Environmental Consultants
and Contractors

4041 Park Oaks Blvd.
Suite 100
Tampa, FL 33610-9501

813 621-0080
FAX 813 623-6757
www.scsengineers.com

SCS ENGINEERS

Dept. Of Environmental Protection
OCT 08 2010
Southwest District

October 5, 2010
File No. 09199033.21

Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Hardee County Class I Landfill
Phase I Closure Construction
Permit Number 38414-012-SF/01
Construction Drawings, Specifications and CQA Plan

Dear Susan:

In accordance with Specific Condition B.4.a.1 of Construction Permit Number 38414-012-SF/01 for the Hardee County Class I Landfill Phase I Closure Construction, and on behalf of the Hardee County Board of County Commissioners, SCS Engineers (SCS) is notifying the Florida Department of Environmental Protection (FDEP) regarding changes to the Construction Drawings, Specifications and CQA Plan. Please find attached a list of revisions made to the Permit Drawings to create the Conformed Construction Drawings. No technical changes have been made to the Permit Drawings. The Permit Drawings have been renumbered to remove the letter extensions (i.e., 4a to 4, 4b to 5, 7c to 14, etc.) on the Conformed Construction Drawings. Therefore, the Conformed Construction Drawings indicate 24 Drawings total (as in the Permit Drawings). No Drawings have been added or removed; there has always been 24 Drawings. In addition, please find attached two original sets of the Conformed Construction Drawings with the above-mentioned revisions regarding renumbering.

No changes have been made to the permitted specifications or CQA Plan, therefore, re-submittal of these documents is not required prior to construction of the above-referenced project.

Please do not hesitate to call should you have any questions or require additional information.

Sincerely,

Shane R. Fischer, P.E.
Project Manager
SCS ENGINEERS

Ed Hilton

C. Ed Hilton, P.E.
Vice President
SCS ENGINEERS

SRF/CEH:srf

cc: Teresa Carver, Hardee County Solid Waste Director

HARDEE COUNTY DETAIL REFERENCE
BETWEEN CONFORMED DOCUMENTS AND PERMIT DOCUMENTS

Permit Sheet #		Conformed Sheet #		Revisions/Comments
1		1		Renumbered the Drawings to remove the letter extensions (i.e., 4a to 4, 4b to 5, 7c to 14, etc.). No Drawings were added or removed from the set, there has always been 24 Drawings.
2		2		Revised the title block to indicate 24 Drawings in the set due to renumbering.
3		3		Revised the title block to indicate 24 Drawings in the set due to renumbering.
4a		4		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
4b		5		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
5		6		Revised the title block to indicate 24 Drawings in the set due to renumbering. Added erosion and sedimentation control.
6		7		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
6a		8		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
6b		9		Revised the title block to indicate 24 Drawings in the set due to renumbering.
7		10		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
9		11		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
7a		12		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
7b		13		Revised the title block to indicate 24 Drawings in the set due to renumbering.
7c		14		Revised the title block to indicate 24 Drawings in the set due to renumbering.

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

OCT 08 2010

SOUTHWEST DISTRICT
TAMPA

HARDEE COUNTY DETAIL REFERENCE
BETWEEN CONFORMED DOCUMENTS AND PERMIT DOCUMENTS

Permit Sheet #		Conformed Sheet #		Revisions/Comments
7d		15		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
7e		16		Revised the title block to indicate 24 Drawings in the set due to renumbering.
8		17		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
15		18		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
16		19		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
10		20		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
11		21		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
12		22		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
13		23		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.
14		24		Revised the title block to indicate 24 Drawings in the set due to renumbering. Revised callouts to indicate the correct Drawing due to renumbering.

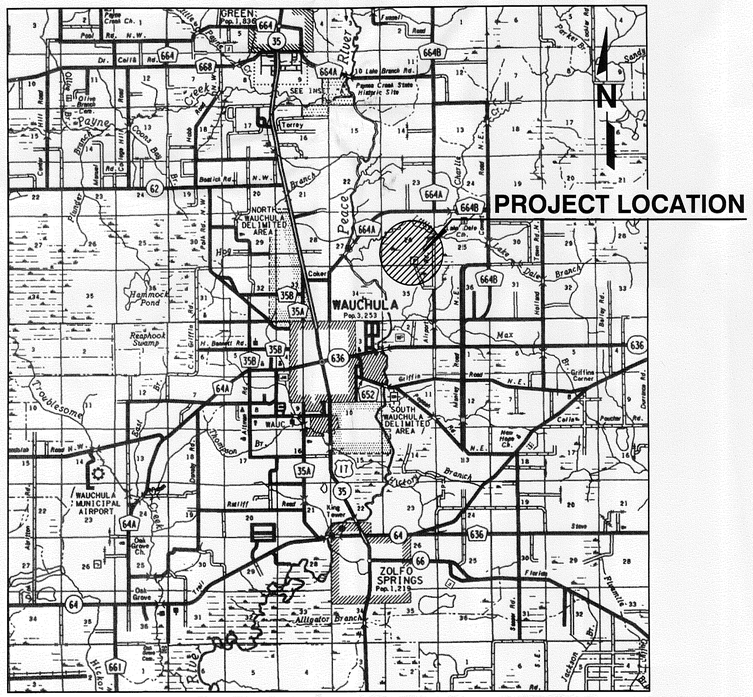
HARDEE COUNTY LANDFILL
PHASE I CLOSURE
CONSTRUCTION DRAWINGS

PREPARED FOR

BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY, FLORIDA

JUNE 2010

Dept. Of Environmental Protection
OCT 08 2010
Southwest District



LOCATION MAP
NOT TO SCALE

HARDEE COUNTY 19 21 FLORIDA

DRAWING INDEX

DRAWING NO.		DRAWING TITLE
1	-	COVER
2	-	OVERALL AERIAL SITE PLAN (MARCH 2007)
3	-	EXISTING CONDITIONS AERIAL PHOTOGRAPH (06/12/2008)
4	-	EXISTING CONDITIONS TOPOGRAPHIC SURVEY (06/12/2008)
5	-	EXISTING CONDITIONS TOPOGRAPHIC SURVEY (06/12/2008)
6	-	PROJECT AREA EXISTING CONDITIONS SITE PLAN
7	-	TOP OF INTERMEDIATE COVER SITE PLAN
8	-	TOP OF INTERMEDIATE COVER GRADING CONTROL POINTS SITE PLAN
9	-	TOP OF INTERMEDIATE COVER GRADING CONTROL POINTS TABLE
10	-	FINAL CLOSURE SITE PLAN
11	-	FINAL CLOSURE SECTIONS
12	-	TOP OF FINAL CLOSURE GRADING CONTROL POINTS SITE PLAN
13	-	TOP OF FINAL CLOSURE GRADING CONTROL POINTS TABLE - 1
14	-	TOP OF FINAL CLOSURE GRADING CONTROL POINTS TABLE - 2
15	-	TOP OF PERIMETER SWALE GRADING CONTROL POINTS SITE PLAN
16	-	TOP OF PERIMETER SWALE GRADING CONTROL POINTS TABLE
17	-	LFG CONTROL SYSTEM SITE PLAN
18	-	DETAILS - 1
19	-	DETAILS - 2
20	-	DETAILS - 3
21	-	DETAILS - 4
22	-	DETAILS - 5
23	-	DETAILS - 6
24	-	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. 09199033.21

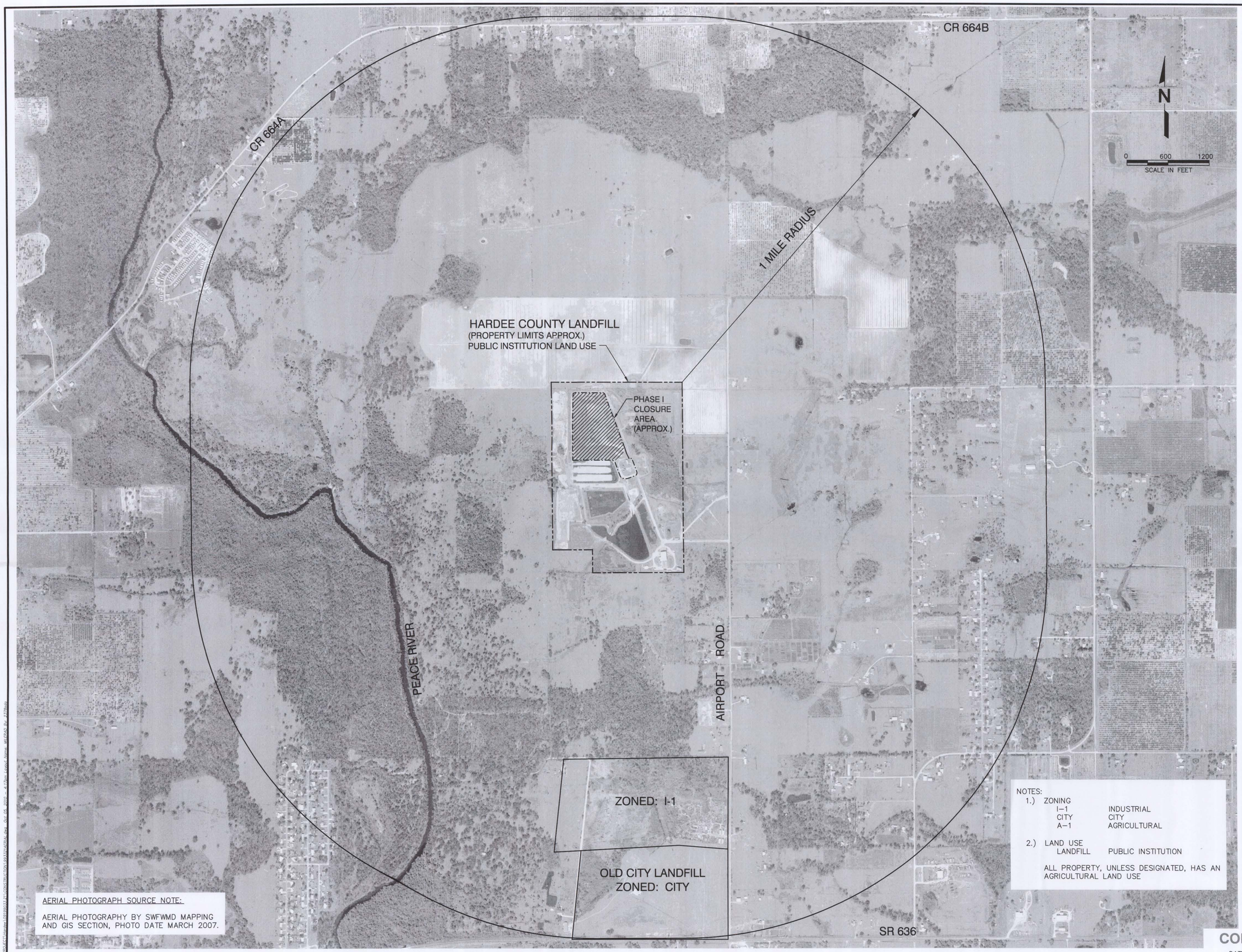
ISSUED FOR BID 08/09/2010

CONFORMED SET

DATE: 10/06/2010

SHANE R. FISCHER, P.E.
FL P.E. NO. 58026

G:\PROJECT\Hardee\09199033.21\CONSTRUCTION\99332\COVER.dwg Oct 05, 2010 - 3:10pm By: 2378sdg



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

CONFORMED
DATE: 10/06/2010

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

SHARON R. FISCHER, P.E.
LICENSE NO. 58026

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
401 PARK OAKS BLVD., SUITE 150, TAMPA, FL 33610
813 621-0080 FAX 813 925-5757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO: 09199033.21
DSN. BY: SRF
DWN. BY: CTN/SDA
CHK. BY: SRF
QA/A. RVW. BY: CEH
APP. BY: SRF

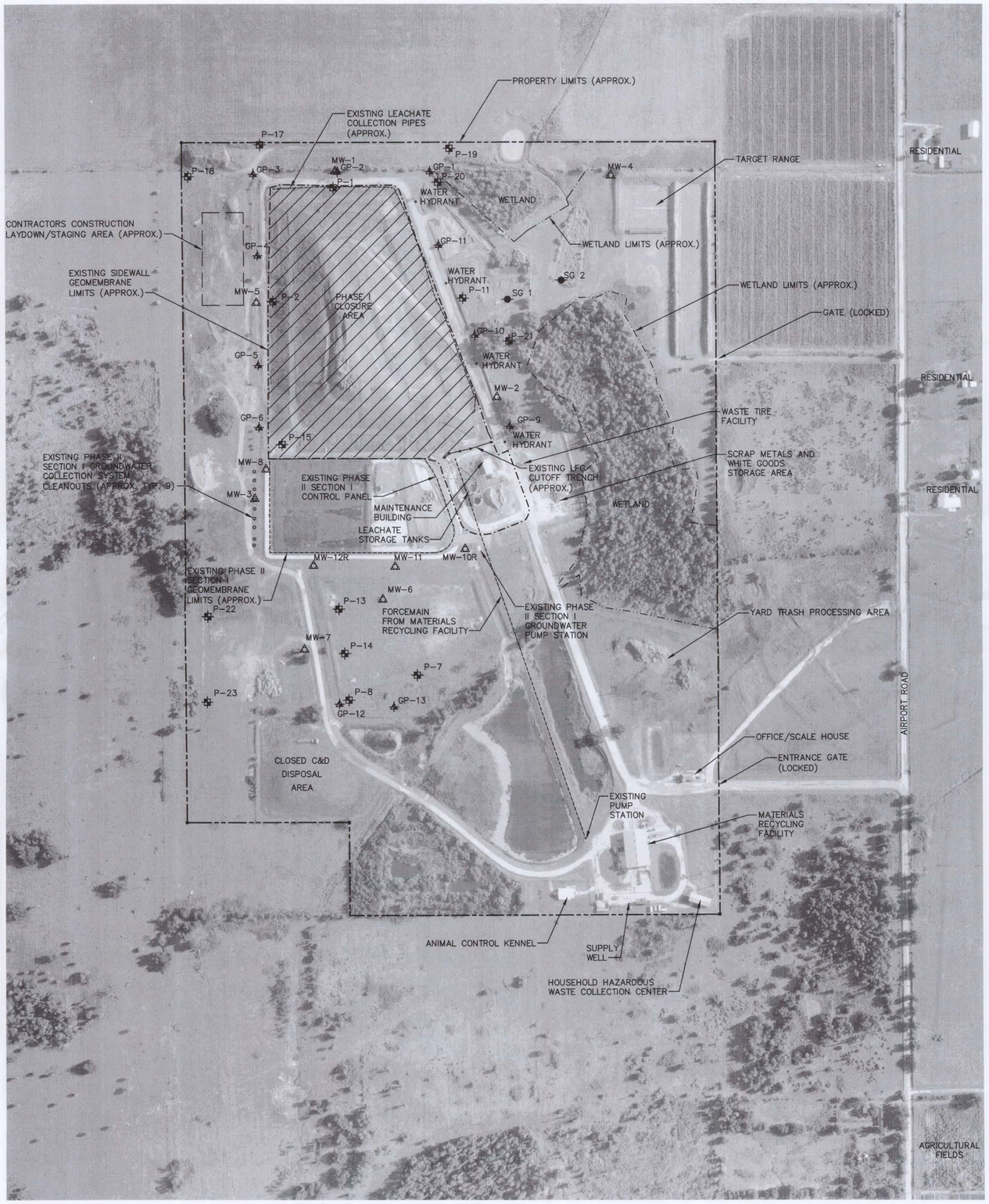
CADD FILE: 993321AERIAL
DATE: JUNE 2010
SCALE: AS SHOWN
DRAWING NO. 2 of 24

MONITORING WELL POINT TABLE		
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

GAS PROBE POINT TABLE		
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

PIEZOMETER POINT TABLE		
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

STAFF GAUGE POINT TABLE		
POINT NUMBER	NORTHING	EASTING
SG 1	1177149.111	727100.065
SG 2	1177217.671	727292.17



N

200 100 0 200

SCALE IN FEET

LEGEND

- MW-7 — EXISTING GROUNDWATER MONITORING WELL
- GP-6 — EXISTING GAS MONITORING PROBE
- P-15 — EXISTING PIEZOMETER
- EXISTING MANHOLE
- SG-2 — EXISTING STAFF GUAGE
- 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 PHASE I CLOSURE AREA

NOTE:

1. 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.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

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.

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

DRAWING TITLE: EXISTING CONDITIONS AERIAL PHOTOGRAPH (06/12/2008)

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 MACDILL AVE, SUITE 100, TAMPA, FL 33610
813.621.0080 FAX 813.623.6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO: 09199033.21 | DWN: BY: CTN/SDA | CHK: BY: SRF | QA/A. R'VW. BY: CEH | APP: BY: SRF | DSN: BY: SRF

CADD FILE: 993321AERIAL

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. 3 of 24

FND 4"X4" CM
N 1177605.9419
E 725850.9459

SE CORNER, SE¼
SEC. 26–33–25

NE CORNER, NE¼
SEC. 35–33–25

81.92'

N00°23'39"W
100.00'

REC IR&C
CSI

N89°55'46"E
1909.77'

N89°55'46"E
2323.42'

100.00'
N00°17'41"W

663.84'

FND 4"X4" CM

#1
E 725944.18
N 1177595.96
EL 84.05

N 1177500

N 1177000

N 1176500

E 726000

E 726500

E 727000

E 727500

E 728000

PHASE I

PHASE II SECTION I

GUN RANGE

DENSE

W.E. 78.1

MW-9

TANK

2416.76'

2317.86'(D)

2316.76'(C&F)

2316.45'

N00°23'19"W

N00°23'19"W

2745.00'

2645.00'

S00°17'41"E

#5
E 727169.09
N 1176229.17
EL 83.10

MATCH LINE (SEE DRAWING NO. 5)

N

80 40 0 80
SCALE IN FEET

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

- CONTROL
- UTILITY POLE
- LIGHT POLE
- TRAFFIC LIGHT
- SIGN
- POST
- 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
- ×120.1 SPOT ELEVATION
- ×120.1 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.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

STATE OF FLORIDA — STEVEN R. FISCHER — 58026 — P.E. — LICENSE NO.

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
400 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
813-621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.21 | DWN. BY: CTN/SDA | D/A RVW. BY: CEH | DSNR. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993321EXIST

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. 4 of 24

Q:\HRD_EGI\Hardee\09199033.21\CONSTRUCTION\09199033EXIST.dwg, Oct 06, 2010 - 4:39pm, Lloyd Turner, Fishkin North Rx, XREFs:

PHASE II SECTION I

MATCH LINE (SEE DRAWING NO. 4)

#5
E 727169.09
N 1176229.17
EL 83.10

2316.76'(C&F)
N00°23'19"W
N00°23'19"W
2645.00'
S00°17'41"E

N 1176500
N 1176000
N 1175500
N 1175000
E 726500
E 727000
E 727500
E 728000

250.00'
N89°51'29"E
331.11'
581.11'
REC IR&C CSI
FND 4"X4" CM
FND 4"X4" CM
330.86'
N00°22'27"W
S89°50'53"W
1323.99'
SET IR&C CSI
FND 4"X4" CM

N

80 40 0 80
SCALE IN FEET

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

- CONTROL
- UTILITY POLE
- LIGHT POLE
- TRAFFIC LIGHT
- SIGN
- POST
- 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
- × 120.1 SPOT ELEVATION
- × 120.1 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.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

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

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
813.621-0080 FAX 813.622-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.21 | DWN: BY: CTN/SDA | D/A RVW BY: CEH
DSN: BY: SRF | CHK: BY: SRF | APP: BY: SRF

CADD FILE: 993321EXIST
DATE: JUNE 2010
SCALE: AS SHOWN
DRAWING NO. 5 of 24

PROPERTY LIMITS (APPROX.)

EXISTING LEACHATE COLLECTION LINES (8" CORRUGATED PLASTIC PIPE TYPICAL)

EXISTING SIDEWALL GEOMEMBRANE LIMITS (REFER TO EXISTING EDGE OF GEOMEMBRANE CONTROL POINTS TABLE)

MANHOLE #4
RIM EL. = 85.44
BOT. EL. = 80.34

MANHOLE #3
RIM EL. = 84.86
BOT. EL. = 79.15

EXISTING FENCELINE (TYP.)

WATER HYDRANT (TYP. OF 4)

DENSE
WETLAND AREA 2

HAY BALES OR SILT FENCE (TYP.) 2,3 / 6|19 SEE DETAIL

WETLAND LIMITS (TYP.)

EXISTING SIDEWALL GEOMEMBRANE LIMITS (REFER TO EXISTING EDGE OF GEOMEMBRANE CONTROL POINTS TABLE)

CONTRACTORS CONSTRUCTION LAYDOWN/STAGING AREA (APPROX.)

EXISTING LEACHATE COLLECTION LINES (8" CORRUGATED PLASTIC PIPE TYPICAL)

MANHOLE #2
RIM EL. = 86.07
BOT. EL. = 78.54

WATER HYDRANT

SILT FENCE (TYP.) 2 / 6|19 SEE DETAIL

MANHOLE #5
RIM EL. = 86.47
BOT. EL. = 79.42

EXISTING 30" CMP

PROPERTY LIMITS (APPROX.)

EXISTING WEIR

SILT FENCE (TYP.) 2 / 6|19 SEE DETAIL

WATER LINE

EXISTING 20"X30" RCP

EXISTING WATER MAIN (ELEVATION VARIES)

WATER HYDRANT

HAY BALES OR SILT FENCE (TYP.) 2,3 / 6|19 SEE DETAIL

DENSE
WETLAND AREA 1

EXISTING FDOT TYPE C INLET AND DOWNCHUTE PIPE (PROTECT FROM DAMAGE DURING CONSTRUCTION)

MANHOLE #1
RIM EL. = 84.67
BOT. EL. = 77.65

EXISTING 40 MIL TEXTURED LLDPE GEOMEMBRANE LIMITS (PROTECT FROM DAMAGE DURING CONSTRUCTION)

EXISTING 20"X30" RCP WITH GFFR DISCHARGE

WATER HYDRANT

EXISTING GFFR

MANHOLE #9
RIM EL. = 86.60
W. INV. = 73.18
N. INV. = 83.35

WASTE TIRE FACILITY

MANHOLE #6
RIM EL. = 86.44
N. INV. = 78.28
S. INV. = 78.33

MANHOLE #7
RIM EL. = 86.10
N. INV. = 81.84
BOT. EL. = 74.24

EXISTING SIDEWALL GEOMEMBRANE LIMITS (REFER TO EXISTING EDGE OF GEOMEMBRANE CONTROL POINTS TABLE)

EXISTING PHASE II SECTION I CONTROL PANEL

EXISTING LFG CUTOFF TRENCH (APPROX.)

MANHOLE #8 (PUMP STA.)
RIM EL. = 85.75
W. INV. = 72.67
E. INV. = 72.84
BOT. EL. = 69.43

MAINTENANCE BUILDING

EXISTING PHASE II SECTION I GEOMEMBRANE

EXISTING GROUNDWATER COLLECTION SYSTEM CLEANOUTS (APPROX. TYP. 9)

PHASE II SECTION I

LEACHATE STORAGE TANKS PIPES (TYP.)

