

# Report of Construction

August 2021 – November 2021

## NORTH CELL LANDFILL GAS CONSTRUCTION PHASE VI CONSTRUCTION AND RETROFIT OF EXISTING GAS COLLECTION SYSTEM TOMOKA FARMS ROAD LANDFILL

Prepared for:

Volusia County Solid Waste Division  
1990 Tomoka Farms Road  
Port Orange, FL 32124



Prepared by:

**HDR Engineering, Inc.**  
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(904) 598-8900

Presented to:

Florida Department of Environmental Protection  
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Kanishka Perera Ph.D., PE

FL Registration No: 67647



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Attachment D      Daily Field Logs

Attachment E      Construction Photographs



# Introduction

HDR Engineering, Inc. (HDR) was retained by Volusia County (the County) to provide construction quality assurance (CQA) and certification for construction and installation of the Landfill Gas Collection System (LFGCS) expansion at the Class 1 Active Area of the Tomoka Farms Landfill (the Landfill). The gas collection system construction drawings were prepared by HDR dated July 16, 2021. The project included a portion of Phase IV of the landfill gas master plan and retrofit of the existing LFG collection system to enhance gas collection. HDR adjusted the vertical well schedule based on SCS's field survey, received August 20, 2021. SCS Field Services provided construction services for the project from August 2021 to November 2021. Chelsea Williams E.I. (HDR) provided CQA during this time. This Construction Certification Report describes the construction activities involved and documents the materials and components of the project.

## Site Background

The Landfill is an active municipal solid waste landfill that is owned and operated by Volusia County, located at 1990 Tomoka Farms Road, Port Orange, Florida. The Landfill has a flare station located adjacent to the former landfill gas to energy (LFGTE) plant to destruct landfill gas before emitting into the atmosphere.

## Project Overview

This report provides certification of construction completed for a portion of Phase VI of the Landfill Gas Master Plan. This portion of Phase VI of the landfill gas expansion system included 3 replacement vertical wells, 8 new vertical wells, and header installation. The project also included abandoning horizontal collector wells and connecting new and replacement vertical wells to the gas collection system. As part of the project, damaged and/or clogged laterals, air lines and header lines were repaired/replaced. Construction began August 18, 2021 with substantial completion on November 8, 2021. Attachment A shows the master plan drawings and conformed construction drawings.



## Contact List

The parties involved in this project are listed below:

### **Owner:**

Volusia County Solid Waste Division  
1990 Tomoka Farms Road  
Port Orange, Florida 32124  
(386) 947-2952

### **Landfill Gas Master Plan Design Engineer:**

HDR Engineering, Inc.  
76 South Laura Street, Suite 1600  
Jacksonville, Florida 32202  
(904) 598-8900

### **Construction Contractor:**

SCS Field Services  
11260 Roger Bacon Drive, Suite 300  
Reston, Virginia 20190  
(571) 353-2041

### **Construction Quality Assurance and Record Documentation:**

HDR Engineering, Inc.  
315 E Robinson Street, Suite 400  
Orlando, Florida 32828  
(407) 420-4200

### **Surveyor:**

Smith Surveying Group  
9770 Baymeadows Road, Suite 121  
Jacksonville, Florida 32256  
(904) 260-6300

### **Drilling Operator:**

B&H Drilling Services, Inc.  
1424 SE 15<sup>th</sup> Street  
Fort Lauderdale, Florida 33316  
(954) 522-1969

## Abandonment of Horizontal Collectors

SCS Field Services removed the temporary 2-inch vacuum line to the horizontal collectors 1b – 7b and capped off vacuum. The horizontal collectors 1b, 2b, 3b, 4b, 5b, 6b and 7b were abandoned in place with minimum 3-foot depth. SCS Field Services welded 6-inch caps on vacuum side of the riser and backfilled the area.

## Vertical Well Installation

The vertical well installation was conducted by B&H Drilling Services, Inc. from September 2, 2021 to September 14, 2021. The vertical extraction wells were made up of 8-inch solid pipe glued to 8-inch perforated pipe and capped at the end. Each well consisted of 15 feet of solid CPVC pipe and the length of perforated pipe required for the specific depth of waste at each location. The completed well drilling logs are provided in **Attachment B**. A total of 165 feet of solid pipe and a total of 817 feet of perforated pipe were installed for a total drill depth of 982 feet.

