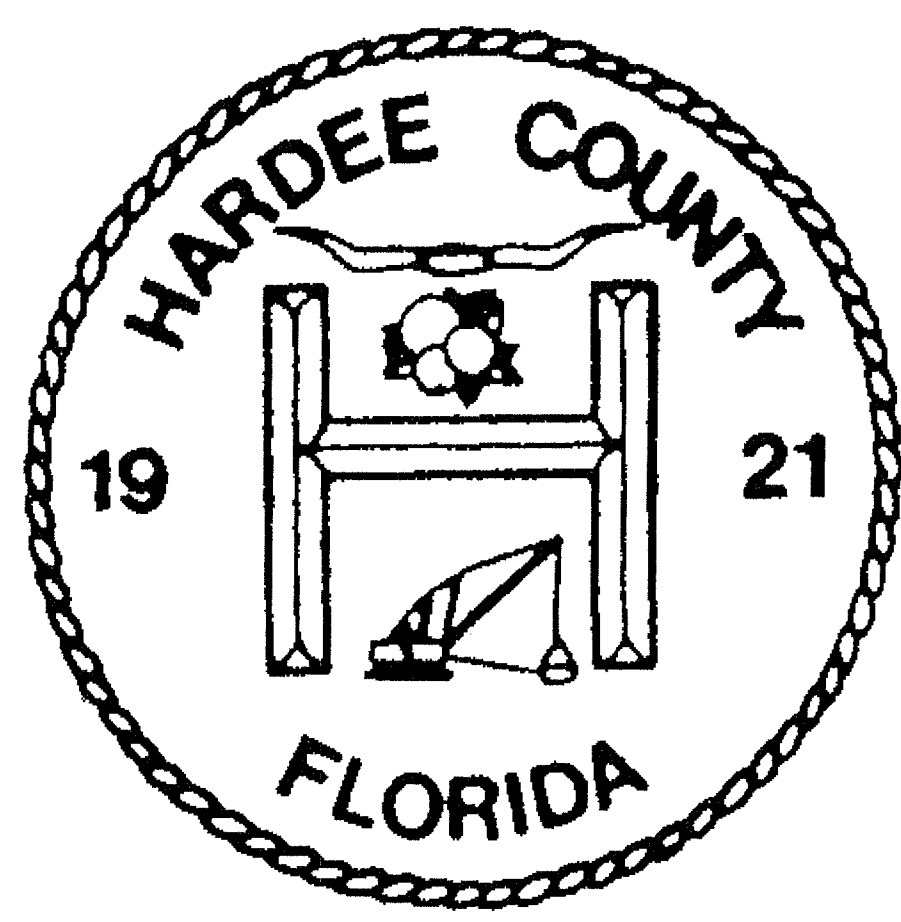


HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION DRAWINGS PHASE II SECTION I

PREPARED FOR
BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY, FLORIDA
MARCH 2006



LOCATION MAP
NOT TO SCALE

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3012 U.S. HWY. 301 N. SUITE 700
TAMPA, FLORIDA 33610
PH (813) 621-0080 FAX NO. (813) 623-6757
WWW.SCSENGINEERS.COM
FLORIDA CERTIFICATE OF AUTHORIZATION No. 00004892

DRAWING INDEX		
DRAWING NO.		DRAWING TITLE
1	-	COVER SHEET
2	-	FACILITY LAYOUT
3	-	EXISTING CONDITIONS - NORTH
4	-	EXISTING CONDITIONS - SOUTH
5	-	PHASE II - GROUNDWATER CONTROL SYSTEM PLAN
6	-	PHASE II - STORMWATER MANAGEMENT IMPROVEMENTS
7	-	PHASE II - SECTION I TOP OF GEOMEMBRANE PLAN
8	-	PHASE II - SECTION I SITE PLAN
9	-	EROSION AND SEDIMENTATION CONTROL PLAN
10	-	DETAILS - 1
11	-	DETAILS - 2
12	-	DETAILS - 3
13	-	DETAILS - 4
14	-	DETAILS - 5
15	-	DETAILS - 6
16	-	DETAILS - 7

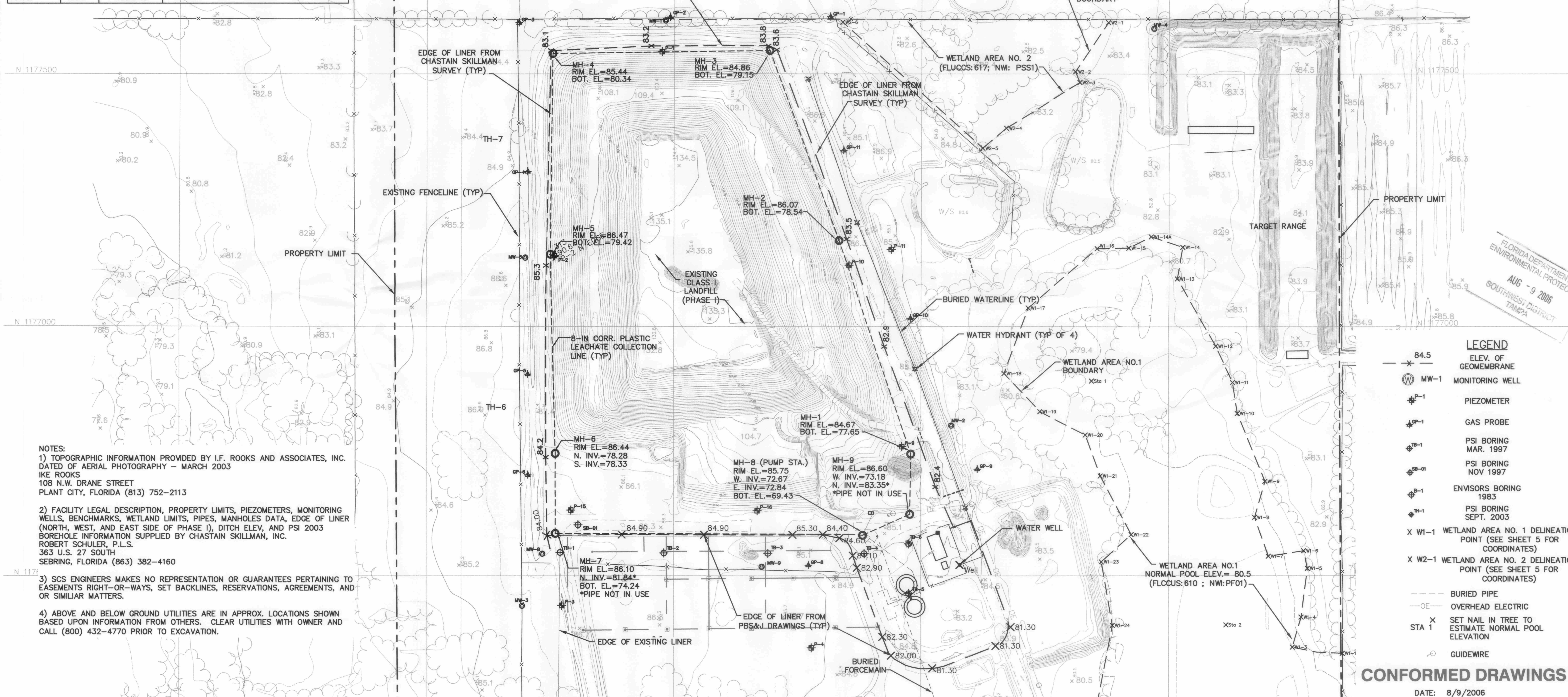
Dept. of Environmental
Protection
AUG 09 2006
Southwest District

CONFORMED DRAWINGS
DATE: 8/9/2006

SHANE R. FISCHER
FLORIDA PROFESSIONAL ENGINEER
No. 118026
DATE 8/9/2006

These drawings not approved! FILE

EXISTING LAND USE						
DESCRIPTION	ACREAGE (AC)	PERCENT OF TOTAL PROJECT	FLUCCS CODE	NWI CODE	FLUCCS DESCRIPTION	NWI DESCRIPTION
IMPERVIOUS	5.8	5.0 %	814	--	ROAD/HIGHWAY	--
PERVIOUS	16.0	13.8 %	835	--	SOLID WASTE	--
STORMWATER MANAGEMENT	20.0	17.2 %	510	--	STREAM/WATERWAY	--
GRASSED AREA	62.6	54.0 %	212	--	UNIMPROVED PASTURE	--
WETLAND AREA NO. 1	10.2	8.8 %	610	PF01	WETLAND HARDWOOD	PALUSTRINE FORESTED
WETLAND AREA NO. 2	1.7	1.4 %	617	PSS1	MIXED WETLAND HARDWOOD	PALUSTRINE SCRUB-SCRU BROAD LEAF DECIDUOUS
TOTAL	116.0	100.0 %				



PAVED ROAD
CURB-GUTTER
DIRT ROAD
TRAIL
DRIVEWAYS
PARK—LOTS
SIDEWALKS
RUNWAYS
RR SINGLE
RR DOUBLE
WALLS
DRAINAGE

GUARDRAIL
RETAINING WALL
FENCES
PIPELINES
LAKE
RIVER
STREAM
TREE LINE
BRUSH LINE
HEDGE
GROVE

A series of seven horizontal lines illustrating the development of a musical staff. The first line is blank. The second line has four 'x' marks. The third line has a wavy line. The fourth line has a series of connected 'v' shapes. The fifth line has a series of connected 'w' shapes. The sixth line has a series of connected 'u' shapes. The seventh line has a series of connected 'm' shapes.

INDEX CONTOUR
OBSCURED INDEX
DEPRESSED INDEX
OBSCURED DEP INDEX
INTERMEDIATE CONTOUR
OBSCURED INTERMEDIATE
DEPRESSED INTERMEDIATE
OBSCURED DEP INTERMEDIATE
STRUCTURES

BUILDINGS

OUTLINE

SPOT HEIGHT
OBSCURED SPOT HEIGHT
CONTROL POINT

WATER SURFACE ELEV.
SWAMP
EDGE OF PAVEMENT
BUMPER
RAILROAD SIGNAL
RAILROAD SWITCH
RAILROAD CROSSING GATE

143.7
157.8 AT16
N 1515899.0000
E 520734.6370
El 79 7970

STREET LIGHT
TRAFFIC LIGHT
TOWER
UTILITY POLES
VALVE
FIRE HYDRANT
ELECTRICAL BOX
CATCH BASIN
DROP INLET
MANHOLE
MAILBOX
MISC. POST

SIGN
DOUBLE LEGGED SIGN
TELEPHONE BOOTH
ANTENNA
SATELLITE DISH
BIRD BATH
FLAG POLE
SHRUB
SINGLE TREE
PALM TREE
EVERGREEN TREE

1. THE UNDERSIGNED REGISTERED SURVEYOR & MAPPER CERTIFY THAT THIS MAP WAS COMPILED USING PHOTOGRAMMETRIC METHODS UNDER MY SUPERVISION AND THAT THE DATA SHOWN IN THIS MAP ARE THE RESULT OF THE BEST AVAILABLE DATA.

THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS, FLORIDA CHAPTER 61G17-6 (FLORIDA ADMINISTRATIVE CODE).

DATE OF PHOTOGRAPHY _____ ISSAC F. ROOKS, JR., PSM #541

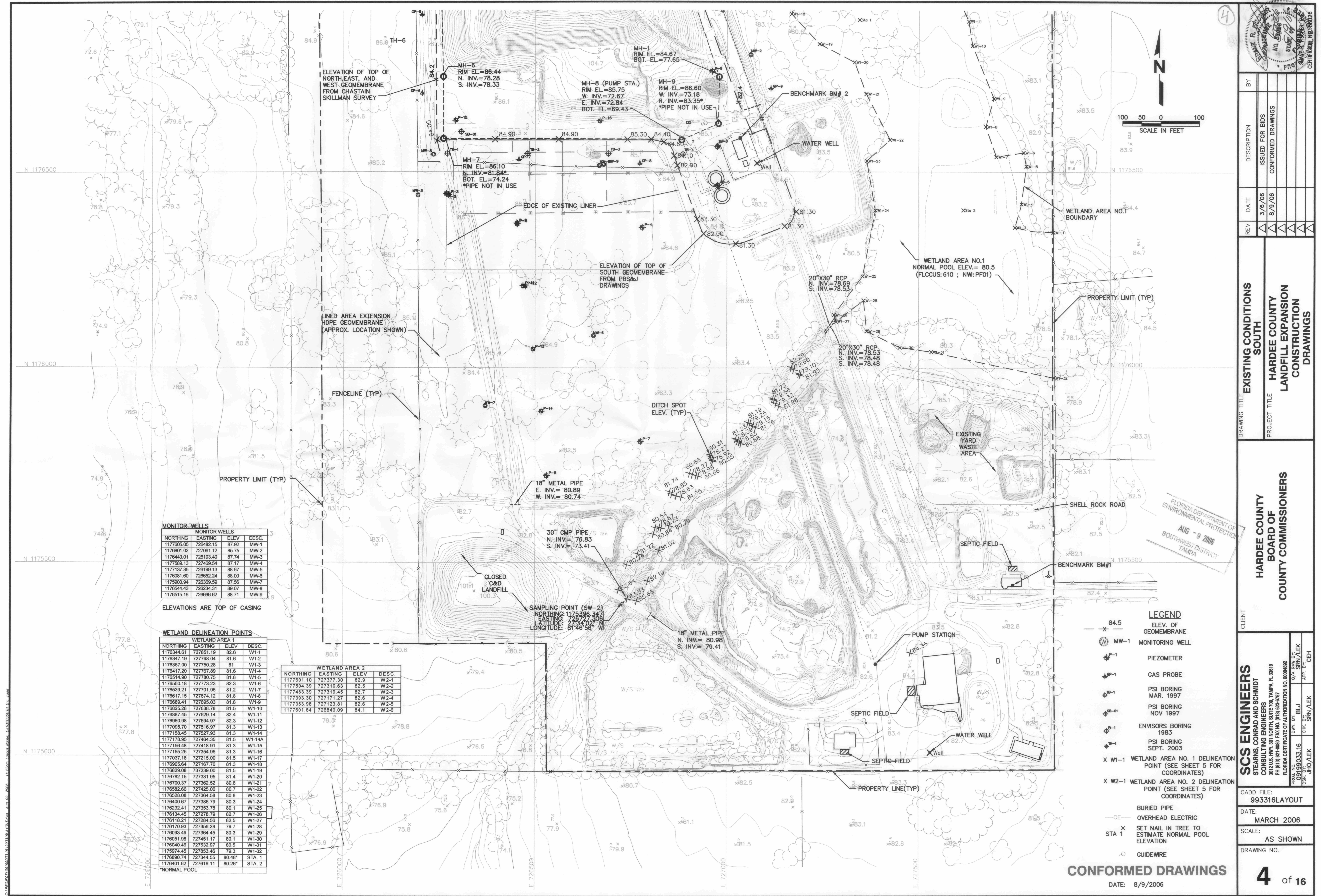
THIS MAP IS NEITHER FULL NOR COMPLETE, BEING ONLY THE "SURVEY AND MAP REPORT" AND DIGITAL FILE(S) REFERENCE IN SAID REPORT. UNLESS THIS MAP OR REPORT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE ABOVE FLORIDA LICENSED SURVEYOR & MAPPER, IT IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

<i>IFR NO.:</i>	<i>FILE:</i>
<i>SCALE:</i>	<i>CONT. INTERVAL:</i>
<i>DRAWN BY:</i>	<i>CHK. BY:</i>
<i>DATUM:</i>	
<i>REVISED:</i>	



L.F. ROOKS & ASSOCIATES, INC.
106 N.W. DRANE ST. PHOTOGRAMMETRY
PLANT CITY, FL 33566
(813) 752-2113

SCS ENGINEERS STARNES, CONRAD AND SCHMIDT CONSULTING ENGINEERS 500 N. MIAMI AVE., SUITE 100, MIAMI, FL 33139 PH (305) 581-0800 FAX NO. (305) 583-6757 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882 PROJ. NO. 09199033.16 DWG. BY: C/A R.W. BY: SRN/LEK DESIGNED BY: BLJ CHK'D BY: SRN/LEK DATE: 03/10/06 APP'D BY: CEH		CLIENT HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS DRAWING TITLE EXISTING CONDITIONS NORTH PROJECT TITLE HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION DRAWINGS	REV. DATE DESCRIPTION BY 1 3/6/06 ISSUED FOR BIDS 2 8/9/06 CONFORMED DRAWINGS 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481
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MONITOR WELLS

NORTHING	EASTING	ELEV.	DESC.
1177605.05	726482.15	87.92	MW-1
1176801.02	727061.12	85.75	MW-2
1176440.01	726193.40	87.74	MW-3
1177589.13	727469.54	87.17	MW-4
1177137.35	726199.13	88.67	MW-5
1176081.60	726862.24	88.00	MW-6
1176903.94	726369.59	87.56	MW-7
1176944.43	726234.31	89.07	MW-8
1176515.16	726666.82	88.71	MW-9

ELEVATIONS ARE TOP OF CASING

WETLAND DELINEATION POINTS

NORTHING	EASTING	ELEV.	DESC.
1176344.61	727851.19	82.6	W1-1
1176347.19	727798.04	81.6	W1-2
1176357.00	727750.28	81	W1-3
1176417.20	727767.89	81.6	W1-4
1176514.90	727780.75	81.8	W1-5
1176550.18	727773.23	82.3	W1-6
1176539.21	727701.95	81.2	W1-7
1176617.15	727674.12	81.8	W1-8
1176689.41	727695.03	81.8	W1-9
1176825.28	727638.78	81.5	W1-10
1176887.45	727629.14	82.4	W1-11
1176960.98	727594.97	82.3	W1-12
1177059.70	727516.97	81.3	W1-13
1177158.45	727527.93	81.3	W1-14
1177178.95	727464.35	81.5	W1-14A
1177156.48	727418.91	81.3	W1-15
1177155.25	727354.95	81.3	W1-16
1177037.18	727215.00	81.5	W1-17
1176905.64	727167.76	81.3	W1-18
1176839.08	727239.00	81.5	W1-19
1176782.15	727331.95	81.4	W1-20
1176700.37	727362.52	80.6	W1-21
1176582.66	727425.00	80.7	W1-22
1176528.08	727364.58	80.8	W1-23
1176400.67	727386.79	80.3	W1-24
1176232.41	727353.75	80.1	W1-25
1176134.45	727278.79	82.7	W1-26
1176118.21	727284.56	82.5	W1-27
1176170.93	727356.28	79.7	W1-28
1176093.49	727364.45	80.3	W1-29
1176051.98	727451.17	80.1	W1-30
1176040.46	727532.97	80.5	W1-31
1175974.45	727553.46	79.3	W1-32
1176890.74	727344.55	80.48*	STA. 1
1176401.62	727616.11	80.28*	STA. 2

