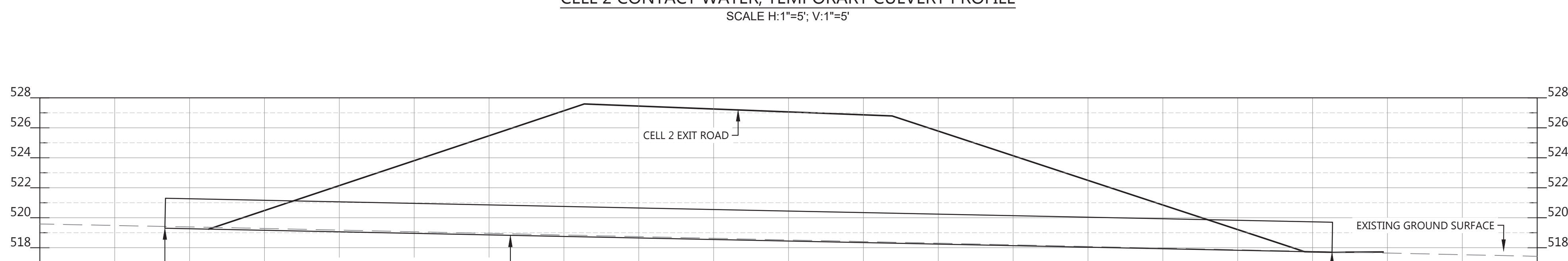
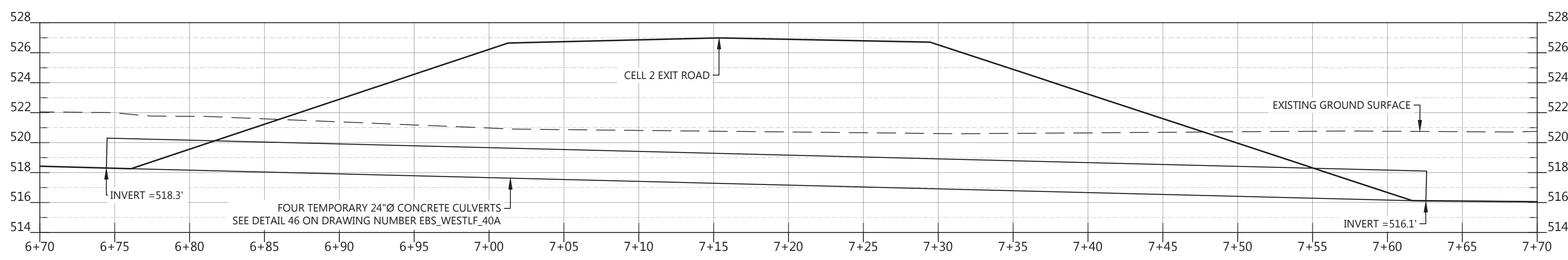
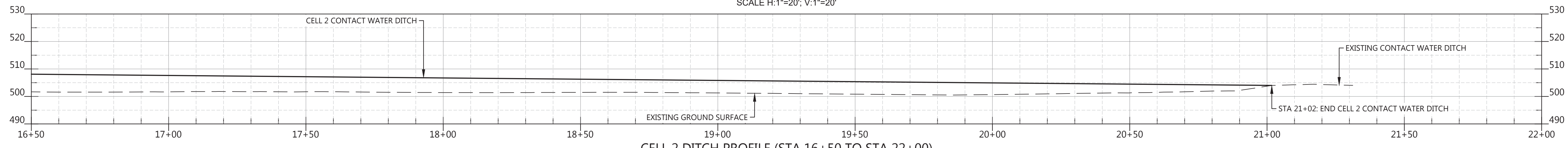
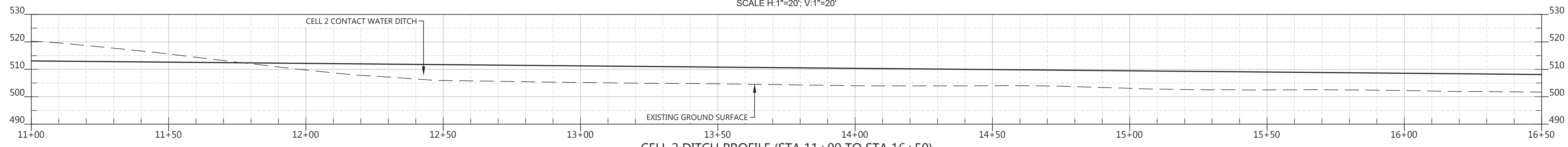
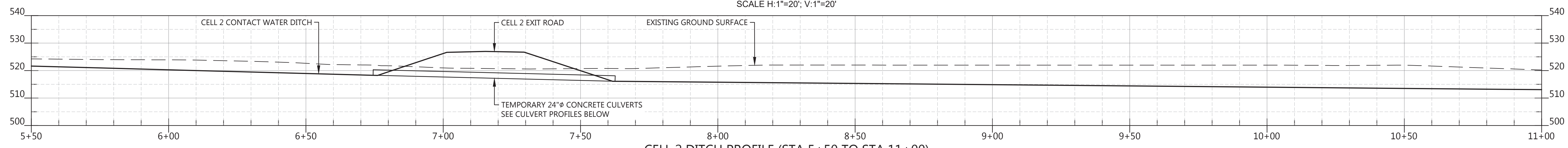
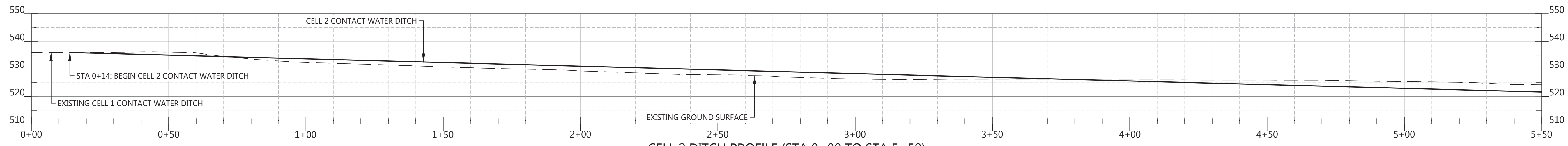
DESC: SHEET RENUMBERED

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	12/19/14	7217-14-004H	LANDFILL	CKH	PRR	MRM	MGR	MGR

DESC: IFC-2014 UPDATE

TITLE		DETAILS - ROADS	
		EAST BEND STATION WEST SPECIAL WASTE LANDFILL	
FOR		EAST BEND STATION - WEST SPECIAL WASTE LANDFILL	
SCALE:		AS NOTED	
DWG TYPE:		CIVIL	
JOB NO.:			
DATE:		11/2014	
FILENAME:	EBS_WESTLF_40F.dgn	ENGINEERING PERMIT 602	
DWG SIZE	DRAWING NUMBER		REVISION
ANSI D 22.0"x34.0"	EBS_WESTLF_40F		1