Construction of the vertical wells consisted of drilling a 3-foot diameter borehole into waste and lowering the pipe into the borehole using the drill rig mast and winch. One foot of gravel was placed into the borehole before setting the well. The borehole was then filled to approximately 3 feet above the top of the perforated pipe with gravel, followed by a single side geocomposite, clean soil fill, hydrated bentonite seal, clean soil fill, hydrated bentonite seal, and backfill. The vertical well as-builts and waste composition data are provided in **Attachment B**.

## Abandonments

EW-15R, EW-22A, and EW-71 were abandoned in place. SCS Field Services excavated around EW-15R and EW-22A 3 feet deep. Wellheads were removed, vacuum lines and wells were capped, and air, forcemain and vacuum lines were exposed for future tie-ins. SCS Field Services excavated around EW-71 approximately 10 feet deep to expose remote tee, cut away tee and capped well. The 4-inch forcemain and 2-in airlines were lifted to 3 foot below grade. The well, forcemain, and air lines were cut and capped.

EW-27 and the associated 6-inch vacuum line, 4-inch forcemain and 2-inch airline were also abandoned. SCS Field Services backfilled the trench to finish grade.

## Re-Drilled

EW-15R, EW-22A, and EW-71 were replaced with EW-15B, EW-22B, and EW-71A, respectively. These vertical wells are comprised of 8-inch CPVC pipe to withstand higher temperatures. A summary of the replacement wells is provided below.

Well D	Date of Installation	Depth of Well
EW-15B	September 4, 2021	100 feet
EW-22B	September 3, 2021	105 feet
EW-71A	September 6, 2021	101 feet

## New Wells

Eight new vertical wells were installed and will be part of updated Master Plan. These vertical wells are comprised of 8-inch PVC SCH 80 pipe. A summary of the new vertical wells is provided below.

Well ID	Date of Installation	Depth of Well
EW-73	September 8, 2021	38 feet
EW-74	September 7, 2021	103 feet
EW-75	September 8, 2021	96 feet
EW-76	September 9, 2021	99 feet
EW-77	September 8, 2021	41 feet
EW-78	September 10, 2021	96 feet
EW-79	September 10, 2021	103 feet
EW-80	September 13, 2021	100 feet

## Tie-Ins

The vertical wells were tied into the existing gas collection system. The 6-inch SDR 11 HDPE lateral tie-in lines were constructed with 4-inch forcemain and 2-inch air lines in the same trench. Tie-in connection trenches were backfilled with structural fill, magnetic warning tape, and finished to grade.

## Design Modifications/Deviations

While connecting EW-74 and EW-75 to the existing gas collection system, it was discovered the 10-inch pipe at valve pit 1 was filled with sediment material. The County observed the issue and provided assistance to jet clean the 10-inch and 16-inch header. Once the lines were clear, SCS Field Services installed new 10-inch pipe and valves at the V-1 location indicated on the Master Plan drawings. SCS Field Services installed new 4-inch forcemain and 2-inch air lines, connecting to EW-74 and EW-75. Additionally, the placement for vertical well EW-15B was moved 15 feet east of the original design location due to the hole caving in with sand at 35 feet.

## Header Installation

According to Smith Surveying Group's Final As-Builts, the installed header piping was fabricated from 824 feet of 16-inch SDR 17 HDPE pipe and 1,392 feet of 12-inch SDR 17 HDPE pipe for a total of 2,216 feet of header. The associated air supply line was fabricated from 2-inch SDR 9 HDPE pipe and the associated forcemain line was fabricated from 4-inch SDR 11 HDPE pipe. All excavated material from trenching activities was removed and transported to the active face of the landfill. During the course of excavation and pipe installation, SCS Field Services used a laser to verify pipe slope and installed temporary access riser pipes on top of the header for Smith Surveying Group to obtain x,y,z coordinates to prepare as-builts. In addition, temporary access pipes were installed at transitions such as tees, valves, and other fittings. After the pipes were placed in the trench, backfilled with structural fill along with warning tape. The header pipe connects to CS-13 on the south side of the hill and connects to CS-6 on the north side of the hill. The final as-built survey can be found in **Attachment C**.

## Pressure Test

The air supply line was pressure tested at 50 PSI with no detectable loss of pressure. The header piping was pressure tested at 5 PSI with no detectable loss of pressure. The forcemain line was pressure tested at 25 PSI with no detectable loss of pressure.

