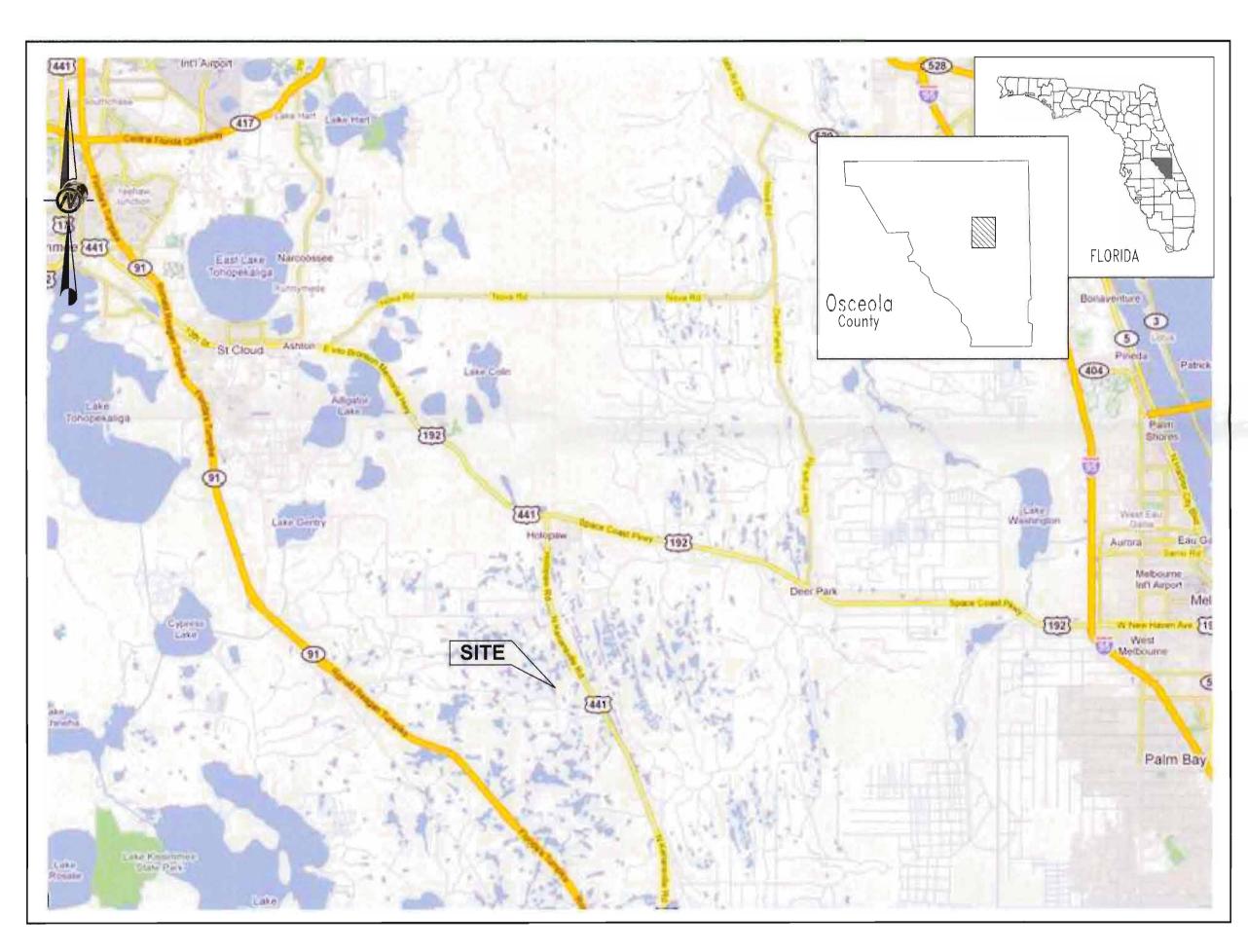
J.E.D. SOLID WASTE MANAGEMENT FACILITY HORIZONTAL GAS COLLECTOR AND GCCS/LEACHATE SUMP CONNECTIONS INTERMEDIATE PERMIT MODIFICATION

