



HDR Engineering, Inc. 5426 Bay Center Drive Suite 400 Tampa, FL 33609-3444 HDR CA# 4213

> Dept. of Environment Protection

> > MAR 09 2012

Southwest District

DRAWING INDEX

01 COVER SHEET

G-02 GENERAL NOTES AND LEGEND

C-01 OVERALL SITE PLAN

C-02 EXISTING CONDITIONS

C-03 SECTIONS 7, 8, AND 9 GCCS EXPANSION-SEQUENCE 1 (FILL SEQUENCE 13)

C-04 SECTIONS 7, 8, AND 9 GCCS EXPANSION-SEQUENCE 2 (FILL SEQUENCE 16)

C-05 SECTIONS 7, 8, AND 9 GCCS EXPANSION-SEQUENCE 3 (FILL SEQUENCE 18)

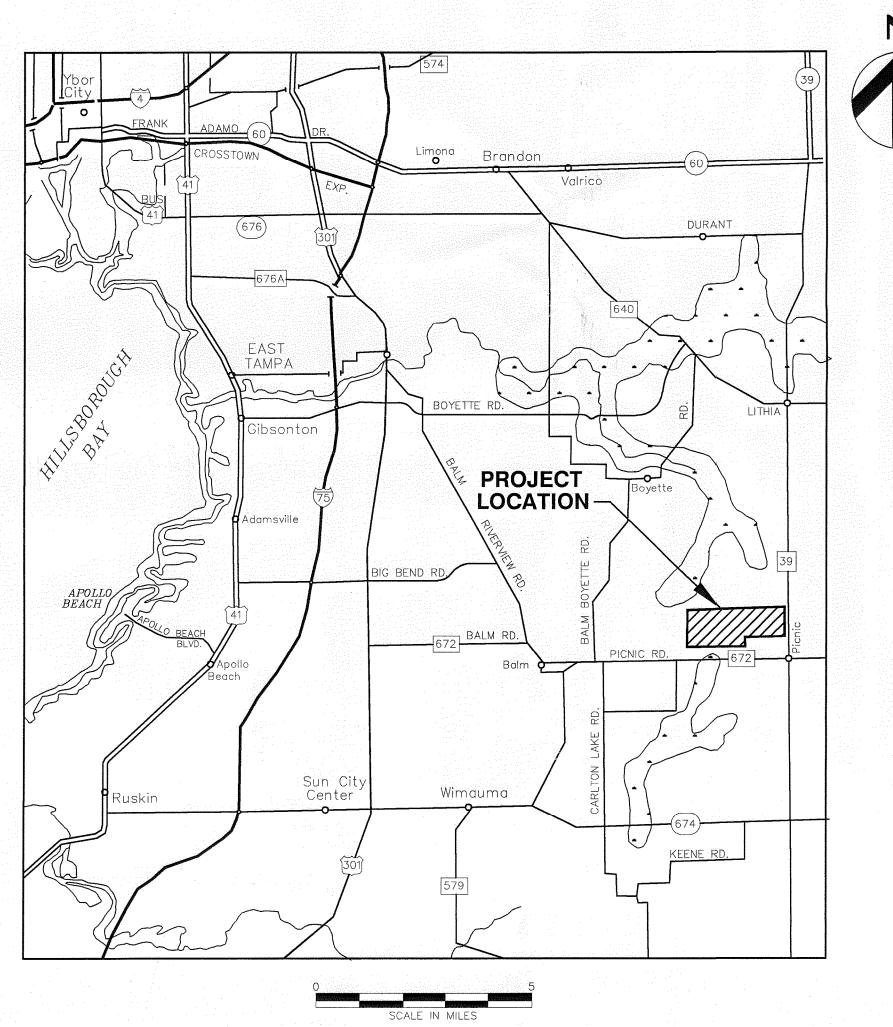
C-06 EXTRACTION WELL DETAILS AND WELL SCHEDULE

C-07 HORIZONTAL COLLECTOR DETAILS

C-08 WELLHEAD AND CONFIGURATION DETAILS

C-09 WELL HEAD AND CONFIGURATION DETAILS

C-10 GENERAL DETAILS



SITE VICINITY MAP

Drawings For

SECTIONS 7, 8, AND 9 LANDFILL GAS COLLECTION AND CONTROL SYSTEM EXPANSION

SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA

CIP NO. 54056

Project No. 096-171445-002

LITHIA, FLORIDA MARCH 2012



,-7-2017

CLIFFORD G. KOENIG, P.E.

PROJECT NUMBER 0096-171445-002

LICENSE NO. 64078

HDR Engineering, Inc.

