

CONSTRUCTION PLANS FOR SEDIMENTATION POND

OUC STANTON ENERGY CENTER ORANGE COUNTY, FLORIDA



AUGUST 2014

Prepared By



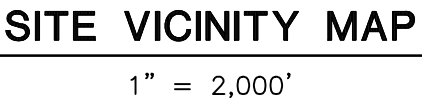
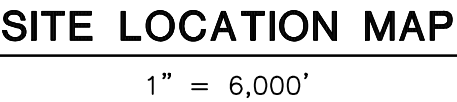
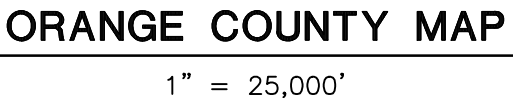
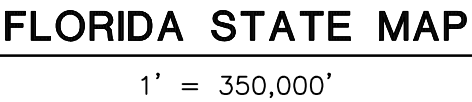
Ardaman & Associates, Inc.

Geotechnical, Environmental, and
Materials Consultants

A Tetra Tech Company

8008 S. Orange Ave. Orlando, FL 32809

TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950



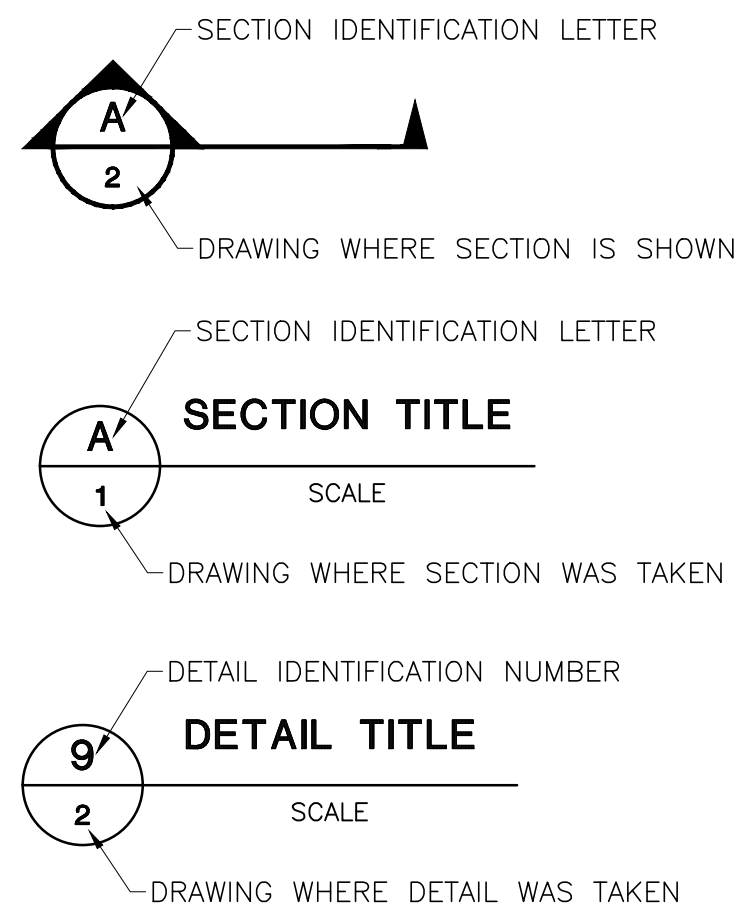
SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
	GENERAL DRAWINGS		CONSTRUCTION DRAWINGS
G-1	COVER SHEET	CS-1	LINER SYSTEM GRADING PLAN
G-2	INDEX OF DRAWINGS AND LOCATION MAPS	CS-2	GAS VENT LAYOUT
G-3	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS	CS-3	COMPACTED CLAY SUB-BASE GRADING PLAN
G-4	AERIAL PHOTOGRAPH OF STANTON ENERGY CENTER	CS-4	HDPE LINER PLAN
G-5	TOPOGRAPHIC MAP OF SITE	CS-5	GEOCOMPOSITE PLAN
G-6	AERIAL PHOTOGRAPH OF PROPOSED SEDIMENTATION POND	CS-6	SOIL COVER GRADING PLAN
G-7	SITE PLAN ON EXISTING TOPOGRAPHIC MAP	CS-7	FINAL GRADING PLAN
G-8	EROSION CONTROL PLAN	CS-8	LINER SYSTEM GRADING CROSS SECTIONS C THROUGH F
G-9	FINAL GRADING PLAN	CS-9	CLAY SUB-BASE GRADING CROSS SECTIONS G THROUGH J AND DETAIL
	SEEPAGE COLLECTION DRAIN DRAWINGS	CS-10	HDPE LINER SYSTEM CROSS SECTIONS K THROUGH N AND DETAILS
SD-1	SEEPAGE COLLECTION DRAIN GRADING PLAN	CS-11	SOIL COVER GRADING CROSS SECTIONS O THROUGH R AND DETAILS
SD-2	SEEPAGE COLLECTION DRAIN LAYOUT	CS-12	FINAL GRADING CROSS SECTIONS S THROUGH V AND DETAILS
SD-3	SEEPAGE COLLECTION DRAIN CROSS SECTIONS A AND B		DETAIL DRAWINGS
SD-4	SEEPAGE COLLECTION DRAIN CLEANOUT PLAN	D-1	GAS VENT DETAILS
SD-5	SEEPAGE COLLECTION DRAIN DETAILS	D-2	LINER DETAILS
		D-3	MISCELLANEOUS DETAILS

[illegible]

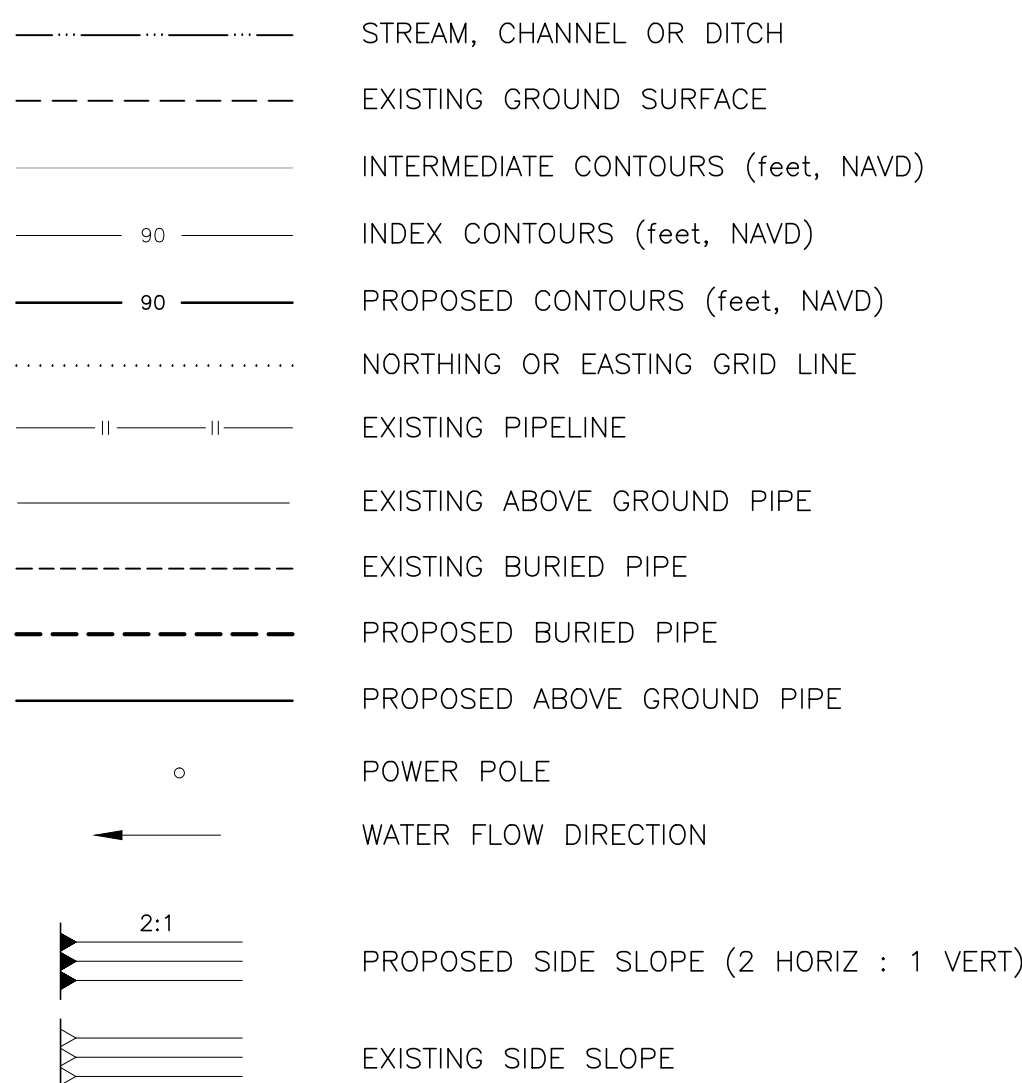
ABBREVIATIONS

A	ANCHOR	H	HIGH
AB	ANCHOR BOLT	HDP	HIGH DENSITY POLYETHYLENE
ACI	AMERICAN CONCRETE INSTITUTE	HORIZ	HORIZONTAL
ADAPT	ADAPTER	HP	HIGH POINT
AR'D	AROUND	HW	HEADWALL
ASTM	ASTM INTERNATIONAL	HWY	HIGHWAY
B		I	
BOTT	BOTTOM	ID	INSIDE DIAMETER
BF.V.	BUTTERFLY VALVE	INV	INVERT
B.F.	BLIND FLANGE	L	
B.V.	BALL VALVE	L	LENGTH OF ARC
C		LBS	POUNDS
C	CENTERLINE	LDS	LEAK DETECTION SYSTEM
CLR	CLEAR	LF	LINEAR FOOT
CONC	CONCRETE	LG	LENGTH OR LONG
CONN	CONNECTION	LLV	LONG LEG VERTICAL
CONT	CONTINUATION OR CONTINUOUS	LR	LONG RADIUS
COR	CORNER	LT	LEFT
CORR	CORRUGATED	M	
CPT	CORRUGATED PLASTIC TUBING	MAT'L	MATERIAL
CR	COUNTY ROAD	MAX	MAXIMUM
D		MB	MECHANICAL BOLT
DIA	DIAMETER	MEG	MEET EXISTING GRADE
DIP	DUCTILE IRON PIPE	MIN	MINIMUM
DISCH	DISCHARGE	N	
DR	DIMENSION RATIO	N	NORTH
DWG	DRAWING	NAVD	North American Vertical Datum of 1988
△	CURVE ANGLE	NO.	NUMBER
E		NTS	NOT TO SCALE
E	EAST	NWI	NATIONAL WETLANDS INVENTORY
EA	EACH	O	
ECC	ECCENTRIC	OC	ON CENTERS
EL	ELEVATION (feet, NAVD)	O/E	OR EQUAL
ELL	ELBOW	OZ	OUNCE
EW	EACH WAY	P	
EXIST	EXISTING	PC	POINT OF CURVATURE
EXP	EXPANSION	PE	PLAIN END
EXT	EXTENSION	PERF	PERFORATED
F		PI	POINT OF INTERSECTION
FAB	FABRICATED	PL	PLATE
FG	FINISH GRADE	PM	PLANT MANHOLE
FIN	FINISH	PP	POWER POLE
FLG	FLANGE	PPL	POLYPROPYLENE
FLG'D	FLANGED	PRC	POINT OF REVERSE CURVATURE
FRP	FIBERGLASS REINFORCED PIPE	PROJ	PROJECTION
FT	FOOT	PSI	POUNDS PER SQUARE INCH
G		PT	POINT OF TANGENCY
GALV	GALVANIZED	P.V.	PLUG VALVE
GR	GRADE	PVC	POLYVINYL CHLORIDE