*NORMAL POOL

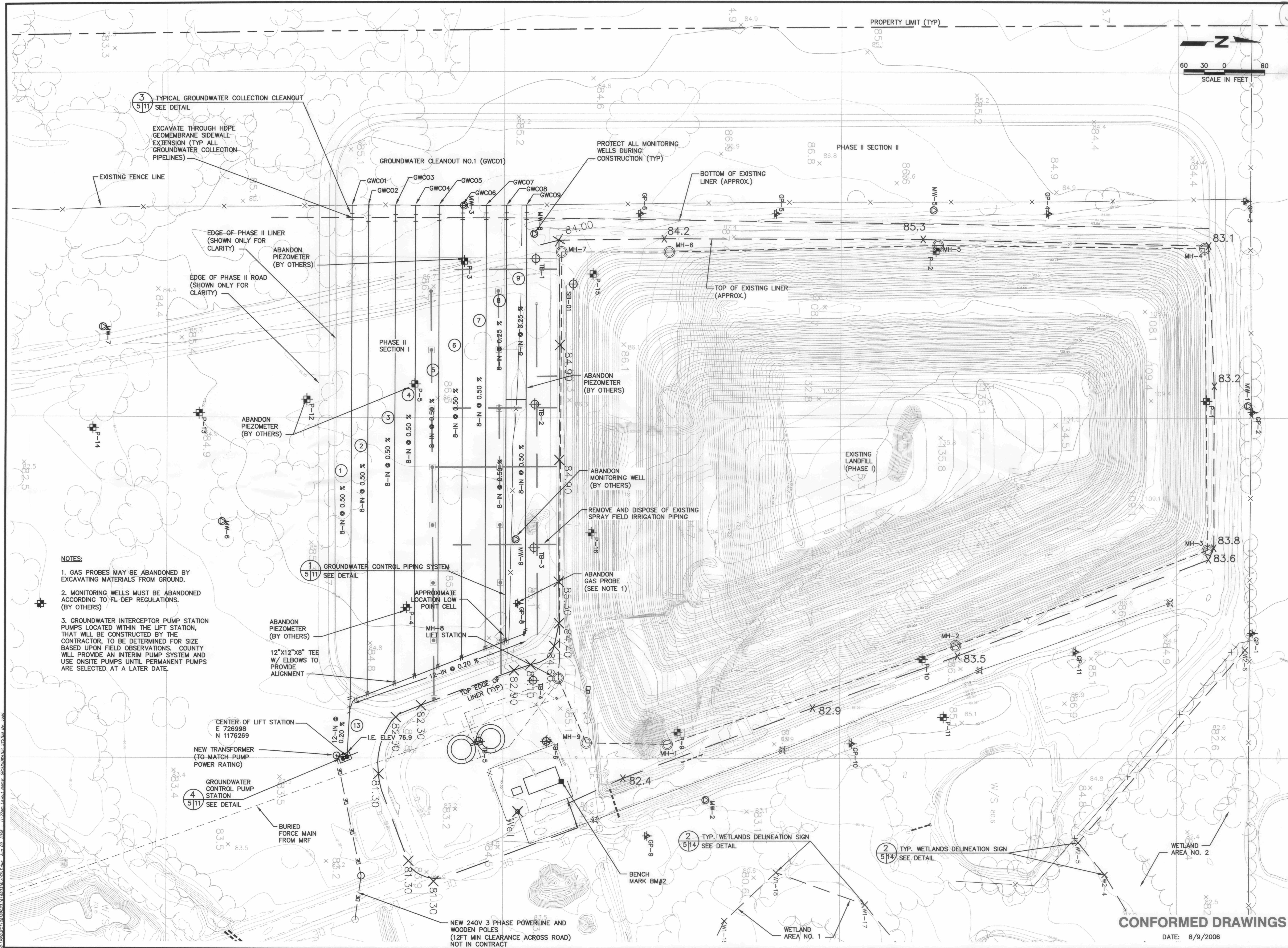
WETLAND AREA 2

NORTHING	EASTING	ELEV.	DESC.
1177601.10	727377.30	82.9	W2-1
1177504.39	727310.63	82.5	W2-2
1177483.39	727319.45	82.7	W2-3
1177393.30	727171.27	82.6	W2-4
1177353.98	727123.81	82.6	W2-5
1177601.64	726840.09	84.1	W2-6

- LEGEND**
- 84.5 ELEV. OF GEOMEMBRANE
 - MW-1 MONITORING WELL
 - P-1 PIEZOMETER
 - GP-1 GAS PROBE
 - PSI BORING MAR. 1997
 - PSI BORING NOV. 1997
 - ENVIROS BORING 1983
 - PSI BORING SEPT. 2003
 - X W1-1 WETLAND AREA NO. 1 DELINEATION POINT (SEE SHEET 5 FOR COORDINATES)
 - X W2-1 WETLAND AREA NO. 2 DELINEATION POINT (SEE SHEET 5 FOR COORDINATES)
 - BURIED PIPE
 - OE OVERHEAD ELECTRIC
 - STA 1 SET NAIL IN TREE TO ESTIMATE NORMAL POOL ELEVATION
 - GUIDEWIRE

CONFORMED DRAWINGS
DATE: 8/9/2006

BY		DESCRIPTION	
3/6/06		ISSUED FOR BIDS	
8/9/06		CONFORMED DRAWINGS	
REV		DATE	
1		3/6/06	
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- NOTES:
1. GAS PROBES MAY BE ABANDONED BY EXCAVATING MATERIALS FROM GROUND.
 2. MONITORING WELLS MUST BE ABANDONED ACCORDING TO FL DEP REGULATIONS. (BY OTHERS)
 3. GROUNDWATER INTERCEPTOR PUMP STATION PUMPS LOCATED WITHIN THE LIFT STATION, THAT WILL BE CONSTRUCTED BY THE CONTRACTOR, TO BE DETERMINED FOR SIZE BASED UPON FIELD OBSERVATIONS. COUNTY WILL PROVIDE AN INTERIM PUMP SYSTEM AND USE ONSITE PUMPS UNTIL PERMANENT PUMPS ARE SELECTED AT A LATER DATE.

BY		DESCRIPTION	DATE	REV
		ISSUED FOR BIDS	3/6/06	1
		CONFORMED DRAWINGS	8/9/06	2
				3
				4
				5

DRAWING TITLE	PROJECT TITLE
PHASE II GROUNDWATER CONTROL SYSTEM PLAN	HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION DRAWINGS

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	
AUG - 9 2006	
CLIENT: HARDEE COUNTY	

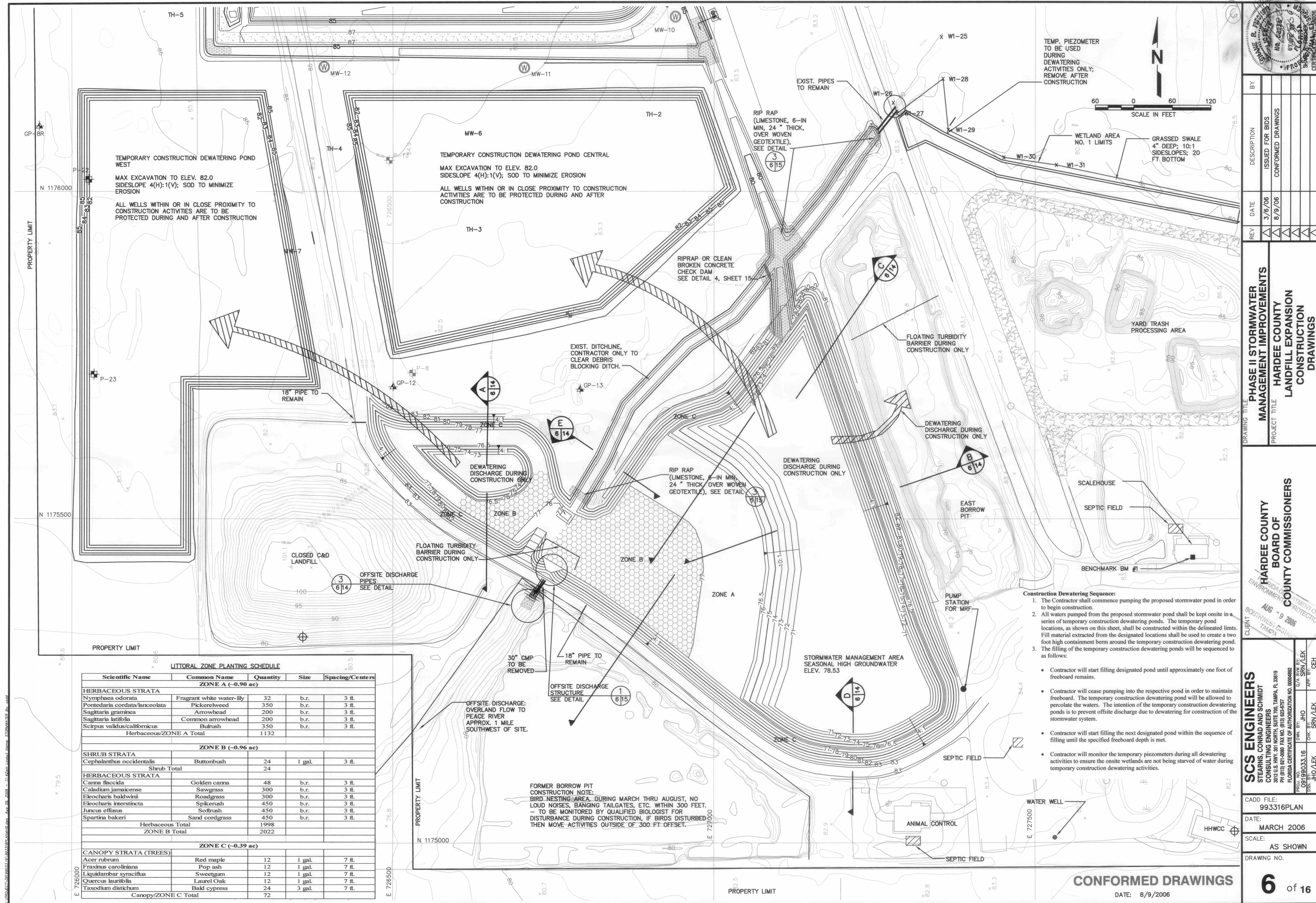
SCS ENGINEERS	STEARNES, CONRAD AND SCHMIDT	CONSULTING ENGINEERS
3012 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619		
PH (813) 641-0080 FAX (813) 623-6757		
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882		
PROJECT NO.	DRAWN BY	CHECKED BY
091990333.19	BLJ	SRV/LEK
DATE	APP.	BY
8/9/06	SRV/LEK	CEH

CADD FILE:	993316LAYOUT
DATE:	MARCH 2006
SCALE:	AS SHOWN
DRAWING NO.	

CONFORMED DRAWINGS

DATE: 8/9/2006

5 of 16



TEMPORARY CONSTRUCTION DEWATERING POND WEST
MAX EXCAVATION TO ELEV. 82.0
SIDESLOPE 4(H):1(V); SOD TO MINIMIZE EROSION
ALL WELLS WITHIN OR IN CLOSE PROXIMITY TO CONSTRUCTION ACTIVITIES ARE TO BE PROTECTED DURING AND AFTER CONSTRUCTION

TEMPORARY CONSTRUCTION DEWATERING POND CENTRAL
MAX EXCAVATION TO ELEV. 82.0
SIDESLOPE 4(H):1(V); SOD TO MINIMIZE EROSION
ALL WELLS WITHIN OR IN CLOSE PROXIMITY TO CONSTRUCTION ACTIVITIES ARE TO BE PROTECTED DURING AND AFTER CONSTRUCTION

TEMP. PIEZOMETER TO BE USED DURING DEWATERING ACTIVITIES ONLY; REMOVE AFTER CONSTRUCTION

SCALE IN FEET
60 0 60 120

SCS ENGINEERS
STEARN, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3012 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619
PH (813) 621-0880 FAX (813) 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
DWN. BY: JHO
CHK. BY: SRN/LEK
APP. BY: CEH

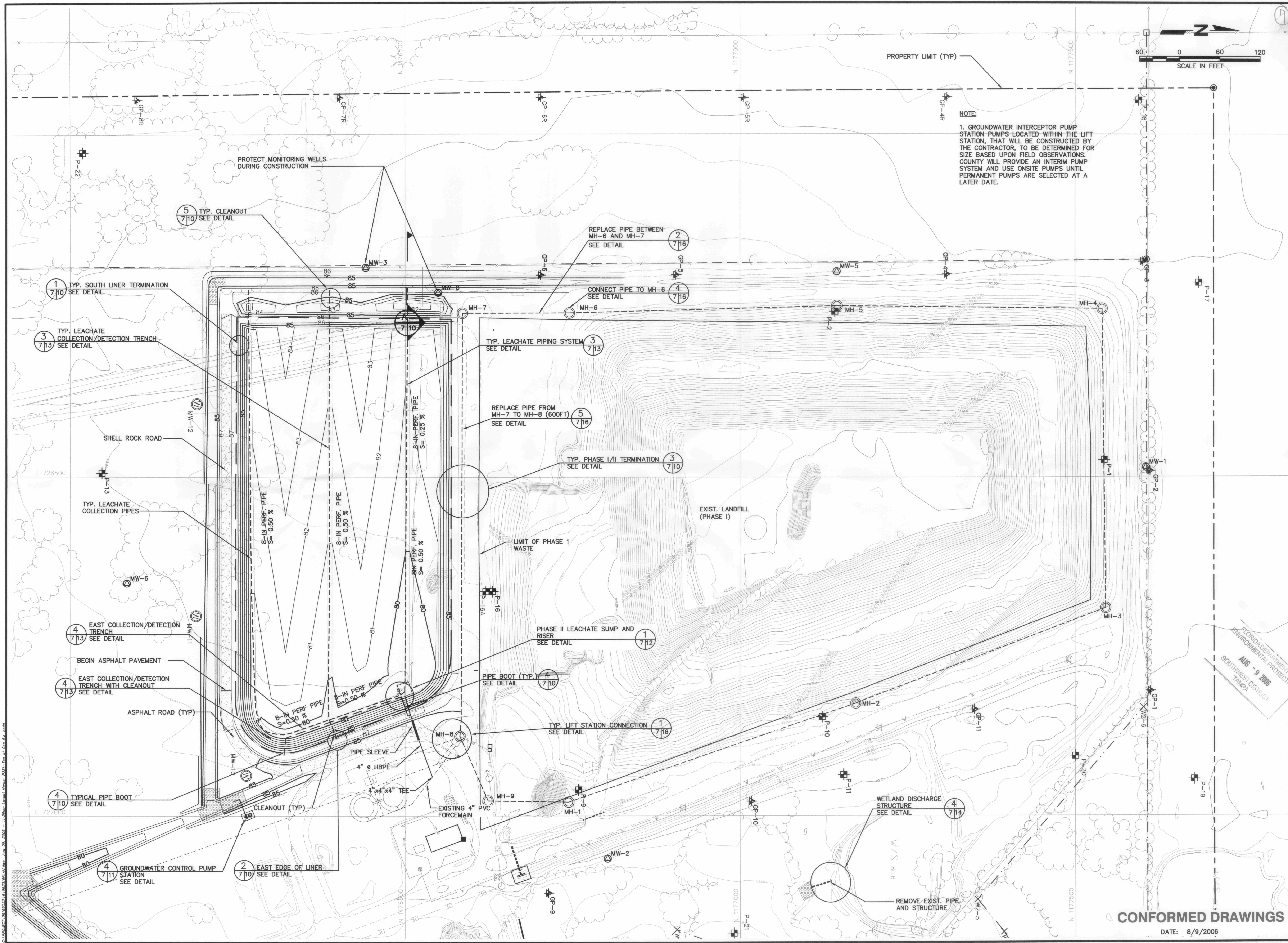
PHASE II STORMWATER
MANAGEMENT IMPROVEMENTS
HARDEE COUNTY
LANDFILL EXPANSION
CONSTRUCTION
DRAWINGS

CLIENT: HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS
CADD FILE: 993316PLAN
DATE: MARCH 2006
SCALE: AS SHOWN
DRAWING NO. 6 of 16

CONFORMED DRAWINGS
DATE: 8/9/2006

LITTORAL ZONE PLANTING SCHEDULE

Scientific Name	Common Name	Quantity	Size	Spacing/Centers
ZONE A (-0.90 ac)				
HERBACEOUS STRATA				
Nymphaea odorata	Fragrant white water-lily	32	b.r.	3 ft.
Pontederia cordata/lanceolata	Pickersweed	350	b.r.	3 ft.
Sagittaria graminea	Arrowhead	200	b.r.	3 ft.
Sagittaria latifolia	Common arrowhead	200	b.r.	3 ft.
Scirpus validus/californicus	Bulrush	350	b.r.	3 ft.
Herbaceous/ZONE A Total		1132		
ZONE B (-0.96 ac)				
SHRUB STRATA				
Cephalanthus occidentalis	Buttonbush	24	1 gal.	3 ft.
Shrub Total		24		
HERBACEOUS STRATA				
Canna flaccida	Golden canna	48	b.r.	3 ft.
Caladium bicolor	Sawgrass	300	b.r.	3 ft.
Eleocharis baldwinii	Roadgrass	300	b.r.	3 ft.
Eleocharis interstincta	Spikerush	450	b.r.	3 ft.
Juncus effusus	Soft rush	450	b.r.	3 ft.
Spartina bakeri	Sand cordgrass	450	b.r.	3 ft.
Herbaceous Total		1998		
ZONE B Total		2022		
ZONE C (-0.39 ac)				
CANOPY STRATA (TREES)				
Acer rubrum	Red maple	12	1 gal.	7 ft.
Fraxinus caroliniana	Pop ash	12	1 gal.	7 ft.
Liquidambar styraciflua	Sweetgum	12	1 gal.	7 ft.
Quercus laurifolia	Laurel Oak	12	1 gal.	7 ft.
Taxodium distichum	Bald cypress	24	3 gal.	7 ft.
Canopy/ZONE C Total		72		



NOTE:
1. GROUNDWATER INTERCEPTOR PUMP STATION PUMPS LOCATED WITHIN THE LIFT STATION, THAT WILL BE CONSTRUCTED BY THE CONTRACTOR, TO BE DETERMINED FOR SIZE BASED UPON FIELD OBSERVATIONS. COUNTY WILL PROVIDE AN INTERIM PUMP SYSTEM AND USE ONSITE PUMPS UNTIL PERMANENT PUMPS ARE SELECTED AT A LATER DATE.