5426 Bay Center Drive

Tampa, FL 33609-3444

FDEP SUBMITTAL

DESCRIPTION

3/2012

DATE

ISSUE |

Suite 400

HDR CA# 4213

Hillsborough County

Elorida

HILLSBOROUGH COUNTY, FLORIDA

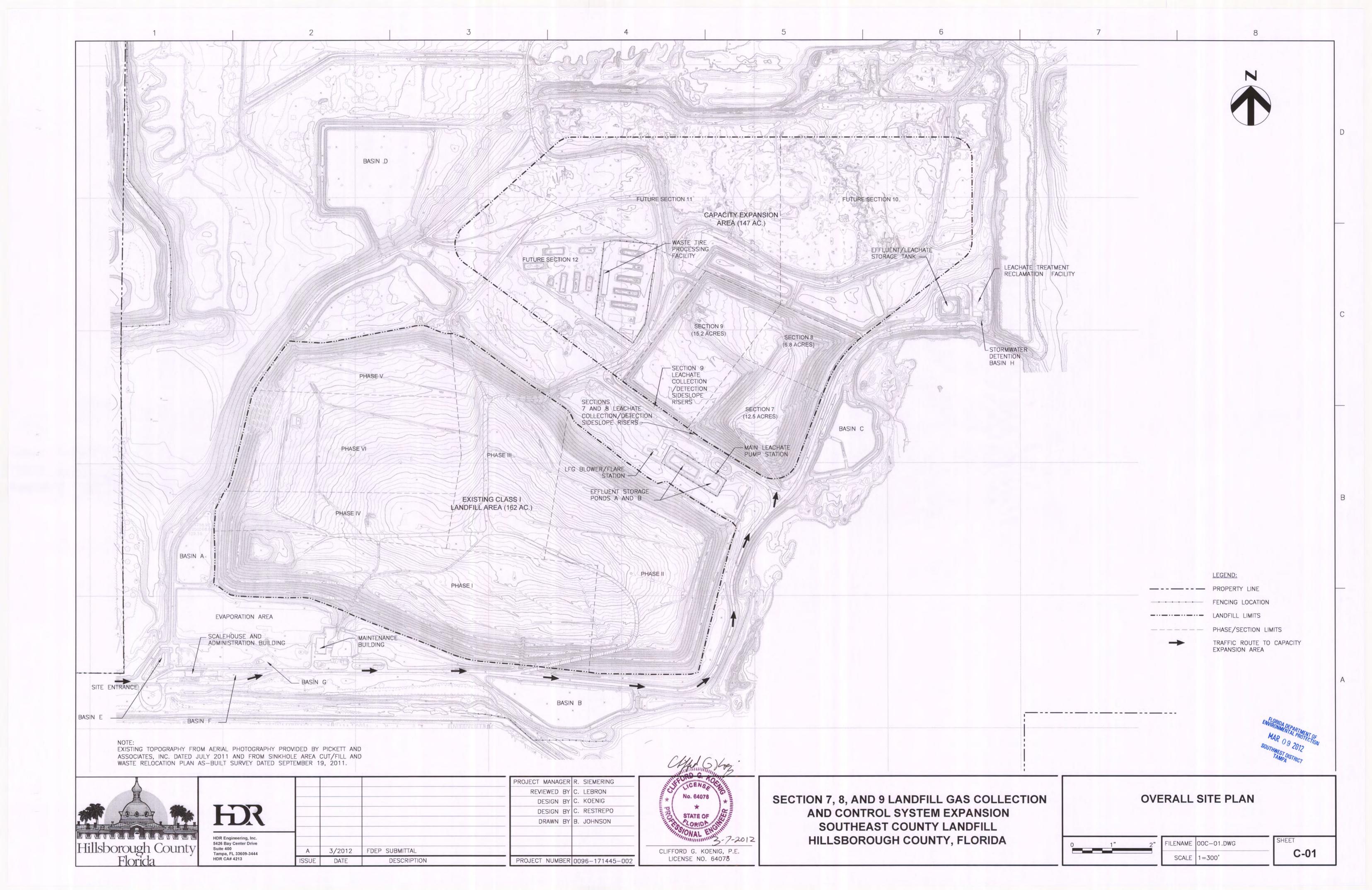
21. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ENGINEER FOR

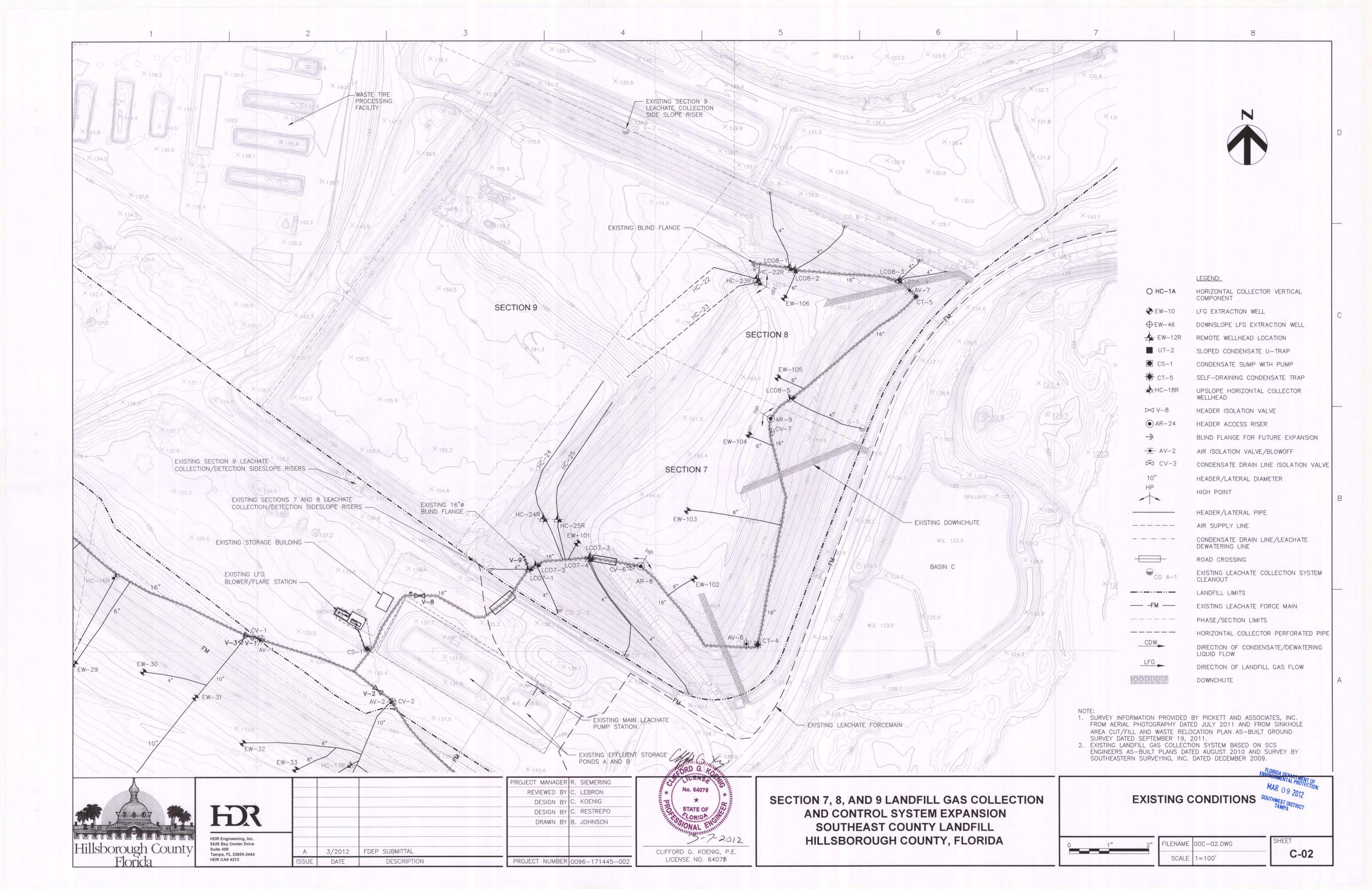
22. THE CONTRACTOR IS ADVISED THAT THE LANDFILL CONTAINS A SYNTHETIC LINER AS PART OF THE SUBGRADE CONSTRUCTION, ALL COSTS ASSOCIATED WITH REPAIR RESULTING FROM DAMAGE TO THIS LINER SYSTEM SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THESE COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO ENGINEER'S REVIEW, REPAIR OR REPLACEMENT BY A QUALIFIED HDPE/LLDPE LINER INSTALLER, THIRD PARTY OBSERVATION, AND