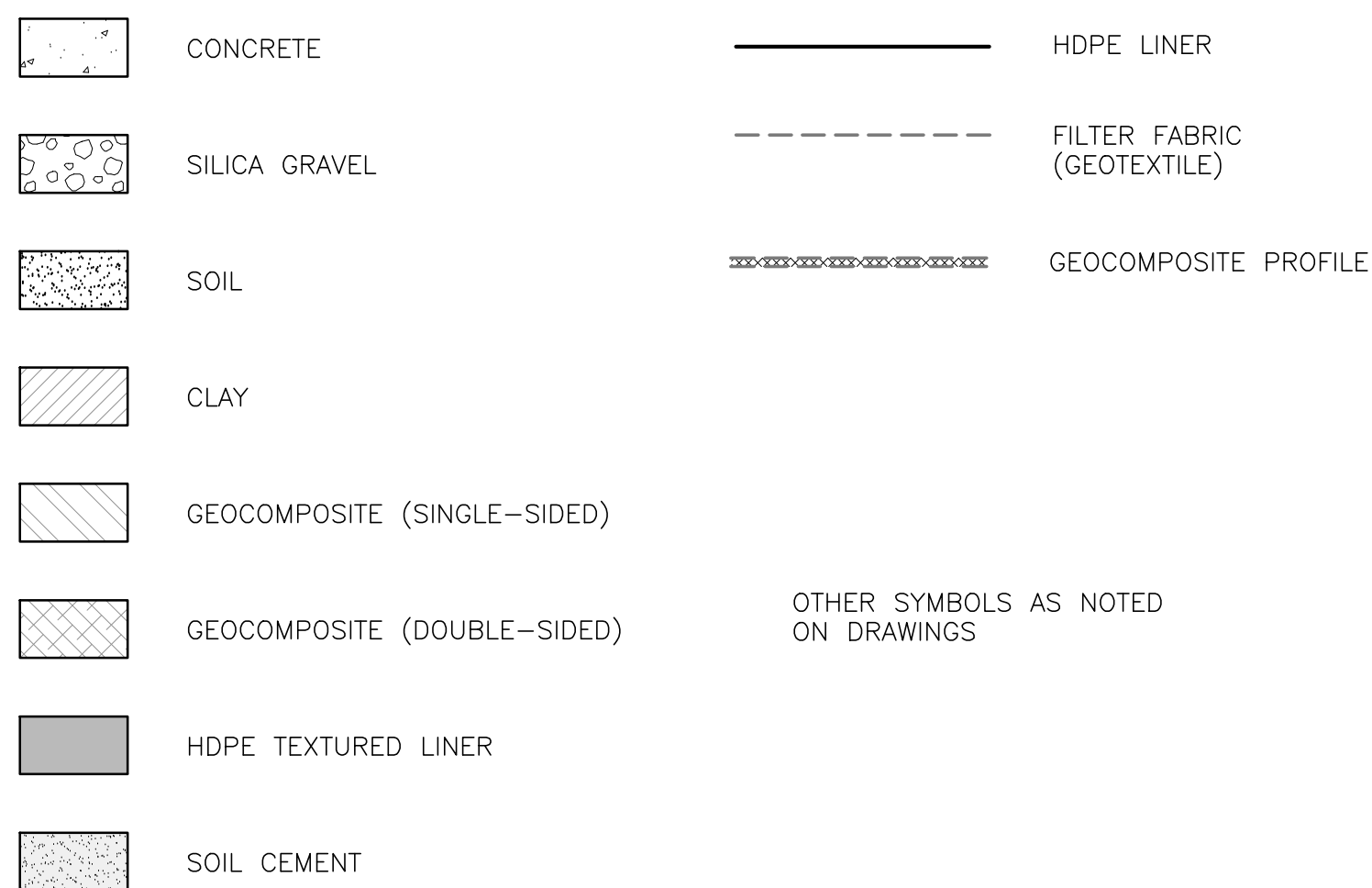
DRAWING SYMBOLS



LEGEND



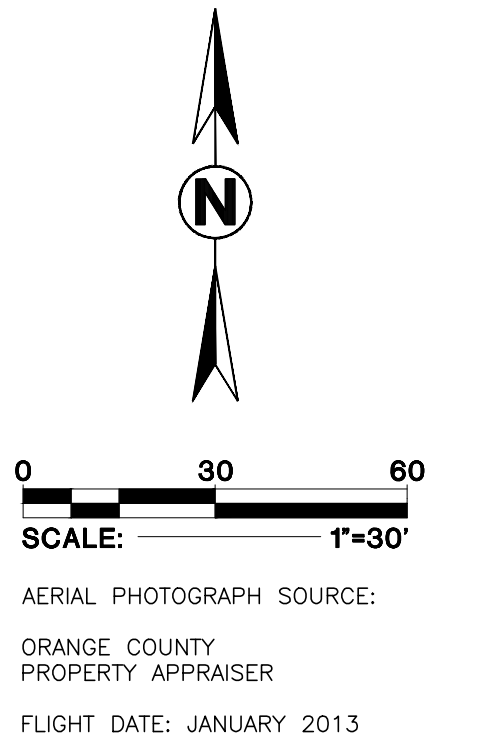
MATERIAL SYMBOLS

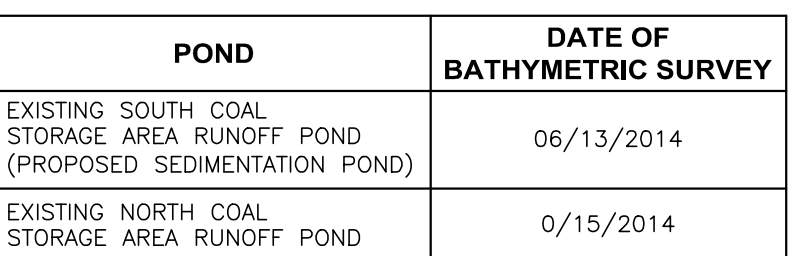


GENERAL NOTES

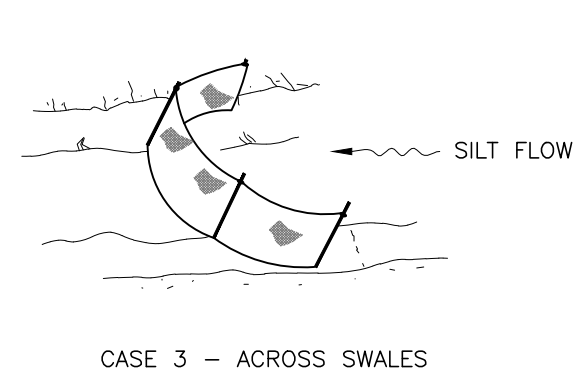
- | | | | |
|-----|--|-----|---|
| 1. | ALL CONSTRUCTION TRAFFIC INTO AND OUT OF THE PROJECT SITE SHALL BE THROUGH ACCESS ROAD(S) DESIGNATED BY THE OWNER. ALL CONSTRUCTION TRAFFIC WITHIN THE PROJECT SITE SHALL BE WITHIN CORRIDORS DESIGNATED BY THE OWNER. | 17. | WATER LEVELS SHOWN ON THE DRAWINGS EXISTED ON THE INDICATED DATES. WATER LEVELS ARE EXPECTED TO VARY WITH RAINFALL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING THAT IS NECESSARY FOR PROPER CONSTRUCTION OF ANY UTILITIES, DRAINAGE STRUCTURES, EXCAVATIONS, OR OTHER FACILITIES SHOWN ON THE DRAWINGS. PRIOR TO ANY DEWATERING ACTIVITIES, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND OBTAIN ALL REQUIRED PERMITS. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION AREA DEWATERED AND WELL-DRAINED. |
| 2. | ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY THE CITY OF ORLANDO/ORANGE COUNTY, THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), AND THE CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS. WHERE CONFLICTS OR OMISSIONS EXIST, THE STANDARDS SHALL DICTATE. | 18. | THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE THE LIMITS OF CONSTRUCTION SHOWN ON THE DRAWINGS. |
| 3. | SUBSTITUTIONS AND DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WITH WRITTEN APPROVAL BY THE OWNER/ENGINEER. | 19. | THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS SHALL BE STRICTLY OBSERVED BY THE CONTRACTOR. ALL INGRESS, EGRESS AND TRAFFIC PATTERNS ON THE SITE SHALL BE WITHIN AREAS AND CORRIDORS DESIGNATED BY THE OWNER. |
| 4. | SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. | 20. | THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FIVE (5) SETS OF RECORD DRAWINGS TO THE OWNER IN ELECTRONIC FORMAT WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED. |
| 5. | IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED COUNTY AND CITY PERMITS ARE IN HAND BEFORE CONSTRUCTION BEGINS. | 21. | THE CONTRACTOR IS RESPONSIBLE FOR OBSERVING EXISTING SITE CONDITIONS AND CONSIDERING THEM IN THE BID PRICES. |
| 6. | THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES WHICH MAY HAVE UTILITIES LOCATED WITHIN THE DESIGNATED CONSTRUCTION AREAS AT LEAST 72 HOURS BEFORE CONSTRUCTION BEGINS. | 22. | DESIGN ELEVATIONS AND GRADES AND EXISTING ELEVATIONS ON ALL DRAWINGS ARE BASED ON INFORMATION FROM A 1-FOOT CONTOUR MAP OF THE SITE TAKEN 06/13/14. |
| 7. | THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER AND THE ENGINEER ASSUME NO RESPONSIBILITY FOR INACCURACY. PRIOR TO COMMENCEMENT OF CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY COMPANIES AND, IF NECESSARY, TO MAKE ARRANGEMENTS WITH THE OWNERS OF THE UTILITIES FOR RELOCATION OF THESE UTILITIES. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING ANY UNDERGROUND UTILITIES, WHETHER SHOWN ON THE DRAWINGS OR LOCATED BY THE UTILITY COMPANIES. ALL UTILITIES THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES, AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING THE RELOCATION OPERATION. ANY DELAY OR INCONVENIENCE TO THE CONTRACTOR AS A RESULT OF THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE CONDITION OF ALL EXISTING UTILITIES PROPOSED TO BE USED FOR TIE-IN OR CONNECTION BEFORE CONSTRUCTION BEGINS. ANY COST ASSOCIATED WITH UNSUITABLE UTILITIES AND/OR STORM DRAINAGE DISCOVERED AFTER CONSTRUCTION BEGINS SHALL BE BORNE BY THE CONTRACTOR. | 23. | PROJECT GRADING AND CONSTRUCTION SHALL BE COMPLETED RELATIVE TO BENCHMARKS ESTABLISHED WITHIN THE PROJECT SITE. |
| 8. | THE CONTRACTOR SHALL CONSTRUCT HORIZONTAL AND VERTICAL CURVED ALIGNMENTS OF PIPELINES AND PIPING BY DEFLECTION OF PIPE JOINTS USING 75 PERCENT OF THE MAXIMUM DEFLECTION RECOMMENDED BY THE PIPE MANUFACTURER. | 24. | THE CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OWNER. |
| 9. | CONSTRUCTION QUALITY ASSURANCE WILL BE PROVIDED BY THE ENGINEER AND/OR THE ENGINEER'S REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND AT LEAST 48 HOURS BEFORE REQUIRING INSPECTION ON EACH AND EVERY PHASE OF WORK. THE CONTRACTOR SHALL GIVE THE ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. NO FINAL TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE. | | |
| 10. | WHERE NEW INLET AND OUTLET PIPES AND ASSOCIATED STRUCTURES ARE TO BE CONSTRUCTED, THE LENGTH OF PIPE SHOWN ON THE DRAWINGS INCLUDES END SECTIONS. THE PIPE LENGTHS MAY BE ADJUSTED, AS REQUIRED, IN THE FIELD UPON APPROVAL BY THE ENGINEER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR MINOR FIELD ADJUSTMENTS. | | |
| 11. | REMOVAL AND DUMPING OF DEBRIS GENERATED BY CLEARING AND GRUBBING OPERATIONS SHALL BE THE CONTRACTORS RESPONSIBILITY AND SHALL BE COORDINATED BY THE CONTRACTOR WITH THE OWNER. | | |
| 12. | CLEARED AREAS SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE GROUND SURFACE. | | |
| 13. | DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE STATE WATER QUALITY STANDARDS AS SPECIFIED IN THE PERMITS. ALL WATER AND WIND EROSIONS SHALL BE MINIMIZED AS DEFINED IN THE SPECIFICATIONS AND PERMITS. THE SPECIFICATIONS PROVIDE ONLY THE MINIMUM REQUIREMENTS FOR EROSION AND SEDIMENTATION CONTROLS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES, IF REQUESTED BY THE OWNER. ALL COSTS ASSOCIATED WITH TURBIDITY AND SEDIMENTATION CONTROLS SHALL BE BORNE BY THE CONTRACTOR. | | |
| 14. | EROSION CONTROL AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION. THEY SHALL BE INSTALLED TO THE LIMITS SHOWN ON THE DRAWINGS OR AS STATED IN THE SPECIFICATIONS AND IN ACCORDANCE WITH ALL REGULATORY AGENCY REQUIREMENTS. THE CONTRACTOR, AT THEIR OWN EXPENSE, SHALL OPERATE AND MAINTAIN EROSION AND SEDIMENTATION CONTROL DEVICES AND STRUCTURES AND COMPLY WITH ALL APPLICABLE PERMIT REQUIREMENTS. | | |
| 15. | THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK ACTIVITIES. TURBIDITY BARRIERS SHALL BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION HAS BEEN COMPLETED AND DISTURBED AREAS HAVE BEEN STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFFSITE DISCHARGE THAT VIOLATES THE WATER QUALITY STANDARDS IN CHAPTERS 62-302 AND 62-3, FLORIDA ADMINISTRATIVE CODE. | | |
| 16. | THE FINISHED GRADE ON THE DRAWINGS REFERS TO THE GRADE PRIOR TO SODDING, OR OTHER SURFACE TREATMENT. | | |

