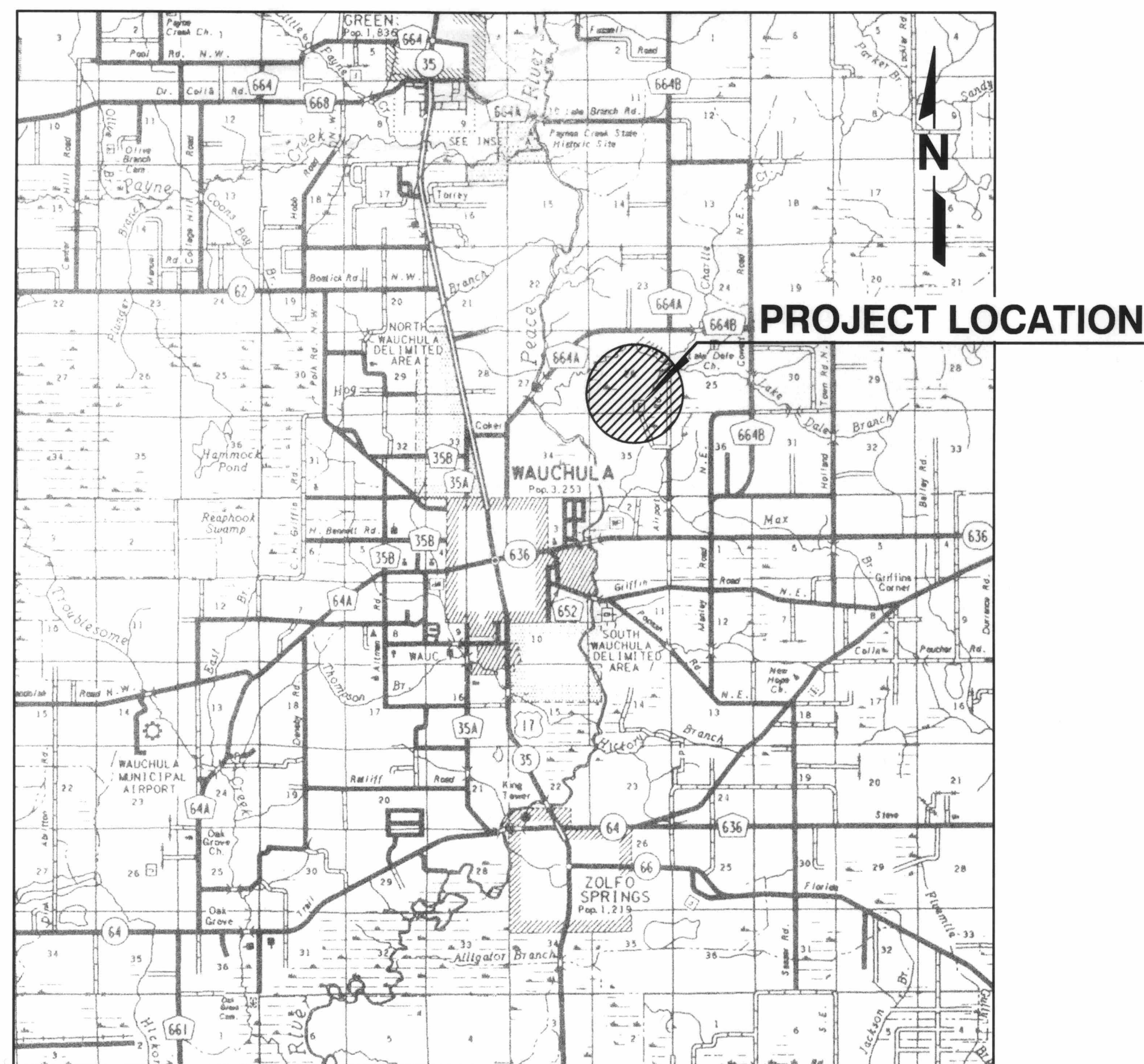


HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

PREPARED FOR
BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY, FLORIDA

APRIL 2009



LOCATION MAP
NOT TO SCALE



DRAWING INDEX

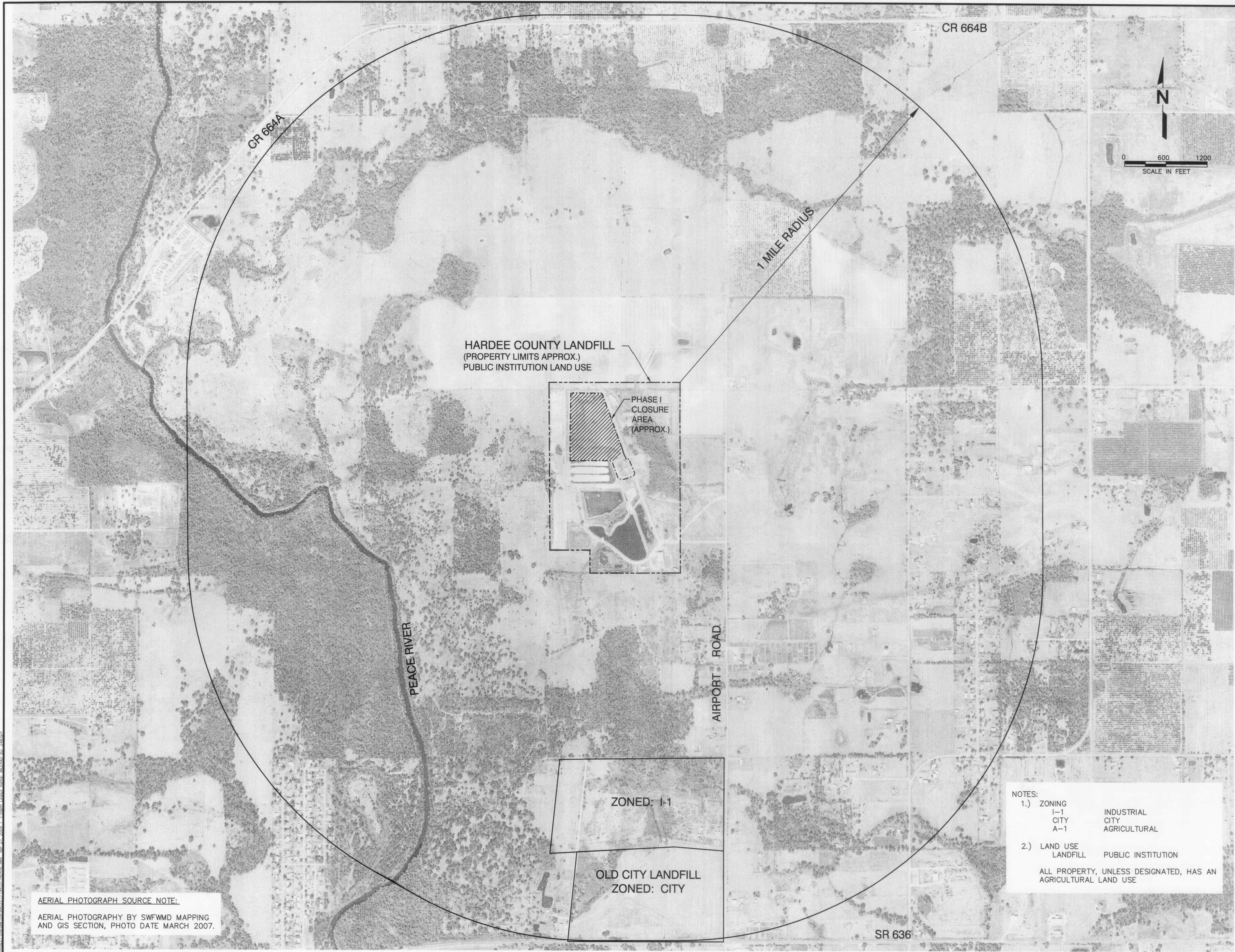
DRAWING NO.	DRAWING TITLE
1	COVER
2	OVERALL AERIAL SITE PLAN (MARCH 2007)
3	EXISTING CONDITIONS AERIAL PHOTOGRAPH (06/12/2008)
4a	EXISTING CONDITIONS TOPOGRAPHIC SURVEY (06/12/2008)
4b	EXISTING CONDITIONS TOPOGRAPHIC SURVEY (06/12/2008)
5	PROJECT AREA EXISTING CONDITIONS SITE PLAN
6	TOP OF INTERMEDIATE COVER SITE PLAN
6a	TOP OF INTERMEDIATE COVER GRADING CONTROL POINTS SITE PLAN
6b	TOP OF INTERMEDIATE COVER GRADING CONTROL POINTS TABLE
7	FINAL CLOSURE SITE PLAN
7a	TOP OF FINAL CLOSURE GRADING CONTROL POINTS SITE PLAN
7b	TOP OF FINAL CLOSURE GRADING CONTROL POINTS TABLE - 1
7c	TOP OF FINAL CLOSURE GRADING CONTROL POINTS TABLE - 2
7d	TOP OF PERIMETER SWALE GRADING CONTROL POINTS SITE PLAN
7e	TOP OF PERIMETER SWALE GRADING CONTROL POINTS TABLE
8	LFG CONTROL SYSTEM SITE PLAN
9	FINAL CLOSURE SECTIONS
10	DETAILS - 1
11	DETAILS - 2
12	DETAILS - 3
13	DETAILS - 4
14	DETAILS - 5
15	DETAILS - 6
16	DETAILS - 7

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100
TAMPA, FLORIDA 33610
PH (813) 621-0080 FAX NO. (813) 623-6757
WWW.SCSENGINEERS.COM
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
SCS PROJECT NO. 09199033.17

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JUL 13 2009
SOUTHWEST DISTRICT
TAMPA

07/13/2009 - REVISED PER FDEP RAI NO. 1 - SRF

SHANE R. FISCHER
REGISTERED PROFESSIONAL ENGINEER
FLORIDA LICENSE NO. 58076



AERIAL PHOTOGRAPH SOURCE NOTE:
 AERIAL PHOTOGRAPHY BY SWFWMD MAPPING
 AND GIS SECTION, PHOTO DATE MARCH 2007.

NOTES:
 1.) ZONING
 I-1 INDUSTRIAL
 CITY CITY
 A-1 AGRICULTURAL
 2.) LAND USE
 LANDFILL PUBLIC INSTITUTION
 ALL PROPERTY, UNLESS DESIGNATED, HAS AN
 AGRICULTURAL LAND USE

2



REV	DATE	DESCRIPTION	BY
<<	<<	<<	<<
<<	<<	<<	<<
<<	<<	<<	<<
<<	<<	<<	<<

DRAWING TITLE
**OVERALL AERIAL SITE PLAN
 (MARCH 2007)**

PROJECT TITLE
**HARDEE COUNTY LANDFILL
 PHASE I CLOSURE
 CONSTRUCTION DRAWINGS**

CLIENT
**HARDEE COUNTY
 BOARD OF
 COUNTY COMMISSIONERS**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 SUITE 100, TAMPA, FL 33610
 813.674.0080 FAX 813.674.0747
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
 DATE 07/14/05 BY SRP
 091899033.17 DIR: CEH APP: CEH
 DAW/SRF

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 APR 30 2009
 SOUTHWEST DISTRICT
 TAMPA

CADD FILE:
 993317AERIAL

DATE:
 APRIL 2009

SCALE:
 AS SHOWN

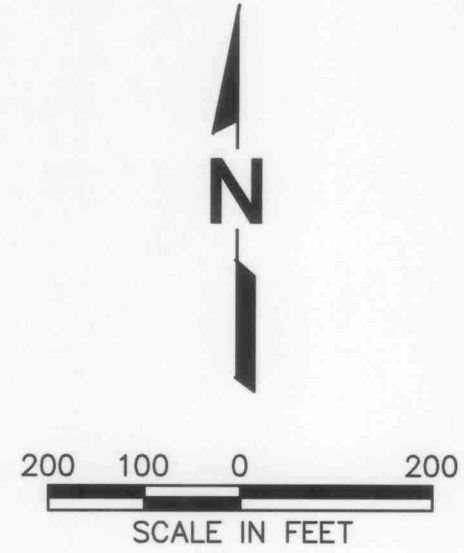
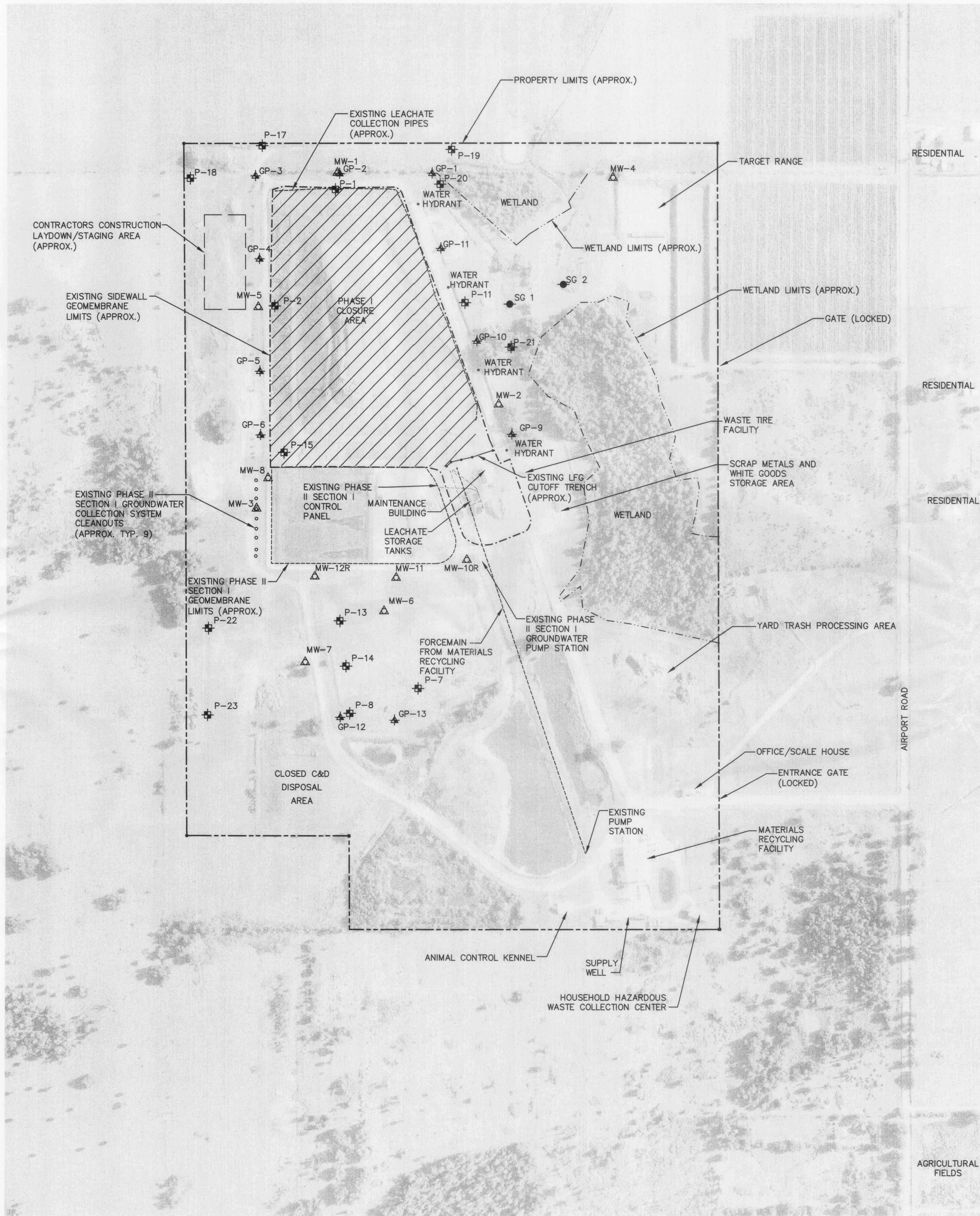
DRAWING NO.

WELL NUMBER	NORTHING	EASTING
MW-1	1177604.2260	726482.488
MW-2	1176800.972	727061.767
MW-4	1177588.34	727469.216
MW-5	1177136.888	726199.5
MW-6	1176081.769	726652.386
MW-7	1175903.729	726370.416
MW-8	1176543.71	726234.815
MW-3	1176439.418	726193.823
MW-10R	1176262.89	726947.09
MW-11	1176198.382	726695.813
MW-12R	1176201.53	726403.89

WELL NUMBER	NORTHING	EASTING
GP-1	1177602.658	726820.612
GP-2	1177601.357	726490.331
GP-3	1177593.371	726188.964
GP-4	1177304.268	726203.456
GP-5	1176913.338	726205.276
GP-6	1176692.365	726207.86
GP-9	1176697.437	727108.717
GP-10	1177021.197	726982.352
GP-11	1177341.968	726852.393
GP-12	1175710.195	726496.639
GP-13	1175700.036	726690.812

WELL NUMBER	NORTHING	EASTING
P-1	1177546.113	726475.379
P-2	1177141.021	726258.323
P-7	1175812.82	726774.259
P-8	1175724.264	726530.637
P-11	1177153.801	726939.428
P-13	1176047.296	726494.261
P-14	1175889.67	726516.147
P-15	1176632.041	726292.544
P-17	1177698.331	726212.616
P-18	1177585.22	725955.47
P-19	1177685.19	726890.76
P-20	1177564.956	726849.789
P-21	1177000.302	727105.589
P-22	1176021.166	726023.336
P-23	1175717.48	726021.42

POINT NUMBER	NORTHING	EASTING
SG 1	1177149.111	727100.065
SG 2	1177217.671	727292.17



- LEGEND**
- MW-7 ▲ EXISTING GROUNDWATER MONITORING WELL
 - GP-6 ▲ EXISTING GAS MONITORING PROBE
 - P-15 □ EXISTING PIEZOMETER
 - EXISTING MANHOLE
 - SG-2 ● EXISTING STAFF GAUGE
 - EXISTING GROUNDWATER COLLECTION SYSTEM CLEANOUTS (APPROX. TYP. 9)
 - - - EXISTING LFG CUTOFF TRENCH
 - - - EXISTING SIDEWALL GEOMEMBRANE LIMITS
 - - - PROPERTY LIMITS
 - - - WETLAND LIMITS
 - - - CONTRACTORS CONSTRUCTION LAYDOWN/STAGING AREA (APPROX.)
 - - - EXISTING LEACHATE COLLECTION LINE
 - ▨ APPROXIMATE LIMITS OF PROPOSED PHASE I CLOSURE AREA

- NOTES:**
- THE GENERAL LOCATION OF THE CONTRACTOR'S CONSTRUCTION LAYDOWN/STAGING AREA IS SHOWN ON THE DRAWING. THE COUNTY AND THE CONTRACTOR WILL COORDINATE ON THE FINAL BOUNDARIES OF THE CONSTRUCTION LAYDOWN/STAGING AREA AND CONTRACTOR'S ACCESS FROM THE AREA TO THE MAIN ROAD AT THE PRE-CONSTRUCTION MEETING. THE CONSTRUCTION LAYDOWN/STAGING AREA SHALL BE GRADED TO EXISTING GRADES, SEEDED AND MULCHED AS REQUIRED UPON COMPLETION OF THE PROJECT PER THE SPECIFICATIONS.

AERIAL PHOTOGRAPH SOURCE NOTE:
 AERIAL PHOTOGRAPHY PERFORMED BY
 PICKETT & ASSOCIATES, INC.
 502 MAIN STREET
 WACHULA, FLORIDA 33873
 PHONE: (863) 773-3990
 PHOTO DATE: JUNE 12, 2008.



REV	DATE	DESCRIPTION	BY

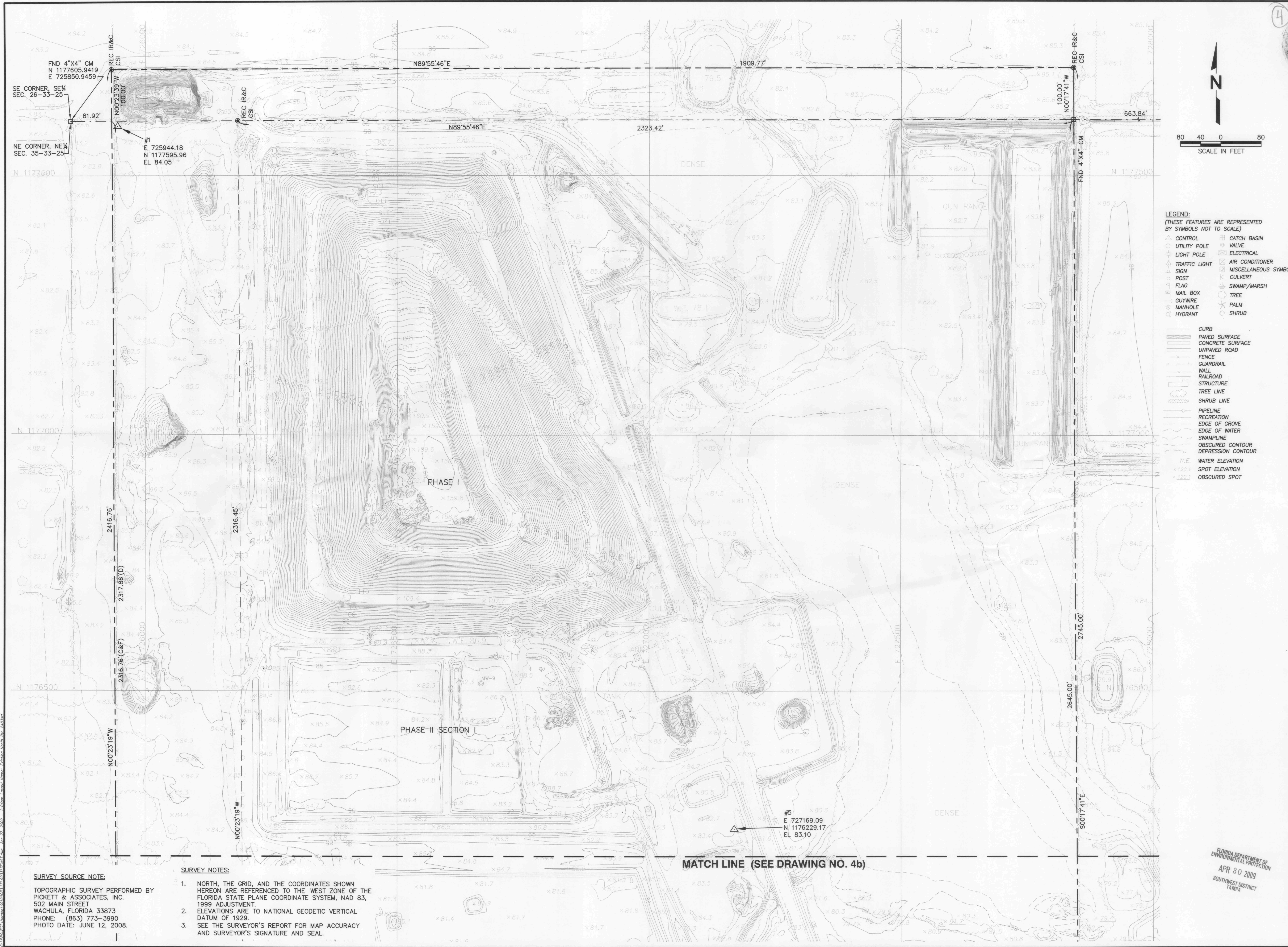
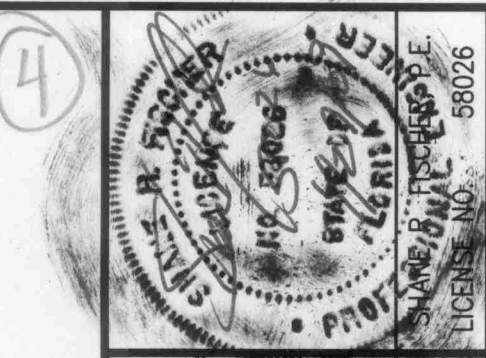
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 PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS**

CLIENT: **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 821-0860 FAX 813 823-8757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
 PROJ. NO. 993317
 DWG. BY: JN/RDU
 CHK. BY: CEH
 DATE: APR 30 2009
 DAW/SRF
 O/A R/W: BRF
 APP. BY: CEH

CADD FILE: **993317SEQAERIAL**
 DATE: **APRIL 2009**
 SCALE: **AS SHOWN**
 DRAWING NO. **3 of 16**

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 APR 30 2009
 SOUTHWEST DISTRICT TAMPA



LEGEND:
(THESE FEATURES ARE REPRESENTED BY SYMBOLS NOT TO SCALE)

△ CONTROL	⊠ CATCH BASIN
○ UTILITY POLE	⊞ VALVE
⊙ LIGHT POLE	⊞ ELECTRICAL
⊙ TRAFFIC LIGHT	⊞ AIR CONDITIONER
⊙ SIGN	⊞ MISCELLANEOUS SYMBOL
⊙ POST	⊞ CULVERT
⊙ FLAG	⊞ SWAMP/MARSH
⊙ MAIL BOX	⊞ TREE
⊙ GUYWIRE	⊞ PALM
⊙ MANHOLE	⊞ SHRUB
⊙ HYDRANT	

▬ CURB
▬ PAVED SURFACE
▬ CONCRETE SURFACE
▬ UNPAVED ROAD
▬ FENCE
▬ GUARDRAIL
▬ WALL
▬ RAILROAD
▬ STRUCTURE
▬ TREE LINE
▬ SHRUB LINE
▬ PIPELINE
▬ RECREATION
▬ EDGE OF GROVE
▬ EDGE OF WATER
▬ SWAMPLINE
▬ OBSCURED CONTOUR
▬ DEPRESSION CONTOUR
W.E. WATER ELEVATION
• SPOT ELEVATION
○ OBSCURED SPOT

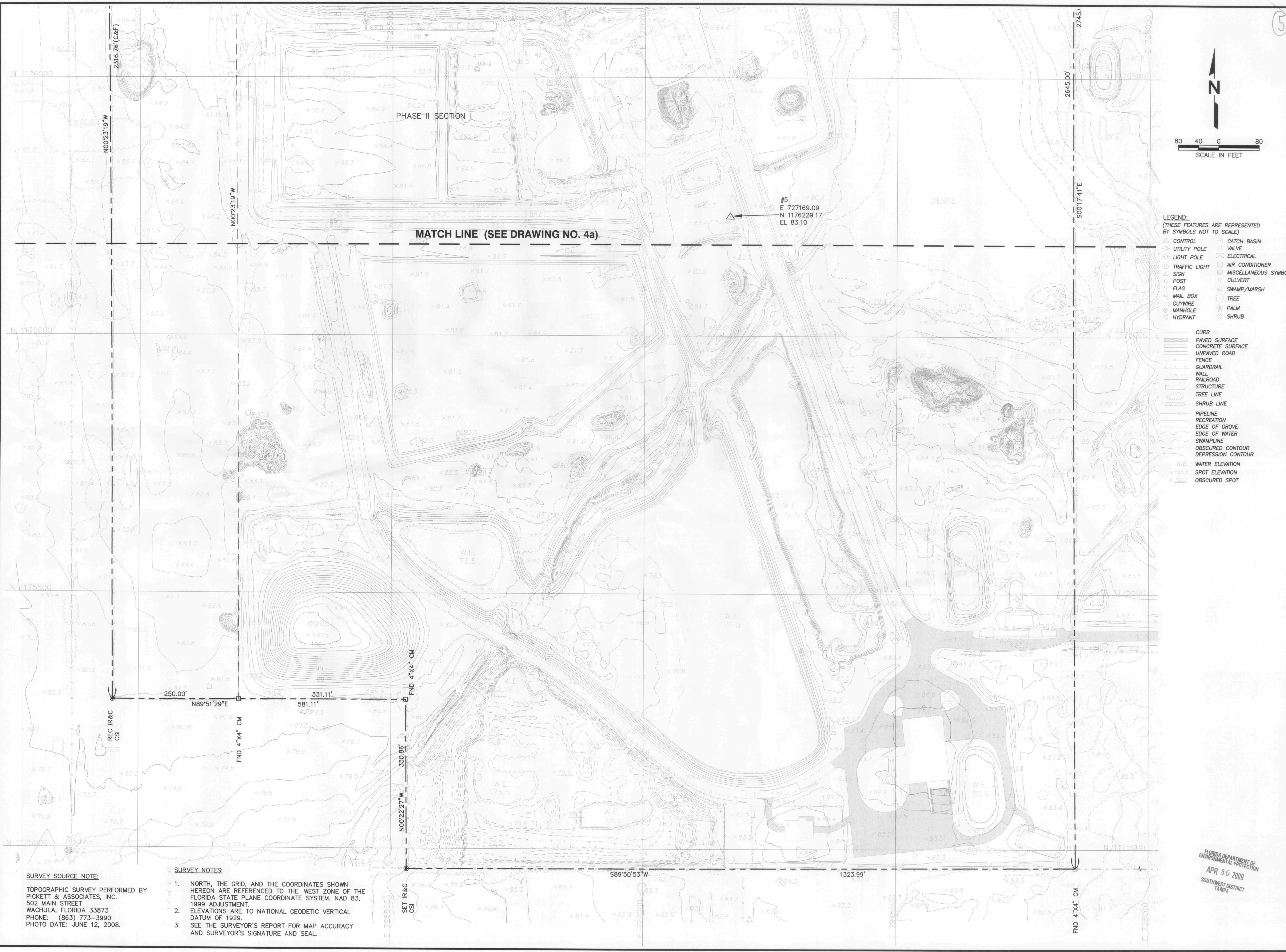
DRAWING TITLE EXISTING CONDITIONS TOPOGRAPHIC SURVEY (06/12/08)	
PROJECT TITLE HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS	
CLIENT HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	DRAWING NO. 4a of 16
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610 813 821-0090 FAX 813 624-6757 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004682 PROJ. NO. 993033.17 DATE: APR 30 2009 SOUTHWEST DISTRICT TAMPA	CADD FILE: 993317EXIST
DATE: APRIL 2009	SCALE: AS SHOWN
BY: [Signature]	DESCRIPTION:
REV: [Table]	DATE:

SURVEY SOURCE NOTE:
TOPOGRAPHIC SURVEY PERFORMED BY PICKETT & ASSOCIATES, INC. 502 MAIN STREET WACHULA, FLORIDA 33873 PHONE: (863) 773-3990 PHOTO DATE: JUNE 12, 2008.

- SURVEY NOTES:**
- NORTH, THE GRID, AND THE COORDINATES SHOWN HEREON ARE REFERENCED TO THE WEST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83, 1999 ADJUSTMENT.
 - ELEVATIONS ARE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.
 - SEE THE SURVEYOR'S REPORT FOR MAP ACCURACY AND SURVEYOR'S SIGNATURE AND SEAL.

MATCH LINE (SEE DRAWING NO. 4b)

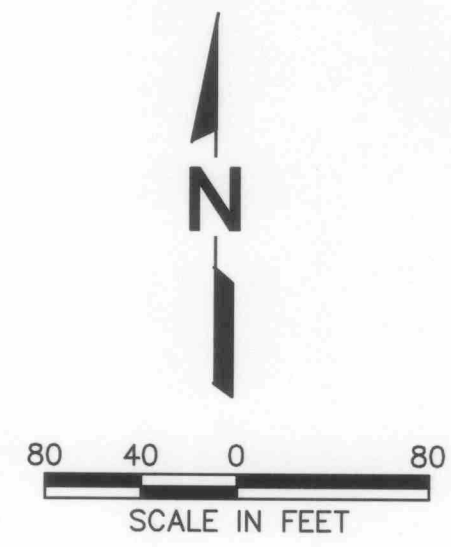
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 30 2009
SOUTHWEST DISTRICT TAMPA



PHASE II SECTION I

MATCH LINE (SEE DRAWING NO. 4a)

#5
E 727169.09
N 1176229.17
EL. 83.10



- LEGEND:**
(THESE FEATURES ARE REPRESENTED BY SYMBOLS NOT TO SCALE)
- △ CONTROL
 - UTILITY POLE
 - LIGHT POLE
 - TRAFFIC LIGHT
 - SIGN
 - FLAG
 - MAIL BOX
 - GUYWIRE
 - MANHOLE
 - HYDRANT
 - CATCH BASIN
 - VALVE
 - ELECTRICAL
 - AIR CONDITIONER
 - MISCELLANEOUS SYMBOL
 - CULVERT
 - SWAMP/MARSH
 - TREE
 - PALM
 - SHRUB
-
- ▬ CURB
 - ▬ PAVED SURFACE
 - ▬ CONCRETE SURFACE
 - ▬ UNPAVED ROAD
 - ▬ FENCE
 - ▬ GUARDRAIL
 - ▬ WALL
 - ▬ RAILROAD
 - ▬ STRUCTURE
 - ▬ TREE LINE
 - ▬ SHRUB LINE
 - ▬ PIPELINE
 - ▬ RECREATION
 - ▬ EDGE OF GROVE
 - ▬ EDGE OF WATER
 - ▬ SWAMPLINE
 - ▬ OBSCURED CONTOUR
 - ▬ DEPRESSION CONTOUR
 - W.E. WATER ELEVATION
 - SPOT ELEVATION
 - OBSCURED SPOT

SURVEY SOURCE NOTE:

TOPOGRAPHIC SURVEY PERFORMED BY PICKETT & ASSOCIATES, INC. 502 MAIN STREET WACHULA, FLORIDA 33873 PHONE: (863) 773-3990 PHOTO DATE: JUNE 12, 2008.