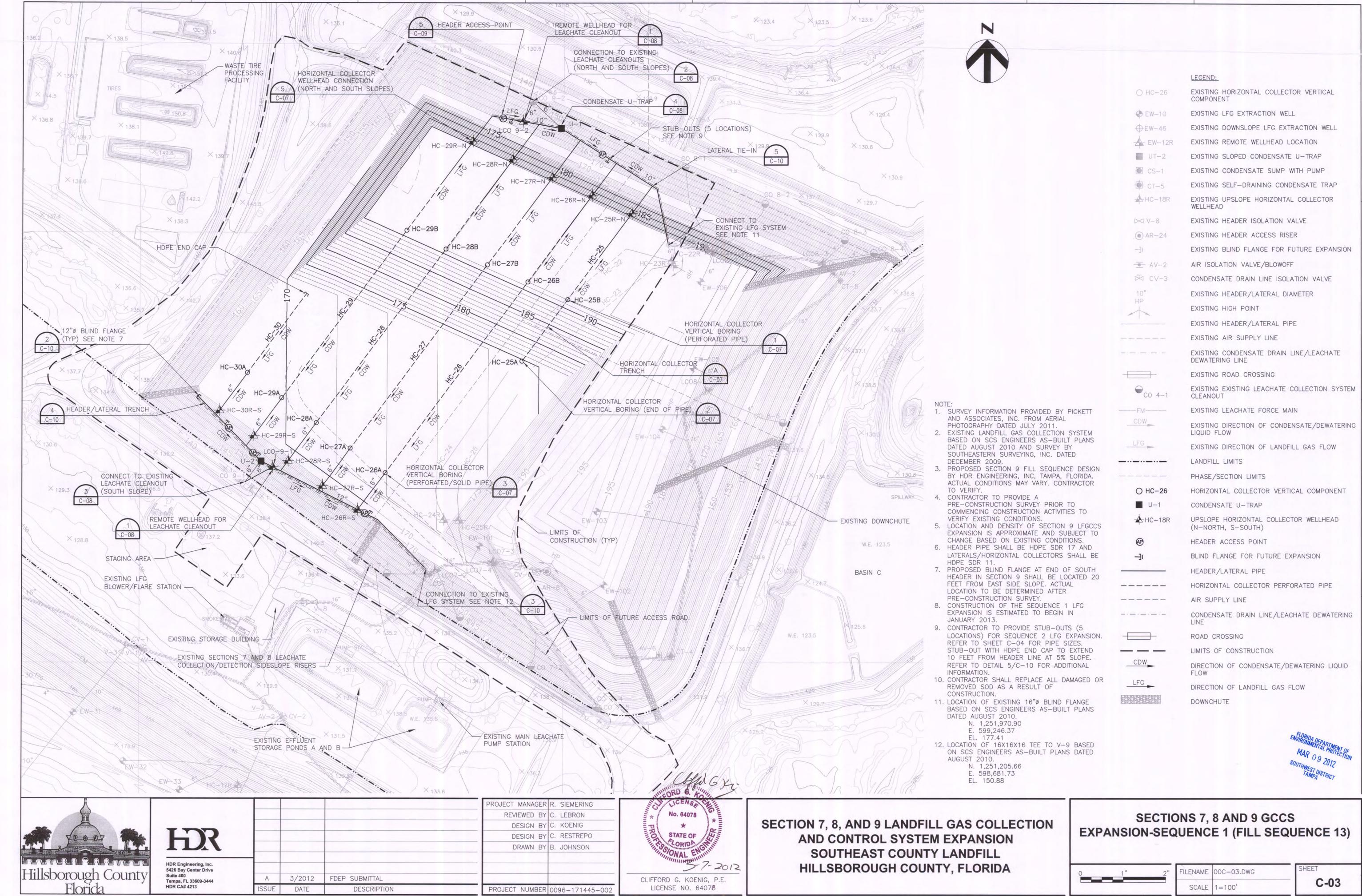
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSPECTION FEES AND ENGINEERING HOURS OVER THE 60 HOURS PER WEEK WORK SCHEDULE AT ACTUAL BILLING RATES. CONTRACTOR SHALL SUBMIT IN WRITING TO THE ENGINEER WITHIN FIVE CALENDAR DAYS

LENAME | OOG-02.DWG SCALE AS SHOWN

G-02







CLIFFORD G. KOENIG, P.E.