LEACHATE STORAGE TANKS

WHITE GOODS STORAGE AREA

LEACHATE TRUCK LOADING AREA

FORCEMAIN FROM MRF

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

60 30 0 60
SCALE IN FEET

LEGEND:

- GP-1 — EXISTING GAS MONITORING PROBE
- MW-2 — EXISTING MONITORING WELL
- P-1 — EXISTING PIEZOMETER
- SG-1 — EXISTING STAFF GUAGE
- EXISTING MANHOLE
- 85.1 — EXISTING SPOT ELEVATION
- LE-45 — EXISTING SIDEWALL GEOMEMBRANE AND PHASE II SECTION I GEOMEMBRANE ANCHOR TURNDOWN POINTS
- VEGETATION
- EXISTING FENCE
- DE — 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
- SILT FENCE
- HAY BALES/SILT FENCE

DESIGNATION LETTER INDICATES SECTION, NUMBER INDICATES DETAIL OR ELEVATION — A / 5|8 — INDICATES DIRECTION OF CUTTING PLANE; SHEET NUMBER WHERE SECTION IS TAKEN; SHEET NUMBER WHERE SECTION IS SHOWN

SECTION AND DETAIL DESIGNATION

NOTES:

1. 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.
2. 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.
3. 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.
4. 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:

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.

EXISTING EDGE OF GEOMEMBRANE CONTROL POINTS TABLE

NAME	NORTHING	EASTING	ELEVATION
LE-01	1177521.29	726239.54	82.92
LE-02	1177557.14	726289.42	83.42
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	726980.41	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	1177069.02	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	726248.50	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	1176582.93	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

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

DRAWING TITLE: EXISTING CONDITIONS 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
400 PARK OAKS BLVD, SUITE 130, TAMPA, FL 33610
813.621.0080 FAX 813.625.4757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

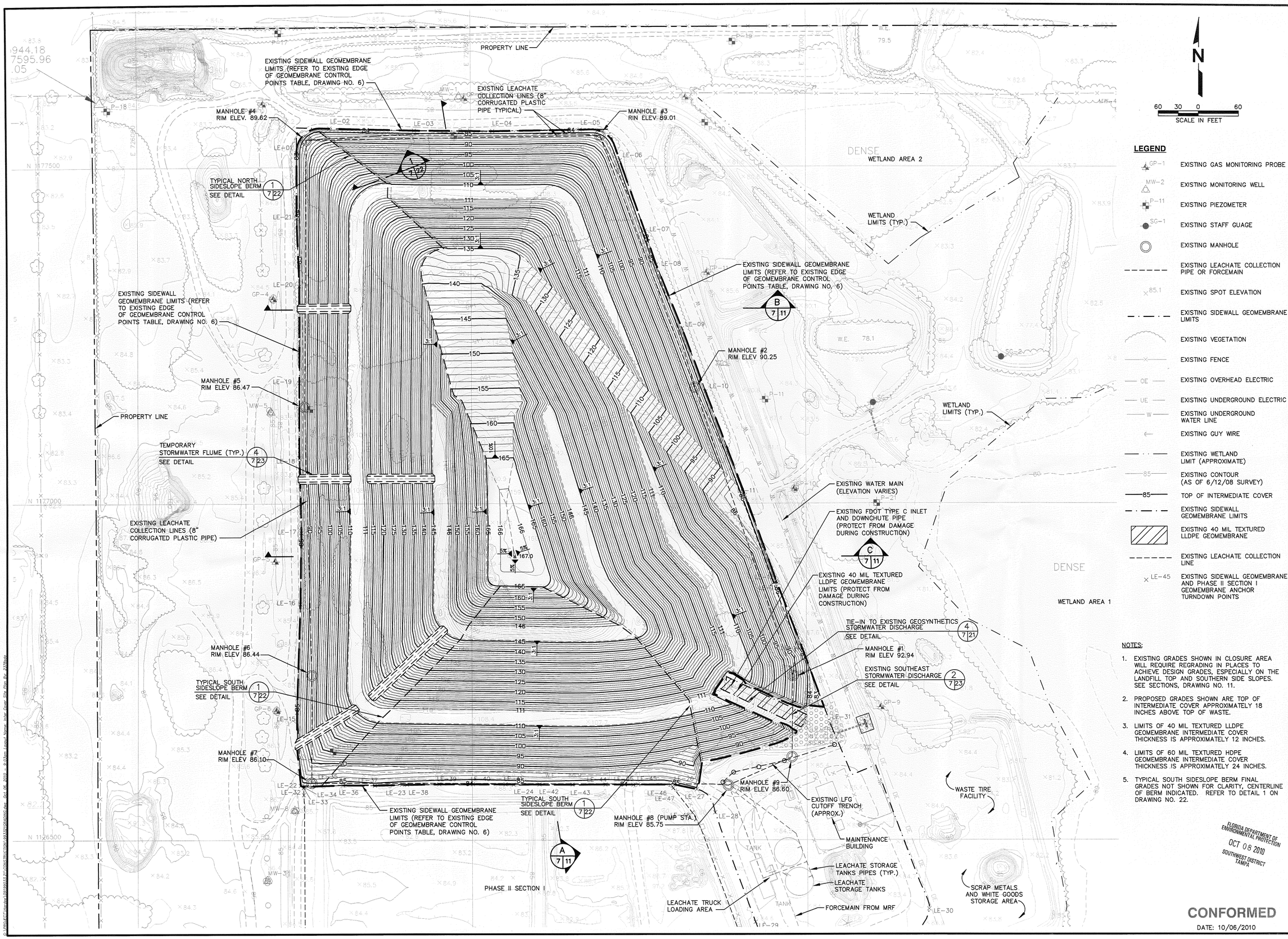
PROJ. NO. 09199033.21 | DWN. BY: CTN/JSDA | D/A RVW BY: CEH | DSGN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993321EXSITE

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. 6 of 24



LEGEND

- EXISTING GAS MONITORING PROBE (GP-1)
- EXISTING MONITORING WELL (MW-2)
- EXISTING PIEZOMETER (P-11)
- EXISTING STAFF GUAGE (SG-1)
- EXISTING MANHOLE
- EXISTING LEACHATE COLLECTION PIPE OR FORCEMAIN
- EXISTING SPOT ELEVATION
- EXISTING SIDEWALL GEOMEMBRANE LIMITS
- EXISTING VEGETATION
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING UNDERGROUND WATER LINE
- EXISTING GUY WIRE
- EXISTING WETLAND LIMIT (APPROXIMATE)
- EXISTING CONTOUR (AS OF 6/12/08 SURVEY)
- 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:

1. 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. 11.
2. PROPOSED GRADES SHOWN ARE TOP OF INTERMEDIATE COVER APPROXIMATELY 18 INCHES ABOVE TOP OF WASTE.
3. LIMITS OF 40 MIL TEXTURED LLDPE GEOMEMBRANE INTERMEDIATE COVER THICKNESS IS APPROXIMATELY 12 INCHES.
4. LIMITS OF 60 MIL TEXTURED HDPE GEOMEMBRANE INTERMEDIATE COVER THICKNESS IS APPROXIMATELY 24 INCHES.
5. TYPICAL SOUTH SIDESLOPE BERM FINAL GRADES NOT SHOWN FOR CLARITY, CENTERLINE OF BERM INDICATED. REFER TO DETAIL 1 ON DRAWING NO. 22.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

SHANE R. FRASHER, P.E.
STATE OF FLORIDA
LICENSE NO. 58026

DRAWING TITLE: **TOP OF INTERMEDIATE COVER 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
813.621.0080 FAX 813.623.6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. MGR. 09199033.21 | DWN. BY: SDA | CHK. BY: SRF | DSN. BY: SRF | Q/A RVW BY: CEH | APP. BY: SRF

CADD FILE: 993321GRADING

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. **7** of **24**

N

60 30 0 60

SCALE IN FEET

LEGEND

+101 HORIZONTAL AND VERTICAL CONTROL POINT AND IDENTIFICATION NUMBER (SEE DRAWING NO. 9 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 NO. 23.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

DRAWING TITLE
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

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

SHANE R. FISCHER, P.E.
LICENSE NO. - 35026

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
813 621-0690 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROD. NO. 09I999033.21
DSN. BY: SRF
DWN. BY: SDA
CHK. BY: SRF
QA/QC BY: CEH
APP. BY: SRF

CADD FILE: 993321GRAD-CNTRL

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. **8** of **24**

C:\DOCUMENTS\Hardee\09I999033.21\CONSTRUCTION DRAWINGS\GRADING_CNTRL.dwg, Oct 06, 2010 - 9:30am, Harold Myers, Intel Core 2Duo Plus, 1920x1200

TOP OF INTERMEDIATE COVER GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
1	1176662.01	726984.63	84.73
2	1176657.28	726982.86	86.08
3	1176650.00	726969.76	86.08
4	1176647.38	726964.36	86.08
5	1176642.44	726950.00	86.08
6	1176635.54	726925.92	86.08
7	1176628.64	726900.00	86.08
8	1176622.18	726872.76	86.08
9	1176617.57	726850.00	86.08
10	1176616.51	726844.46	86.08
11	1176616.21	726842.91	86.54
12	1176600.00	726840.59	85.77
13	1176577.12	726837.31	84.56
14	1176575.80	726835.10	84.60
15	1176582.90	726801.80	84.40
16	1176582.91	726750.00	83.95
17	1176582.93	726700.00	83.74
18	1176582.93	726650.00	83.99
19	1176583.10	726600.00	84.19
20	1176583.25	726550.00	83.94
21	1176583.39	726500.00	83.81
22	1176583.17	726450.00	83.93
23	1176582.47	726400.00	84.13
24	1176581.47	726350.00	84.31
25	1176581.89	726307.44	83.89
26	1176581.63	726300.00	83.96
27	1176580.75	726275.73	84.16
28	1176579.35	726250.00	84.13
29	1176579.23	726248.50	84.10
30	1176581.20	726243.60	84.00
31	1176600.00	726241.71	84.17
32	1176634.72	726238.20	84.48
33	1176650.00	726238.12	84.61
34	1176690.12	726238.12	84.97
35	1176700.00	726238.43	84.97
36	1176750.00	726239.99	85.00
37	1176800.00	726241.55	85.03
38	1176850.73	726243.14	85.06
39	1176900.00	726243.80	85.01
40	1176950.00	726244.47	84.96
41	1177000.00	726243.42	85.17
42	1177050.00	726242.16	85.41
43	1177070.23	726241.68	85.50
44	1177100.00	726241.81	85.52
45	1177150.00	726242.02	85.56
46	1177200.00	726242.16	85.48
47	1177250.00	726242.19	85.21
48	1177300.00	726242.21	84.95
49	1177323.84	726242.21	84.82
50	1177350.00	726241.36	84.42
51	1177400.00	726239.74	83.65
52	1177423.79	726238.97	83.28
53	1177450.00	726239.12	83.18
54	1177500.00	726239.42	83.00
55	1177522.75	726239.55	82.93
56	1177536.97	726242.66	83.03
57	1177547.48	726250.00	83.12
58	1177554.36	726259.97	83.21
59	1177557.54	726274.22	83.31
60	1177556.83	726300.00	83.47
61	1177555.41	726350.00	83.71
62	1177553.98	726400.00	83.95
63	1177553.52	726417.39	84.02
64	1177553.26	726450.00	84.06
65	1177552.85	726500.00	84.11
66	1177552.59	726532.39	84.14
67	1177552.84	726550.00	84.11
68	1177553.55	726600.00	84.01
69	1177554.27	726650.00	83.91
70	1177554.71	726680.99	83.94
71	1177553.27	726691.44	83.97
72	1177549.41	726700.00	84.00
73	1177542.29	726708.23	84.03
74	1177532.77	726713.96	84.06
75	1177500.00	726725.53	84.12
76	1177450.00	726743.12	84.03
77	1177400.00	726760.66	83.96
78	1177350.00	726777.80	83.96
79	1177300.00	726798.36	83.41
80	1177250.00	726818.58	82.99
81	1177200.00	726837.35	83.13
82	1177150.00	726856.20	83.12
83	1177100.00	726875.21	82.78
84	1177050.00	726894.22	82.45
85	1177000.00	726913.05	82.28
86	1176950.00	726931.36	82.62
87	1176900.00	726949.66	82.97
88	1176884.62	726955.29	83.08
89	1176882.18	726956.49	85.92
90	1176850.00	726968.71	84.81
91	1176800.00	726987.68	83.08
92	1176766.85	727000.00	82.74
93	1176750.00	727006.22	82.68
94	1176699.54	727024.86	82.49
95	1176697.50	727025.12	82.46
96	1176699.85	727001.84	84.11
97	1176696.33	726993.37	84.99
98	1176698.13	726985.46	86.70
99	1176703.49	726970.36	90.76
100	1176712.38	726950.00	96.91
101	1176721.84	726930.34	103.21
102	1176729.27	726912.67	108.29
103	1176735.85	726906.84	109.16
104	1176747.51	726889.31	109.45
105	1176748.96	726882.61	109.55
106	1176735.52	726872.07	109.55
107	1176723.54	726863.74	109.53
108	1176717.30	726861.82	109.29
109	1176704.54	726887.52	109.26
110	1176689.00	726921.82	100.85
111	1176674.07	726954.58	92.50
112	1176674.87	726959.34	90.67
113	1176669.86	726972.44	87.13
114	1176665.09	726979.06	85.81
115	1176659.02	726981.88	86.08

TOP OF INTERMEDIATE COVER GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
116	1176651.79	726968.86	86.08
117	1176649.22	726963.57	86.08
118	1176644.37	726949.48	86.08
119	1176637.48	726925.47	86.08
120	1176630.59	726899.56	86.08
121	1176624.13	726872.32	86.08
122	1176619.55	726849.71	86.08
123	1176618.47	726844.08	86.08
124	1176617.90	726841.14	86.61
125	1176600.19	726838.60	85.76
126	1176600.00	726831.78	88.38
127	1176617.70	726829.36	91.15
128	1176645.15	726835.95	95.85
129	1176633.73	726817.75	93.27
130	1176624.10	726800.19	91.20
131	1176619.66	726795.73	90.01
132	1176613.74	726776.41	89.05
133	1176607.69	726750.00	88.09
134	1176603.12	726725.72	87.22
135	1176599.15	726700.00	86.44
136	1176598.15	726681.48	86.36
137	1176599.03	726650.00	86.67
138	1176599.55	726629.09	86.83
139	1176601.55	726600.00	87.27
140	1176602.27	726550.00	87.11
141	1176602.82	726500.00	87.04
142	1176605.22	726450.00	87.61
143	1176608.49	726400.00	88.46
144	1176612.19	726354.74	89.48
145	1176611.98	726350.00	89.39
146	1176610.28	726307.07	88.62
147	1176610.91	726300.00	88.83
148	1176613.95	726271.54	89.74
149	1176620.69	726263.29	90.98
150	1176600.00	726252.97	87.32
151	1176600.00	726244.24	85.16
152	1176620.58	726245.01	86.45
153	1176634.94	726241.07	86.58
154	1176650.00	726241.57	86.72
155	1176690.04	726243.12	87.08
156	1176700.00	726243.43	87.08
157	1176750.00	726244.99	87.11
158	1176800.00	726246.55	87.14
159	1176850.62	726248.13	87.17
160	1176900.00	726248.80	87.12
161	1176950.00	726249.47	87.07
162	1177000.00	726248.42	87.27
163	1177050.00	726247.16	87.51
164	1177070.21	726246.68	87.60
165	1177100.00	726246.81	87.63
166	1177150.00	726247.02	87.67
167	1177200.00	726247.16	87.59
168	1177250.00	726247.18	87.32
169	1177300.00	726247.21	87.06
170	1177323.45	726247.22	86.93
171	1177350.00	726246.37	86.53
172	1177400.00	726244.75	85.76
173	1177423.85	726243.97	85.39
174	1177450.00	726244.12	85.29
175	1177500.00	726244.42	85.10
176	1177522.65	726244.56	85.03
177	1177534.82	726247.46	85.14
178	1177543.26	726253.45	85.22
179	1177549.31	726262.30	85.32
180	1177551.89	726274.30	85.42
181	1177551.98	726279.15	84.93
182	1177551.66	726300.00	85.05
183	1177549.74	726350.00	85.29
184	1177547.66	726400.00	85.53
185	1177546.57	726450.00	85.64
186	1177546.13	726500.00	85.69
187	1177546.03	726532.41	85.72
188	1177546.14	726550.00	85.69
189	1177546.97	726600.00	85.59
190	1177548.04	726650.00	85.50
191	1177548.21	726671.08	85.49
192	1177547.34	726684.03	85.53
193	1177543.30	726695.83	85.58
194	1177536.17	726703.12	85.61
195	1177525.54	726708.65	85.65
196	1177497.74	726719.07	85.70
197	1177447.84	726736.87	85.62
198	1177398.05	726754.60	85.54
199	1177347.94	726772.03	85.54
200	1177306.43	726790.38	85.08
201	1177298.17	726794.06	84.99
202	1177249.03	726815.24	84.57
203	1177248.48	726813.80	85.08
204	1177198.73	726833.63	84.71
205	1177198.34	726832.59	85.08
206	1177148.73	726852.54	84.71
207	1177148.33	726851.49	85.08
208	1177099.10	726872.45	84.37
209	1177098.36	726870.44	85.08
210	1177049.34	726892.46	84.03
211	1177048.26	726889.49	85.08
212	1177026.37	726901.71	83.87
213	1177025.13	726898.30	85.08
214	1176999.63	726911.80	83.86
215	1176998.50	726908.30	85.08
216	1176949.36	726929.12	84.20
217	1176948.54	726926.62	85.08
218	1176933.31	726934.68	84.32
219	1176932.66	726932.47	85.08
220	1176899.07	726946.66	84.55
221	1176898.51	726945.18	85.08
222	1176883.30	726952.19	84.66
223	1176882.41	726951.18	85.08
224	1176877.35	726945.37	87.48
225	1176846.71	726960.30	86.39
226	1176810.41	726978.31	85.08
227	1176798.79	726984.11	84.66
228	1176798.36	726982.94	85.08
229	1176785.22	726990.66	84.39
230	1176785.52	726987.85	85.11

TOP OF INTERMEDIATE COVER GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
231	1176781.02	726993.73	84.37
232	1176766.61	726999.43	84.32
233	1176762.42	727001.09	84.30
234	1176750.00	727002.21	84.26
235	1176750.00	726995.16	86.58
236	1176728.55	727003.48	84.19
237	1176728.12	726997.33	86.25
238	1176701.84	727002.04	84.11
239	1176702.58	726995.36	86.53
240	1176700.59	726995.14	86.53
241	1176703.78	726987.46	88.78
242	1176710.05	726972.33	93.22
243	1176718.33	726952.35	99.07
244	1176726.63	726932.32	104.94
245	1176733.78	726915.07	109.99
246	1176738.29	726908.31	110.11
247	1176750.16	726890.51	110.42
248	1176752.52	726881.77	110.61
249	1176737.49	726869.59	110.61
250	1176725.04	726860.88	110.61
251	1176716.22	726857.64	110.42
252	1176701.76	726888.08	110.00
253	1176686.90	726920.69	101.68
254	1176671.96	726953.48	93.32
255	1176665.50	726967.66	89.71
256	1176645.68	726838.90	95.31
257	1176694.13	726856.58	110.00
258	1176688.95	726830.66	110.00
259	1176688.29	726827.73	110.49
260	1176682.93	726800.00	110.49
261	1176678.73	726775.83	110.49
262	1176675.29	726750.00	110.49
263	1176673.05	726724.72	110.49
264	1176671.39	726700.00	110.49
265	1176670.51	726680.45	110.49
266	1176670.50	726650.00	110.49
267	1176671.24	726600.00	110.49
268	1176672.43	726550.00	110.49
269	1176673.18	726500.00	110.49
270	1176673.89	726450.00	110.49
271	1176674.59	726400.00	110.49
272	1176675.03	726369.17	110.49
273	1176679.31	726348.61	110.49
274	1176690.60	726331.49	110.49
275	1176705.06	726320.73	110.49
276	1176728.74	726314.63	110.49
277	1176750.00	726315.17	110.49
278	1176800.00	726316.64	110.49
279	1176850.00	726318.11	110.49
280	1176900.00	726318.92	110.49
281	1176950.00	726319.73	110.49
282	1176956.11	726319.83	110.49
283	1177000.00	726318.10	110.49
284	1177050.00	726316.12	110.49
285	1177069.79	726315.34	110.49
286	1177100.00	726315.40	110.49
287	1177150.00	726315.49	110.49
288	1177200.00	726315.88	110.49
289	1177250.00	726316.69	110.49
290	1177300.00	726317.49	110.49
291	1177350.00	726318.24	110.49
292	1177400.00	726318.93	110.49
293	1177420.56	726319.26	110.49
294	1177444.31	726325.05	110.49
295	1177457.84	726334.47	110.49
296	1177470.43	726352.59	110.49
297	1177474.97	726376.11	110.49
298	1177474.74	726381.39	110.00
299	1177474.23	726400.00	110.00
300	1177473.50	726450.00	110.00
301	1177473.36	726500.00	110.00
302	1177473.34	726550.00	110.00
303	1177473.78	726600.00	110.00
304	1177473.78	726615.21	110.00
305	1177471.20	726628.04	110.00
306	1177465.24	726640.69	109.99
307	1177455.61	726652.06	110.00
308	1177444.93	726659.65	110.00
309	1177440.41	726661.83	110.00
310	1177400.00	726676.13	110.00
311	1177350.00	726693.63	110.00
312	1177317.44	726705.01	110.00
313	1177300.00	726712.18	110.00
314	1177250.00	726732.66	110.00
315	1177205.69	726750.00	110.00
316	1177167.84	726764.17	110.01
317	1177171.12	726761.09	110.43
318	1177203.27	726744.53	110.42
319	1177245.94	726722.55	110.42
320	1177294.19	726697.70	110.42
321	1177337.14	726675.58	110.42
322	1177393.26	726655.94	110.42
323	1177429.92	726643.09	110.42
324	1177439.74	726637.60	110.42
325	1177447.37	726629.09	110.42
326	1177451.75	726618.86	110.42
327	1177452.58	726605.51	110.42
328	1177452.50	726600.00	110.42
329	1177452.06	726550.00	110.42
330	1177452.09	726500.00	110.42
331	1177452.22	726450.00	110.42
332	1177452.94	726400.00	110.42
333	1177453.49	726380.32	110.42
334	1177453.71	726375.55	110.92
335	1177451.14	726361.67	110.92
336	1177443.03	726349.85	110.92
337	1177433.43	726343.41	110.92
338	1177420.19	726340.51	110.92
339	1177400.00	726340.21	110.92
340	1177350.00	726339.52	110.92
341	1177300.00	726338.77	110.92
342	1177250.00	726337.96	110.92
343	1177200.00	726337.15	110.92
344	1177150.00	726336.77	110.92
345	1177100.00	726336.67	110.92