DATE: 8/9/06

REV: 1

DESCRIPTION: ISSUED FOR BIDS

CONFORMED DRAWINGS

BY: [Signature]

DATE: 8/9/06

DRAWING TITLE: PHASE II - SECTION 1

PROJECT TITLE: TOP OF GEOMEMBRANE PLAN

HARDEE COUNTY

LANDFILL EXPANSION

CONSTRUCTION

DRAWINGS

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

DATE: AUG - 9 2006

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT TAMPA

SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS

3012 U.S. HWY. 301 NORTH, SUITE 100, TAMPA, FL 33619

PH (813) 841-0000 FAX (813) 841-0001

FLORIDA CERTIFICATE OF AUTHORIZATION NO. 0000882

DATE: 09/03/03

BY: JHO/LEK

CHK: SRN/LEK

APP: CEH

CADD FILE: 993316PLAN

DATE: MARCH 2006

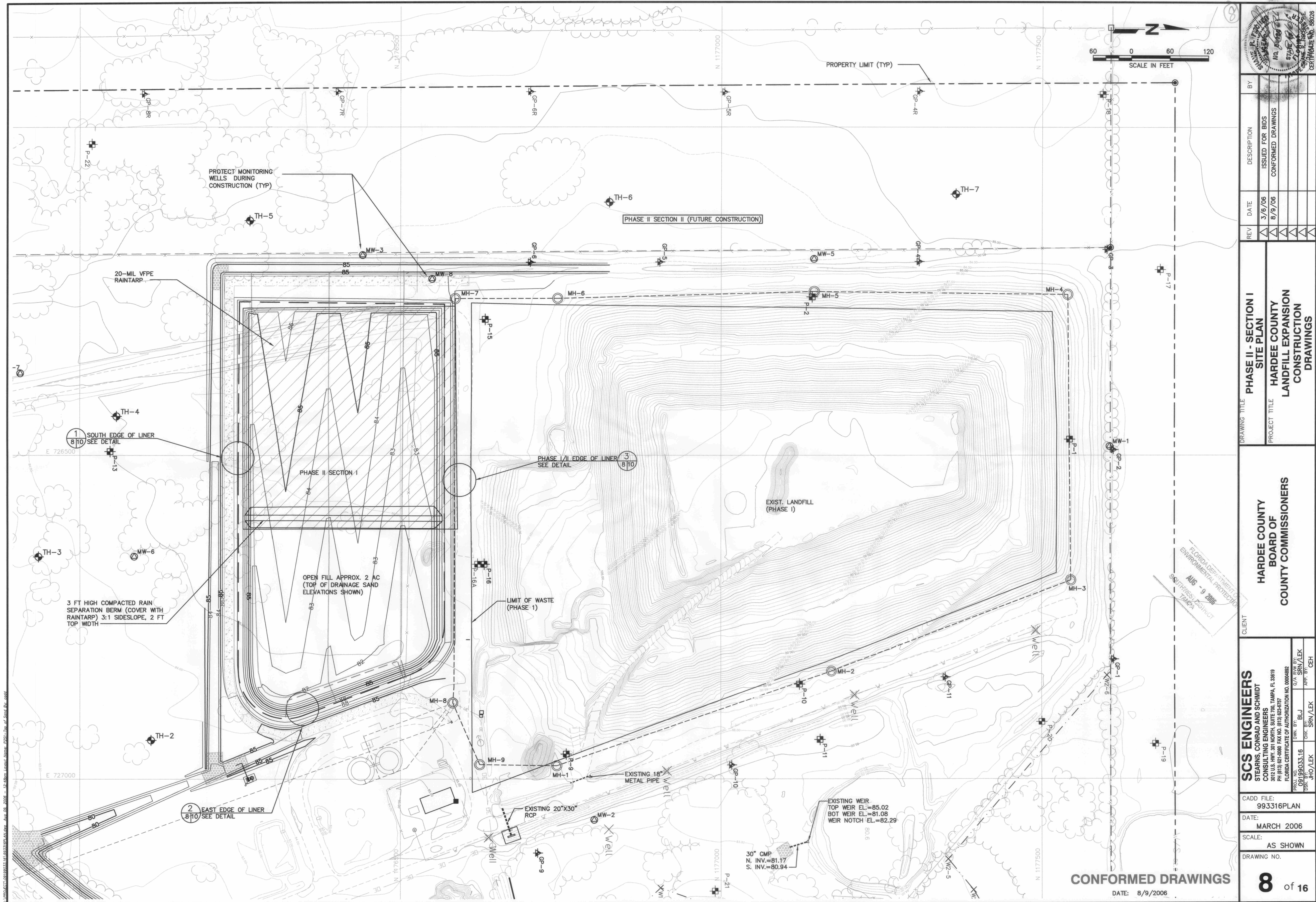
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DRAWING NO. 7 of 16

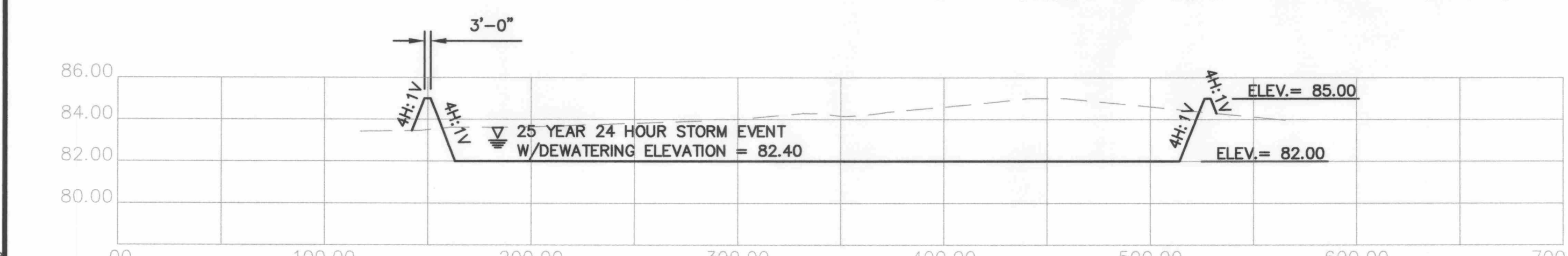
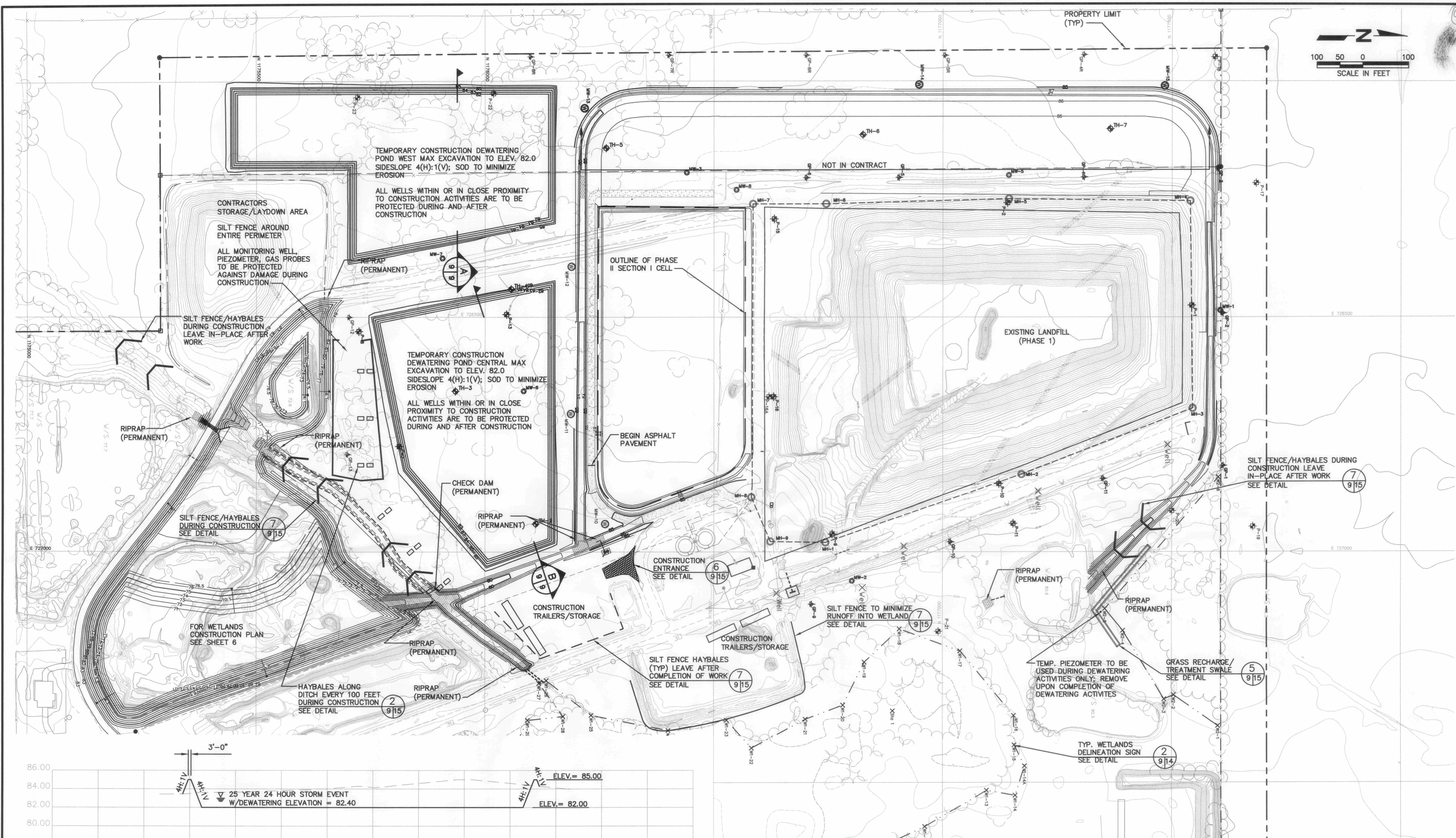
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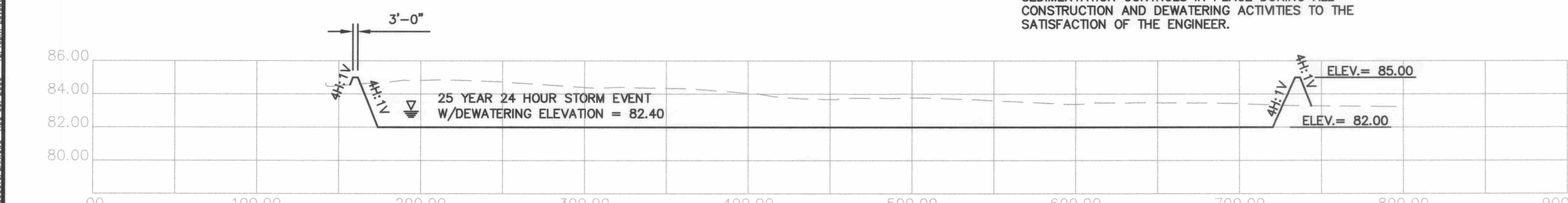
6/20/06 C:\D:\993316\993316.dwg AutoCAD 2006 - 11/26/06 Layout Name: 2702-Top of Geo Br. cadd



SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3012 U.S. HWY. 301 NORTH, SUITE 200, TAMPA, FL 33619 PH (813) 821-0088 FAX NO. (813) 823-6757 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882			CLIENT HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS		DRAWING TITLE PHASE II - SECTION I SITE PLAN	
CADD FILE: 993316PLAN			DATE: MARCH 2006		REV	
SCALE: AS SHOWN			DRAWING NO. 8 of 16		DATE	
PROJ. NO. 09199033.16			DWN. BY: BLJ		3/6/06	
TNSR. BY: JHO/LEK			CHK. BY: SRN/LEK		8/9/06	
C/A REV. BY: JHO/LEK			APP. BY: CEH		ISSUED FOR BIDS	
					CONFORMED DRAWINGS	

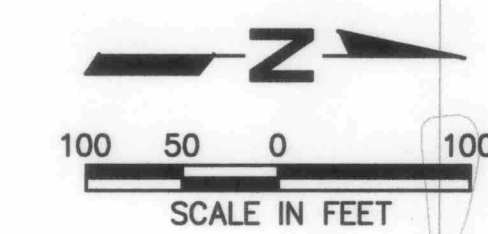


TEMPORARY CONSTRUCTION DEWATERING POND WEST A
SCALE: HORIZ = 1" = 50'
VERT = 1" = 4'



TEMPORARY CONSTRUCTION DEWATERING POND CENTRAL B
SCALE: HORIZ = 1" = 50'
VERT = 1" = 4'

- NOTE:**
1. ALL SLOPES ARE TO BE SODDED.
 2. CONTRACTOR SHALL HAVE EROSION AND SEDIMENTATION CONTROLS IN PLACE DURING ALL CONSTRUCTION AND DEWATERING ACTIVITIES TO THE SATISFACTION OF THE ENGINEER.



REV	DATE	DESCRIPTION	BY
1	3/6/06	ISSUED FOR BIDS	
2	8/9/06	CONFORMED DRAWINGS	
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7			
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9			
10			

DRAWING TITLE
EROSION AND SEDIMENTATION
CONTROL PLAN

PROJECT TITLE
HARDEE COUNTY
LANDFILL EXPANSION
CONSTRUCTION
DRAWINGS

CLIENT
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

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CONSULTING ENGINEERS
3012 U.S. HWY. 90 NORTH, SUITE 300, TAMPA, FL 33619
PH (813) 831-0080 FAX NO. (813) 832-4757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
PROJ. NO. 09199033.16
DWN. BY: JHO/LEK
CHK. BY: BLJ
APP. BY: CCH

CADD FILE:
993316PLAN

DATE:
MARCH 2006

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DRAWING NO.

CONFORMED DRAWINGS
DATE: 8/9/2006



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DETAIL

7, 10, 12



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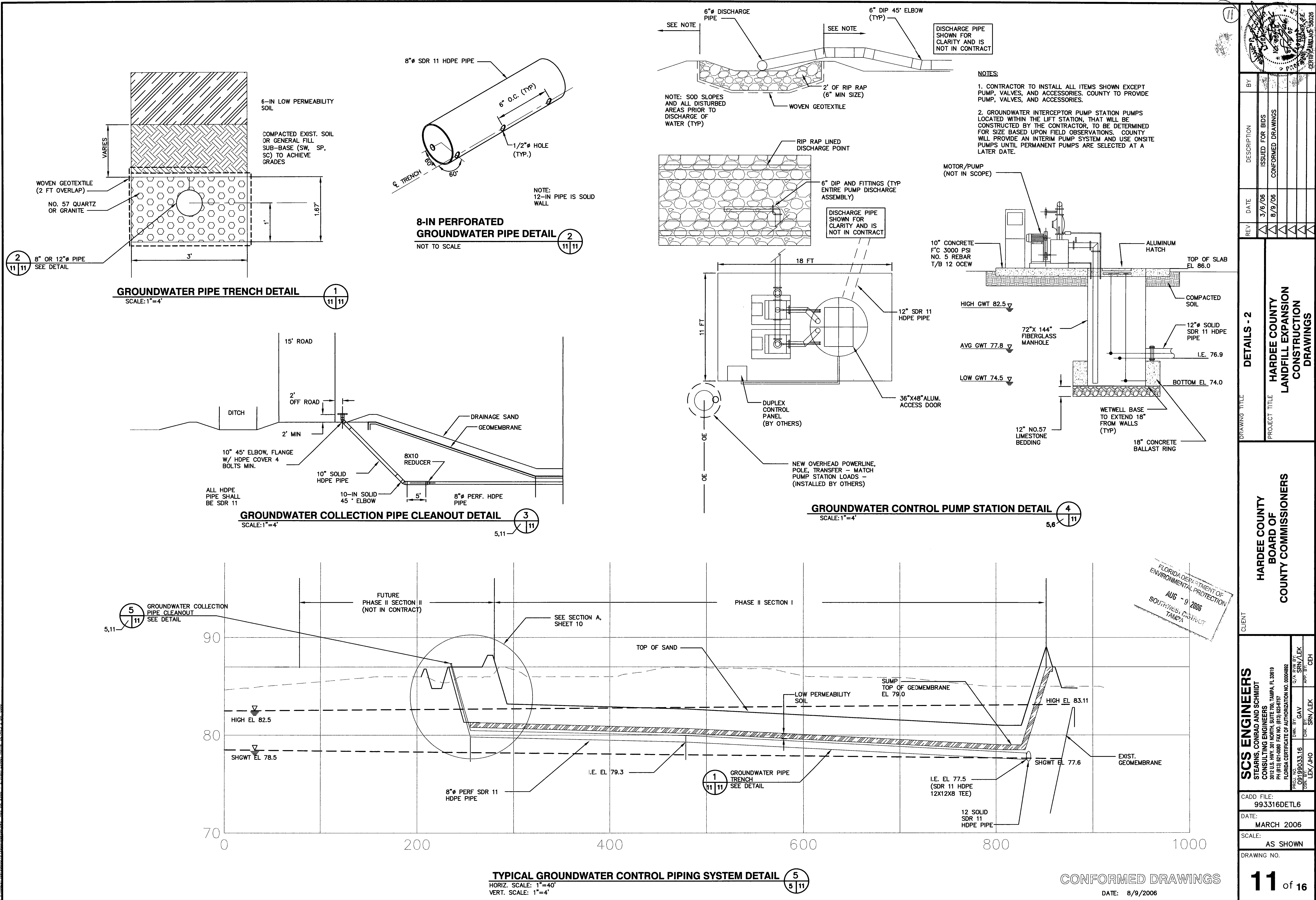
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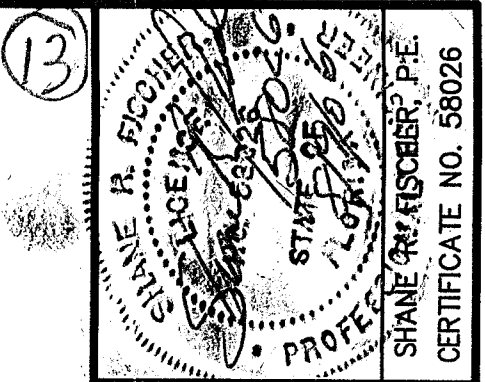
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DATE: 8/9/2006