PLANS PREPARED BY:
S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR
DESC: CELL 2 IFC								
TITLE								
CELL 2 PROFILES								
FOR: EAST BEND STATION - WEST SPECIAL WASTE LANDFILL								
			SCALE:	AS NOTED				
			DWG TYPE:	CIVIL				
			JOB NO.:	7217-17-017				
			DATE:	04/13/2018				
FILENAME: EBS_WESTLF_40L.dwg			ENGINEERING PERMIT 602					
DWG SIZE		DRAWING NUMBER			REVISION			
ANSI D 22.0"X34.0"		EBS_WESTLF_40L			0			

TEMPORARY SEEDING EROSION & SEDIMENT CONTROL

DESCRIPTION

ESTABLISH TEMPORARY COVER ON DISTURBED AREAS BY PLANTING APPROPRIATE RAPIDLY GROWING ANNUAL GRASSES OR SMALL GRAINS. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH, WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING.

CONDITIONS WHERE PRACTICE APPLIES

TEMPORARY SEEDING SHALL BE APPLIED ON EXPOSED SOIL WHERE ADDITIONAL WORK (GRADING, ETC.) IS NOT SCHEDULED FOR MORE THAN 21 DAYS. IDLE AREAS SHALL BE SEEDED WITHIN 7 DAYS AFTER GRADING.

SEEDING

PLANT SELECTION: SELECT THE PLANTS APPROPRIATE FROM TABLE 1 FOR TEMPORARY SEEDING. CHOOSE VARIETIES OF TALL FESCUE THAT ARE ENDOPHYTE FREE OR HAVE NONTOXIC ENDOPHYTES. SEEDING RATES FOR DORMANT SEEDINGS ARE INCREASED BY 50 PERCENT.

THE LENGTH OF TIME THE AREA WILL IDLE AND THE SEASON IN WHICH SEEDING OCCURS SHOULD INFLUENCE THE SELECTION OF SEEDING SPECIES. FOR AREAS REMAINING IDLE FOR OVER A YEAR, A MIXTURE CONTAINING PERENNIAL RYEGRASS SHALL BE USED.

SITE PREPARATION: TEMPORARY SEEDING IS BEST DONE ON A PREPARED SOIL SEEDBED OF LOOSE PULVERIZED SOIL. HOWEVER, SEEDINGS SHALL NOT BE DELAYED, IF ADDITIONAL SEEDBED PREPARATION IS NOT POSSIBLE. AT A MINIMUM, REMOVE LARGE ROCK OR DEBRIS THAT WILL INTERFERE WITH SEEDING OPERATIONS. IF THE GROUND HAS BECOME CRUSTED, A DISK OR A HARROW TO LOOSEN THE SOIL.

SOIL AMENDMENTS: A SOIL TEST IS NECESSARY TO ADEQUATELY PREDICT THE NEED FOR LIME AND FERTILIZER. SEEDINGS THAT ARE EXPECTED TO BE LONG LASTING (OVER 1-3 MONTHS), SHALL HAVE LIME AND FERTILIZER APPLIED AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, FERTILIZER CAN BE BROADCAST AND WORKED INTO THE TOP INCH OF SOIL AT THE RATE OF 6 POUNDS/1000 FT2 OR 250 POUNDS PER ACRE OF 10-10-10 OR 12-12-12.

SEEDING METHODS: SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTI-PACKER SEEDER, OR HYDROSEEDER. SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER SHALL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

TEMPORARY SEEDING SPECIFICATIONS

Table 1 Temporary Seeding Species Selection			
Seeding Dates	Species	Lb./1000 ft2	Lb/Acre
March 1 to August 15	Oats	3	128 (4 Bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Annual Ryegrass	1.25	55
	Perennial Ryegrass	3.25	142
	Creeping Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	August 16th to November	Rye	3
Tall Fescue		1	40
Annual Ryegrass		1	40
Wheat		3	120 (2 bushel)
Tall Fescue		1	40
Annual Ryegrass		1	40
Perennial Rye		1	40
Tall Fescue		1	40
Annual Ryegrass		1	40
Annual Ryegrass		1.25	40
Perennial Ryegrass		3.25	40
Creeping Red Fescue		0.4	40
Kentucky Bluegrass		0.4	40
November 1 to Feb. 29		Use mulch only or dormant seeding	

Note: Other approved species may be substituted.

MULCHING

MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:

- STRAW - STRAW SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC. OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED.
- HYDROSEEDERS - WOOD CELLULOSE FIBER SHOULD BE USED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.
- OTHER - ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS AND ROLLED EROSION CONTROL PRODUCTS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD MULCH/CHIPS APPLIED AT 10-20 TONS/AC.

MULCH ANCHORING - MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH.

- MECHANICAL - USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 INCHES.
- MULCH NETTINGS - USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING REQUIREMENTS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.
- SYNTHETIC BINDERS - FOR STRAW MULCH, SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER. ALL APPLICATIONS OF SYTHETIC BINDERS MUST BE CONDUCTED IN SUCH A MANNER WHERE THERE IS NO CONTACT

WITH WATERS OF THE STATE.

- WOOD CELLULOSE FIBER - WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB./100 GAL. OF WOOD CELLULOSE FIBER.

MAINTENANCE

AREAS FAILING TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT EROSION SHALL BE RESEED AS SOON AS SUCH AREAS ARE IDENTIFIED.



SEEDING PERFORMED DURING HOT AND DRY SUMMER MONTHS SHALL BE WATERED AT A RATE OF 1 INCH PER WEEK.

ADDITIONAL MULCH SHALL BE PLACED AS NECESSARY TO COVER EXPOSED SOIL CONDITIONS WHEN OBSERVED DURING ROUTINE MAINTENANCE INSPECTIONS.