TOP OF INTERMEDIATE COVER GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
346	1177070.19	726336.62	110.92
347	1177050.00	726337.41	110.92
348	1177000.00	726339.39	110.92
349	1176956.35	726341.12	110.92
350	1176950.00	726341.01	110.92
351	1176900.00	726340.20	110.92
352	1176850.00	726339.39	110.92
353	1176800.00	726337.93	110.92
354	1176750.00	726336.45	110.92
355	1176729.03	726335.93	110.92
356	1176716.14	726339.04	110.92
357	1176705.98	726346.23	110.92
358	1176698.80	726357.24	110.92
359	1176696.30	726369.47	110.92
360	1176695.87	726400.00	110.92
361	1176695.16	726450.00	110.92
362	1176694.46	726500.00	110.92
363	1176693.72	726550.00	110.92
364	1176692.53	726600.00	110.92
365	1176691.77	726650.00	110.92
366	1176691.79	726680.02	110.92
367	1176692.69	726700.00	110.92
368	1176694.31	726723.63	110.92
369	1176696.70	726750.00	110.92
370	1176700.00	726774.13	110.92
371	1176704.60	726800.00	110.92
372	1176709.18	726823.69	110.92
373	1176709.84	726826.62	110.42
374	1176713.02	726843.31	110.42
375	1176747.32	726918.58	109.99
376	1176761.21	726917.14	110.00
377	1176805.87	726900.00	110.00
378	1176850.00	726883.49	110.00
379	1176894.15	726867.05	110.00
380	1176922.38	726840.52	110.00
381	1176951.95	726812.72	110.00
382	1177000.00	726792.99	110.00
383	1177050.00	726772.46	110.00
384	1177100.00	726751.93	110.00
385	1177133.95	726737.99	109.99
386	1177139.71	726732.58	110.96
387	1177132.92	726734.69	110.42
388	1177097.97	726745.54	110.42
389	1177046.37	726761.56	110.42
390	1176995.10	726777.48	110.42
391	1176940.28	726794.50	110.42
392	1176907.16	726825.62	110.42
393	1176882.71	726848.60	110.42
394	1176843.60	726863.17	110.42
395	1176798.34	726880.10	110.42
396	1176772.63	726889.90	110.42
397	1176761.14	726891.86	110.42
398	1176736.80	726800.00	121.36
399	1176738.71	726802.00	121.33
400	1176771.64	726770.11	134.54
401	1176773.56	726772.28	134.50
402	1176801.32	726748.61	145.00
403	1176800.61	726745.27	145.49
404	1176799.15	726732.81	145.49
405	1176796.60	726700.00	145.49
406	1176795.51	726677.90	145.49
407	1176795.50	726650.00	145.49
408	1176796.28	726600.00	145.49
409	1176797.47	726550.00	145.49
410	1176798.19	726500.00	145.49
411	1176798.30	726492.71	145.49
412	1176802.96	726472.25	145.49
413	1176813.35	726457.52	145.49
414	1176828.26	726447.39	145.49
415	1176848.80	726443.08	145.49
416	1176850.05	726443.10	145.49
417	1176900.00	726443.94	145.49
418	1176950.00	726444.75	145.49
419	1176957.56	726444.87	145.49
420	1177000.00	726443.20	145.49
421	1177050.00	726441.22	145.49
422	1177072.14	726440.34	145.49
423	1177100.00	726440.40	145.49
424	1177147.79	726440.49	145.49
425	1177127.52	726461.73	145.92
426	1177100.00	726461.67	145.92
427	1177072.54	726461.62	145.92
428	1177050.00	726462.51	145.92
429	1177000.00	726464.49	145.92
430	1176957.81	726466.16	145.92
431	1176950.00	726466.03	145.92
432	1176900.00	726465.22	145.92
433	1176849.12	726464.37	145.92
434	1176837.58	726466.54	145.92
435	1176828.10	726472.88	145.92
436	1176821.75	726482.45	145.92
437	1176819.57	726493.01	145.92
438	1176819.47	726500.00	145.92
439	1176818.75	726550.00	145.92
440	1176817.56	726600.00	145.92
441	1176816.77	726650.00	145.92
442	1176816.79	726677.47	145.92
443	1176817.92	726700.00	145.92
444	1176819.54	726721.62	145.92
445	1176820.85	726724.79	145.42
446	1176823.31	726726.85	145.42
447	1176827.03	726727.57	145.42
448	1176830.66	726725.98	145.42
449	1176850.03	726707.77	145.42
450	1176877.18	726686.42	145.42
451	1176904.30	726674.78	145.42
452	1176909.54	726673.15	145.42
453	1176950.00	726660.59	145.42
454	1177000.00	726645.07	145.42
455	1177050.00	726629.55	145.42
456	1177100.00	726614.02	145.42
457	1177128.90	726604.48	145.42
458	1177149.00	726617.33	145.00
459	1177139.85	726622.74	145.00
460	1177130.53	726626.82	145.00

TOP OF INTERMEDIATE COVER GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
461	1177106.14	726634.40	145.00
462	1177057.17	726649.60	145.00
463	1177005.60	726665.61	145.00
464	1176954.91	726681.35	145.00
465	1176911.67	726694.77	145.00
466	1176888.06	726704.91	145.00
467	1176866.02	726721.94	145.00
468	1176836.17	726750.00	145.00
469	1176826.83	726758.57	145.00
470	1176819.75	726761.44	145.00
471	1176812.38	726762.11	145.00
472	1176805.61	726757.23	145.00
473	1176834.52	726689.99	151.10
474	1176836.92	726691.16	151.09
475	1176853.47	726650.00	157.66
476	1176856.04	726651.19	157.83
477	1176876.36	726608.69	164.99
478	1176874.39	726605.83	164.90
479	1176874.51	726600.00	164.90
480	1176875.70	726549.89	164.90
481	1176875.90	726535.84	164.90
482	1176876.99	726530.76	164.90
483	1176879.73	726526.51	164.90
484	1176883.53	726523.62	164.89
485	1176889.18	726522.01	164.90
486	1176900.00	726522.15	164.90
487	1176950.00	726522.97	164.90
488	1176958.48	726523.10	164.90
489	1177000.00	726521.70	164.90
490	1177050.00	726520.02	164.90
491	1177068.16	726519.40	164.90
492	1177068.55	726562.71	164.99
493	1177050.00	726568.47	164.99
494	1177000.00	726583.99	164.99
495	1176950.00	726599.52	164.99
496	1176933.68	726604.58	164.99
497	1176892.25	726617.45	164.99
498	1176886.02	726617.76	164.99
499	1176881.17	726615.60	164.99
500	1176878.25	726612.67	164.99
501	1176999.38	726552.09	166.50
502	1176950.00	726552.47	166.50
503	1176909.07	726552.79	166.50
504	1176909.13	726580.11	166.50
505	1176950.00	726567.42	166.50
506	1176950.00	726559.77	166.87
507	1176920.73	726564.33	167.00
508	1177100.00	726505.89	161.80
509	1177151.49	726484.06	156.80
510	1177160.07	726472.06	155.92
511	1177200.00	726460.89	152.13
512	1177250.00	726447.22	147.31
513	1177300.00	726433.58	142.49
514	1177338.26	726423.64	138.96
515	1177356.05	726425.62	137.80
516	1177367.50	726432.44	136.93
517	1177375.57	726445.38	136.09
518	1177378.66	726458.79	135.32
519	1177378.58	726465.03	134.98
520	1177378.49	726500.00	134.98
521	1177378.45	726515.35	134.98
522	1177378.42	726539.47	134.98
523	1177378.23	726545.11	134.98
524	1177376.13	726556.60	134.98
525	1177372.29	726566.67	134.98
526	1177367.74	726574.50	134.98
527	1177362.38	726581.26	134.98
528	1177350.00	726592.97	133.86
529	1177329.09	726612.62	131.12
530	1177300.00	726639.96	127.31
531	1177268.70	726669.38	123.21
532	1177236.12	726700.00	118.95
533	1177200.00	726733.95	114.22
534	1177129.72	726800.00	103.35
535	1177100.00	726827.93	98.15
536	1177076.52	726850.00	94.05
537	1177050.00	726874.92	89.42
538	1176931.21	726928.54	86.60
539	1176961.57	726900.00	86.60
540	1177000.06	726863.83	86.60
541	1177019.30	726845.74	89.96
542	1177048.97	726817.86	95.14
543	1177072.09	726796.13	99.18
544	1177102.24	726767.79	104.45
545	1177147.05	726725.68	111.92
546	1177171.76	726702.46	115.16
547	1177208.44	726667.98	119.96
548	1177240.65	726637.71	124.18
549	1177273.97	726606.39	128.54
550	1177300.07	726581.86	131.96
551	1177313.52	726550.00	136.47
552	1177322.71	726528.23	139.41
553	1177322.71	726515.22	140.38
554	1177306.64	726532.50	141.93
555	1177291.61	726548.66	143.38
556	1177250.00	726556.77	147.41
557	1177200.00	726566.47	152.26
558	1177150.15	726576.17	157.09
559	1177130.70	726564.03	158.96
560	1177108.40	726562.13	161.12
561	1177099.67	726562.14	161.97
562	1177527.15	726307.04	93.48
563	1177529.54	726308.87	92.21
564	1177500.00	726342.98	102.33
565	1177502.39	726344.80	101.02
566	1177432.08	726400.00	117.99
567	1177434.28	726402.04	116.72
568	1177405.48	726430.08	126.69
569	1177407.62	726432.19	125.46
570	1177380.09	726458.79	135.00
571	1177377.93	726447.86	135.73
572	1176666.45	726877.96	99.39
573	1176650.00	726800.00	99.71
574	1176640.00	726750.00	98.80
575	1176640.00	726700.00	100.04

TOP OF INTERMEDIATE COVER GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
576	1176640.00	726650.00	100.33
577	1176640.00	726600.00	100.08
578	1176640.00	726550.00	99.68
579	1176640.00	726500.00	99.43
580	1176640.00	726450.00	99.20
581	1176640.00	726400.00	98.96
582	1176640.00	726350.00	98.74
583	1176650.00	726285.00	97.76
584	1176700.00	726285.00	100.82
585	1176750.00	726285.00	100.44
586	1176800.00	726285.00	99.95
587	1176850.00	726285.00	99.46
588	1176900.00	726285.00	99.19
589	1176950.00	726285.00	98.91
590	1177000.00	726285.00	99.46
591	1177050.00	726285.00	100.12
592	1177100.00	726285.00	100.36
593	1177150.00	726285.00	100.33
594	1177200.00	726285.00	100.20
595	1177250.00	726285.00	99.93
596	1177300.00	726285.00	99.66
597	1177350.00	726285.00	99.41
598	1177400.00	726285.00	99.18
599	1177450.00	726285.00	98.91
600	1177510.00	726285.00	95.06
601	1177510.00	726400.00	98.07
602	1177510.00	726450.00	97.83
603	1177510.00	726500.00	97.76
604	1177510.00	726550.00	97.75
605	1177510.00	726600.00	97.91
606	1177510.00	726650.00	97.75
607	1177500.00	726681.71	96.17
608	1177450.00	726700.00	96.91
609	1177400.00	726718.31	96.73
610	1177350.00	726736.61	96.47
611	1177300.00	726754.92	96.82
612	1177250.00	726773.22	97.47
613	1177200.00	726791.52	97.70
614	1177150.00	726809.82	97.88
615	1177030.96	726800.00	103.48
616	1177000.00	726823.64	99.88
617	1176965.48	726850.00	97.85
618	1176932.57	726875.13	99.26
619	1176900.00	726900.00	99.06
620	1176850.00	726919.45	98.76
621	1176800.00	726938.90	98.59
622	1176750.00	726958.35	97.87
623	1177271.52	726575.05	138.53
624	1177236.98	726600.00	136.35
625	1177200.00	726626.72	134.00
626	1177150.00	726662.84	130.80
627	1177100.00	726688.90	128.25
628	1177050.00	726705.18	128.01
629	1177000.00	726721.46	127.77
630	1176950.00	726737.74	127.63
631	1176900.00	726764.29	127.25
632	1176850.00	726804.84	127.87
633	1176800.00	726822.62	128.15
634	1176763.49	726827.23	123.68
635	1176750.00	726750.00	128.45
636	1176750.00	726700.00	129.82
637	1176750.00	726650.00	130.33
638	1176750.00	726600.00	130.07
639	1176750.00	726550.00	129.67
640	1176750.00	726500.00	129.43
641	1176750.00	726450.00	129.20
642	1176750.00	726390.00	124.75
643	1176800.00	726390.00	128.26
644	1176850.00	726390.00	127.79
645	1176900.00	726390.00	127.52
646	1176950.00	726390.00	127.25
647	1177000.00	726390.00	127.78
648	1177050.00	726390.00	128.43
649	1177100.00	726390.00	128.69
650	1177150.00	726390.00	128.66
651	1177200.00	726390.00	128.50
652	1177250.00	726390.00	128.25
653	1177300.00	726390.00	127.98
654	1177350.00	726390.00	127.71
655	1177415.00	726390.00	121.72
656	1177415.00	726450.00	122.89
657	1177415.00	726500.00	122.79
658	1177415.00	726550.00	122.78
659	1177415.00	726600.00	121.23
660	1177400.00	726615.09	121.43
661	1177350.00	726640.71	119.91
662	1177300.00	726666.33	119.18
663	1177050.00	726600.00	154.89
664	1177000.00	726615.07	155.03
665	1176950.00	726630.15	155.17
666	1176900.00	726645.22	155.34
667	1176845.00	726600.00	155.06
668	1176845.00	726550.00	154.67
669	1176850.00	726495.00	153.83
670	1176900.00	726495.00	155.84
671	1176950.00	726495.00	155.57
672	1177000.00	726495.00	156.05
673	1177050.00	726495.00	156.62
674	1177100.00	726535.39	161.87
675	1177150.00	726524.40	157.02
676	1177200.00	726513.41	152.19
677	1177250.00	726502.42	147.35
678	1177300.00	726491.43	142.54
679	1177350.00	726450.00	138.05
680	1177350.00	726500.00	137.73
681	1177350.00	726550.00	136.28
682	1176815.60	726460.45	–
683	1176711.23	726348.97	–
684	1176698.05	726329.56	–
685	1176644.40	726241.36	–
686	1177036.94	726444.90	–
687	1177037.02	726343.59	–
688	1177037.02	726319.80	–
689	1177037.02	726247.49	–
690	1177290.44	726320.50	–
691	1177290.44	726247.20	–

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
△	08/09/10	ISSUED FOR BID	SRF
△	10/06/10	CONFORMED DRAWING	SRF
△			
△			
△			
△			

DRAWING TITLE
TOP OF INTERMEDIATE COVER GRADING CONTROL POINTS TABLE

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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.21 | DWN. BY: SDA | Q/A RVW BY: CEH
DSN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993321GRAD-CNTRL

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. 9 of 24

G:\PROJECT\Hardee\09199033.21\CONSTRUCTION\993321GRAD-CNTRL.dwg Oct 06, 2010 - 9:32am Layout Name: Inter Cover Points Table By: 2378sda

TYPICAL FINAL COVER TOE DRAIN AND TOE DRAIN DISCHARGE STRUCTURE SEE DETAIL 3/10 22

PROPERTY LINE

EXISTING SIDEWALL GEOMEMBRANE LIMITS (REFER TO EXISTING EDGE OF GEOMEMBRANE CONTROL POINTS TABLE, DRAWING NO. 6)

EXISTING LEACHATE COLLECTION LINES (8" CORRUGATED PLASTIC PIPE)

END OF PERIMETER BERM

MANHOLE #4 RIM ELEV. 89.62

MANHOLE #3 RIN ELEV 89.01

NORTH SIDE FINAL COVER SYSTEM (TYP.) SEE DETAIL 6/10 21

TOP TERRACE INLET AND DOWNCHUTE PIPES (TYP.) SEE DETAIL 2/10 24

TYPICAL NORTH SIDESLOPE BERM SEE DETAIL 1/10 22

TYPICAL FINAL COVER TOE DRAIN AND TOE DRAIN DISCHARGE STRUCTURE SEE DETAIL 3/10 22

STORMWATER PIPE DISCHARGE (TYP.) SEE DETAIL 1/10 23

WETLAND LIMITS (TYP.)

PERIMETER SWALE SLOPE 0.2% (TYP.)

TEMPORARY STORMWATER FLUME (TYP.) SEE DETAIL 4/10 23

EXISTING SIDEWALL GEOMEMBRANE LIMITS (REFER TO EXISTING EDGE OF GEOMEMBRANE CONTROL POINTS TABLE, DRAWING NO. 6)

B 10/11

MANHOLE #2 RIM ELEV 90.25

MIDDLE TERRACE INLET AND DOWNCHUTE PIPES (TYP.) SEE DETAIL 1/10 24

MANHOLE #5 RIM ELEV 86.47

STORMWATER PIPE DISCHARGE (TYP.) SEE DETAIL 1/10 23

WETLAND LIMITS (TYP.)

PROPERTY LINE

PROTECT EXISTING MONITORING WELLS FROM DAMAGE DURING CONSTRUCTION, SEE NOTES 1 AND 2 (TYP.)

ACCESS RAMP (TYP.) SEE DETAIL 3/10 21

TYPICAL FINAL COVER TOE DRAIN AND TOE DRAIN DISCHARGE STRUCTURE SEE DETAIL 3/10 22

EXISTING WATER MAIN (ELEVATION VARIES)

C 10/11

EAST SIDE FINAL COVER SYSTEM (TYP.) SEE DETAIL 6/10 21

EXISTING LEACHATE COLLECTION PIPE (8" CORRUGATED PLASTIC)

WEST SIDE FINAL COVER SYSTEM (TYP.) SEE DETAIL 1/10 21

WEST SIDE SLOPE FINAL COVER TOE DETAIL (TYP.) SEE DETAIL 4/10 22

TYPICAL SOUTH SIDESLOPE BERM SEE DETAIL 1/10 22

FINAL COVER TIE-IN TO STORMWATER DISCHARGE SEE DETAIL 5/10 21

MANHOLE #1 RIM ELEV 92.94

MANHOLE #6 RIM ELEV 86.44

EXISTING SOUTHEAST STORMWATER DISCHARGE SEE DETAIL 2/10 23

TYPICAL SOUTH SIDESLOPE BERM SEE DETAIL 1/10 22

MANHOLE #7 RIM ELEV 86.10

MANHOLE #9 RIM ELEV 86.60

WASTE TIRE FACILITY

PHASE I/PHASE II SECTION I EDGE OF LINER DETAIL SEE DETAIL 2/10 21

BEGIN PERIMETER BERM

EXISTING SIDEWALL GEOMEMBRANE LIMITS (REFER TO EXISTING EDGE OF GEOMEMBRANE CONTROL POINTS TABLE, DRAWING NO. 6)

MANHOLE #8 (PUMP STA.) RIM ELEV 85.75

MAINTENANCE BUILDING

SOUTH SIDE FINAL COVER SYSTEM (TYP.) SEE DETAIL 1/10 21

A 10/11

LEACHATE STORAGE TANKS PIPES (TYP.)

LEACHATE STORAGE TANKS

SCRAP METALS AND WHITE GOODS STORAGE AREA

PHASE II SECTION I

LEACHATE TRUCK LOADING AREA

FORCEMAIN FROM MRF

WETLAND AREA 2

WETLAND AREA 1

DENSE

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

N

60 30 0 60

SCALE IN FEET

LEGEND

- EXISTING GAS MONITORING PROBE (GP-1)
- EXISTING MONITORING WELL (MW-2)
- EXISTING PIEZOMETER (P-11)
- EXISTING STAFF GUAGE (SG-1)
- EXISTING MANHOLE
- EXISTING LEACHATE COLLECTION PIPE OR FORCEMAIN
- EXISTING SPOT ELEVATION (85.1)
- EXISTING LINER EDGE SPOT ELEVATION (LE-24)
- EXISTING VEGETATION
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC (OE)
- EXISTING UNDERGROUND ELECTRIC (UE)
- EXISTING GUY WIRE
- EXISTING WETLAND LIMIT (APPROXIMATE)
- EXISTING CONTOUR (AS OF 6/12/08 SURVEY) (85)
- FINAL CLOSURE CONTOUR
- FINAL CLOSURE CONTOUR (85)
- SURFACE WATER FLOW DIRECTION
- STORMWATER SWALE HIGH POINT (HP)
- EXISTING SIDEWALL GEOMEMBRANE LIMITS
- STORMWATER DOWNCHUTE PIPE
- APPROXIMATE PROJECT LIMITS
- EXISTING UNDERGROUND WATER LINE (W)
- TYPICAL FINAL COVER TOE DRAIN
- TYPICAL FINAL COVER TOE DRAIN CONTROL POINTS TABLE CALLOUT (8)

NOTES:

1. ALL EXISTING MONITORING WELLS SHALL BE BARRIER PROTECTED FROM DAMAGE DURING CONSTRUCTION BY METHODS APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. 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.
3. TYPICAL SOUTH SIDESLOPE BERM FINAL GRADES NOT SHOWN FOR CLARITY, CENTERLINE OF BERM INDICATED. REFER TO DETAIL 1 ON DRAWING NO. 22.
4. RAIN TARP TO BE INSTALLED FROM ELEVATION 167 CREST ALONG ENTIRE SOUTH SIDESLOPE OVER THE CREST OF THE ELEVATION 115 TERRACE.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT
TAMPA
CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

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
400 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
813/621-0080 FAX 813/623-4757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

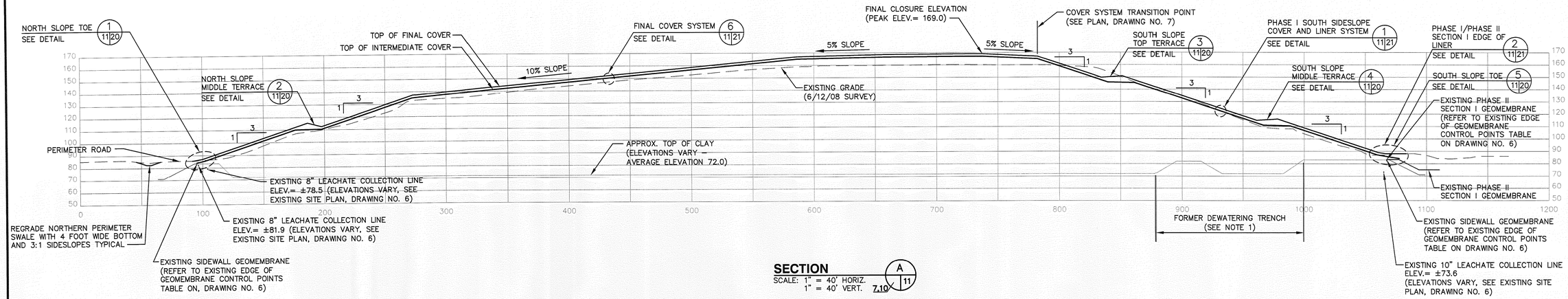
PROJ. NO. 09199033.21 | DWN. BY: SDA | C/A REV. BY: CEH | CHK. BY: SRF | APP. BY: SRF | DSN. BY: SRF