SURVEY NOTES:

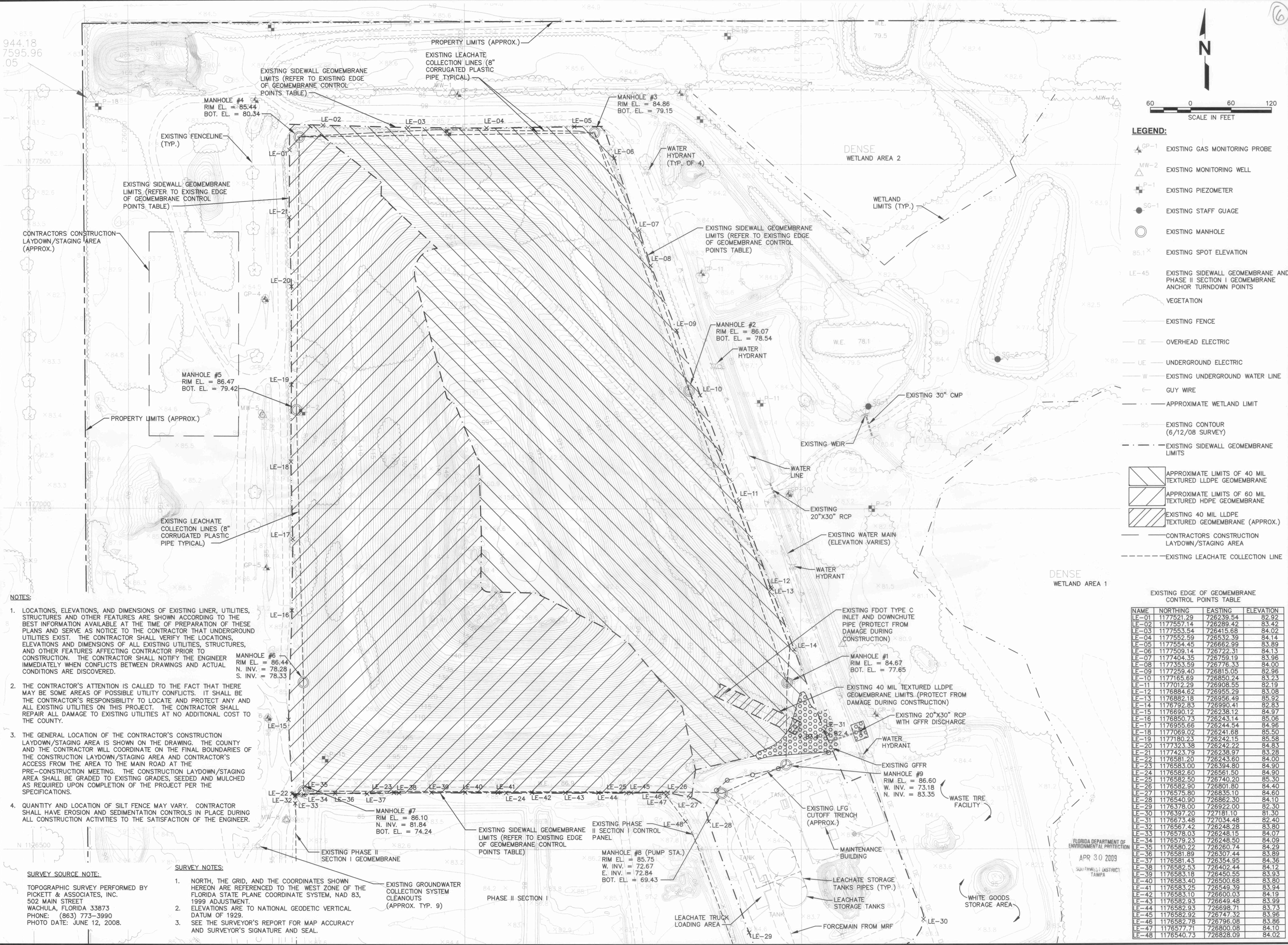
1. NORTH, THE GRID, AND THE COORDINATES SHOWN HEREON ARE REFERENCED TO THE WEST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83, 1999 ADJUSTMENT.
2. ELEVATIONS ARE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.
3. SEE THE SURVEYOR'S REPORT FOR MAP ACCURACY AND SURVEYOR'S SIGNATURE AND SEAL.

5							
DRAWING TITLE		EXISTING CONDITIONS TOPOGRAPHIC SURVEY (06/12/08)		PROJECT TITLE		HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS	
CLIENT		HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS		BY			
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 101 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00064822 PROJECT NO. 0919003317		DATE		REV		DESCRIPTION	
CADD FILE:		993317EXIST		DATE		APRIL 2009	
SCALE:		AS SHOWN		DRAWING NO.		4b of 16	

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 30 2009
SOUTHWEST DISTRICT
TAMPA



6



- LEGEND:**
- GP-1 EXISTING GAS MONITORING PROBE
 - MW-2 EXISTING MONITORING WELL
 - P-1 EXISTING PIEZOMETER
 - SG-1 EXISTING STAFF GAUGE
 - EXISTING MANHOLE
 - 85.1' EXISTING SPOT ELEVATION
 - LE-45 EXISTING SIDEWALL GEOMEMBRANE AND PHASE II SECTION I GEOMEMBRANE ANCHOR TURNDOWN POINTS
 - VEGETATION
 - EXISTING FENCE
 - OE OVERHEAD ELECTRIC
 - UE UNDERGROUND ELECTRIC
 - W EXISTING UNDERGROUND WATER LINE
 - GUY WIRE
 - APPROXIMATE WETLAND LIMIT
 - 85 EXISTING CONTOUR (6/12/08 SURVEY)
 - EXISTING SIDEWALL GEOMEMBRANE LIMITS
 - APPROXIMATE LIMITS OF 40 MIL TEXTURED LLDPE GEOMEMBRANE
 - APPROXIMATE LIMITS OF 60 MIL TEXTURED HDPE GEOMEMBRANE
 - EXISTING 40 MIL LLDPE TEXTURED GEOMEMBRANE (APPROX.)
 - CONTRACTORS CONSTRUCTION LAYDOWN/STAGING AREA
 - EXISTING LEACHATE COLLECTION LINE

EXISTING EDGE OF GEOMEMBRANE CONTROL POINTS TABLE

NAME	NORTHING	EASTING	ELEVATION
LE-01	1177521.29	726335.54	82.92
LE-02	1177557.14	726289.42	82.82
LE-03	1177553.54	726415.68	84.02
LE-04	1177552.59	726532.39	84.14
LE-05	1177554.45	726662.99	83.89
LE-06	1177509.14	726722.31	84.13
LE-07	1177404.35	726759.19	83.96
LE-08	1177353.59	726776.33	84.00
LE-09	1177259.40	726815.05	82.96
LE-10	1177165.69	726850.24	83.23
LE-11	1177012.29	726908.55	82.19
LE-12	1176884.62	726955.29	83.08
LE-13	1176882.18	726956.49	85.92
LE-14	1176792.83	726990.41	82.83
LE-15	1176690.12	726238.12	84.97
LE-16	1176850.73	726243.14	85.06
LE-17	1176955.66	726244.54	84.96
LE-18	1177089.02	726241.68	85.50
LE-19	1177180.23	726242.15	85.58
LE-20	1177323.38	726242.22	84.83
LE-21	1177423.79	726238.97	83.28
LE-22	1176581.20	726243.60	84.00
LE-23	1176583.00	726394.80	84.90
LE-24	1176582.60	726561.50	84.90
LE-25	1176582.50	726740.20	85.30
LE-26	1176582.90	726801.80	84.40
LE-27	1176575.80	726835.10	84.60
LE-28	1176540.90	726862.30	84.10
LE-29	1176378.00	726922.00	82.30
LE-30	1176397.20	727181.10	81.30
LE-31	1176673.48	727034.48	82.40
LE-32	1176567.42	726248.28	83.80
LE-33	1176578.03	726248.15	84.07
LE-34	1176579.23	726248.80	84.09
LE-35	1176580.22	726260.74	84.29
LE-36	1176581.89	726307.44	83.89
LE-37	1176581.43	726354.95	84.36
LE-38	1176582.53	726402.44	84.12
LE-39	1176583.18	726450.55	83.93
LE-40	1176583.40	726500.68	83.80
LE-41	1176583.25	726549.39	83.94
LE-42	1176583.10	726600.03	84.19
LE-43	1176582.93	726649.48	83.99
LE-44	1176582.92	726698.71	83.73
LE-45	1176582.92	726747.32	83.96
LE-46	1176582.78	726796.08	83.86
LE-47	1176577.71	726800.08	84.10
LE-48	1176540.73	726828.09	84.02

- NOTES:**
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING LINER, UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS AND SERVE AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
 - THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE MAY BE SOME AREAS OF POSSIBLE UTILITY CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES AT NO ADDITIONAL COST TO THE COUNTY.
 - THE GENERAL LOCATION OF THE CONTRACTOR'S CONSTRUCTION LAYDOWN/STAGING AREA IS SHOWN ON THE DRAWING. THE COUNTY AND THE CONTRACTOR WILL COORDINATE ON THE FINAL BOUNDARIES OF THE CONSTRUCTION LAYDOWN/STAGING AREA AND CONTRACTOR'S ACCESS FROM THE AREA TO THE MAIN ROAD AT THE PRE-CONSTRUCTION MEETING. THE CONSTRUCTION LAYDOWN/STAGING AREA SHALL BE GRADED TO EXISTING GRADES, SEEDED AND MULCHED AS REQUIRED UPON COMPLETION OF THE PROJECT PER THE SPECIFICATIONS.
 - QUANTITY AND LOCATION OF SILT FENCE MAY VARY. CONTRACTOR SHALL HAVE EROSION AND SEDIMENTATION CONTROLS IN PLACE DURING ALL CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE ENGINEER.

SURVEY SOURCE NOTE:
 TOPOGRAPHIC SURVEY PERFORMED BY PICKETT & ASSOCIATES, INC. 502 MAIN STREET WACHULA, FLORIDA 33873 PHONE: (863) 773-3990 PHOTO DATE: JUNE 12, 2008.

SURVEY NOTES:

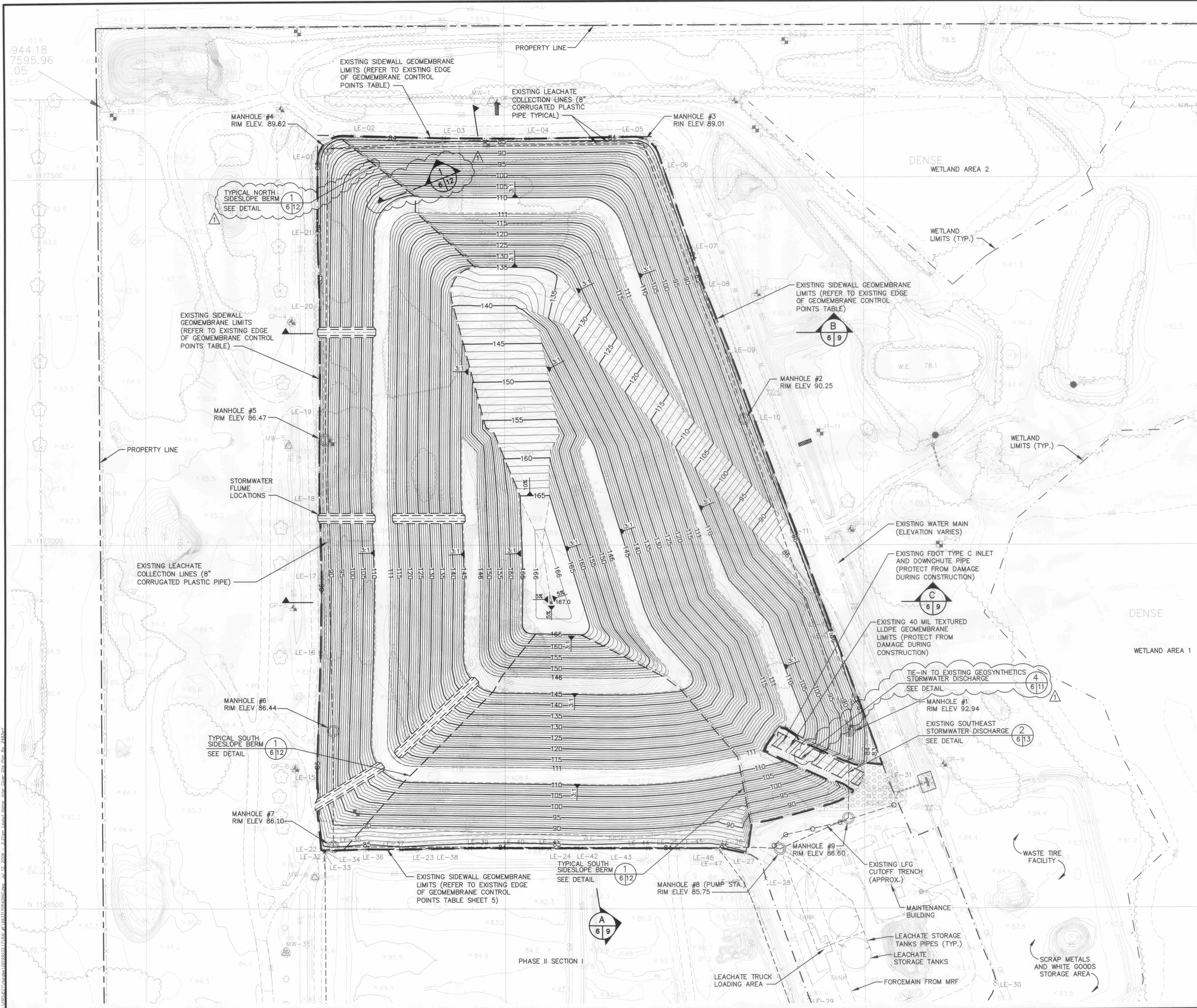
- NORTH, THE GRID, AND THE COORDINATES SHOWN HEREON ARE REFERENCED TO THE WEST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83, 1999 ADJUSTMENT.
- ELEVATIONS ARE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- SEE THE SURVEYOR'S REPORT FOR MAP ACCURACY AND SURVEYOR'S SIGNATURE AND SEAL.

PROJECT AREA
 EXISTING CONDITIONS SITE PLAN
PROJECT TITLE
 HARDEE COUNTY LANDFILL
 PHASE I CLOSURE
 CONSTRUCTION DRAWINGS

COUNTY COMMISSIONERS
 HARDEE COUNTY
 BOARD OF

CLIENT
 SCs ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813.821.0080 FAX 813.821.6757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00040882

CADD FILE:
 993317EXSITE
DATE:
 APRIL 2009
SCALE:
 AS SHOWN
DRAWING NO.:
 5 of 16

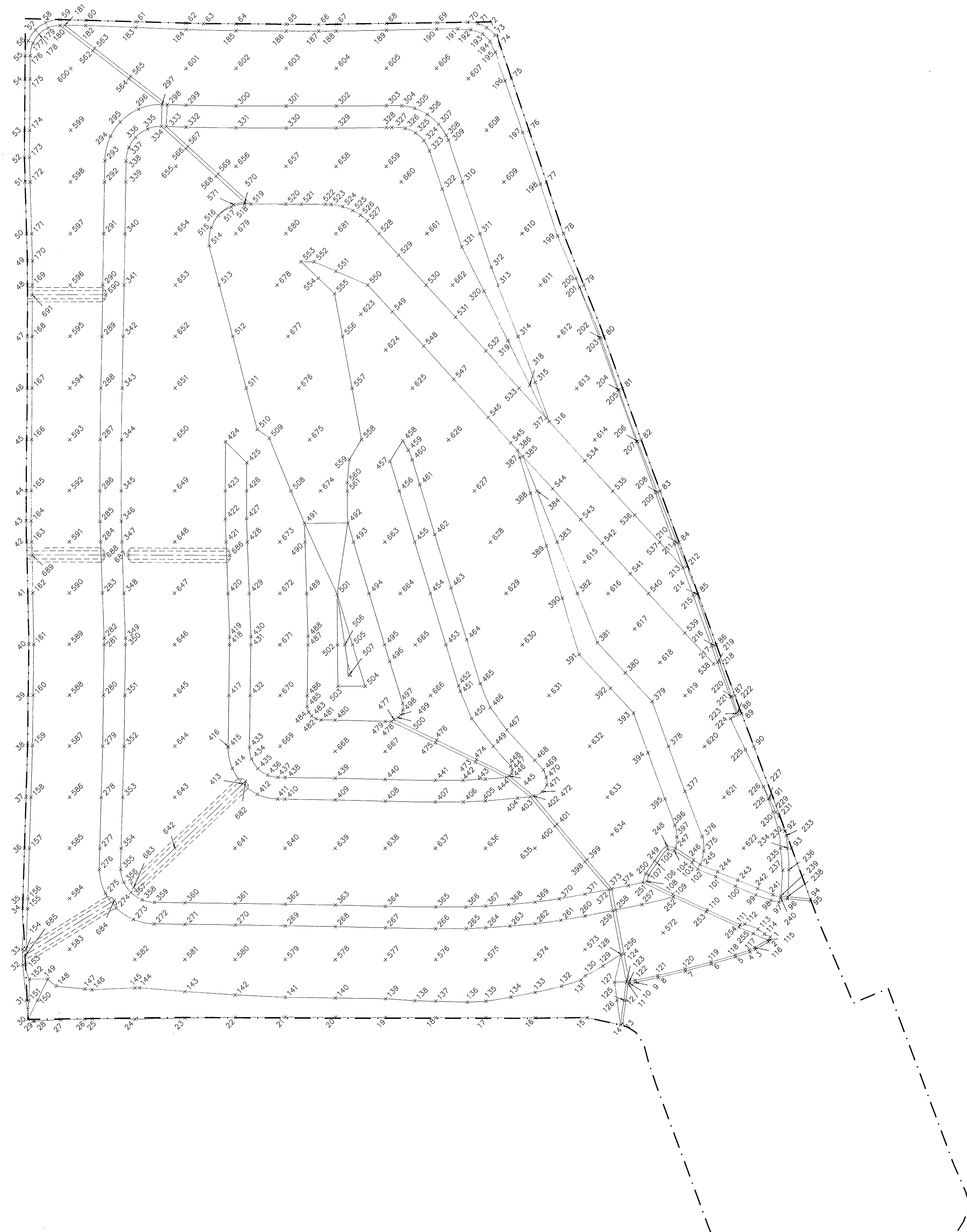
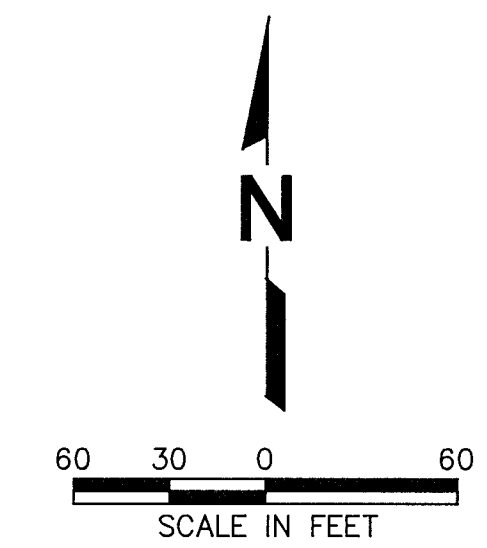
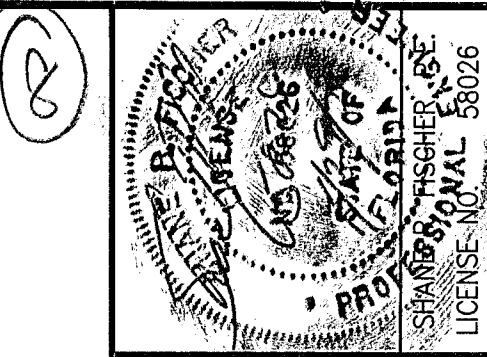


LEGEND

▲ GP-1	EXISTING GAS MONITORING PROBE
△ MW-2	EXISTING MONITORING WELL
⊕ P-11	EXISTING PIEZOMETER
● SG-1	EXISTING STAFF GAUGE
○	EXISTING MANHOLE
---	EXISTING LEACHATE COLLECTION PIPE OR FORCEMAIN
⋈	EXISTING SPOT ELEVATION
---	EXISTING SIDEWALL GEOMEMBRANE LIMITS
⋈	EXISTING VEGETATION
—	EXISTING FENCE
— OE	EXISTING OVERHEAD ELECTRIC
— UE	EXISTING UNDERGROUND ELECTRIC
— W	EXISTING UNDERGROUND WATER LINE
—	EXISTING GUY WIRE
---	EXISTING WETLAND LIMIT (APPROXIMATE)
85	EXISTING CONTOUR (AS OF 6/12/08 SURVEY)
85	TOP OF INTERMEDIATE COVER
---	EXISTING SIDEWALL GEOMEMBRANE LIMITS
▨	EXISTING 40 MIL TEXTURED LLDPE GEOMEMBRANE
---	EXISTING LEACHATE COLLECTION LINE
⋈ LE-45	EXISTING SIDEWALL GEOMEMBRANE AND PHASE II SECTION I GEOMEMBRANE ANCHOR TURNDOWN POINTS

- NOTES:**
- EXISTING GRADES SHOWN IN CLOSURE AREA WILL REQUIRE REGRADING IN PLACES TO ACHIEVE DESIGN GRADES, ESPECIALLY ON THE LANDFILL TOP AND SOUTHERN SIDE SLOPES. SEE SECTIONS, DRAWING NO. 9.
 - PROPOSED GRADES SHOWN ARE TOP OF INTERMEDIATE COVER APPROXIMATELY 18 INCHES ABOVE TOP OF WASTE.
 - LIMITS OF 40 MIL TEXTURED LLDPE GEOMEMBRANE INTERMEDIATE COVER THICKNESS IS APPROXIMATELY 12 INCHES.
 - LIMITS OF 60 MIL TEXTURED HDPE GEOMEMBRANE INTERMEDIATE COVER THICKNESS IS APPROXIMATELY 24 INCHES.
 - TYPICAL SOUTH SIDESLOPE BERM FINAL GRADES NOT SHOWN FOR CLARITY, CENTERLINE OF BERM INDICATED. REFER TO DETAIL 1 ON SHEET 12.

BY: SRP	DESCRIPTION: TOP OF INTERMEDIATE COVER SITE PLAN
DATE: 07/13/09	REVISED PER FDEP RAI NO. 1
REV: 1	DATE: 07/13/09
PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS	
CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	
CADD FILE: 993317GRADING	DATE: APRIL 2009
SCALE: AS SHOWN	DRAWING NO. 6 of 16
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION JUL 13 2009 SOUTHWEST DISTRICT TAMPA	



LEGEND

- +101 HORIZONTAL AND VERTICAL CONTROL POINT AND IDENTIFICATION NUMBER (SEE DRAWING NO. 6b FOR NORTHING AND EASTING COORDINATES AND ELEVATIONS.)
- VERTICAL GRADE BREAK/TRANSITION LINE
- - - EXISTING PHASE I EDGE OF LINER

NOTES:

1. PERIMETER GRADING CONTROL POINT NUMBERS 1 THROUGH 114 ARE APPROXIMATE LOCATIONS WHERE THE NEW PHASE I CLOSURE LINER TIES TO THE EXISTING LINER SYSTEM. HORIZONTAL AND VERTICAL LINER TIE-IN LOCATIONS MAY VARY BASED ON ACTUAL EXISTING LINER SYSTEM LOCATIONS DETERMINED AT THE TIME OF CONSTRUCTION.
2. GRADING CONTROL POINT NUMBERS 682 THROUGH 691 ARE APPROXIMATE CENTERLINE LOCATIONS OF THE TEMPORARY STORMWATER FLUMES. THESE HAVE BEEN PROVIDED FOR APPROXIMATE HORIZONTAL LOCATIONS ONLY. HORIZONTAL AND VERTICAL CONSTRUCTION OF THE FLUMES TO BE DETERMINED IN THE FIELD AND BASED UPON DETAIL 4, DRAWING NUMBER 13.

DRAWING NO. **TOP OF INTERMEDIATE COVER GRADING CONTROL POINTS SITE PLAN**

PROJECT TITLE **HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS**

CLIENT **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4011 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 871-0080 FAX 813 823-6757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 0000482
 PROJ. NO. 08199033.17 DIV. BY SDA CHK. BY CEH
 DES. BY SRF S/A RW BY SRF APP. BY CEH

CADD FILE: 993317GRAD-CNTRL
 DATE: APRIL 2009
 SCALE: AS SHOWN
 DRAWING NO.

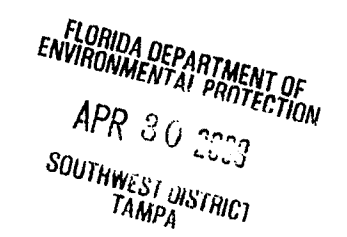


Table with 5 columns: POINT NUMBER, NORTHING, EASTING, ELEVATION. Contains 115 rows of data for the TOP OF INTERMEDIATE COVER GRADING CONTROL TABLE.

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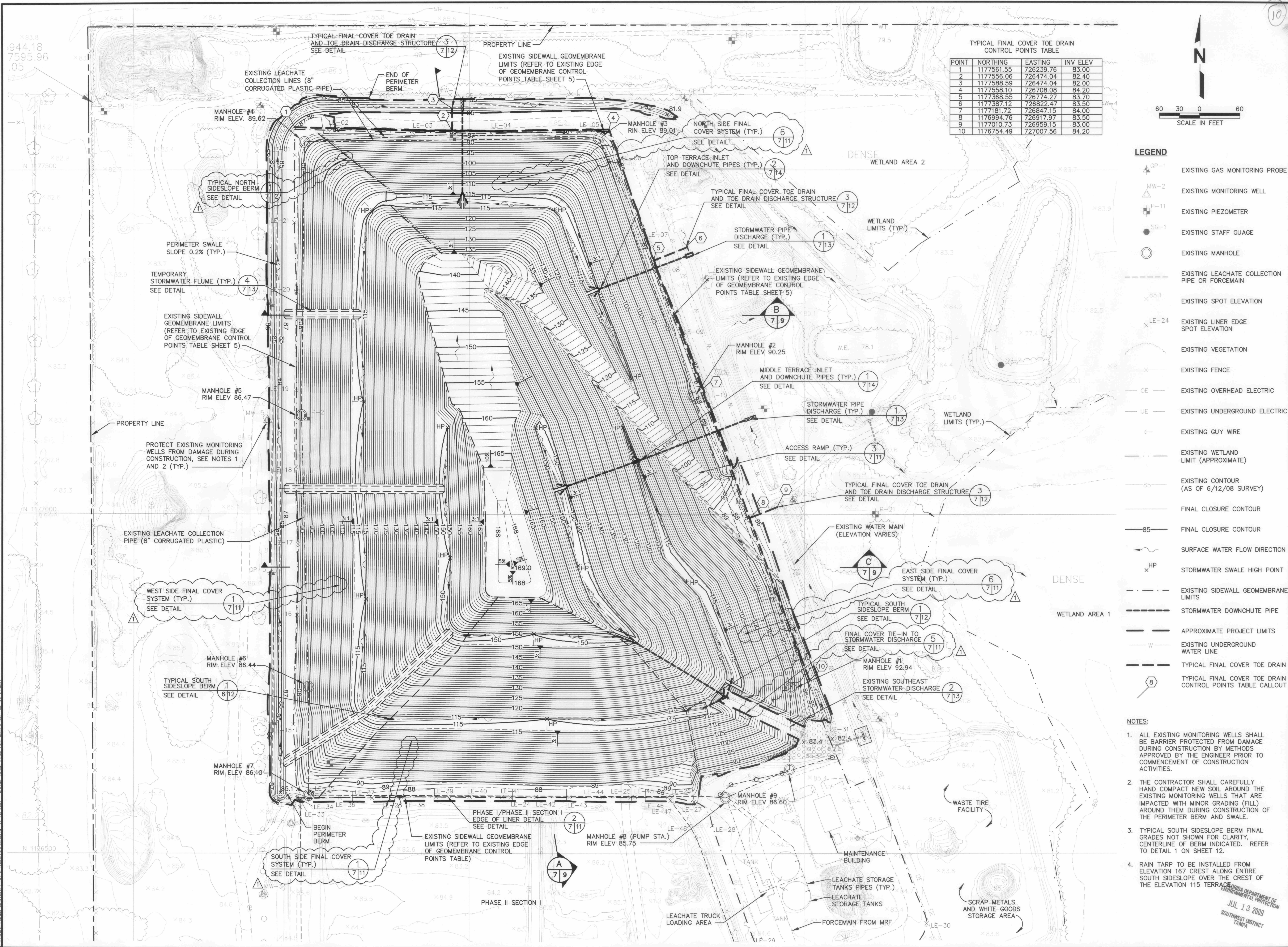
Table with 5 columns: POINT NUMBER, NORTHING, EASTING, ELEVATION. Contains 115 rows of data for the TOP OF INTERMEDIATE COVER GRADING CONTROL TABLE.

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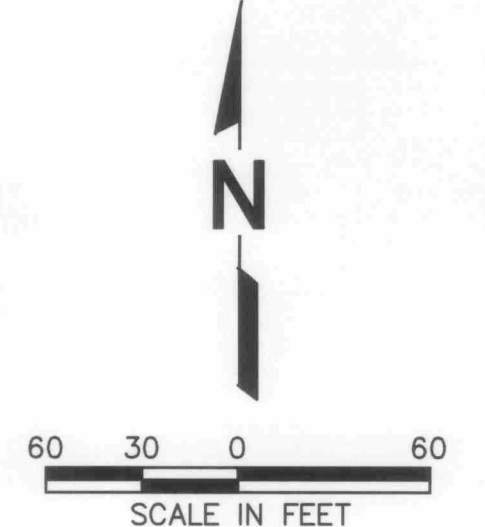
Table with 5 columns: POINT NUMBER, NORTHING, EASTING, ELEVATION. Contains 115 rows of data for the TOP OF INTERMEDIATE COVER GRADING CONTROL TABLE.

Professional Engineer Seal for Shane R. Fischer, P.E. License No. 58026. Includes project title 'HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS', drawing title 'TOP OF INTERMEDIATE COVER GRADING CONTROL POINTS TABLE', and client information 'SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS'.



TYPICAL FINAL COVER TOE DRAIN CONTROL POINTS TABLE

POINT	NORTHING	EASTING	INV ELEV
1	1177561.55	726239.76	83.00
2	1177556.06	726474.04	82.40
3	1177588.59	726474.04	82.00
4	1177558.10	726708.08	84.20
5	1177368.55	726774.27	83.70
6	1177387.12	726822.47	83.50
7	1177181.72	726847.15	84.00
8	1176994.76	726917.97	83.50
9	1177010.73	726959.15	83.00
10	1176754.49	727007.56	84.20



- LEGEND**
- GP-1 EXISTING GAS MONITORING PROBE
 - MW-2 EXISTING MONITORING WELL
 - P-11 EXISTING PIEZOMETER
 - SG-1 EXISTING STAFF GAUGE
 - EXISTING MANHOLE
 - - - EXISTING LEACHATE COLLECTION PIPE OR FORCEMAIN
 - x 85.1 EXISTING SPOT ELEVATION
 - x 82.4 EXISTING LINER EDGE SPOT ELEVATION
 - EXISTING VEGETATION
 - - - EXISTING FENCE
 - OE EXISTING OVERHEAD ELECTRIC
 - UE EXISTING UNDERGROUND ELECTRIC
 - ← EXISTING GUY WIRE
 - - - EXISTING WETLAND LIMIT (APPROXIMATE)
 - 85 EXISTING CONTOUR (AS OF 6/12/08 SURVEY)
 - 85 FINAL CLOSURE CONTOUR
 - 85 FINAL CLOSURE CONTOUR
 - SURFACE WATER FLOW DIRECTION
 - x HP STORMWATER SWALE HIGH POINT
 - - - EXISTING SIDEWALL GEOMEMBRANE LIMITS
 - - - STORMWATER DOWNCHUTE PIPE
 - - - APPROXIMATE PROJECT LIMITS
 - - - EXISTING UNDERGROUND WATER LINE
 - - - TYPICAL FINAL COVER TOE DRAIN
 - TYPICAL FINAL COVER TOE DRAIN CONTROL POINTS TABLE CALLOUT

- NOTES:**
- ALL EXISTING MONITORING WELLS SHALL BE BARRIER PROTECTED FROM DAMAGE DURING CONSTRUCTION BY METHODS APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
 - THE CONTRACTOR SHALL CAREFULLY HAND COMPACT NEW SOIL AROUND THE EXISTING MONITORING WELLS THAT ARE IMPACTED WITH MINOR GRADING (FILL) AROUND THEM DURING CONSTRUCTION OF THE PERIMETER BERM AND SWALE.
 - TYPICAL SOUTH SIDESLOPE BERM FINAL GRADES NOT SHOWN FOR CLARITY, CENTERLINE OF BERM INDICATED. REFER TO DETAIL 1 ON SHEET 12.
 - RAIN TARP TO BE INSTALLED FROM ELEVATION 167 CREST ALONG ENTIRE SOUTH SIDESLOPE OVER THE CREST OF THE ELEVATION 115 TERRACE.