10 of 16



SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS PH (813) 624-1080 FAX NO. (813) 623-6787 3012 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619 PROJECT NO. 09199033.16 DRAWING NO. 993316DET.L1 DATE: 03/09/06	CLIENT HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS		DRAWING TITLE DETAILS - 3		REV. DATE DESCRIPTION 1 3/6/06 ISSUED FOR BIDS 2 8/9/06 CONFORMED DRAWINGS	CK BY [Signature]	
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SCALE: AS SHOWN DRAWING NO. 12 of 16							

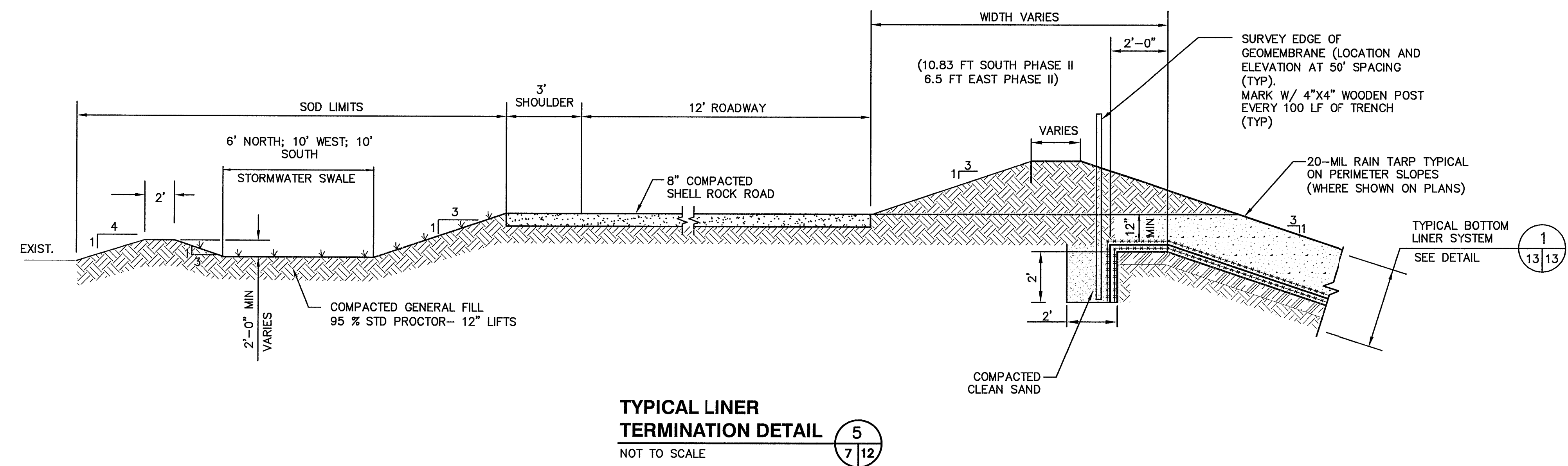
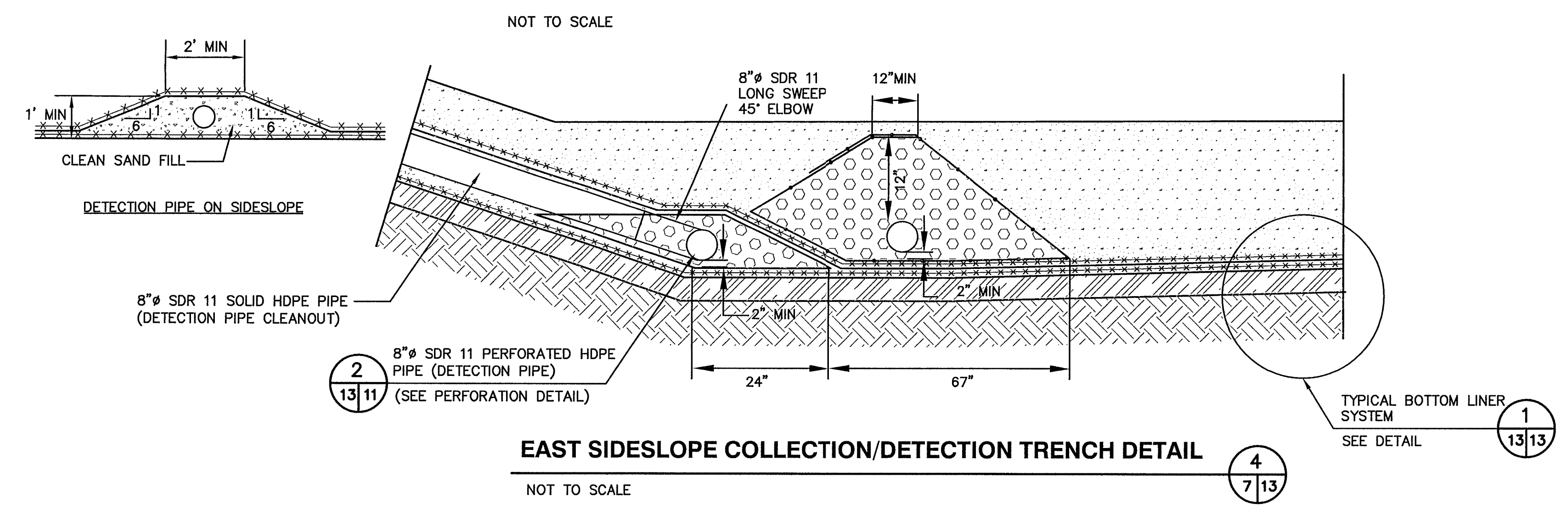
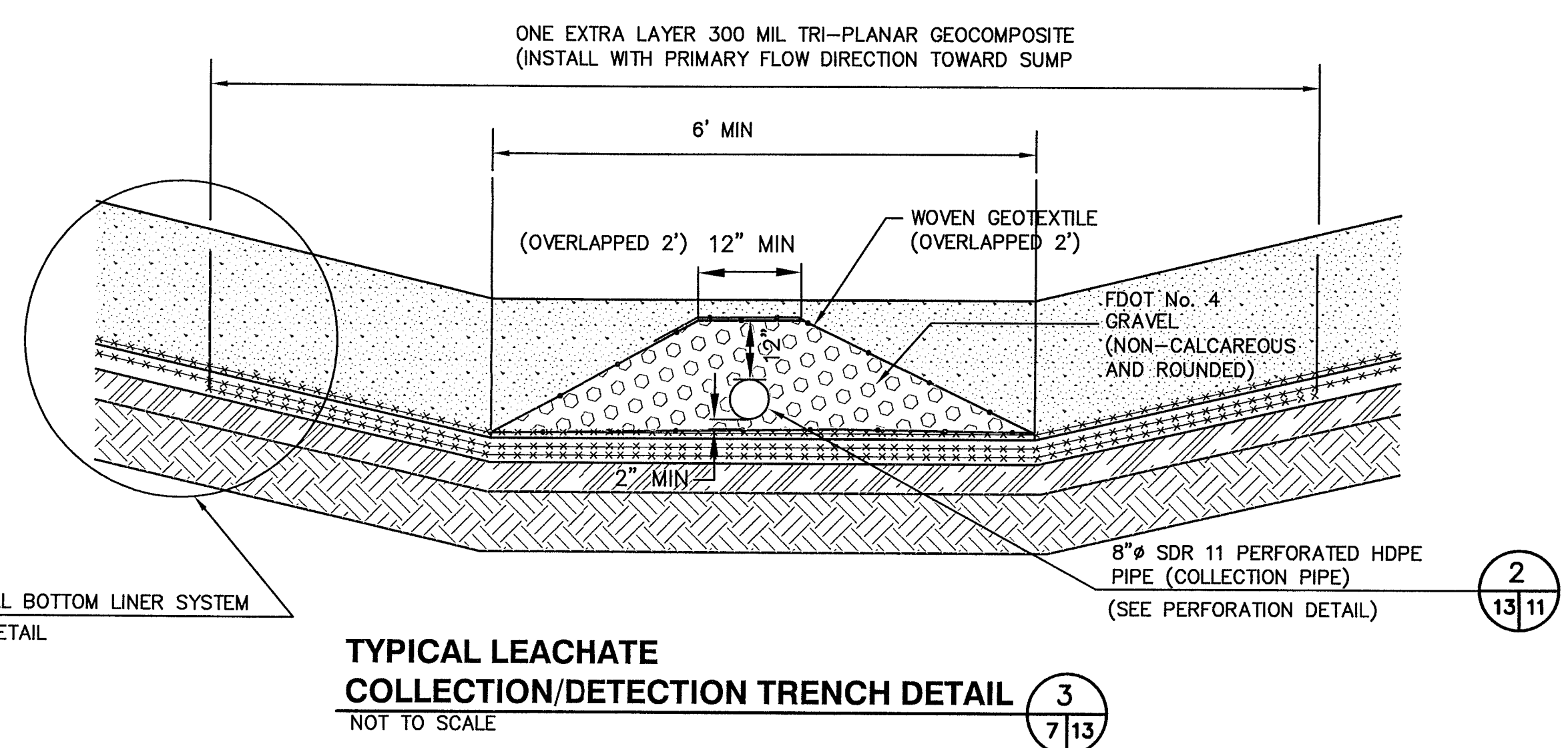
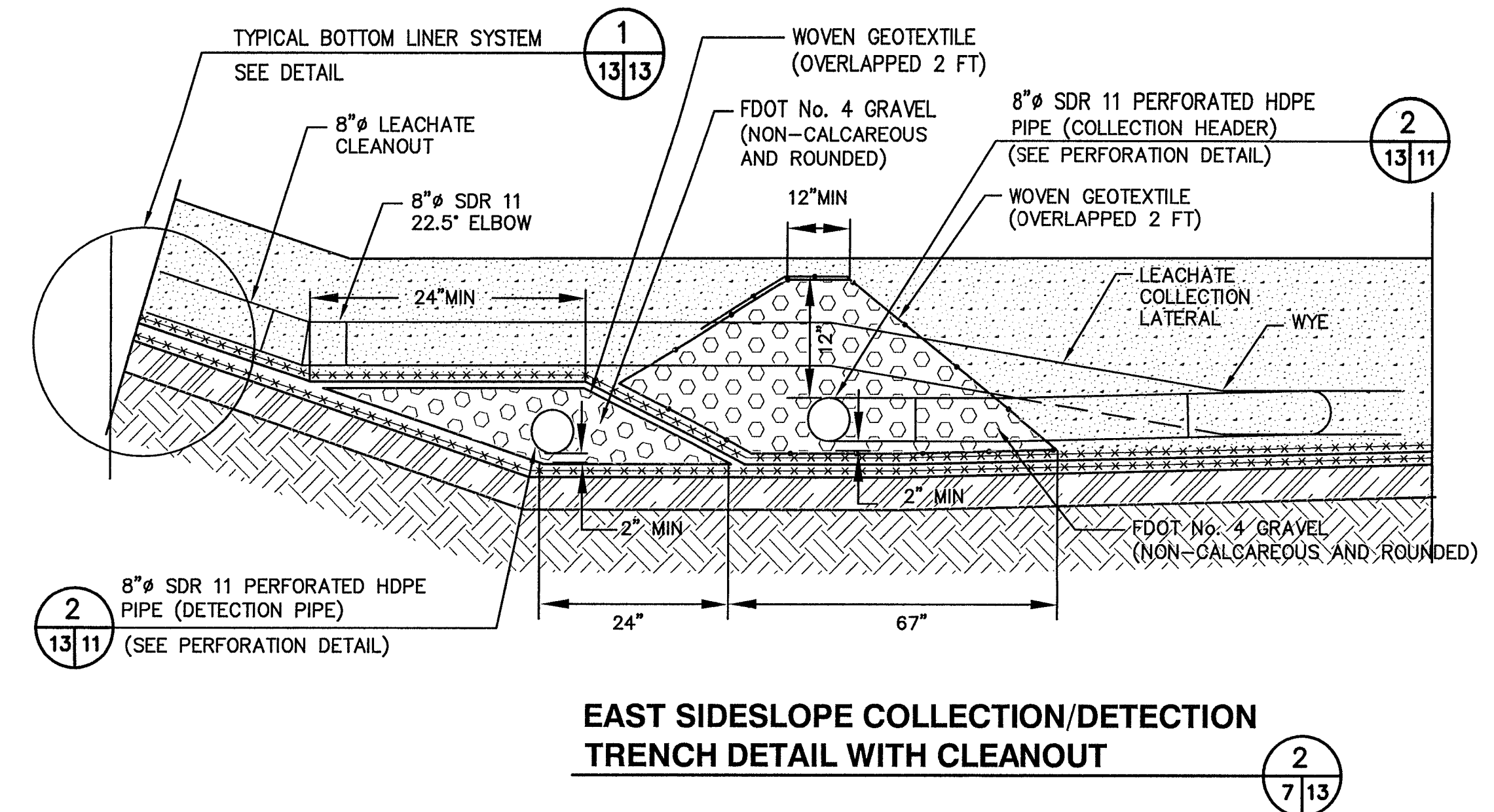
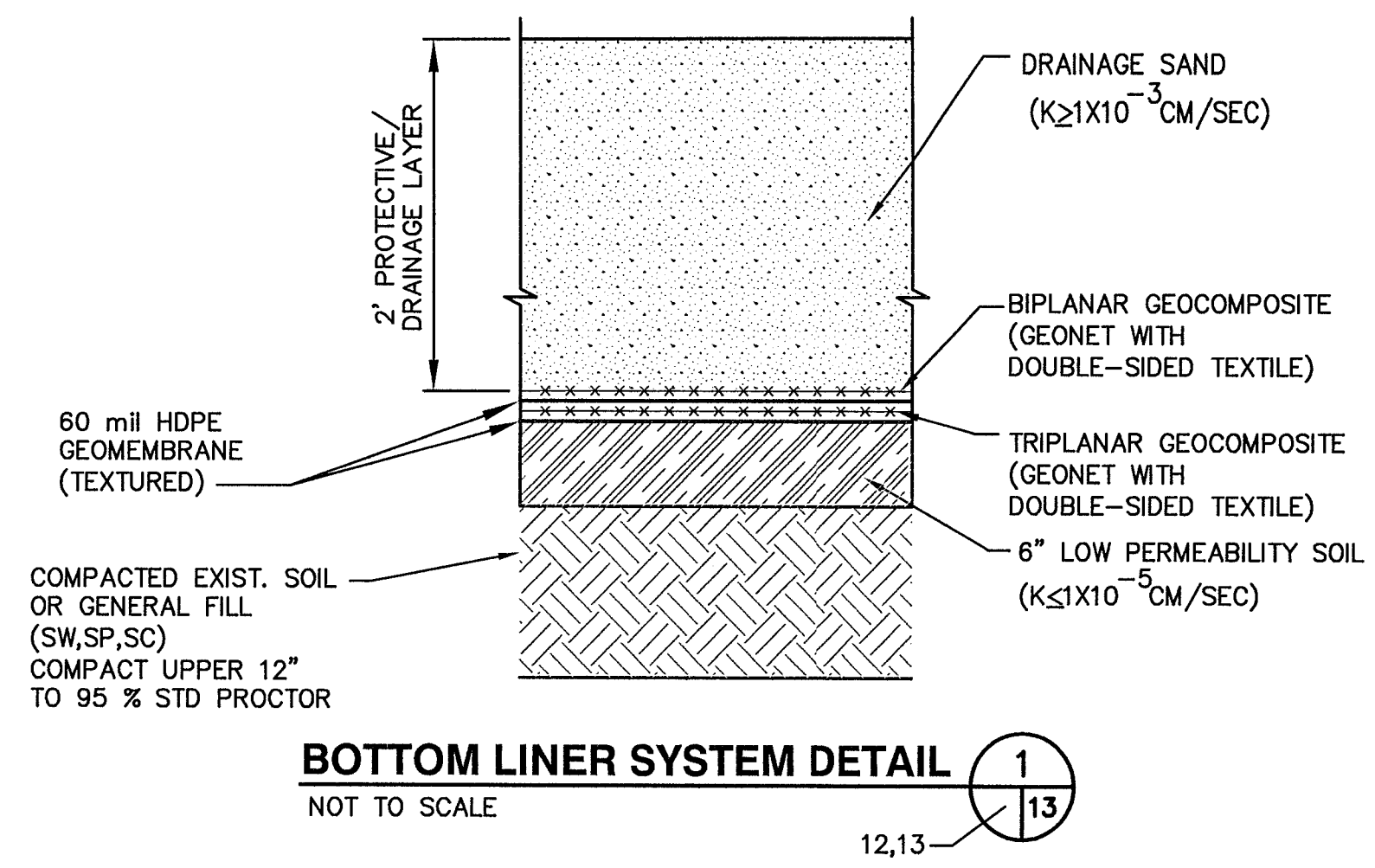