CADD FILE: 993321GRADING

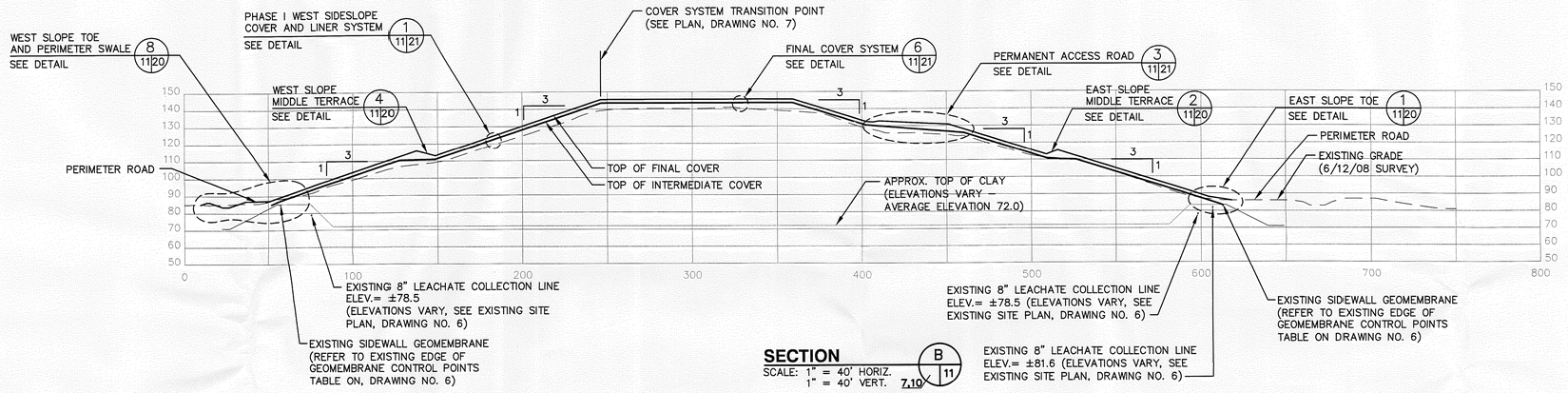
DATE: JUNE 2010

SCALE: AS SHOWN

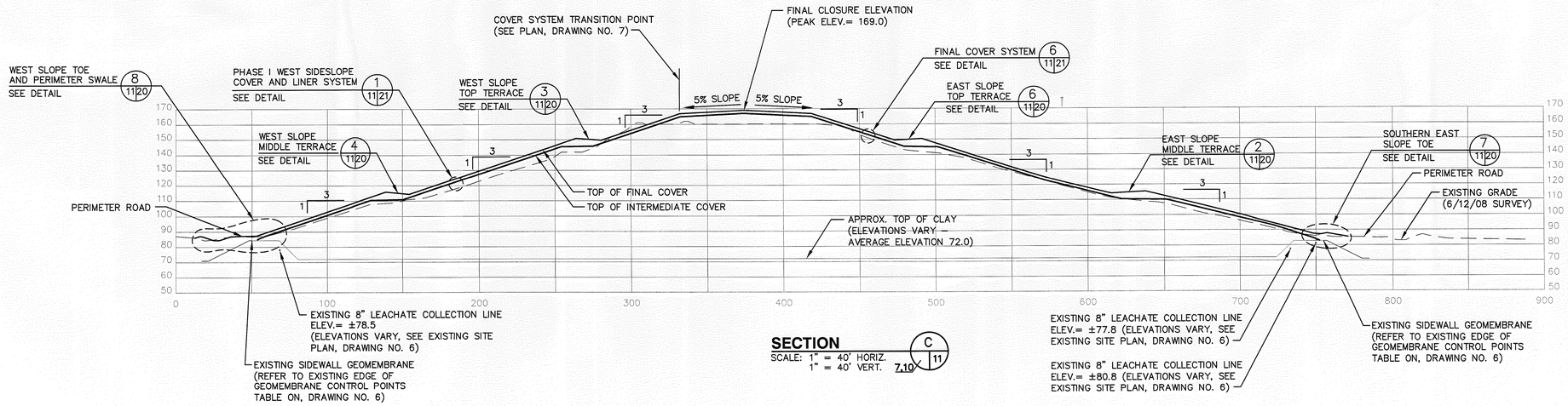
DRAWING NO. 10 of 24



SECTION A 11 — SCALE: 1" = 40' HORIZ. 1" = 40' VERT. 7.10



SECTION B 11 — SCALE: 1" = 40' HORIZ. 1" = 40' VERT. 7.10



SECTION C 11 — SCALE: 1" = 40' HORIZ. 1" = 40' VERT. 7.10

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

NOTES:

1. 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.

2. 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.

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

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
813 621-0080 FAX 813 621-0207
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

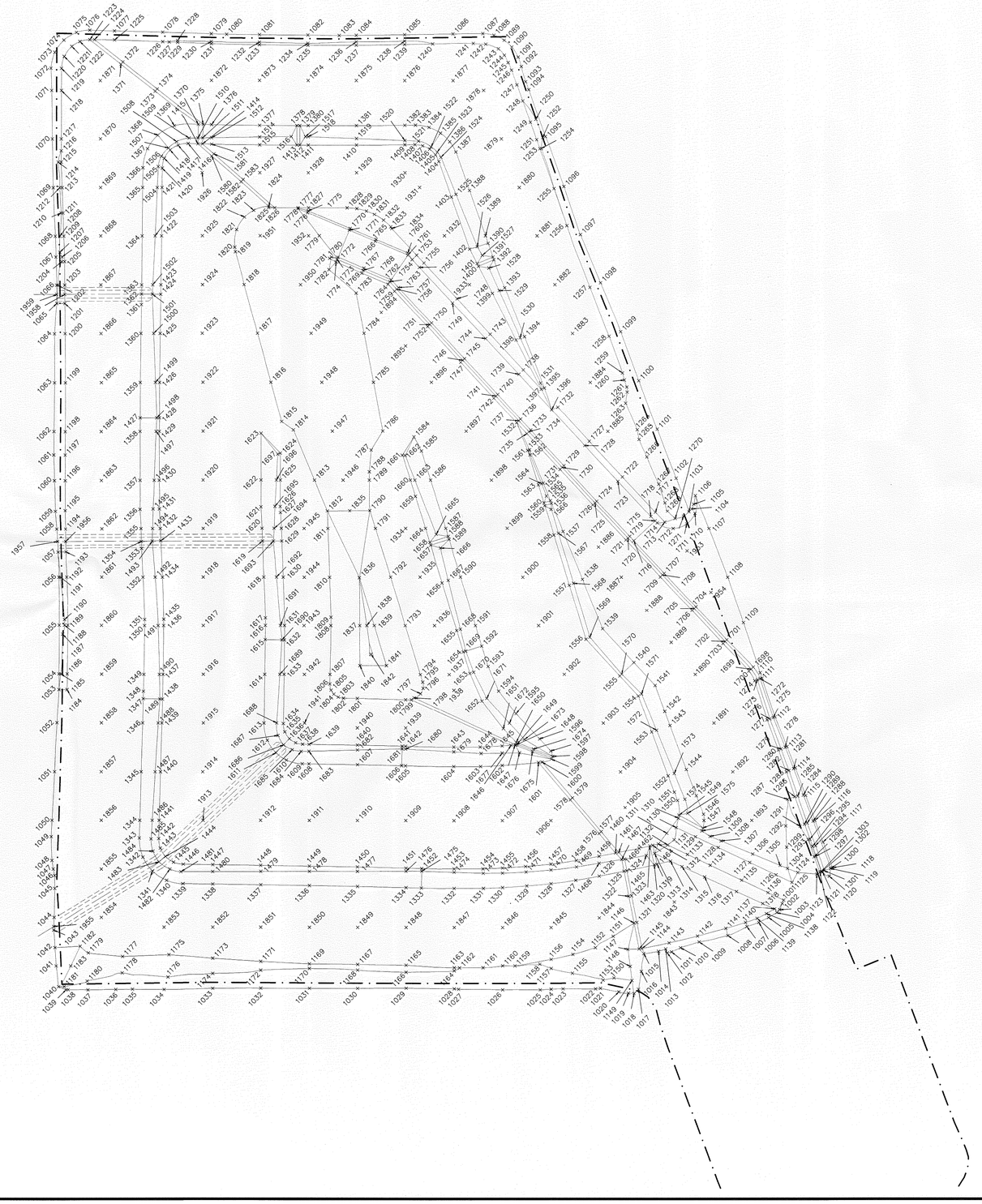
PROJECT NO. 09199033.21 | DSN. BY: SRF | DRN. BY: CTN/SDA | CHK. BY: SRF | QA/QC BY: CEH | APP. BY: SRF

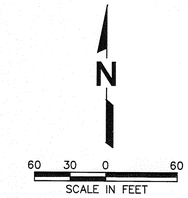
CADD FILE: 993321SECTIONS

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. 11 of 24





LEGEND

+1001 HORIZONTAL AND VERTICAL CONTROL POINT AND IDENTIFICATION NUMBER (SEE DRAWING NO. 13 AND 14 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 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.
2. 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 NO. 23.
3. 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 NO. 23.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
△	08/09/10	ISSUED FOR BID	SRF
△	10/06/10	CONFORMED DRAWING	SRF

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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.21 | DWN. BY: SDA | Q/A RVW BY: CEH
DSN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993321GRAD-CNTRL
DATE: JUNE 2010
SCALE: AS SHOWN
DRAWING NO. 12 of 24

TOP OF FINAL CLOSURE GRADING CONTROL TABLE

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	726762.30	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	726317.38	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

TOP OF FINAL CLOSURE GRADING CONTROL TABLE

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	1176694.08	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	88.00
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	1176601.78	726550.00	89.06
1168	1176595.96	726550.00	88.09
1169	1176602.34	726500.00	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

TOP OF FINAL CLOSURE GRADING CONTROL TABLE

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	726365.54	87.47
1230	1177549.87	726400.00	87.00
1231	1177547.66	726400.00	87.64
1232	1177549.13	726450.00	86.89
1233	1177546.57	726450.00	87.74
1234	1177548.03	726500.00	87.21
1235	1177546.13	726500.00	87.80
1236	1177549.60	726550.00	86.68
1237	1177546.14	726550.00	87.80
1238	1177550.45	726600.00	86.55
1239	1177546.97	726600.00	87.70
1240	1177547.58	726628.94	87.64
1241	1177548.21	726671.08	87.60
1242	1177547.34	726684.03	87.64
1243	1177542.62	726696.94	87.69
1244	1177536.17	726703.12	87.72
1245	1177528.58	726706.94	87.75
1246	1177520.89	726710.51	87.78
1247	1177505.78	726716.07	87.82
1248	1177489.39	726722.05	87.79
1249	1177467.21	726729.96	87.75
1250	1177470.26	726735.65	85.55
1251	1177449.31	726736.35	87.73
1252	1177451.37	726742.60	85.53
1253	1177439.89	726739.71	87.71
1254	1177440.14	726741.23	87.20
1255	1177398.92	726754.29	87.65
1256	1177360.45	726767.58	87.68
1257	1177297.31	726791.45	88.00
1258	1177247.20	726811.19	88.15
1259	1177209.66	726824.99	88.18
1260	1177202.52	726826.95	88.29
1261	1177195.33	726829.51	88.31
1262	1177190.15	726829.92	88.55
1263	1177178.87	726828.28	89.46
1264	1177151.58	726840.29	89.19
1265	1177141.64	726842.12	89.94
1266	1177123.72	726850.25	89.68
1267	1177096.08	726862.34	89.44
1268	1177076.77	726868.80	89.92
1269	1177068.16	726871.41	90.23
1270	1177060.42	726879.42	88.63
1271	1177062.79	726888.15	87.11
1272	1176895.61	726967.20	85.01
1273	1176894.56	726964.39	84.01
1274	1176893.52	726961.58	84.01
1275	1176855.56	726980.76	84.98
1276	1176854.27	726977.30	83.75
1277	1176853.30	726974.46	83.75
1278	1176825.12	726993.12	85.07
1279	1176823.45	726988.83	83.54
1280	1176822.31	726986.06	83.54
1281	1176803.18	727001.72	85.13
1282	1176801.38	726996.84	83.39
1283	1176800.00	726994.14	83.39
1284	1176776.33	727011.66	85.17
1285	1176775.30	727005.82	83.22
1286	1176774.58	727002.90	83.22
1287	1176771.92	726995.22	85.92
1288	1176749.25	727021.74	85.19
1289	1176747.23	727015.61	83.04
1290	1176746.06	727012.84	83.04
1291	1176743.91	727008.31	84.70
1292	1176744.24	726993.48	87.10
1293	1176730.26	727016.62	83.52
1294	1176723.94	727024.13	82.88
1295	1176723.22	727021.20	82.88
1296	1176730.68	727018.47	82.93
1297	1176713.02	727024.43	82.97
1298	1176712.50	727022.75	83.04
1299	1176722.48	726994.31	87.87
1300	1176700.62	727039.89	85.10

TOP OF FINAL CLOSURE GRADING CONTROL TABLE

POINT NUMBER	NORTHING	EASTING	ELEVATION
1301	1176698.24	727033.13	82.71
1302	1176697.24	727030.30	82.71
1303	1176697.14	727030.00	82.76
1304	1176700.59	726995.14	88.64
1305	1176703.78	726987.46	90.89
1306	1176715.50	726959.17	99.18
1307	1176729.06	726926.45	108.77
1308	1176733.78	726915.07	112.10
1309	1176739.39	726906.66	115.41
1310	1176752.42	726882.15	115.41
1311	1176737.10	726870.21	115.41
1312	1176726.03	726861.57	115.41
1313	1176716.22	726857.64	115.41
1314	1176708.41	726874.09	115.41
1315	1176702.78	726885.93	112.61
1316	1176692.08	726909.32	106.69
1317	1176677.04	726942.33	98.27
1318	1176664.66	726969.49	91.35
1319	1176705.17	726860.22	115.41
1320	1176704.49	726857.29	115.41
1321	1176645.24	726838.98	97.27
1322	1176672.45	726830.75	107.23
1323	1176672.93	726833.71	106.67
1324	1176698.70	726828.80	115.41
1325	1176698.05	726825.88	115.91
1326	1176693.04	726800.00	115.91
1327	1176688.76	726775.66	115.91
1328	1176685.29	726750.00	115.91
1329	1176683.03	726724.93	115.91
1330	1176681.33	726700.00	115.91
1331	1176680.45	726680.25	115.91
1332	1176680.43	726650.00	115.91
1333	1176680.80	726615.90	115.91
1334	1176681.18	726600.00	115.91
1335	1176682.37	726550.00	115.91
1336	1176683.11	726500.00	115.91
1337	1176683.82	726450.00	115.91
1338	1176684.53	726400.00	115.91
1339	1176684.96	726369.47	115.91
1340	1176688.44	726352.53	115.91
1341	1176697.85	726338.27	115.91
1342	1176712.22	726328.33	115.91
1343	1176731.85	726324.57	115.91
1344	1176750.00	726325.10	115.91
1345	1176800.00	726326.58	115.91
1346	1176850.00	726328.04	115.91
1347	1176874.98	726328.45	115.91
1348	1176882.64	726328.57	115.91
1349	1176900.00	726328.85	115.91
1350	1176950.00	726329.67	115.91
1351	1176956.22	726329.77	115.91
1352	1177000.00	726328.04	115.91
1353	1177029.46	726326.87	115.91
1354	1177036.58	726326.59	115.91
1355	1177050.00	726326.06	115.91
1356	1177069.98	726325.27	115.91
1357	1177100.00	726325.33	115.91
1358	1177150.00	726325.43	115.91
1359	1177200.00	726325.81	115.91
1360	1177250.00	726326.62	115.91
1361	1177279.93	726327.10	115.91
1362	1177290.62	726327.28	115.91
1363	1177300.00	726327.43	115.91
1364	1177350.00	726328.18	115.91
1365	1177400.00	726328.86	115.91
1366	1177420.24	726329.19	115.91
1367	1177439.88	726333.94	115.91
1368	1177453.70	726344.56	115.91
1369	1177463.27	726361.97	115.91
1370	1177464.67	726386.31	115.91
1371	1177526.80	726306.52	95.69
1372	1177529.04	726308.59	94.48
1373	1177499.11	726342.08	104.70
1374	1177501.32	726344.17	103.48
1375	1177464.53	726391.37	115.41
1376	1177464.29	726400.00	115.41
1377	1177463.56	726450.00	115.41
1378	1177463.44	726488.13	115.41
1379	1177463.44	726491.13	115.41
1380	1177463.43	726500.00	115.41
1381	1177463.41	726550.00	115.41
1382	1177463.85	726600.00	115.41
1383	1177463.97	726610.99	115.41
1384	1177461.76	726624.94	115.41
1385	1177455.85	726636.90	115.41
1386	1177447.07	726646.35	115.41
1387	1177436.45	726652.72	115.41
1388	1177396.87	726666.70	115.41
1389	1177350.00	726683.10	115.41
1390	1177342.33	726685.79	115.41
1391	1177328.19	726690.73	115.41
1392	1177325.35	726691.71	115.41
1393	1177296.77	726702.76	115.41
1394	1177246.63	726723.31	115.41
1395	1177194.25	726743.68	115.41
1396	1177172.16	726751.24	115.41
1397	1177193.05	726740.48	115.41
1398	1177243.31	726714.59	115.41
1399	1177291.00	726690.03	115.41
1400	1177318.76	726675.73	115.41

TOP OF FINAL CLOSURE GRADING CONTROL TABLE

POINT NUMBER	NORTHING	EASTING	ELEVATION
1401	1177321.44	726674.35	115.41
1402	1177336.26	726666.72	115.41
1403	1177390.19	726647.85	115.41
1404	1177426.76	726635.03	115.41
1405	1177433.46	726631.56	115.41
1406	1177439.33	726625.54	115.41
1407	1177442.82	726618.38	115.41
1408	1177444.00	726610.39	115.41
1409	1177443.84	726600.00	115.41
1410	1177443.41	726550.00	115.41
1411	1177443.43	726500.00	115.41
1412	1177443.44	726491.12	115.41
1413	1177443.44	726488.12	115.41
1414	1177444.55	726390.45	115.41
1415	1177444.68	726385.76	115.91
1416	1177445.05	726375.66	115.91
1417	1177443.47	726365.76	115.91
1418	1177438.42	726357.48	115.91
1419	1177429.92	726351.34	115.91
1420	1177419.83	726349.16	115.91
1421	1177400.00	726348.87	115.91
1422	1177350.00	726348.18	115.91
1423	1177300.00	726347.43	115.91
1424	1177290.30	726347.27	115.91
1425	1177250.00	726346.62	115.91
1426	1177200.00	726345.81	115.91
1427	1177163.78	726325.45	115.91
1428	1177163.74	726345.45	115.91
1429	1177150.00	726345.43	115.91
1430	1177100.00	726345.33	115.91
1431	1177070.35	726345.27	115.91
1432	1177050.00	726346.08	115.91
1433	1177037.37	726346.58	115.91
1434	1177000.00	726348.05	115.91
1435	1176956.45	726349.78	115.91
1436	1176950.00	726349.67	115.91
1437	1176900.00	726348.86	115.91
1438	1176874.65	726348.45	115.91
1439	1176850.00	726348.04	115.91
1440	1176800.00	726346.59	115.91
1441	1176750.00	726345.11	115.91
1442	1176731.33	726344.56	115.91
1443	1176721.50	726346.15	115.91
1444	1176712.93	726351.49	115.91
1445	1176707.12	726359.73	115.91
1446	1176704.96	726369.84	115.91
1447	1176704.53	726400.00	115.91
1448	1176703.82	726450.00	115.91
1449	1176703.12	726500.00	115.91
1450	1176702.38	726550.00	115.91
1451	1176701.18	726600.00	115.91
1452	1176700.79	726616.38	115.91
1453	1176700.43	726650.00	115.91
1454	1176700.45	726679.84	115.91
1455	1176701.36	726700.00	115.91
1456	1176703.00	726723.80	115.91
1457	1176705.42	726750.00	115.91
1458	1176709.09	726776.28	115.91
1459	1176713.42	726800.00	115.91
1460	1176716.74	726817.21	115.91
1461	1176717.48	726820.54	115.41
1462	1176721.50	726841.58	115.41
1463	1176723.97	726852.76	115.41
1464	1176724.65	726855.68	115.41
1465	1176714.19	726849.05	112.50
1466	1176710.55	726826.45	112.74
1467	1176710.07	726823.50	112.78
1468	1176706.28	726800.00	113.03
1469	1176702.49	726776.46	113.29
1470	1176699.35	726750.00	113.57
1471	1176697.33	726724.25	113.85
1472	1176696.13	726700.00	114.11
1473	1176696.01	726680.02	114.32
1474	1176696.98	726650.00	114.64
1475	1176698.07	726616.31	115.00
1476	1176698.01	726600.00	114.88
1477	1176697.85	726550.00	114.52
1478	1176697.69	726500.00	114.15
1479	1176697.53	726450.00	113.79
1480	1176697.37	726400.00	113.42
1481	1176697.27	726367.54	113.19
1482	1176700.00	726355.94	113.10
1483	1176707.32	726344.80	113.00
1484	1176718.36	726338.74	113.15
1485	1176730.94	726336.81	113.30
1486	1176750.00	726337.99	113.53
1487	1176800.00	726341.09	114.12
1488	1176850.00	726344.19	114.71
1489	1176874.70	726345.72	115.00
1490	1176900.00	726345.12	114.69
1491	1176950.00	726343.95	114.07
1492	1177000.00	726340.56	113.46
1493	1177037.02	726337.85	113.00
1494	1177050.00	726338.23	113.20
1495	1177070.35	726338.84	113.53
1496	1177100.00	726340.07	113.99
1497	1177150.00	726342.15	114.78
1498	1177163.75	726342.72	115.00
1499	1177200.00	726341.53	114.43
1500	1177250.00	726339.88	113.64