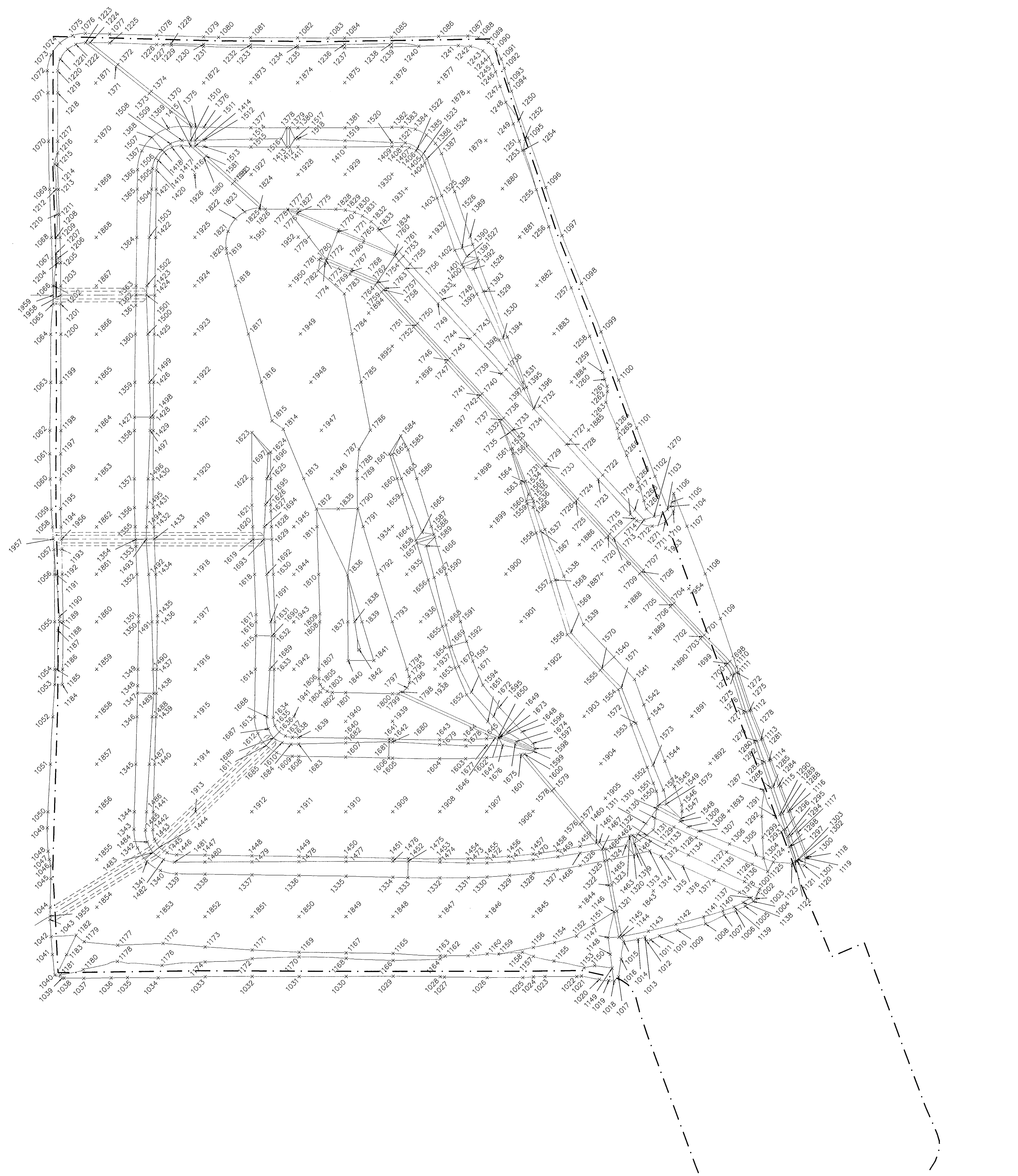
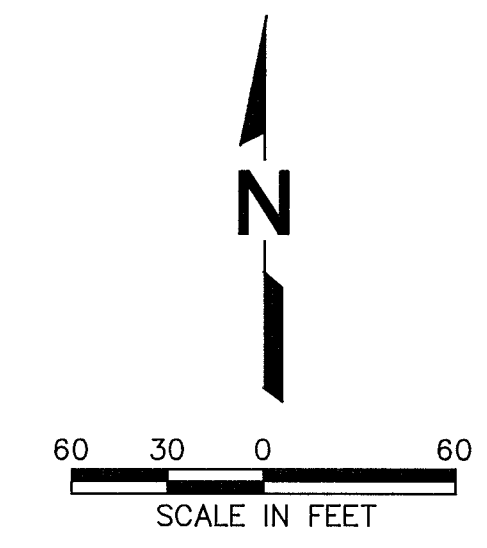
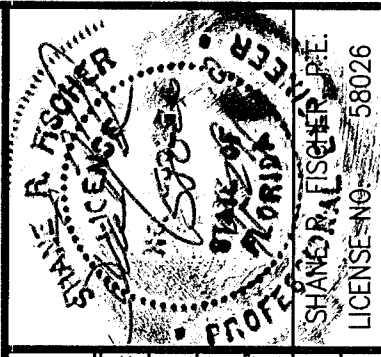
DRAWING TITLE: **FINAL CLOSURE SITE PLAN.**
 PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS**

CLIENT: **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
 813 821-0880 FAX 813 823-6757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
 DWN. BY: SDA /A/ RW BY: SRF
 CHK. BY: SDA /A/ RW BY: SRF
 APP. BY: CEH

CADD FILE: 993317GRADING
 DATE: APRIL 2009
 SCALE: AS SHOWN
 DRAWING NO. **7** of 16

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 JUL 13 2009
 SOUTHWEST DISTRICT TAMPA



LEGEND

+1001 HORIZONTAL AND VERTICAL CONTROL POINT AND IDENTIFICATION NUMBER (SEE DRAWING NO. 7b AND 7c FOR NORTHING AND EASTING COORDINATES AND ELEVATIONS.)

— VERTICAL GRADE BREAK/TRANSITION LINE

- - - EXISTING PHASE I EDGE OF LINER

NOTES:

- PERIMETER GRADING CONTROL POINT NUMBERS 1001 THROUGH 1136 ARE APPROXIMATE LOCATIONS WHERE THE NEW PHASE I TOP OF FINAL CLOSURE TIES TO EXISTING GRADE. IN ORDER TO MAINTAIN SET DESIGN SLOPES, ACTUAL HORIZONTAL AND VERTICAL TIE-IN LOCATIONS TO EXISTING GRADE MAY VARY BASED ON EXISTING GRADE CONDITIONS AT THE TIME OF CONSTRUCTION.
- GRADING CONTROL POINT NUMBERS 1955 THROUGH 1959 ARE APPROXIMATE CENTERLINE LOCATIONS OF THE TEMPORARY STORMWATER FLUMES. THESE HAVE BEEN PROVIDED FOR APPROXIMATE HORIZONTAL LOCATION ONLY. HORIZONTAL AND VERTICAL CONSTRUCTION OF THE FLUMES TO BE DETERMINED IN THE FIELD AND BASED UPON DETAIL 4, DRAWING NUMBER 13.
- GRADING CONTROL POINT NUMBERS 1354, 1362, 1433, 1444, 1493, 1501, 1611, 1619, 1686, AND 1693 ARE APPROXIMATE CENTERLINE LOCATIONS OF THE TEMPORARY STORMWATER FLUMES. ELEVATIONS OF THESE POINTS REPRESENT TERRACE ELEVATIONS PRIOR TO CONSTRUCTION OF THE FLUMES. HORIZONTAL AND VERTICAL CONSTRUCTION OF THE FLUMES AT THESE POINTS TO BE DETERMINED IN THE FIELD AND BASED UPON DETAIL 4, DRAWING NUMBER 13.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 APR 30 2009
 SOUTHWEST DISTRICT TAMPA

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

DRAWING TITLE
 TOP OF FINAL CLOSURE GRADING CONTROL POINTS SITE PLAN

PROJECT TITLE
 HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

CLIENT
 HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 661-0880 FAX 813 663-9157
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.17
 DWN. BY: SDA
 CHK. BY: CEH
 O/A BY: BJC
 APP. BY: CEH
 SRF

CADD FILE:
 99.3317GRAD-CNTRL

DATE:
 APRIL 2009

SCALE:
 AS SHOWN

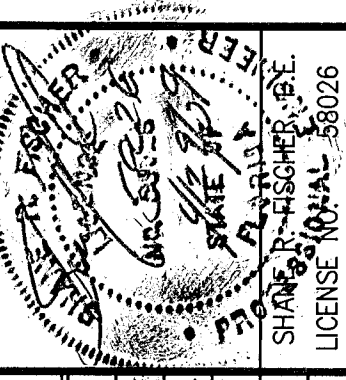
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POINT NUMBER	NORTHING	EASTING	ELEVATION
1001	1176668.17	726991.08	85.57
1002	1176664.54	726989.69	84.99
1003	1176658.04	726987.01	84.00
1004	1176655.05	726984.11	83.95
1005	1176650.09	726975.42	84.02
1006	1176645.08	726965.35	84.00
1007	1176640.76	726952.97	84.02
1008	1176631.62	726933.17	85.63
1009	1176625.12	726903.46	86.10
1010	1176619.13	726884.15	85.67
1011	1176614.90	726874.87	85.00
1012	1176613.94	726870.44	85.00
1013	1176617.92	726868.82	85.83
1014	1176615.49	726861.44	86.68
1015	1176613.23	726846.04	86.36
1016	1176594.79	726843.58	86.20
1017	1176576.39	726840.57	85.98
1018	1176571.95	726835.98	87.47
1019	1176572.32	726830.22	87.00
1020	1176573.66	726820.28	87.70
1021	1176577.22	726801.20	88.00
1022	1176576.64	726796.13	88.00
1023	1176576.80	726782.30	88.00
1024	1176576.33	726750.00	88.53
1025	1176575.68	726738.71	89.16
1026	1176575.67	726700.00	89.00
1027	1176576.31	726654.48	88.59
1028	1176576.78	726650.00	88.14
1029	1176577.29	726600.01	88.00
1030	1176577.10	726550.00	88.09
1031	1176577.01	726500.00	88.19
1032	1176577.07	726450.00	88.04
1033	1176576.83	726400.00	87.77
1034	1176575.68	726350.00	88.10
1035	1176575.98	726313.38	87.81
1036	1176575.62	726300.00	87.96
1037	1176575.15	726270.93	87.63
1038	1176575.42	726250.00	86.09
1039	1176575.40	726247.92	85.92
1040	1176578.59	726240.13	86.00
1041	1176600.00	726237.61	86.25
1042	1176618.89	726236.26	85.87
1043	1176636.89	726235.08	85.53
1044	1176650.00	726235.37	85.35
1045	1176680.12	726236.10	84.86
1046	1176693.33	726235.93	84.68
1047	1176700.02	726234.42	84.75
1048	1176708.75	726233.11	84.87
1049	1176733.22	726232.28	85.15
1050	1176750.00	726232.93	85.20
1051	1176800.00	726235.59	85.60
1052	1176850.00	726238.09	85.94
1053	1176884.08	726240.17	86.44
1054	1176900.00	726240.15	86.66
1055	1176950.00	726240.39	87.04
1056	1177000.00	726239.80	86.79
1057	1177026.00	726239.34	86.71
1058	1177050.00	726237.94	86.56
1059	1177068.31	726236.57	86.34
1060	1177100.00	726235.69	86.03
1061	1177126.15	726235.11	85.82
1062	1177150.15	726235.23	85.85
1063	1177200.00	726235.98	85.97
1064	1177250.00	726236.13	85.75
1065	1177281.36	726238.78	86.47
1066	1177300.00	726238.61	86.54
1067	1177328.70	726237.79	87.00
1068	1177350.00	726237.30	86.47
1069	1177400.00	726235.45	85.93
1070	1177450.00	726234.49	85.82
1071	1177500.00	726234.05	86.36
1072	1177522.88	726233.49	86.99
1073	1177539.19	726237.71	86.46
1074	1177551.56	726247.13	86.05
1075	1177559.32	726260.32	85.65
1076	1177561.69	726274.16	85.45
1077	1177560.87	726300.00	85.51
1078	1177559.47	726350.00	85.76
1079	1177557.73	726400.00	85.69
1080	1177557.19	726415.75	85.67
1081	1177556.82	726450.00	85.61
1082	1177556.54	726500.00	85.80
1083	1177556.12	726532.38	85.67
1084	1177556.30	726550.00	85.57
1085	1177557.00	726600.00	85.46
1086	1177557.81	726650.00	85.46
1087	1177558.21	726680.99	85.44
1088	1177556.56	726692.42	85.40
1089	1177551.48	726703.03	85.38
1090	1177544.47	726710.81	85.41
1091	1177534.14	726717.35	85.72
1092	1177524.47	726720.68	85.64
1093	1177508.97	726725.11	84.71
1094	1177500.88	726728.28	85.00
1095	1177452.50	726745.41	85.03
1096	1177401.05	726764.45	85.89
1097	1177351.31	726781.62	85.99
1098	1177302.00	726802.50	86.00
1099	1177251.74	726823.28	86.00
1100	1177201.76	726841.89	86.00

POINT NUMBER	NORTHING	EASTING	ELEVATION
1101	1177152.02	726860.96	86.29
1102	1177102.01	726880.35	86.31
1103	1177067.35	726893.66	86.19
1104	1177070.52	726896.59	86.00
1105	1177075.35	726898.61	85.57
1106	1177084.12	726900.23	85.30
1107	1177050.00	726914.39	85.45
1108	1177000.00	726933.86	85.21
1109	1176952.65	726950.00	85.40
1110	1176901.72	726967.25	85.07
1111	1176896.25	726969.10	85.05
1112	1176856.26	726982.64	85.02
1113	1176825.90	726994.96	85.11
1114	1176804.00	727003.55	85.17
1115	1176775.77	727014.01	85.21
1116	1176750.00	727023.60	85.23
1117	1176727.62	727032.05	85.16
1118	1176701.29	727041.77	85.14
1119	1176700.45	727039.78	85.06
1120	1176692.56	727038.32	84.89
1121	1176696.84	727031.51	82.84
1122	1176696.65	727028.61	83.02
1123	1176694.83	727025.46	83.14
1124	1176696.43	727005.64	83.55
1125	1176686.25	726999.63	84.05
1126	1176689.08	726983.08	88.84
1127	1176706.90	726955.96	95.98
1128	1176722.30	726923.42	106.27
1129	1176733.38	726900.00	110.00
1130	1176742.78	726880.00	111.00
1131	1176730.40	726877.95	111.00
1132	1176724.96	726871.29	111.00
1133	1176715.20	726891.65	110.33
1134	1176704.08	726915.15	106.56
1135	1176688.69	726947.69	97.11
1136	1176675.86	726974.81	90.29
1137	1176659.02	726981.88	88.19
1138	1176654.02	726973.27	88.19
1139	1176649.22	726963.57	88.19
1140	1176645.03	726951.61	88.19
1141	1176639.03	726931.15	88.19
1142	1176631.16	726901.74	88.19
1143	1176624.13	726872.32	88.19
1144	1176618.47	726844.08	88.19
1145	1176617.90	726841.14	88.72
1146	1176644.64	726836.04	97.78
1147	1176617.52	726829.65	93.08
1148	1176600.00	726831.93	89.75
1149	1176585.48	726833.81	86.99
1150	1176588.08	726815.20	86.00
1151	1176631.09	726814.46	94.71
1152	1176619.23	726796.00	91.96
1153	1176585.80	726803.97	88.00
1154	1176612.25	726772.52	90.84
1155	1176592.92	726771.94	88.00
1156	1176607.20	726750.00	90.03
1157	1176597.88	726750.00	88.46
1158	1176602.24	726738.30	89.15
1159	1176600.42	726712.60	88.74
1160	1176600.50	726700.00	89.00
1161	1176598.58	726679.68	88.62
1162	1176598.38	726655.45	88.56
1163	1176598.54	726650.00	88.62
1164	1176595.41	726650.00	88.09
1165	1176601.06	726600.00	89.21
1166	1176593.79	726600.00	88.00
1167	1176610.78	726550.00	89.06
1168	1176595.96	726550.00	88.09
1169	1176602.34	726550.00	88.99
1170	1176597.55	726500.00	88.19
1171	1176604.73	726450.00	89.55
1172	1176595.65	726450.00	88.03
1173	1176608.00	726400.00	90.41
1174	1176592.30	726400.00	87.77
1175	1176611.70	726355.16	91.44
1176	1176588.70	726354.11	88.12
1177	1176609.80	726307.06	90.57
1178	1176592.87	726306.64	88.00
1179	1176613.49	726271.39	91.69
1180	1176584.34	726270.16	87.52
1181	1176578.76	726245.94	86.00
1182	1176620.38	726262.92	92.93
1183	1176600.00	726252.76	89.33
1184	1176883.94	726248.58	89.24
1185	1176900.00	726242.05	86.97
1186	1176900.00	726248.80	89.23
1187	1176940.75	726243.99	87.40
1188	1176950.00	726245.74	87.93
1189	1176950.00	726249.47	89.18
1190	1176955.65	726245.90	87.96
1191	1177000.00	726241.44	87.06
1192	1177000.00	726248.42	89.38
1193	1177026.34	726247.76	89.52
1194	1177050.00	726247.16	89.62
1195	1177069.07	726246.68	89.71
1196	1177100.00	726246.81	89.74
1197	1177126.00	726246.92	89.76
1198	1177150.00	726247.02	89.78
1199	1177200.00	726247.16	89.70
1200	1177250.00	726247.18	89.43

POINT NUMBER	NORTHING	EASTING	ELEVATION
1201	1177281.22	726247.20	89.27
1202	1177300.00	726240.02	86.78
1203	1177300.00	726247.21	89.16
1204	1177323.75	726244.27	88.07
1205	1177324.00	726247.21	89.03
1206	1177328.76	726244.50	88.12
1207	1177333.70	726242.34	87.38
1208	1177350.00	726242.35	87.31
1209	1177350.00	726246.37	88.63
1210	1177373.93	726243.65	87.63
1211	1177373.97	726245.59	88.27
1212	1177400.00	726242.38	87.09
1213	1177400.00	726244.75	87.87
1214	1177426.26	726240.87	86.40
1215	1177426.26	726243.98	87.49
1216	1177437.85	726244.05	87.44
1217	1177450.00	726244.12	87.40
1218	1177500.00	726244.42	87.21
1219	1177522.65	726244.56	87.14
1220	1177534.82	726247.46	87.25
1221	1177545.01	726255.33	87.35
1222	1177550.00	726263.95	87.44
1223	1177551.89	726274.30	87.53
1224	1177551.98	726279.15	87.04
1225	1177551.66	726300.00	87.16
1226	1177549.74	726350.00	87.40
1227	1177549.47	726356.71	87.43
1228	1177550.93	726365.54	87.05
1229	1177549.10		



TOP OF FINAL CLOSURE GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
1601	1176809.67	726737.47	150.91
1602	1176806.55	726700.00	150.91
1603	1176805.44	726677.70	150.91
1604	1176805.43	726650.00	150.91
1605	1176806.21	726600.00	150.91
1606	1176806.31	726595.93	150.91
1607	1176807.41	726550.00	150.91
1608	1176808.13	726500.00	150.91
1609	1176808.23	726493.00	150.91
1610	1176811.98	726476.43	150.91
1611	1176819.48	726465.48	150.91
1612	1176832.28	726456.48	150.91
1613	1176849.83	726453.03	150.91
1614	1176900.00	726453.87	150.91
1615	1176935.47	726454.45	150.91
1616	1176950.00	726454.68	150.91
1617	1176957.68	726454.81	150.91
1618	1177000.00	726453.14	150.91
1619	1177036.91	726451.68	150.91
1620	1177050.00	726451.16	150.91
1621	1177072.33	726450.28	150.91
1622	1177100.00	726450.33	150.91
1623	1177147.77	726450.42	150.91
1624	1177127.50	726470.38	150.91
1625	1177100.00	726470.33	150.91
1626	1177072.70	726470.28	150.91
1627	1177066.29	726470.53	150.91
1628	1177050.00	726471.18	150.91
1629	1177036.94	726471.69	150.91
1630	1177000.00	726473.15	150.91
1631	1176950.00	726474.69	150.91
1632	1176935.14	726474.45	150.91
1633	1176900.00	726473.87	150.91
1634	1176849.38	726473.03	150.91
1635	1176840.88	726474.55	150.91
1636	1176833.90	726479.31	150.91
1637	1176829.70	726485.86	150.91
1638	1176828.22	726493.34	150.91
1639	1176828.13	726500.00	150.91
1640	1176827.41	726500.00	150.91
1641	1176826.31	726596.40	150.91
1642	1176826.22	726600.00	150.91
1643	1176825.43	726650.00	150.91
1644	1176825.44	726677.29	150.91
1645	1176826.59	726700.00	150.91
1646	1176827.24	726709.12	150.91
1647	1176827.56	726713.25	150.41
1648	1176827.63	726714.19	150.41
1649	1176828.30	726715.18	150.41
1650	1176830.33	726714.41	150.41
1651	1176844.34	726701.24	150.41
1652	1176872.76	726678.90	150.41
1653	1176901.30	726666.65	150.41
1654	1176923.17	726659.86	150.41
1655	1176944.97	726653.09	150.41
1656	1176993.90	726637.90	150.41
1657	1177032.81	726625.82	150.41
1658	1177035.67	726624.93	150.41
1659	1177083.28	726610.15	150.41
1660	1177100.00	726604.96	150.41
1661	1177125.31	726596.61	150.41
1662	1177125.06	726599.72	149.50
1663	1177100.00	726609.54	148.88
1664	1177050.00	726620.48	150.41
1665	1177043.83	726631.54	147.50
1666	1177029.83	726635.89	147.50
1667	1176996.48	726644.26	148.13
1668	1176946.37	726656.84	149.08
1669	1176923.98	726662.47	149.50
1670	1176902.45	726670.52	149.08
1671	1176875.55	726683.97	148.54
1672	1176850.00	726707.53	147.91
1673	1176833.29	726722.94	147.50
1674	1176823.47	726732.23	150.41
1675	1176820.67	726731.16	150.41
1676	1176819.55	726717.83	147.50
1677	1176819.25	726700.00	147.87
1678	1176818.87	726678.16	148.32
1679	1176820.49	726650.00	148.90
1680	1176823.37	726600.00	149.92
1681	1176823.58	726596.34	150.00
1682	1176822.37	726550.00	149.26
1683	1176821.07	726500.00	148.45
1684	1176820.86	726491.77	148.32
1685	1176822.63	726482.35	148.17
1686	1176827.60	726473.26	148.00
1687	1176837.16	726467.80	148.20
1688	1176850.00	726466.18	148.44
1689	1176900.00	726469.43	149.36
1690	1176935.19	726471.72	150.00
1691	1176950.00	726470.44	149.71
1692	1177000.00	726466.13	148.73
1693	1177036.93	726462.96	148.00
1694	1177050.00	726463.64	148.29
1695	1177072.78	726464.84	148.80
1696	1177100.00	726466.27	149.41
1697	1177126.37	726467.65	150.00
1698	1176907.50	726960.00	66.18
1699	1176905.29	726957.83	65.13
1700	1176903.34	726955.55	65.13

TOP OF FINAL CLOSURE GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
1701	1176935.19	726932.78	89.42
1702	1176933.50	726930.97	88.59
1703	1176931.45	726928.79	88.59
1704	1176969.12	726900.89	89.42
1705	1176967.42	726899.09	88.59
1706	1176965.36	726896.91	88.59
1707	1177004.04	726868.07	89.42
1708	1177002.35	726866.27	88.59
1709	1177000.29	726864.08	88.59
1710	1177065.73	726900.00	88.18
1711	1177054.79	726891.43	90.34
1712	1177050.09	726877.41	92.63
1713	1177056.70	726868.63	92.70
1714	1177055.88	726860.78	95.38
1715	1177057.93	726858.59	95.84
1716	1177037.44	726836.68	95.25
1717	1177067.00	726858.94	94.50
1718	1177062.57	726854.24	96.65
1719	1177041.99	726832.41	96.05
1720	1177040.29	726830.61	95.22
1721	1177038.23	726828.43	95.22
1722	1177103.44	726824.70	100.86
1723	1177099.00	726819.99	103.02
1724	1177078.42	726798.17	102.41
1725	1177076.72	726796.37	101.59
1726	1177074.66	726794.18	101.59
1727	1177139.87	726790.46	107.23
1728	1177135.44	726785.75	109.38
1729	1177114.85	726763.92	108.78
1730	1177113.16	726762.12	107.95
1731	1177111.10	726759.94	107.95
1732	1177174.74	726757.68	113.10
1733	1177151.29	726729.68	114.77
1734	1177149.59	726727.88	113.95
1735	1177147.53	726725.70	113.95
1736	1177162.43	726719.21	116.23
1737	1177160.79	726717.35	115.41
1738	1177212.74	726721.97	117.99
1739	1177208.30	726717.27	120.15
1740	1177187.72	726695.44	119.54
1741	1177186.02	726693.64	118.72
1742	1177183.97	726691.46	118.72
1743	1177249.18	726687.73	122.76
1744	1177244.74	726683.02	124.92
1745	1177224.16	726661.20	124.31
1746	1177222.46	726659.40	123.49
1747	1177220.40	726657.21	123.49
1748	1177285.61	726653.49	127.53
1749	1177281.17	726648.78	129.69
1750	1177260.59	726626.95	129.09
1751	1177258.89	726625.15	128.26
1752	1177256.83	726622.97	128.26
1753	1177330.03	726611.74	133.35
1754	1177325.45	726607.17	135.49
1755	1177322.04	726619.24	132.31
1756	1177317.61	726614.54	134.46
1757	1177297.02	726592.71	133.86
1758	1177295.33	726590.91	133.03
1759	1177293.27	726588.73	133.03
1760	1177332.37	726602.59	135.80
1761	1177330.12	726602.77	135.38
1762	1177304.95	726585.26	134.78
1763	1177302.88	726583.81	133.95
1764	1177300.36	726582.06	133.95
1765	1177346.18	726569.87	139.20
1766	1177344.35	726569.08	139.20
1767	1177316.76	726557.29	138.61
1768	1177314.49	726556.31	137.79
1769	1177311.73	726555.13	137.79
1770	1177357.50	726543.08	142.82
1771	1177355.65	726542.30	142.82
1772	1177327.99	726530.68	142.21
1773	1177325.71	726529.72	141.38
1774	1177322.95	726528.55	141.38
1775	1177375.74	726499.65	138.10
1776	1177373.90	726498.87	138.10
1777	1177378.94	726488.99	136.94
1778	1177378.05	726488.99	137.03
1779	1177350.00	726511.34	139.83
1780	1177328.16	726523.91	142.01
1781	1177326.84	726521.92	142.15
1782	1177315.28	726521.25	143.30
1783	1177291.34	726549.05	145.41
1784	1177250.00	726557.10	149.41
1785	1177200.00	726566.80	154.27
1786	1177150.00	726576.51	159.09
1787	1177130.60	726564.35	160.96
1788	1177108.38	726562.46	163.12
1789	1177100.00	726562.46	163.94
1790	1177068.63	726562.98	166.88
1791	1177050.00	726568.76	166.88
1792	1177000.00	726584.29	166.88
1793	1176950.00	726599.81	166.88
1794	1176900.00	726615.33	166.88
1795	1176892.32	726617.72	166.88
1796	1176885.97	726618.03	166.88
1797	1176880.38	726615.38	166.88
1798	1176876.09	726608.77	166.88
1799	1176874.02	726605.84	166.88
1800	1176874.13	726600.00	166.88

TOP OF FINAL CLOSURE GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
1801	1176875.32	726550.00	166.88
1802	1176875.53	726535.82	166.88
1803	1176876.74	726530.41	166.88
1804	1176879.81	726525.89	166.88
1805	1176883.88	726523.03	166.88
1806	1176890.23	726521.62	166.88
1807	1176900.00	726521.78	166.88
1808	1176950.00	726522.59	166.88
1809	1176958.47	726522.73	166.88
1810	1177000.00	726521.33	166.88
1811	1177050.00	726519.64	166.88
1812	1177068.21	726519.03	166.88
1813	1177100.00	726505.54	163.79
1814	1177151.28	726483.79	158.81
1815	1177159.87	726471.78	157.92
1816	1177200.00	726460.56	154.13
1817	1177250.00	726446.88	149.30
1818	1177300.00	726433.24	144.48
1819	1177333.47	726424.09	141.26
1820	1177338.23	726423.32	140



TOP OF PERIMTER SWALE GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
2001	1176581.29	726243.43	86.02
2002	1176578.59	726240.13	86.00
2003	1176570.70	726235.61	85.98
2004	1176572.41	726224.75	85.68
2005	1176573.82	726215.78	85.80
2006	1176576.37	726209.51	85.91
2007	1176581.31	726204.93	86.00
2008	1176588.83	726202.62	86.00
2009	1176588.83	726207.45	87.61
2010	1176588.84	726209.45	87.61
2011	1176588.88	726216.95	85.11
2012	1176588.90	726218.95	85.11
2013	1176588.91	726220.95	85.11
2014	1176588.94	726226.62	87.00
2015	1176588.94	726228.62	87.04
2016	1176588.94	726247.24	87.37
2017	1176583.22	726224.47	87.14
2018	1176581.85	726225.94	87.17
2019	1176580.31	726218.07	87.31
2020	1176578.31	726217.96	87.33
2021	1176582.98	726211.81	87.46
2022	1176581.59	726210.37	87.47
2023	1176586.90	726218.96	85.11
2024	1176600.52	726242.60	87.28
2025	1176620.00	726202.92	86.10
2026	1176620.00	726207.26	87.55
2027	1176620.00	726209.26	87.55
2028	1176620.00	726216.76	85.05
2029	1176620.00	726218.76	85.05
2030	1176620.00	726220.76	85.05
2031	1176620.00	726226.62	87.00
2032	1176620.00	726241.59	87.26
2033	1176635.52	726241.11	87.25
2034	1176650.00	726202.39	85.92
2035	1176650.00	726207.08	87.49
2036	1176650.00	726209.08	87.49
2037	1176650.00	726216.58	84.99
2038	1176650.00	726218.58	84.99
2039	1176650.00	726220.58	84.99
2040	1176650.00	726226.62	87.00
2041	1176650.00	726241.35	87.25
2042	1176695.41	726202.07	85.82
2043	1176695.52	726243.50	87.31
2044	1176700.00	726201.13	85.50
2045	1176700.00	726206.78	87.39
2046	1176700.00	726208.78	87.39
2047	1176700.00	726216.28	84.89
2048	1176700.00	726218.28	84.89
2049	1176700.00	726220.28	84.89
2050	1176700.00	726226.62	87.00
2051	1176700.00	726242.54	87.28
2052	1176705.39	726199.83	85.07
2053	1176715.52	726239.31	87.20
2054	1176725.39	726199.63	85.00
2055	1176735.52	726238.45	87.18
2056	1176750.00	726201.12	85.50
2057	1176750.00	726206.47	87.29
2058	1176750.00	726208.47	87.29
2059	1176750.00	726215.97	84.79
2060	1176750.00	726217.97	84.79
2061	1176750.00	726219.97	84.79
2062	1176750.00	726226.62	87.00
2063	1176750.00	726238.90	87.19
2064	1176770.41	726202.55	85.98
2065	1176800.00	726202.62	86.00
2066	1176800.00	726206.17	87.18
2067	1176800.00	726208.17	87.18
2068	1176800.00	726215.67	84.68
2069	1176800.00	726217.67	84.68
2070	1176800.00	726219.67	84.68
2071	1176800.00	726226.62	87.00
2072	1176800.00	726240.50	87.23
2073	1176850.00	726202.61	86.00
2074	1176850.00	726205.87	87.08
2075	1176850.00	726207.87	87.08
2076	1176850.00	726215.37	84.58
2077	1176850.00	726217.37	84.58
2078	1176850.00	726219.37	84.58
2079	1176850.00	726226.62	87.00
2080	1176850.00	726242.10	87.27
2081	1176870.41	726202.23	85.87
2082	1176885.41	726201.70	85.70
2083	1176900.00	726202.57	85.99
2084	1176900.00	726205.57	86.98
2085	1176900.00	726207.57	86.98
2086	1176900.00	726215.07	84.48
2087	1176900.00	726217.07	84.48
2088	1176900.00	726219.07	84.48
2089	1176900.00	726226.62	87.00
2090	1176900.00	726243.01	87.29
2091	1176940.52	726243.44	87.30
2092	1176945.52	726241.77	87.26
2093	1176950.00	726202.74	86.04
2094	1176950.00	726205.26	86.88
2095	1176950.00	726207.26	86.88
2096	1176950.00	726214.76	84.38
2097	1176950.00	726216.76	84.38
2098	1176950.00	726218.76	84.38
2099	1176950.00	726226.62	87.00
2100	1176950.00	726241.74	87.26

TOP OF PERIMTER SWALE GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
2101	1176955.42	726202.67	86.02
2102	1176963.35	726201.88	85.76
2103	1176980.41	726201.58	85.66
2104	1176980.52	726242.04	87.27
2105	1177000.00	726201.74	85.71
2106	1177000.00	726204.96	86.78
2107	1177000.00	726206.96	86.78
2108	1177000.00	726214.46	84.28
2109	1177000.00	726216.46	84.28
2110	1177000.00	726218.46	84.28
2111	1177000.00	726226.62	87.00
2112	1177000.00	726242.08	87.27
2113	1177015.42	726202.29	85.89
2114	1177050.00	726201.36	85.58
2115	1177050.00	726204.66	86.68
2116	1177050.00	726206.66	86.68
2117	1177050.00	726214.16	84.18
2118	1177050.00	726216.16	84.18
2119	1177050.00	726218.16	84.18
2120	1177050.00	726226.62	87.00
2121	1177050.00	726239.91	87.22
2122	1177075.42	726201.35	85.58
2123	1177100.00	726200.55	85.31
2124	1177100.00	726204.36	86.58
2125	1177100.00	726206.36	86.58
2126	1177100.00	726213.86	84.08
2127	1177100.00	726215.86	84.08
2128	1177100.00	726217.86	84.08
2129	1177100.00	726226.62	87.00
2130	1177100.00	726239.19	87.20
2131	1177150.00	726201.05	85.48
2132	1177150.00	726204.05	86.48
2133	1177150.00	726206.05	86.48
2134	1177150.00	726213.55	83.98
2135	1177150.00	726215.55	83.98
2136	1177150.00	726217.55	83.98
2137	1177150.00	726226.62	87.00
2138	1177150.00	726239.29	87.20
2139	1177165.42	726201.85	85.74
2140	1177180.42	726201.20	85.53
2141	1177190.42	726202.08	85.82
2142	1177200.00	726201.63	85.67
2143	1177200.00	726203.75	86.38
2144	1177200.00	726205.75	86.38
2145	1177200.00	726213.25	83.88
2146	1177200.00	726215.25	83.88
2147	1177200.00	726217.25	83.88
2148	1177200.00	726226.62	87.00
2149	1177210.42	726201.65	85.68
2150	1177220.41	726200.15	85.18
2151	1177250.00	726199.62	85.00
2152	1177250.00	726203.45	86.28
2153	1177250.00	726205.45	86.28
2154	1177250.00	726212.95	83.78
2155	1177250.00	726214.95	83.78
2156	1177250.00	726216.95	83.78
2157	1177250.00	726226.62	87.00
2158	1177250.00	726240.58	87.23
2159	1177300.00	726199.62	85.00
2160	1177300.00	726203.15	86.18
2161	1177300.00	726205.15	86.18
2162	1177300.00	726212.65	83.68
2163	1177300.00	726214.65	83.68
2164	1177300.00	726216.65	83.68
2165	1177300.00	726226.62	87.00
2166	1177300.00	726241.45	87.25
2167	1177310.41	726199.32	84.90
2168	1177320.40	726198.01	84.46
2169	1177315.52	726241.72	87.26
2170	1177325.52	726238.95	87.19
2171	1177335.52	726241.92	87.27
2172	1177350.00	726197.38	84.25
2173	1177350.00	726202.84	86.08
2174	1177350.00	726204.84	86.08
2175	1177350.00	726212.34	83.58
2176	1177350.00	726214.34	83.58
2177	1177350.00	726216.34	83.58
2178	1177350.00	726226.62	87.00
2179	1177350.00	726242.10	87.27
2180	1177400.00	726197.37	84.25
2181	1177400.00	726202.54	85.97
2182	1177400.00	726204.54	85.97
2183	1177400.00	726212.04	83.47
2184	1177400.00	726214.04	83.47
2185	1177400.00	726216.04	83.47
2186	1177400.00	726226.62	87.00
2187	1177400.00	726243.01	87.29
2188	1177450.00	726197.80	84.40
2189	1177450.00	726202.24	85.87
2190	1177450.00	726204.24	85.87
2191	1177450.00	726211.74	83.37
2192	1177450.00	726213.74	83.37
2193	1177450.00	726215.74	83.37
2194	1177450.00	726226.62	87.00
2195	1177450.00	726243.58	87.31
2196	1177500.00	726197.54	84.31
2197	1177500.00	726201.94	85.77
2198	1177500.00	726203.94	85.77
2199	1177500.00	726211.44	83.27
2200	1177500.00	726213.44	83.27