														<table><tr><td>NAME</td><td>DATE</td><td>NAME</td><td>DATE</td></tr><tr><td>DESIGNED BY JM</td><td>08/08/14</td><td>CHECKED BY DJC</td><td>08/20/14</td></tr><tr><td>DRAWN BY PS</td><td>08/08/14</td><td>CHECKED BY MH</td><td>08/25/14</td></tr></table>				NAME	DATE	NAME	DATE	DESIGNED BY JM	08/08/14	CHECKED BY DJC	08/20/14	DRAWN BY PS	08/08/14	CHECKED BY MH	08/25/14		Ardaman & Associates, Inc. Geotechnical, Environmental, and Materials Consultants A Tetra Tech Company 8008 S. Orange Ave., Orlando, FL 32809 TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950	 The Reliable One®	SEDIMENTATION POND		GENERAL NOTES, ABBREVIATIONS AND SYMBOLS	DRAWING NO.
NAME	DATE	NAME	DATE																																	
DESIGNED BY JM	08/08/14	CHECKED BY DJC	08/20/14																																	
DRAWN BY PS	08/08/14	CHECKED BY MH	08/25/14																																	
PO 08/25/14 ISSUED FOR REGULATORY REVIEW		OUC STANTON ENERGY CENTER ORANGE COUNTY, FLORIDA		G-3																																
FILE NO.: 13-13-0166 SCALE: AS SHOWN APPROVED BY:																																				
REVISION	DATE	DESCRIPTION		APPR'D	REVISION	DATE	DESCRIPTION		APPR'D																											

[illegible]



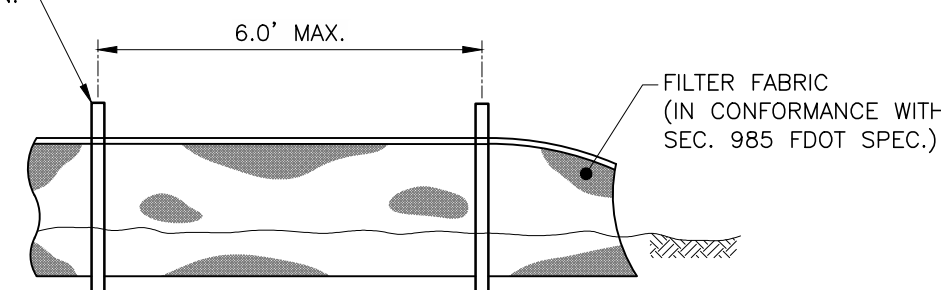
DRAWING NO.
G-7



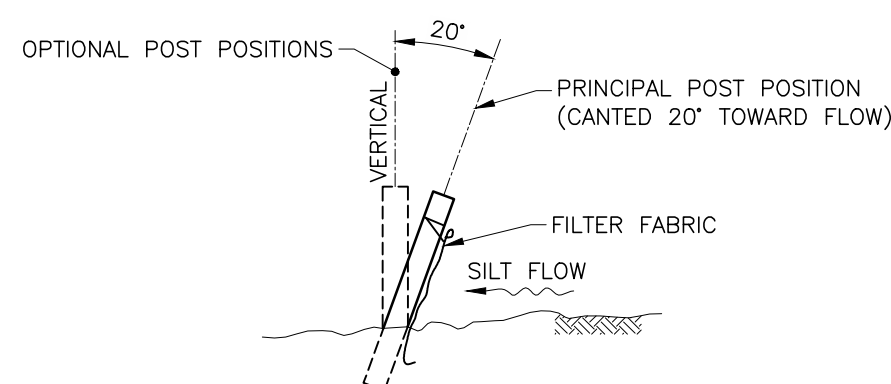
DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

1 TYPE III SILT FENCE APPLICATION
G-8 NOT TO SCALE

POST OPTIONS:
WOOD-2 1/2" MIN. DIA.
WOOD-2" x 4"
STEEL-1.33 Lbs./FT. MIN.



ELEVATION

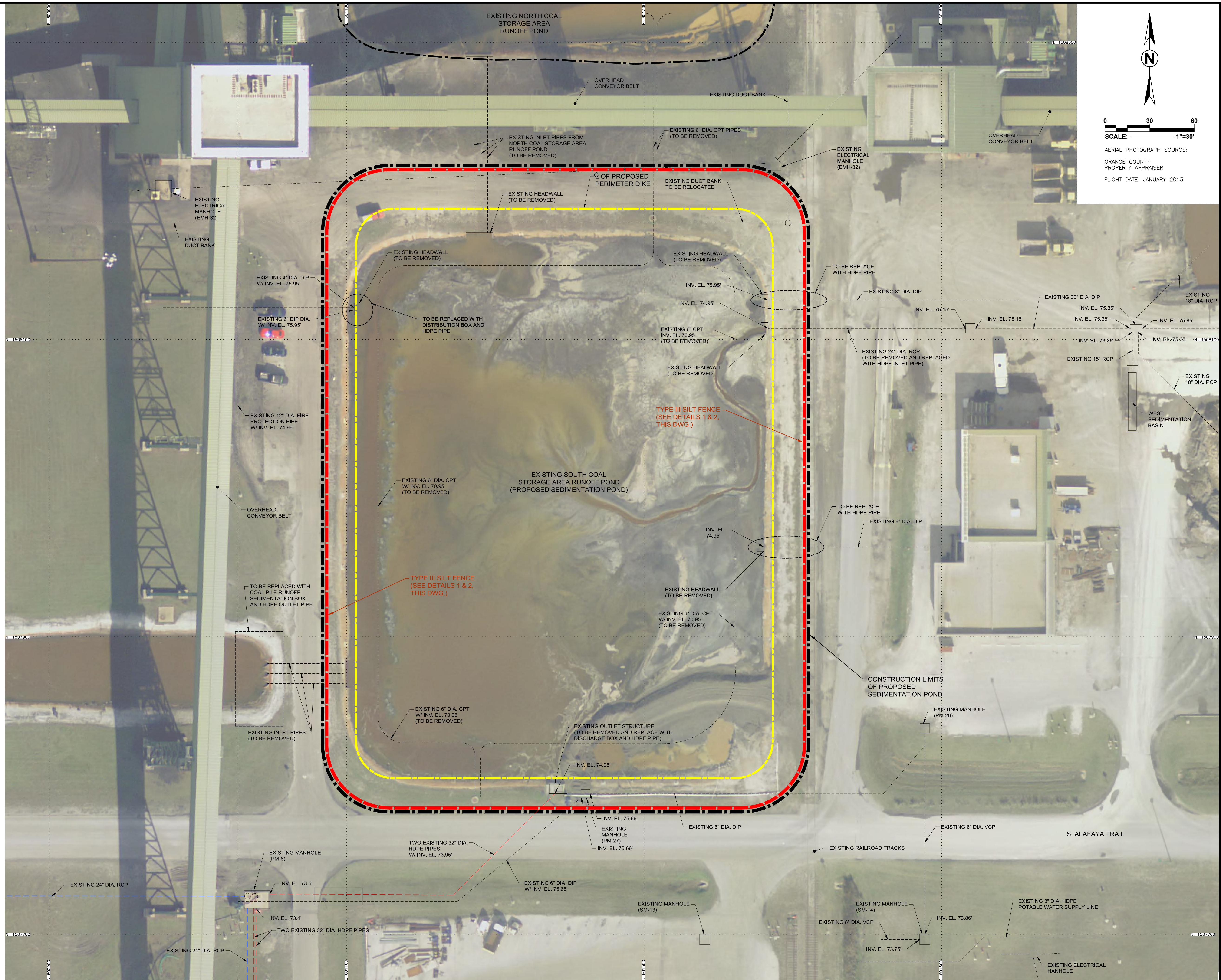


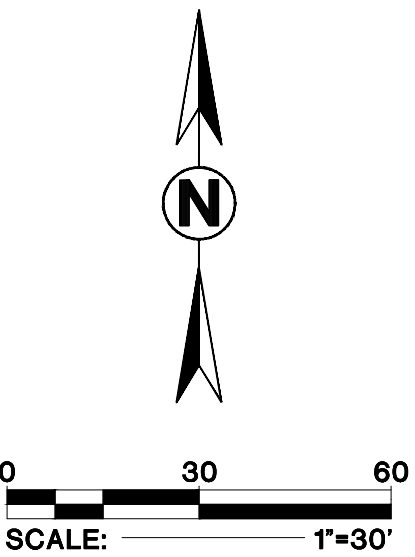
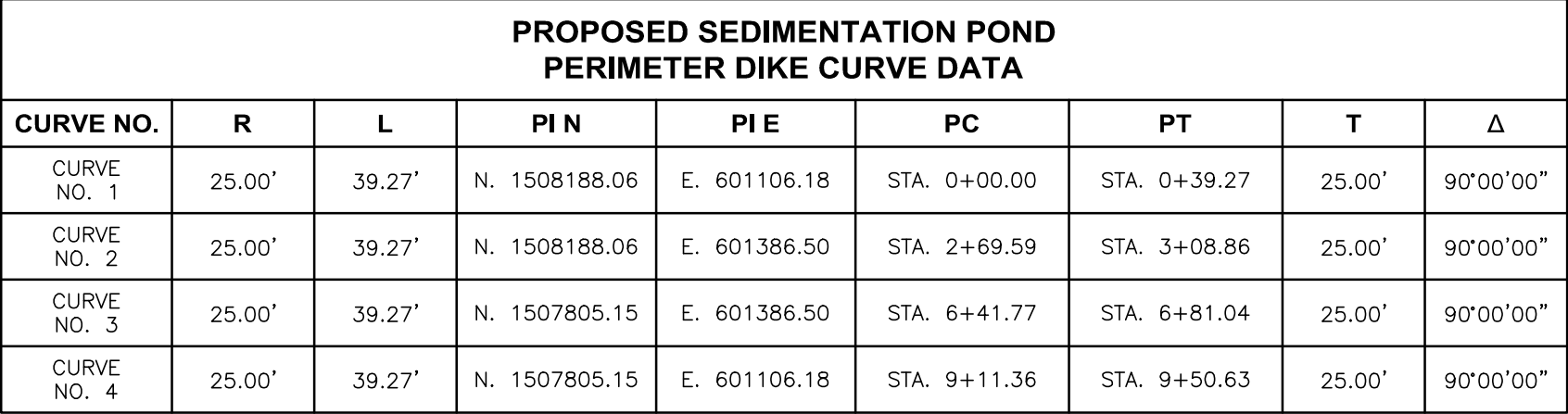
SECTION

2 TYPE III SILT FENCE
G-8 NOT TO SCALE

TYPE III SILT FENCE AND HAY BALE BARRIER INSTALLATION GUIDELINES:

1. SILT FENCES SHALL BE INSTALLED AROUND ALL STORMWATER INLETS, AS SHOWN IN DETAILS 1 AND 2 (CASE 2) ON THIS DRAWING.
2. STAKES USED FOR ANCHORING HAY BALES IN ALL HDPE-LINED AREAS SHALL PENETRATE NO MORE THAN 12 INCHES INTO THE SOIL COVER MATERIAL. THE TOTAL THICKNESS OF SOIL COVER ABOVE THE HDPE LINER IS 24 INCHES. THE CONTRACTOR SHALL EXERCISE EXTRA CARE DURING STAKE INSTALLATION TO PREVENT ANY DAMAGE TO THE LINER. ALL BALE AND ANCHOR STAKE INSTALLATIONS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE.