TOP OF FINAL CLOSURE GRADING CONTROL TABLE

POINT NUMBER	NORTHING	EASTING	ELEVATION
1501	1177290.44	726338.55	113.00
1502	1177300.00	726339.02	113.12
1503	1177350.00	726341.49	113.78
1504	1177400.00	726343.96	114.43
1505	1177421.51	726345.03	114.71
1506	1177432.05	726348.36	114.85
1507	1177440.50	726355.71	115.00
1508	1177446.98	726364.28	114.79
1509	1177450.51	726376.70	114.54
1510	1177450.68	726385.90	114.36
1511	1177450.76	726390.64	114.27
1512	1177450.91	726400.00	114.09
1513	1177444.29	726400.00	115.41
1514	1177451.68	726450.00	113.12
1515	1177443.56	726450.00	115.41
1516	1177452.17	726482.29	112.50
1517	1177452.16	726496.95	112.50
1518	1177452.05	726500.00	112.55
1519	1177450.11	726550.00	113.31
1520	1177448.18	726600.00	114.07
1521	1177447.63	726614.15	114.28
1522	1177441.62	726627.03	114.50
1523	1177436.33	726633.44	114.37
1524	1177431.07	726637.22	114.26
1525	1177392.84	726652.66	113.60
1526	1177338.73	726674.52	112.66
1527	1177329.98	726679.78	112.50
1528	1177316.90	726686.51	112.50
1529	1177293.90	726696.94	112.89
1530	1177245.60	726718.84	113.71
1531	1177199.41	726739.78	114.50
1532	1177158.74	726715.17	115.41
1533	1177131.04	726728.45	115.41
1534	1177097.07	726742.40	115.41
1535	1177078.91	726749.85	115.41
1536	1177076.13	726750.99	115.41
1537	1177046.86	726763.01	115.41
1538	1176997.65	726783.22	115.41
1539	1176946.49	726804.23	115.41
1540	1176912.09	726836.56	115.41
1541	1176888.81	726858.44	115.41
1542	1176862.02	726868.42	115.41
1543	1176847.49	726873.83	115.41
1544	1176802.39	726890.70	115.41
1545	1176775.61	726900.97	115.41
1546	1176756.41	726908.34	115.41
1547	1176750.00	726908.72	115.41
1548	1176742.23	726907.71	115.41
1549	1176755.47	726882.81	115.41
1550	1176770.74	726881.39	115.41
1551	1176779.25	726878.16	115.41
1552	1176795.94	726871.75	115.41
1553	1176840.93	726854.93	115.41
1554	1176878.05	726841.10	115.41
1555	1176898.39	726821.99	115.41
1556	1176935.80	726786.82	115.41
1557	1176991.56	726769.51	115.41
1558	1177043.11	726753.51	115.41
1559	1177073.66	726744.02	115.41
1560	1177076.53	726743.13	115.41
1561	1177130.36	726726.42	115.41
1562	1177125.76	726728.99	114.50
1563	1177095.12	726737.36	115.41
1564	1177096.47	726740.66	113.11
1565	1177083.65	726745.77	112.50
1566	1177069.84	726750.68	112.50
1567	1177045.07	726758.22	112.78
1568	1176993.61	726773.88	113.35
1569	1176937.91	726790.84	113.97
1570	1176900.26	726823.98	114.50
1571	1176880.16	726844.45	114.14
1572	1176842.64	726859.92	113.64
1573	1176798.40	726878.16	113.04
1574	1176772.07	726889.02	112.69
1575	1176757.28	726891.82	112.50
1576	1176736.80	726800.00	123.46
1577	1176738.80	726802.24	123.47
1578	1176771.57	726770.16	136.56
1579	1176773.51	726772.46	136.59
1580	1177432.08	726400.00	120.05
1581	1177434.26	726402.18	118.79
1582	1177405.68	726430.20	128.70
1583	1177407.84	726432.29	127.47
1584	1177144.00	726608.75	150.41
1585	1177129.72	726616.59	150.41
1586	1177100.00	726625.90	150.41
1587	1177050.00	726641.42	150.41
1588	1177041.60	726644.03	150.41
1589	1177038.74	726644.92	150.41
1590	1177000.00	726656.95	150.41
1591	1176950.00	726672.47	150.41
1592	1176929.10	726678.96	150.41
1593	1176908.23	726685.44	150.41
1594	1176882.98	726696.28	150.41
1595	1176859.57	726714.38	150.41
1596	1176833.75	726738.64	150.41
1597	1176821.46	726750.16	150.41
1598	1176815.84	726752.04	150.41
1599	1176813.14	726750.72	150.41
1600	1176810.09	726741.06	150.41

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

DRAWING TITLE
TOP OF FINAL CLOSURE GRADING CONTROL POINTS TABLE - 1

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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.21 | DWN. BY: SDA | Q/A RVW BY: CEH
DSN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993321GRAD-CNTRL

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. **13** of 24

G:\PROJECT\Hardee\09199033.21\CONSTRUCTION\993321GRAD-CNTRL.dwg Oct 06, 2010 - 9:32am Layout Name: Final Closure Points Table 1 of 2 By: 2378sda

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	726550.00	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	726467.60	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	86.18
1699	1176905.29	726957.83	85.13
1700	1176903.34	726955.55	85.13

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	1177150.09	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	140.96
1821	1177356.17	726425.32	139.80
1822	1177369.04	726433.44	138.82
1823	1177376.27	726443.19	138.04
1824	1177380.44	726458.97	136.99
1825	1177379.01	726458.97	136.94
1826	1177379.00	726465.16	136.94
1827	1177378.91	726500.00	136.94
1828	1177378.84	726540.11	136.94
1829	1177378.03	726550.17	136.94
1830	1177375.57	726559.97	136.94
1831	1177371.97	726568.28	136.94
1832	1177365.97	726577.69	136.94
1833	1177359.12	726585.09	136.94
1834	1177357.30	726586.11	136.92
1835	1177068.43	726542.25	166.88
1836	1176999.38	726552.09	168.50
1837	1176950.00	726552.47	168.50
1838	1176950.00	726559.77	168.87
1839	1176950.00	726567.42	168.50
1840	1176909.07	726552.79	168.50
1841	1176909.13	726580.11	168.50
1842	1176920.73	726564.33	169.00
1843	1176666.45	726877.96	101.44
1844	1176650.00	726800.00	101.81
1845	1176640.00	726750.00	100.91
1846	1176640.00	726700.00	102.15
1847	1176640.00	726650.00	102.44
1848	1176640.00	726600.00	102.19
1849	1176640.00	726550.00	101.79
1850	1176640.00	726500.00	101.54
1851	1176640.00	726450.00	101.31
1852	1176640.00	726400.00	101.07
1853	1176640.00	726350.00	100.75
1854	1176650.00	726285.00	100.06
1855	1176700.00	726285.00	101.46
1856	1176750.00	726285.00	102.55
1857	1176800.00	726285.00	102.06
1858	1176850.00	726285.00	101.57
1859	1176900.00	726285.00	101.29
1860	1176950.00	726285.00	101.02
1861	1177000.00	726285.00	101.57
1862	1177050.00	726285.00	102.23
1863	1177100.00	726285.00	102.47
1864	1177150.00	726285.00	102.44
1865	1177200.00	726285.00	102.31
1866	1177250.00	726285.00	102.04
1867	1177300.00	726285.00	101.77
1868	1177350.00	726285.00	101.52
1869	1177400.00	726285.00	101.29
1870	1177450.00	726285.00	101.02
1871	1177510.00	726285.00	97.56
1872	1177510.00	726400.00	100.18
1873	1177510.00	726450.00	99.94
1874	1177510.00	726500.00	99.86
1875	1177510.00	726550.00	99.86
1876	1177510.00	726600.00	100.02
1877	1177510.00	726650.00	100.05
1878	1177500.00	726681.71	98.56
1879	1177450.00	726700.00	99.05
1880	1177400.00	726718.31	98.84
1881	1177350.00	726736.61	98.58
1882	1177300.00	726754.92	98.93
1883	1177250.00	726773.22	99.56
1884	1177200.00	726791.52	99.67
1885	1177150.00	726809.82	99.46
1886	1177030.96	726800.00	105.48
1887	1177000.00	726823.64	101.88
1888	1176965.48	726850.00	99.96
1889	1176932.57	726875.13	101.37
1890	1176900.00	726900.00	100.86
1891	1176850.00	726919.45	101.30
1892	1176800.00	726938.90	100.70
1893	1176750.00	726958.35	98.83
1894	1177271.52	726575.05	140.58
1895	1177236.98	726600.00	138.37
1896	1177200.00	726626.72	136.07
1897	1177150.00	726662.84	132.89
1898	1177100.00	726688.90	130.36
1899	1177050.00	726705.18	130.12
1900	1177000.00	726721.46	129.88

TOP OF FINAL CLOSURE GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
1901	1176950.00	726737.74	129.64
1902	1176900.00	726764.29	129.06
1903	1176850.00	726804.84	129.83
1904	1176800.00	726822.62	130.31
1905	1176763.49	726827.23	127.80
1906	1176750.00	726750.00	130.62
1907	1176750.00	726700.00	132.10
1908	1176750.00	726650.00	132.44
1909	1176750.00	726600.00	132.18
1910	1176750.00	726550.00	131.78
1911	1176750.00	726500.00	131.54
1912	1176750.00	726450.00	131.30
1913	1176750.00	726390.00	127.90
1914	1176800.00	726390.00	130.39
1915	1176850.00	726390.00	129.90
1916	1176900.00	726390.00	129.62
1917	1176950.00	726390.00	129.35
1918	1177000.00	726390.00	129.88
1919	1177050.00	726390.00	130.54
1920	1177100.00	726390.00	130.80
1921	1177150.00	726390.00	130.77
1922	1177200.00	726390.00	130.61
1923	1177250.00	726390.00	130.36
1924	1177300.00	726390.00	130.09
1925	1177350.00	726390.00	129.84
1926	1177415.00	726390.00	124.52
1927	1177415.00	726450.00	124.96
1928	1177415.00	726500.00	124.90
1929	1177415.00	726550.00	124.92
1930	1177415.00	726600.00	123.75
1931	1177400.00	726615.09	123.97
1932	1177350.00	726640.71	122.06
1933	1177300.00	726666.33	121.29
1934	1177050.00	726600.00	156.93
1935	1177000.00	726615.07	157.08
1936	1176950.00	726630.15	157.22
1937	1176900.00	726645.22	157.36
1938	1176883.87	726650.00	157.69
1939	1176845.00	726600.00	157.17
1940	1176845.00	726550.00	156.77
1941	1176850.00	726495.00	156.40
1942	1176900.00	726495.00	157.95
1943	1176950.00	726495.00	157.68
1944	1177000.00	726495.00	158.15
1945	1177050.00	726495.00	158.74
1946	1177100.00	726535.39	163.86
1947	1177150.00	726524.40	159.01
1948	1177200.00	726513.41	154.19
1949	1177250.00	726502.42	149.35
1950	1177300.00	726491.43	144.66
1951	1177350.00	726450.00	139.89
1952	1177350.00	726500.00	139.81
1953	1177027.02	726891.76	88.38
1954	1176984.49	726916.40	87.37
1955	1176640.60	726235.11	–
1956	1177037.02	726247.49	–
1957	1177037.02	726238.70	–
1958	1177290.44	726247.20	–
1959	1177290.44	726238.71	–

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
△	08/09/10	ISSUED FOR BID	SRF
△	10/06/10	CONFORMED DRAWING	SRF

DRAWING TITLE
TOP OF FINAL CLOSURE GRADING CONTROL POINTS TABLE - 2

PROJECT TITLE
HARDEE COUNTY LANDFILL PHASE I CLOSURE CONSTRUCTION DRAWINGS

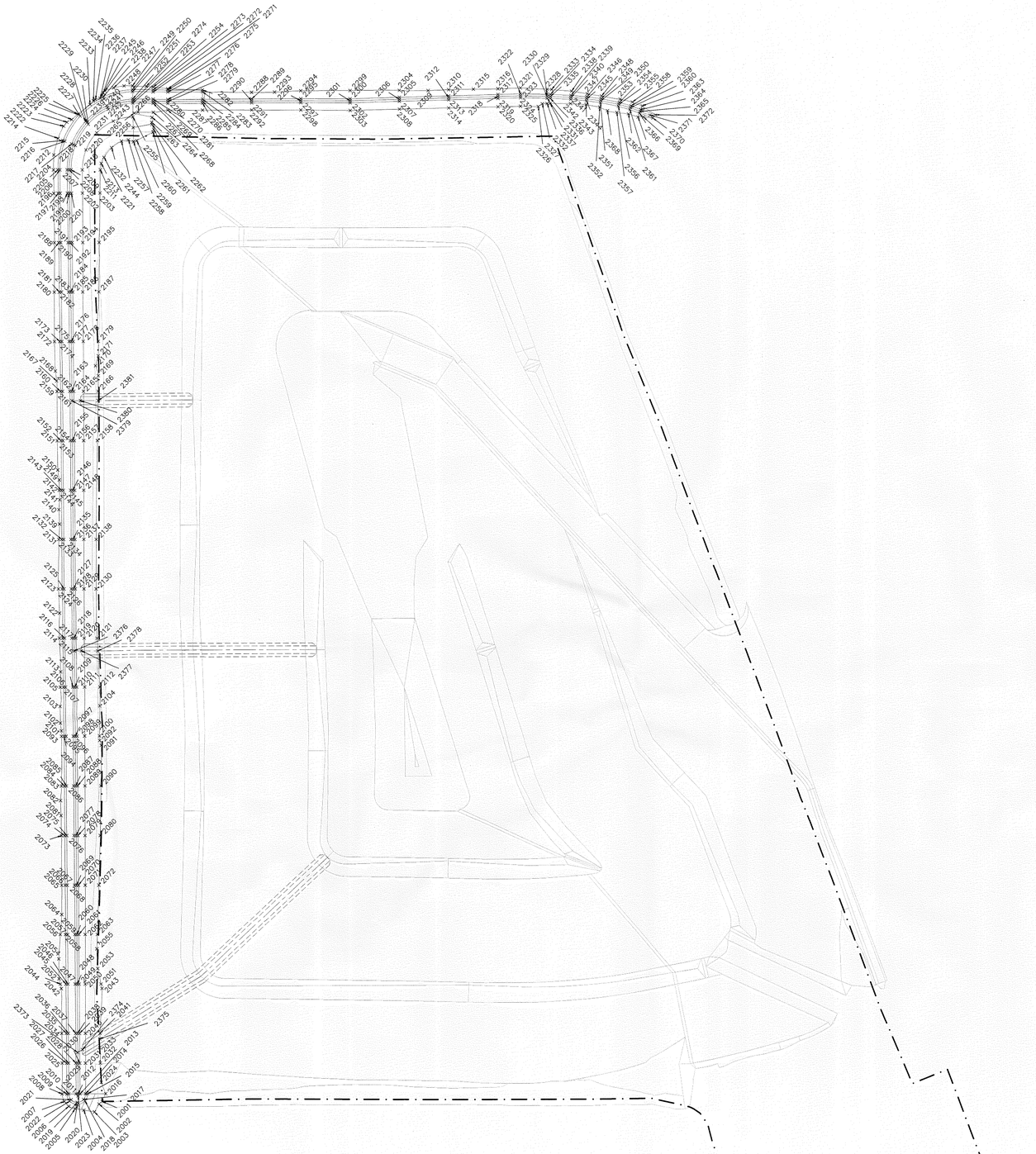
CLIENT
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

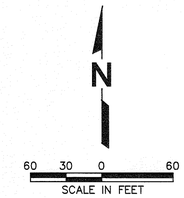
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.21 | DWN. BY: SDA | Q/A RVW BY: CEH
DSN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993321GRAD-CNTRL
DATE: JUNE 2010
SCALE: AS SHOWN
DRAWING NO. **14** of 24

G:\PROJECT\Hardee\09199033.21\CONSTRUCTION\993321GRAD-CNTRL.dwg Oct 06, 2010 - 9:33am Layout Name: Final Closure Points Table 2 of 2 By: 2378sda





LEGEND

+2001 — HORIZONTAL AND VERTICAL CONTROL POINT AND IDENTIFICATION NUMBER (SEE DRAWING NO. 16 FOR NORTHING AND EASTING COORDINATES AND ELEVATIONS.)

VERTICAL GRADE BREAK/TRANSITION LINE

EXISTING PHASE I EDGE OF LINER

NOTES:

1. GRADING CONTROL POINTS SHOWN AROUND THE PERIMETER ARE APPROXIMATE LOCATIONS WHERE THE NEW PERIMETER SWALE AND ROADWAY TIE TO EXISTING GRADE OR NEWLY CONSTRUCTED PHASE I FINAL COVER. IN ORDER TO MAINTAIN SET DESIGN SLOPES, ACTUAL HORIZONTAL AND VERTICAL TIE-IN LOCATIONS MAY VARY BASED ON EXISTING GRADE CONDITIONS AT THE TIME OF CONSTRUCTION.
2. GRADING CONTROL POINT NUMBERS 2373 THROUGH 2381 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 NO. 23.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

DRAWING TITLE
TOP OF PERIMETER SWALE 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
813 621-0690 FAX 813 623-0757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO: 09J9033.21 | DWN. BY: SDA | CHK. BY: SRF | QA REVIEW BY: CEH | APP. BY: SRF | DSN. BY: SRF

CADD FILE: 993321GRAD-CNTRL

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. **15** of **24**

G:\SWS-EC\Hardee\09J9033.21\Civil\Sheets\Phase III\993321GRAD-CNTRL.dwg, 8.5x11 Landscape, Perimeter Swale Grid Plan By: srfisher, Oct 06, 2010 - 9:43am

TOP OF PERIMETER 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 PERIMETER 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 PERIMETER 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	726216.10	83.16
2218	1177548.76	726217.95	83.16
2219	1177547.99	726219.79	83.16
2220	1177543.52	726230.60	87.00
2221	1177535.86	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	1177578.94	726223.62	85.60
2227	1177577.53	726225.04	85.60
2228	1177572.22	726230.34	83.10
2229	1177570.81	726231.76	83.10
2230	1177569.39	726233.17	83.10
2231	1177560.63	726241.93	87.00
2232	1177545.40	726257.16	87.54
2233	1177589.58	726235.34	85.46
2234	1177593.13	726238.81	86.00
2235	1177594.33	726240.94	85.97
2236	1177595.62	726245.75	85.57
2237	1177598.99	726247.85	84.79
2238	1177596.94	726248.70	85.53
2239	1177595.09	726249.46	85.53
2240	1177588.16	726252.34	83.03
2241	1177586.31	726253.10	83.04
2242	1177584.46	726253.87	83.04
2243	1177572.17	726258.96	87.00
2244	1177552.00	726267.31	87.29
2245	1177601.03	726248.65	84.28
2246	1177602.83	726250.64	83.98
2247	1177605.93	726259.64	83.93
2248	1177607.87	726270.28	83.99
2249	1177607.83	726278.89	84.24
2250	1177604.16	726278.97	85.47
2251	1177602.16	726279.01	85.47
2252	1177594.66	726279.16	82.97
2253	1177592.66	726279.16	82.97
2254	1177590.66	726279.16	82.97
2255	1177576.34	726279.17	87.00
2256	1177565.59	726279.32	87.12
2257	1177553.25	726274.34	87.24
2258	1177551.35	726279.53	87.28
2259	1177552.40	726282.88	86.99
2260	1177560.88	726299.52	85.50
2261	1177563.77	726300.35	85.40
2262	1177568.63	726298.59	85.48
2263	1177570.63	726298.40	85.47
2264	1177575.81	726298.68	85.38
2265	1177580.34	726280.68	86.00
2266	1177581.45	726284.44	86.00
2267	1177581.11	726300.00	85.98
2268	1177590.29	726300.00	82.92
2269	1177592.29	726300.00	82.92
2270	1177594.29	726300.00	82.92
2271	1177601.79	726300.00	85.42
2272	1177603.79	726300.00	85.42
2273	1177606.56	726300.00	84.50
2274	1177607.36	726293.08	84.29
2275	1177604.70	726314.93	84.99
2276	1177603.51	726314.92	85.39
2277	1177601.51	726314.90	85.39
2278	1177594.01	726314.83	82.89
2279	1177592.01	726314.81	82.89
2280	1177590.01	726314.79	82.89
2281	1177583.27	726314.73	85.14
2282	1177603.50	726350.31	85.32
2283	1177601.50	726350.31	85.32
2284	1177594.00	726350.30	82.82
2285	1177592.00	726350.30	82.82
2286	1177590.00	726350.30	82.82
2287	1177583.09	726350.30	85.12
2288	1177600.53	726400.00	84.90
2289	1177594.00	726400.00	82.72
2290	1177592.00	726400.00	82.72
2291	1177590.00	726400.00	82.72
2292	1177582.74	726400.00	85.14
2293	1177600.66	726423.27	84.89
2294	1177601.97	726450.00	85.28
2295	1177593.98	726450.00	82.62
2296	1177591.98	726450.00	82.62
2297	1177589.98	726450.00	82.62
2298	1177582.60	726450.00	85.08
2299	1177602.00	726500.00	85.26
2300	1177593.77	726499.77	82.52

TOP OF PERIMETER SWALE GRADING CONTROL TABLE			
POINT NUMBER	NORTHING	EASTING	ELEVATION
2301	1177591.77	726499.79	82.52
2302	1177589.77	726499.81	82.52
2303	1177581.92	726499.89	85.13
2304	1177602.04	726550.00	84.75
2305	1177595.04	726550.00	82.42
2306	1177593.04	726550.00	82.42
2307	1177591.04	726550.00	82.42
2308	1177583.08	726550.00	85.07
2309	1177601.72	726579.08	84.34
2310	1177602.55	726600.00	84.40
2311	1177596.30	726600.00	82.32
2312	1177594.30	726600.00	82.32
2313	1177592.30	726600.00	82.32
2314	1177584.18	726600.00	85.02
2315	1177602.93	726625.07	84.26
2316	1177603.24	726650.00	84.11
2317	1177597.54	726650.00	82.21
2318	1177595.54	726650.00	82.21
2319	1177593.54	726650.00	82.21
2320	1177585.12	726650.00	85.02
2321	1177604.05	726672.83	84.15
2322	1177598.10	726672.83	82.17
2323	1177596.10	726672.83	82.17
2324	1177594.10	726672.83	82.17
2325	1177585.56	726672.83	85.02
2326	1177585.16	726690.95	84.96
2327	1177587.98	726695.02	83.99
2328	1177602.57	726700.00	83.82
2329	1177597.45	726700.00	82.11
2330	1177595.45	726700.00	82.11
2331	1177593.45	726700.00	82.11
2332	1177588.15	726700.00	83.88
2333	1177602.26	726704.50	83.76
2334	1177597.37	726703.30	82.11
2335	1177595.37	726703.23	82.11
2336	1177593.37	726703.15	82.11
2337	1177588.29	726702.96	83.80
2338	1177600.44	726724.79	83.47
2339	1177596.27	726724.21	82.07
2340	1177594.27	726724.07	82.07
2341	1177592.28	726723.92	82.07
2342	1177587.98	726723.60	83.50
2343	1177586.98	726739.40	83.30
2344	1177590.75	726739.85	82.03
2345	1177592.74	726740.08	82.03
2346	1177594.73	726740.31	82.03
2347	1177597.83	726740.67	83.07
2348	1177595.51	726755.14	82.94
2349	1177592.74	726754.67	82.00
2350	1177590.77	726754.34	82.00
2351	1177588.79	726754.00	82.00
2352	1177584.37	726753.25	83.50
2353	1177592.20	726774.05	83.07
2354	1177588.98	726773.25	81.97
2355	1177587.04	726772.76	81.97
2356	1177585.10	726772.28	81.97
2357	1177578.86	726770.73	84.11
2358	1177589.22	726786.52	83.28
2359	1177585.43	726785.25	81.94
2360	1177583.53	726784.61	81.94
2361	1177581.64	726783.97	81.94
2362	1177577.25	726782.50	83.48
2363	1177585.32	726796.56	83.22
2364	1177581.68	726795.19	81.92
2365	1177579.81	726794.48	81.92
2366	1177577.94	726793.77	81.92
2367	1177573.85	726792.23	83.38
2368	1177580.67	726761.18	84.17
2369	1177573.91	726797.74	82.97
2370	1177572.85	726807.24	82.64
2371	1177575.81	726804.37	82.45
2372	1177576.06	726810.06	82.71
2373	1176630.61	726218.70	–
2374	1176633.60	726223.62	–
2375	1176644.30	726241.20	–
2376	1177037.02	726216.24	–
2377	1177037.02	726223.62	–
2378	1177037.02	726240.47	–
2379	1177290.50	726214.70	–
2380	1177290.44	726223.62	–
2381	1177290.52	726241.29	–

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

DRAWING TITLE
TOP OF PERIMETER SWALE GRADING CONTROL POINTS TABLE

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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.21 | DWN. BY: SDA | Q/A RVW BY: CEH
DSN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993321GRAD-CNTRL
DATE: JUNE 2010
SCALE: AS SHOWN
DRAWING NO.