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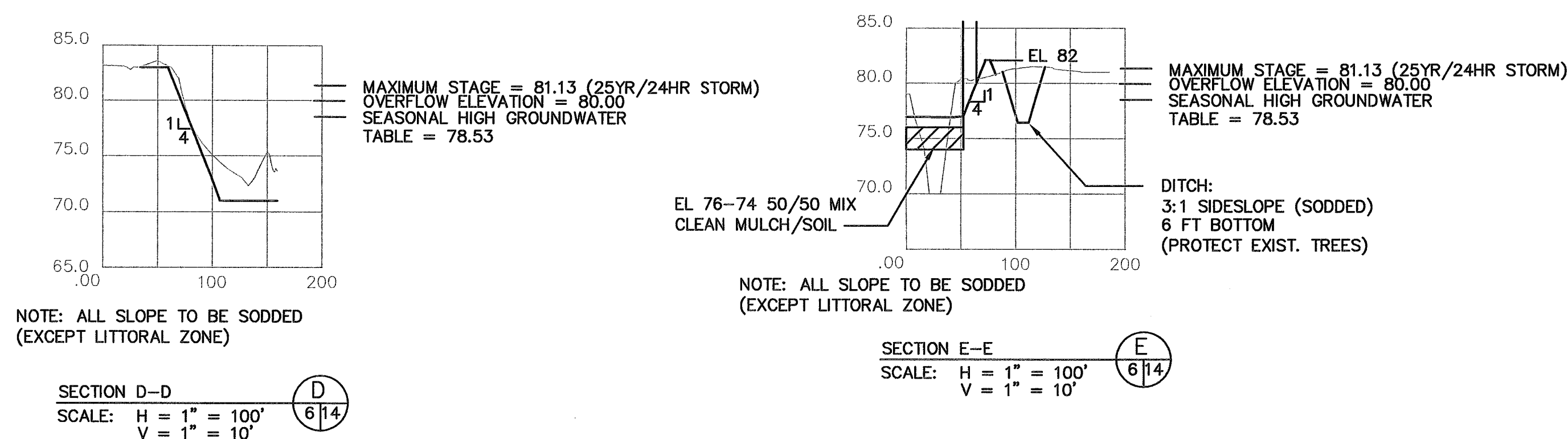
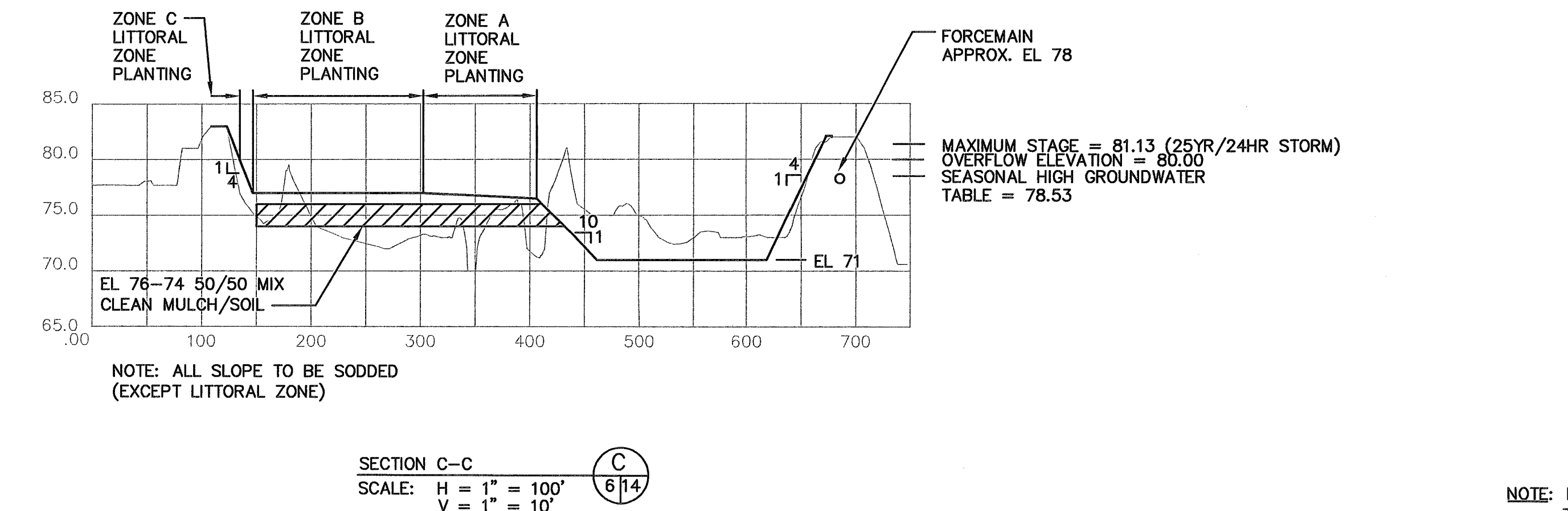
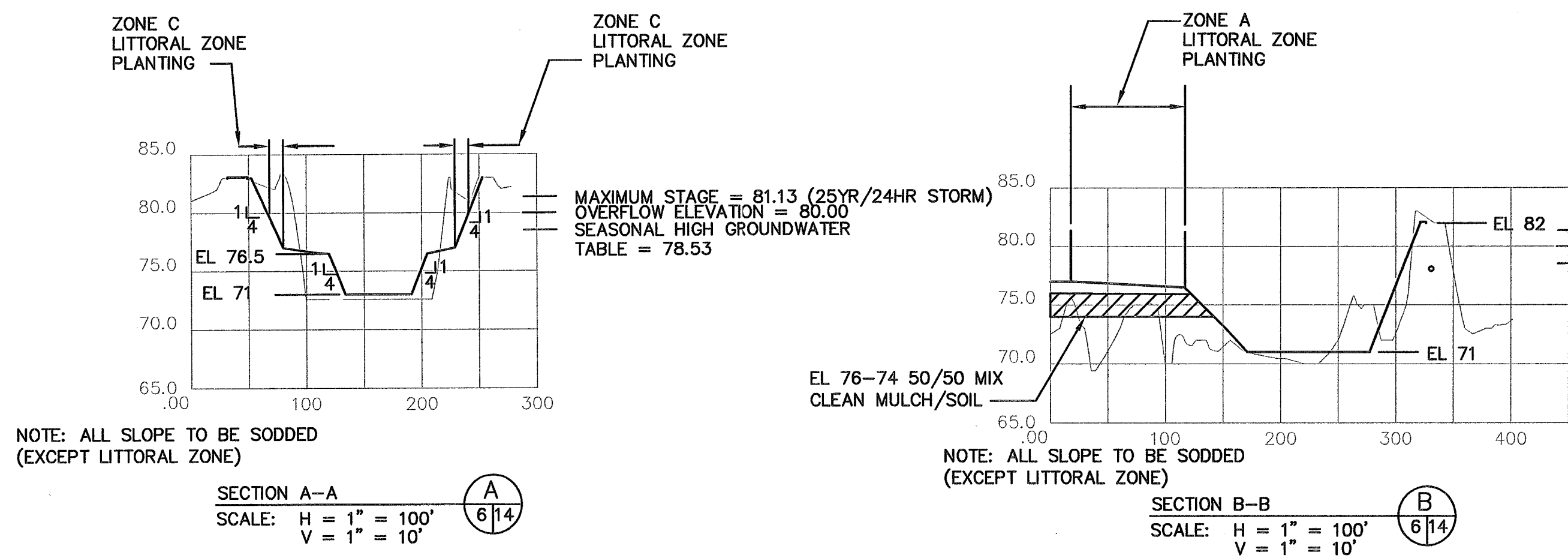
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PROJECT TITLE	HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION DRAWINGS

CLIENT	HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
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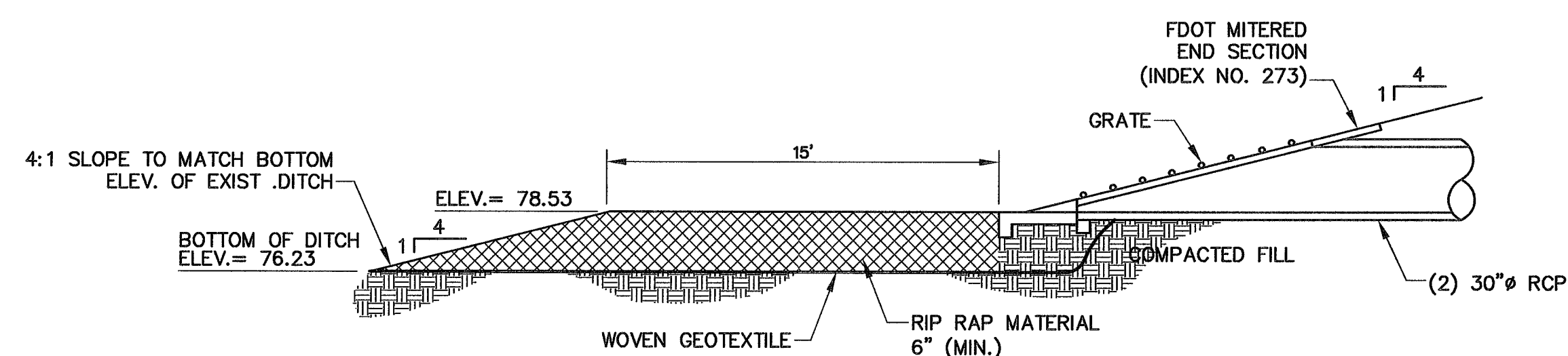
SCS ENGINEERS STEAPINS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3012 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619 PH (813) 621-0880 FAX NO. (813) 623-5757 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882	PROJ. NO. 09199033.16 DSN. LDK/JHO C/A SRN/LEK APP. BY CEF
CADD FILE: 993316DET5	DATE: MARCH 2006
SCALE: NOT TO SCALE	DRAWING NO. 13 of 16



CONFORMED DRAWINGS
DATE: 8/9/2006

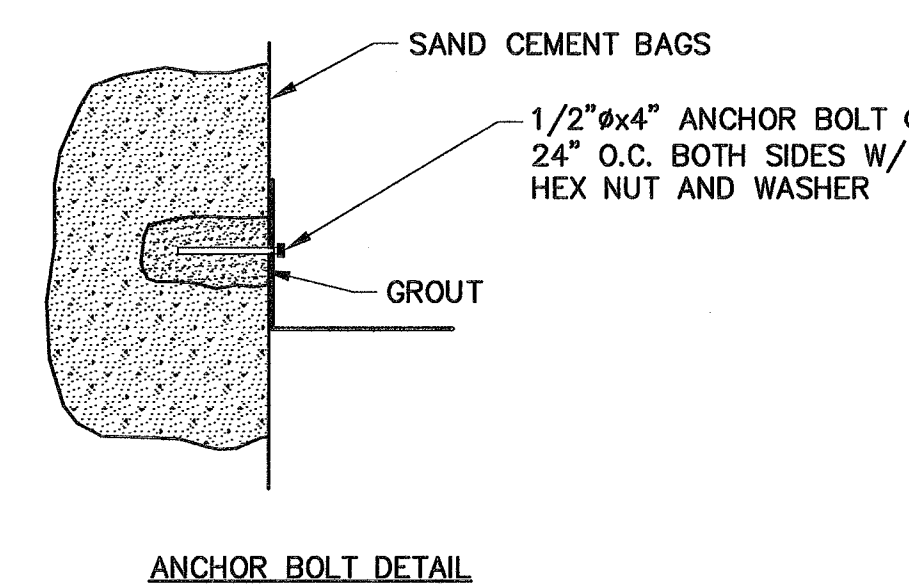


WETLAND CROSS-SECTIONS

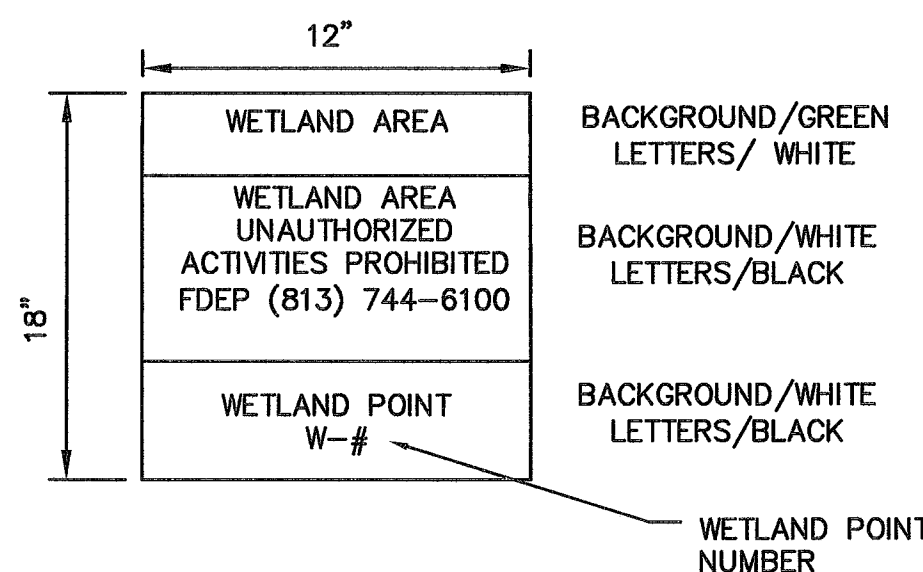
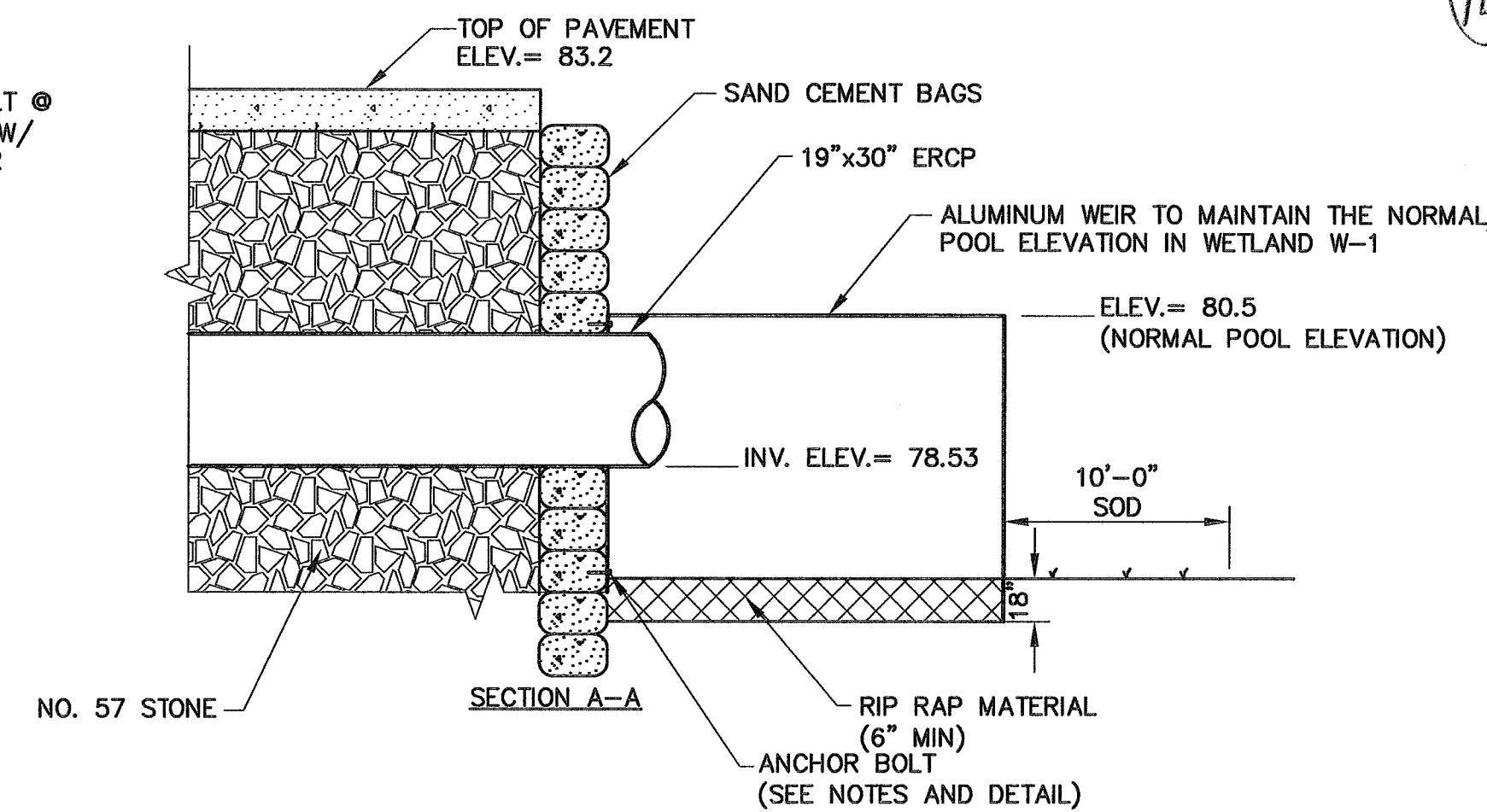