[illegible]



TOPOGRAPHIC SURVEY PERFORMED BY:
TKW CONSULTING ENGINEERS, INC.

SURVEY DATE: 06/13/14

DATUM: NAVD88

TOPOGRAPHIC CONTOUR INTERVAL: 1 FT.

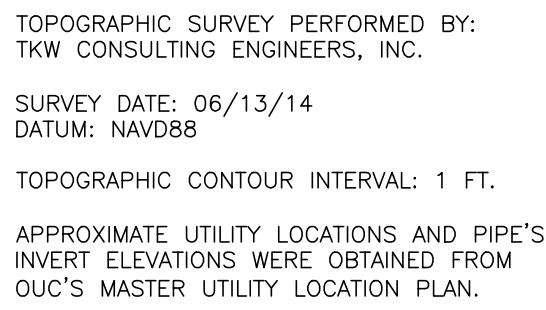
AERIAL PHOTOGRAPH SOURCE:

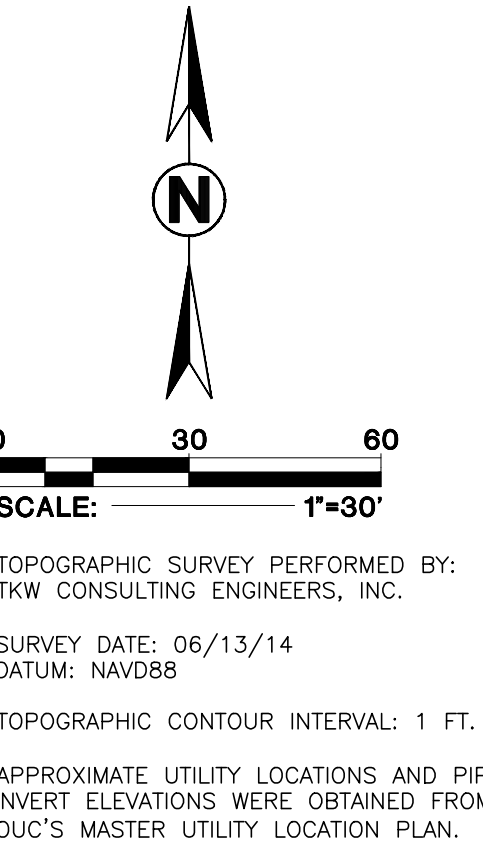
ORANGE COUNTY
PROPERTY APPRAISER

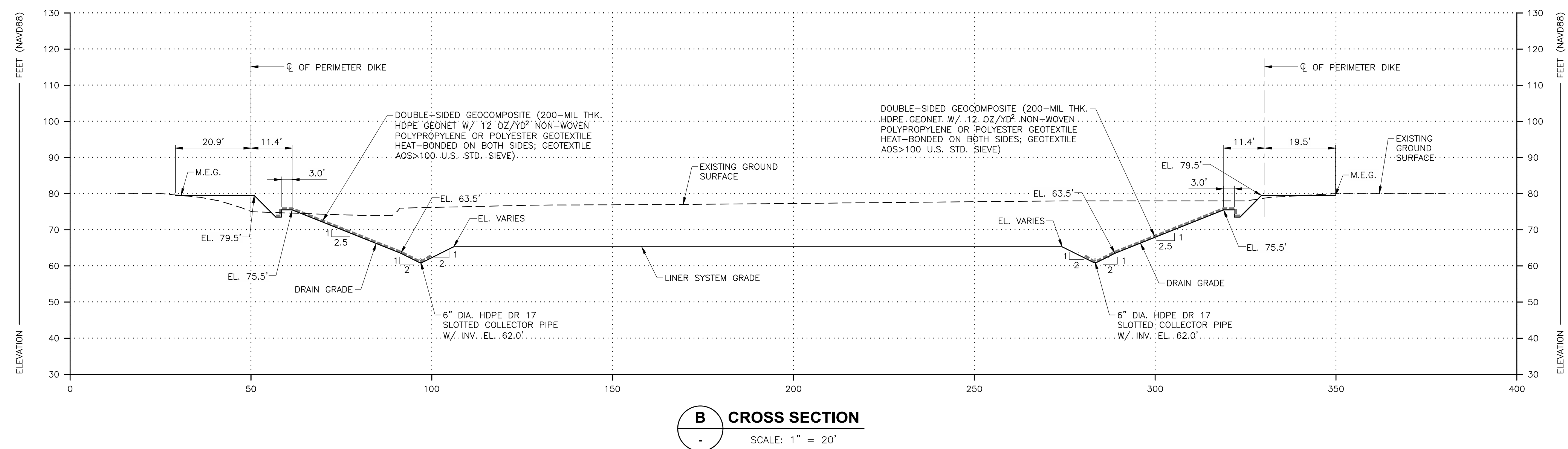
FLIGHT DATE: JANUARY 2013

[illegible]

T:\Corporate\13\13-13-0166\South Coal Storage Area Runoff Pond\Current Sheet Set\G-9 FINAL GRADING PLAN.dwg 8/25/2014 4:27:47 PM, Paula.Soto

[illegible]

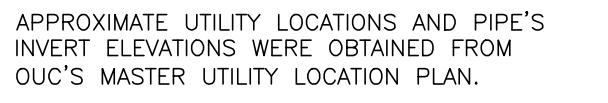


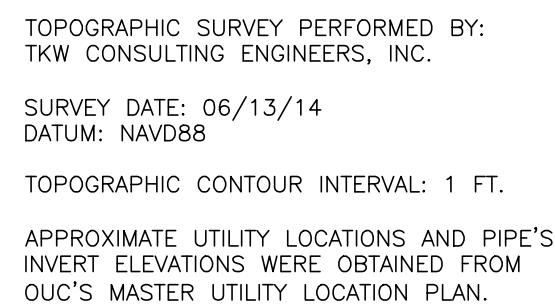
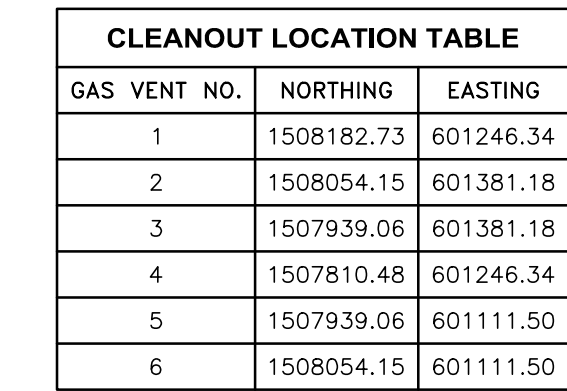
[illegible]



7 TYPICAL END OF GRAVEL DRAIN DETAIL

										<table><tr><td></td><td>NAME</td><td>DATE</td><td></td><td>NAME</td><td>DATE</td></tr><tr><td>DESIGNED BY</td><td>JM</td><td>08/08/14</td><td>CHECKED BY</td><td>DJC</td><td>08/20/14</td></tr><tr><td>DRAWN BY</td><td>PS</td><td>08/08/14</td><td>CHECKED BY</td><td>MH</td><td>08/25/14</td></tr></table>			NAME	DATE		NAME	DATE	DESIGNED BY	JM	08/08/14	CHECKED BY	DJC	08/20/14	DRAWN BY	PS	08/08/14	CHECKED BY	MH	08/25/14	 Ardaman & Associates, Inc. Geotechnical, Environmental, and Materials Consultants A Tetra Tech Company 8008 S. Orange Ave. Orlando, FL 32809 TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950		 OUC The Reliable One®		<table><tr><td colspan="2">SEDIMENTATION POND</td></tr><tr><td colspan="2">OUC STANTON ENERGY CENTER ORANGE COUNTY, FLORIDA</td></tr></table>		SEDIMENTATION POND		OUC STANTON ENERGY CENTER ORANGE COUNTY, FLORIDA		<table><tr><td colspan="2">DRAWING NO.</td></tr><tr><td colspan="2">SD-5</td></tr></table>		DRAWING NO.		SD-5	
	NAME	DATE		NAME	DATE																																								
DESIGNED BY	JM	08/08/14	CHECKED BY	DJC	08/20/14																																								
DRAWN BY	PS	08/08/14	CHECKED BY	MH	08/25/14																																								
SEDIMENTATION POND																																													
OUC STANTON ENERGY CENTER ORANGE COUNTY, FLORIDA																																													
DRAWING NO.																																													
SD-5																																													
										FILE NO.: 13-13-0166		SCALE: AS SHOWN																																	
										APPROVED BY:																																			

[illegible]

 GEOCOMPOSITE STRIPS

TYPICAL GAS VENT DETAILS ARE
SHOWN ON DRAWING NO. D-1.

OUC 
The *Reliable One*®

OUC STANTON ENERGY CENTER
ORANGE COUNTY, FLORIDA

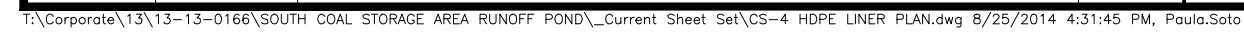
DRAWING NO

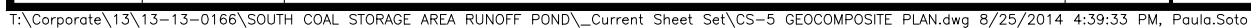
CS-2

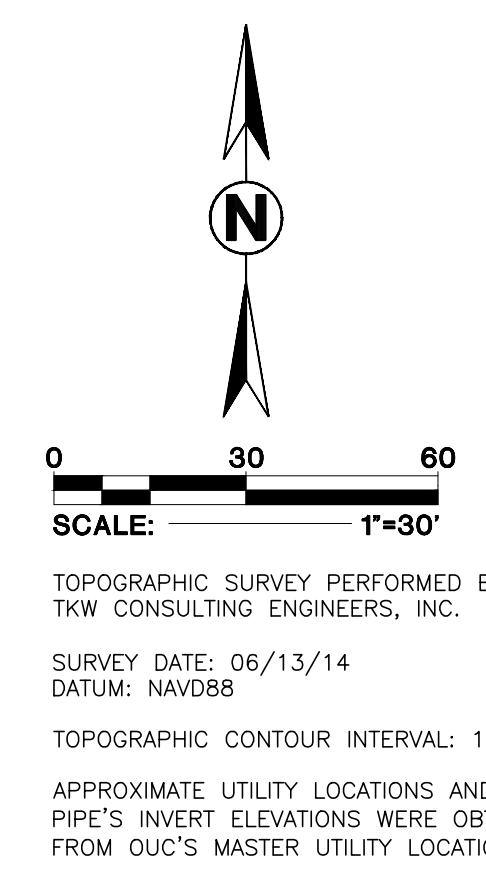


DRAWING NO.