## Condensate Sump

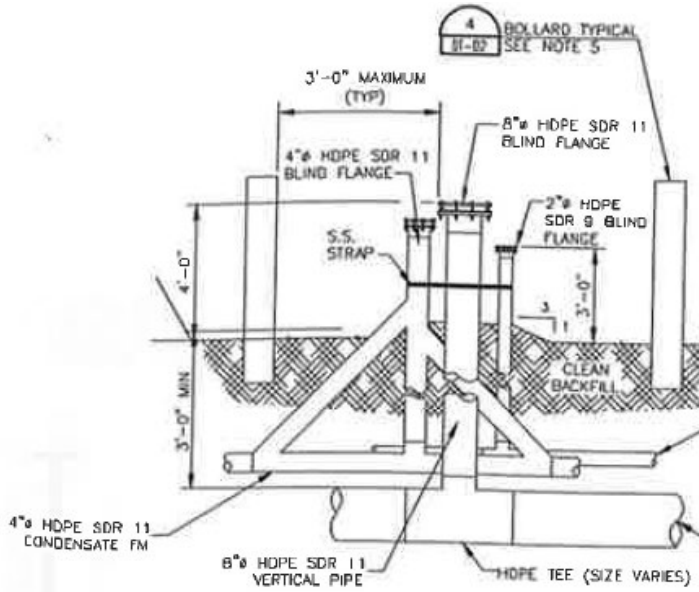
The new condensate sump (CS-12) was fabricated from 36-inch SDR 17 HDPE pipe with 16-inch SDR 17 HDPE pipe flange adapters to connect to the header pipe. SCS Field Services excavated to a depth of 10 feet for sump installation. After the sump was installed, 10 cubic yards of concrete from Daytona Ready Mix was poured 5 feet around the bottom of the sump, to prevent uplift. Once the concrete was dry, SCS Field Services connected CS-12 to the 16-inch header.

## Access Points and Valves

Five (5) access points were installed along the header pipe for future tie-in connections. Access points are fabricated with 8-inch SDR 11 HDPE pipe with blind flanges. Six (6) valve pits were installed along the header pipe, including airline valves, forcemain valves and subheader valves. An additional airline valve was installed near CS-9. Existing AV-1, CV-1, V-1, CV-2 and AV-2 were also replaced as part of this project. The locations of these valves and fittings are shown on the as-builts in **Attachment C**. SCS Field Services also installed bollards around the sump and valves.

## Design Modifications/Deviations

The alignment of the header in the eastside of the landfill was moved into the waste footprint instead of locating outside the waste footprint as shown in the Master Plan. Accordingly, the minimum slope of the header was increased to 5% within waste limits to allow for settlement. These deviations are reflected in the final as-builts (**Attachment C**). Additionally, the access point locations were modified considering future tie-in locations from the Master Plan. The forcemain access detail was adjusted with two "Y" type access points as shown in the below detail/picture for convenience when accessing the forcemain.



Original FM Access Detail



Modified FM Access Detail

## Certification

The project was inspected for acceptance on Thursday, November 4, 2021. CQA inspector Chelsea Williams (HDR) and Design Engineer Kanishka Perera (HDR) walked the header alignment and vertical wells. Daily logs completed by HDR and SCS are provided in **Attachment D**. Key photographs are provided in **Attachment E**.

This Construction Report is submitted by HDR to Volusia County to provide Certification for quality of the construction of the project at the Tomoka Farms Road Landfill. Based upon my review of the documentation, survey, testing results, and visual observations by myself and those under my direct supervision, it is my professional opinion that the construction of the project was performed in general conformance with the approved construction drawings prepared by HDR. I hereby certify the construction as a professional engineer licensed in Florida as evidence by my stamp provided below.

HDR ENGINEERING, INC.