G:\PROJECT\Hardee\09199033.21\CONSTRUCTION\993321GRAD-CNTRL.dwg Oct 06, 2010 – 9:33am Layout Name: Perimeter Swale Points Table By: 2378sda

HORIZONTAL LFG TRENCH VENT SCHEDULE

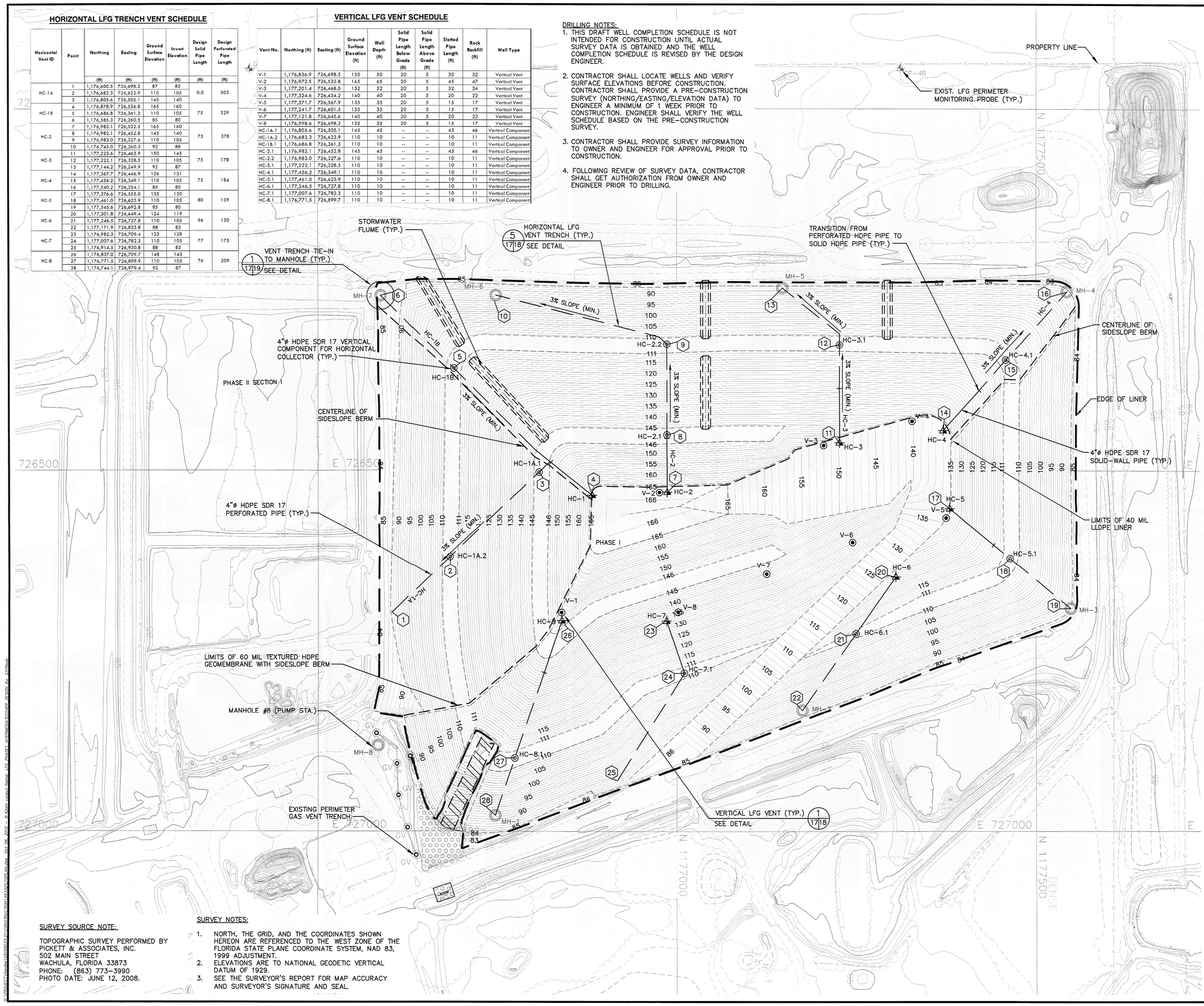
Horizontal Vent ID	Point	Northing	Easting	Ground Surface Elevation	Invert Elevation	Design Solid Pipe Length	Design Perforated Pipe Length
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
HC-1A	1	1,176,600.5	726,698.3	87	82	0.0	303
	2	1,176,682.3	726,622.9	110	105		
	3	1,176,805.6	726,505.1	145	140		
HC-1B	4	1,176,878.9	726,536.8	165	160	75	329
	5	1,176,686.8	726,361.3	110	105		
	6	1,176,585.3	726,260.5	85	80		
HC-2	7	1,176,983.1	726,532.5	165	160	75	378
	8	1,176,982.1	726,452.8	145	140		
	9	1,176,983.0	726,327.6	110	105		
HC-3	10	1,176,745.0	726,260.3	93	88	75	178
	11	1,177,223.6	726,463.9	150	145		
	12	1,177,222.1	726,328.5	110	105		
HC-4	13	1,177,144.2	726,249.9	92	87	75	184
	14	1,177,367.7	726,446.9	136	131		
	15	1,177,456.2	726,349.1	110	105		
	16	1,177,540.2	726,254.1	85	80		
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	1,177,545.6	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		
HC-8	25	1,176,914.5	726,930.8	88	83	76	209
	26	1,176,837.0	726,709.7	148	143		
	27	1,176,771.5	726,899.9	110	105		
	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	5	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	1,177,121.8	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	1,177,222.1	726,328.5	110	10	--	--	10	11	Vertical Component
HC-4.1	1,177,456.2	726,349.1	110	10	--	--	10	11	Vertical Component
HC-5.1	1,177,461.0	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	726,899.7	110	10	--	--	10	11	Vertical Component

DRILLING NOTES:

1. 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.
2. 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.
3. CONTRACTOR SHALL PROVIDE SURVEY INFORMATION TO OWNER AND ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
4. FOLLOWING REVIEW OF SURVEY DATA, CONTRACTOR SHALL GET AUTHORIZATION FROM OWNER AND ENGINEER PRIOR TO DRILLING.



N

60 30 0 60

SCALE IN FEET

LEGEND:

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

NOTES:

1. GRADES SHOWN ARE TOP OF INTERMEDIATE COVER CONTOURS.
2. EXCAVATED REFUSE SHALL BE HAULED ON A DAILY BASIS TO THE PHASE II SECTION I WORKING FACE OR OTHER LOCATION APPROVED BY THE OWNER.
3. 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.
4. CONTRACTOR SHALL COORDINATE SITE ACCESS AND SEQUENCING OF WORK WITH OWNER.
5. 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:

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.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

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
PHONE: (813) 854-2300, TAMPA, FL 33619
FAX NO. (813) 854-4057
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

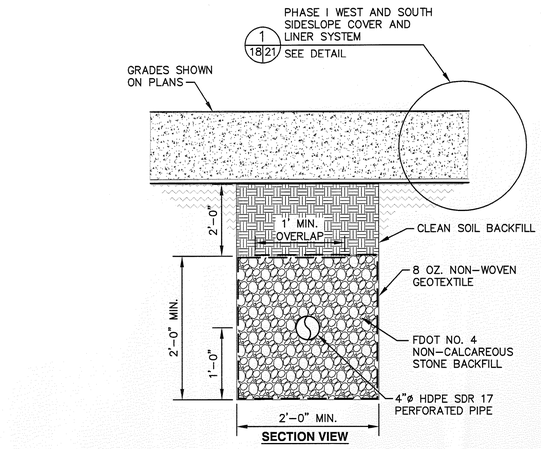
PROJ. NO.: 09199033.21 | DSN. BY: VKF/LEK | D/A. RVW. BY: CEH | APP'D. BY: SRF
DSN. BY: VKF/LEK | CHK. BY: LEK/SRF

CADD FILE: 993321LFGPLAN

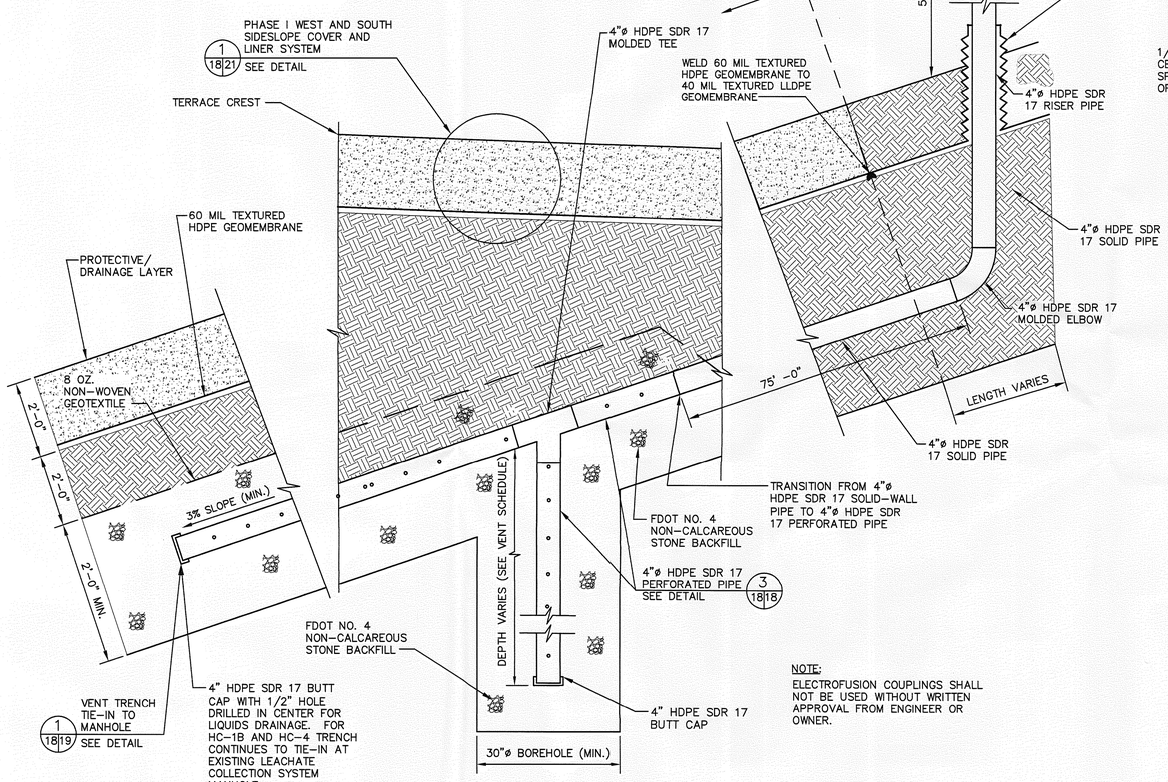
DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO.: 17 of 24

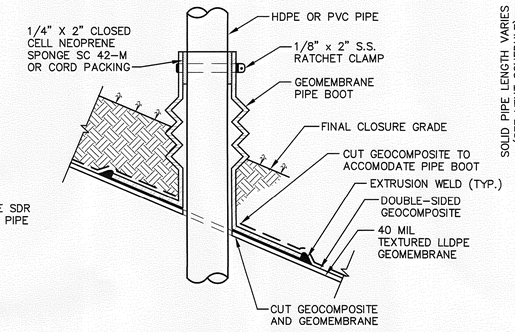


SECTION VIEW

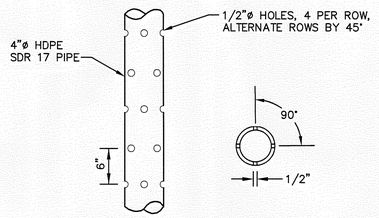


HORIZONTAL LANDFILL GAS (LFG) VENT TRENCH DETAIL (TYP.) 5 17|18
NOT TO SCALE

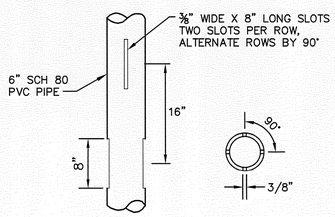
NOTE:
ELECTROFUSION COUPLINGS SHALL NOT BE USED WITHOUT WRITTEN APPROVAL FROM ENGINEER OR OWNER.



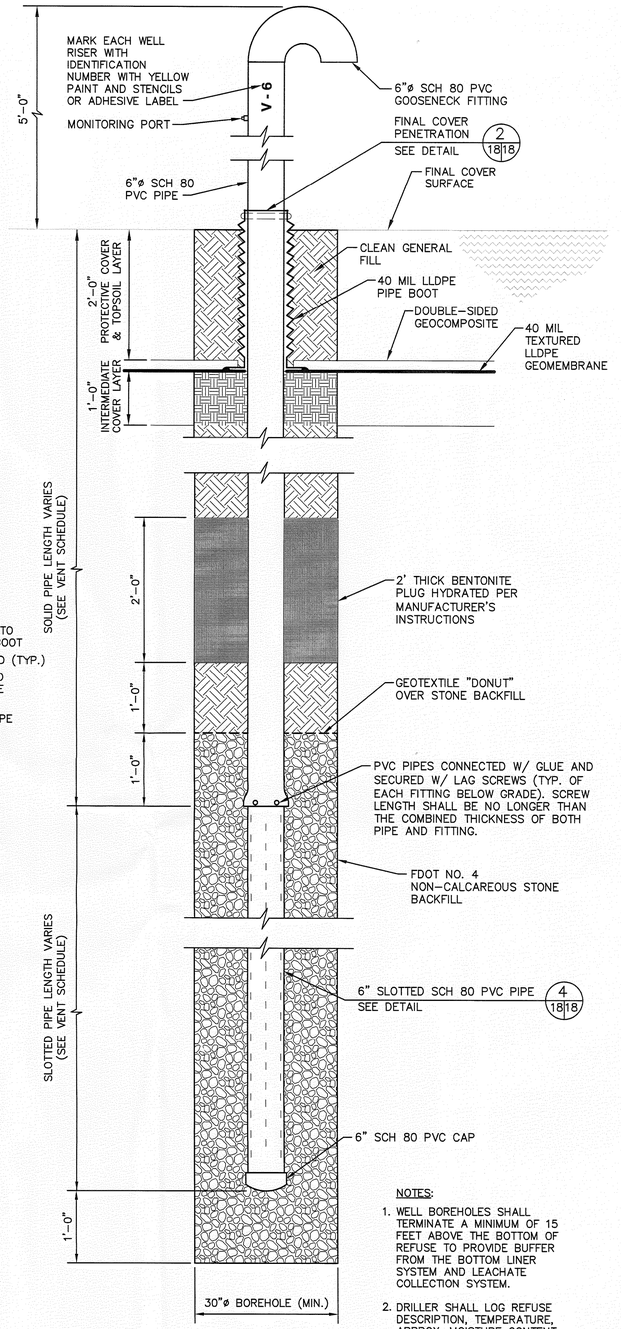
FINAL COVER PENETRATION DETAIL 2 18|18
NOT TO SCALE



PERFORATED PIPE DETAIL 3 18,19|18
NOT TO SCALE



SLOTTED PIPE DETAIL 4 18|18
NOT TO SCALE



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.

VERTICAL LANDFILL GAS (LFG) VENT DETAIL (TYP.) 1 17|18
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

DRAWING TITLE: **DETAILS - 1**

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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO: 09199033.21 | DSN. BY: VKF | DWN. BY: VKF | CHK. BY: LEK/SRF | D/A RVW BY: CEH | APP. BY: SRF

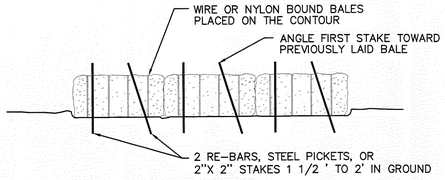
CADD FILE: 993321LFGDETL

DATE: JUNE 2010

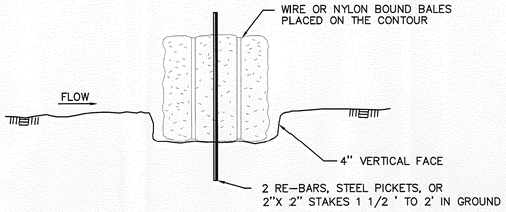
SCALE: AS SHOWN

DRAWING NO. **18** of **24**

C:\PROJECT\Hardee\09199033.21\CONSTRUCTION\993321\FGDETL.dgn Oct 06, 2010 - 9:46am Layout Name: LFGDetails 1 By: 3328ds



ANCHORING DETAIL

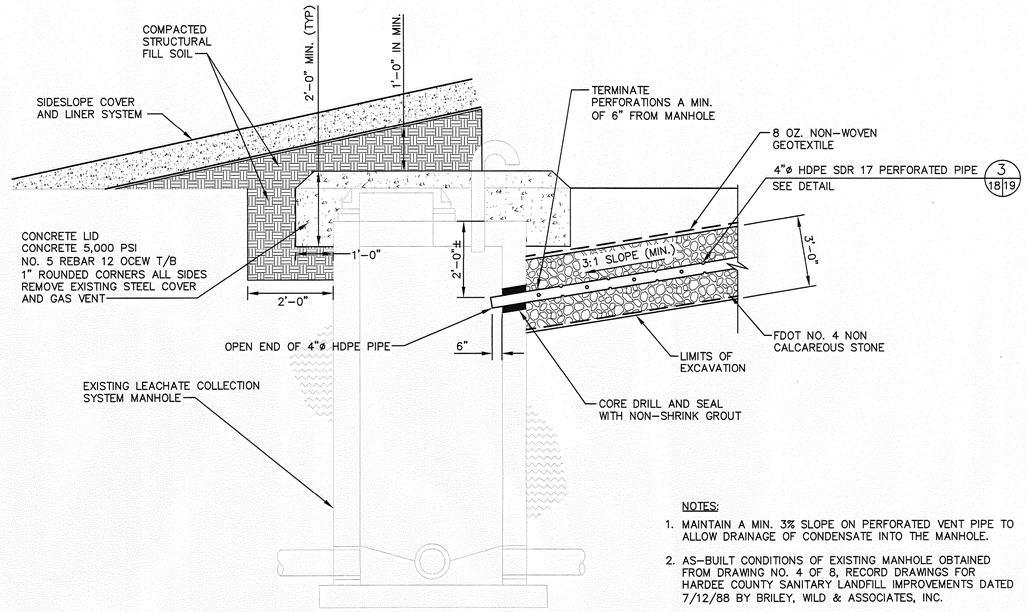


HAYBALE EMBEDDING DETAIL (TEMPORARY)

NOTES:

1. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR INCHES.
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY 3/8 INCH REBAR STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
3. INSPECTION SHALL BE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
4. WHEN SILT REACHES A DEPTH OF 6 INCHES, IT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE AS TO NOT CREATE A SILTATION PROBLEM.
5. AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE BALE AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED SPOIL DISPOSAL SITE.

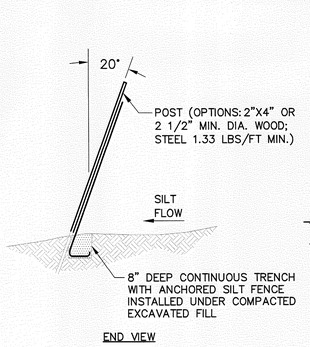
HAY BALE BARRIER DETAIL (3 / 6 | 19)
NOT TO SCALE



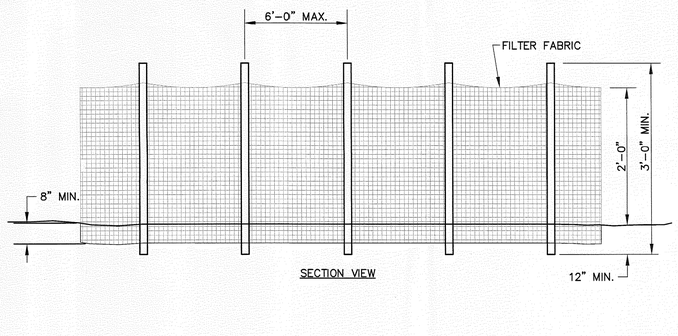
NOTES:

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, WILD & ASSOCIATES, INC.