ST. CLOUD, OSCEOLA COUNTY, FLORIDA



SITE LOCATION MAP

INDEX TO DRAWINGS

1. COVER SHEET

29A. GAS MANAGEMENT PLAN HORIZONTAL GAS COLLECTORS

29B. HORIZONTAL GAS COLLECTORS PLAN LAYOUT (CELL 7 TO CELL 10)

32A. HORIZONTAL GAS COLLECTORS DETAILS

32B. HORIZONTAL GAS COLLECTORS CROSS SECTIONS

LFG TYPICAL SUMP CONNECTION DETAILS

Prepared for:



COUNTY, LLC 1501 OMNI WAY ST. CLOUD, FLORIDA 34773

Prepared by:



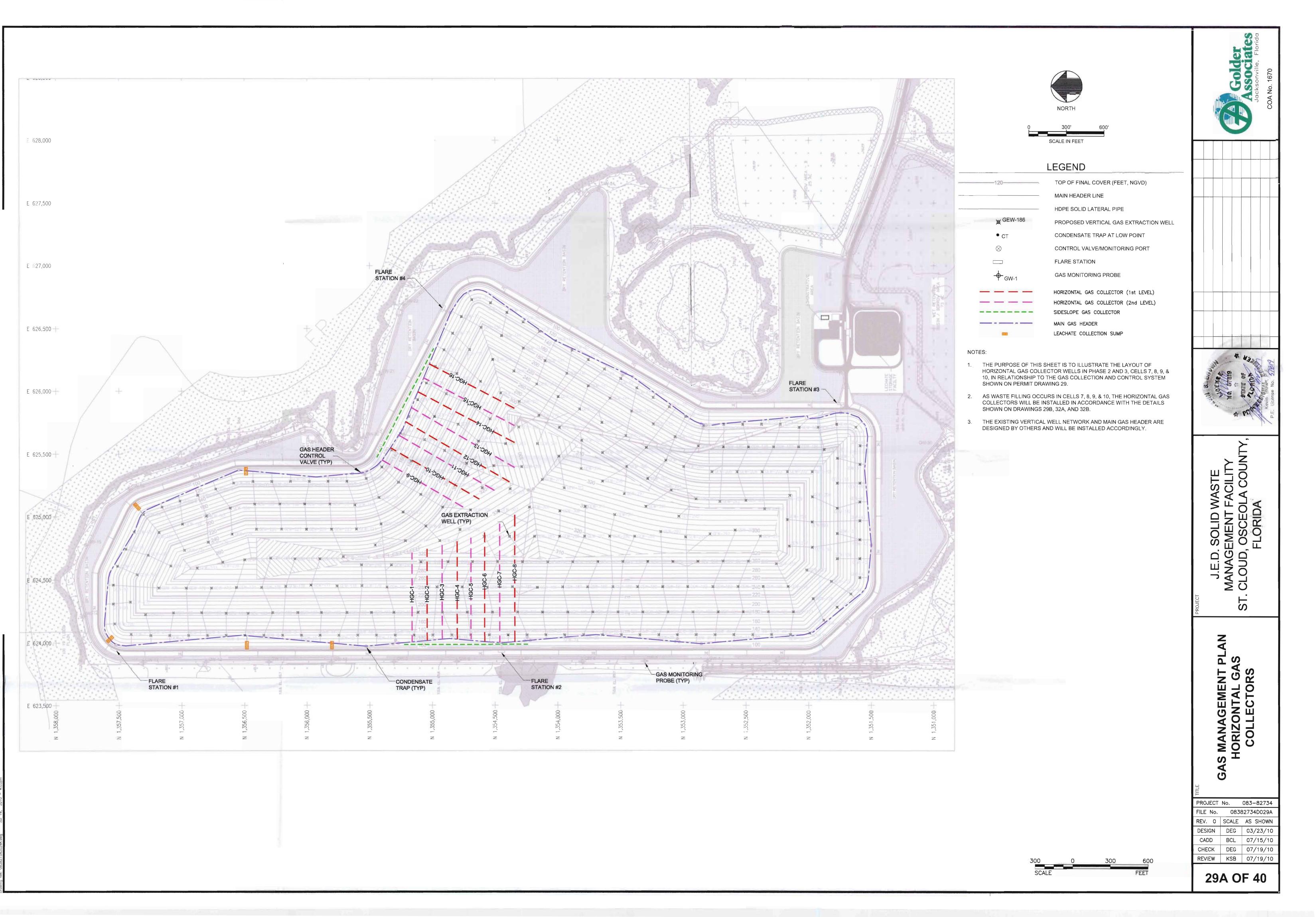
July 2010

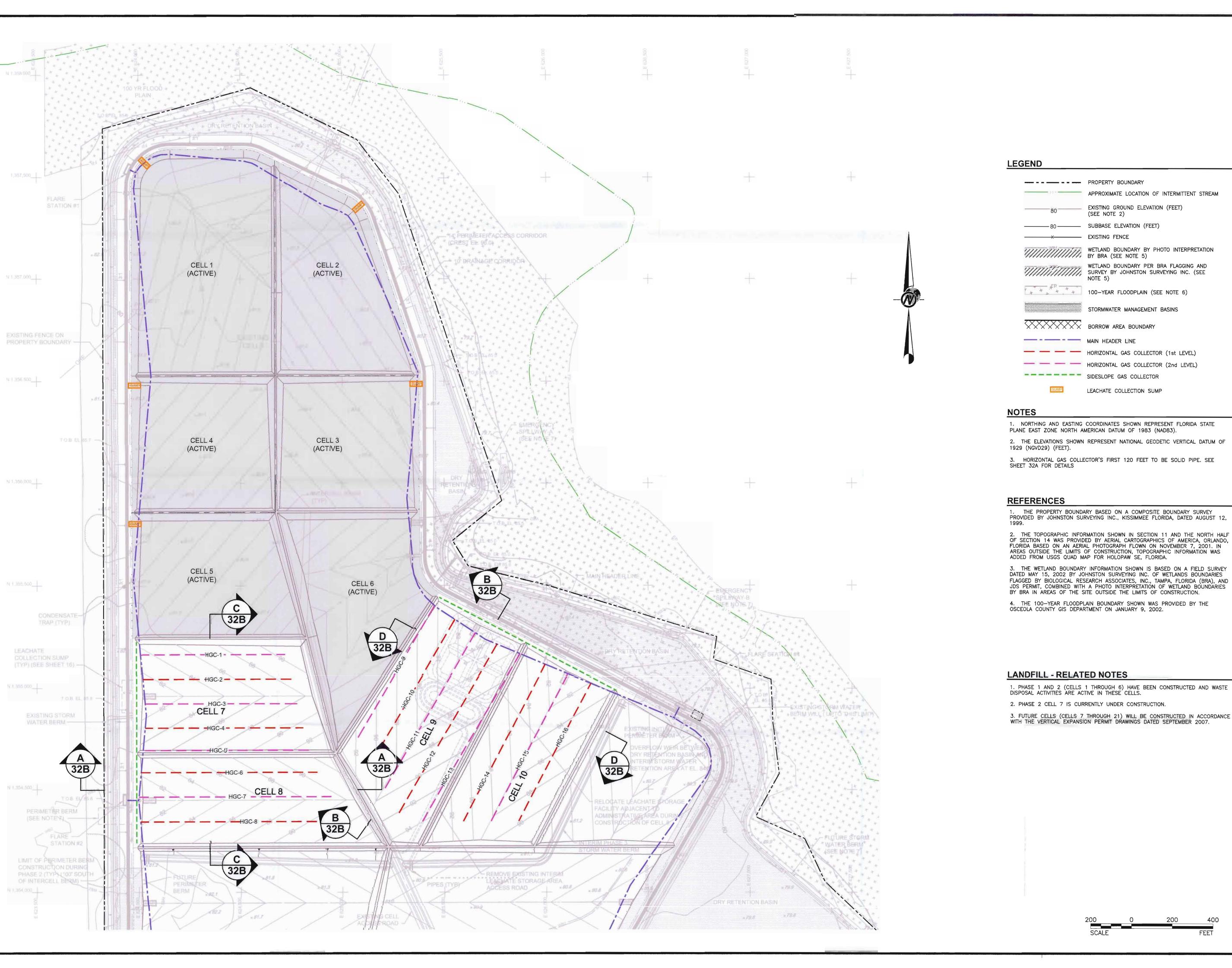
J.E.D. SOLID WASTE MANAGEMENT FACILITY
OSCEOLA COUNTY
FLORIDA