TOP OF PERIMTER SWALE GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
2201	1177500.00	726215.44	83.27
2202	1177500.00	726226.62	87.00
2203	1177500.00	726244.77	87.34
2204	1177523.54	726197.35	84.25
2205	1177523.53	726201.79	85.73
2206	1177523.53	726203.79	85.73
2207	1177523.52	726211.29	83.23
2208	1177523.52	726213.29	83.23
2209	1177523.51	726215.29	83.23
2210	1177523.40	726226.62	87.00
2211	1177523.23	726245.34	87.35
2212	1177538.70	726197.80	83.94
2213	1177529.76	726246.30	87.38
2214	1177555.26	726202.25	83.83
2215	1177553.16	726207.32	85.66
2216	1177552.40	726209.17	85.66
2217	1177549.52	726213.17	83.16
2218	1177548.76	726217.95	83.16
2219	1177547.99	726219.79	83.16
2220	1177543.52	726230.60	87.00
2221	1177535.66	726249.08	87.48
2222	1177567.59	726208.04	83.74
2223	1177571.50	726211.45	84.00
2224	1177574.11	726216.43	84.83
2225	1177579.73	726222.84	85.23
2226	117757		



BY	DESCRIPTION	DATE	REV
SRF <td>REVISED PER FDEP RAI NO. 1 <td>07/13/09 <td>1</td> </td></td>	REVISED PER FDEP RAI NO. 1 <td>07/13/09 <td>1</td> </td>	07/13/09 <td>1</td>	1

DRAWING TITLE
LFG CONTROL SYSTEM SITE PLAN

PROJECT TITLE
**HARDEE COUNTY LANDFILL
PHASE I CLOSURE
CONSTRUCTION DRAWINGS**

CLIENT
**HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3072 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619
PH (813) 621-0880 FAX NO. (813) 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
PROJ. NO. 08199033.17
DATE: 07/13/09
BY: VKF/LEK
CHK: VKF/LEK
APP: B, RJD

CADD FILE:
993317LFG

DATE:
APRIL 2009

SCALE:
1" = 60'

DRAWING NO.
8 of 16

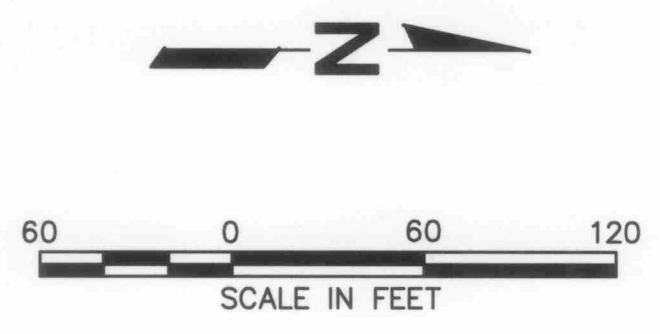
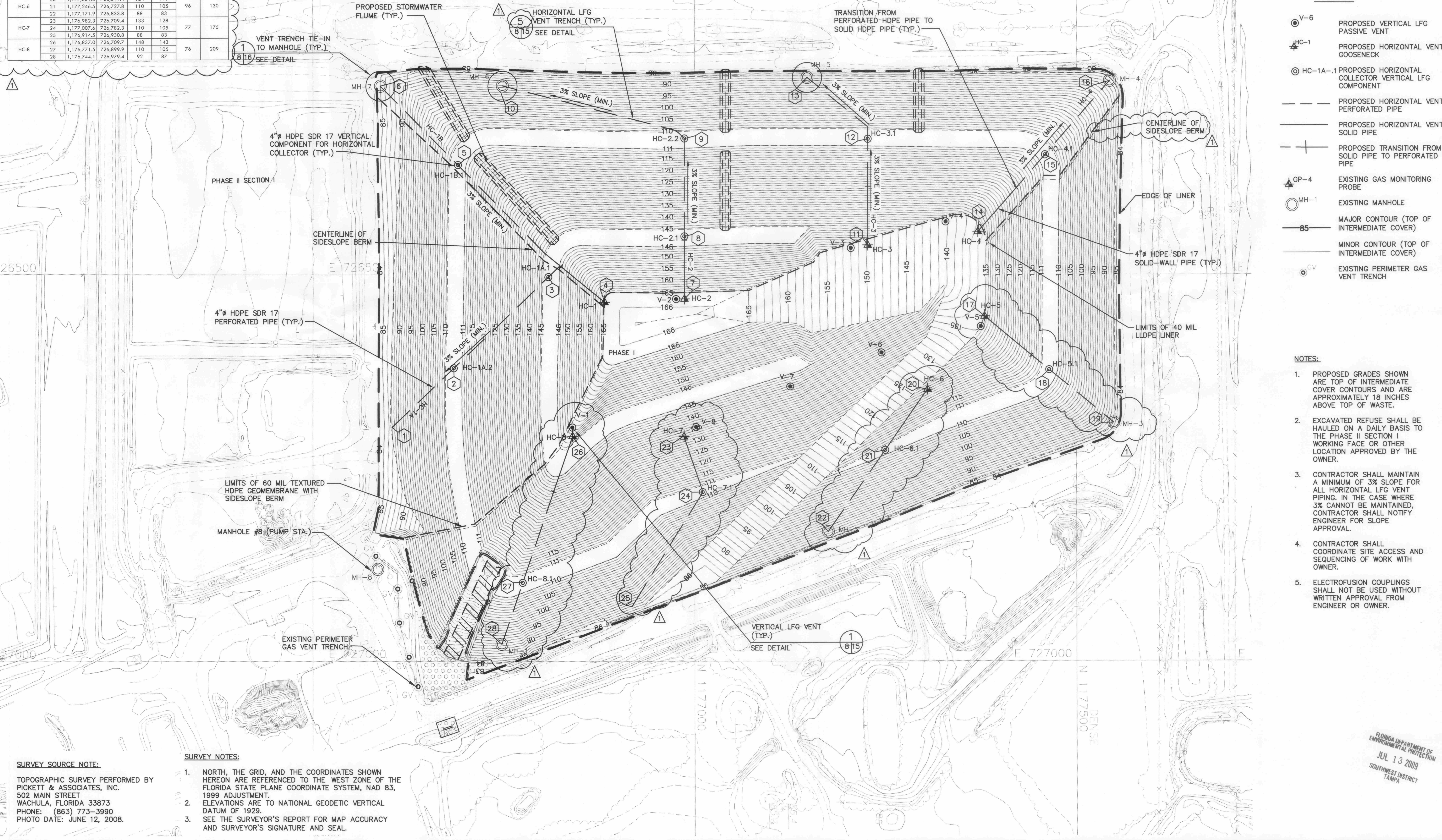
HORIZONTAL LFG TRENCH VENT SCHEDULE

Horizontal Vent ID	Point	Northing (ft)	Easting (ft)	Ground Surface Elevation (ft)	Invert Elevation (ft)	Design Solid Pipe Length (ft)	Design Perforated Pipe Length (ft)
HC-1A	1	1,176,600.5	726,698.3	87	82	0.0	303
	2	1,176,682.3	726,622.9	110	105		
	3	1,176,803.6	726,505.1	145	140		
	4	1,176,878.9	726,336.8	165	160		
HC-1B	5	1,176,686.8	726,361.3	110	105	75	329
	6	1,176,583.3	726,260.5	85	80		
	7	1,176,983.1	726,532.5	165	160		
HC-2	8	1,176,982.1	726,452.8	145	140	75	378
	9	1,176,983.0	726,327.6	110	105		
	10	1,176,245.0	726,240.3	93	88		
HC-3	11	1,177,223.6	726,463.9	150	145	75	178
	12	1,177,222.1	726,328.5	110	105		
	13	1,177,144.2	726,249.9	92	87		
HC-4	14	1,177,367.7	726,446.9	136	131	75	184
	15	1,177,454.3	726,349.1	110	105		
	16	1,177,344.2	726,324.4	145	140		
HC-5	17	1,177,376.6	726,555.0	135	130	80	139
	18	1,177,461.0	726,623.9	110	105		
	19	1,177,545.4	726,692.8	85	80		
HC-6	20	1,177,301.8	726,649.4	124	119	96	130
	21	1,177,246.5	726,727.8	110	105		
	22	1,177,171.9	726,833.8	88	83		
HC-7	23	1,176,982.3	726,709.4	133	128	77	175
	24	1,177,007.6	726,782.3	110	105		
	25	1,176,914.5	726,930.8	88	83		
HC-8	26	1,176,870.0	726,709.7	148	143		
	27	1,176,771.5	726,895.9	110	105	76	209
	28	1,176,744.1	726,979.4	92	87		

VERTICAL LFG VENT SCHEDULE

Vent No.	Northing (ft)	Easting (ft)	Ground Surface Elevation (ft)	Well Depth (ft)	Solid Pipe Length Below Grade (ft)	Solid Pipe Length Above Grade (ft)	Slotted Pipe Length (ft)	Rock Backfill (ft)	Well Type
V-1	1,176,836.9	726,698.5	150	50	20	30	32		Vertical Vent
V-2	1,176,972.5	726,532.8	165	65	20	5	45	47	Vertical Vent
V-3	1,177,201.4	726,468.0	152	52	20	5	32	34	Vertical Vent
V-4	1,177,324.6	726,434.2	140	40	20	5	20	22	Vertical Vent
V-5	1,177,371.7	726,567.9	135	35	20	5	15	17	Vertical Vent
V-6	1,177,241.7	726,601.5	135	35	20	5	15	17	Vertical Vent
V-7	1,177,131.8	726,645.6	140	40	20	5	20	22	Vertical Vent
V-8	1,176,998.6	726,698.3	135	35	20	5	15	17	Vertical Vent
HC-1A.1	1,176,805.6	726,505.1	145	45	--	--	45	46	Vertical Component
HC-1A.2	1,176,682.3	726,622.9	110	10	--	--	10	11	Vertical Component
HC-1B.1	1,176,686.8	726,361.3	110	10	--	--	10	11	Vertical Component
HC-2.1	1,176,982.1	726,452.8	145	45	--	--	45	46	Vertical Component
HC-2.2	1,176,983.0	726,327.6	110	10	--	--	10	11	Vertical Component
HC-3.1	1,177,221.1	726,328.5	110	10	--	--	10	11	Vertical Component
HC-3.2	1,177,144.2	726,249.9	110	10	--	--	10	11	Vertical Component
HC-4.1	1,177,367.7	726,446.9	136	136	--	--	136	137	Vertical Component
HC-4.2	1,177,454.3	726,349.1	110	10	--	--	10	11	Vertical Component
HC-5.1	1,177,376.6	726,623.9	110	10	--	--	10	11	Vertical Component
HC-6.1	1,177,246.5	726,727.8	110	10	--	--	10	11	Vertical Component
HC-7.1	1,177,007.6	726,782.3	110	10	--	--	10	11	Vertical Component
HC-8.1	1,176,771.5	726,895.9	110	10	--	--	10	11	Vertical Component

- DRILLING NOTES:**
- THIS DRAFT WELL COMPLETION SCHEDULE IS NOT INTENDED FOR CONSTRUCTION, UNTIL ACTUAL SURVEY DATA IS OBTAINED AND THE WELL COMPLETION SCHEDULE IS REVISED BY THE DESIGN ENGINEER.
 - CONTRACTOR SHALL LOCATE WELLS AND VERIFY SURFACE ELEVATIONS BEFORE CONSTRUCTION. CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION SURVEY (NORTHING/EASTING/ELEVATION DATA) TO ENGINEER A MINIMUM OF 1 WEEK PRIOR TO CONSTRUCTION. ENGINEER SHALL VERIFY THE WELL SCHEDULE BASED ON THE PRE-CONSTRUCTION SURVEY.
 - CONTRACTOR SHALL PROVIDE SURVEY INFORMATION TO OWNER AND ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - FOLLOWING REVIEW OF SURVEY DATA, CONTRACTOR SHALL GET AUTHORIZATION FROM OWNER AND ENGINEER PRIOR TO DRILLING.



- LEGEND:**
- ⊙ V-6 PROPOSED VERTICAL LFG PASSIVE VENT
 - ⊕ HC-1 PROPOSED HORIZONTAL VENT GOOSENECK
 - ⊙ HC-1A-1 PROPOSED HORIZONTAL COLLECTOR VERTICAL LFG COMPONENT
 - PROPOSED HORIZONTAL VENT PERFORATED PIPE
 - PROPOSED HORIZONTAL VENT SOLID PIPE
 - + PROPOSED TRANSITION FROM SOLID PIPE TO PERFORATED PIPE
 - ⊕ GP-4 EXISTING GAS MONITORING PROBE
 - ⊙ MH-1 EXISTING MANHOLE
 - 85 MAJOR CONTOUR (TOP OF INTERMEDIATE COVER)
 - MINOR CONTOUR (TOP OF INTERMEDIATE COVER)
 - ⊙ GV EXISTING PERIMETER GAS VENT TRENCH

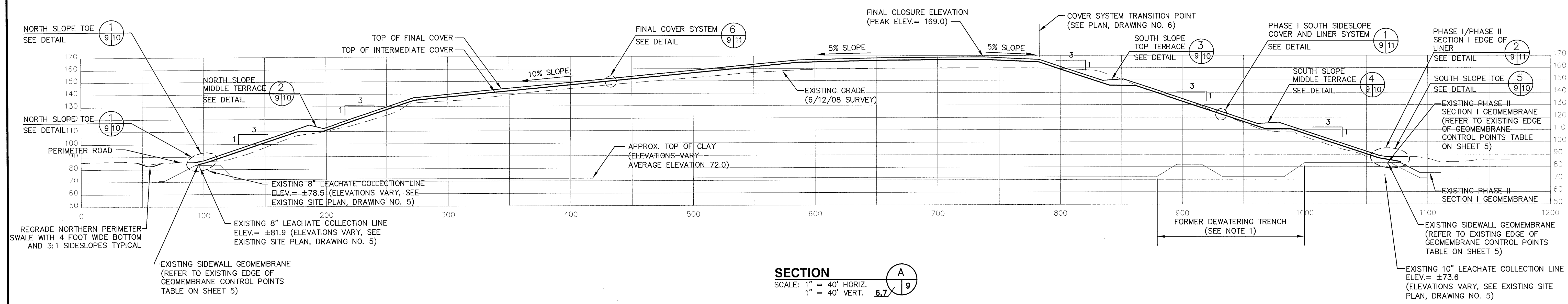
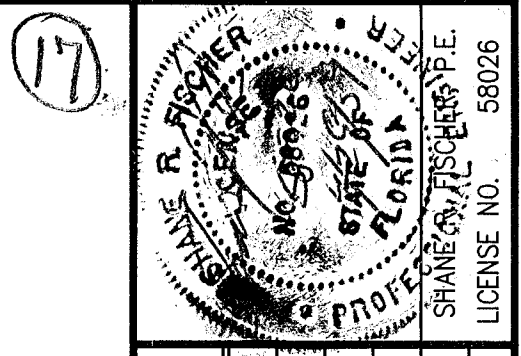
- NOTES:**
- PROPOSED GRADES SHOWN ARE TOP OF INTERMEDIATE COVER CONTOURS AND ARE APPROXIMATELY 18 INCHES ABOVE TOP OF WASTE.
 - EXCAVATED REFUSE SHALL BE HAULED ON A DAILY BASIS TO THE PHASE II SECTION I WORKING FACE OR OTHER LOCATION APPROVED BY THE OWNER.
 - CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3% SLOPE FOR ALL HORIZONTAL LFG VENT PIPING. IN THE CASE WHERE 3% CANNOT BE MAINTAINED, CONTRACTOR SHALL NOTIFY ENGINEER FOR SLOPE APPROVAL.
 - CONTRACTOR SHALL COORDINATE SITE ACCESS AND SEQUENCING OF WORK WITH OWNER.
 - ELECTROFUSION COUPLINGS SHALL NOT BE USED WITHOUT WRITTEN APPROVAL FROM ENGINEER OR OWNER.

SURVEY SOURCE NOTE:

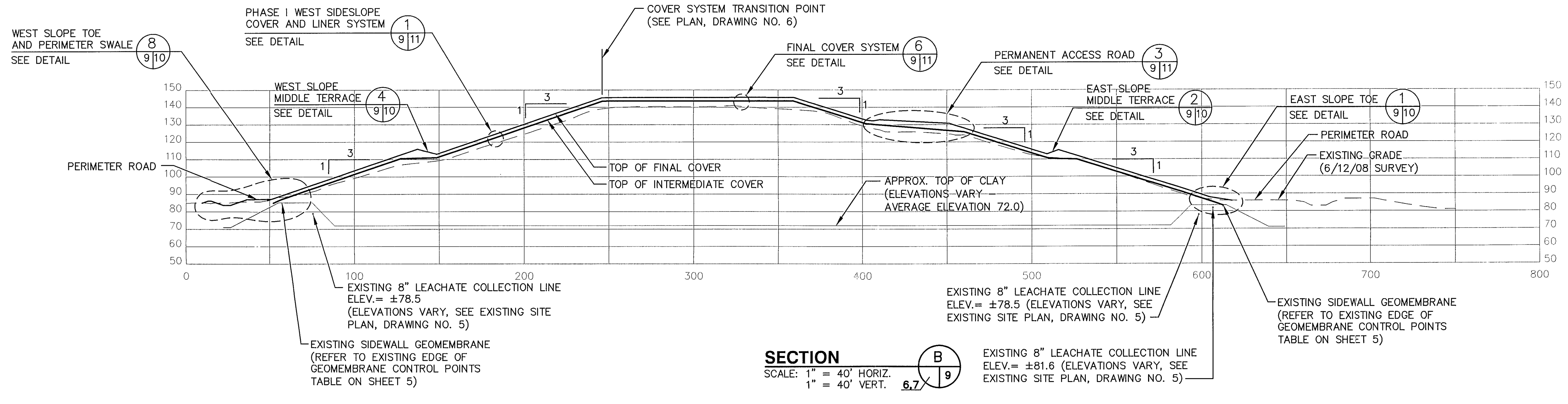
TOPOGRAPHIC SURVEY PERFORMED BY PICKETT & ASSOCIATES, INC. 502 MAIN STREET WACHULA, FLORIDA 33873 PHONE: (863) 773-3990 PHOTO DATE: JUNE 12, 2008.

- SURVEY NOTES:**
- NORTH, THE GRID, AND THE COORDINATES SHOWN HEREON ARE REFERENCED TO THE WEST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83, 1999 ADJUSTMENT.
 - ELEVATIONS ARE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.
 - SEE THE SURVEYOR'S REPORT FOR MAP ACCURACY AND SURVEYOR'S SIGNATURE AND SEAL.

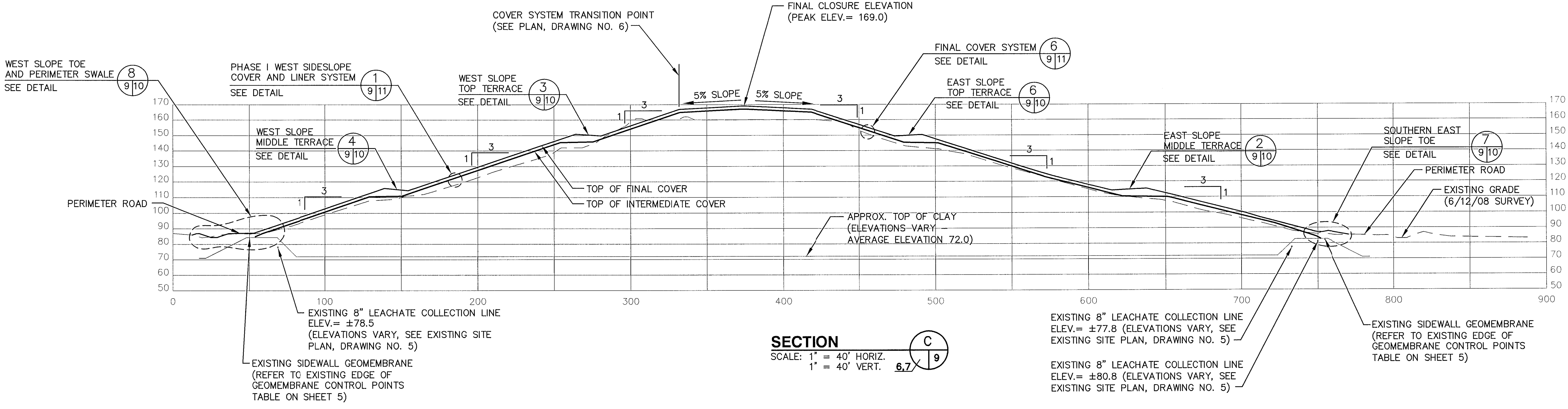
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JUL 13 2009
SOUTHWEST DISTRICT
TAMPA



SECTION A
SCALE: 1" = 40' HORIZ.
1" = 40' VERT. 6.7/9



SECTION B
SCALE: 1" = 40' HORIZ.
1" = 40' VERT. 6.7/9



SECTION C
SCALE: 1" = 40' HORIZ.
1" = 40' VERT. 6.7/9

NOTES:

- BOTTOM CLAY ELEVATIONS AND SIDESLOPE SHOWN WERE APPROXIMATED FROM DRAWINGS BY ENVISOR, DATED NOVEMBER 1982, PROJECT NO. 81 014-82(1). ACTUAL DEPTH OF WASTE NOT DETERMINED.
- SLOPES SHALL NOT EXCEED 3(H):1(V) AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATION.

REV	DATE	DESCRIPTION

DRAWING TITLE: **FINAL CLOSURE SECTIONS**
PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS**

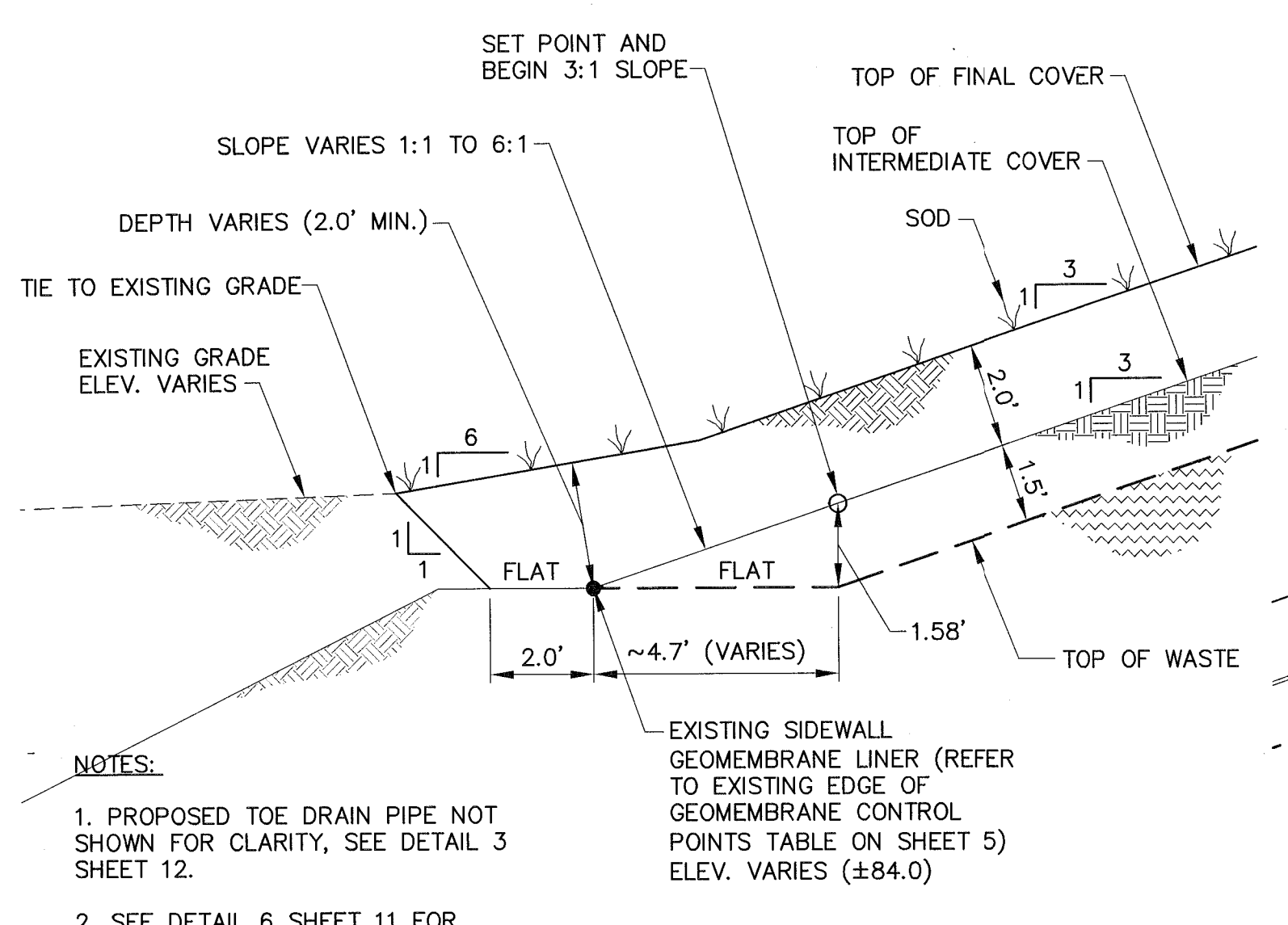
CLIENT: **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 821-0880 FAX 813 823-8757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00064882
DWN: BJA/CTN G/A: RVS/SRT
ISS: 9/99033.17 CHK: BJS APP: BJS/CEH

CADD FILE: 993317SECTIONS
DATE: APRIL 2009
SCALE: AS SHOWN
DRAWING NO.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 30 2009
SOUTHWEST DISTRICT TAMPA

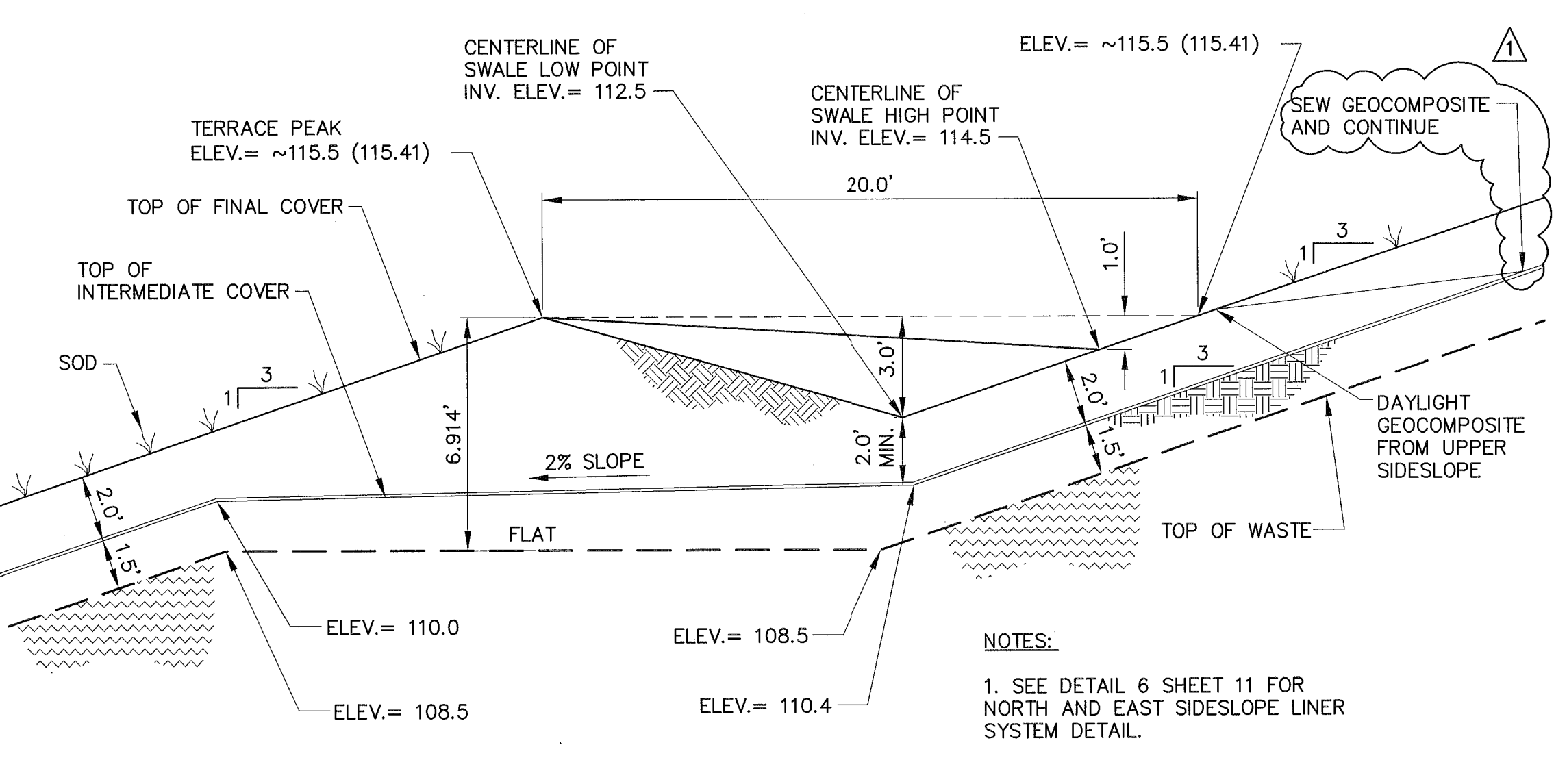
18



NOTES:

1. PROPOSED TOE DRAIN PIPE NOT SHOWN FOR CLARITY, SEE DETAIL 3 SHEET 12.
2. SEE DETAIL 6 SHEET 11 FOR NORTH AND EAST SIDESLOPE LINER SYSTEM DETAIL.