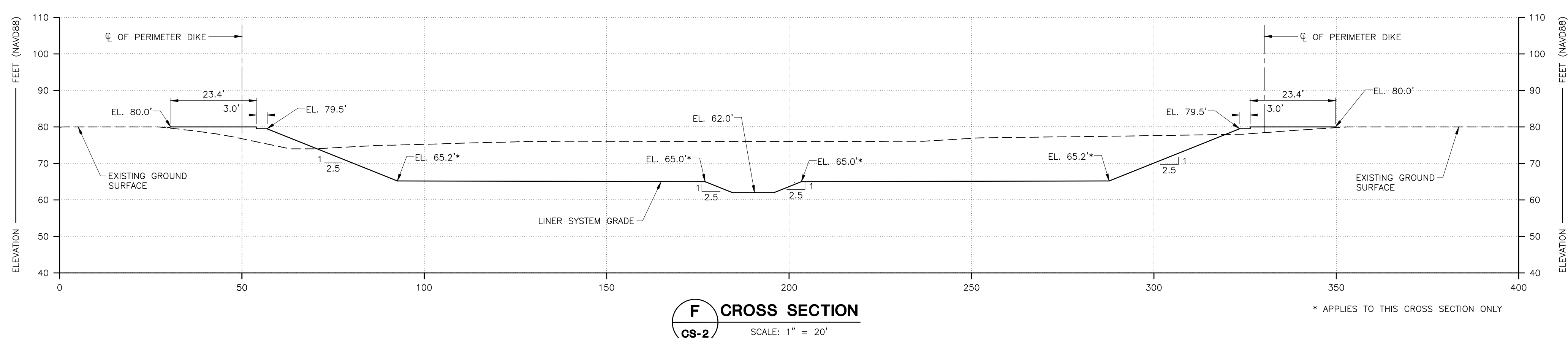
CS-3

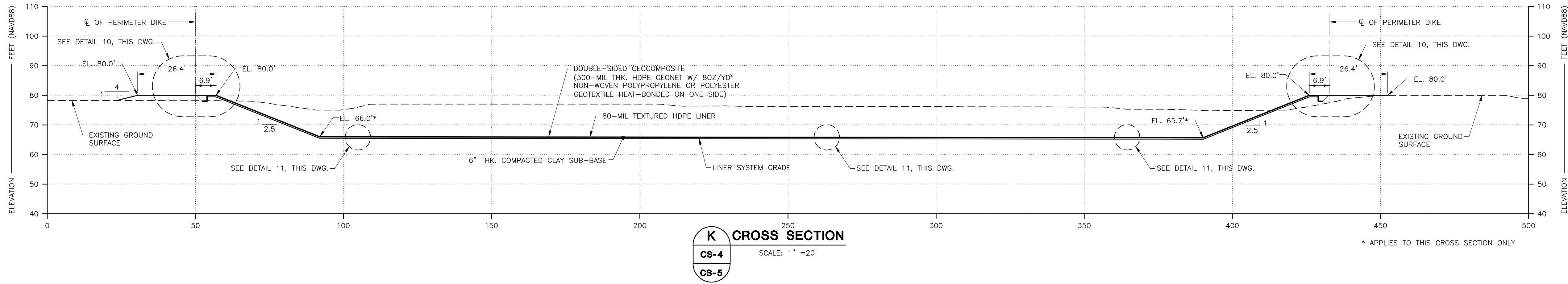




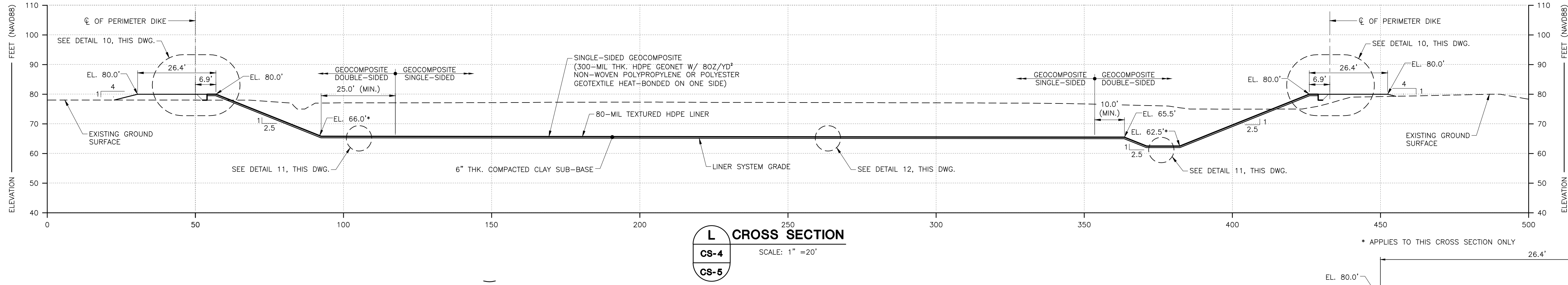
[illegible]

T:\Corporate\13\13-13-0166\South Coal Storage Area Runoff Pond\Current Sheet Set\CS-6 SOIL COVER GRADING PLAN.dwg 8/25/2014 4:32:33 PM, Paulo.Soto

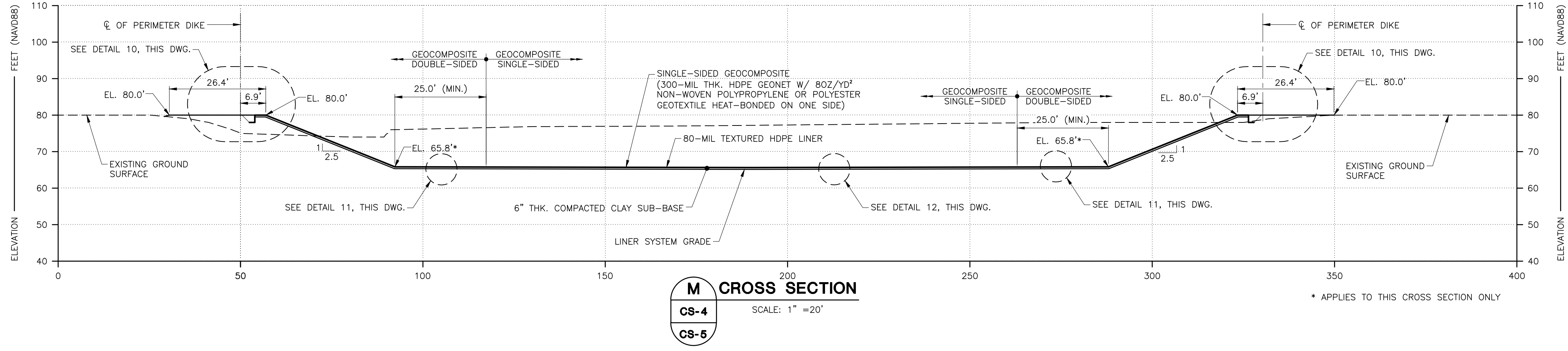
[illegible]



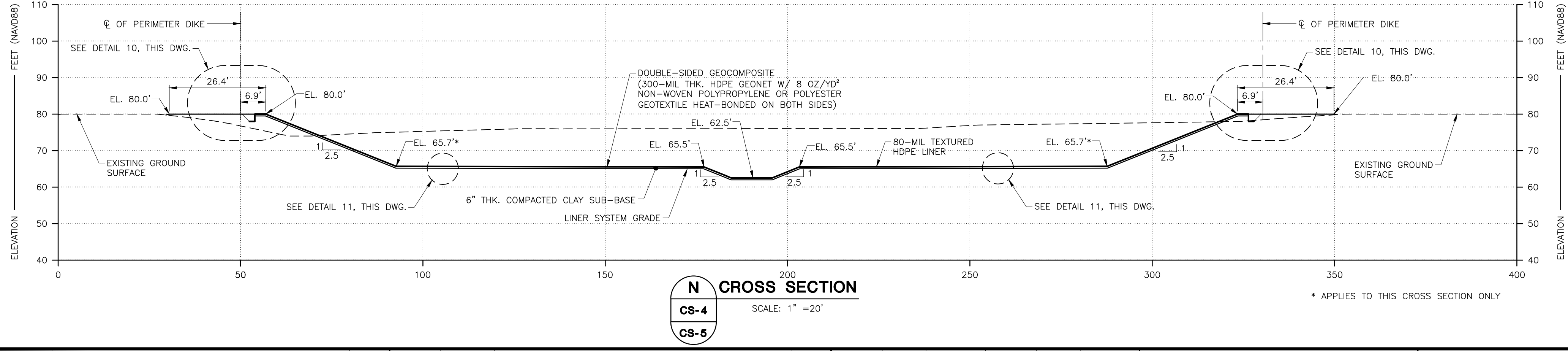
K CROSS SECTION
CS-4
CS-5
SCALE: 1" = 20'



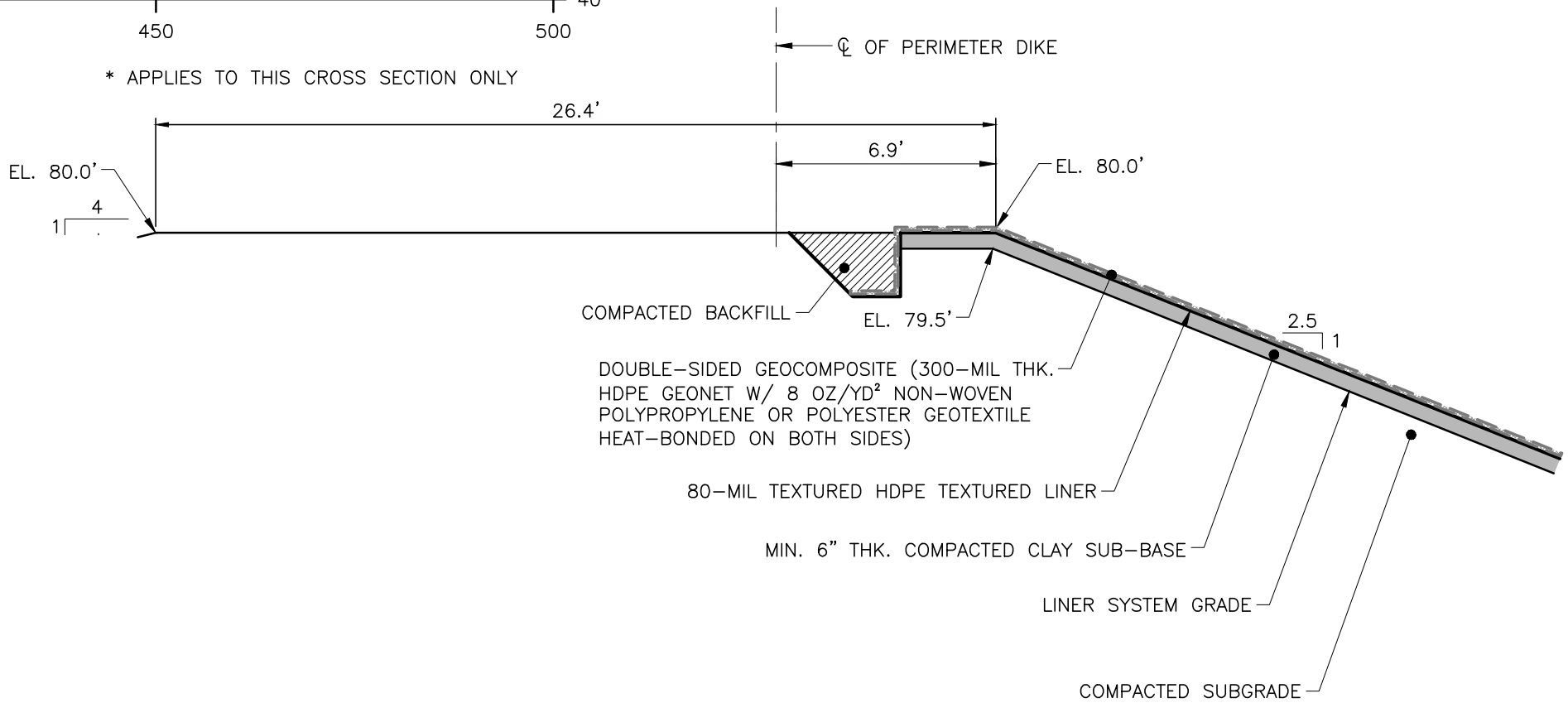
L CROSS SECTION
CS-4
CS-5
SCALE: 1" = 20'