WETLAND DISCHARGE STRUCTURE DETAIL

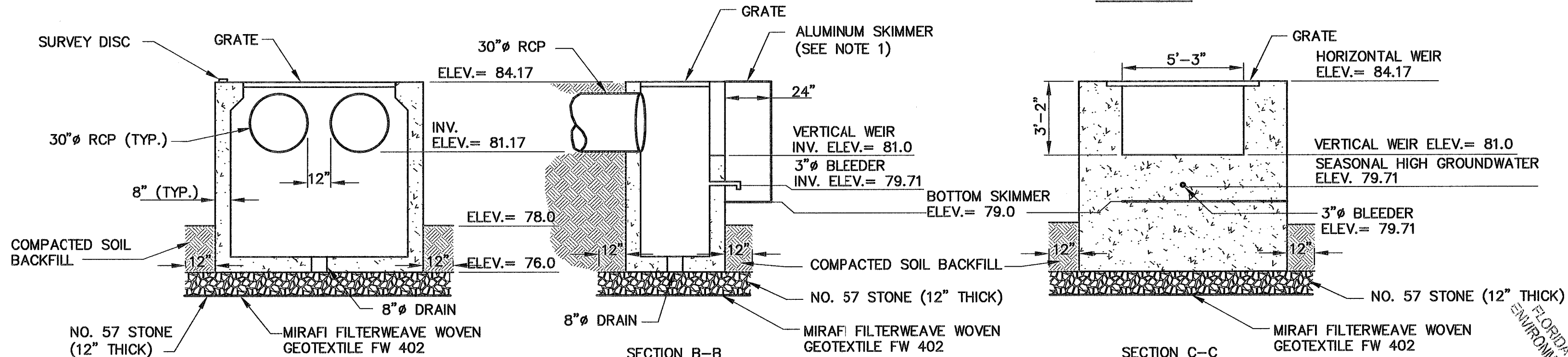
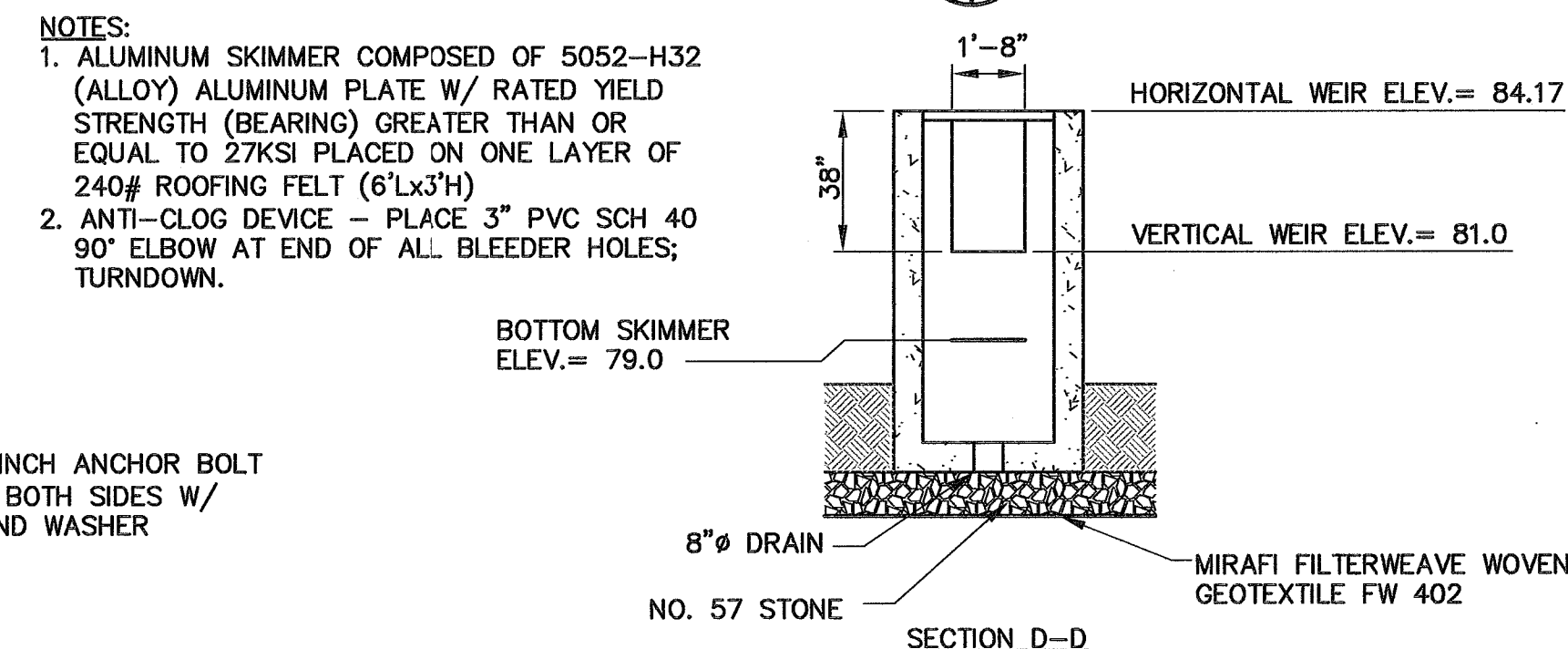
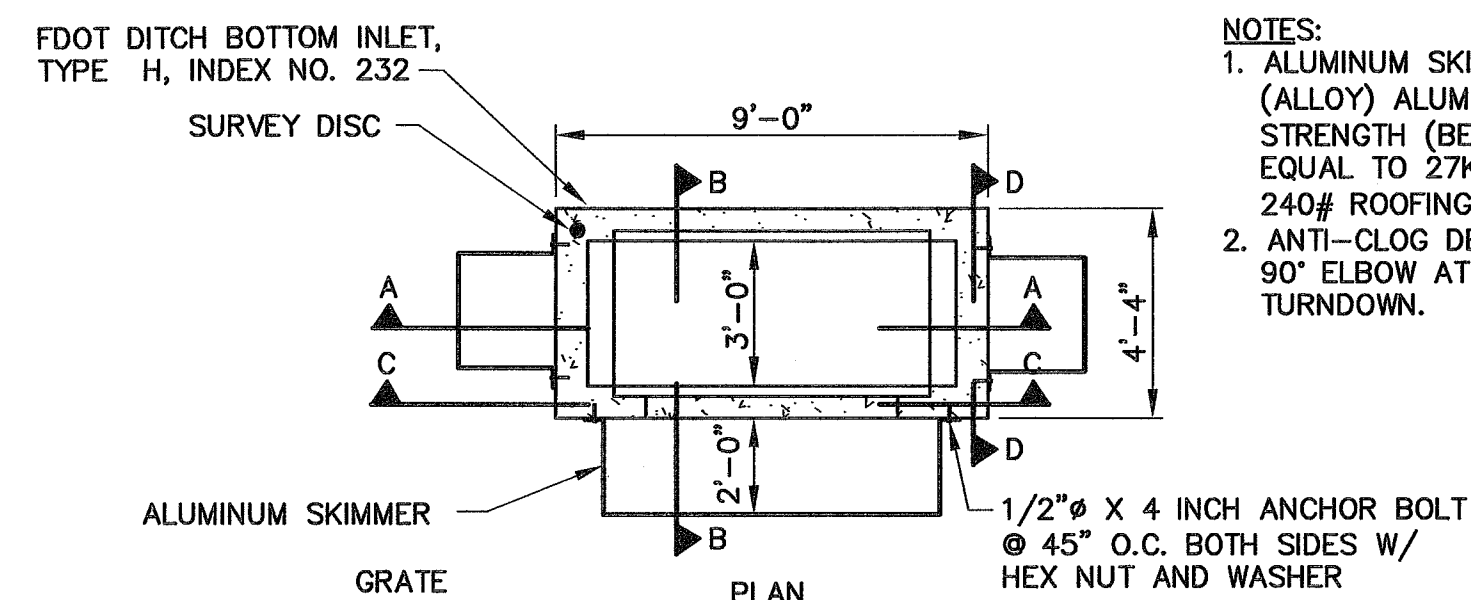
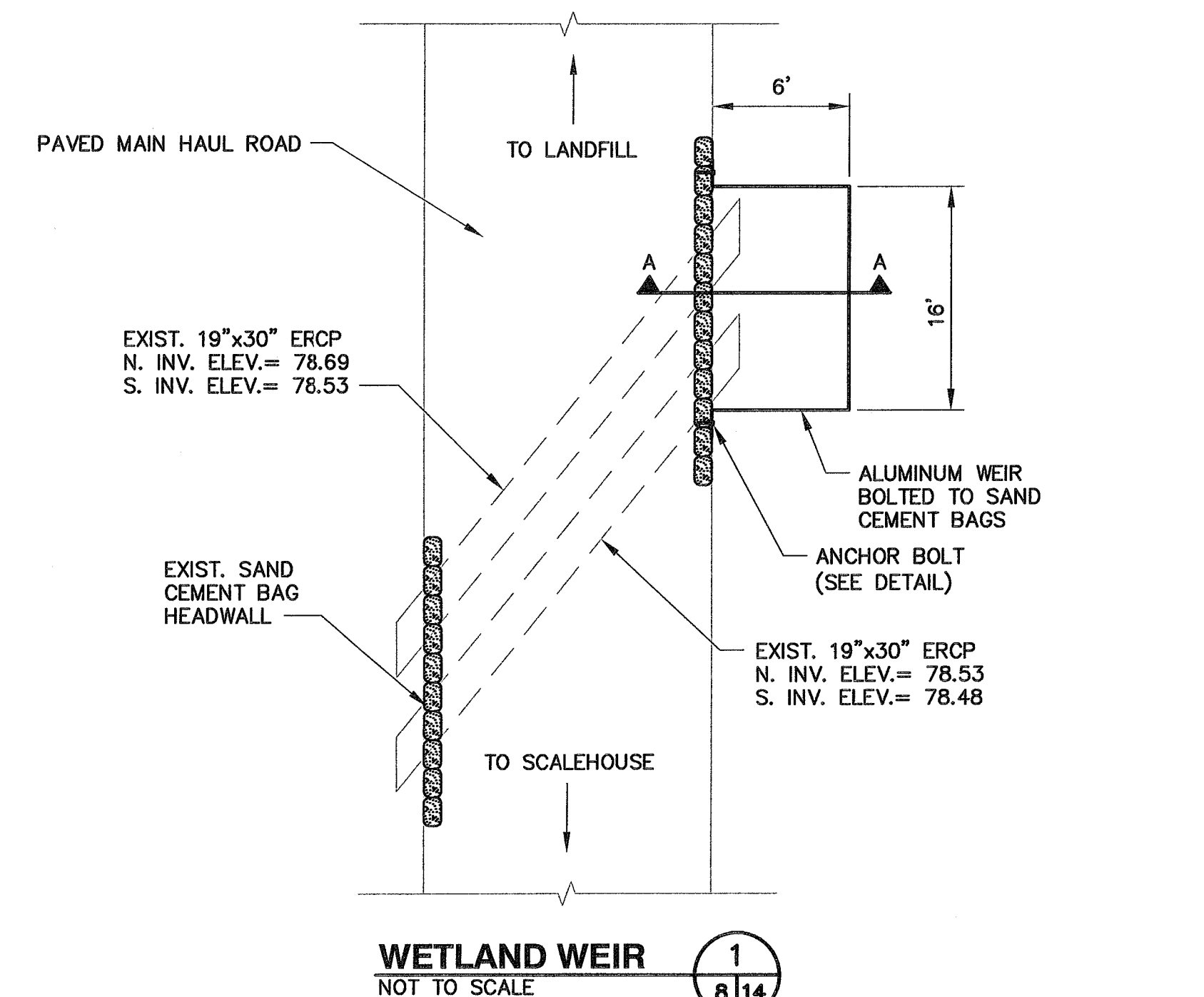
WETLAND DISCHARGE STRUCTURE DETAIL



- NOTES:**
1. ALUMINUM WEIR TO BE BOLTED INTO SAND CEMENT BAGS. SEE ANCHOR BOLT DETAIL.
 2. BOLT HOLES SHALL BE DRILLED TO INSURE THE SAND CEMENT STRUCTURE REMAINS INTACT.



- NOTE:** PERMANENT SIGNS SHALL CONSIST OF 3/4-INCH DIAMETER ALUMINUM POSTS, DRIVEN TO 30-INCHES INTO THE GROUND AND EXTENDING 3 FEET ABOVE THE GROUND WITH A HIGHLY VISIBLE ALUMINUM SIGN (12"x18") BOLTED TO THE POST. POST SIGNS AT THE POINTS IDENTIFIED ON THE PLANS. SEE SHEET 4 FOR SIGN LOCATIONS.



DROP STRUCTURE SCHEDULE										
Location	Discharge Pipe Invert	Discharge Pipe Diameter (inches)	No. of Discharge Pipes	Horizontal Weir Invert	Horizontal Weir Dimensions	Vertical Weir Invert	Vertical Weir Dimensions	No. of Vertical Weirs	Bleeder Elevation	No. of Bleeders
Primary Pond	81.17	30	2	84.17	79"x36"	81	63"x38"	1	79.71	3
Borrow Pit	78.53	30	2	81.00	79"x36"	80	63"x12"	1	78.53	4

THE DROP STRUCTURES ARE FDOT DITCH BOTTOM INLETS, TYPE H, INDEX NO. 232

CONFORMED DRAWINGS

DATE: 8/9/2006

DETAILS - 5

HARDEE COUNTY
LANDFILL EXPANSION
CONSTRUCTION PERMIT

CLIENT

HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

CADD FILE:

993316XSEC

DATE:

MARCH 2006

DRAWING NO.

AS SHOWN

SCALE:

14 of 16

PROJECT TITLE

HARDEE COUNTY
LANDFILL EXPANSION
CONSTRUCTION PERMIT

PROJECT TITLE

HARDEE COUNTY
LANDFILL EXPANSION
CONSTRUCTION PERMIT

DATE

3/6/06
8/9/06

DESCRIPTION

ISSUED FOR BIDS
CONFORMED DRAWINGS

BY

NO. 57 STONE
19"x30" ERCP
ALUMINUM WEIR TO MAINTAIN THE NORMAL POOL ELEVATION IN WETLAND W-1
ELEV.= 80.5 (NORMAL POOL ELEVATION)
INV. ELEV.= 78.53
10'-0" SOD
RIP RAP MATERIAL (6" MIN)
ANCHOR BOLT (SEE NOTES AND DETAIL)

DATE

3/6/06
8/9/06

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ANCHOR BOLT (SEE NOTES AND DETAIL)

DATE

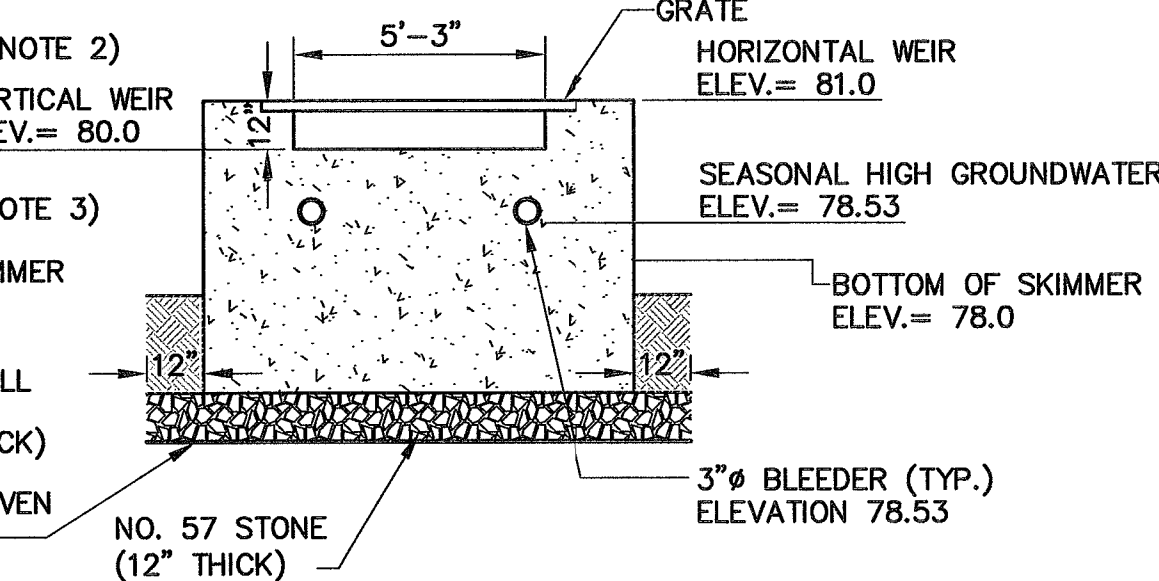
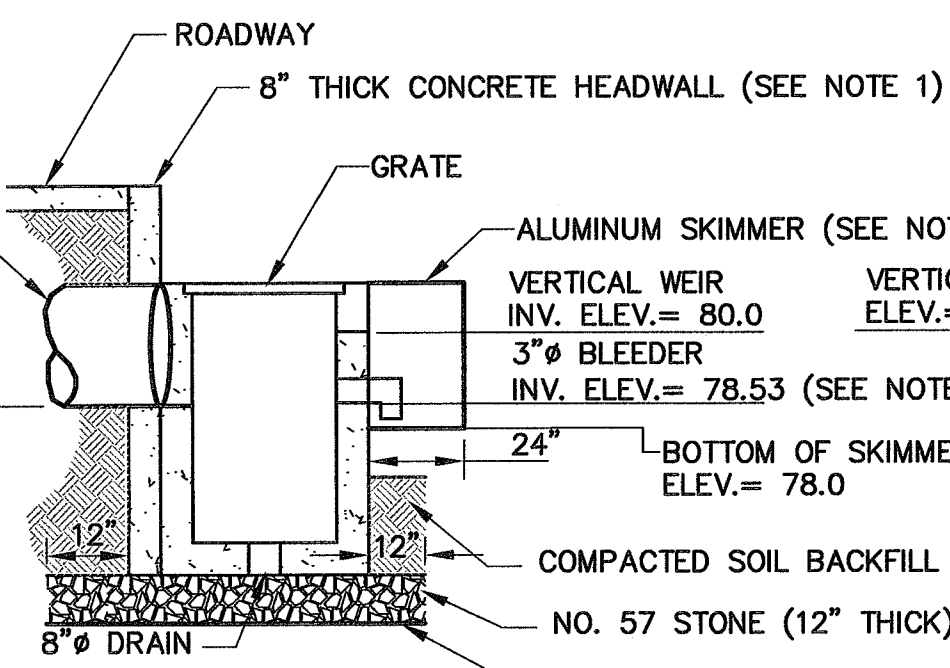
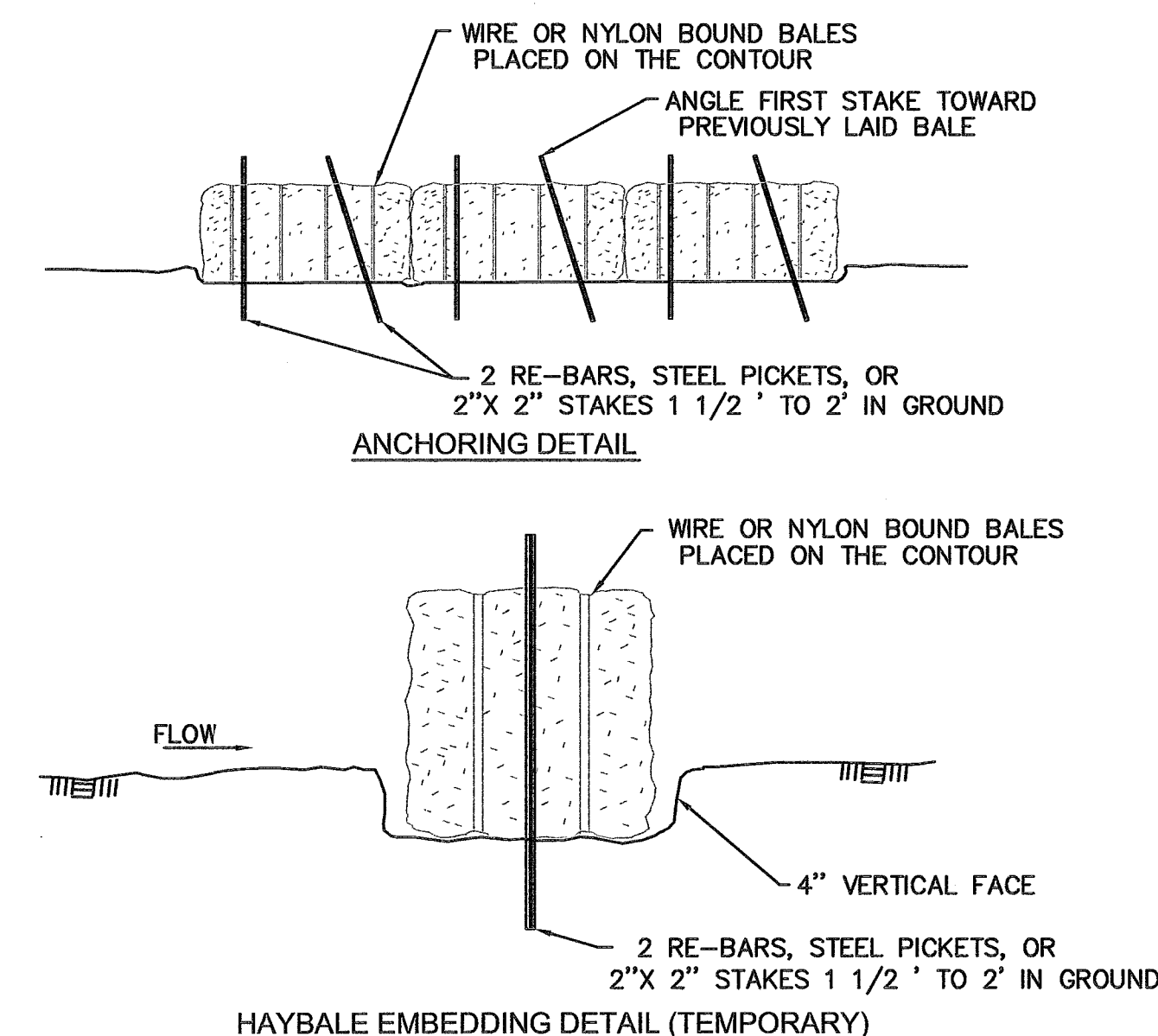
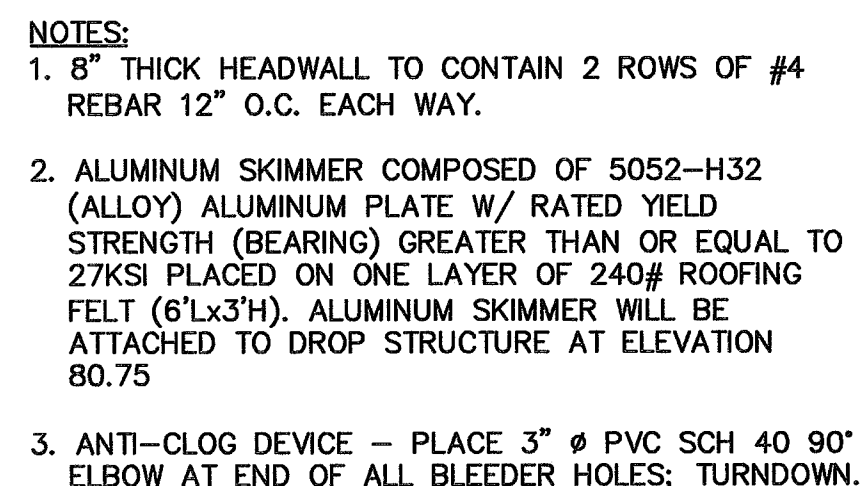
3/6/06
8/9/06