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR

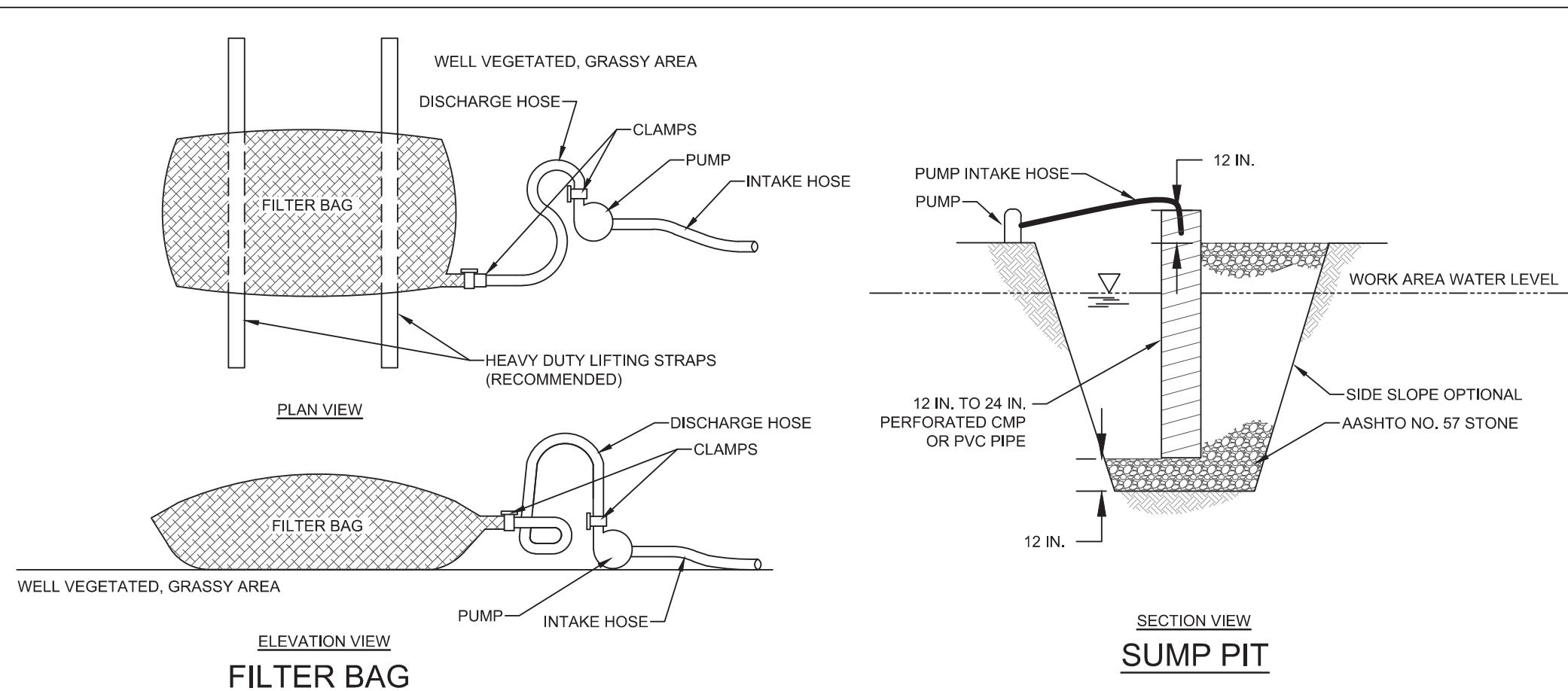
DESC: CELL 2 IFC

TITLE
EROSION & SEDIMENT CONTROL NOTES

PLANS PREPARED BY:	FOR
	
SCALE: -	DWG TYPE: CIVIL
JOB NO: 7217-17-017	DATE: 04/13/2018
FILENAME: EBS_WESTLF_40M.dwg	ENGINEERING PERMIT 602
DWG SIZE: ANSI D 22.0"X34.0"	DRAWING NUMBER: EBS_WESTLF_40M
	REVISION: 0



S&M&E, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226



NOTES:

WORK AREAS SHALL BE DEWATERED THROUGH A FILTER BAG AS NECESSARY DURING CONSTRUCTION.

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "I" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY, IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

NOTES:

LOCATE SUMP AT LOW POINT IN WORK AREA AND OUTSIDE OF CONSTRUCTION ACTIVITY. WHEREVER RUNOFF FROM A WORK AREA FLOWS DIRECTLY TO THE SUMP AREA, A FILTER BAG SHALL BE ATTACHED AT THE DISCHARGE POINT UNLESS PUMPING TO A SEDIMENT BASIN OR SEDIMENT TRAP.

MINIMUM DIAMETER OF PIT BOTTOM SHALL BE 2" LARGER THAN PIPE DIAMETER. MINIMUM DEPTH OF PIT SHALL BE 24" BELOW WATER LEVEL IN WORK AREA (INCLUDING THE AASHTO #57 STONE). 12" TO 24" PERFORATED CMP OR PVC PIPE SHALL BE SET ON 12" OF CLEAN AASHTO # 57 STONE.

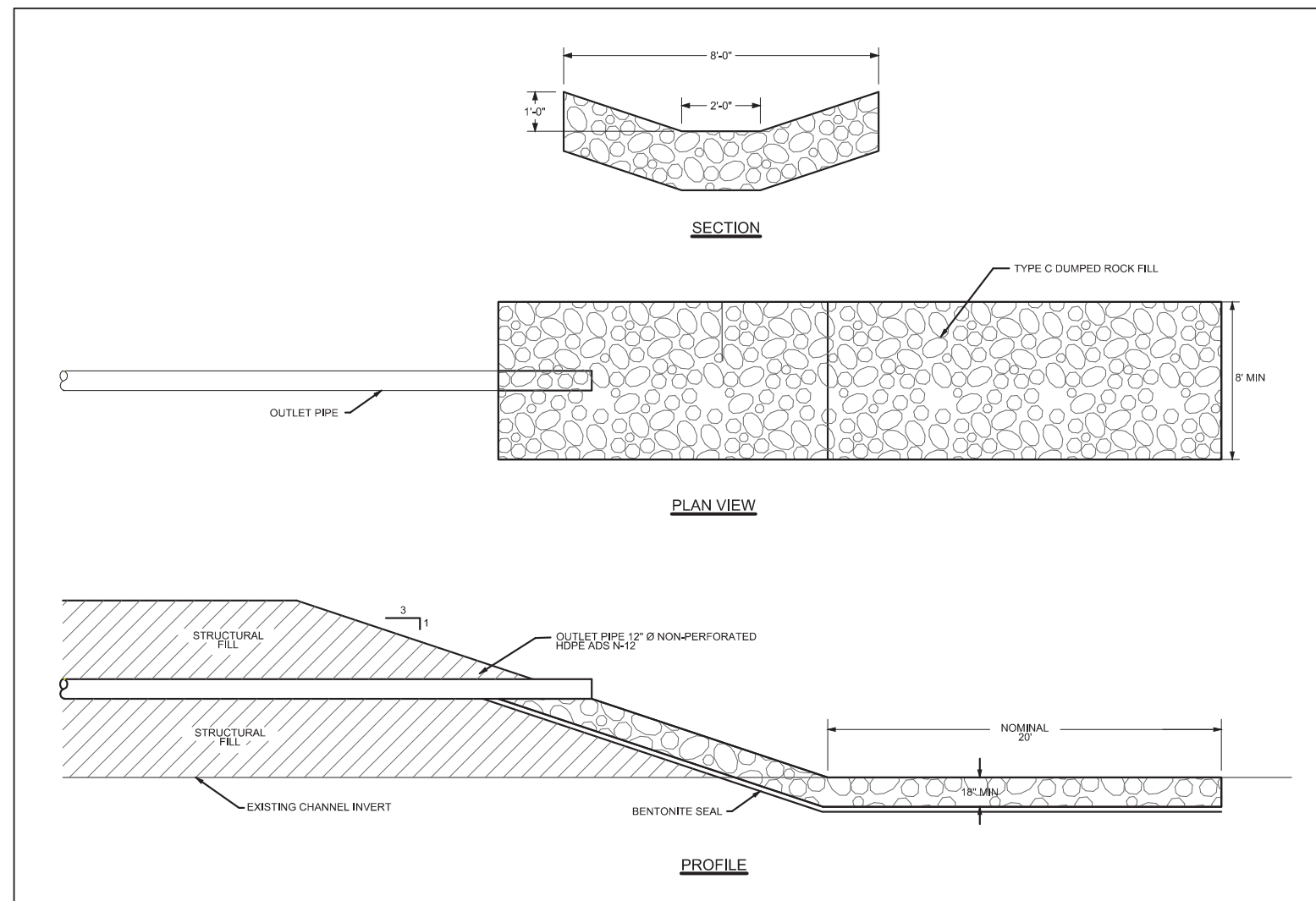
VOID SPACE AROUND PIPE SHALL BE FILLED WITH AASHTO # 57 STONE. PIPE TO EXTEND 12" MIN. ABOVE TOP OF STONE AND/OR WATER BEING PUMPED FROM WORK AREA.