LICENSE NO. 64078

PROJECT NUMBER 0096-171445-002

FDEP SUBMITTAL

DESCRIPTION

3/2012

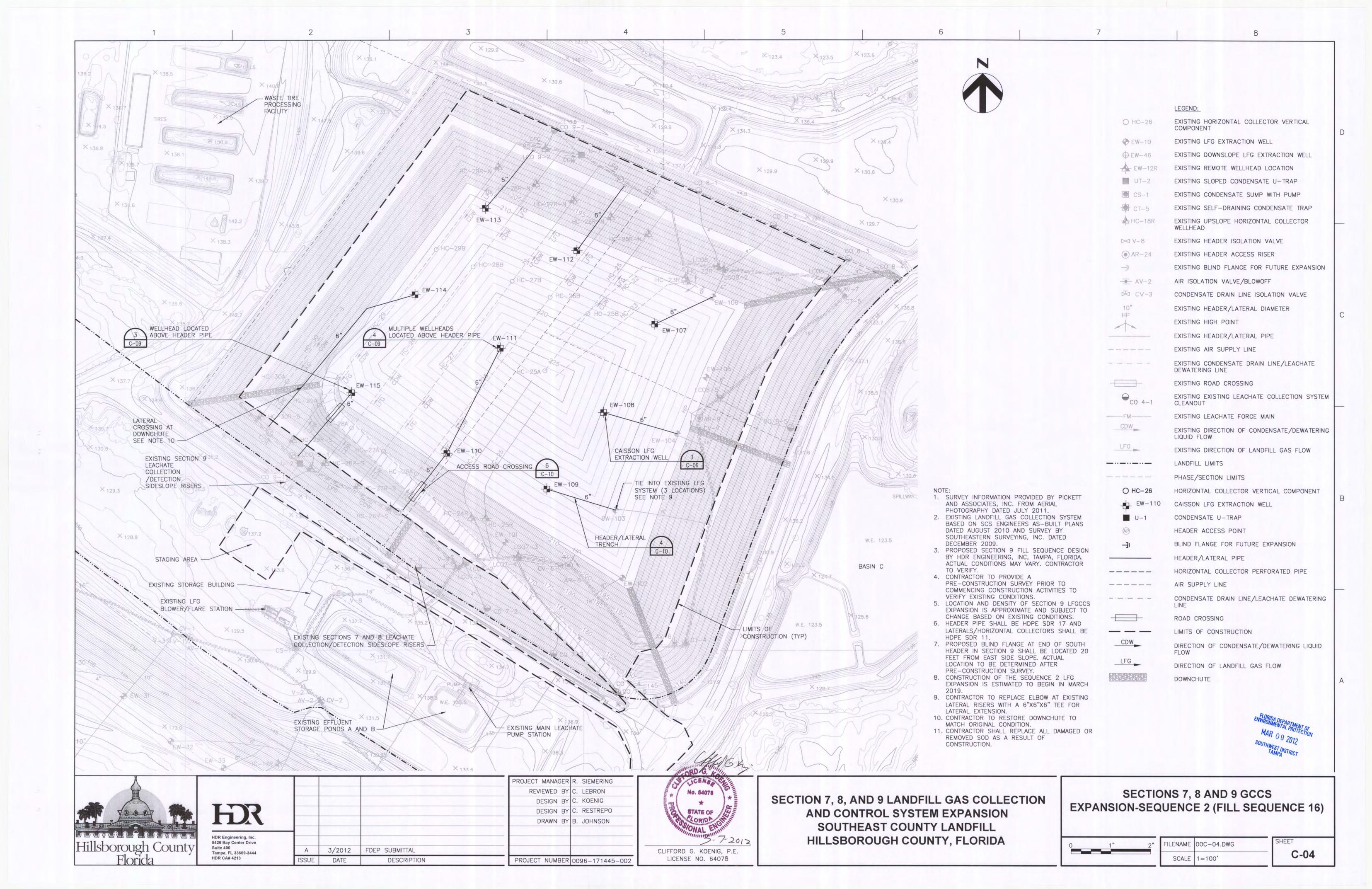
DATE

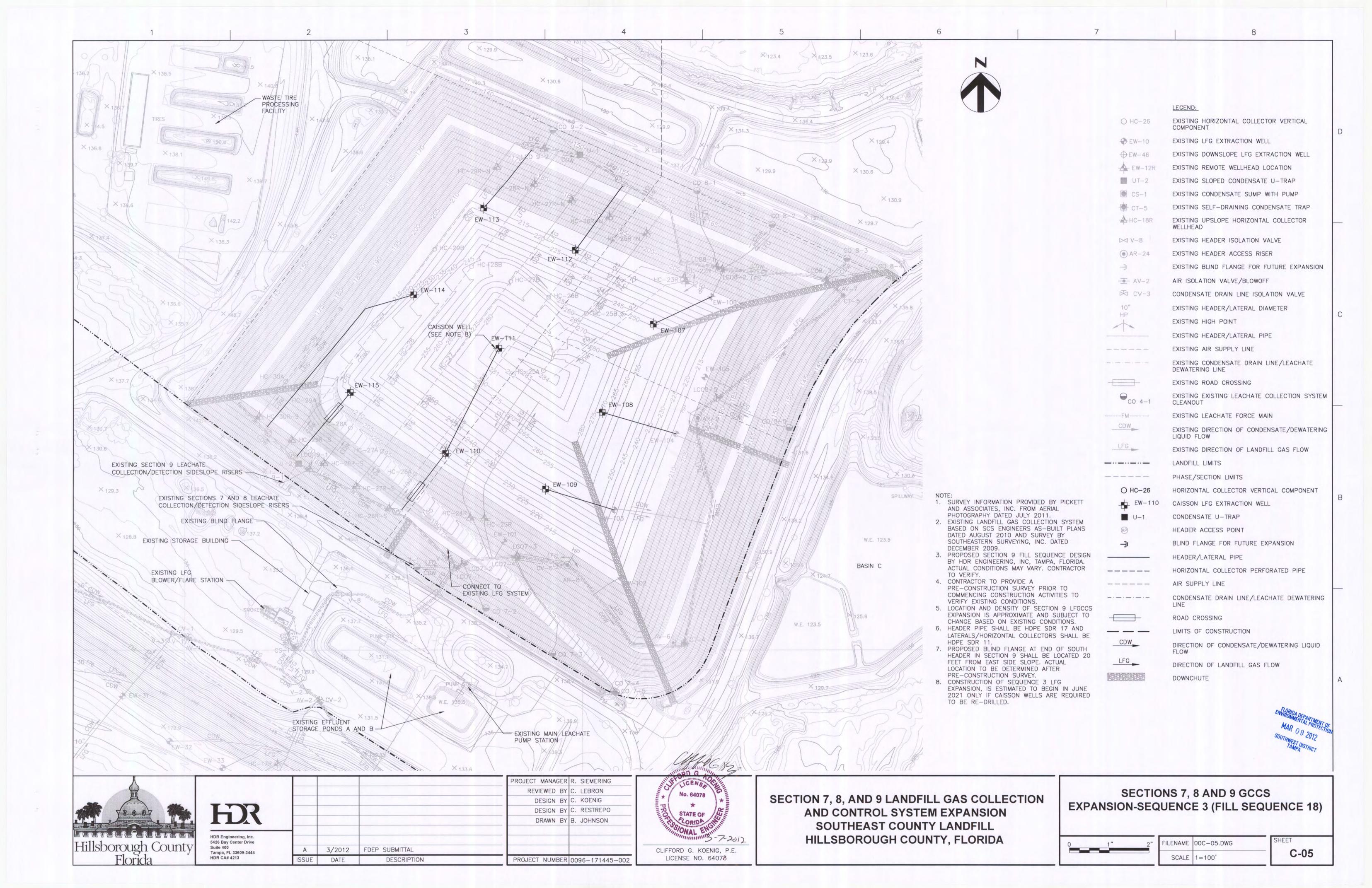
Tampa, FL 33609-3444



LENAME OOC-03.DWG SCALE 1=100

C-03



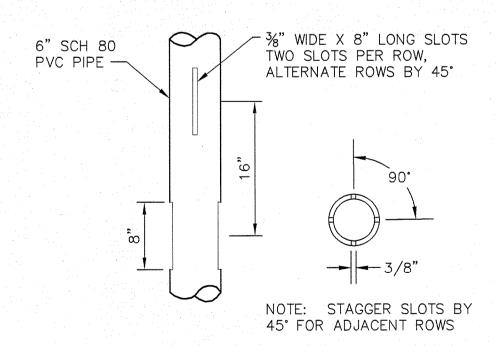


		<u> </u>				<u></u>						
								SURVEY WITH FIELD ADJUSTMENTS				
WELL ID	GRID COORDINATES		FINAL GRADE ELEVATION	BASE GRADE ELEVATION ^{1, 2}	CALCULATED DEPTH OF WASTE (DR) ³	CALCULATED BOREHOLE DEPTH (DB)	PERFORATED / SLOTTED PIPE (DP) ⁴	GRID COORDINATES (SURVEYED)		SURVEYED C OVER ELEVATION	CALCULATED BOREHOLE DEPTH (DB)	CALCULATED PERFORATED LENGTH (DP)
	NORTHING	EASTING						NORTHING	EASTING			
SEQUENCE 1												
HC - 25A	1,251,704.24	598,832.63	175	134.5	40.5	25.5	24.5					
HC - 25B	1,251,844.65	599,009.45	192.5	134.5	58	43	42					
HC - 26A	1,251,441.51	598,580.16	172	132	40	25	24		1.000		·	
HC - 26B	1,251,885.39	598,914.94	192	134.5	57.5	42.5	41.5	i i i i i i i i i i i i i i i i i i i	e e Eser			
HC - 27A	1,251,498.39	598,497.85	171	130	41	26	25		1,224,34			
HC - 27B	1,251,925.11	598,819.66	191.5	134	57.5	42.5	41.5					
HC - 28A	1,251,557.52	598,417.64	170.5	128	42.5	27.5	26.5					
HC - 28B	1,251,961.68	598,722.02	191	132	59	44	43					
HC - 29A	1,251,615.19	598,335.83	170	128	42	27	26					
HC - 29B	1,252,005.25	598,629.64	190.5	131	59.5	44.5	43.5					
HC - 30A	1,251,674.09	598,255.00	170	129	41	-26	25					
SEQUENCE 2												