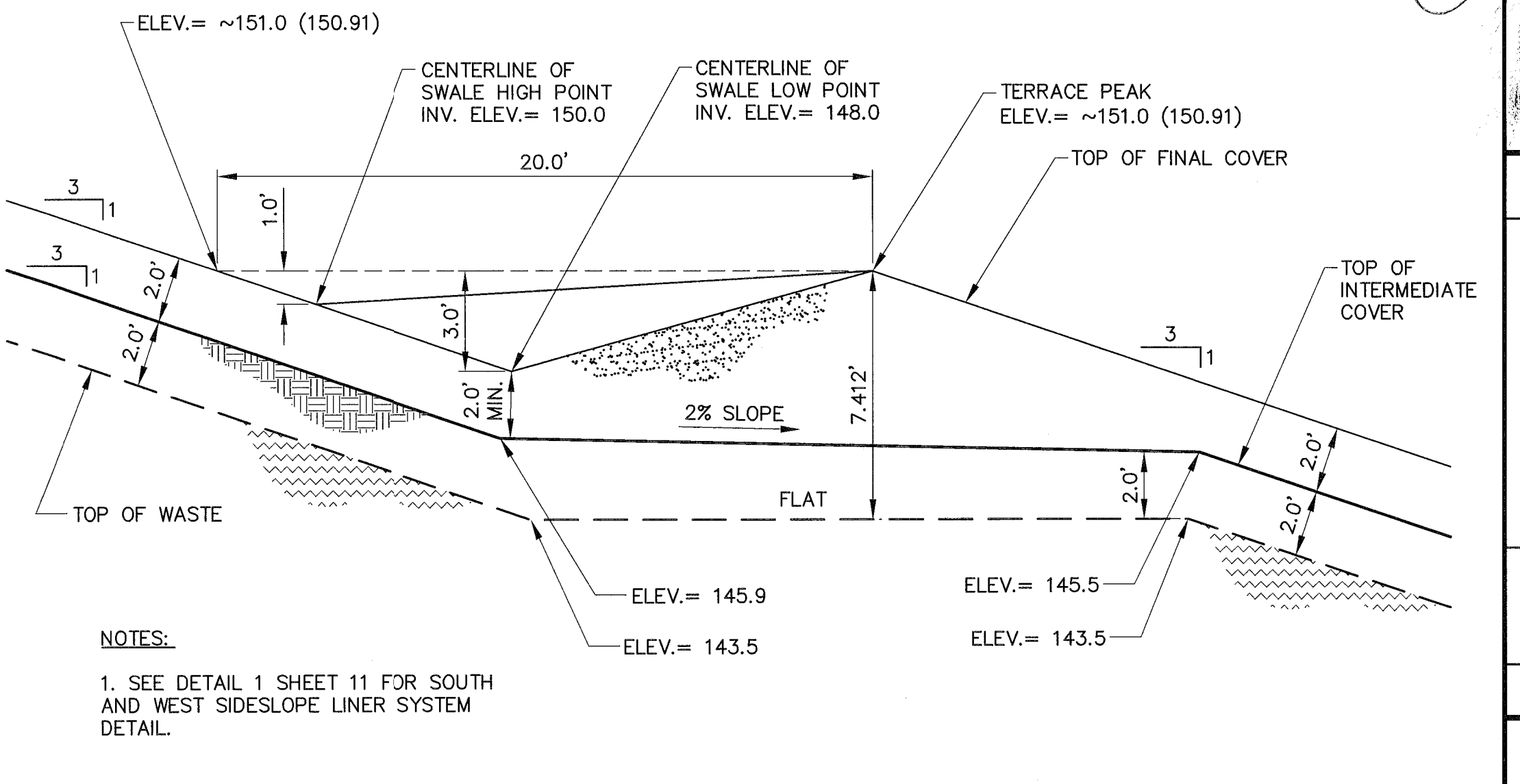
NORTH AND EAST SLOPE TOE DETAIL 1
SCALE: 1" = 3'



NOTES:

1. SEE DETAIL 6 SHEET 11 FOR NORTH AND EAST SIDESLOPE LINER SYSTEM DETAIL.

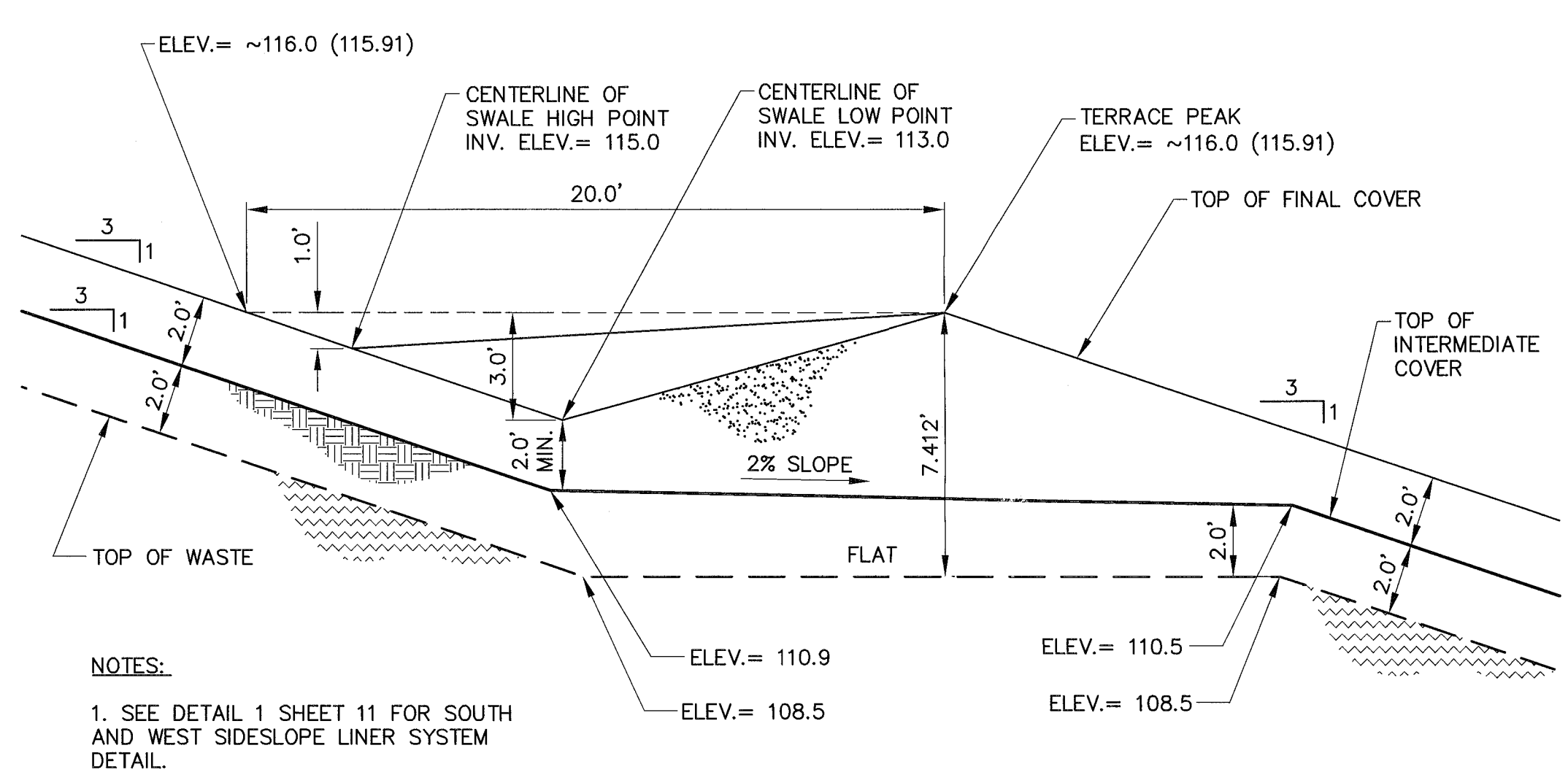
NORTH AND EAST SLOPE MIDDLE TERRACE DETAIL 2
SCALE: 1" = 4'



NOTES:

1. SEE DETAIL 1 SHEET 11 FOR SOUTH AND WEST SIDESLOPE LINER SYSTEM DETAIL.

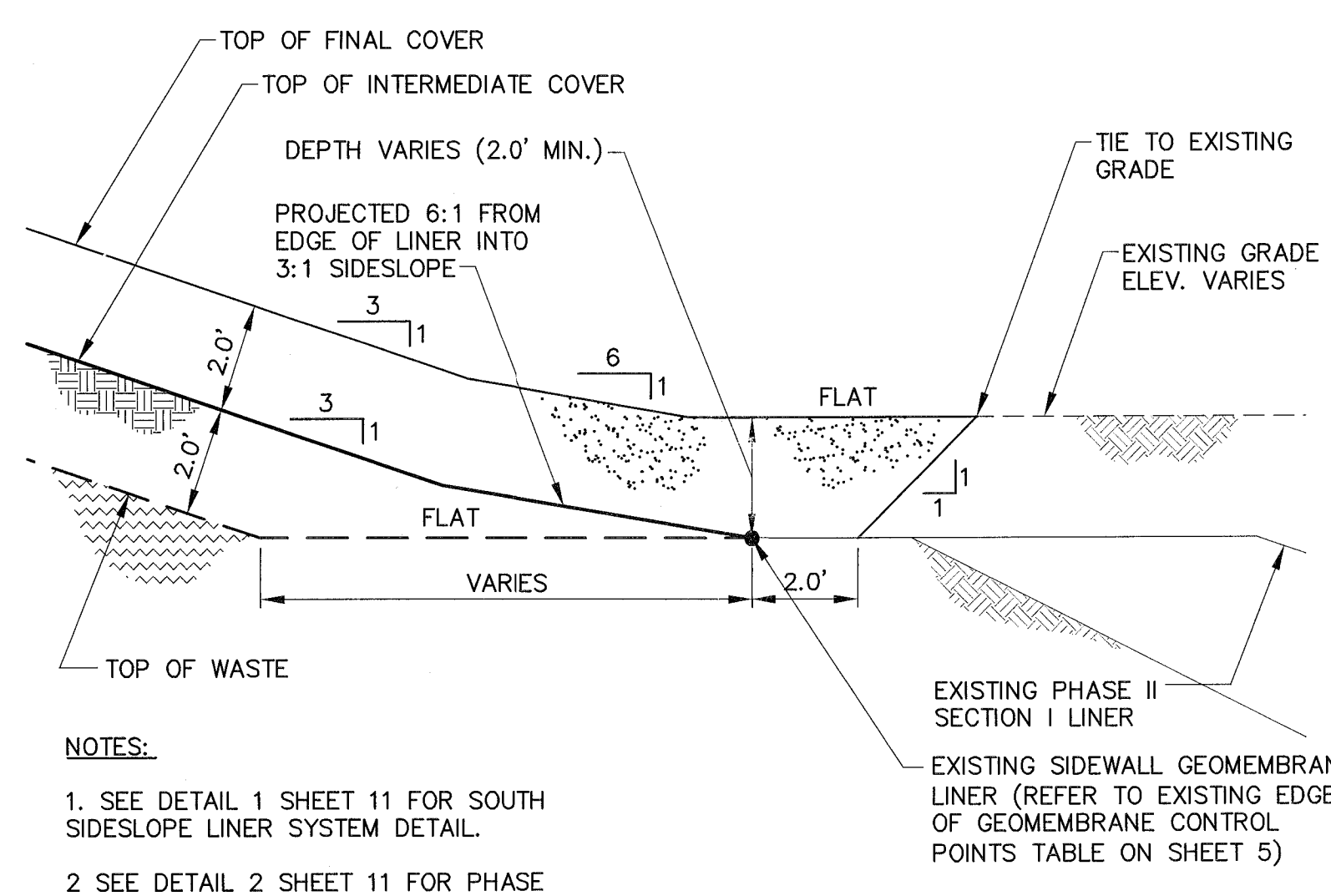
SOUTH AND WEST SLOPE TOP TERRACE DETAIL 3
SCALE: 1" = 4'



NOTES:

1. SEE DETAIL 1 SHEET 11 FOR SOUTH AND WEST SIDESLOPE LINER SYSTEM DETAIL.

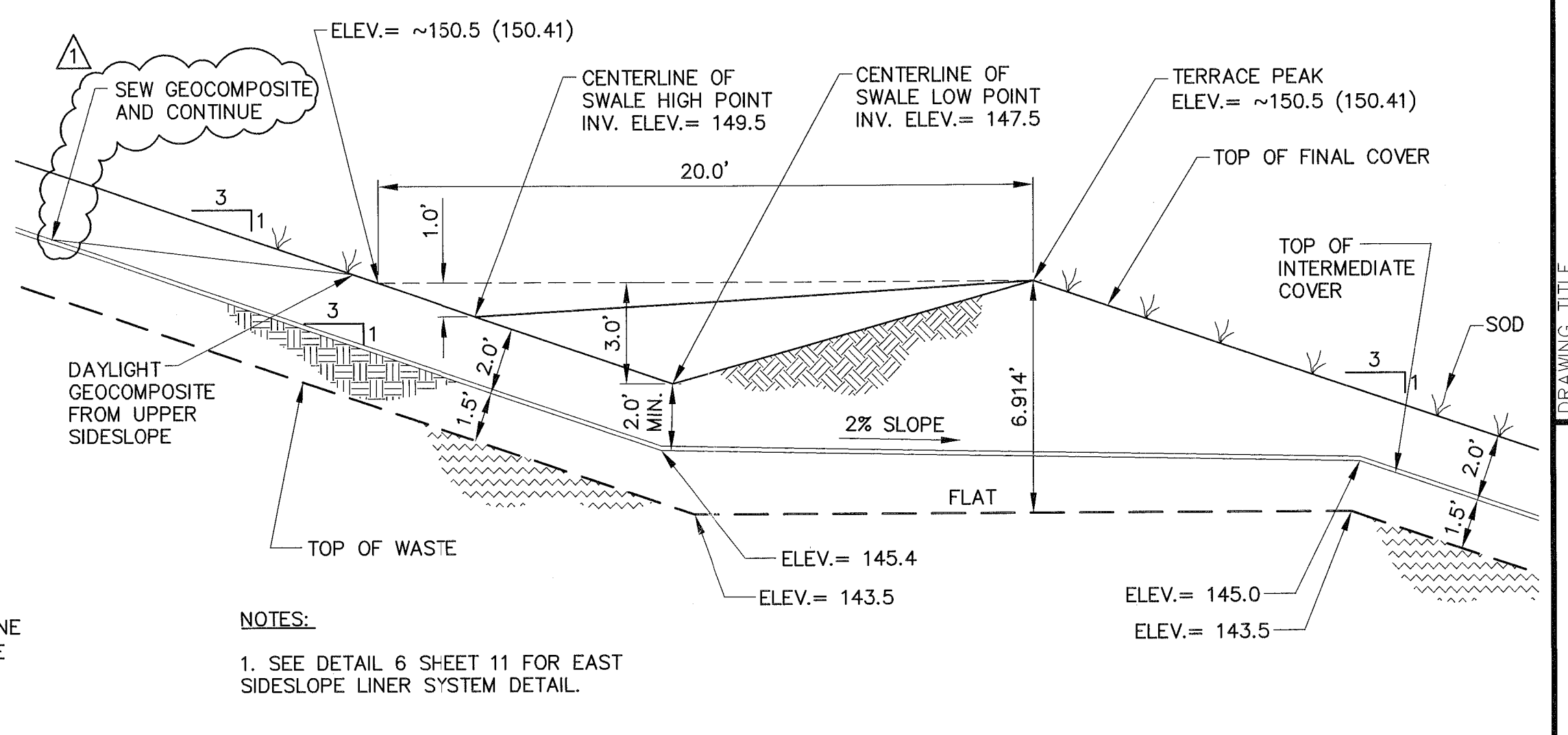
SOUTH AND WEST SLOPE MIDDLE TERRACE DETAIL 4
SCALE: 1" = 4'



NOTES:

1. SEE DETAIL 1 SHEET 11 FOR SOUTH SIDESLOPE LINER SYSTEM DETAIL.
2. SEE DETAIL 2 SHEET 11 FOR PHASE I/PHASE II SECTION I EDGE OF LINER DETAIL.

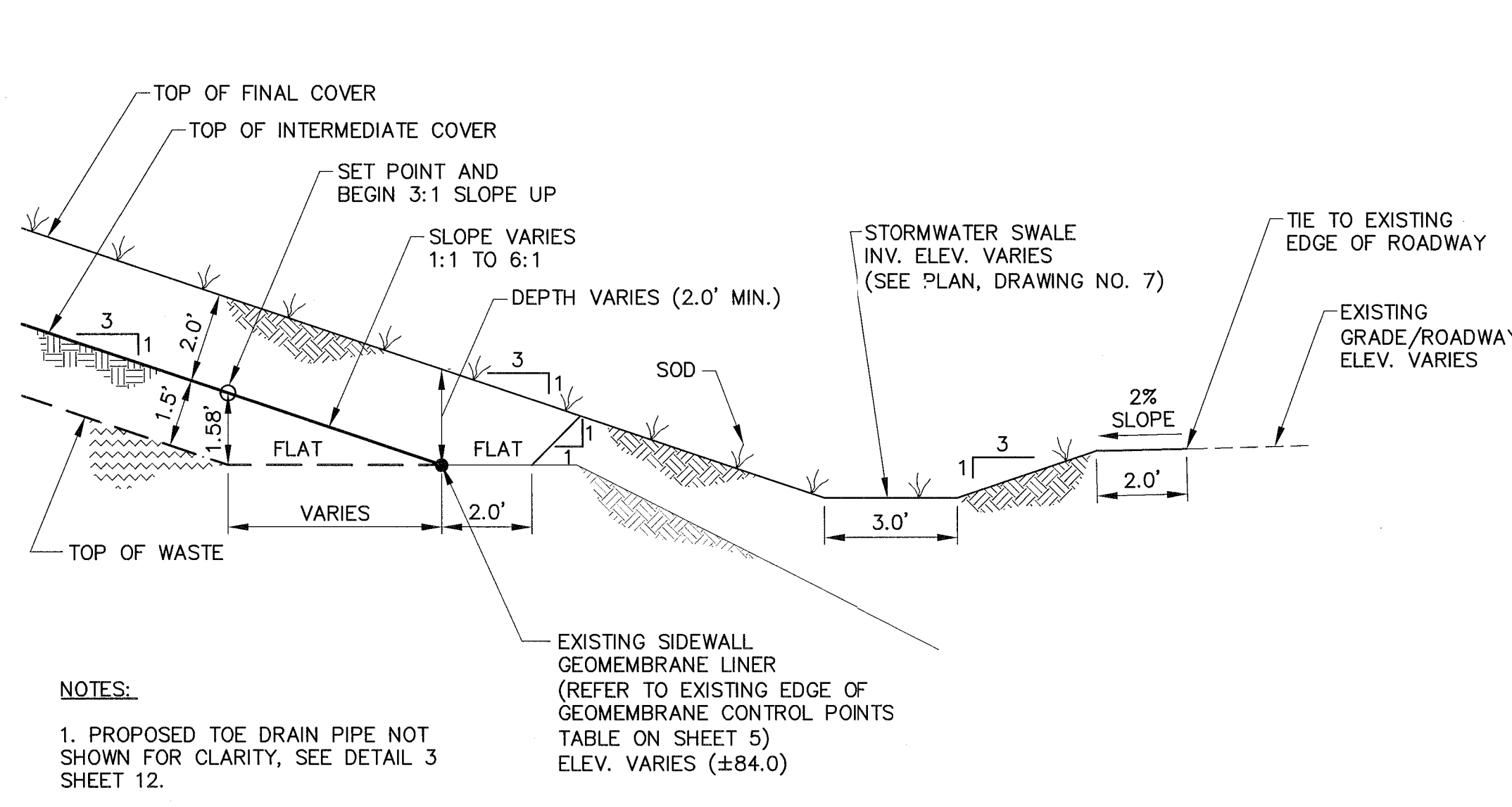
SOUTH SLOPE TOE DETAIL 5
SCALE: 1" = 3'



NOTES:

1. SEE DETAIL 6 SHEET 11 FOR EAST SIDESLOPE LINER SYSTEM DETAIL.

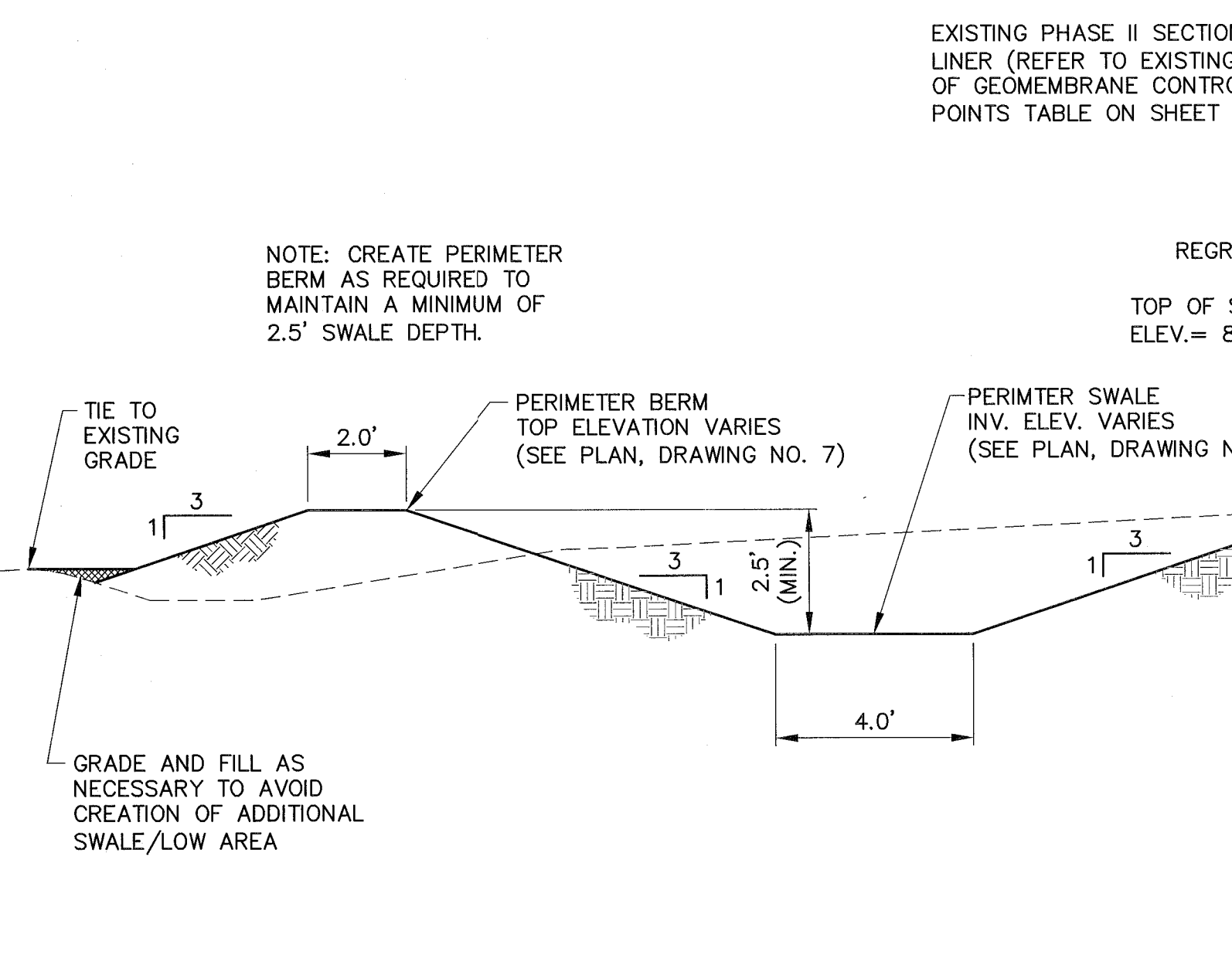
EAST SLOPE TOP TERRACE DETAIL 6
SCALE: 1" = 4'



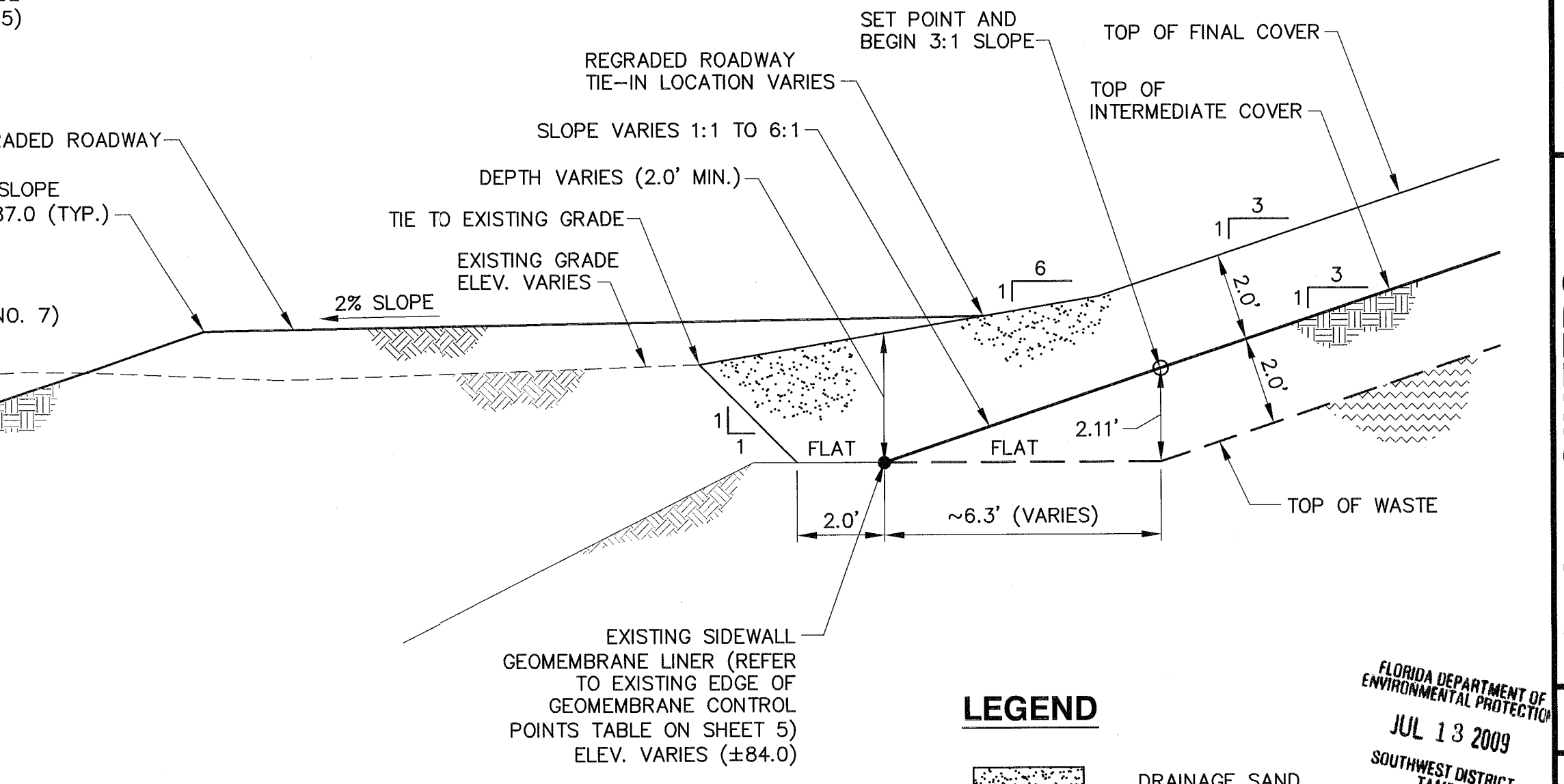
NOTES:

1. PROPOSED TOE DRAIN PIPE NOT SHOWN FOR CLARITY, SEE DETAIL 3 SHEET 12.
2. SEE DETAIL 1 SHEET 11 FOR EAST SIDESLOPE LINER SYSTEM DETAIL.

SOUTHERN EAST SLOPE TOE DETAIL 7
SCALE: 1" = 3'



WEST SLOPE TOE AND PERIMETER SWALE DETAIL 8
SCALE: 1" = 3'



NOTES:

1. SEE DETAIL 6 SHEET 11 FOR EAST SIDESLOPE LINER SYSTEM DETAIL.

LEGEND

- DRAINAGE SAND PROTECTIVE COVER
- PROTECTIVE COVER
- INTERMEDIATE COVER
- WASTE AND IN-PLACE SOIL COVER

REV	DATE	DESCRIPTION
1	07/13/09	REVISED PER FDP RAI NO. 1
2		
3		
4		
5		

DETAILS -1

DRAWING TITLE: HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
404 PARK CAVES BLVD., SUITE 100, TAMPA, FL 33610
813 921-0886 FAX 813 923-2575
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 0004882
DATE: 07/13/09
DRAWN BY: SDA/CTN
CHECKED BY: CCH
APP. BY: CCH

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JUL 13 2009
SOUTHWEST DISTRICT TAMPA

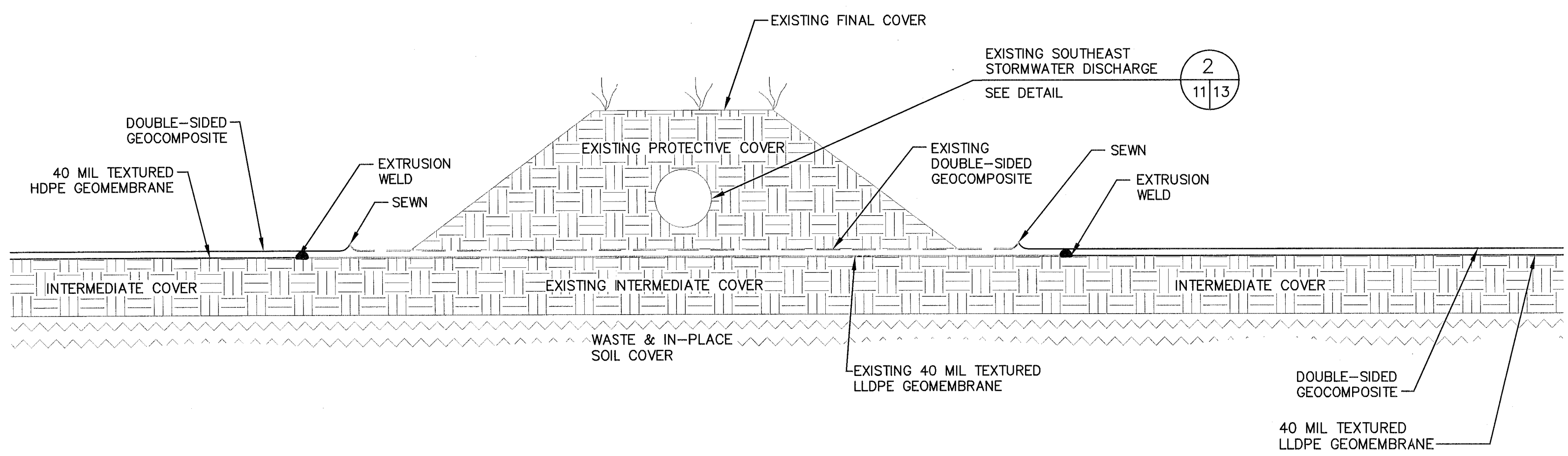
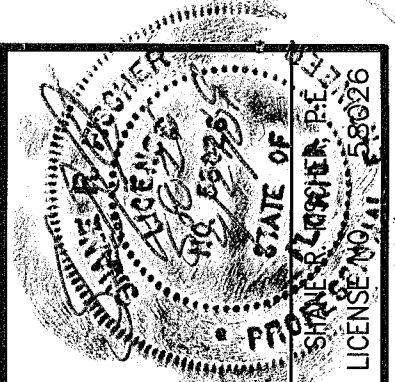
CADD FILE: 993317DETAILS1