SET PUMP INTAKE INSIDE STANDPIPE.

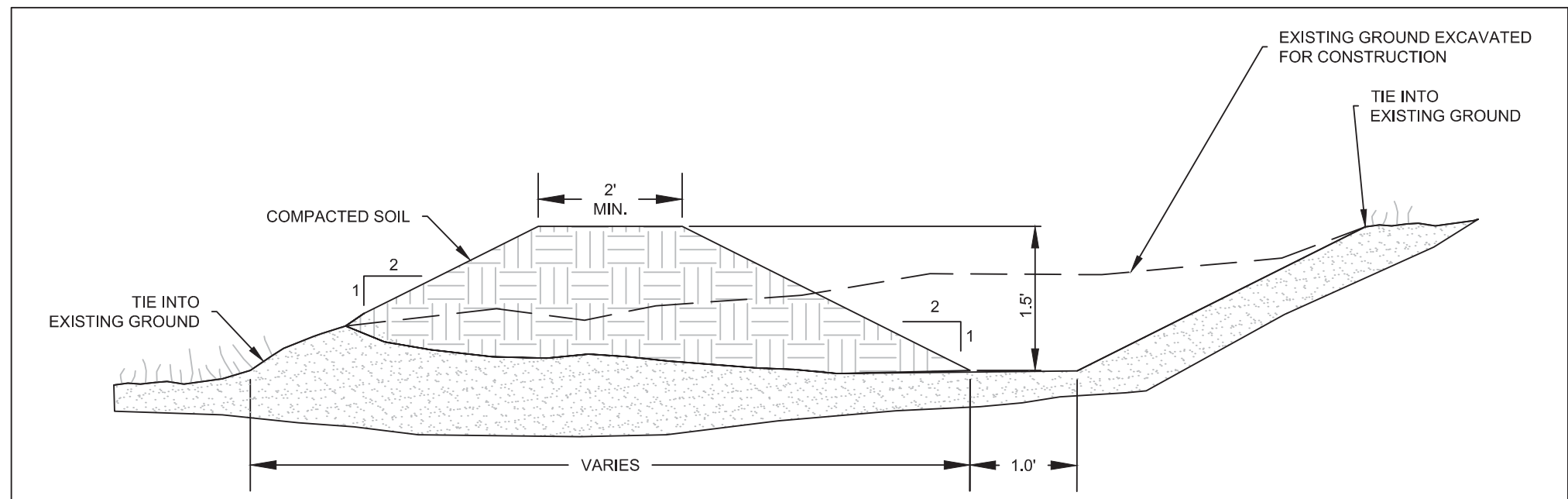
DISCHARGE FROM PUMP SHALL BE TO A STABLE AREA BELOW DISTURBANCES FROM THE WORK ZONE.

SUMP MAY BE USED IN CONJUNCTION WITH FILTER BAG WHERE ADDITIONAL FILTERING IS NEEDED.

DETAIL - DEWATERING



DETAIL - OUTLET PROTECTION



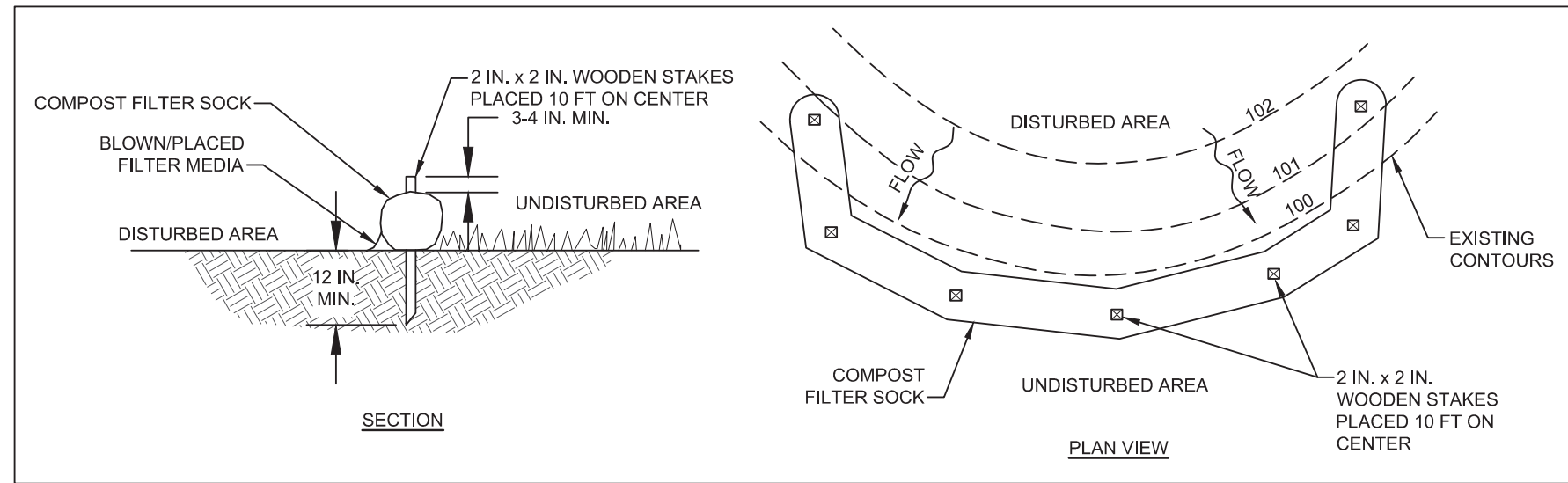
GENERAL NOTES:

1. REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.
2. ENSURE THAT THE MINIMUM CONSTRUCTED CROSS-SECTION MEETS ALL DESIGN REQUIREMENTS.
3. ENSURE THAT THE TOP OF THE CHANNEL IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION.
4. PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGRADING AND CLEANOUT.
5. VEGETATE THE CHANNEL IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.