DESCRIPTION

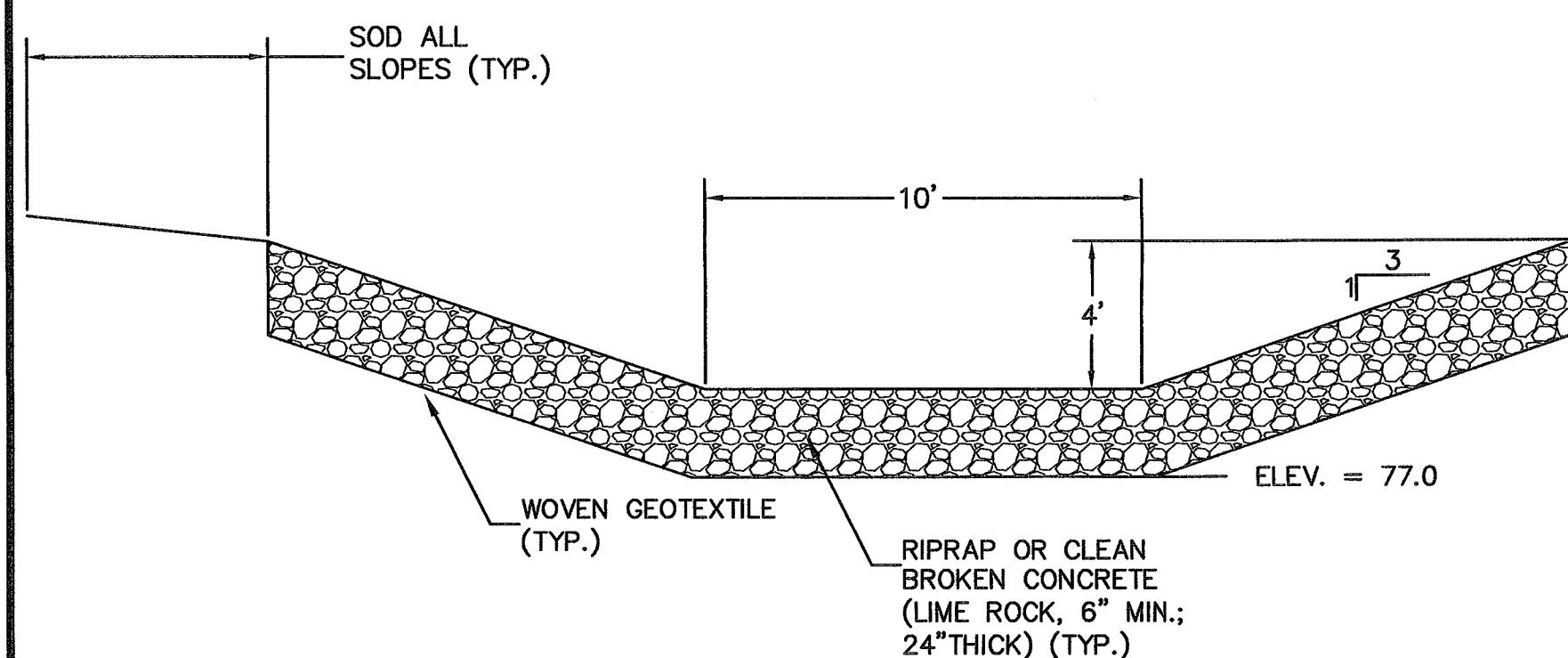
ISSUED FOR BIDS
CONFORMED DRAWINGS

BY

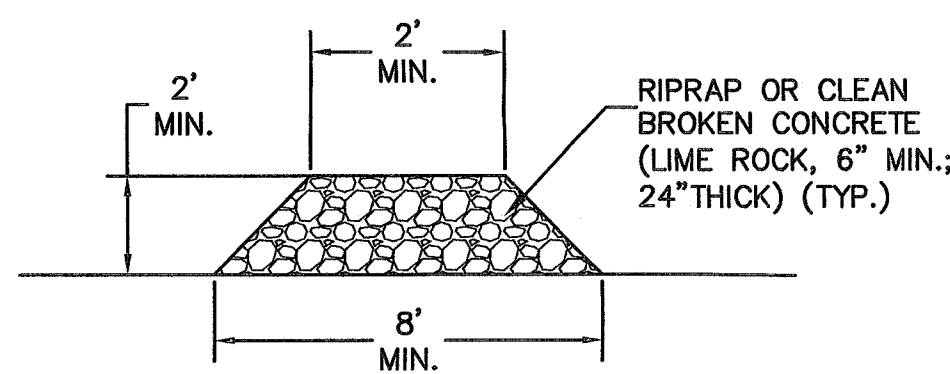
NO. 57 STONE
19"x30" ERCP
ALUMINUM WEIR TO MAINTAIN THE NORMAL POOL ELEVATION IN WETLAND W-1
ELEV.= 80.5 (NORMAL POOL ELEVATION)
INV. ELEV.= 78.53
10'-0" SOD
RIP RAP MATERIAL (6" MIN)
ANCHOR BOLT (SEE NOTES AND DETAIL)



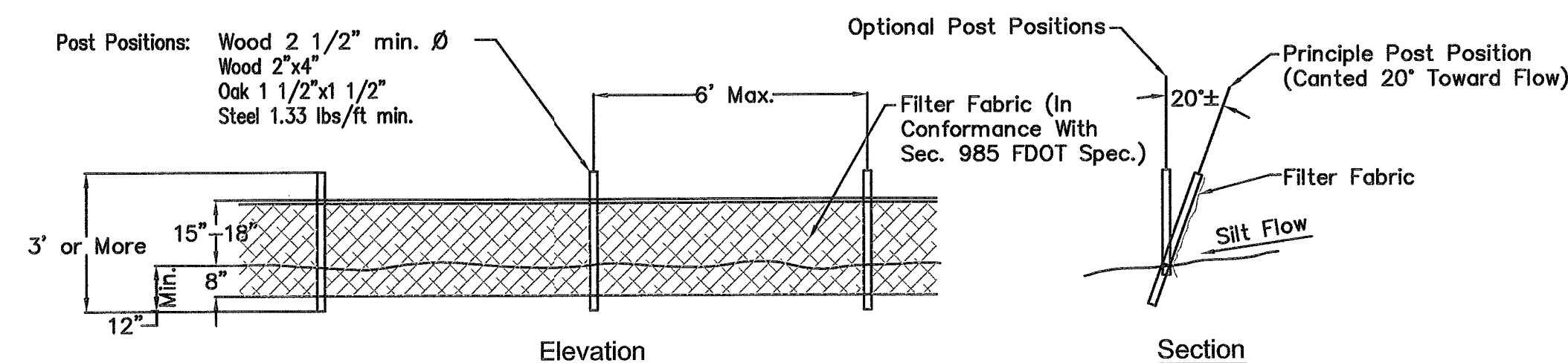
OFF-SITE DISCHARGE STRUCTURE DETAIL 1
NOT TO SCALE 6 15



RIPRAP CHANNEL DETAIL 3
NOT TO SCALE 6 15

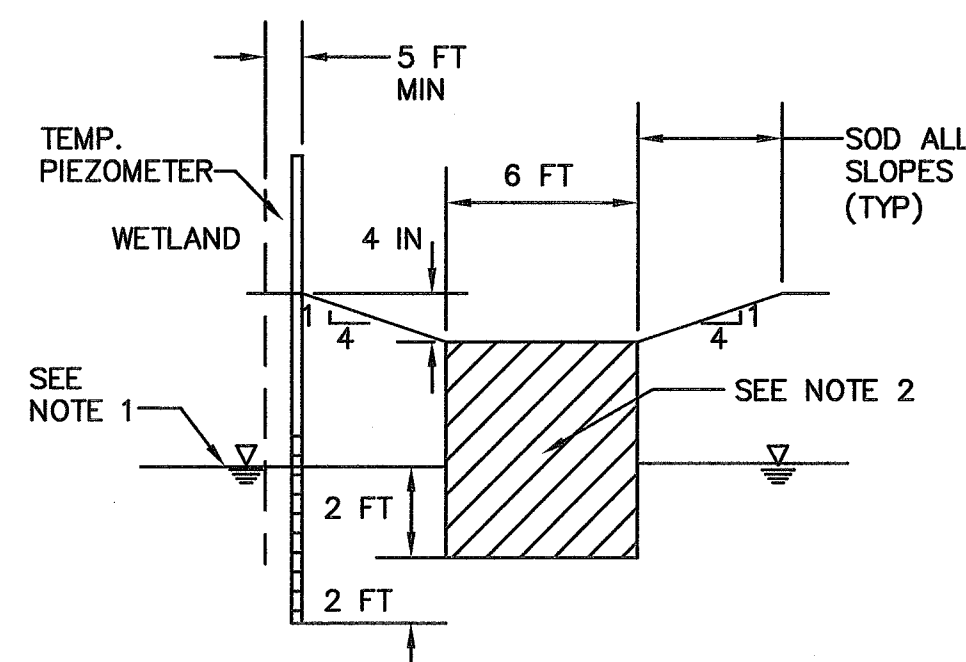


ROCK CHECKDAM DETAIL 4
NOT TO SCALE 6 | 15



Type III Silt Fence (TEMPORARY)

REPLACE UNTIL SOD ESTABLISHED (2 MONTHS MIN AFTER WORK COMPLETED)



NOTES:

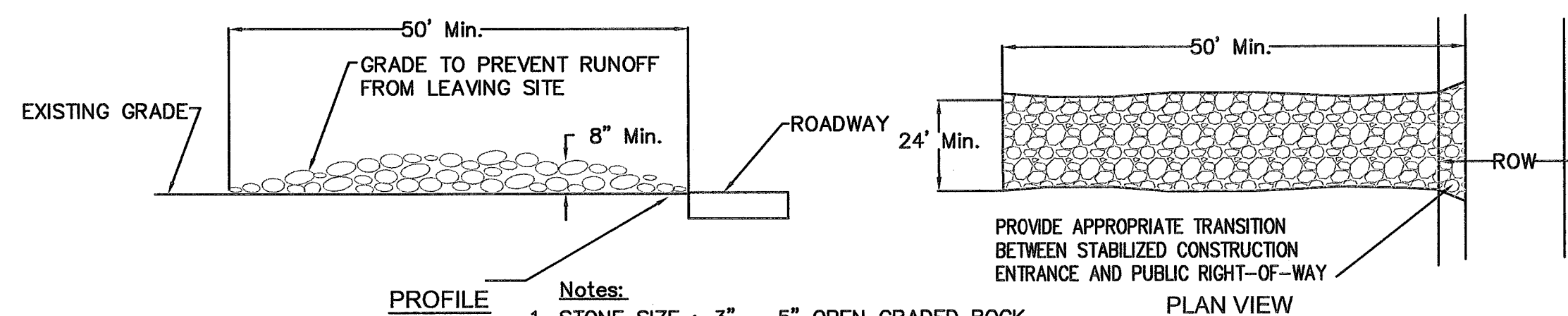
1) MONITOR WATER LEVELS (DAILY) DURING DEWATERING ACTIVITIES USING TEMPORARY PIEZOMETERS; WATER LEVELS NOT TO VARY FROM PRE-CONSTRUCTION LEVELS; IF LEVELS VARY MORE THAN 12 INCHES RECHARGE SWALE UNTIL LEVELS RISE.

2) BACKFILL W/CLEAN FILL UPON COMPLETION OF DEWATERING ACTIVITIES.

GRASS RECHARGE /TREATMENT
SWALE DETAIL

NOT TO SCALE

5
15

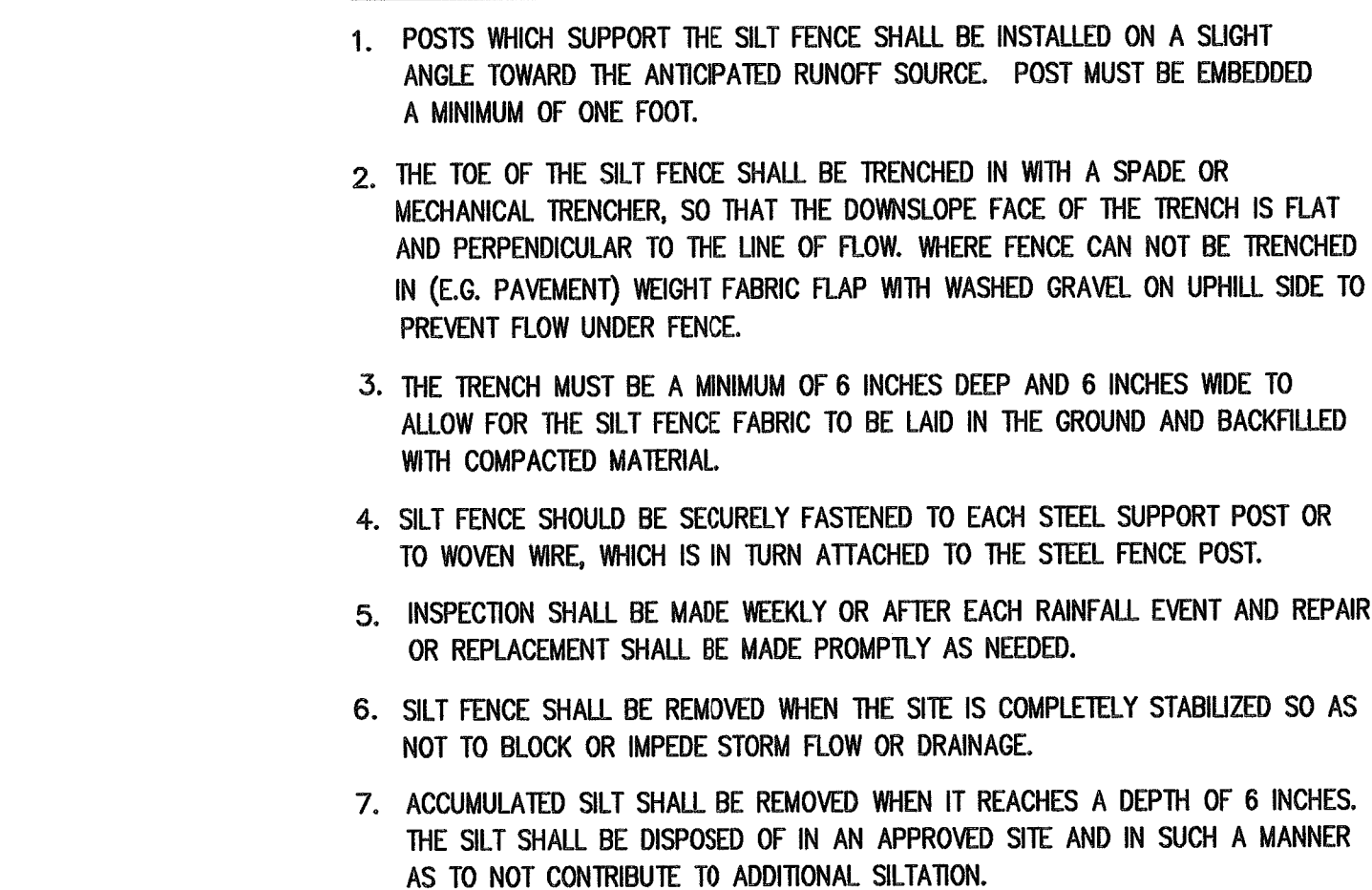


Notes: ENTRANCE AND PUBLIC RIGHT-OF-WAY

PLAN VIEW

1. STONE SIZE : 3" – 5" OPEN GRADED ROCK
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50 FEET.
3. THICKNESS : NOT LESS THAN 8 INCHES.
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/ EGRESS.
5. WASHING: WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE CONDITIONS DEMAND, AND REPAIR AND CLEAN OUT OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