TITLE SHEET/LIST OF DRAWINGS

DRAWING 1





APPROXIMATE LOCATION OF INTERMITTENT STREAM WETLAND BOUNDARY BY PHOTO INTERPRETATION BY BRA (SEE NOTE 5) WETLAND BOUNDARY PER BRA FLAGGING AND SURVEY BY JOHNSTON SURVEYING INC. (SEE NOTE 5) 100-YEAR FLOODPLAIN (SEE NOTE 6) — — HORIZONTAL GAS COLLECTOR (1st LEVEL) — HORIZONTAL GAS COLLECTOR (2nd LEVEL)

2. THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF

3. HORIZONTAL GAS COLLECTOR'S FIRST 120 FEET TO BE SOLID PIPE. SEE

3. THE WETLAND BOUNDARY INFORMATION SHOWN IS BASED ON A FIELD SURVEY DATED MAY 15, 2002 BY JOHNSTON SURVEYING INC. OF WETLANDS BOUNDARIES



J.E.D. SOLID WASTE MANAGEMENT FACILI CLOUD, OSCEOLA CO FLORIDA

ST.

1. THE PROPERTY BOUNDARY BASED ON A COMPOSITE BOUNDARY SURVEY PROVIDED BY JOHNSTON SURVEYING INC., KISSIMMEE FLORIDA, DATED AUGUST 12,

2. THE TOPOGRAPHIC INFORMATION SHOWN IN SECTION 11 AND THE NORTH HALF OF SECTION 14 WAS PROVIDED BY AERIAL CARTOGRAPHICS OF AMERICA, ORLANDO, FLORIDA BASED ON AN AERIAL PHOTOGRAPH FLOWN ON NOVEMBER 7, 2001. IN AREAS OUTSIDE THE LIMITS OF CONSTRUCTION, TOPOGRAPHIC INFORMATION WAS

3. FUTURE CELLS (CELLS 7 THROUGH 21) WILL BE CONSTRUCTED IN ACCORDANCE WITH THE VERTICAL EXPANSION PERMIT DRAWINGS DATED SEPTEMBER 2007.

YOUT LAY(L 10) HORIZONTAL GA LECTORS PLAN L (CELL 7 TO CELL <u>ပ</u>

PROJECT	No.	083-82734	
FILE No.	08382734D029B		
REV. 0	SCALE	AS SHOWN	
DESIGN	DEG	03/23/10	
CADD	BCL	07/19/10	
CHECK	DEG	07/19/10	
REVIEW	KSB	07/19/10	

DRAWING 29B OF 40 TO BE APPROXIMATELY 5'x5'x5' AND BACKFILLED WITH COARSE STONE,
TIRE CHIPS, OR EQUIVALENT INERT DRAINAGE MATERIAL.

2. TO ALLOW FOR INCREASED SETTLEMENT AND COMPRESSIBILITY
WHEN USING TIRE CHIPS AS BACKFILL MEDIA, INCREASE DEPTHS TO

1.5' ABOVE AND BELOW PIPE. DIMENSIONS OF TRENCH ARE MINIMUM OWNER MAY INCREASE SIZE OF TRENCH BASED ON MATERIAL USED.

TYPICAL SECTION OF
10"Ø HDPE HORIZONTAL GAS
COLLECTOR

45°

10"ø SDR 11 HDPE

1/2"ø PERFORATIONS SPACED
AT 6" AND 45' (STAGGERED)

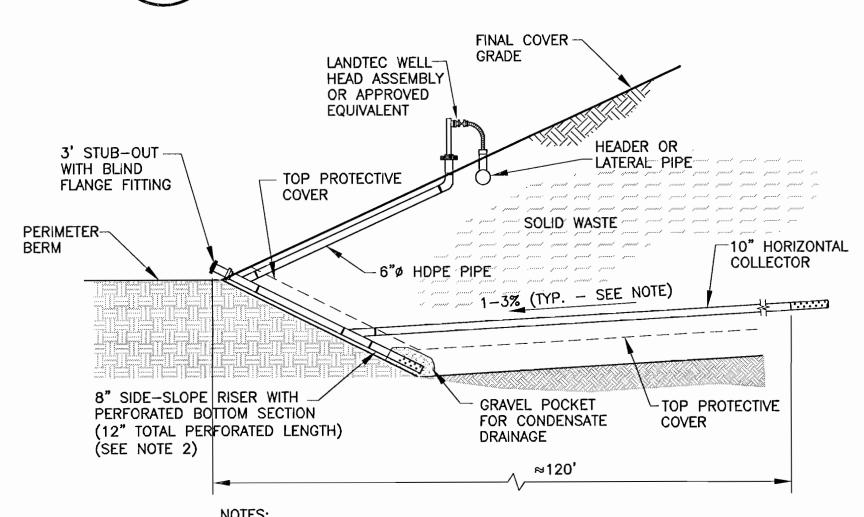
1.5' ABOVE AND BELOW PIPE. DIMENSIONS OF TRENCH ARE MINIMUM.