EW-107	1,251,818.08	599,176.97	215	134	81	66	67					
EW-108	1,251,596.59	599,048.96	220	134	86	71 849.	72					
EW-109	1,251,404.22	598,906.73	215	134	g 81 g g	66	67		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
EW-110	1,251,493.31	598,656.44	212	143	69	54	55				11.0	
EW-111	1,251,757.75	598,789.92	225	133	92	77	78					
EW-112	1,252,002.93	598,981.79	211	134	77	62	63					· No.
EW-113	1,252,109.19	598,752.31	[[A]] 211	134	77 1918 1914 77	62	63		.1344			
EW-114	1,251,891.59	598,576.46	212 (11.5)	132	80	65	66		1			
EW-115	1,251,646.94	598,417.76	1.0倍 211 各級語	129	82	67 , 4, 4, 4, 4	68		11.0			
					TOTALS:	964	962			TOTALS:	0 .44	0

NOTES:

1. FINAL GRADE ELEVATION FOR LFGCCS EXPANSION SEQUENCE 1 BASED ON FILL SEQUENCE 13.

- 2. FINAL GRADE ELEVATIONS FOR LFGCCS EXPANSION SEQUENCE 2 BASED ON FILL SEQUENCE 16.
- 3. BASE GRADE ELEVATION BASED ON SECTION 9 TOPOGRAPHIC SURVEY OF
- PROTECTIVE COVER BY SOUTHEASTERN SURVEYING, INC. DATED MAY 8, 2008. 4. LENGTH OF SLOTTED PIPE OF LFGCCS EXPANSION SEQUENCE 2 INCLUDES 2 FEET STICK-UP.



6"ø SCH. 80 SLOTTED PVC PIPE (2)

ROJECT MANAGER R. SIEMERING REVIEWED BY LEBRON KOENIG DESIGN BY DESIGN BY RESTREPO DRAWN BY B. JOHNSON

PROJECT NUMBER 0096-171445-002

No. 64078 STATE OF CORIDA 3-7-2012 CLIFFORD G. KOENIG, P.E. LICENSE NO. 64078

1. 8"ø HDPE SDR 17 PIPE STUB THROUGH 8" HOLE IN CENTER OF BLIND FLANGE. PIPE STUB EXTRUSION WELDED TO HDPE BLIND FLANGE AT TOP OF CAISSON.