MAINTENANCE NOTES:

1. INSPECT DIVERSIONS AT LEAST WEEKLY AND AFTER EACH RAINFALL EVENT THAT EXCEEDS 0.5 INCHES WITHIN A 24 HOUR PERIOD AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE FLOW AREA AND REPAIR THE DIVERSION RIDGE AS NEEDED

DETAIL - DIVERSION



DETAIL - FILTER SOCK

NOTES:

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR

DESC: CELL 2 IFC

TITLE

EROSION & SEDIMENT CONTROL DETAILS

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

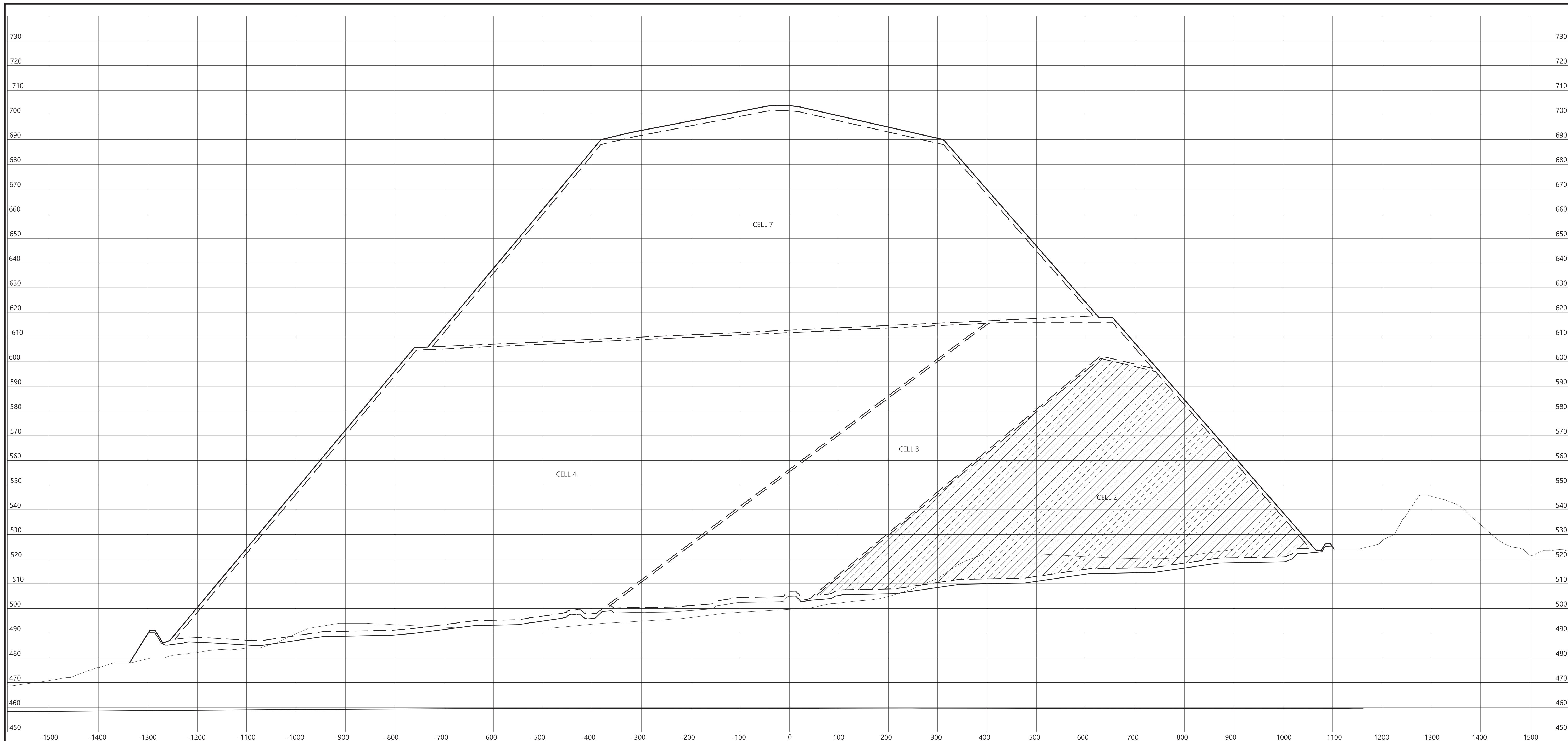
	SCALE: 1" = 100'	DES: CKH
	DWG TYPE: CIVIL	DFTR: PSS
	JOB NO: 7217-17-017	CHKD: CKH
	DATE: 04/13/18	ENGR: PSS
	APPD: MGR	

DWG SIZE	DRAWING NO.	REVISION
ANSI D 22"x34"	EBS_WESTLF_40P	0

PLANS PREPARED BY:

S&M, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

STATE OF KENTUCKY
MICHAEL G. ROWLAND
30506
Professional Engineer
No. 12187
Exp. 12/31/2018



BASELINE
E=1,465,800
N=513,400

LEGEND

- FINAL GRADE
- LINER GRADE
- - - WASTE LIMITS
- HIGH GROUND WATER LEVEL (5-10-05)
- EXISTING GRADE

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
1	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR
DESC: CELL 2 IFC								

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	03/2007	011-09323-005	LANDFILL	CKH	DJH	SJL	SJL	SJL
DESC:								

TITLE

CROSS-SECTION 5134+00

NOTE: THIS DRAWING IS PROVIDED FOR REFERENCE, NOT FOR CONSTRUCTION



PLANS PREPARED BY:

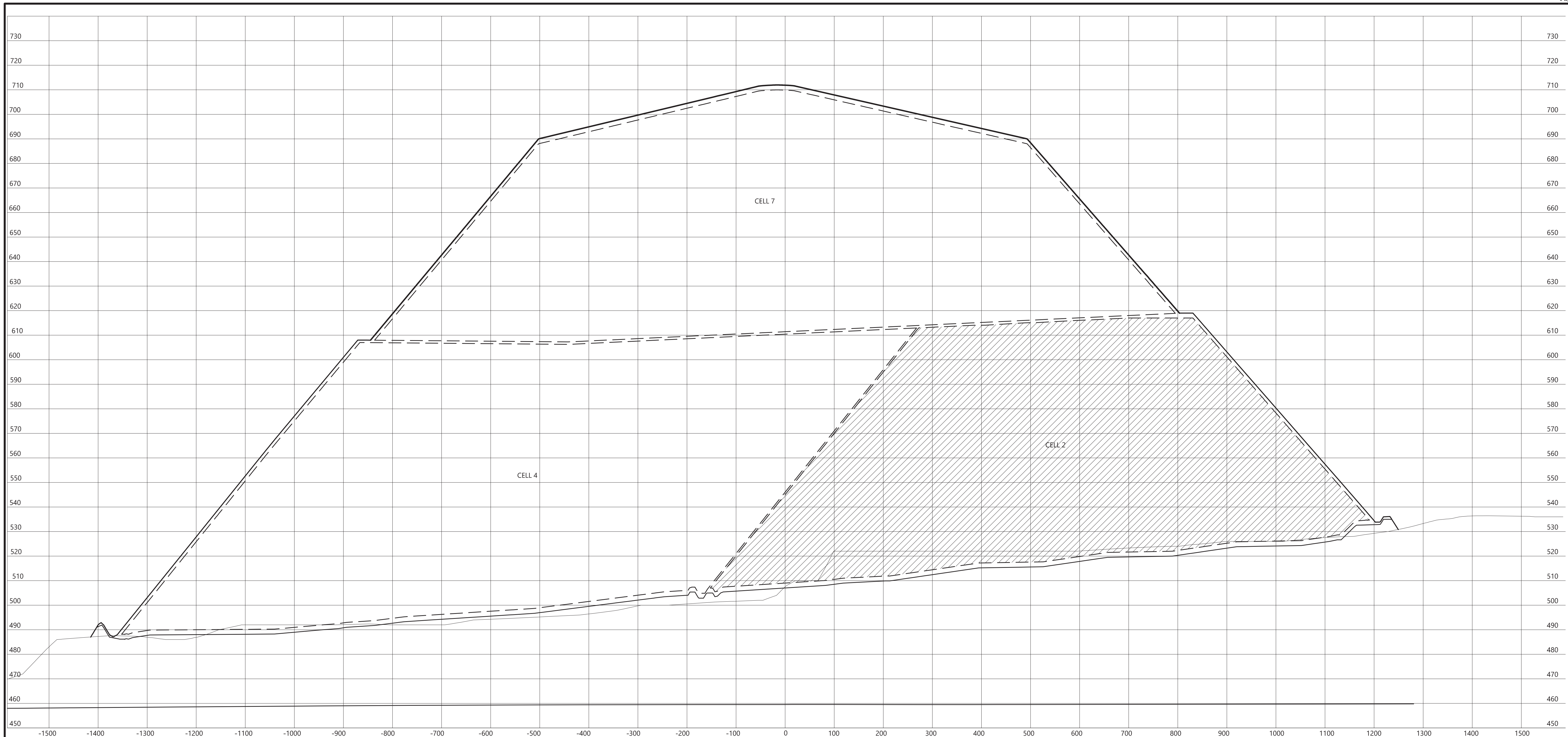
S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

SCALE: AS NOTED
DWG TYPE: CIVIL
JOB NO: 011-09323-005
DATE: 03/2007

FILENAME: EBS_WESTLF_46.dwg ENGINEERING PERMIT 602

DWG SIZE	DRAWING NUMBER	REVISION
ANSI D 22.0"X34.0"	EBS_WESTLF_46	1



BASELINE
E=1,465,800
N=513,800

LEGEND

- FINAL GRADE
- LINER GRADE
- WASTE LIMITS
- HIGH GROUND WATER LEVEL (5-10-05)
- EXISTING GRADE

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
1	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR

DESC: CELL 2 IFC

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
0	03/2007	011-09323-005	LANDFILL	CKH	DJH	SJL	SJL	SJL

DESC:

TITLE

CROSS-SECTION 5138+00

NOTE: THIS DRAWING IS PROVIDED FOR REFERENCE, NOT FOR CONSTRUCTION



PLANS PREPARED BY:

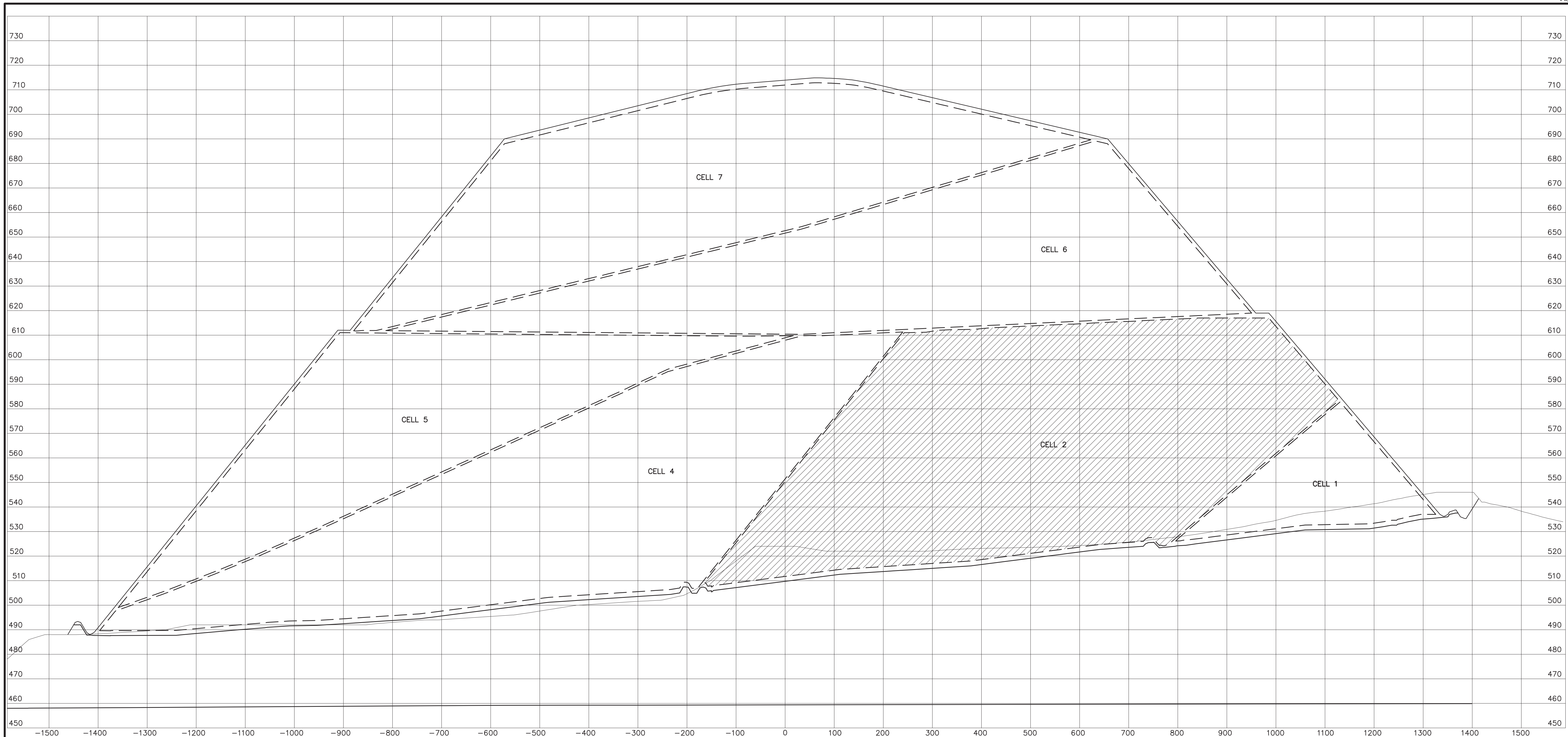
S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