OWNER MAY INCREASE SIZE OF TRENCH BASED ON MATERIAL USED.

TYPICAL PROFILE OF

HORIZONTAL GAS COLLECTOR

HDPE PERFORATED PIPE DETAIL



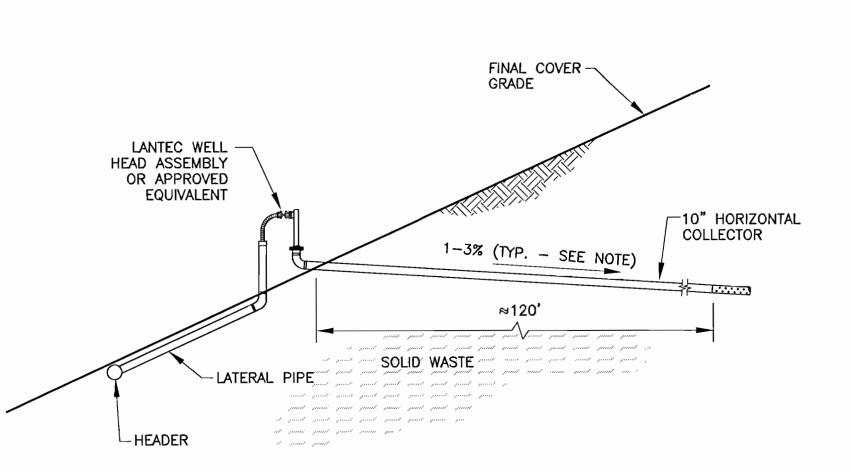
SLOPE DIRECTION AND GRADE OF HORIZONTAL GAS COLLECTOR WILL BE BASED ON SLOPE DIRECTION AND GRADE OF FILL OPERATIONS.

2. 8" SIDESLOPE RISER TO BE INSTALLED DIRECTLY ON UNDERLYING BASE OF GEOCOMPOSITE LINER DURING CELL CONSTRUCTION. PLACE ADDITIONAL STRIP OF GEOCOMPOSITE BENEATH PIPE FOR ADDITIONAL CUSHION.

CONNECTION DETAIL
HORIZONTAL GAS COLLECTOR

1ST LEVEL

32A

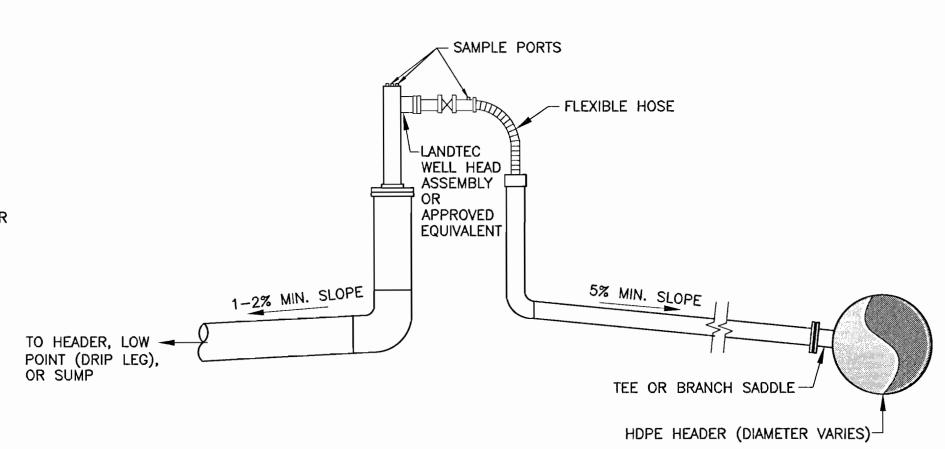


NOTE: SLOPE DIRECTION AND GRADE OF HORIZONTAL GAS COLLECTOR WILL BE BASED ON SLOPE DIRECTION AND GRADE OF FILL OPERATIONS.