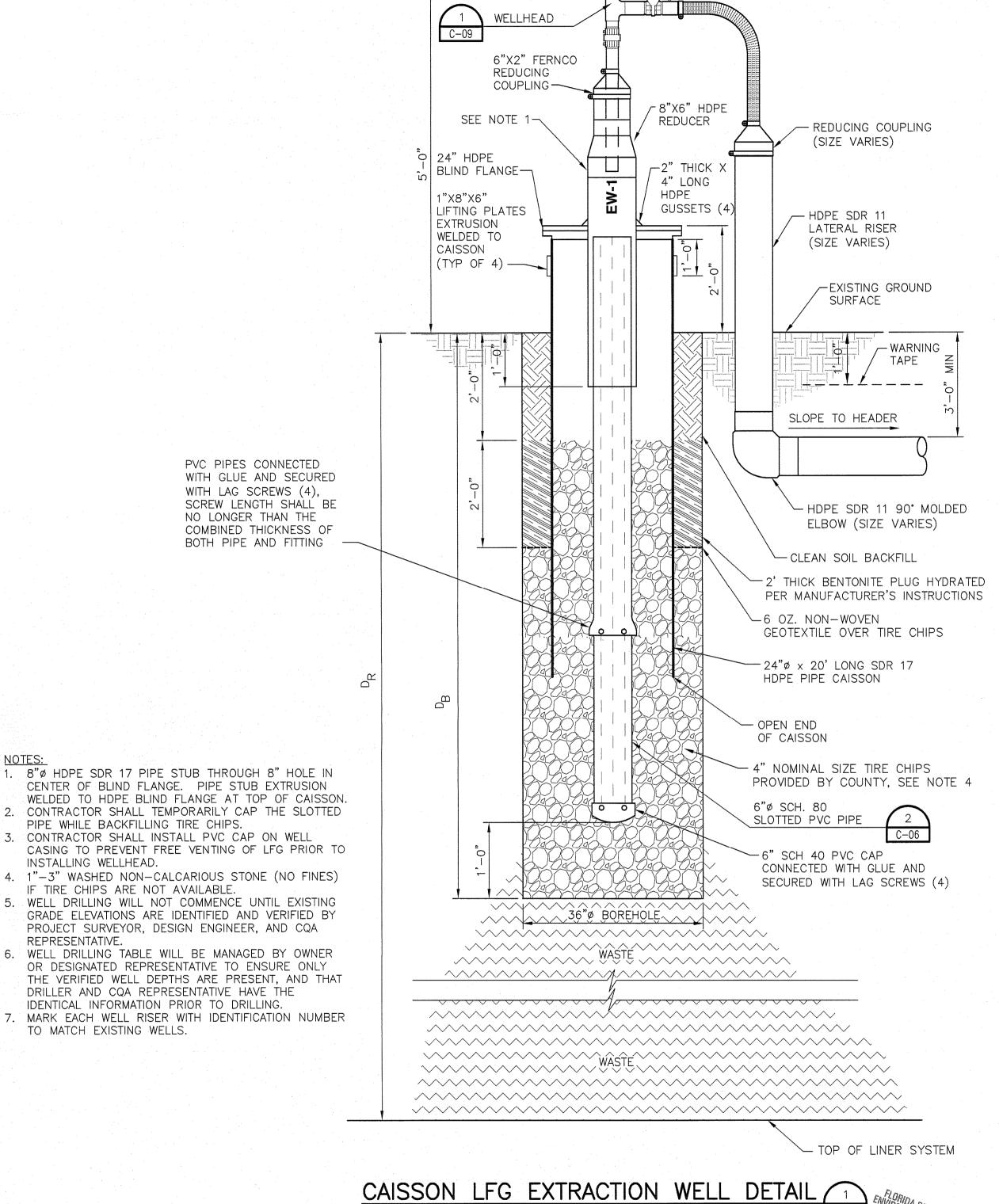
PIPE WHILE BACKFILLING TIRE CHIPS. 3. CONTRACTOR SHALL INSTALL PVC CAP ON WELL CASING TO PREVENT FREE VENTING OF LFG PRIOR TO INSTALLING WELLHEAD.

4. 1"-3" WASHED NON-CALCARIOUS STONE (NO FINES) IF TIRE CHIPS ARE NOT AVAILABLE.

5. WELL DRILLING WILL NOT COMMENCE UNTIL EXISTING GRADE ELEVATIONS ARE IDENTIFIED AND VERIFIED BY PROJECT SURVEYOR, DESIGN ENGINEER, AND CQA REPRESENTATIVE.

6. WELL DRILLING TABLE WILL BE MANAGED BY OWNER OR DESIGNATED REPRESENTATIVE TO ENSURE ONLY THE VERIFIED WELL DEPTHS ARE PRESENT, AND THAT DRILLER AND CQA REPRESENTATIVE HAVE THE IDENTICAL INFORMATION PRIOR TO DRILLING.