DATE: APRIL 2009

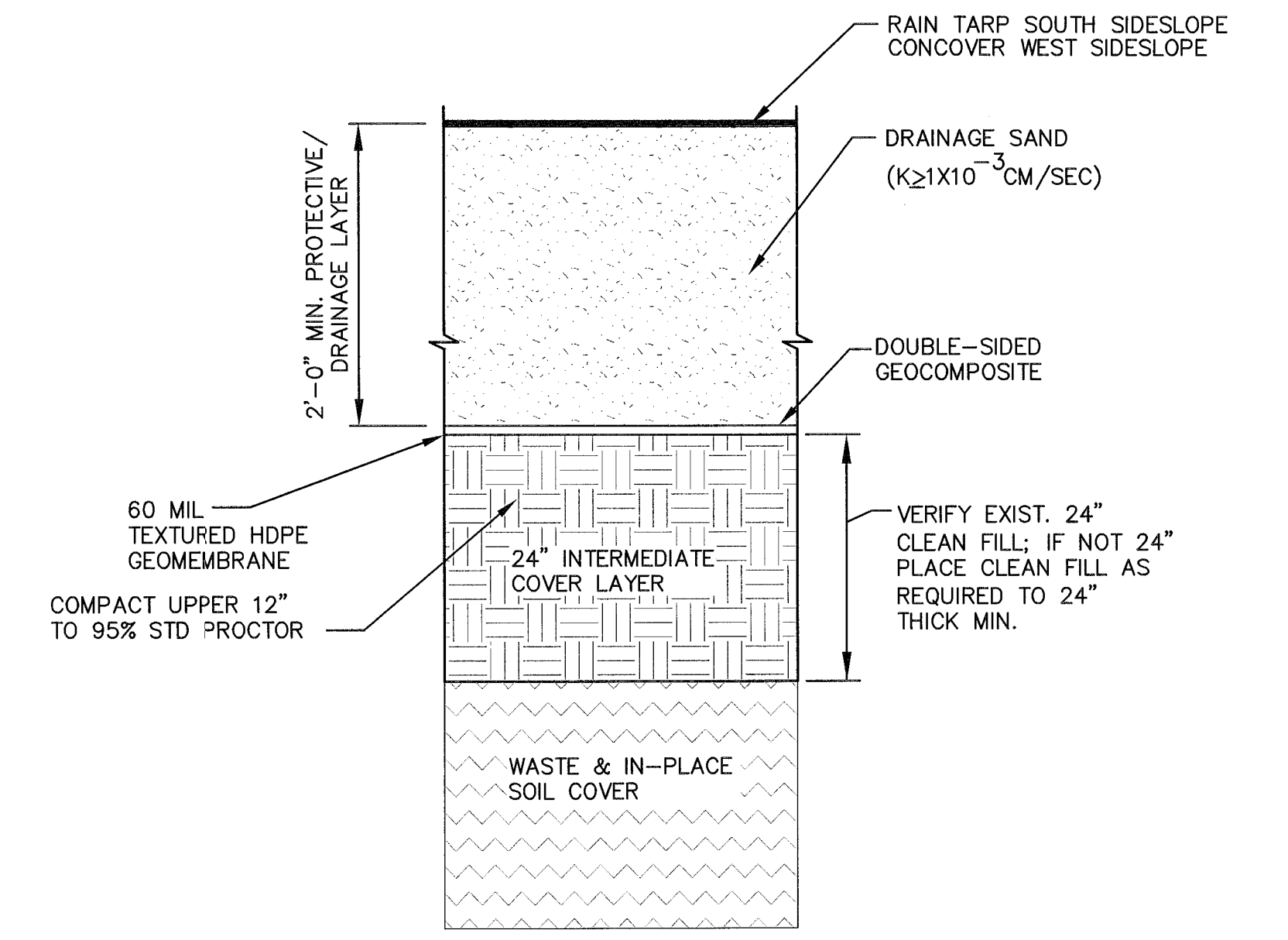
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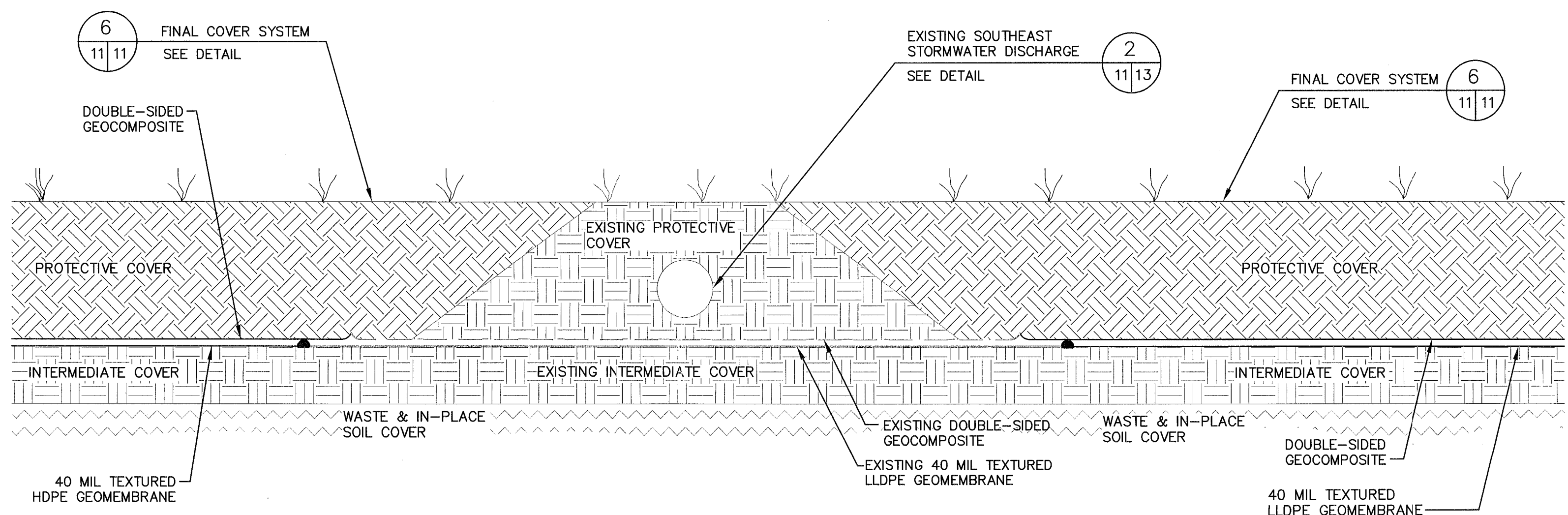
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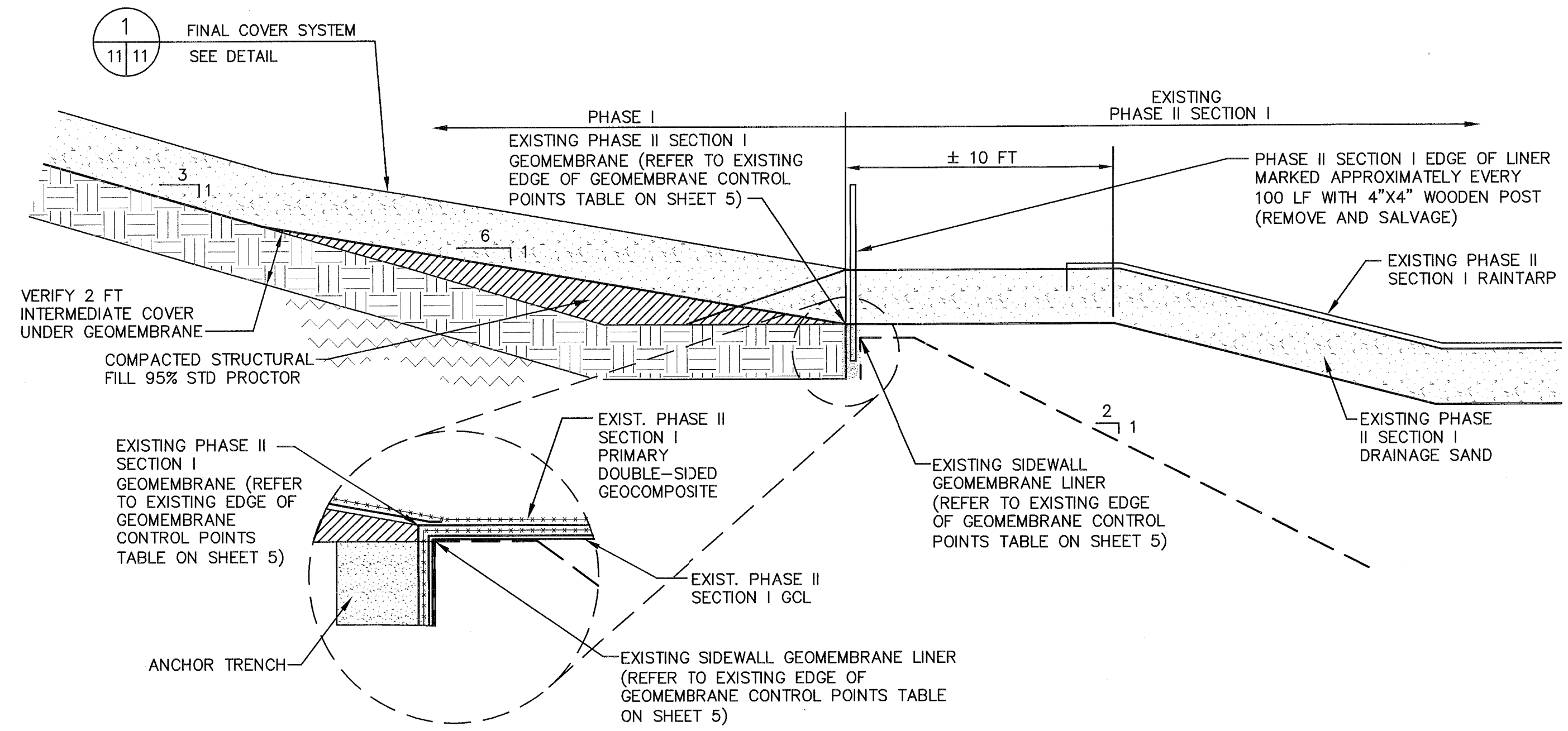
**TIE-IN TO EXISTING GEOSYNTHETICS
SOUTHEAST STORMWATER DISCHARGE** 4
NOT TO SCALE 7/11



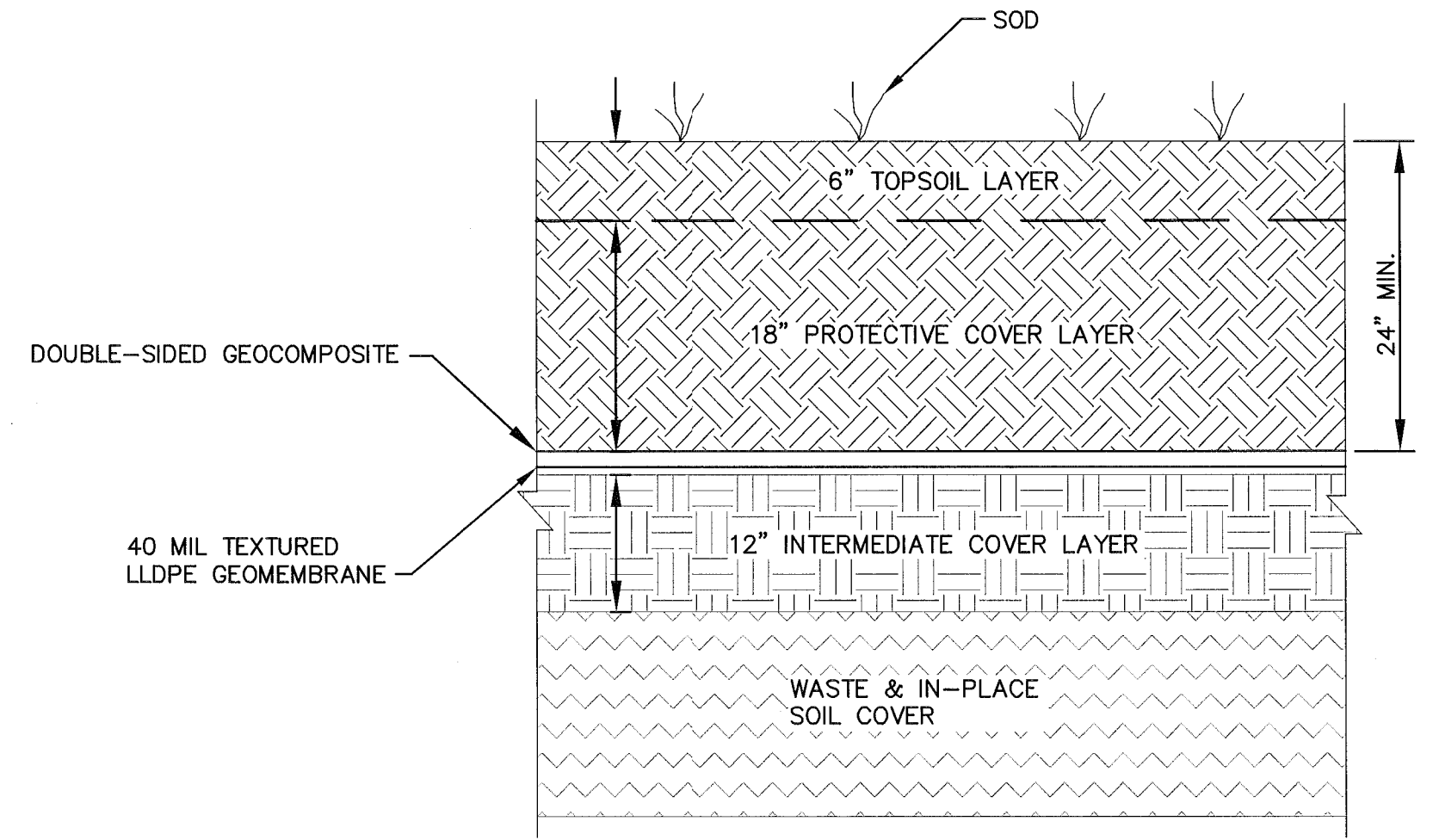
**PHASE I WEST AND SOUTH SIDESLOPE
COVER AND LINER SYSTEM DETAIL** 1
NOT TO SCALE 7/11



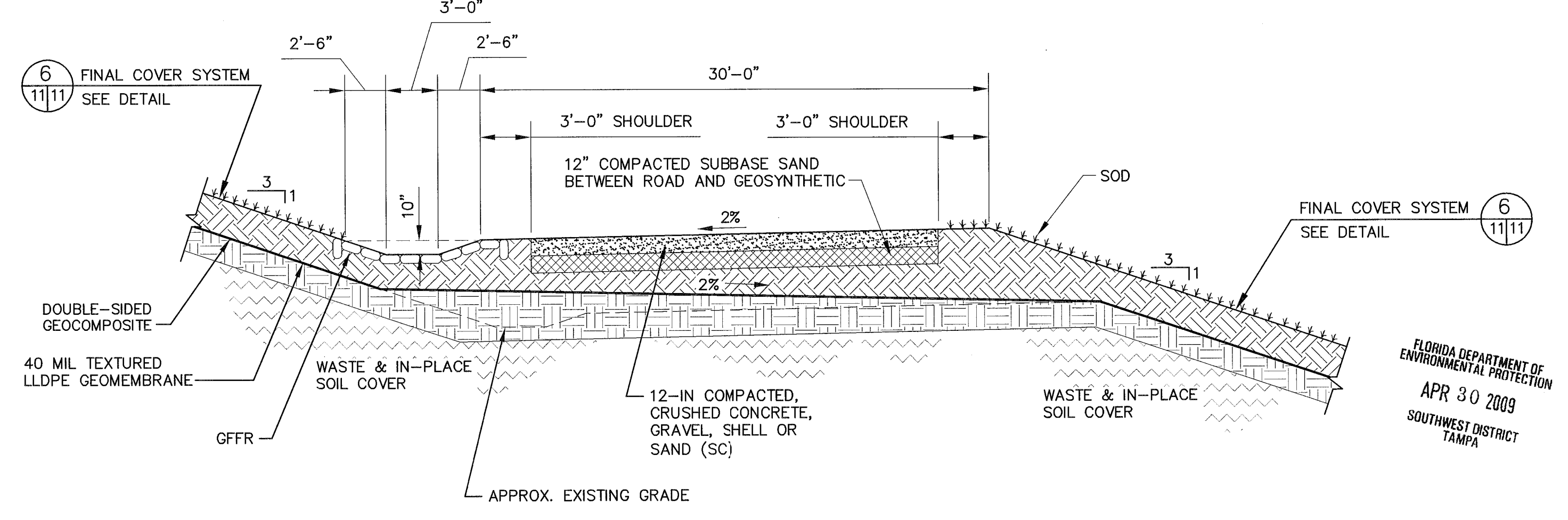
**FINAL COVER TIE-IN OF GEOSYNTHETICS
TO SOUTHEAST STORMWATER DISCHARGE** 5
NOT TO SCALE 7/11



**PHASE I/PHASE II SECTION I
EDGE OF LINER DETAIL** 2
SCALE: 1" = 4' 7/11



**PHASE I TOP, NORTH AND EAST
FINAL COVER SYSTEM DETAIL** 6
NOT TO SCALE 7/11



PHASE I TYPICAL PERMANENT ACCESS RAMP DETAIL 3
SCALE: 1" = 6' 7/11

DETAILS - 2

DRAWING TITLE: HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

CLIENT: SCS ENGINEERS
STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 667-0060 FAX 813 666-4757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 0006866
PROJ. NO. 0903033.17
DWN: CITY/RDU
CHK: SR
APP: BY: CEH
DAW/SRF

CADD FILE: 993317DETAILS
DATE: APRIL 2009
SCALE: AS SHOWN
DRAWING NO.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APR 30 2009
SOUTHWEST DISTRICT TAMPA

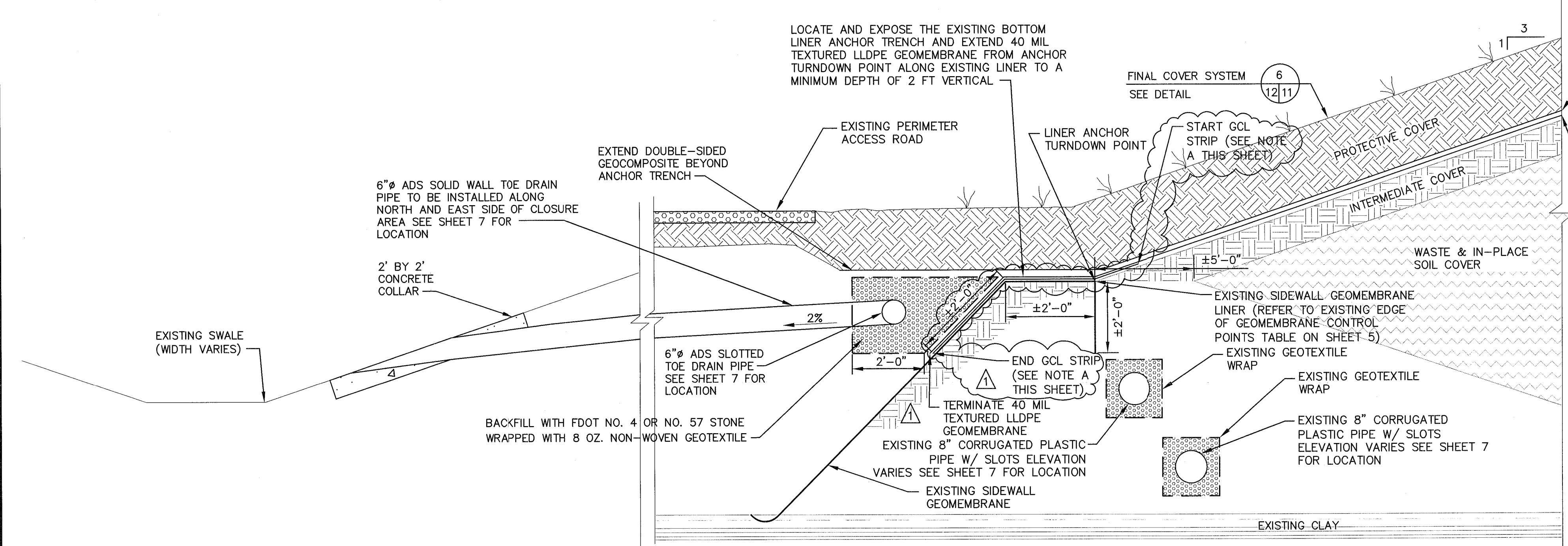


BY: SRP	DATE: 07/13/09	REVISION: REVISED PER FDEP RAI NO. 1

DRAWING TITLE	DETAILS - 3
PROJECT TITLE	HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

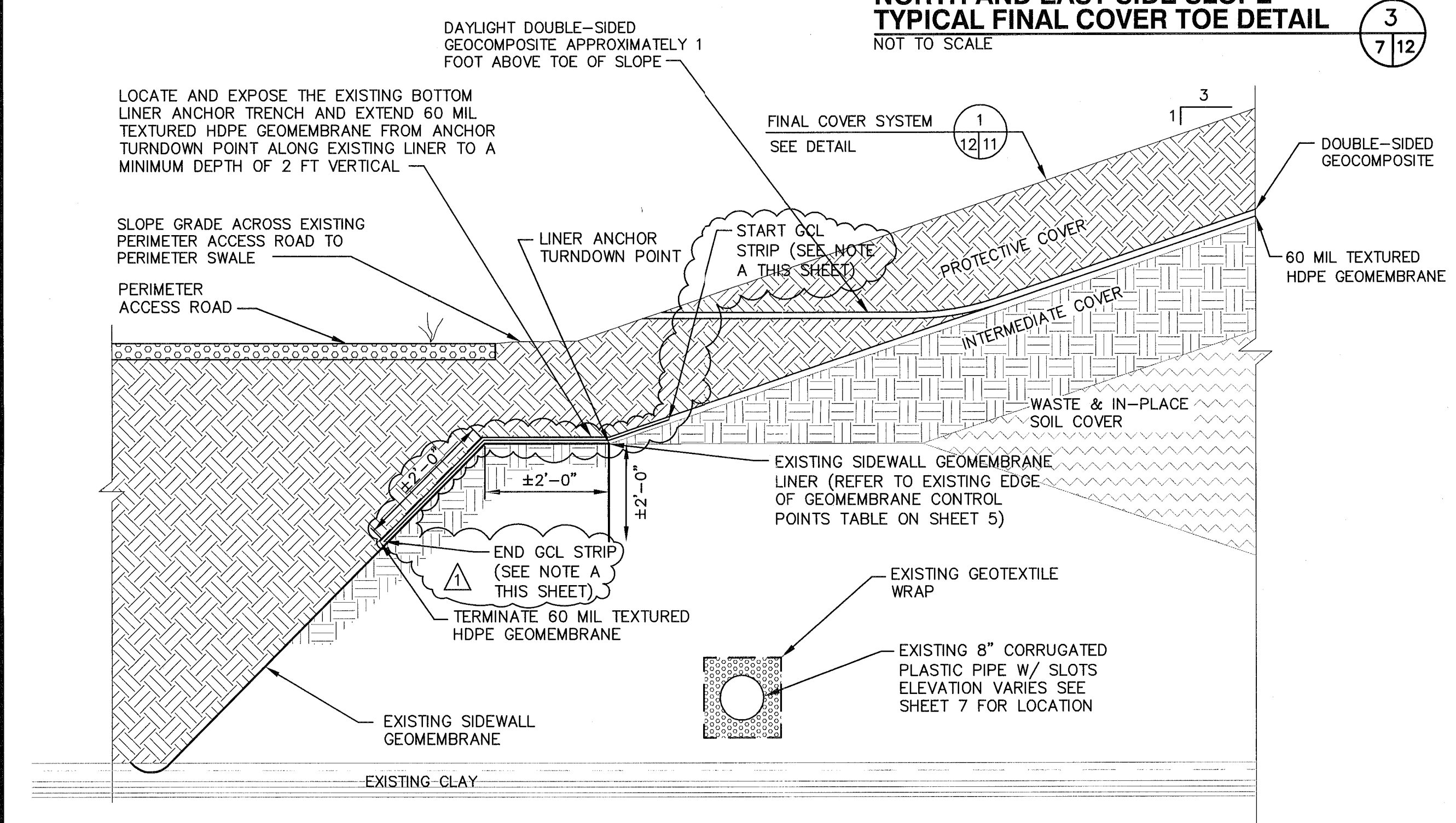
CLIENT	HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
--------	---

CLIENT	SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 4041 PARK GARDEN BLVD., SUITE 100, TAMPA, FL 33610 813 827-0089 FAX 813 823-6757 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
PROJECT NO.	09199033.17
DATE	AUG 13 2009
SCALE	AS SHOWN
DRAWING NO.	12 of 16

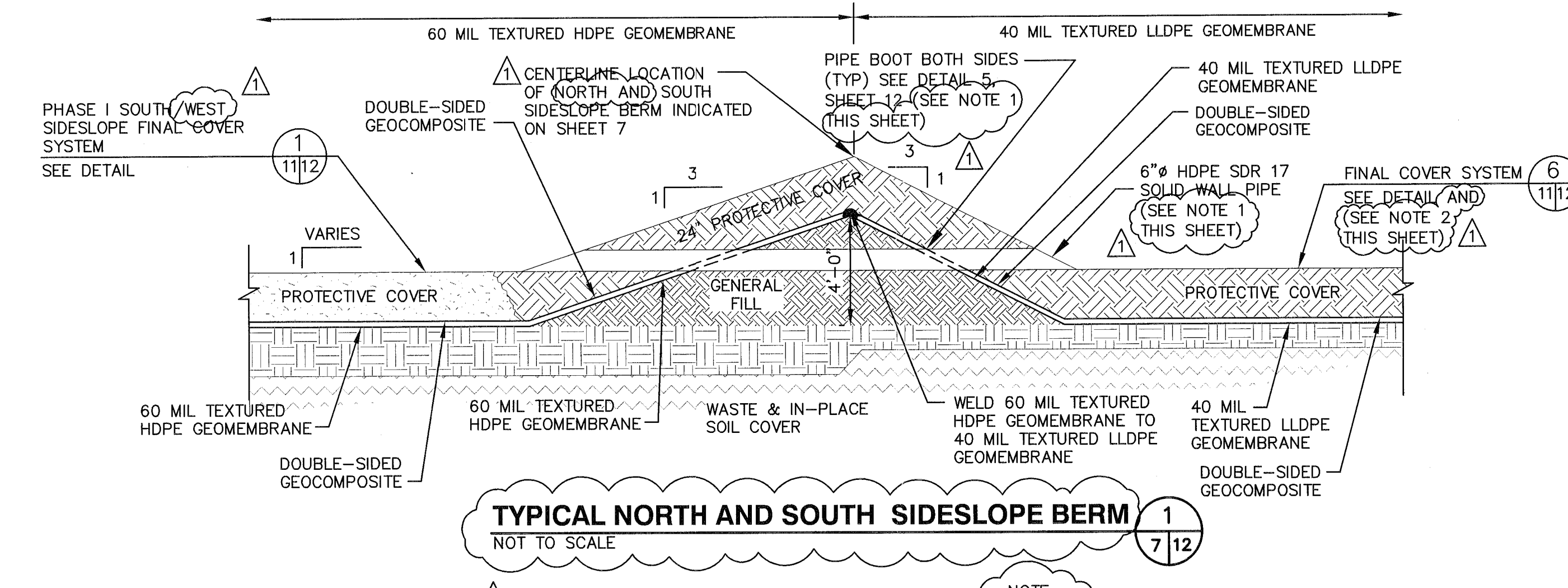


**NORTH AND EAST SIDE SLOPE
TYPICAL FINAL COVER TOE DETAIL** 3
NOT TO SCALE 7/12

NOTE:
A. GCL STRIP APPROXIMATELY 5 FEET WIDE PLACED ON TOP OF THE EXISTING SIDEWALL GEOMEMBRANE LINER ALONG THE NORTH, WEST AND EAST SIDES OF THE TOE OF SLOPE OF THE PROJECT AREA. THE GCL STRIP WILL BE PLACED SO IT WILL COVER THE TOP OF THE EXISTING SIDEWALL GEOMEMBRANE LINER ANCHOR TRENCH (APPROXIMATELY TWO FEET WIDE), EXTEND ONE FOOT ALONG THE SIDESLOPE OF THE TOP OF INTERMEDIATE COVER LAYER AND EXTENDED APPROXIMATELY TWO FEET ALONG THE EXISTING SIDESLOPE GEOMEMBRANE LINER.

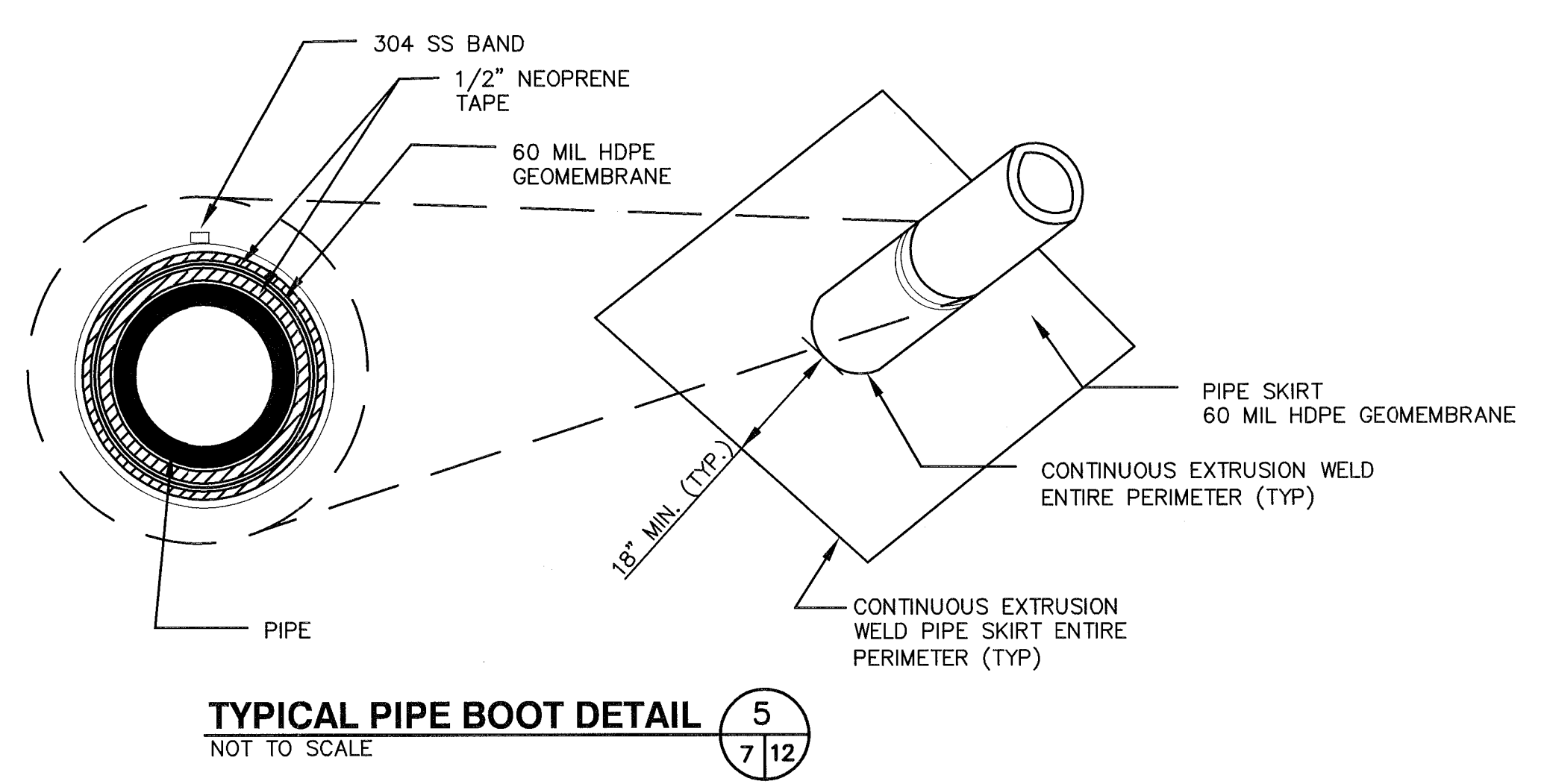


**WEST SIDE SLOPE
TYPICAL FINAL COVER TOE DETAIL** 4
NOT TO SCALE 7/12

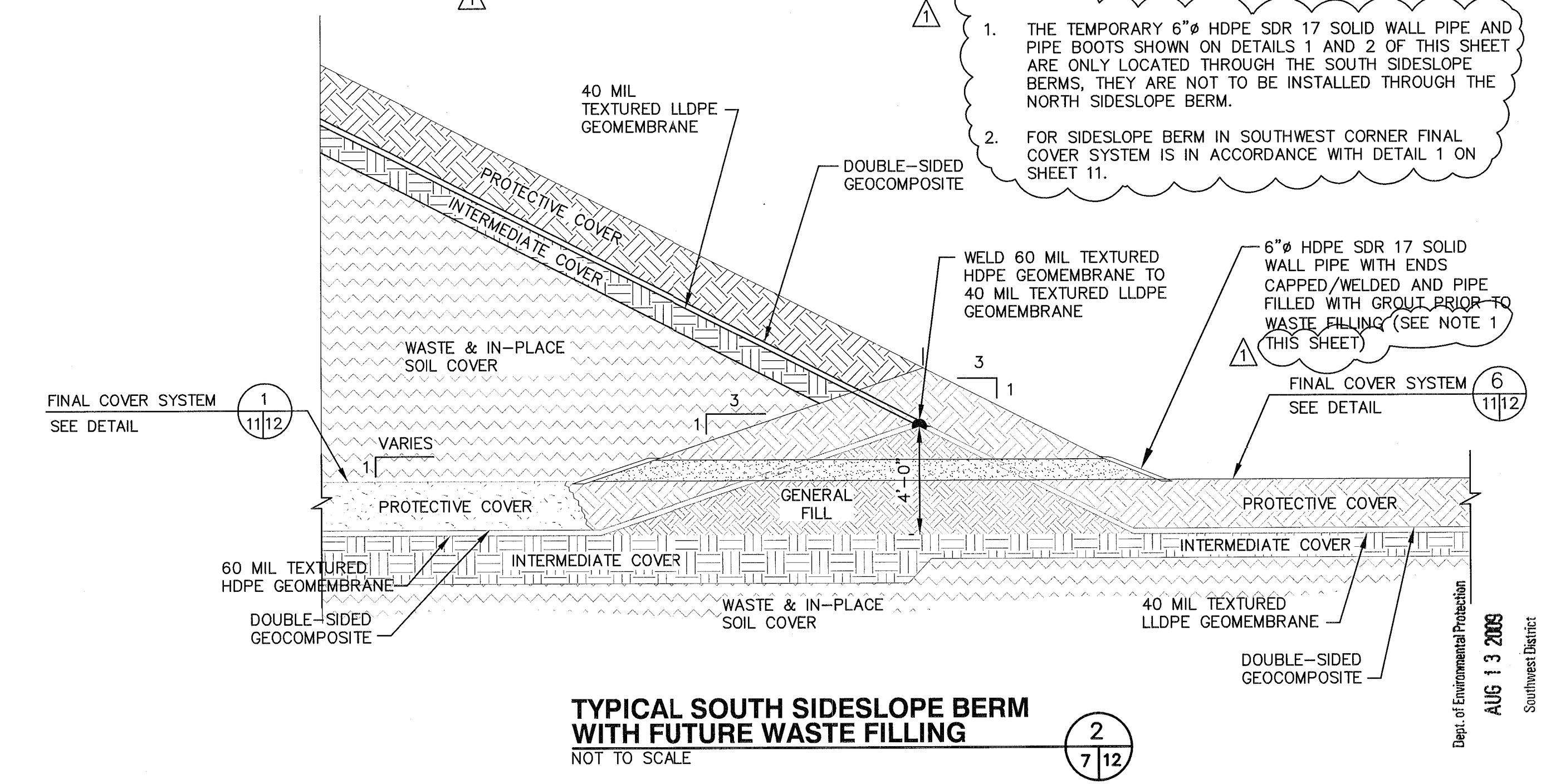


TYPICAL NORTH AND SOUTH SIDESLOPE BERM 1
NOT TO SCALE 7/12

NOTE:
1. THE TEMPORARY 6" HDPE SDR 17 SOLID WALL PIPE AND PIPE BOOTS SHOWN ON DETAILS 1 AND 2 OF THIS SHEET ARE ONLY LOCATED THROUGH THE SOUTH SIDESLOPE BERMS, THEY ARE NOT TO BE INSTALLED THROUGH THE NORTH SIDESLOPE BERM.
2. FOR SIDESLOPE BERM IN SOUTHWEST CORNER FINAL COVER SYSTEM IS IN ACCORDANCE WITH DETAIL 1 ON SHEET 11.