CONNECTION DETAIL
HORIZONTAL GAS COLLECTOR

2ND LEVEL

NTS



NOTE: ACTUAL CONNECTION MAY VARY BASED UPON FILL OPERATIONS AND LOCATION OF CONNECTION.

32A

8" SIDE—SLOPE RISER WITH—PERFORATED BOTTOM SECTION

STUB-OUT & CONNECTION DETAIL FOR 10"Ø HDPE HORIZONTAL GAS COLLECTOR

J' STUB-OUT
WITH BLIND
FLANGE FITTING

O'Ø HDPE PIPE

TOP PROTECTIVE
COVER

PERIMETER
BERM

PERIMETER
BERM

PERIMETER
BERM

FINAL COVER

GRADE

HEADER OR
LATERAL PIPE
LATERAL PIPE
SOLID WASTE

PERIMETER
SEE DETAIL

8
32A

1-2% (TYP.)

(12" TOTAL PERFORATED LENGTH)
(SEE NOTE 2)

NOTES:

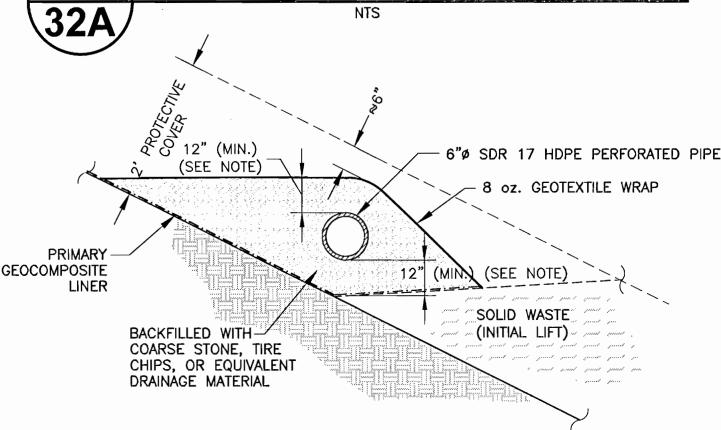
1. SLOPE DIRECTION WILL BE BASED ON SLOPE DIRECTION AND GRADE OF FILL OPERATIONS.

8" SIDESLOPE RISER TO BE INSTALLED DIRECTLY ON UNDERLYING BASE OF GEOCOMPOSITE LINER DURING CELL CONSTRUCTION. PLACE ADDITIONAL STRIP OF GEOCOMPOSITE BENEATH PIPE FOR ADDITIONAL CUSHION.

SOLID WASTE

(INITIAL LIFT)

CONNECTION DETAIL PERIMETER BERM SIDESLOPE GAS COLLECTOR



NOTE: TO ALLOW FOR INCREASED SETTLEMENT AND COMPRESSIBILITY WHEN USING TIRE CHIPS AS BACKFILL MEDIA, INCREASE DEPTHS TO 1.5' ABOVE AND BELOW PIPE.

TYPICAL SECTION OF 6"Ø HDPE
PERIMETER BERM SIDESLOPE
GAS COLLECTOR

)