7. MARK EACH WELL RISER WITH IDENTIFICATION NUMBER TO MATCH EXISTING WELLS.



SECTION 7, 8, AND 9 LANDFILL GAS COLLECTION AND CONTROL SYSTEM EXPANSION SOUTHEAST COUNTY LANDFILL

HILLSBOROUGH COUNTY, FLORIDA

EXTRACTION WELL DETAILS AND WELL SCHEDULE

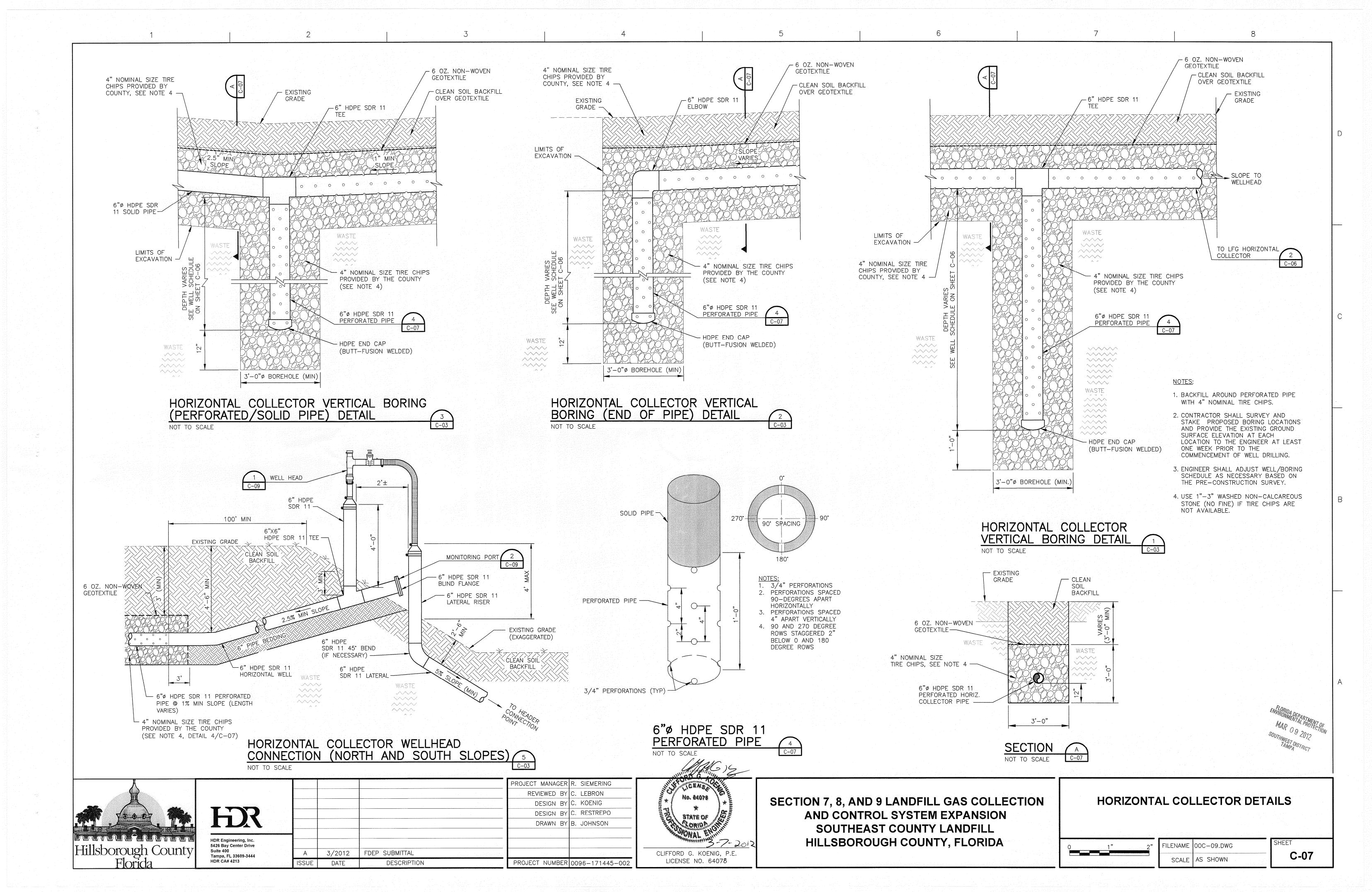
ILENAME OOC-08.DWG SCALE AS SHOWN

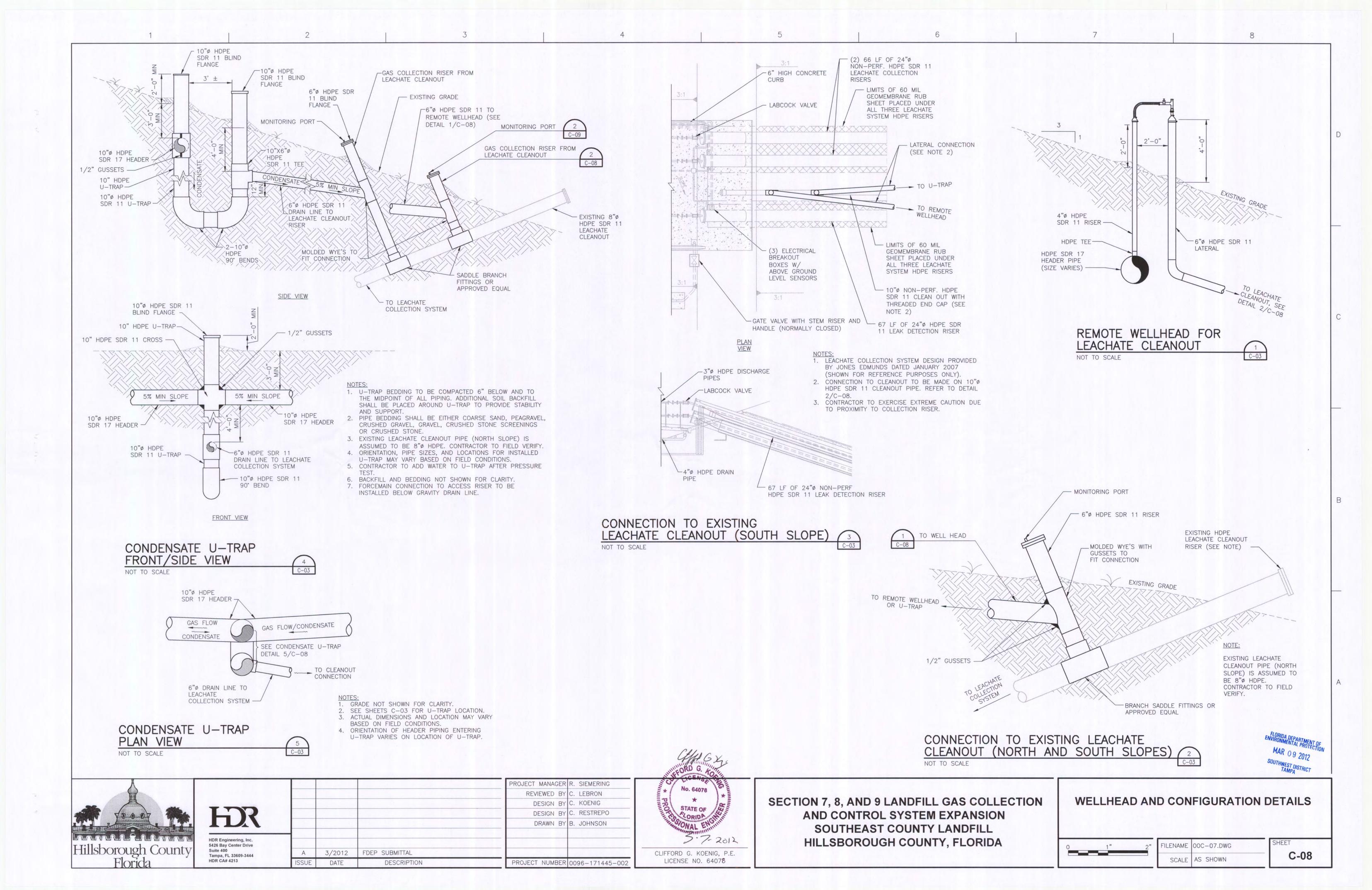
SHEET C-06

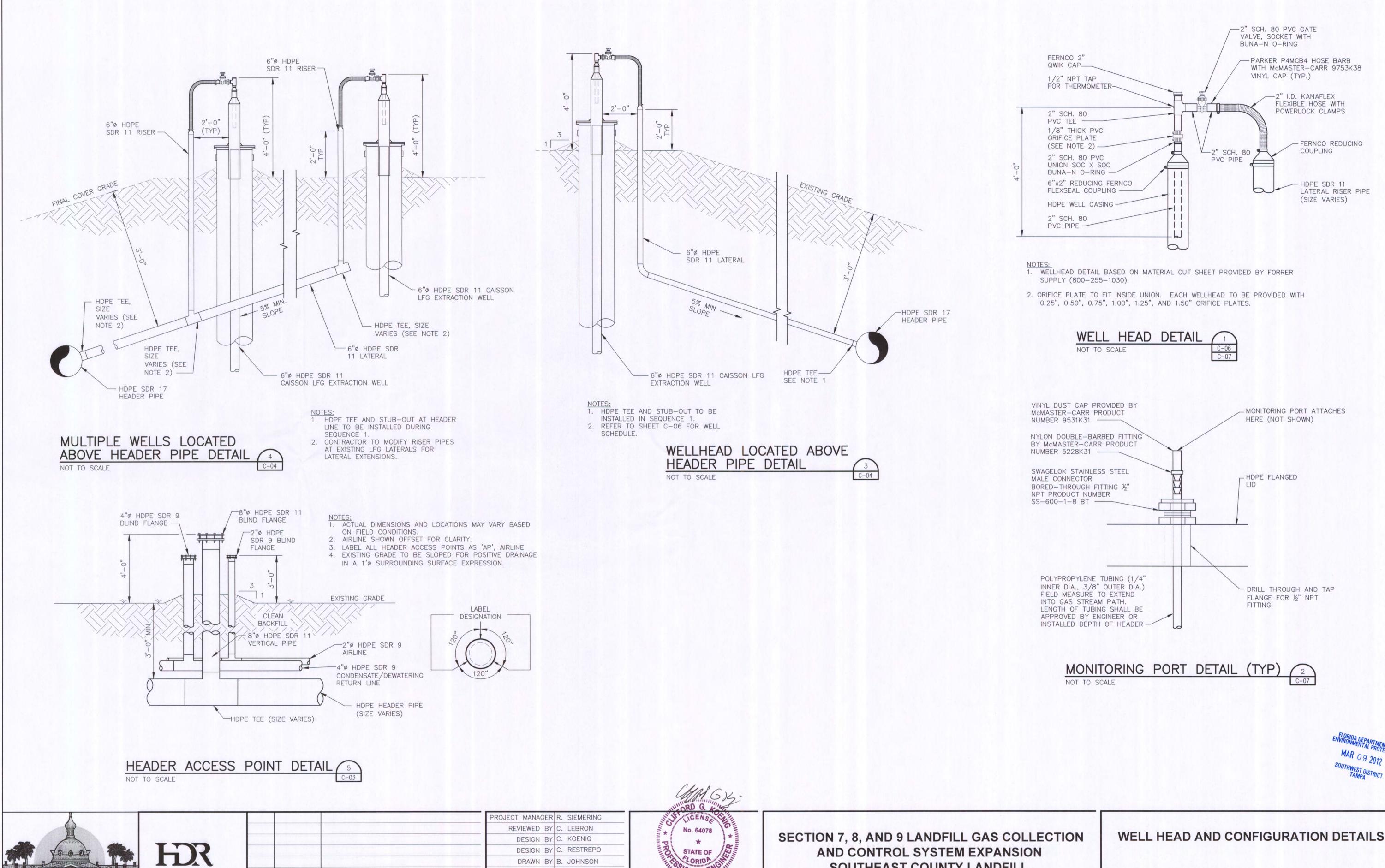
Hillsborough County Florida

HR HDR Engineering, Inc. 5426 Bay Center Drive Suite 400 Tampa, FL 33609-3444 HDR CA# 4213

3/2012 FDEP SUBMITTAL DESCRIPTION DATE







CLIFFORD G. KOENIG, P.E.

LICENSE NO. 64078

PROJECT NUMBER 0096-171445-002

Hillsborough County

Florida

5426 Bay Center Drive

Tampa, FL 33609-3444

HDR CA# 4213

3/2012

DATE

FDEP SUBMITTAL

DESCRIPTION

ILENAME OOC-08-2.DWG C-09 SCALE AS SHOWN

SOUTHEAST COUNTY LANDFILL

HILLSBOROUGH COUNTY, FLORIDA

-2" SCH. 80 PVC GATE VALVE, SOCKET WITH BUNA-N O-RING

VINYL CAP (TYP.)

PARKER P4MCB4 HOSE BARB

WITH McMASTER-CARR 9753K38

2" I.D. KANAFLEX FLEXIBLE HOSE WITH POWERLOCK CLAMPS

- FERNCO REDUCING

HDPE SDR 11 LATERAL RISER PIPE

(SIZE VARIES)

- MONITORING PORT ATTACHES

- DRILL THROUGH AND TAP

FLANGE FOR 1/2" NPT

FITTING

HERE (NOT SHOWN)

HDPE FLANGED

COUPLING