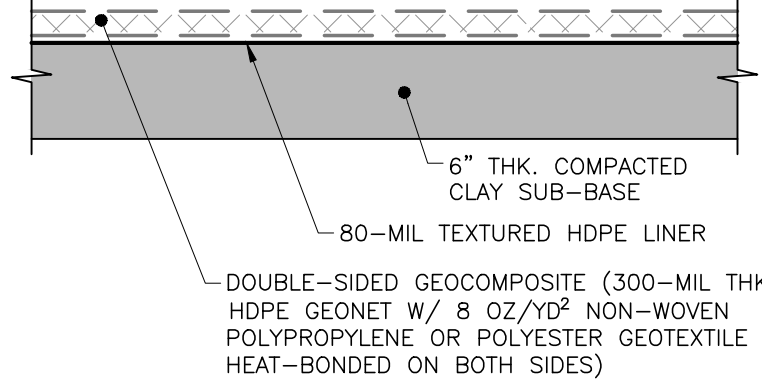
M CROSS SECTION
CS-4
CS-5
SCALE: 1" = 20'



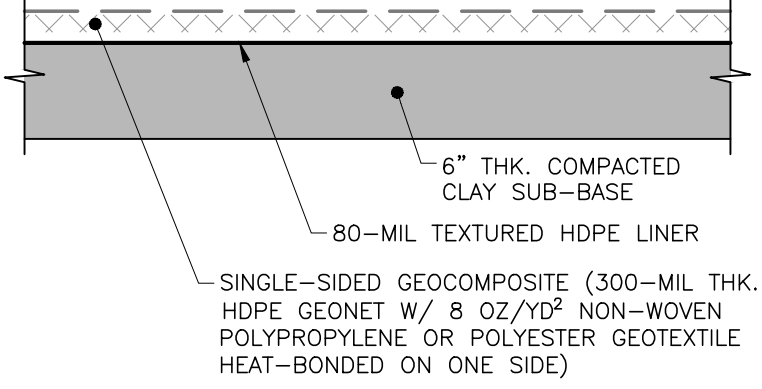
N CROSS SECTION
CS-4
CS-5
SCALE: 1" = 20'



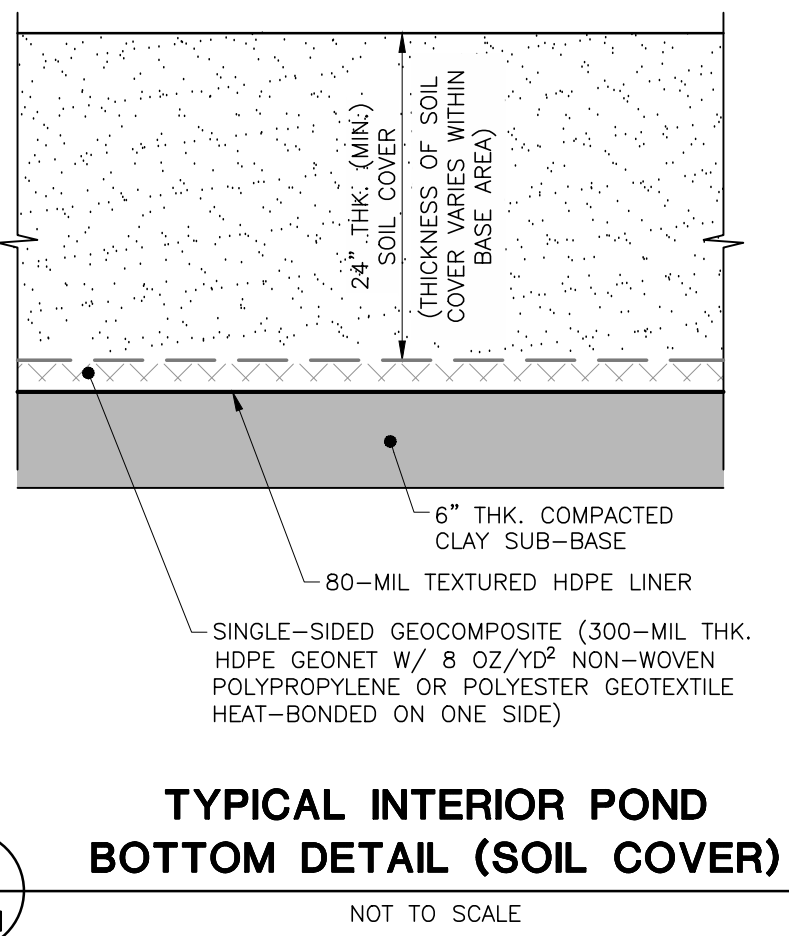
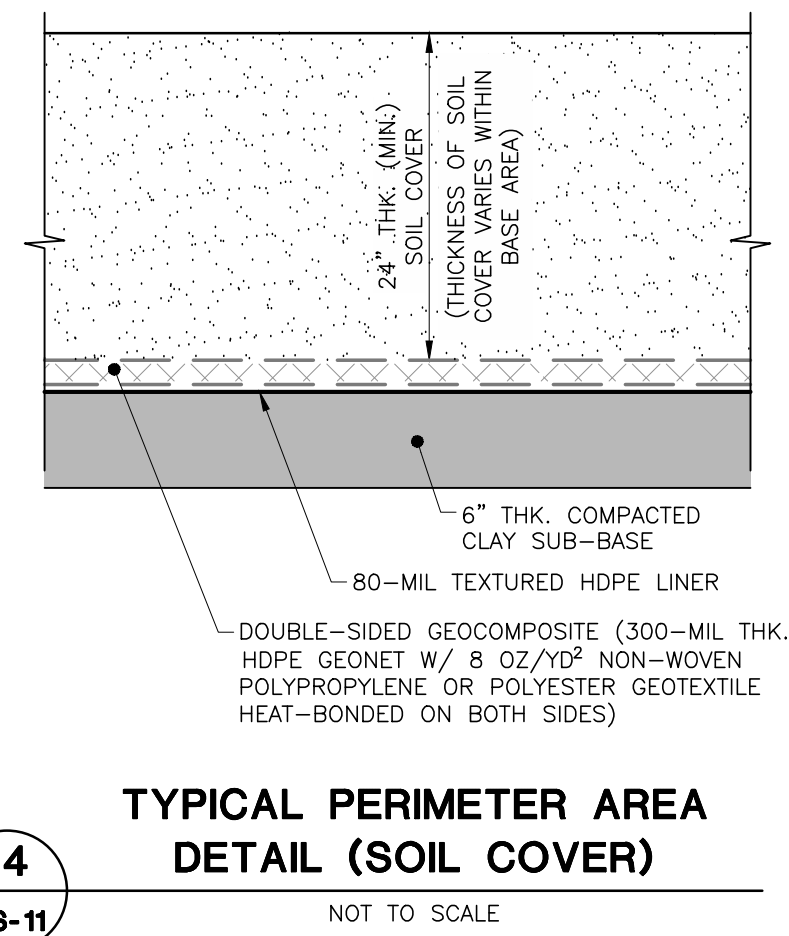
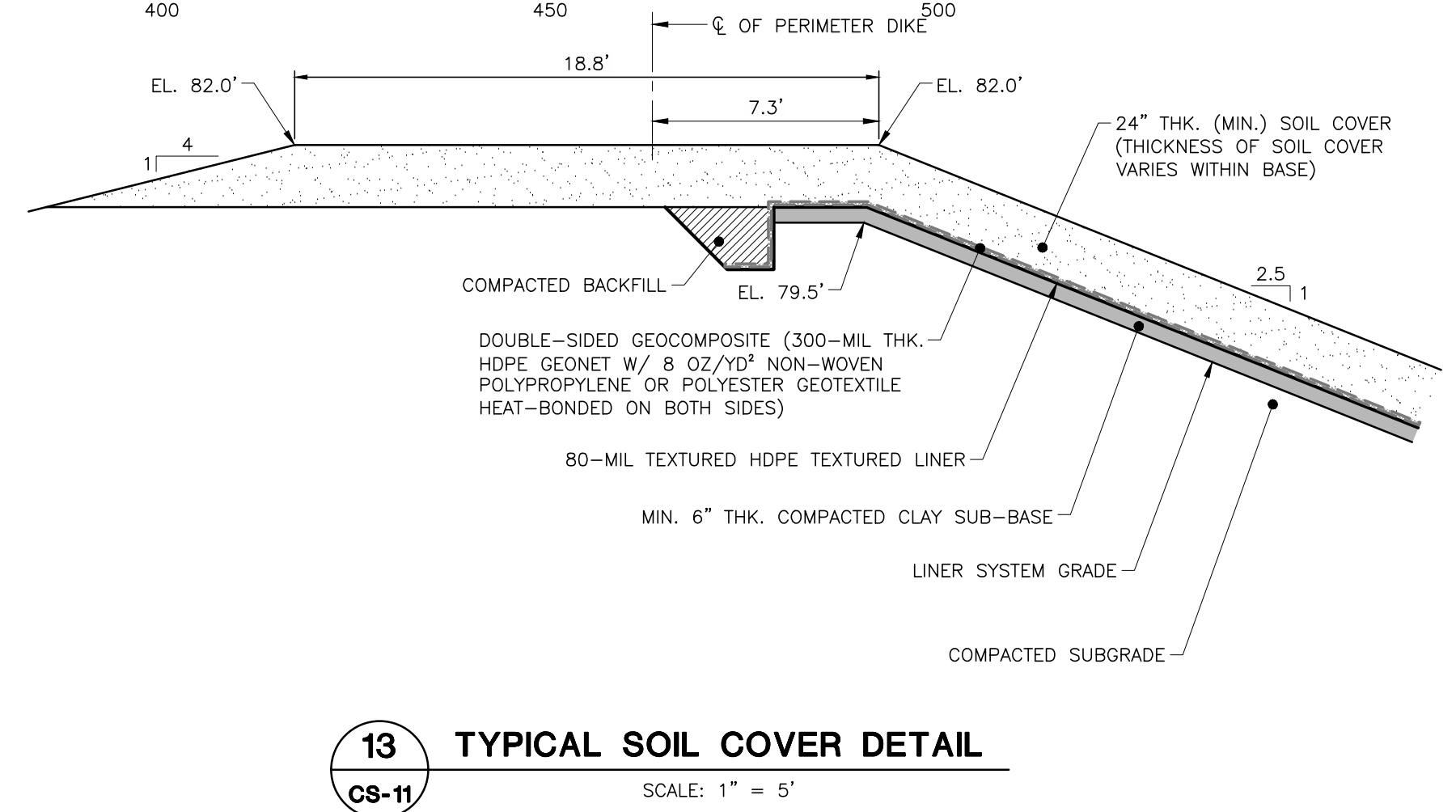
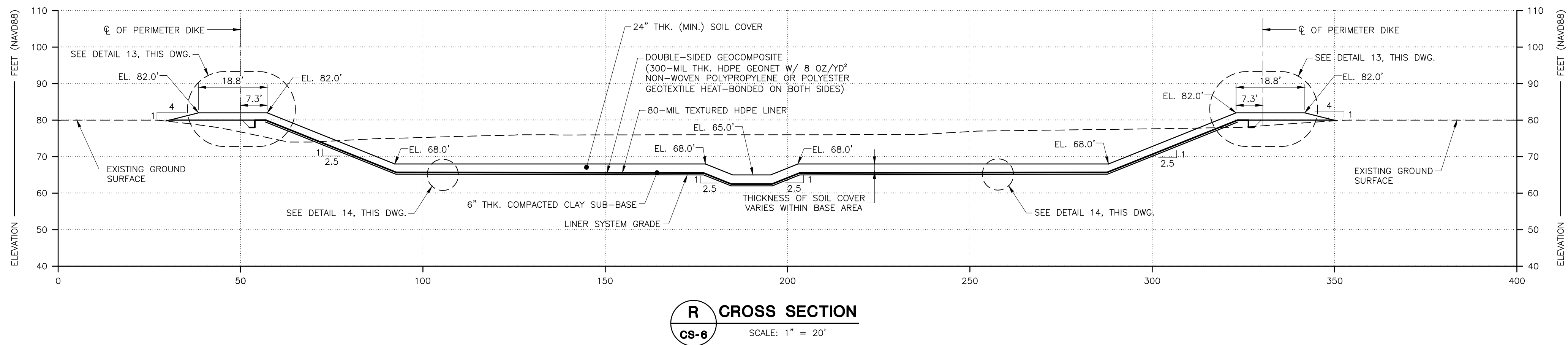
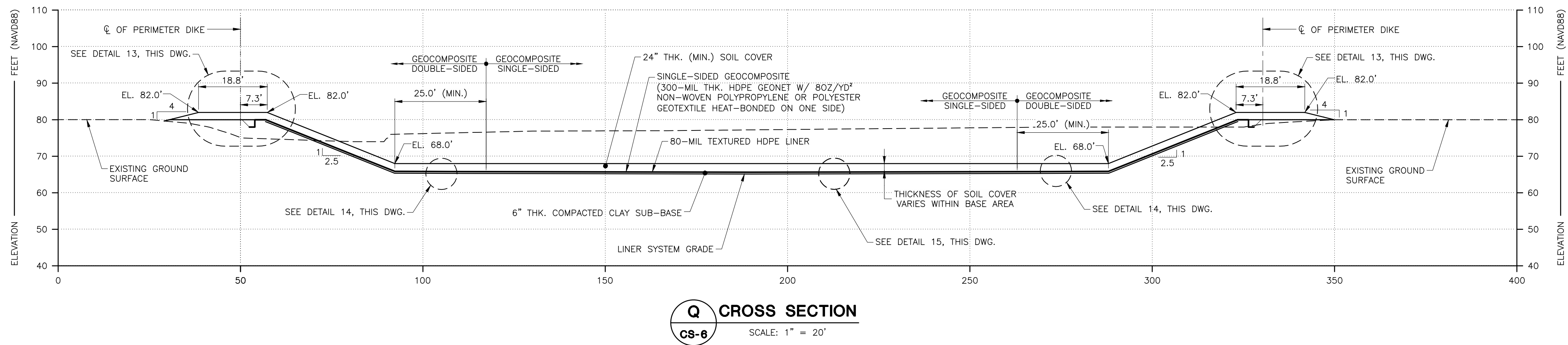
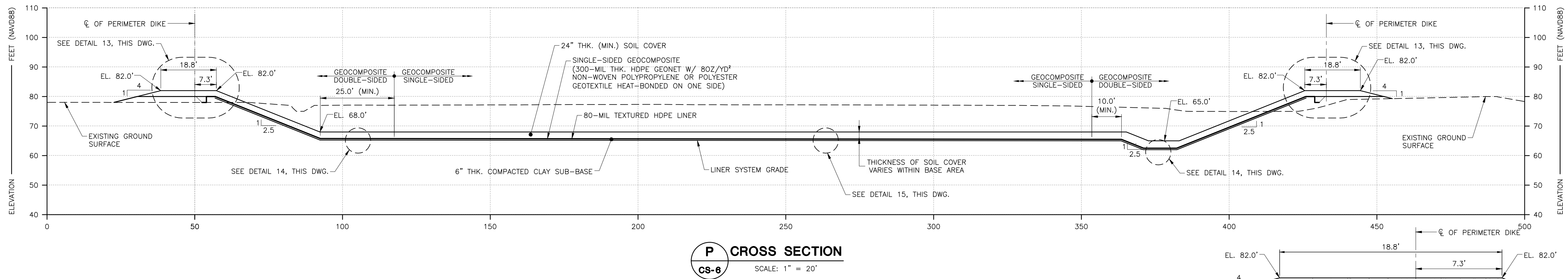
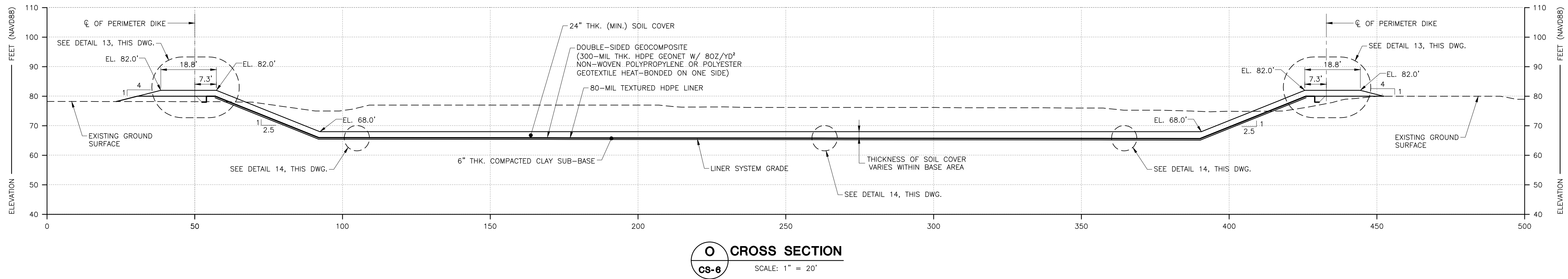
10 TYPICAL LINER GRADE DETAIL
CS-10
SCALE: 1" = 5'