TYPICAL CONSTRUCTION ENTRANCE 6
NOT TO SCALE 9 | 15

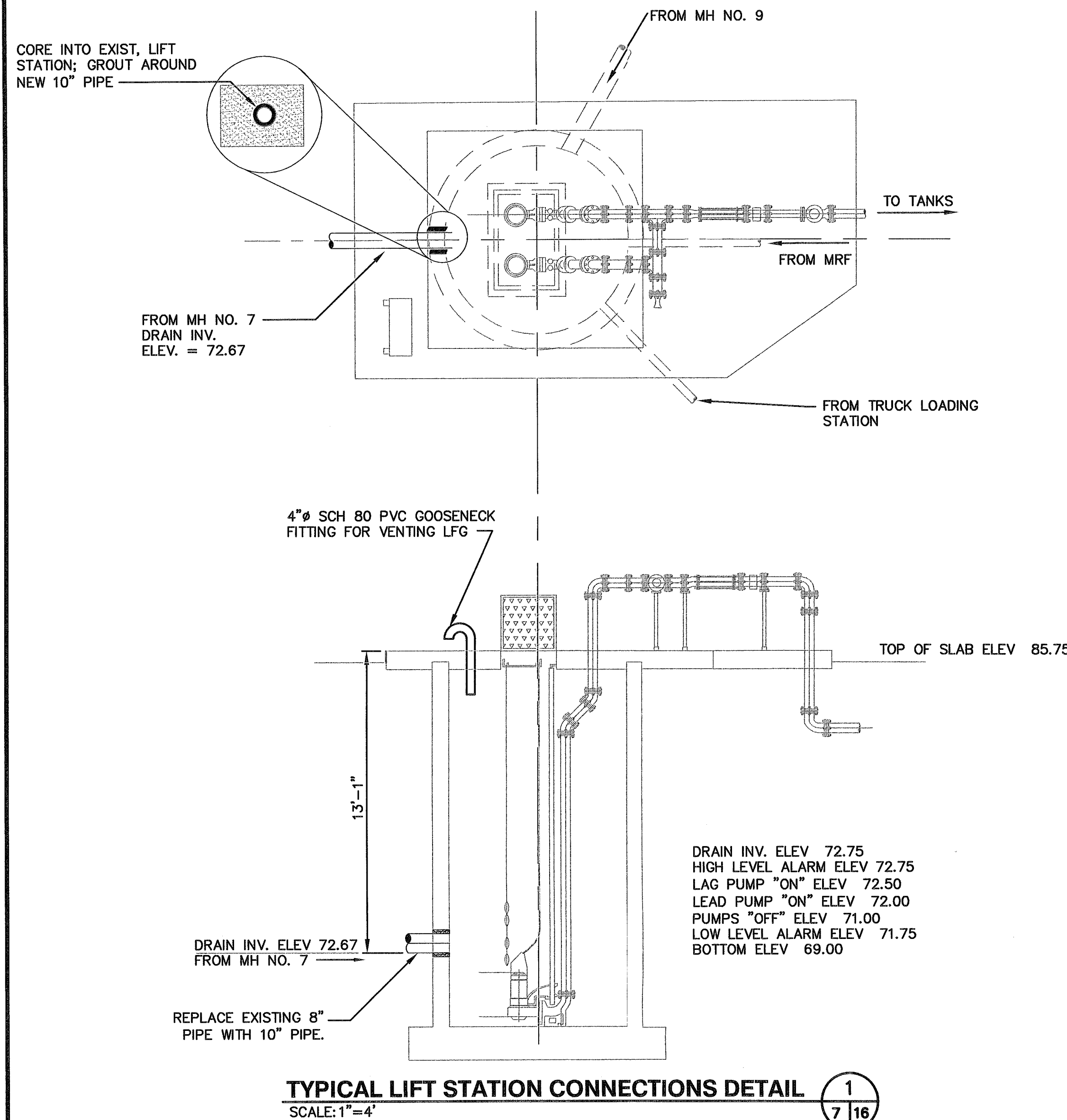


SILT FENCE 7
NOT TO SCALE 9 | 15

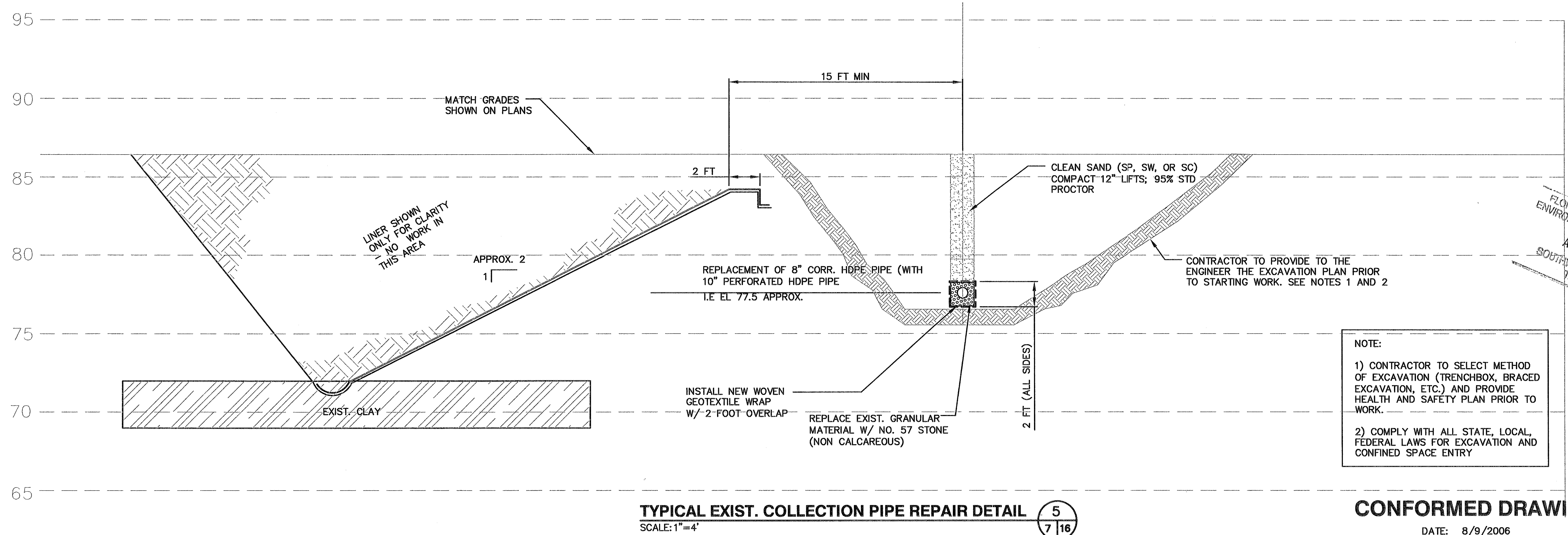
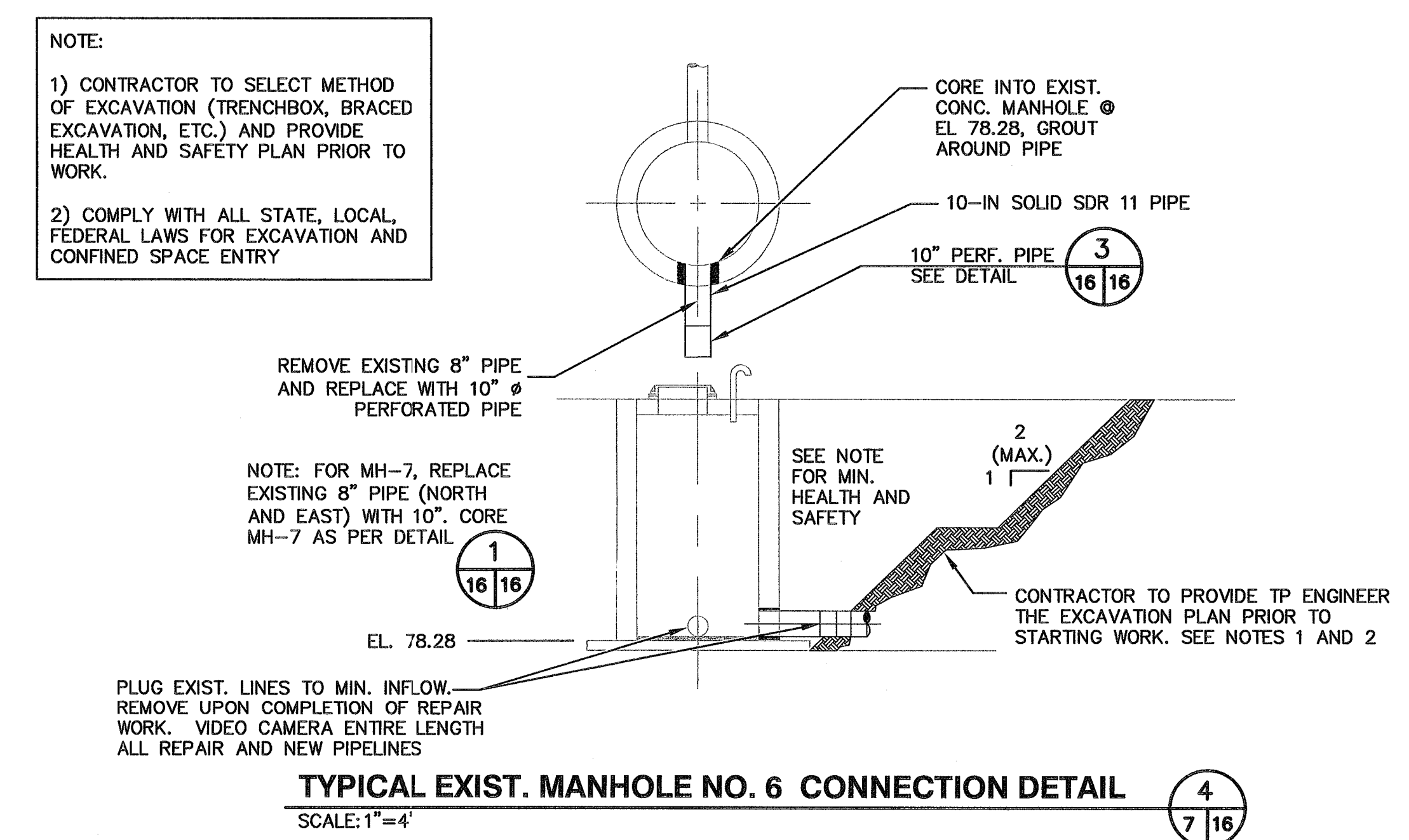
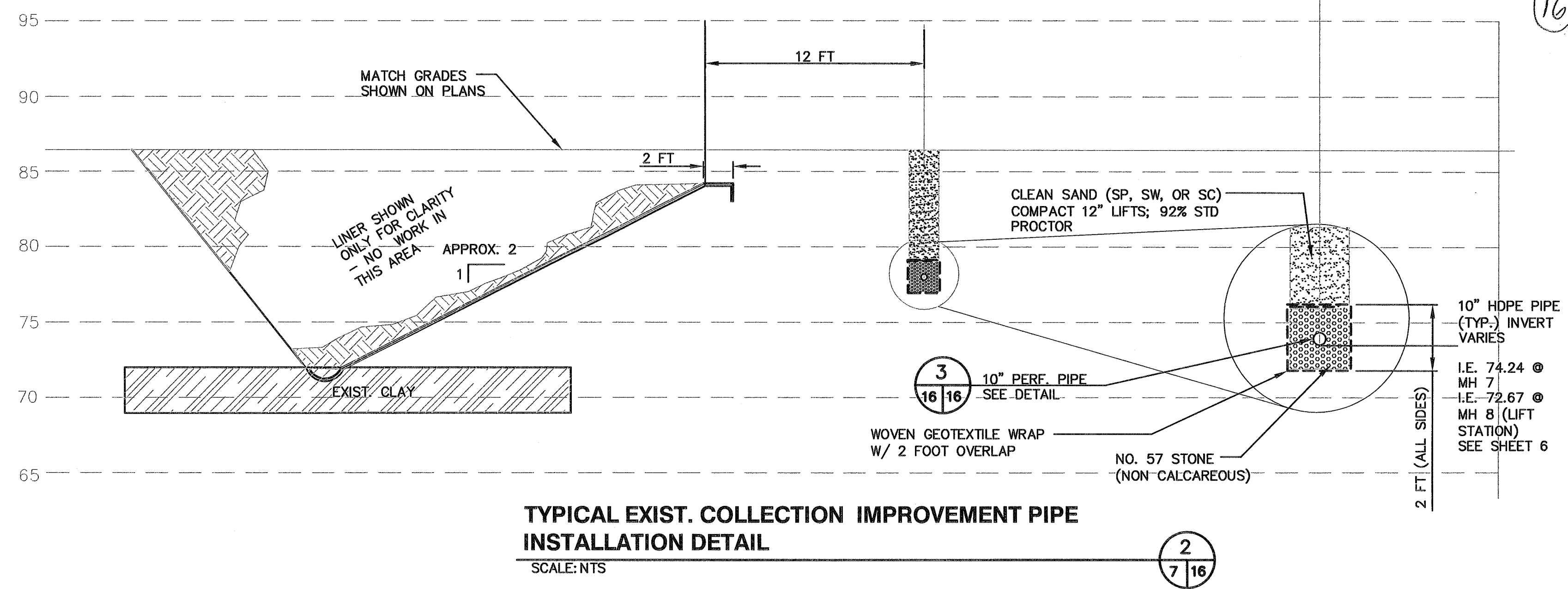
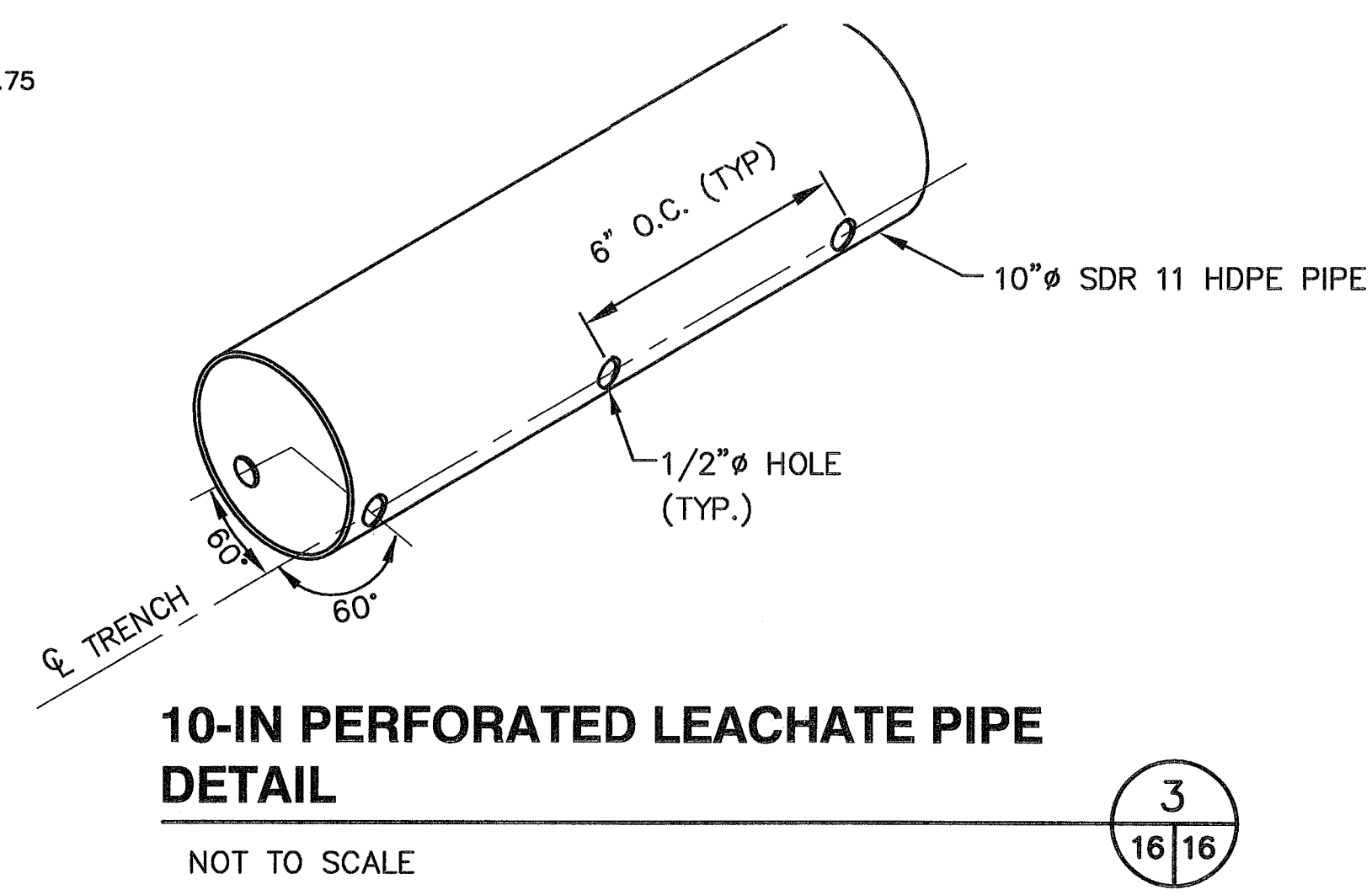
CONFORMED DRAWINGS

DATE: 8/9/2006

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3012 U.S. HWY. 301 NORTH, SUITE 200, TAMPA, FL 33619 PH (813) 961-6666 FAX (813) 961-6667 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004862	CLIENT HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS		DRAWING TITLE DETAILS - 5	REV DATE DESCRIPTION BY
	PROJECT TITLE HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION DRAWINGS			
CADD FILE: 993316DET.L3				
DATE: MARCH 2006				
SCALE: AS SHOWN				
DRAWING NO.				
15 of 16				



- NOTES:
- 1) CONTRACTOR TO PROVIDE HEALTH AND SAFETY PLAN PRIOR TO WORK.
 - 2) COMPLY WITH ALL STATE, LOCAL, FEDERAL LAWS FOR EXCAVATION AND CONFINED SPACE ENTRY.
 - 3) LIFT STATION AND PUMP DESIGN BY OTHERS.



- NOTE:
- 1) CONTRACTOR TO SELECT METHOD OF EXCAVATION (TRENCHBOX, BRACED EXCAVATION, ETC.) AND PROVIDE HEALTH AND SAFETY PLAN PRIOR TO WORK.
 - 2) COMPLY WITH ALL STATE, LOCAL, FEDERAL LAWS FOR EXCAVATION AND CONFINED SPACE ENTRY

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

DETAILS - 6

HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION	BY
1	3/6/06	ISSUED FOR BIDS	
2	8/9/06	CONFORMED DRAWINGS	

CLIENT

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3013 U.S. HWY. 901 NORTH, SUITE 200, TAMPA, FL 33619
PH (813) 821-0090 FAX (813) 824-3757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882

DATE

MARCH 2006

SCALE

AS SHOWN

DRAWING NO. **16** of 16

DATE: 8/9/2006