TYPICAL PIPE BOOT DETAIL 5
NOT TO SCALE 7/12



**TYPICAL SOUTH SIDESLOPE BERM
WITH FUTURE WASTE FILLING** 2
NOT TO SCALE 7/12

Dept. of Environmental Protection
AUG 13 2009
Southwest District

Dept. of Environmental Protection
AUG 13 2009
Southwest District



REV	DATE	DESCRIPTION

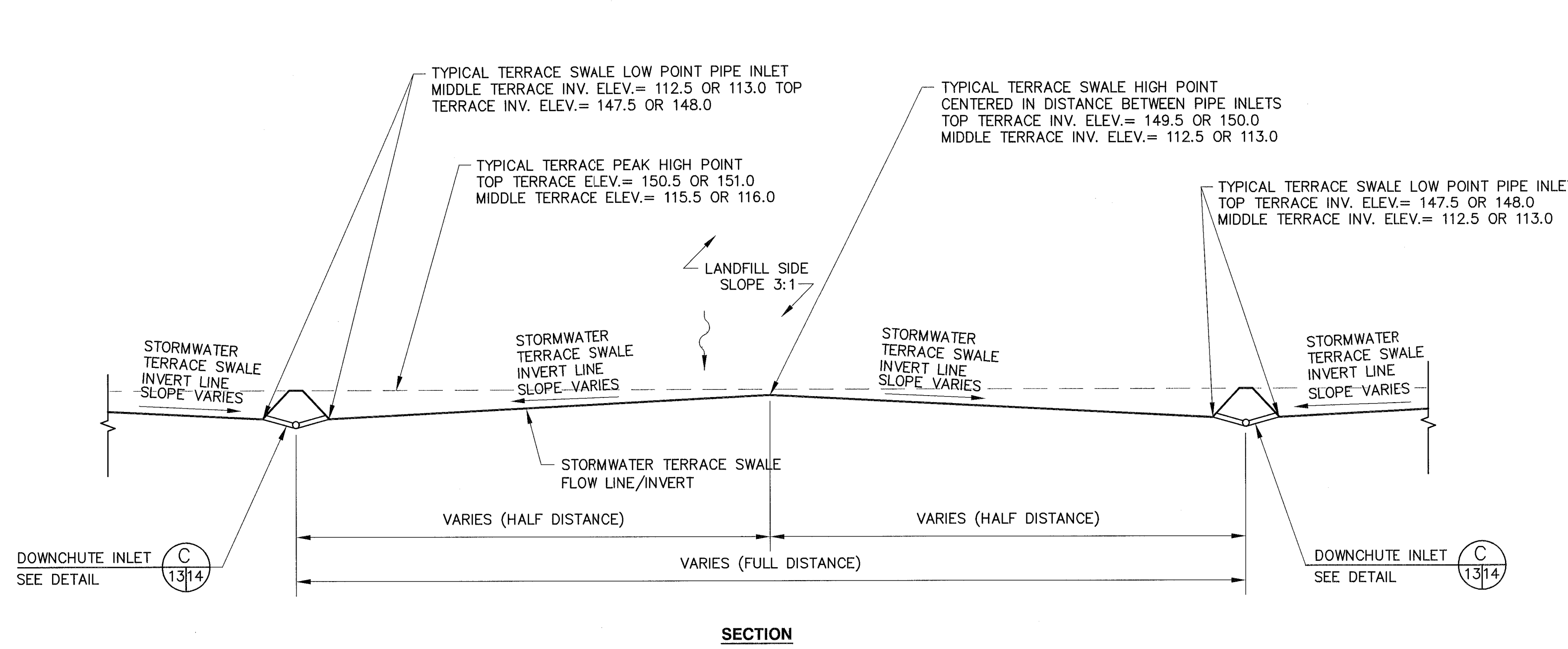
DRAWING TITLE: **DETAILS - 4**

PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS**

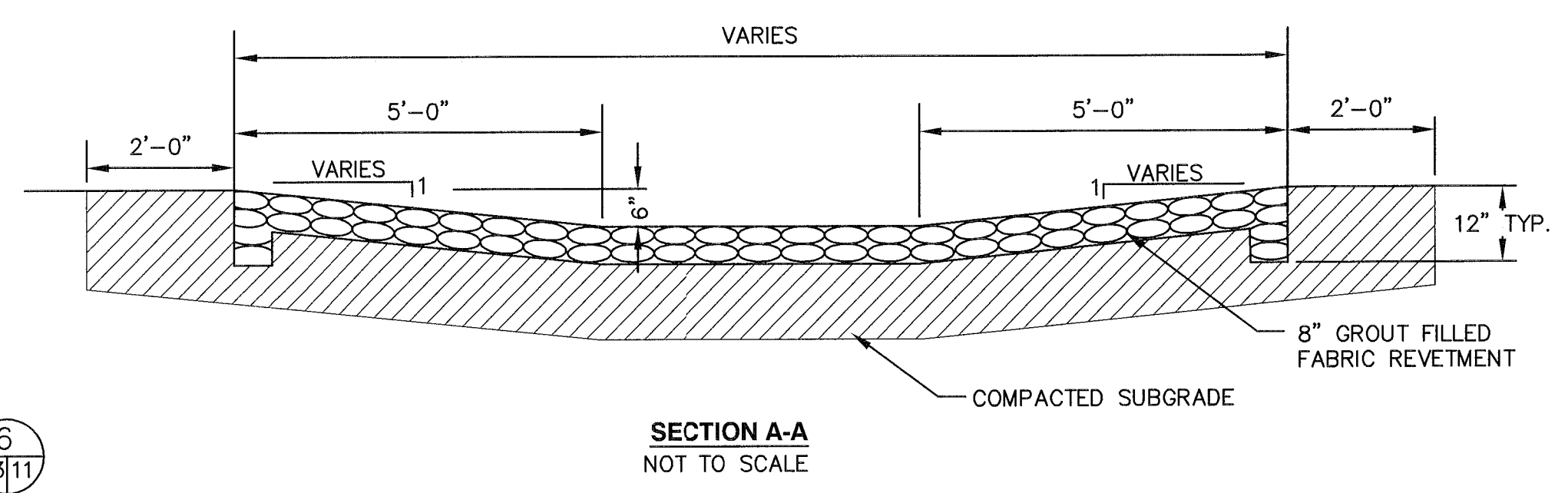
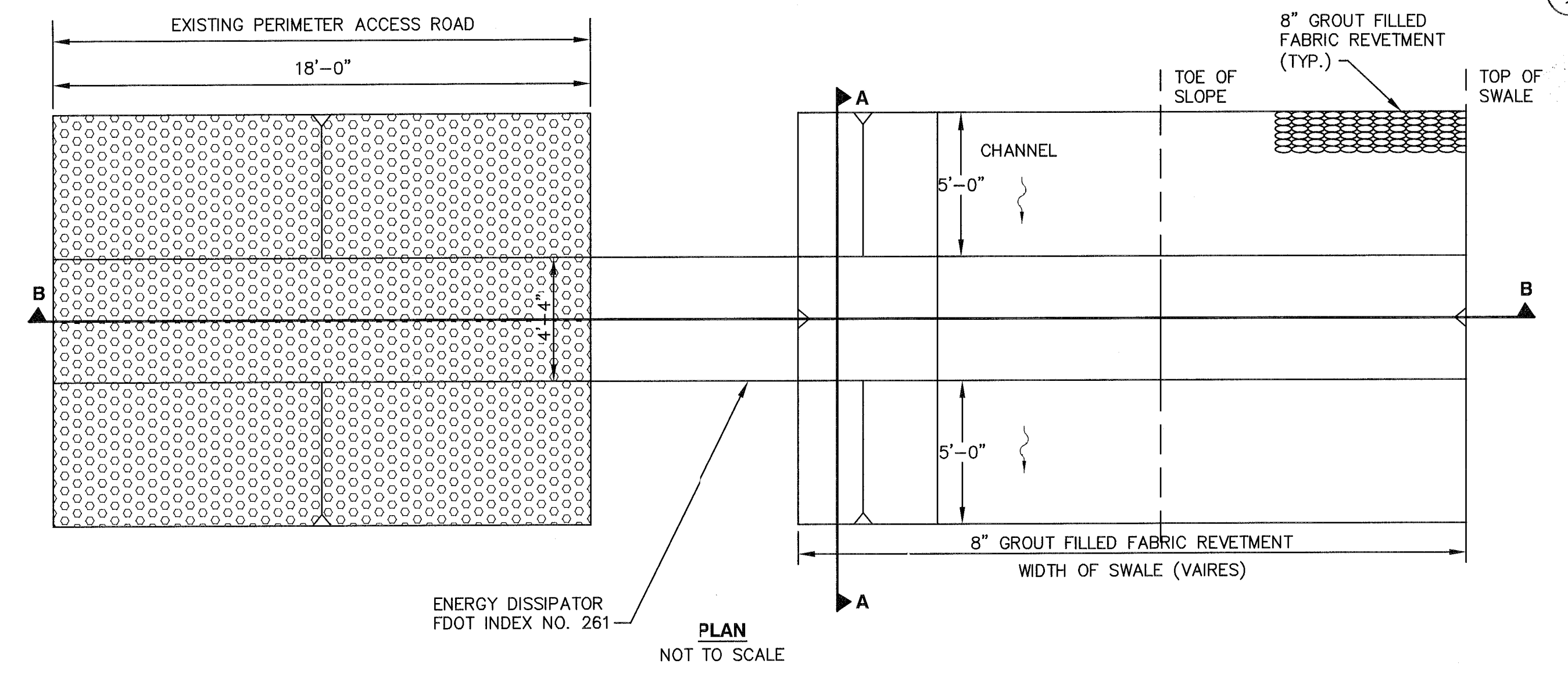
CLIENT: **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 661-0800 FAX 813 666-8757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00048686
 PROJ. NO. 993317
 DWG. NO. 993317/033.17
 DATE: APR 30 2009
 SOUTH WEST DISTRICT TAMPA
 CEH
 CEH
 CEH
 CEH

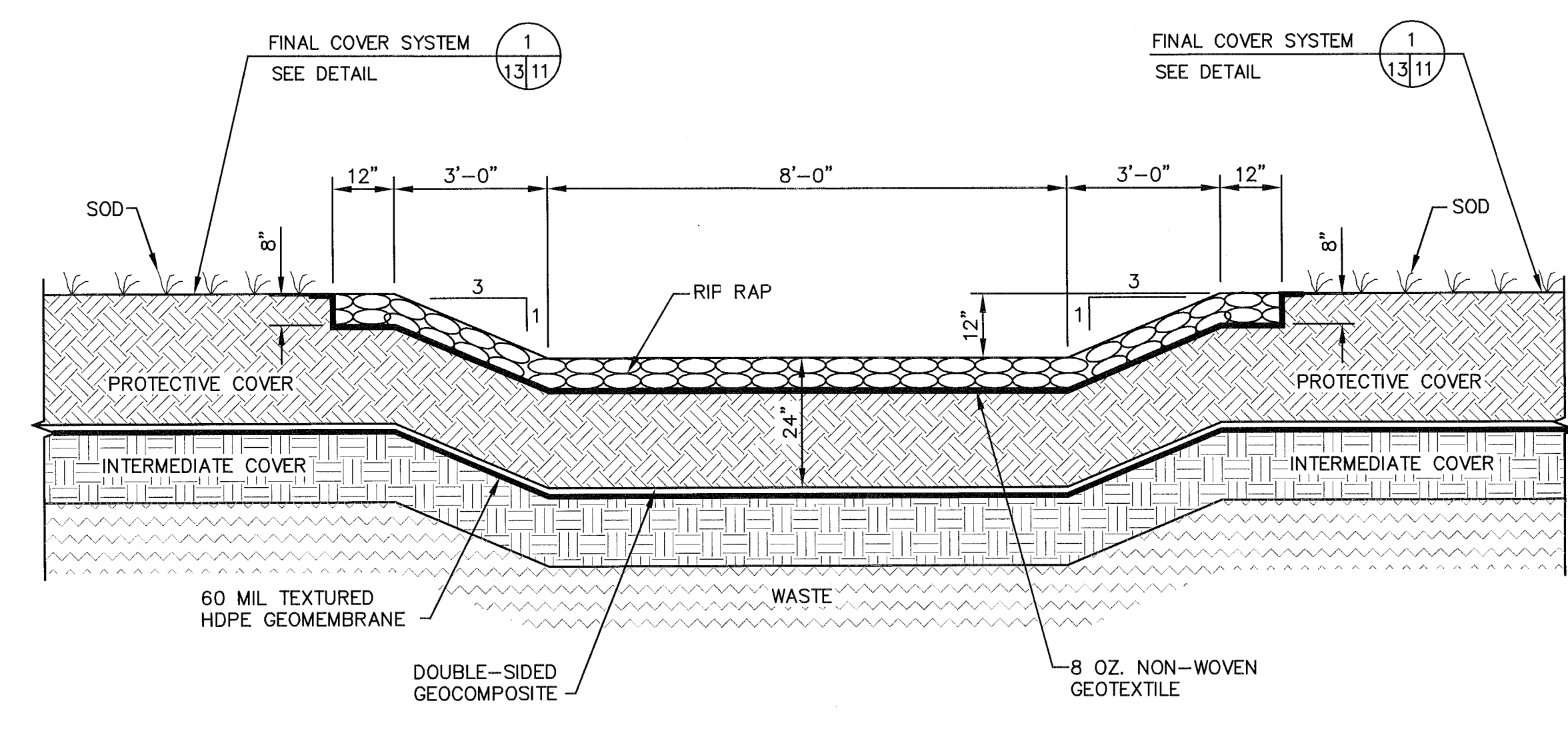
CADD FILE: 993317DETAILS
 DATE: APRIL 2009
 SCALE: AS SHOWN
 DRAWING NO. **13** of 16



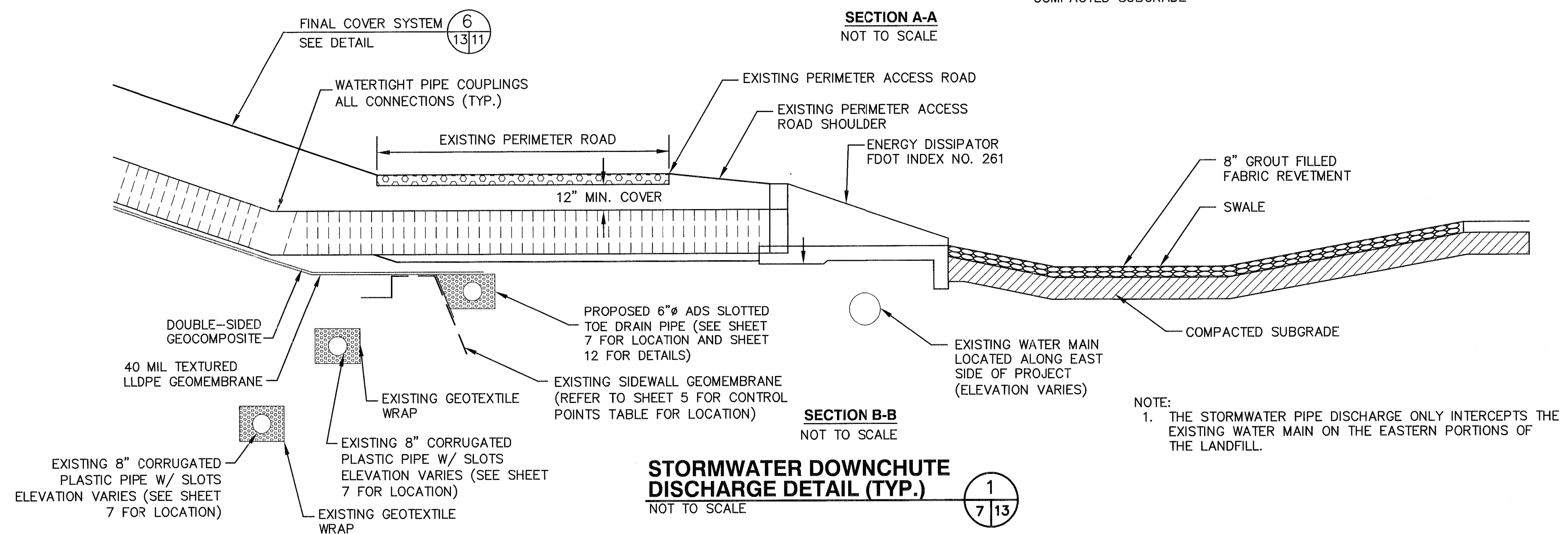
TYPICAL FLOW LINE OF STORMWATER TERRACE SWALE DETAIL 3
 NOT TO SCALE



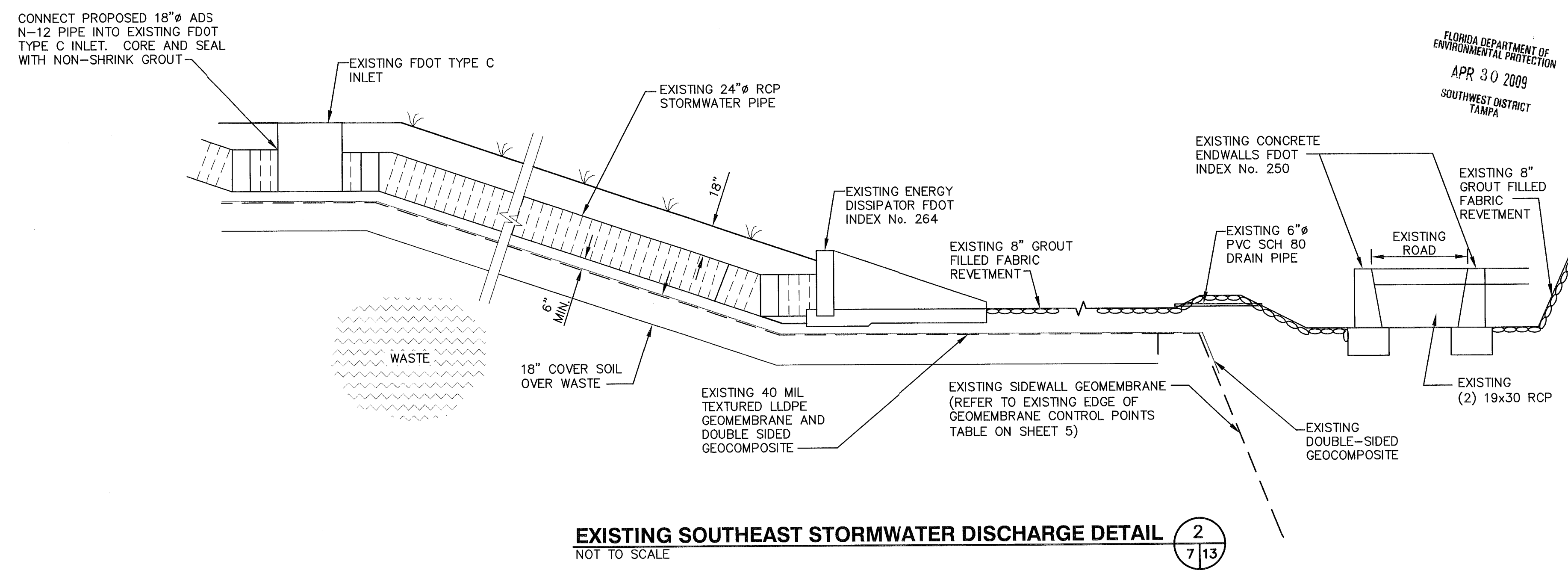
SECTION A-A
 NOT TO SCALE



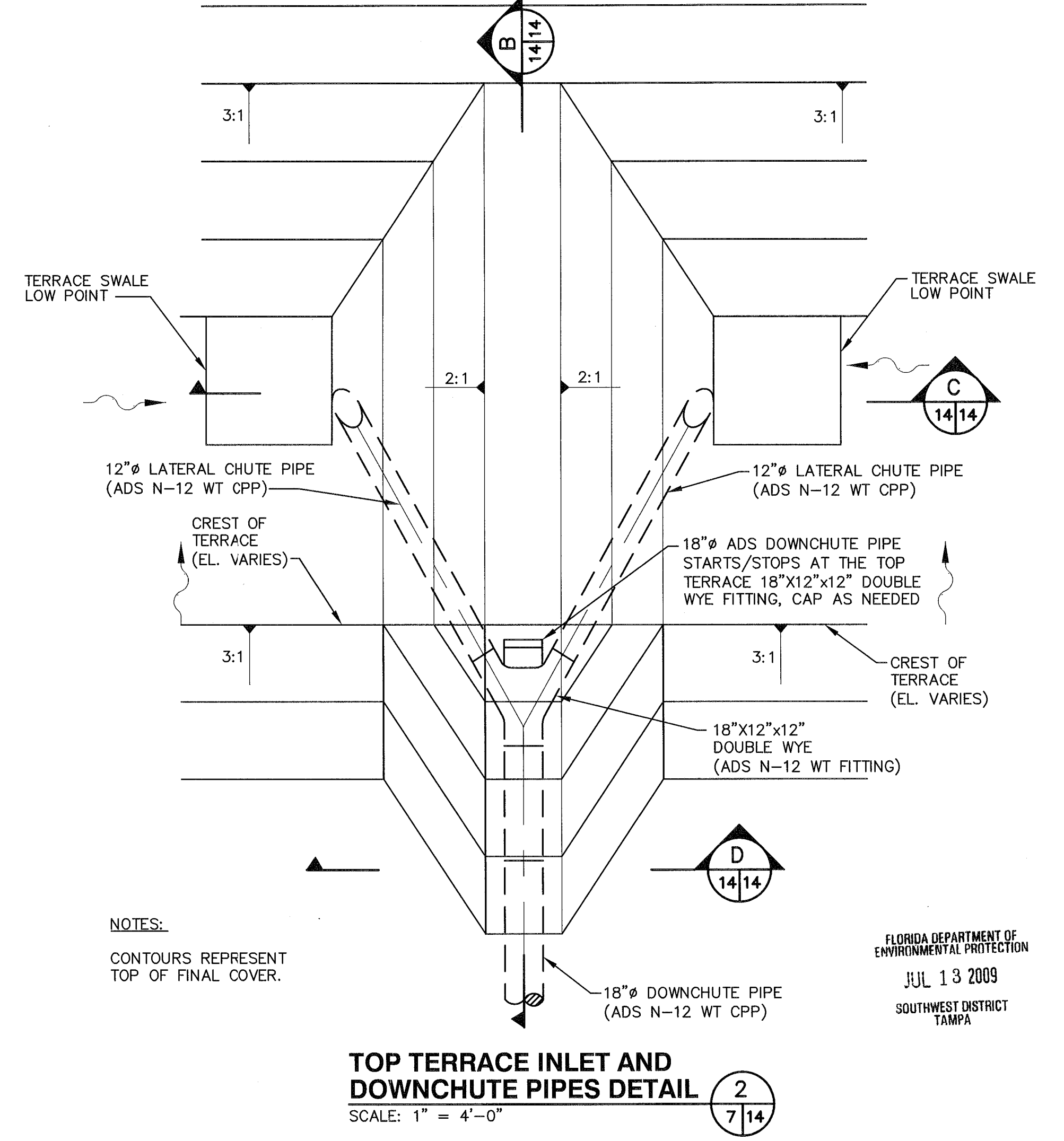
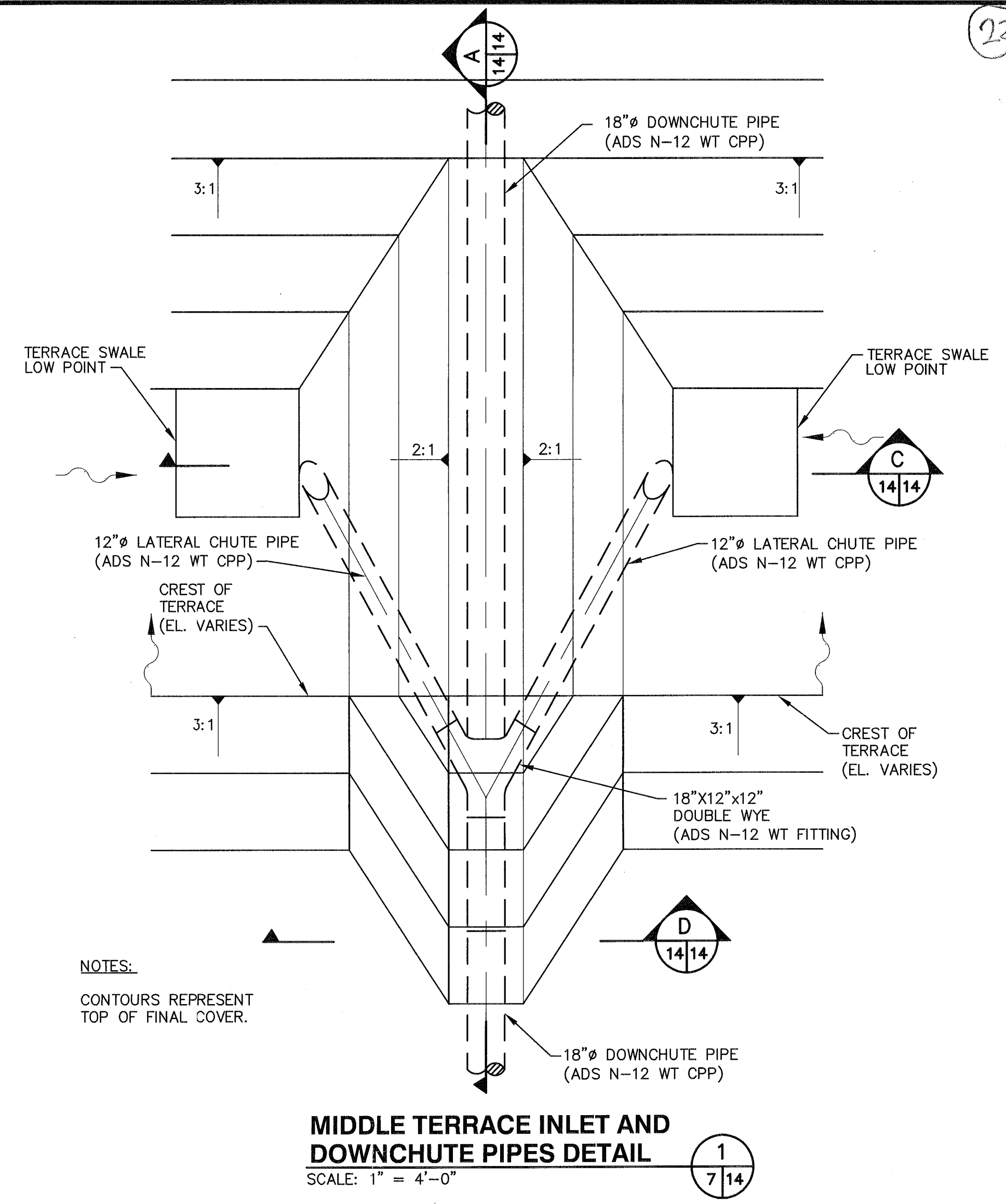
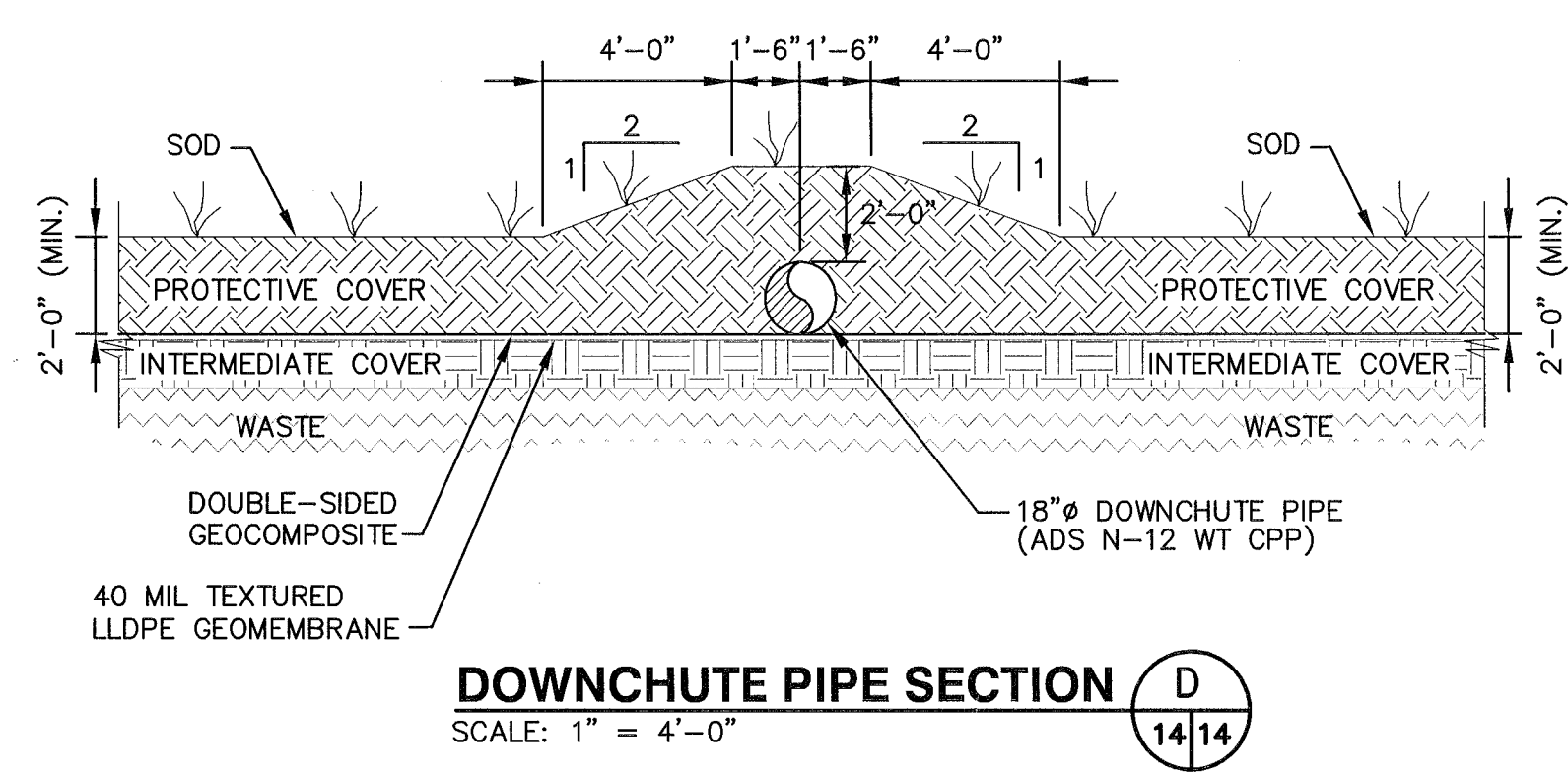
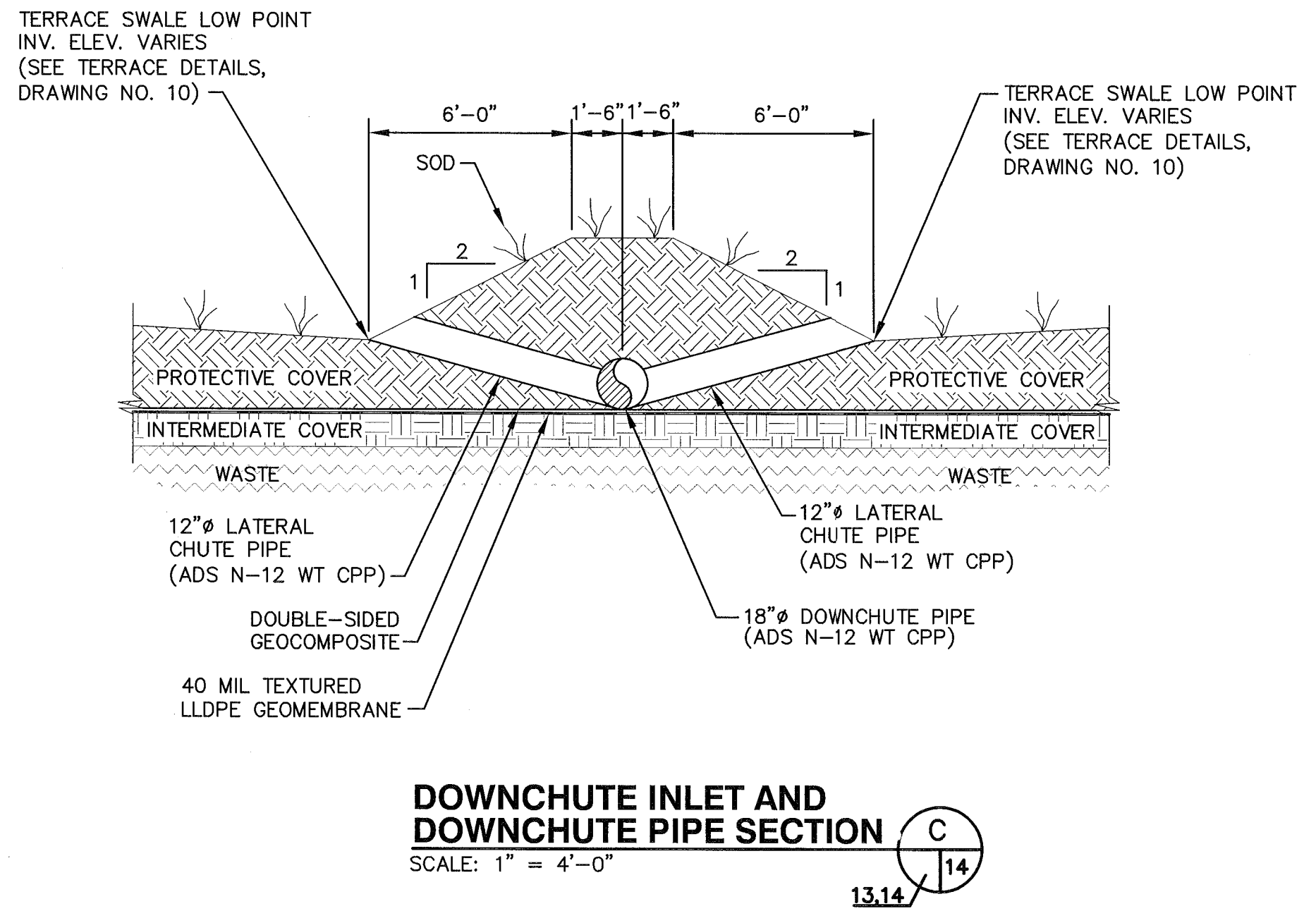
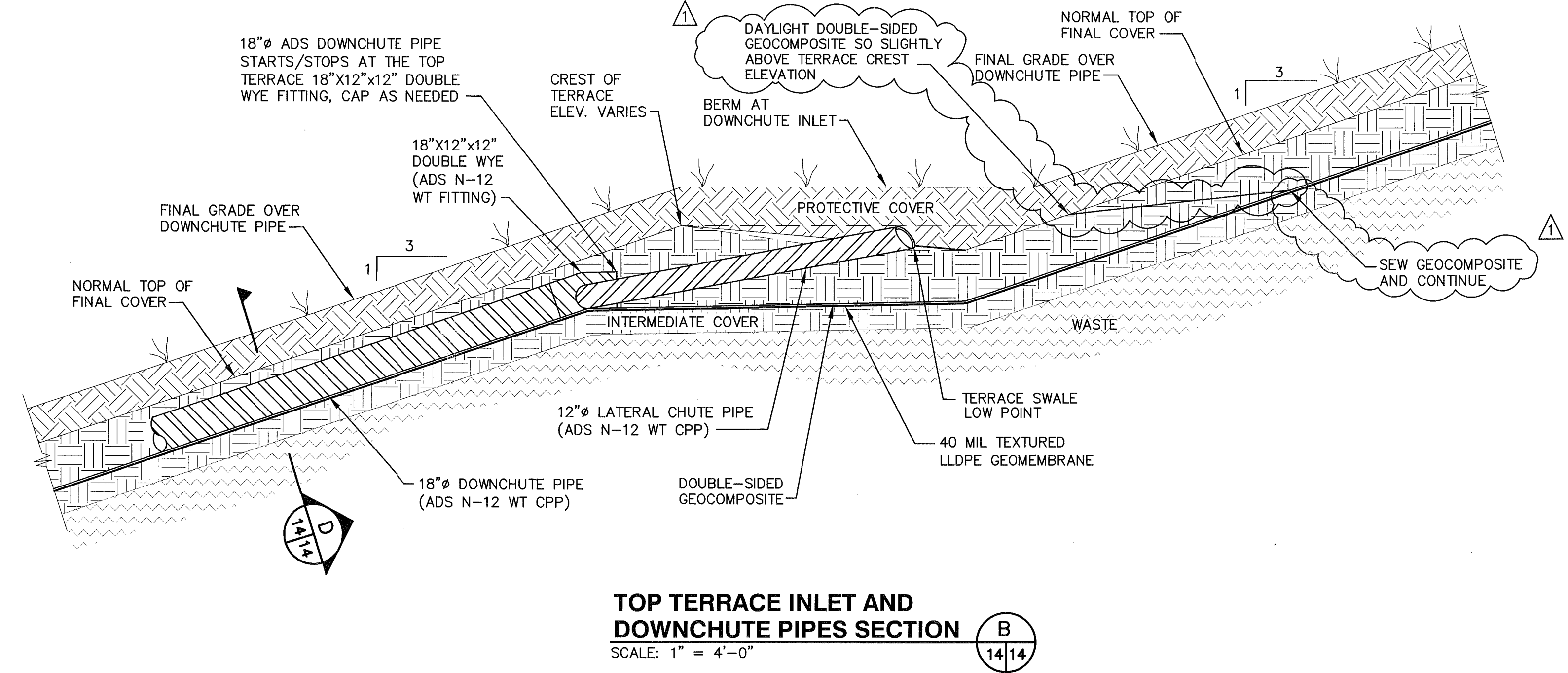
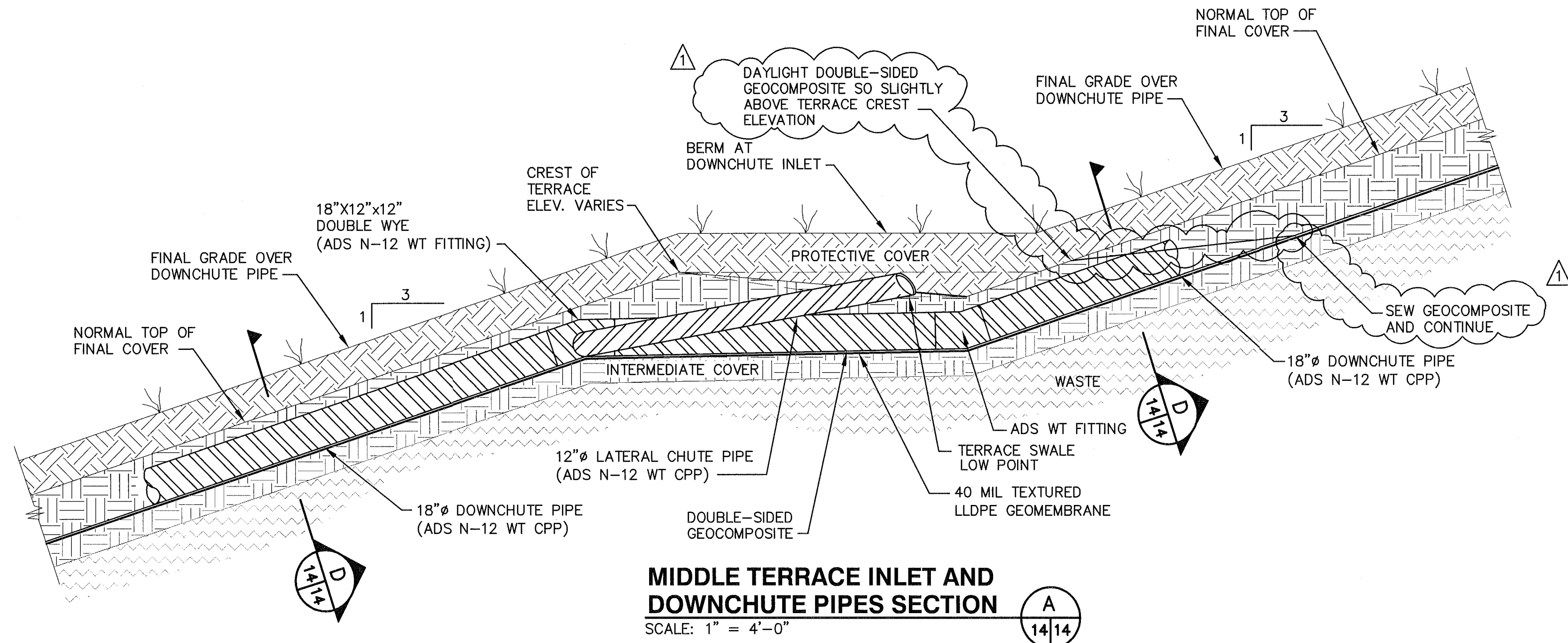
TEMPORARY WESTERN STORMWATER FLUME DETAIL 4
 SCALE: 1" = 2'-0"