11 TYPICAL PERIMETER AREA DETAIL (LINER GRADE)
CS-10
NOT TO SCALE



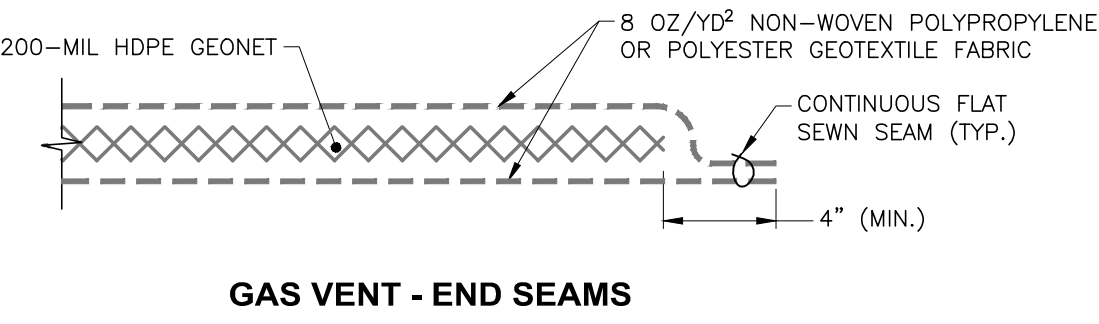
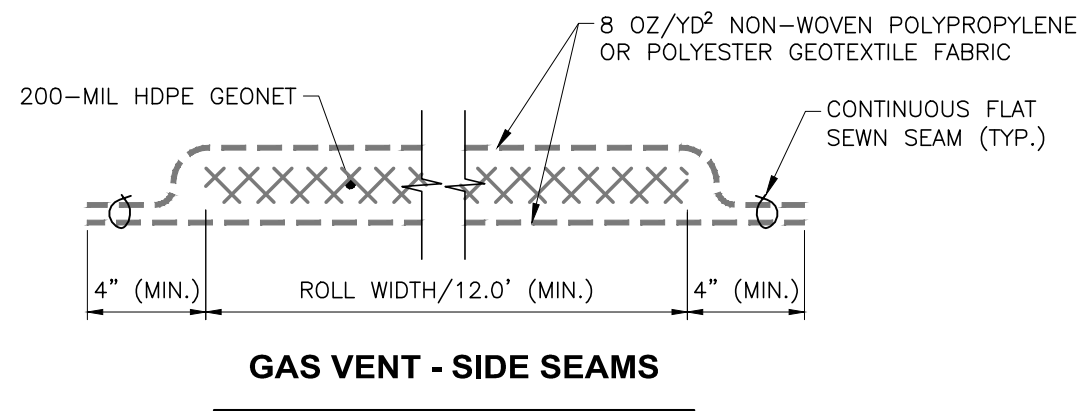
12 TYPICAL INTERIOR POND BOTTOM DETAIL (LINER GRADE)
CS-10
NOT TO SCALE



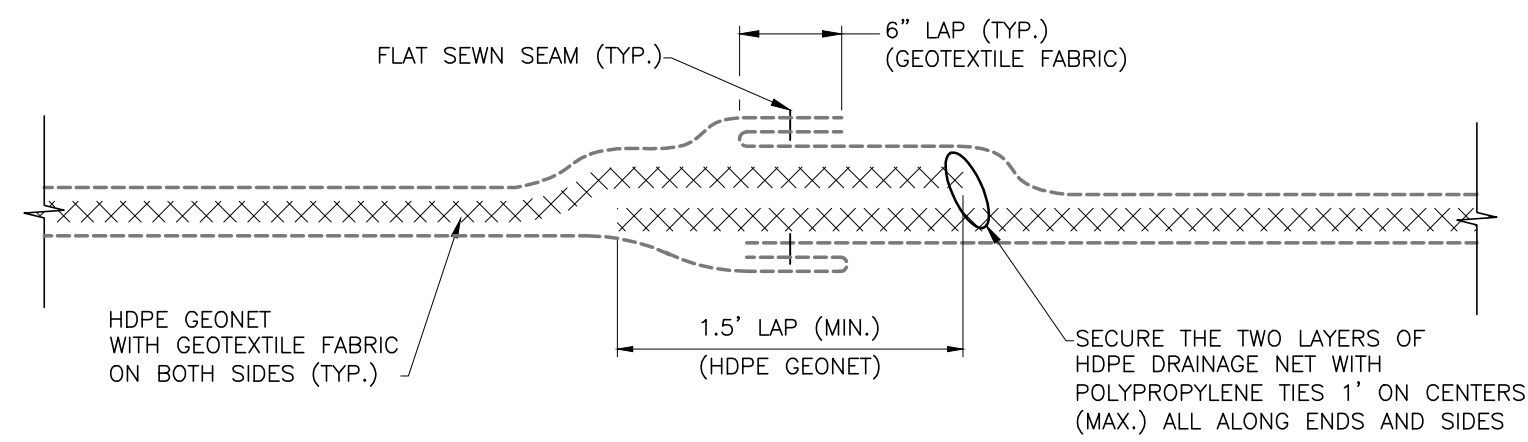
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

										 Ardaman & Associates, Inc. Geotechnical, Environmental, and Materials Consultants <i>A Tetra Tech Company</i> 8008 S. Orange Ave. Orlando, FL 32809 TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950		 SEDIMENTATION POND OUC STANTON ENERGY CENTER ORANGE COUNTY, FLORIDA		FINAL GRADING CROSS SECTIONS S THROUGH V AND DETAILS		DRAWING NO. CS-12	
										DESIGNED BY JM 08/08/14 CHECKED BY DJC 08/20/14 DRAWN BY PS 08/08/14 CHECKED BY MH 08/25/14		FILE NO.: 13-13-0166 SCALE: AS SHOWN					
PO 08/25/14 ISSUED FOR REGULATORY REVIEW										APPROVED BY:							
REVISION DATE DESCRIPTION APPR'D										APPROVED BY:							