Jacksonville, F

ANAGEMENT FACILITY
OUD, OSCEOLA COUNTY

HORIZONTAL GAS OLLECTORS DETAILS

PROJECT No. 083-82734

FILE No. 08382734D032A

REV. 0 SCALE AS SHOWN

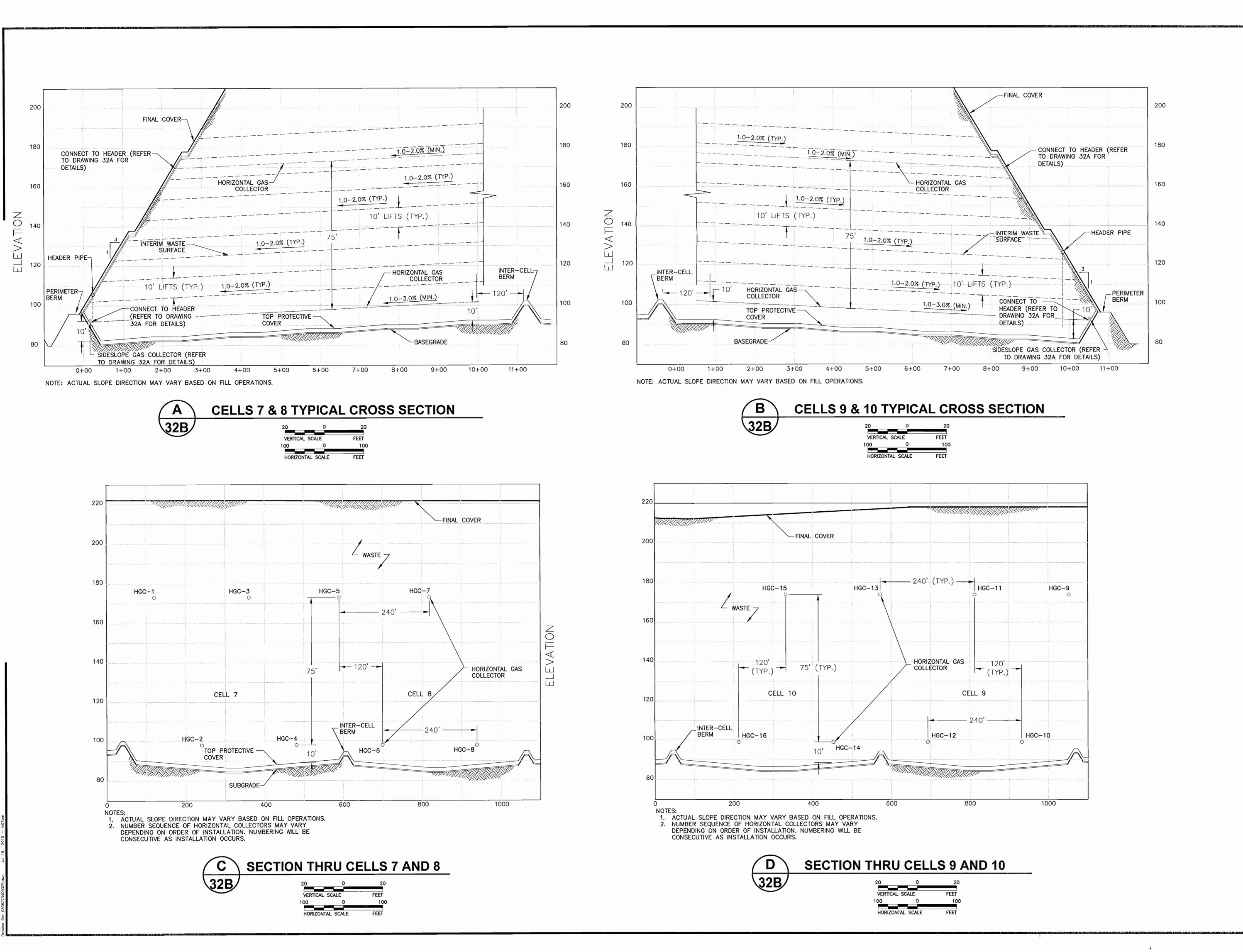
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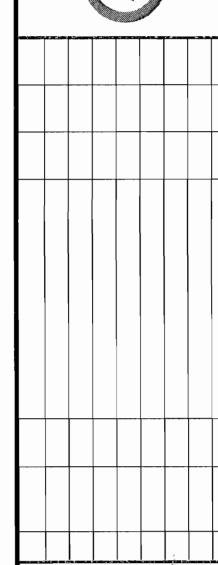
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DRAWING 32A OF 40