SCALE: AS NOTED
DWG TYPE: CIVIL
JOB NO: 011-09323-005
DATE: 03/2007

ENGINEERING PERMIT 602

FILENAME: EBS_WESTLF_47.dwg	DRAWING NUMBER	REVISION
DWG SIZE: ANSI D 22.0"X34.0"	EBS_WESTLF_47	1



BASELINE
E=1,465,800
N=514,200

LEGEND

- FINAL GRADE
- LINER GRADE
- WASTE LIMITS
- HIGH GROUND WATER LEVEL (5-10-05)
- EXISTING GRADE

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	12/19/14	7217-14-004H	LANDFILL	CKH	PRR	MRM	MGR	MGR
DESC: SHEET RENUMBERED								
1	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
0	03/2007	011-09323-004	LANDFILL	CKH	DJH	SJL	SJL	SJL
DESC: IFC-2014 UPDATE								

TITLE
CROSS-SECTION 5142+00

FOR EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

	SCALE:	AS NOTED
	DWG TYPE:	CIVIL
	JOB NO:	011-09323-004
DATE:		03/2007

FILENAME: EBS_WESTLF_48.dwg ENGINEERING PERMIT 602

NOTE: THIS DRAWING IS PROVIDED FOR REFERENCE, NOT FOR CONSTRUCTION

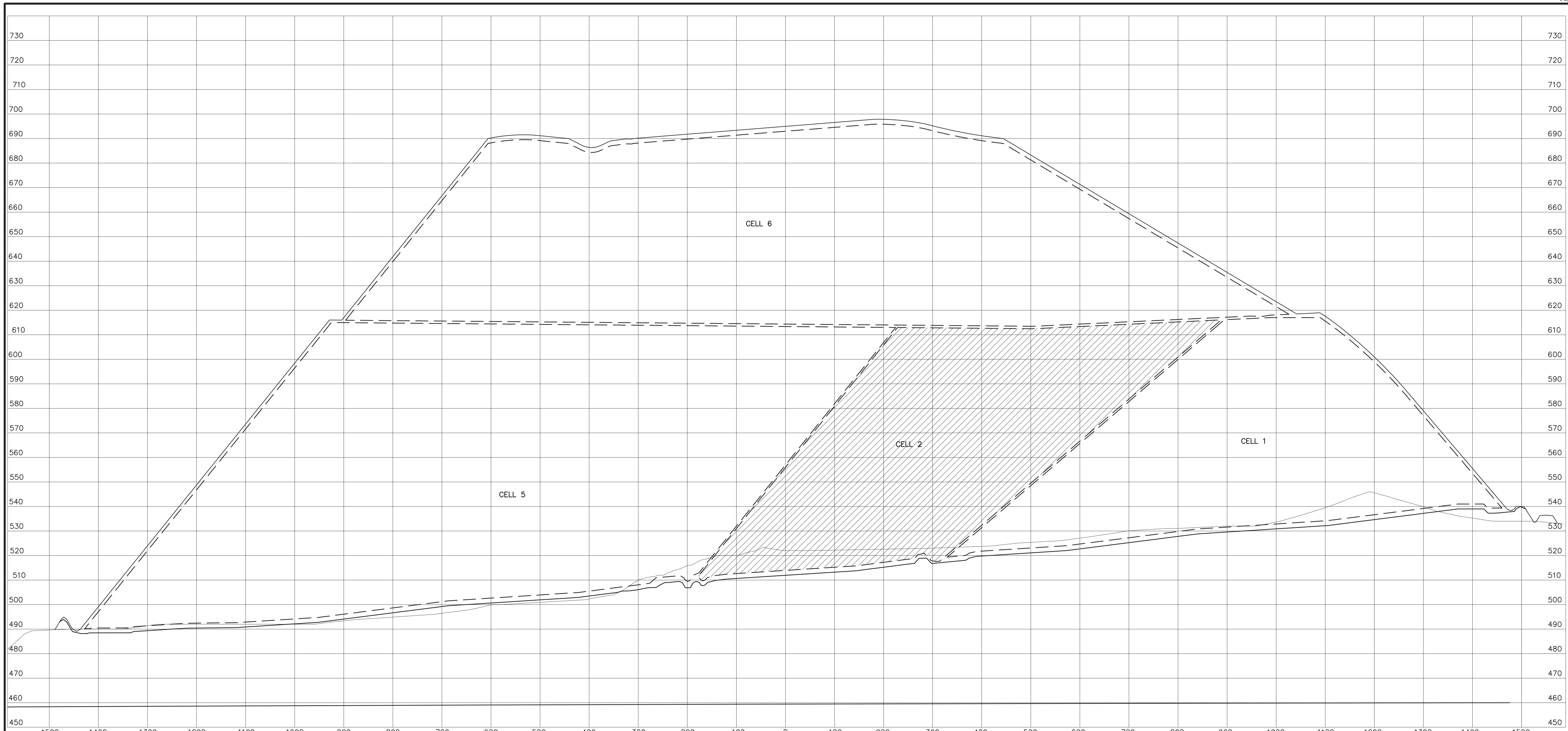


PLANS PREPARED BY:

S&ME, INC.
 6190 ENTERPRISE COURT
 DUBLIN, OH 43016
 (614) 793-2226

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
4	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR
DESC: CELL 2 IFC								
3	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								