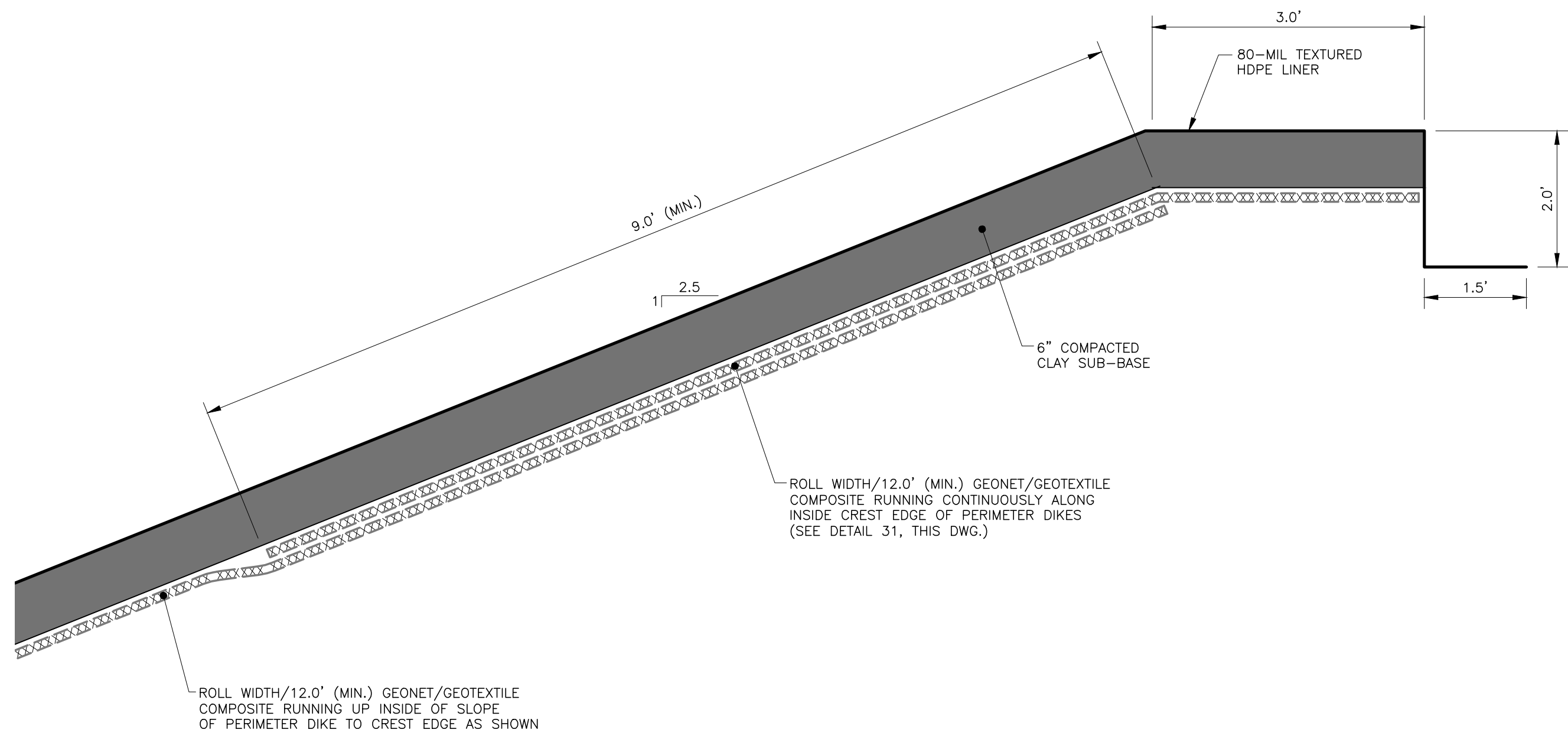
T:\Corporate\13\13-13-0166\SOOTH COAL STORAGE AREA RUNOFF Pond\Current Sheet Set\CS-12 FINAL GRADING CROSS SECTIONS S THROUGH V AND DETAILS.dwg 8/25/2014 4:34:04 PM Paula.Soto



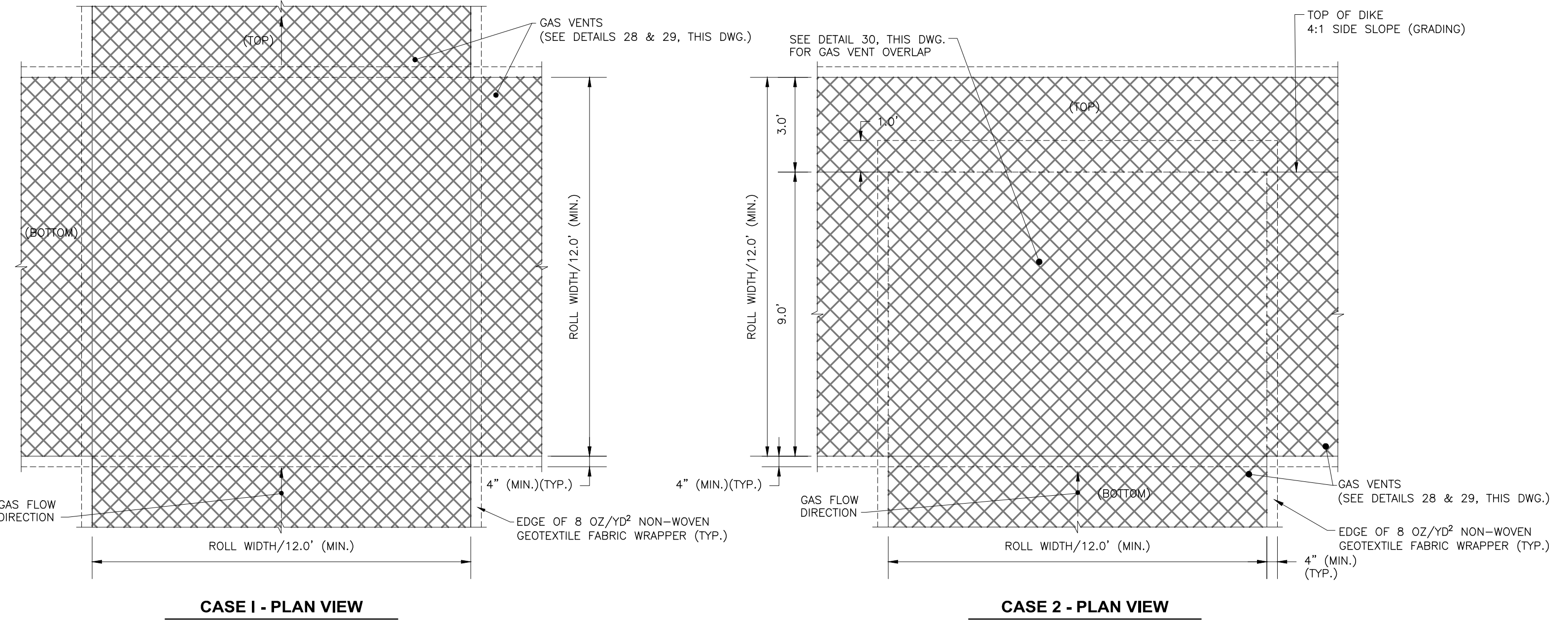
19 GAS VENT DETAIL
D-1 NOT TO SCALE



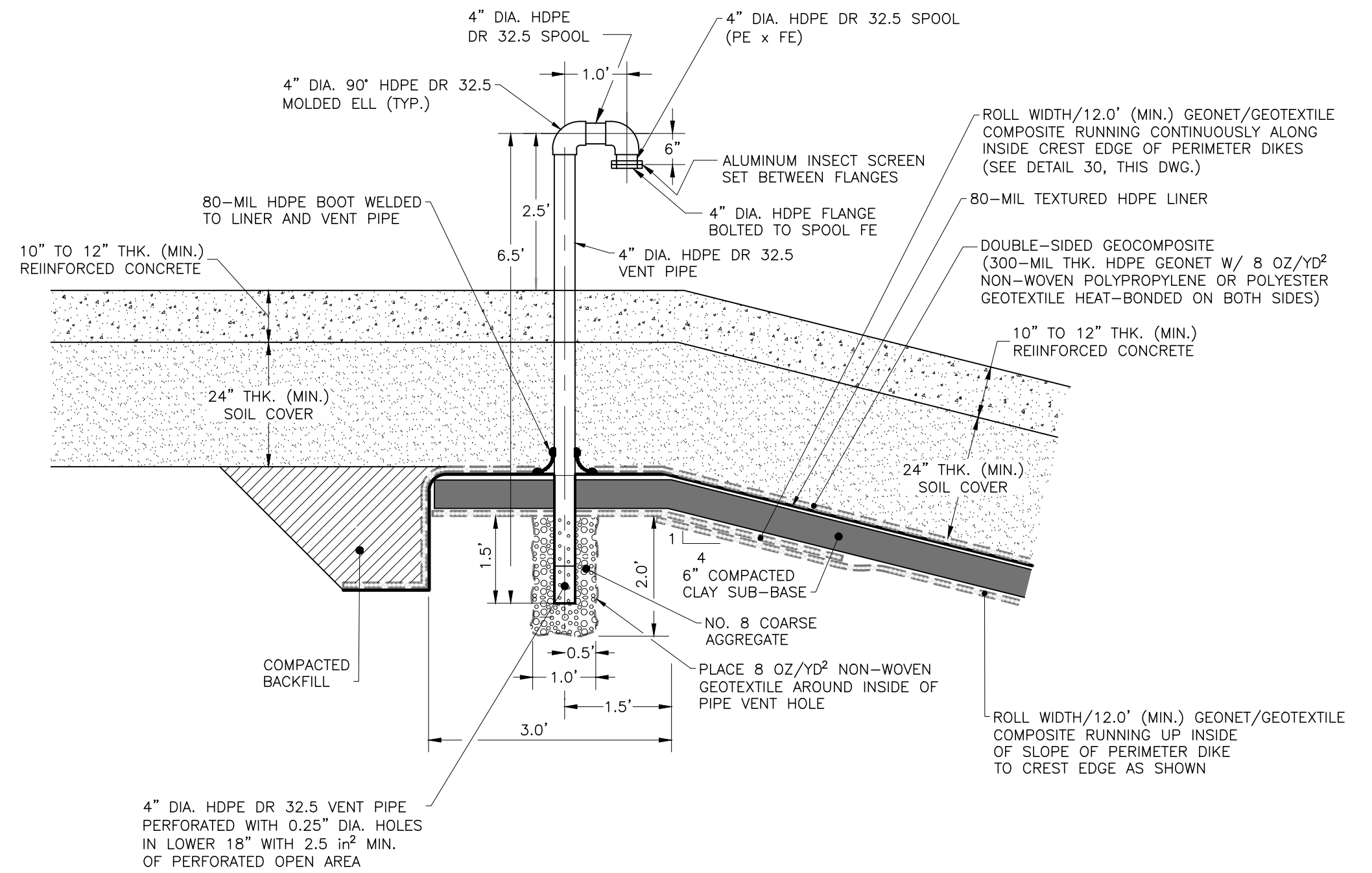
20 GEOCOMPOSITE CONNECTION DETAIL (END-TO-END)
D-1 NOT TO SCALE



21 GAS VENT OVERLAP AT CREST OF PERIMETER DIKE DETAIL
D-1 D-2 NOT TO SCALE



22 GAS VENT OVERLAP DETAIL
D-1 SCALE: 1" = 3'



23 GAS VENT ASSEMBLY DETAIL
D-1 NOT TO SCALE

T:\Corporado\13\13-13-0166\SOOTH COAL STORAGE AREA RINOFF POND_Current Sheet Set\13-1 GAS VENT DETAILS.dwg 8/22/2014 4:34:18 PM Paul.Soto

DESIGNED BY	JM	08/08/14	CHECKED BY	DJC	08/20/14
DRAWN BY	PS	08/08/14	CHECKED BY	MH	08/25/14
FILE NO.	13-13-0166	SCALE	AS SHOWN		
APPROVED BY:					

REVISION	DATE	DESCRIPTION	APPR'D	REVISION	DATE	DESCRIPTION	APPR'D
	P0	08/25/14	ISSUED FOR REGULATORY REVIEW				

Ardaman & Associates, Inc.
Geotechnical, Environmental, and
Materials Consultants
A Tetra Tech Company
8008 S. Orange Ave. Orlando, FL 32809
TEL 407/855-3860 FAX 407/859-8121 C.A.N. 5950

ouc
The Reliable One®

SEDIMENTATION POND
ouc STANTON ENERGY CENTER
ORANGE COUNTY, FLORIDA

GAS VENT DETAILS
D-1

DRAWING NO.



D-3