STORMWATER DOWNCHUTE DISCHARGE DETAIL (TYP.) 1
 NOT TO SCALE



EXISTING SOUTHEAST STORMWATER DISCHARGE DETAIL 2
 NOT TO SCALE



REV	DATE	DESCRIPTION
1	07/13/09	REVISED PER FDEP RAI NO. 1

DETAILS - 5

DRAWING TITLE: HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

CUSTOMER: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
STEARN, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 821-0080 FAX 813 823-6767
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
PROJ. NO. 08199033.17
DATE: 07/13/09
BY: SRP
CHK: CEH
APP: CEH
DWG/SRF

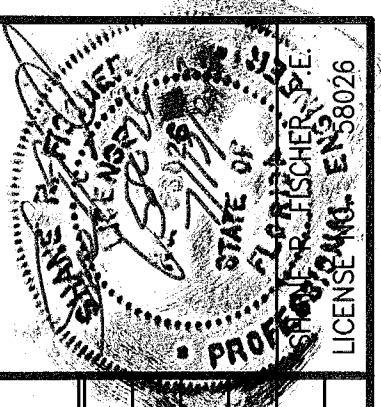
CADD FILE: 993317DETAILS

DATE: APRIL 2009

SCALE: AS SHOWN

DRAWING NO. 14 of 16

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JUL 13 2009
SOUTHWEST DISTRICT TAMPA



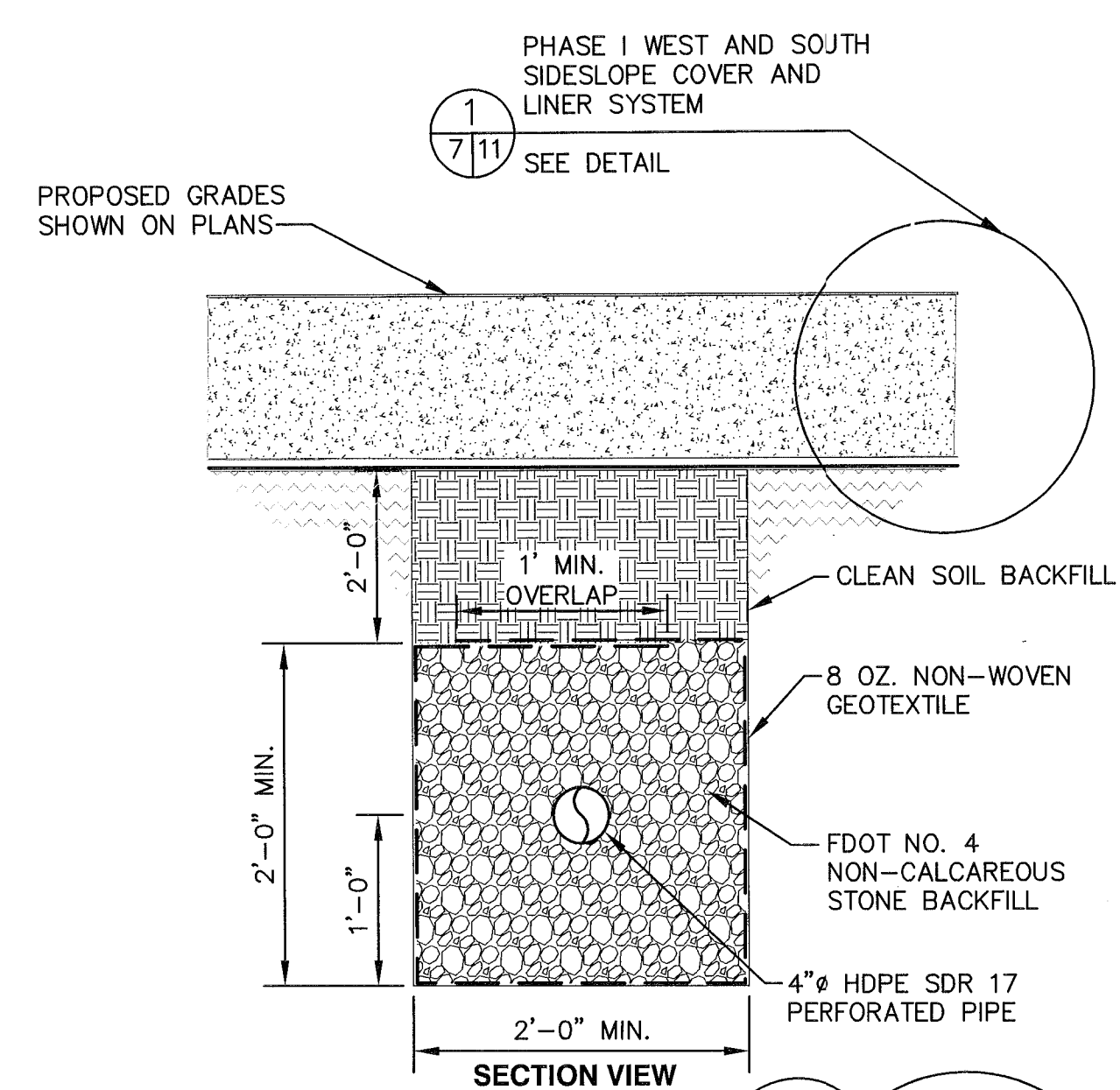
REV	DATE	DESCRIPTION
1	07/13/09	REVISED PER DEP. RAI NO. 1

BY: SRF
 PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS
 DRAWING TITLE: DETAILS-6

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

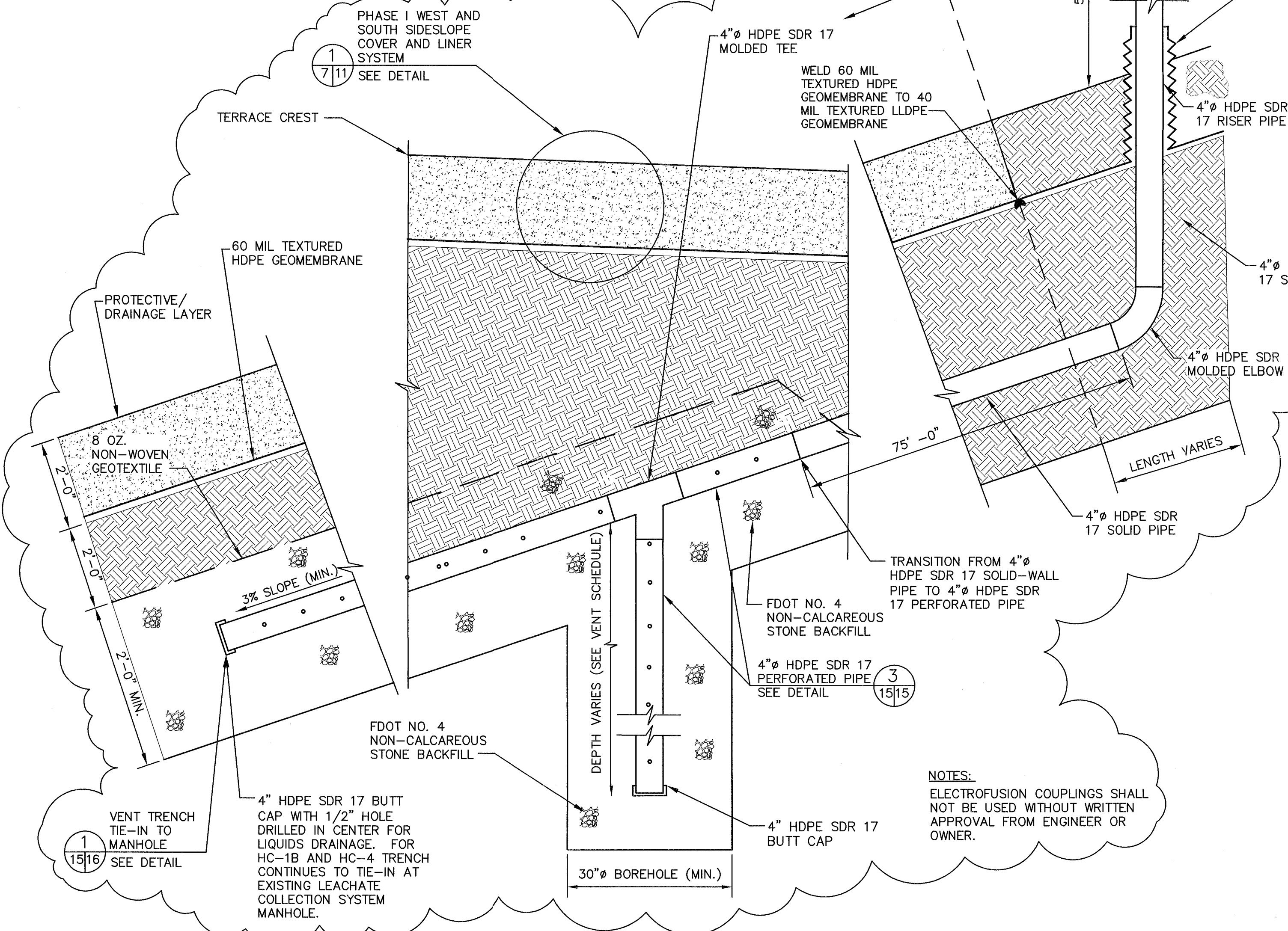
SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 1400 N. W. 13th Ave., Suite 100
 TAMPA, FL 33610
 PHONE: 813-281-1111
 FAX: 813-281-1112
 LICENSE NO. 081990333.17
 DATE: 07/13/09
 DRAWN BY: VKF
 CHECKED BY: LEK
 APP. BY: RUD

CADD FILE: 993317LFGDET1
 DATE: APRIL 2009
 SCALE: NOT TO SCALE
 DRAWING NO. 15 of 16



SECTION VIEW

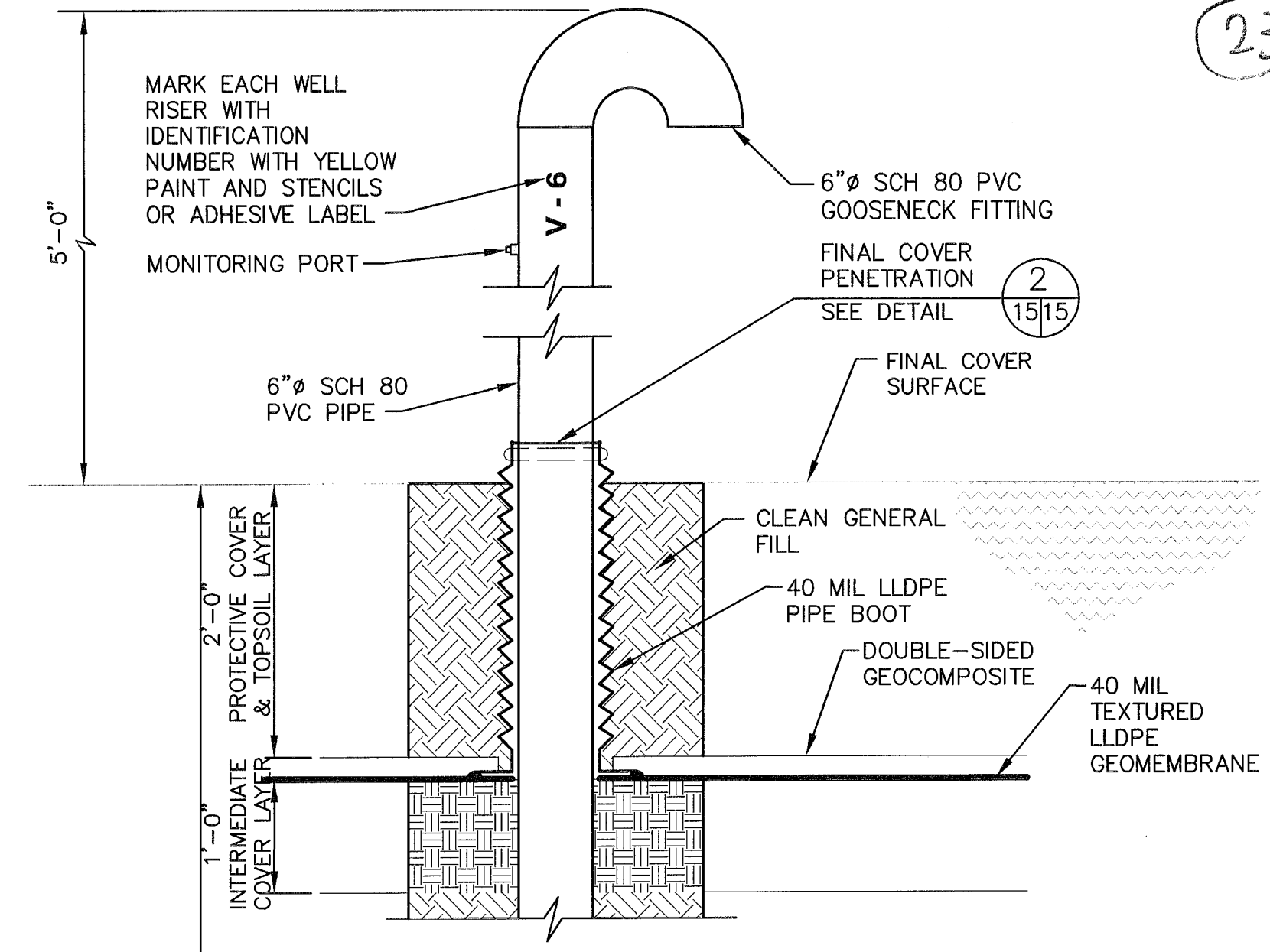
PHASE I WEST AND SOUTH SIDESLOPE COVER AND LINER SYSTEM
 SEE DETAIL



HORIZONTAL LANDFILL GAS (LFG) VENT TRENCH DETAIL (TYP.)
 NOT TO SCALE

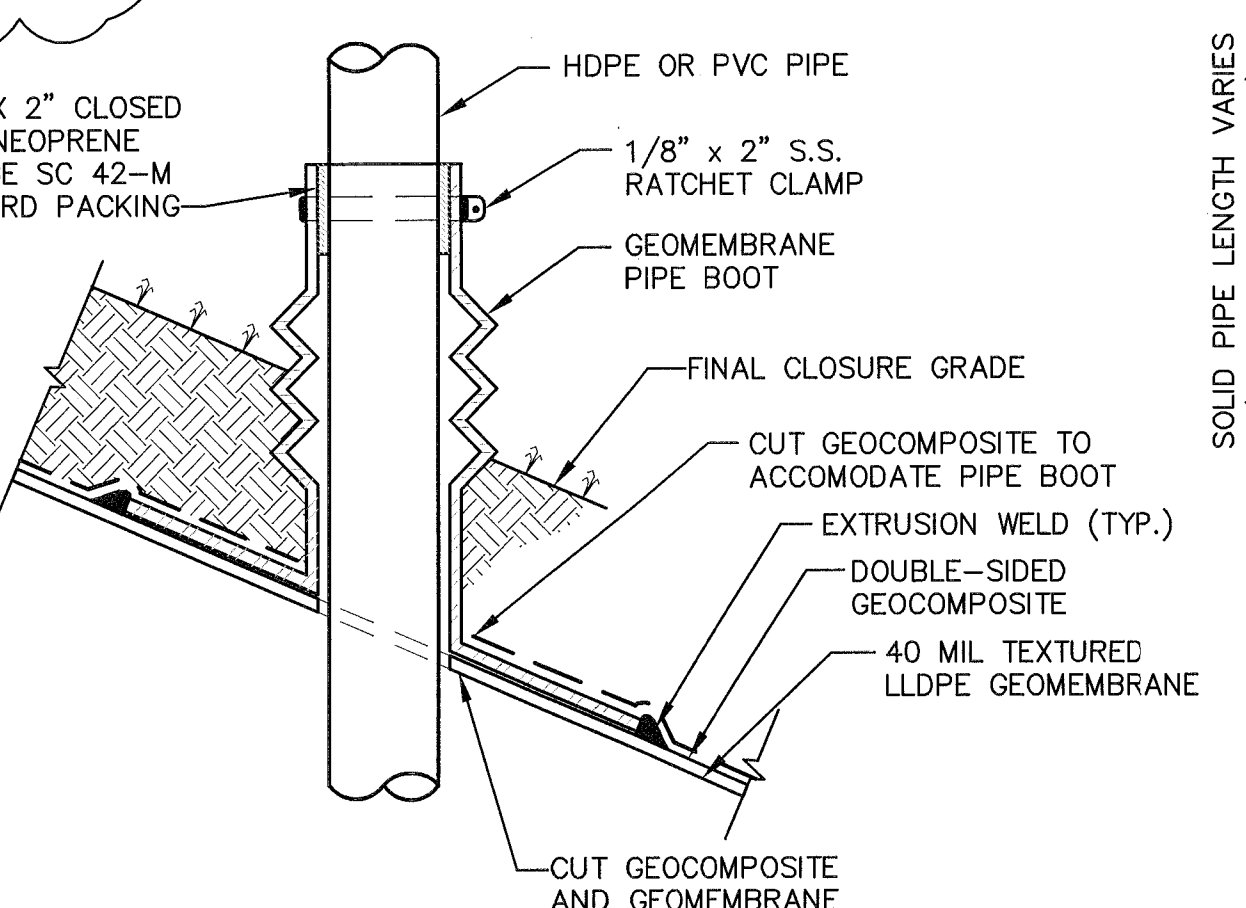
5
 8/15

NOTES:
 ELECTROFUSION COUPLINGS SHALL NOT BE USED WITHOUT WRITTEN APPROVAL FROM ENGINEER OR OWNER.



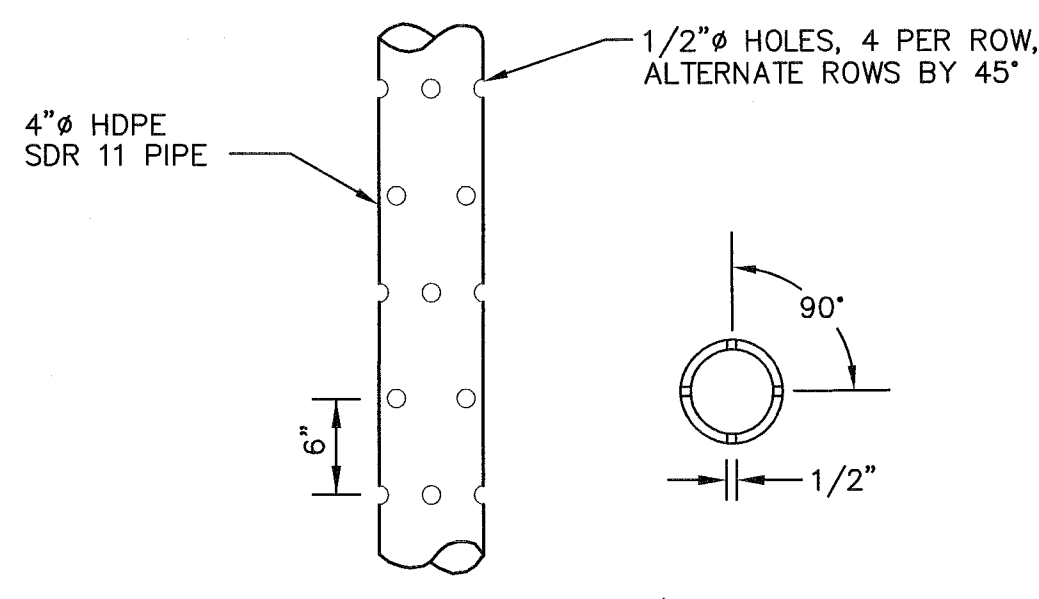
VERTICAL LANDFILL GAS (LFG) VENT DETAIL (TYP.)
 NOT TO SCALE

1
 8/15



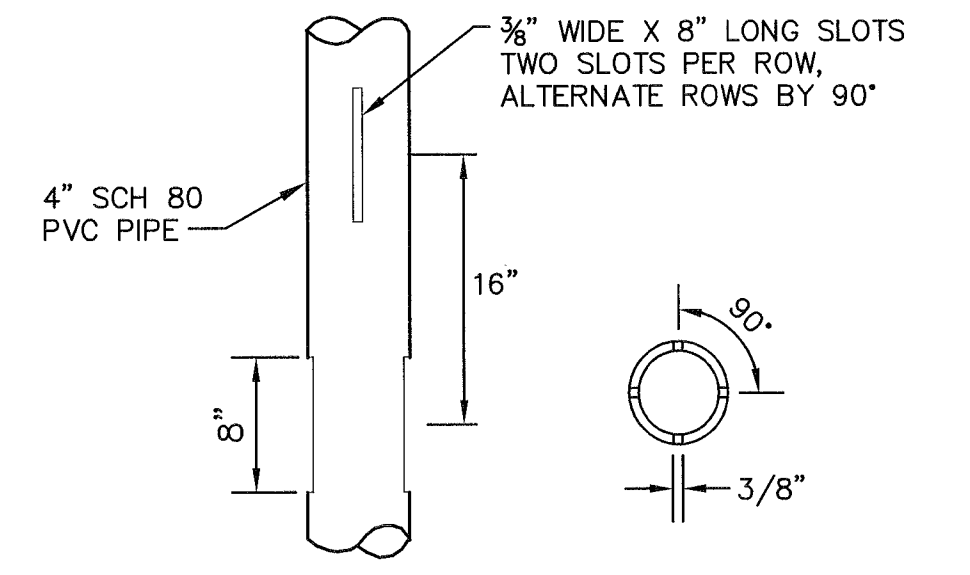
FINAL COVER PENETRATION DETAIL
 NOT TO SCALE

2
 15/15



PERFORATED PIPE DETAIL
 NOT TO SCALE

3
 15, 16/15



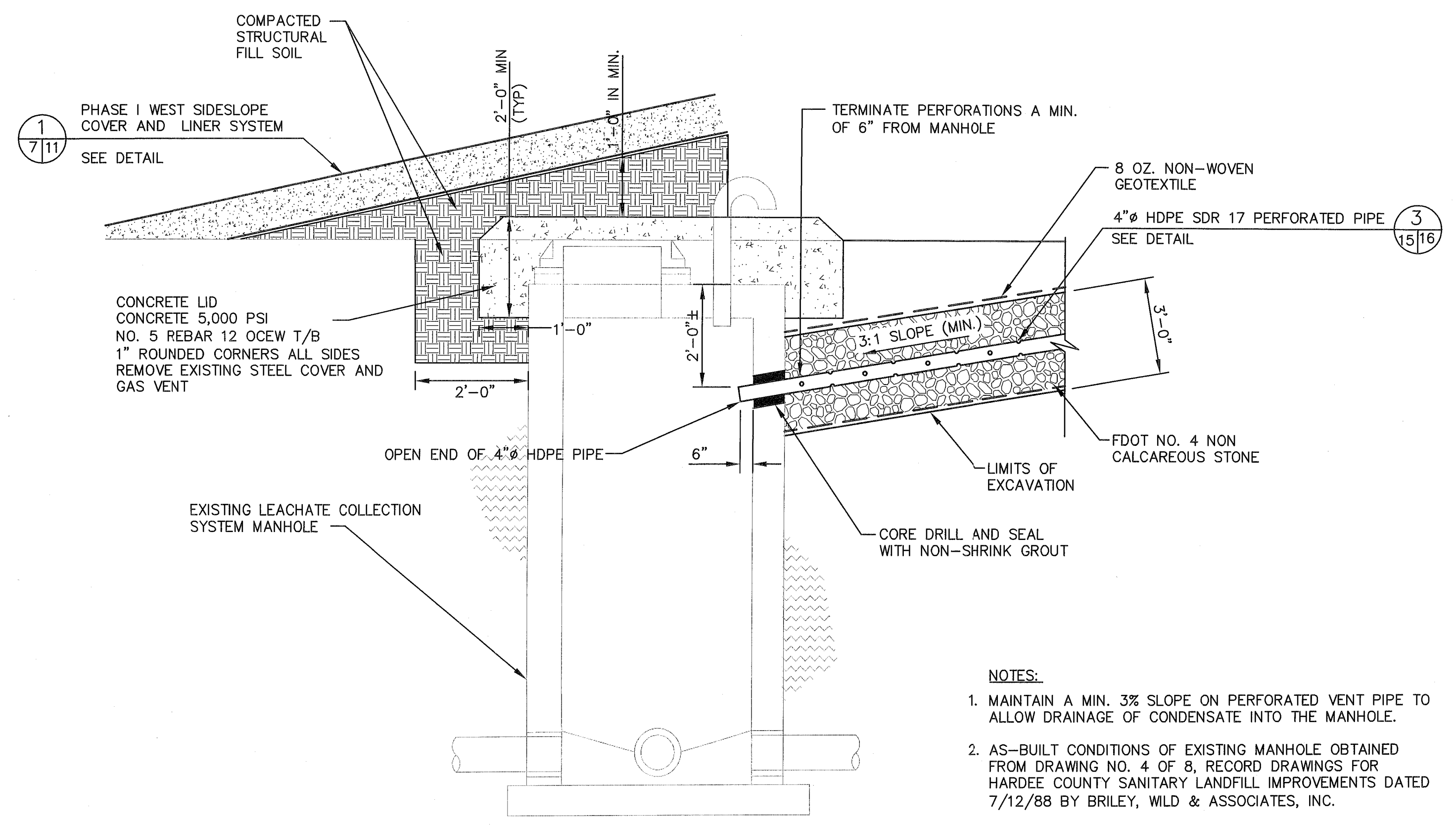
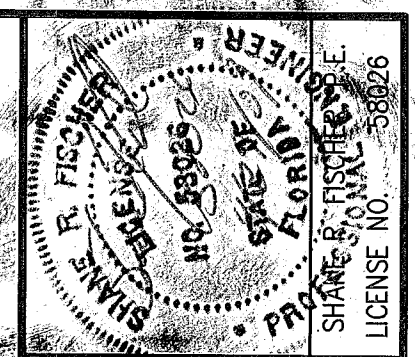
SLOTTED PIPE DETAIL
 NOT TO SCALE

4
 15/15

- NOTES:
1. WELL BOREHOLES SHALL TERMINATE A MINIMUM OF 15 FEET ABOVE THE BOTTOM OF REFUSE TO PROVIDE BUFFER FROM THE BOTTOM LINER SYSTEM AND LEACHATE COLLECTION SYSTEM.
 2. DRILLER SHALL LOG REFUSE DESCRIPTION, TEMPERATURE, APPROX. MOISTURE CONTENT, PRESENCE OF LIQUID AND DEGREE OF DECOMPOSITION AT 10-FT. INTERVALS.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 JUL 13 2009
 SOUTHWEST DISTRICT TAMPA

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- NOTES:**
1. MAINTAIN A MIN. 3% SLOPE ON PERFORATED VENT PIPE TO ALLOW DRAINAGE OF CONDENSATE INTO THE MANHOLE.
 2. AS-BUILT CONDITIONS OF EXISTING MANHOLE OBTAINED FROM DRAWING NO. 4 OF 8, RECORD DRAWINGS FOR HARDEE COUNTY SANITARY LANDFILL IMPROVEMENTS DATED 7/12/88 BY BRILEY, WLD & ASSOCIATES, INC.

VENT TRENCH TIE-IN TO MANHOLE DETAIL
 NOT TO SCALE

REV	DATE	DESCRIPTION
1	7/11	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

DRAWING TITLE DETAILS - 7
PROJECT TITLE HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

CLIENT
 HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 3912 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619
 PH (813) 821-0880 FAX NO. (813) 823-4757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
 09199033.17
 DES. BY: VKF
 CHK. BY: VKF
 IN CH. BY: VKF
 O/A BY: LEK
 APP. BY: RJD

CADD FILE: 993317LFGDET
DATE: APRIL 2009
SCALE: NOT TO SCALE
DRAWING NO.:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 APR 30 2009
 SOUTHWEST DISTRICT TAMPA

25

25

Dept. of Corrections
APR 3 0 2009
Southwest District

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