Jacksonville, Floric



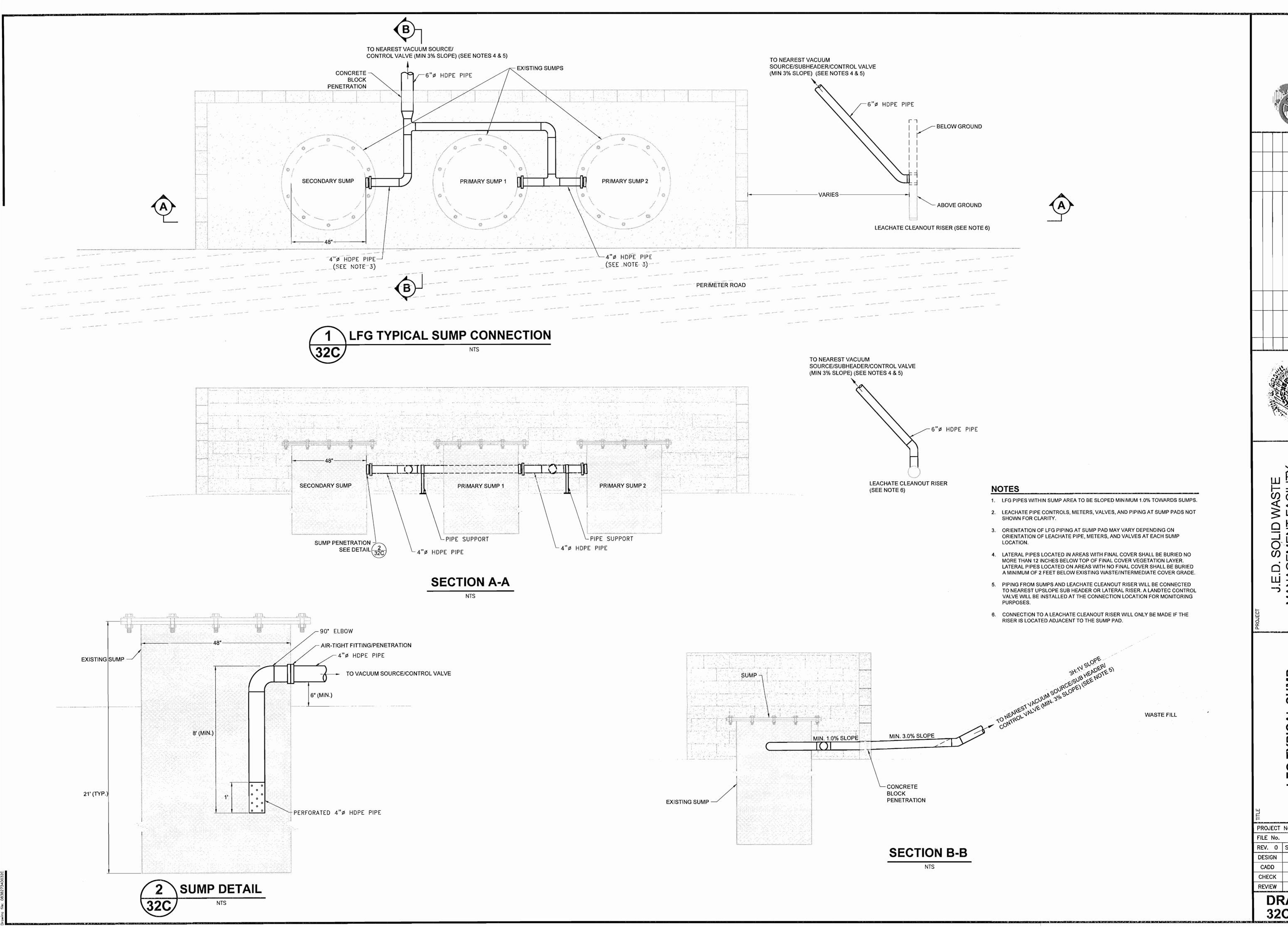


J.E.D. SOLID WASTE
MANAGEMENT FACILITY
T. CLOUD, OSCEOLA COUNT
FLORIDA

HORIZONTAL GAS COLLECTORS CROSS SECTIONS

ROJECT	No.	083-82734
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DRAWING 32B OF 40



COLLECTION OF STORY Florid



YLN - TEN

MANAGEMENT FACILITY
ST. CLOUD, OSCEOLA COUNTRIDA

LFG TYPICAL SUMP ONNECTION DETAILS

PROJECT No. 083-82734

FILE No. 08382734D032C

REV. 0 SCALE AS SHOWN

DESIGN DEG 03/23/10

CADD BCL 07/19/10

CHECK DEG 07/19/10

REVIEW KSB 07/19/10

DRAWING 32C OF 40