VENT TRENCH TIE-IN TO MANHOLE DETAIL (1 / 17,18 | 19)
NOT TO SCALE



END VIEW



SECTION VIEW

TYPE III FDOT SILT FENCE BARRIER DETAIL (2 / 6 | 19)
NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

DRAWING TITLE: **DETAILS - 2**

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
400 NORTH ASHLEY DRIVE, SUITE 100, TAMPA, FL 33610
813 621-1080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.21 | DSN. BY: VKF | DWN. BY: VKF | CHK. BY: LEK/SRF | Q/A BY: CEH | APP. BY: SRF

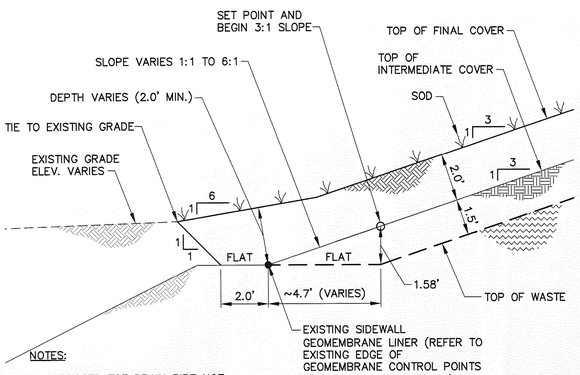
CADD FILE: 993321LFGDETL

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. **19** of **24**

G:\PROJECTS\Hardee\LFG\2010\A1\PLANS\DRAWINGS\LFGDETL.dgn Oct 08, 2010 - 8:45am layout Name: 4700x1700 2 By: ATTRIDGE

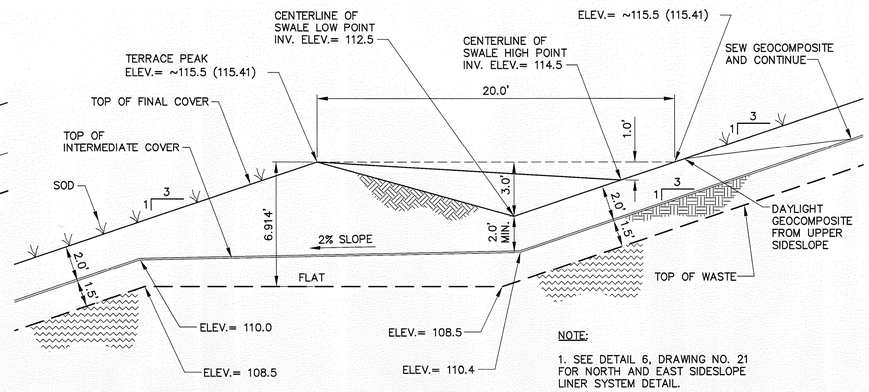


NOTES:

1. PROPOSED TOE DRAIN PIPE NOT SHOWN FOR CLARITY, SEE DETAIL 3, DRAWING NO. 22.

2. SEE DETAIL 6, DRAWING NO. 21 FOR NORTH AND EAST SIDESLOPE LINER SYSTEM DETAIL.

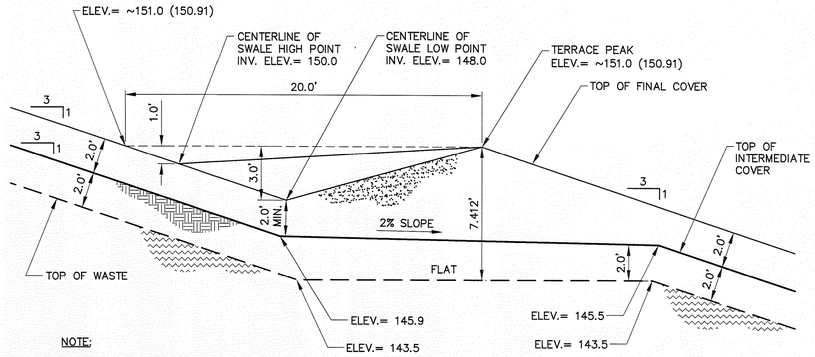
NORTH AND EAST SLOPE TOE DETAIL 1
SCALE: 1" = 3'



NOTE:

1. SEE DETAIL 6, DRAWING NO. 21 FOR NORTH AND EAST SIDESLOPE LINER SYSTEM DETAIL.

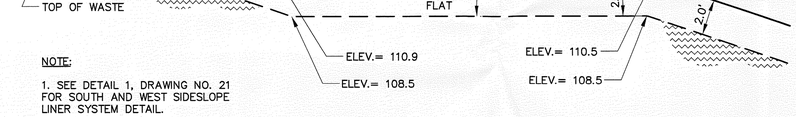
NORTH AND EAST SLOPE MIDDLE TERRACE DETAIL 2
SCALE: 1" = 4'



NOTE:

1. SEE DETAIL 1, DRAWING NO. 21 FOR SOUTH AND WEST SIDESLOPE LINER SYSTEM DETAIL.

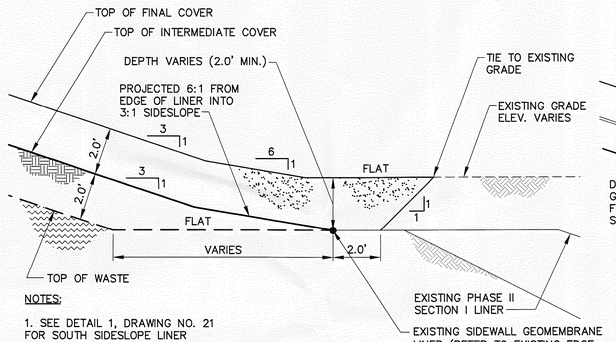
SOUTH AND WEST SLOPE TOP TERRACE DETAIL 3
SCALE: 1" = 4'



NOTE:

1. SEE DETAIL 1, DRAWING NO. 21 FOR SOUTH AND WEST SIDESLOPE LINER SYSTEM DETAIL.

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

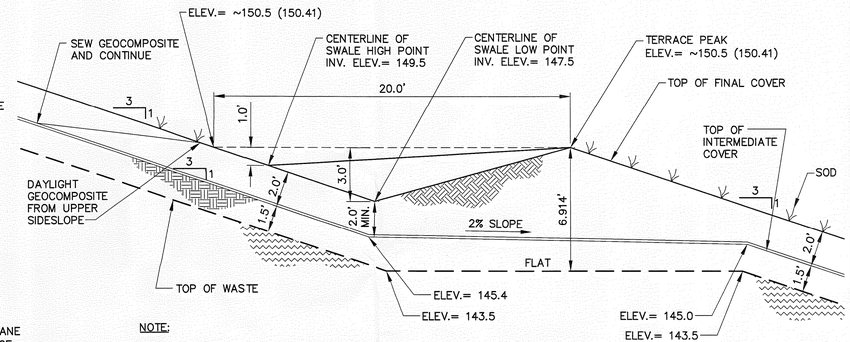


NOTES:

1. SEE DETAIL 1, DRAWING NO. 21 FOR SOUTH SIDESLOPE LINER SYSTEM DETAIL.

2. SEE DETAIL 2, DRAWING NO. 21 FOR PHASE I/PHASE II SECTION I EDGE OF LINER DETAIL.

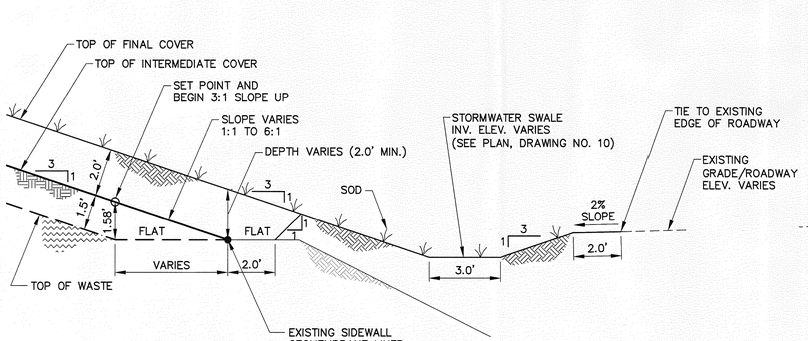
SOUTH SLOPE TOE DETAIL 5
SCALE: 1" = 3'



NOTE:

1. SEE DETAIL 6, DRAWING NO. 21 FOR EAST SIDESLOPE LINER SYSTEM DETAIL.

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

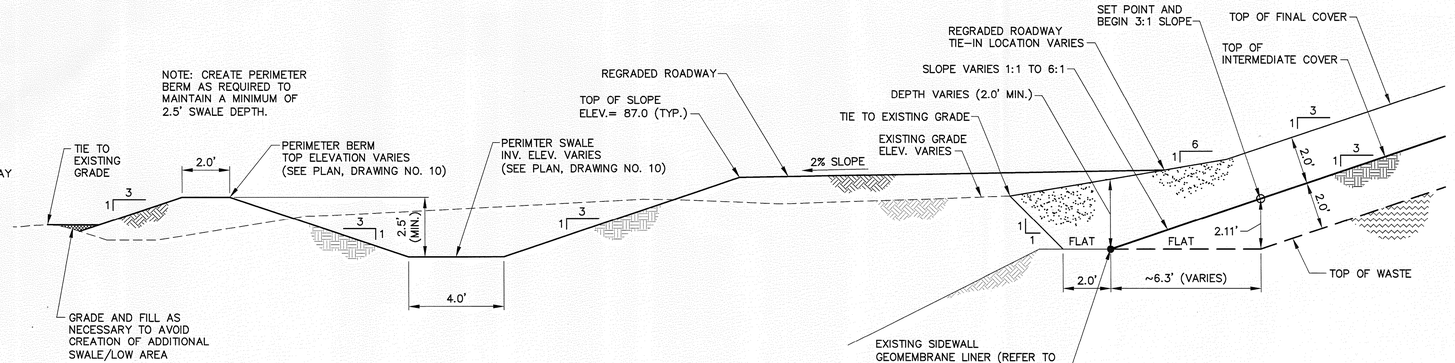


NOTES:

1. PROPOSED TOE DRAIN PIPE NOT SHOWN FOR CLARITY, SEE DETAIL 3, DRAWING NO. 22.

2. SEE DETAIL 1, DRAWING NO. 21 FOR EAST SIDESLOPE LINER SYSTEM DETAIL.

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



LEGEND

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

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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

DRAWING TITLE: DETAILS - 3

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 MACDILL BLVD, SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO: 09199033.21
DSN. BY: SRF
DWN. BY: SDA/CTN
CHK. BY: SRF
O/A APVD BY: CEH
APP. BY: SRF

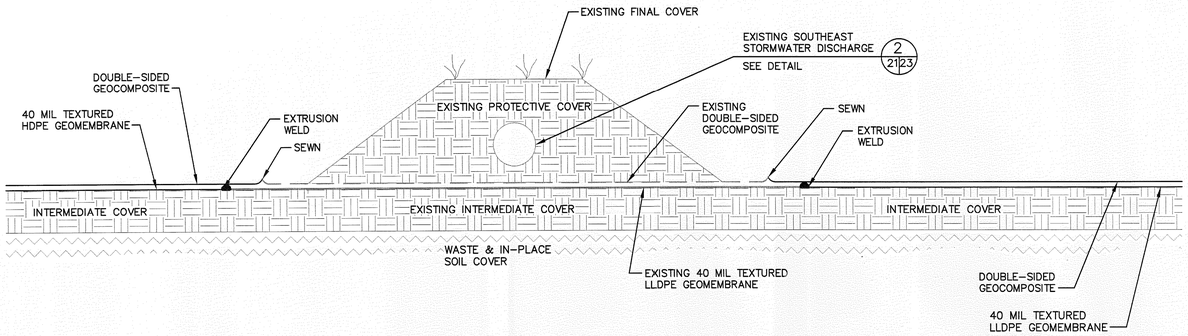
CADD FILE: 993321DETAILS1

DATE: JUNE 2010

SCALE: AS SHOWN

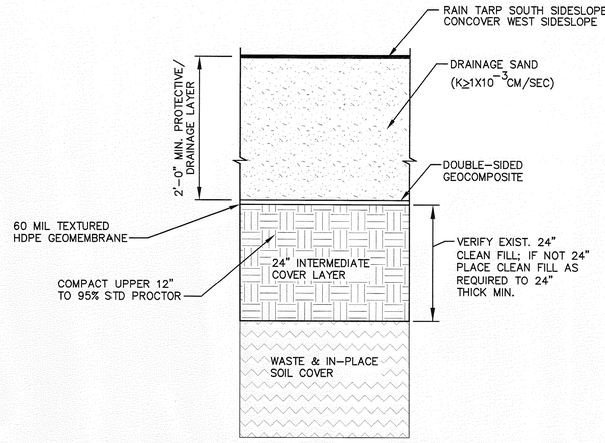
DRAWING NO. 20 of 24

O:\HARDEE\CT\Hardee\09199033.21\CONSTRUCTION\993321DETAILS1.dgn Oct 06, 2010 - 9:55am Leonel Alonso Grafton Beholz Rp: 23"x36"



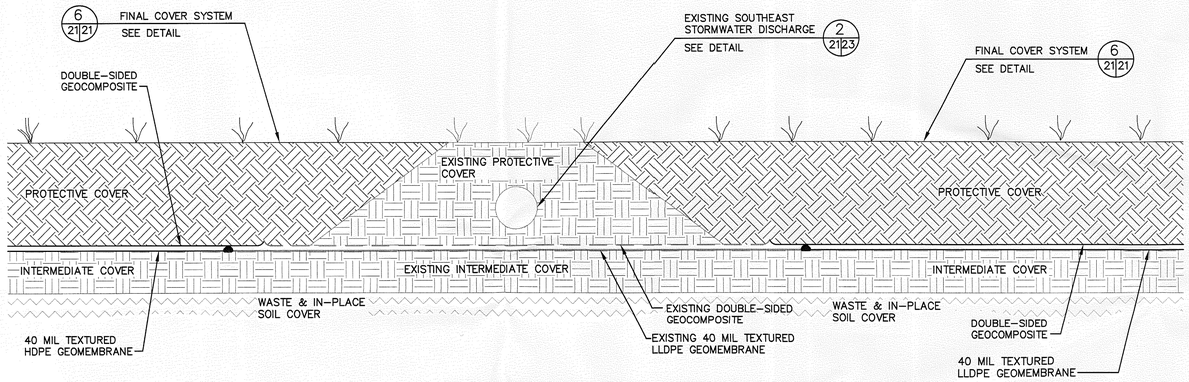
TIE-IN TO EXISTING GEOSYNTHETICS SOUTHEAST STORMWATER DISCHARGE 4 | 7 | 21

NOT TO SCALE



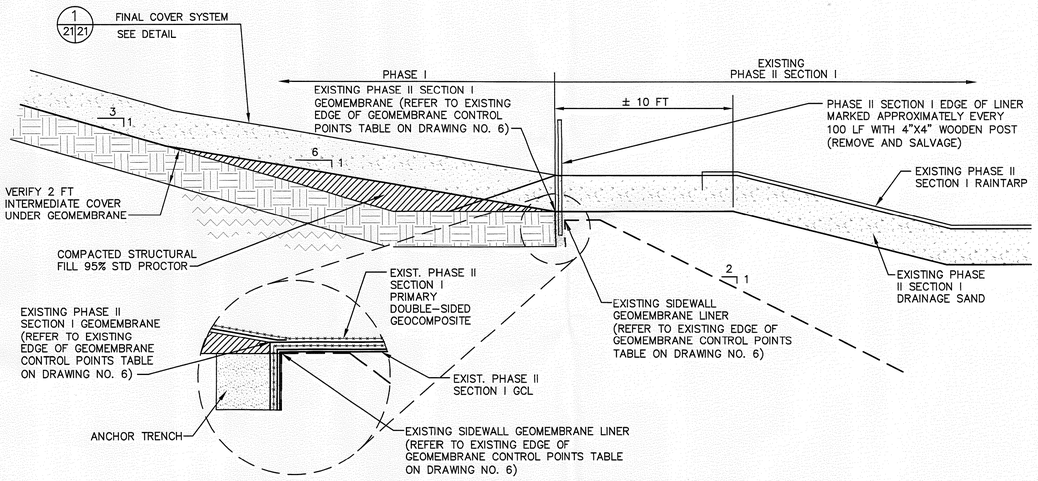
PHASE I WEST AND SOUTH SIDESLOPE COVER AND LINER SYSTEM DETAIL 1 | 10 | 21

NOT TO SCALE



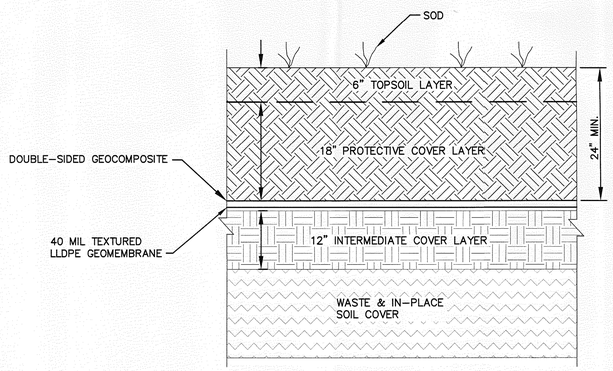
FINAL COVER TIE-IN OF GEOSYNTHETICS TO SOUTHEAST STORMWATER DISCHARGE 5 | 10 | 21

NOT TO SCALE



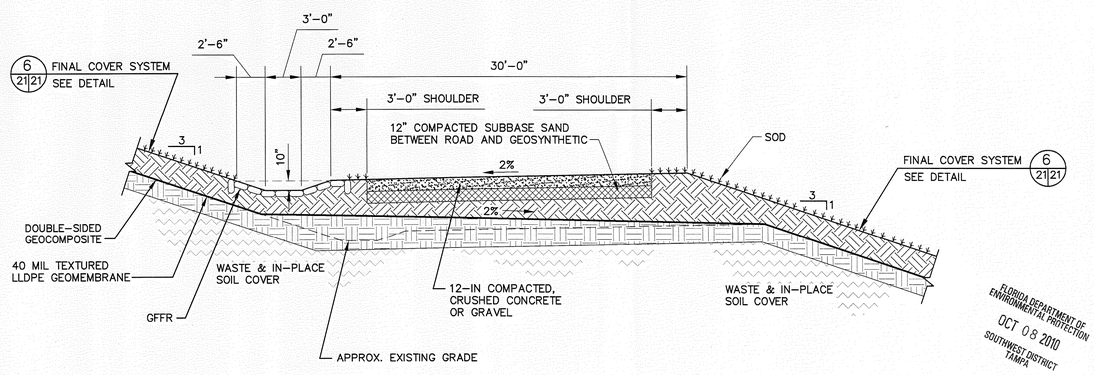
PHASE I/PHASE II SECTION I EDGE OF LINER DETAIL 2 | 10 | 21

SCALE: 1" = 4'



PHASE I TOP, NORTH AND EAST FINAL COVER SYSTEM DETAIL 6 | 10 | 21

NOT TO SCALE



PHASE I TYPICAL PERMANENT ACCESS RAMP DETAIL 3 | 10 | 21

SCALE: 1" = 6'

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

SHANE R. FISCHER, P.E. LICENSE NO. 58026

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
400 N. ASHLEY DRIVE, SUITE 1800, TAMPA, FL 33610
813-621-0080 FAX 813-623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.21 | DWN. BY: CTN/JDA | CHK. BY: SRF | Q/A REVIEW BY: CEH | APP. BY: SRF | DSN. BY: SRF

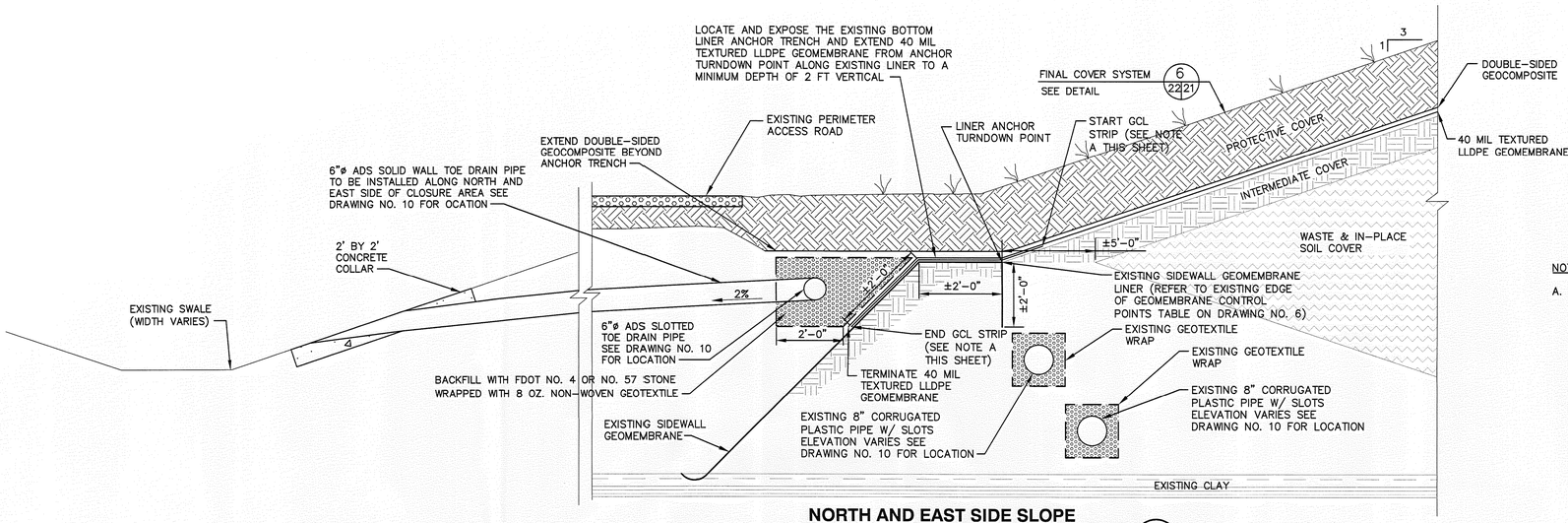
CADD FILE: 993321DETAILS2

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. 21 of 24

C:\SCS ENGINEERS\09199033.21 HARDEE COUNTY\CONSTRUCTION\993321DETAILS2.dgn Oct 06, 2010 - 10:01am Leonel Gomez Layout: Fig. 21Dets

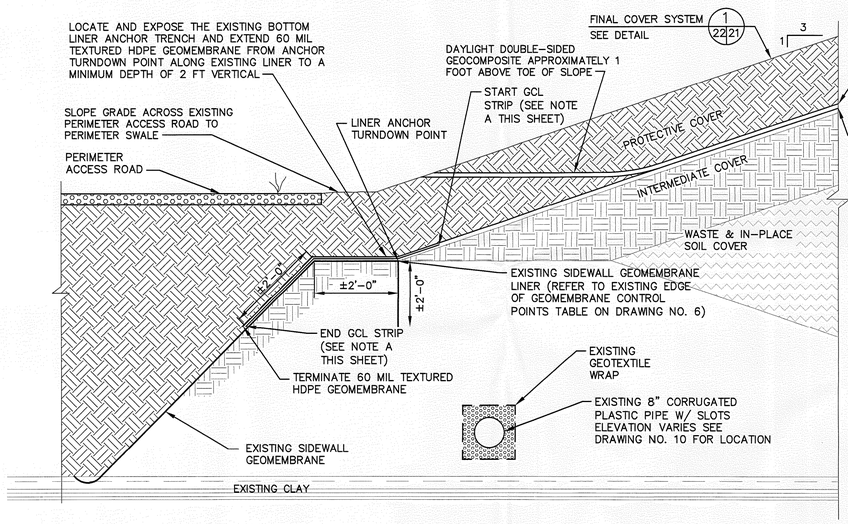


NORTH AND EAST SIDE SLOPE TYPICAL FINAL COVER TOE DETAIL 3 10 22

NOT TO SCALE

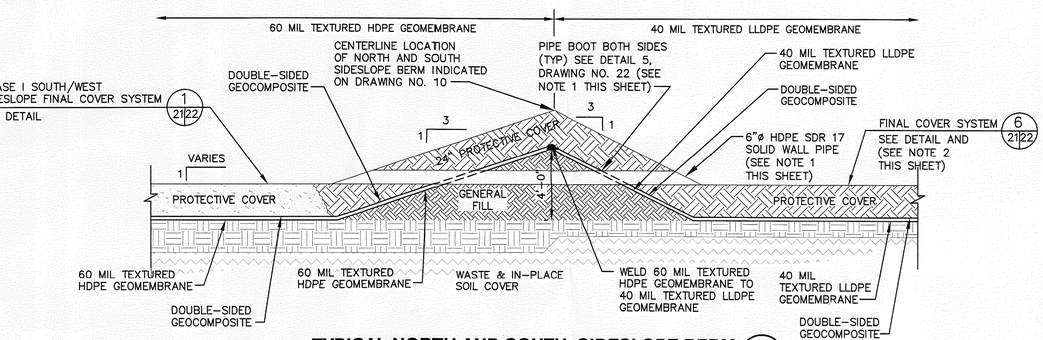
NOTE:

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 10 22

NOT TO SCALE

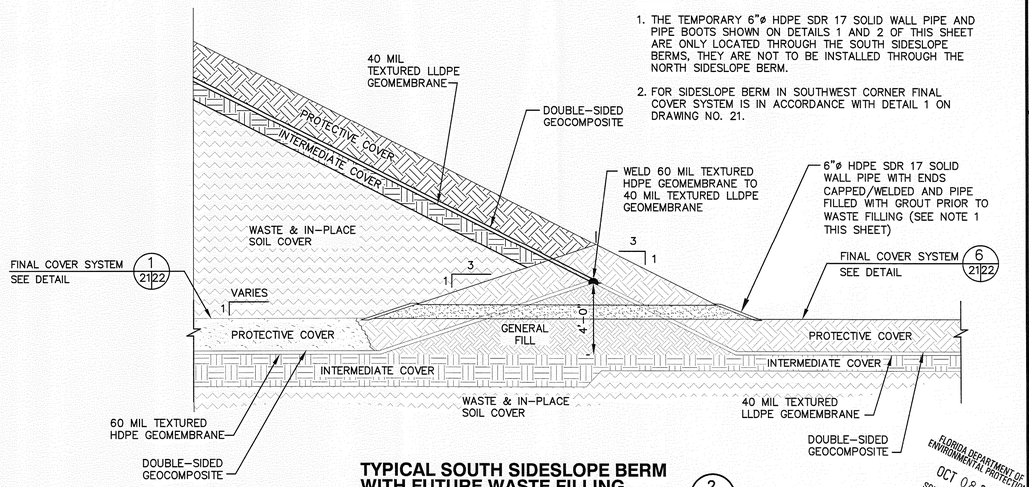


TYPICAL NORTH AND SOUTH SIDESLOPE BERM 1 7,10 22

NOT TO SCALE

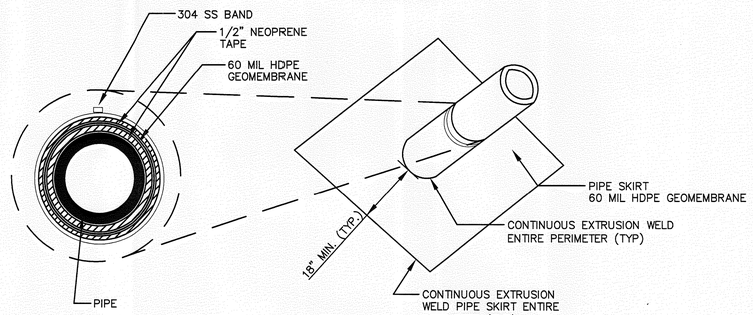
NOTES:

1. THE TEMPORARY 6"ø 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 DRAWING NO. 21.



TYPICAL SOUTH SIDESLOPE BERM WITH FUTURE WASTE FILLING 2 22 22

NOT TO SCALE



TYPICAL PIPE BOOT DETAIL 5 22 22

NOT TO SCALE

CONFORMED

DATE: 10/06/2010

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

SHANE R. FISHER, P.E.
LICENSE NO. 68026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

DRAWING TITLE: DETAILS - 5

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
813.621.0090 FAX 813.623.6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

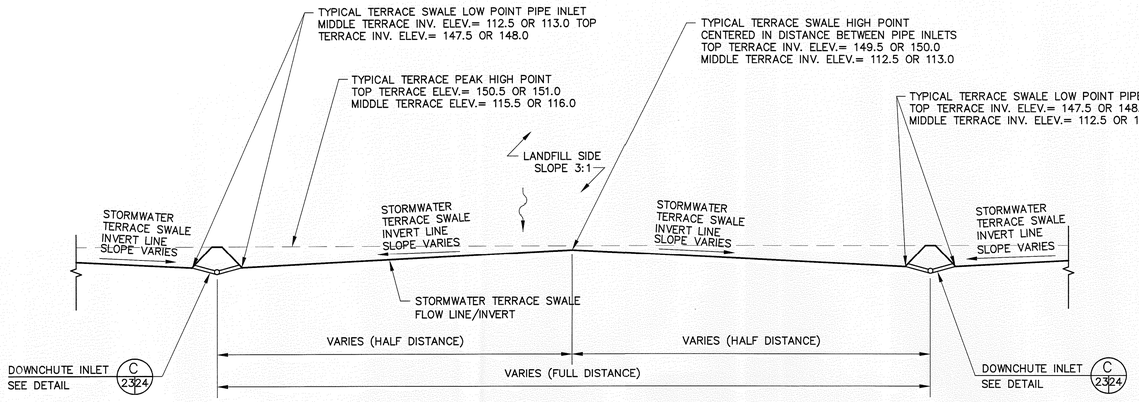
PROJ. NO. 091990033.21 | DWN. BY: CTN/SDA | CK'A RVW. BY: CEH | APP. BY: SRF | DSN. BY: SRF | CHK. BY: SRF

CADD FILE: 993321DETAILS2

DATE: JUNE 2010

SCALE: AS SHOWN

DRAWING NO. 22 of 24

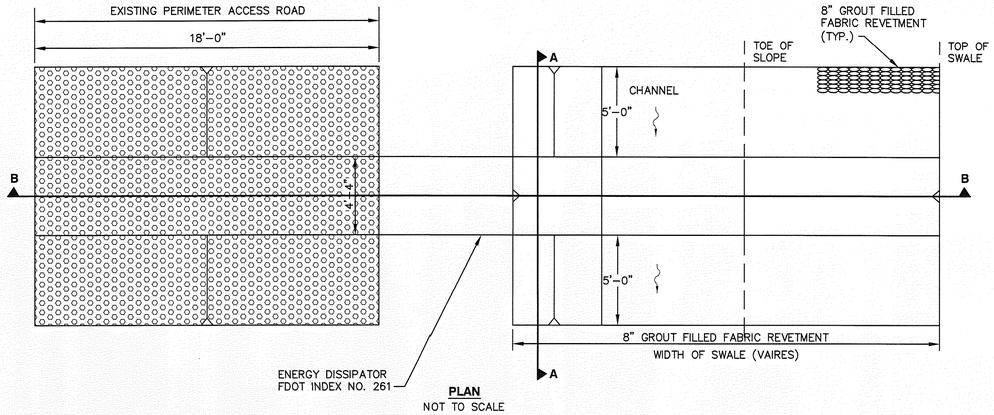


SECTION

TYPICAL FLOW LINE OF STORMWATER TERRACE SWALE DETAIL

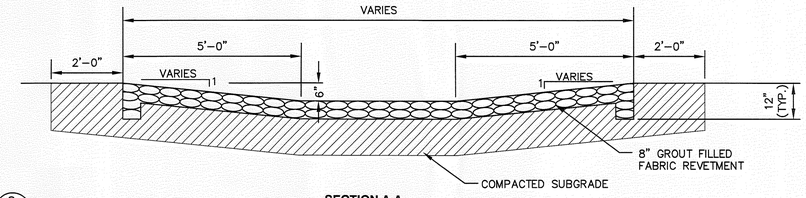
3 – 23

NOT TO SCALE



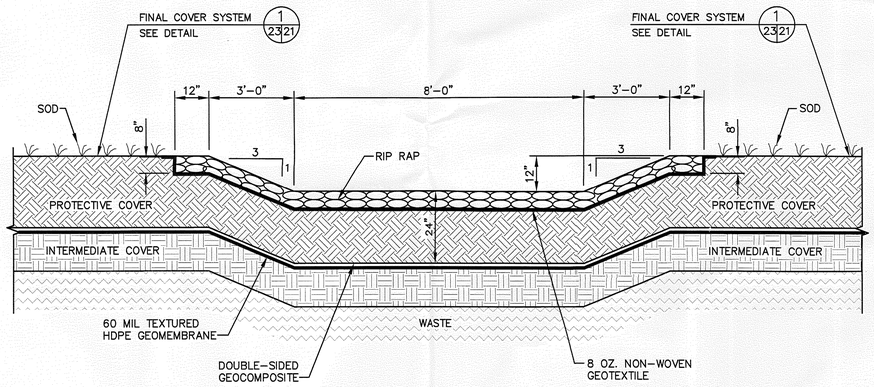
PLAN

NOT TO SCALE



SECTION A-A

NOT TO SCALE

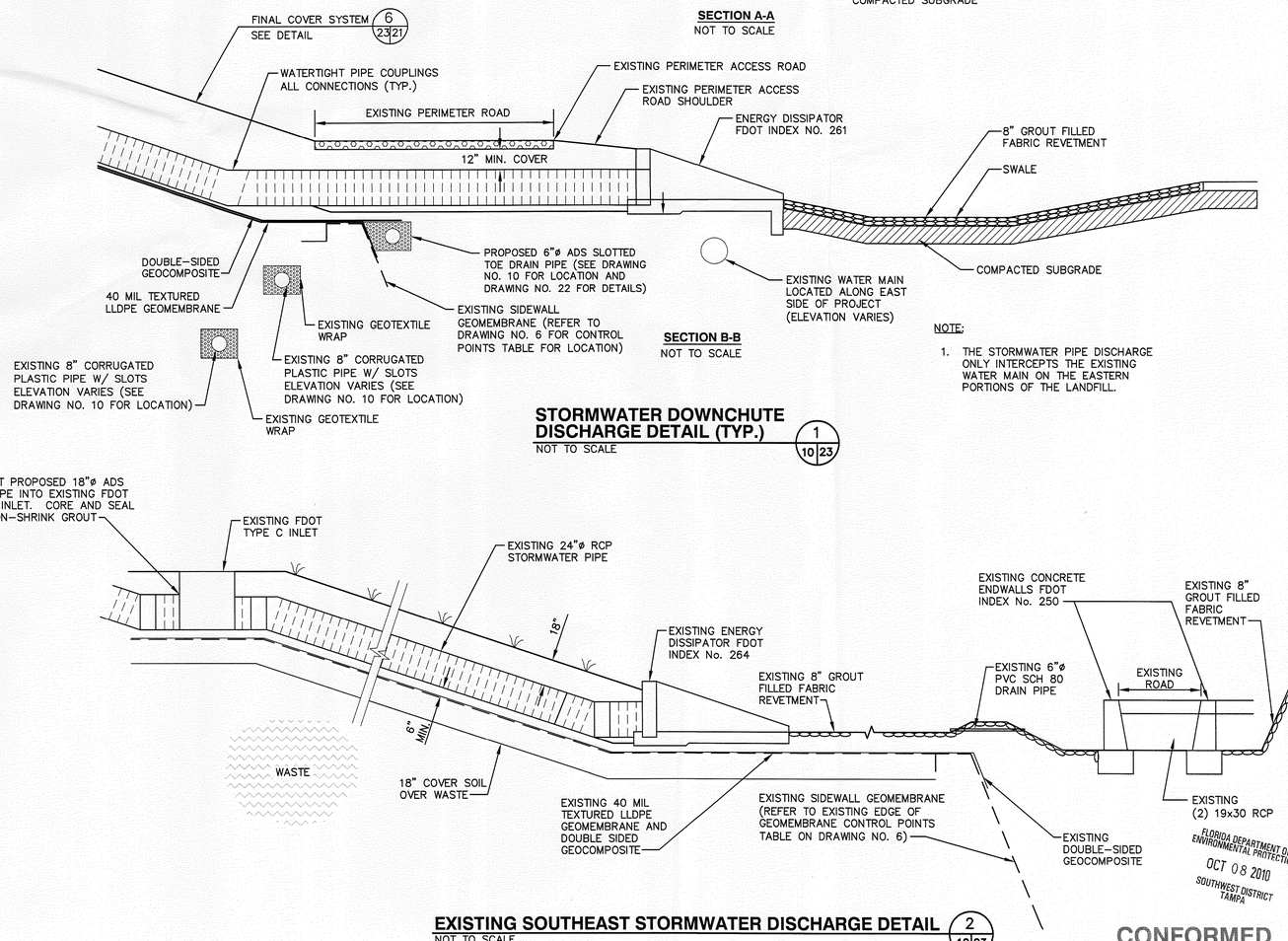


TEMPORARY WESTERN STORMWATER FLUME DETAIL

4

7,8,10,12 / 23

SCALE: 1" = 2'–0"



SECTION B-B

NOT TO SCALE

NOTE:

1. THE STORMWATER PIPE DISCHARGE ONLY INTERCEPTS THE EXISTING WATER MAIN ON THE EASTERN PORTIONS OF THE LANDFILL.

STORMWATER DOWNCHUTE DISCHARGE DETAIL (TYP.)

1

10 / 23

NOT TO SCALE

EXISTING SOUTHEAST STORMWATER DISCHARGE DETAIL

2

10 / 23

NOT TO SCALE

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT
TAMPA

CONFORMED

DATE: 10/06/2010

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

SHAWN R. FISCHER, P.E.
STATE OF FLORIDA
LICENSE NO. 59026

DRAWING TITLE: **DETAILS - 6**

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 MACDILL AVE, SUITE 150, TAMPA, FL 33610
813-874-0555 FAX 813-874-0565
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

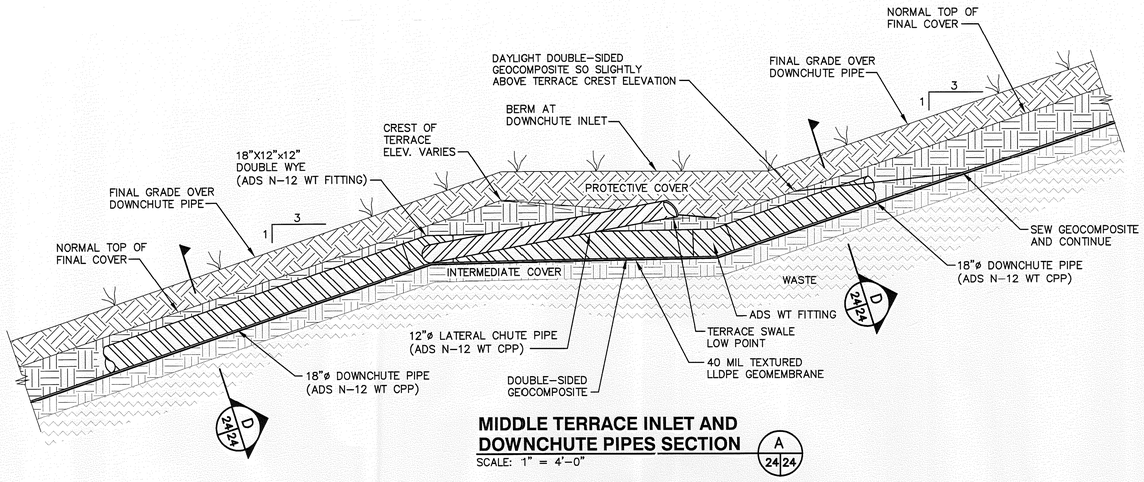
PROJ. NO. 09199033.21 | DWN. BY: CTN/SDA | D/A R/W BY: CEH
DSN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993321DETAILS2

DATE: JUNE 2010

SCALE: AS SHOWN

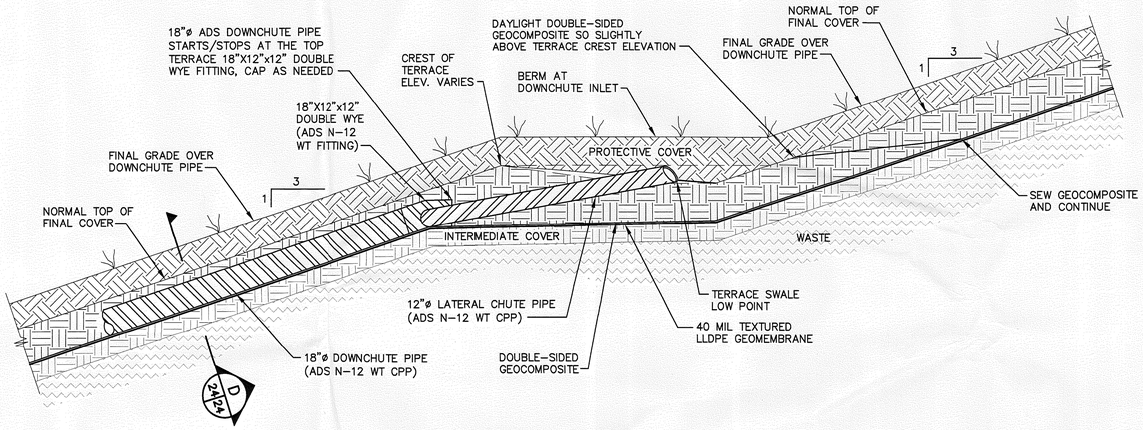
DRAWING NO. **23** of **24**



MIDDLE TERRACE INLET AND DOWNCHUTE PIPES SECTION

SCALE: 1" = 4'-0"

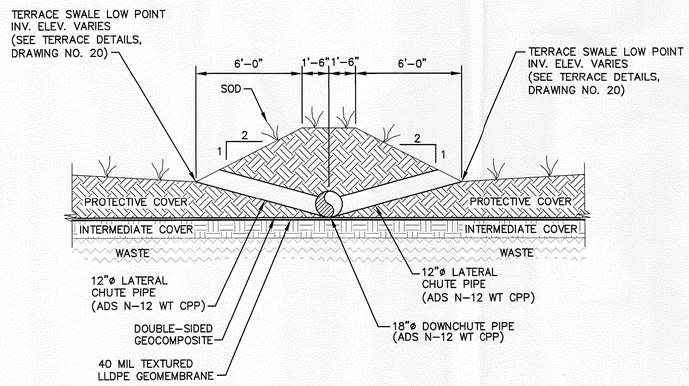
A 24|24



TOP TERRACE INLET AND DOWNCHUTE PIPES SECTION

SCALE: 1" = 4'-0"

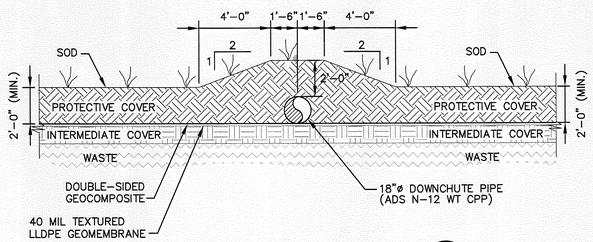
B 24|24



DOWNCHUTE INLET AND DOWNCHUTE PIPE SECTION

SCALE: 1" = 4'-0"

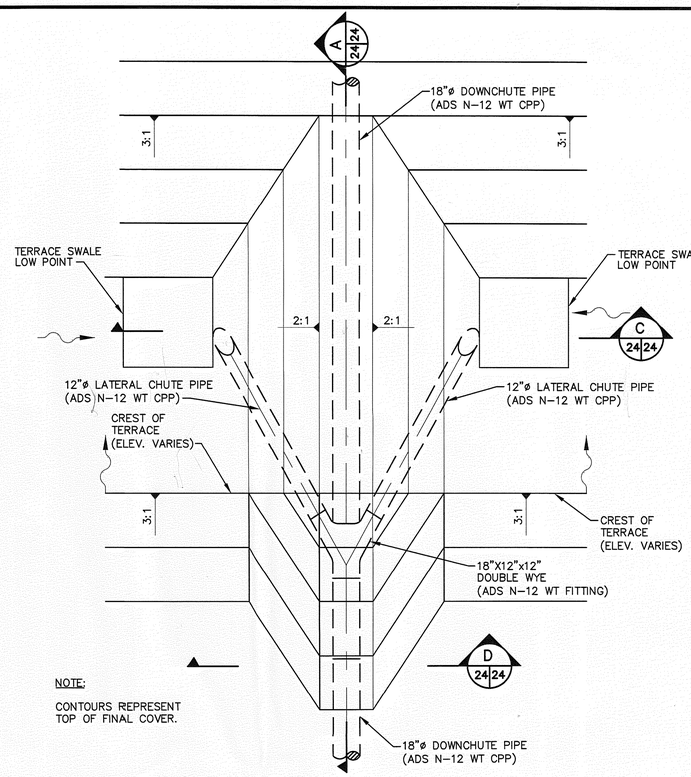
C 24 / 23,24



DOWNCHUTE PIPE SECTION

SCALE: 1" = 4'-0"

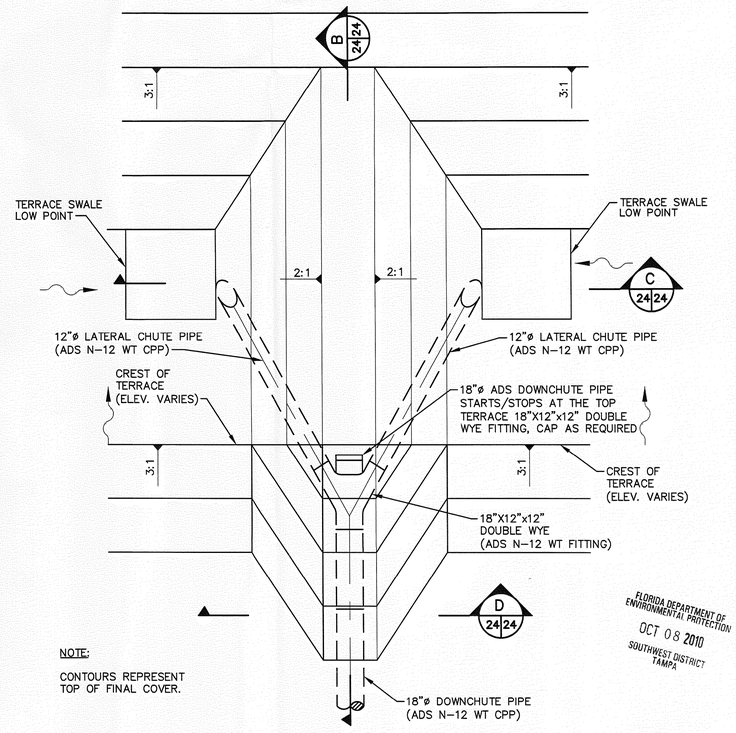
D 24|24



MIDDLE TERRACE INLET AND DOWNCHUTE PIPES DETAIL

SCALE: 1" = 4'-0"

1 10|24



TOP TERRACE INLET AND DOWNCHUTE PIPES DETAIL

SCALE: 1" = 4'-0"

2 10|24

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 08 2010
SOUTHWEST DISTRICT TAMPA

CONFORMED
DATE: 10/06/2010

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	08/09/10	ISSUED FOR BID	SRF
2	10/06/10	CONFORMED DRAWING	SRF

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
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0690 FAX 813 623-0457
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJECT NO. 09199033.21 | DWN: CEH | QA/A REV. BY: | APP. BY: SRF
CADD FILE: 993321DETAILS2 | CHK. BY: CTN/JDA | QA/A REV. BY: SRF
DATE: JUNE 2010 | DSN. BY: SRF
SCALE: AS SHOWN
DRAWING NO. 24 of 24

© 2010 SCS ENGINEERS