DWG SIZE	ANSI D 22.0"x34.0"	DRAWING NUMBER	EBS_WESTLF_48	REVISION	4
----------	-----------------------	----------------	----------------------	----------	----------



BASELINE
E=1,465,800
N=514,600

LEGEND

- FINAL GRADE
- LINER GRADE
- - - WASTE LIMITS
- HIGH GROUND WATER LEVEL (5-10-05)
- EXISTING GRADE

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED								
1	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
0	03/2007	011-09323-004	LANDFILL	CKH	DJH	SJL	SJL	SJL
DESC: IFC-2014 UPDATE								

TITLE
CROSS-SECTION 5146+00

FOR
EAST BEND STATION - WEST SPECIAL WASTE LANDFILL

	SCALE:	AS NOTED
	DWG TYPE:	CIVIL
	JOB NO:	011-09323-004
DATE:	03/2007	
FILENAME:	EBS_WESTLF_49.dwg	ENGINEERING PERMIT 602

NOTE: THIS DRAWING IS PROVIDED FOR REFERENCE, NOT FOR CONSTRUCTION

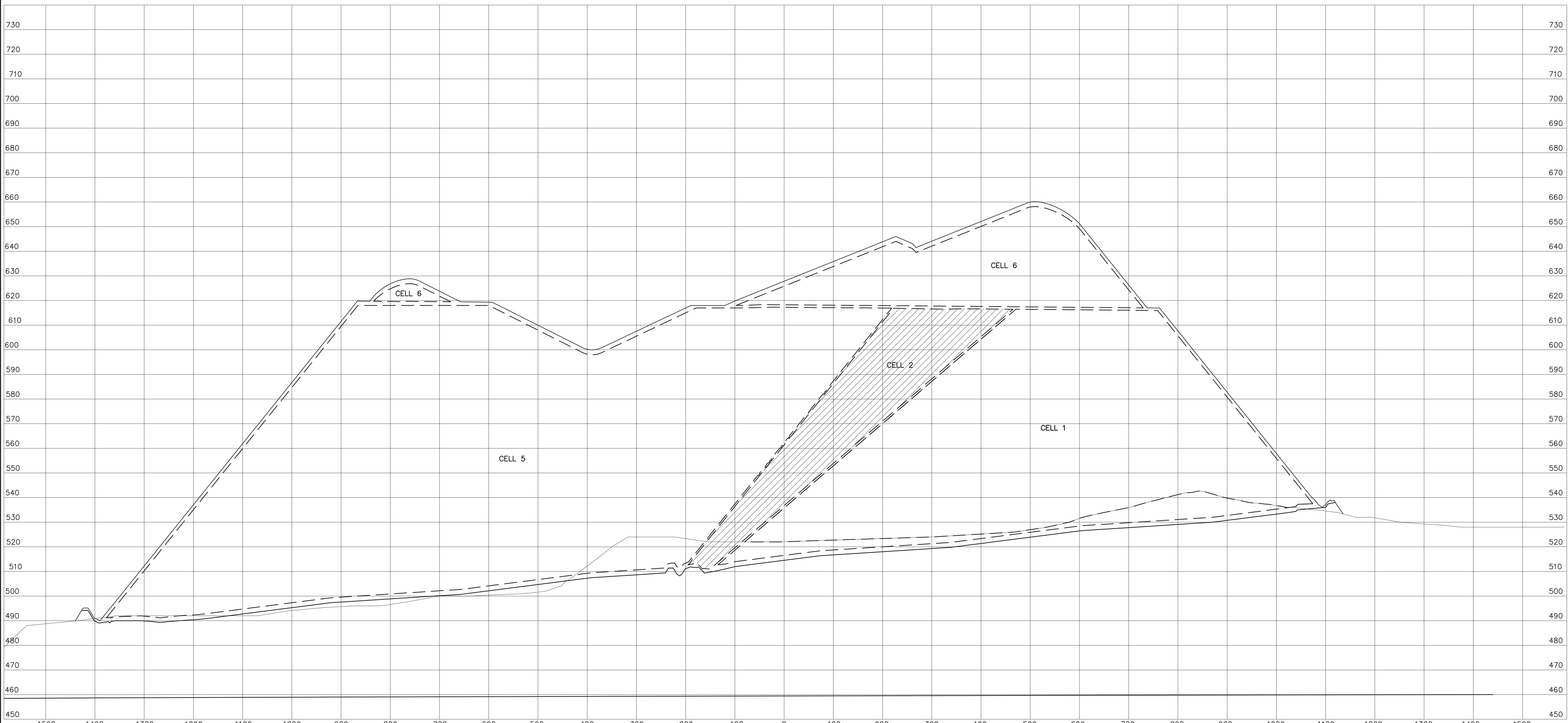


PLANS PREPARED BY:

S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
4	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR
DESC: CELL 2 IFC								
3	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								

ANSI D 22.0"x34.0"	DRAWING NUMBER EBS_WESTLF_49	REVISION 4
-----------------------	----------------------------------------	----------------------



BASELINE
E=1,465,800
N=515,000

LEGEND


- FINAL GRADE
- LINER GRADE
- WASTE LIMITS
- HIGH GROUND WATER LEVEL (5-10-05)
- EXISTING GRADE

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
2	12/19/14	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED								
1	04/2009	011-09323-010	LANDFILL	CKH	EDV	SJL	SJL	SJL
DESC: IFC, SHEET RENUMBERED								
0	03/2007	011-09323-004	LANDFILL	CKH	DJH	SJL	SJL	SJL
DESC: IFC-2014 UPDATE								

TITLE

CROSS-SECTION 5150+00

FOR
EAST BEND STATION - WEST SPECIAL WASTE LANDFILL



SCALE: AS NOTED
DWG TYPE: CIVIL
JOB NO: 011-09323-004
DATE: 03/2007

FILENAME: EBS_WESTLF_50.dwg ENGINEERING PERMIT 602

DWG SIZE	DRAWING NUMBER	REVISION
ANSI D 22.0"x34.0"	EBS_WESTLF_50	4

NOTE: THIS DRAWING IS PROVIDED FOR REFERENCE, NOT FOR CONSTRUCTION



PLANS PREPARED BY:



S&ME, INC.
6190 ENTERPRISE COURT
DUBLIN, OH 43016
(614) 793-2226

REV	DATE	JOB NO.	PROJECT TYPE	DES	DFTR	CHKD	ENGR	APPD
4	04/13/18	7217-17-017	LANDFILL	CKH	PSS	CKH	PSS	MGR
DESC: CELL 2 IFC								
3	06/20/16	7217-14-004H	LANDFILL	CKH	IDT	MRM	MGR	MGR
DESC: SHEET RENUMBERED TO MATCH PTI DRAWINGS								