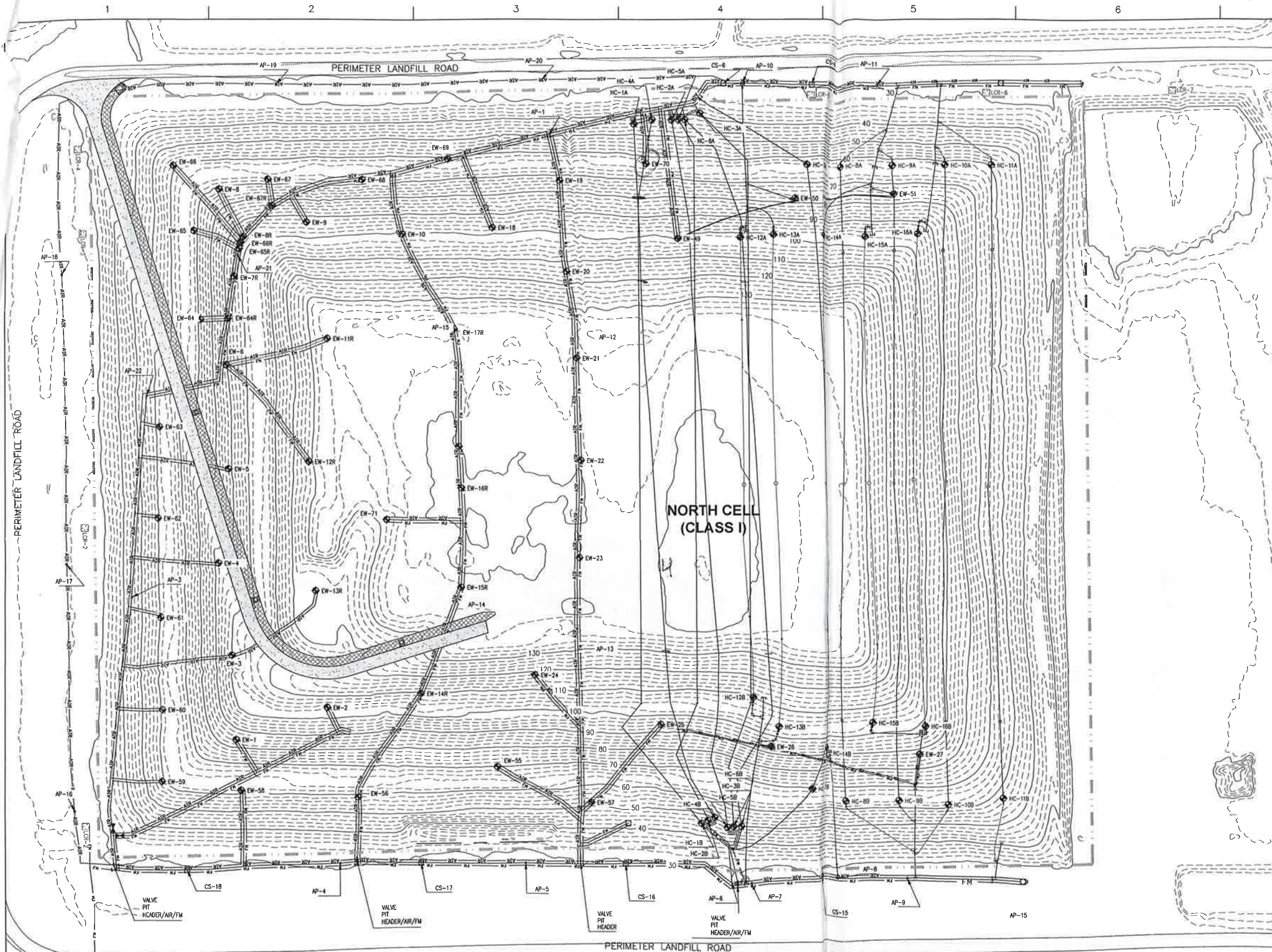
Kanishka Perera, P.E.

Project Engineer

## ATTACHMENT A

### Select Master Plan Drawings and Conformed Construction Drawings





**LEGEND**

- PROPERTY BOUNDARY
- - - - - LIMITS OF LINER
- 1080 EXISTING CONTOURS (MAJOR)
- EXISTING CONTOURS (MINOR)
- EXISTING HEADER (SIZE VARIES)
- EXISTING 6" LATERAL
- EXISTING HORIZONTAL WELL
- LCR-1 EXISTING LEACHATE CLEANOUT RISER
- ⊕ HC-7B EXISTING HORIZONTAL LFG WELLHEAD
- ⊙ EW-1 EXISTING LFG WELL
- LCRS EXISTING LEACHATE CLEANOUT
- CS-2 EXISTING CONDENSATE SUMP

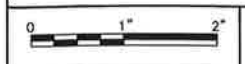
**NORTH CELL  
(CLASS I)**



ISSUE	DATE	DESCRIPTION	PREPARED BY:
A	JULY-2016	BID DOCUMENTS	JUNOS REED, P.E.

**LANDFILL GAS MASTER PLAN**  
 CLASS I ACTIVE AREA  
 TOMOKA FARMS ROAD LANDFILL  
 VOLUSIA COUNTY, FLORIDA

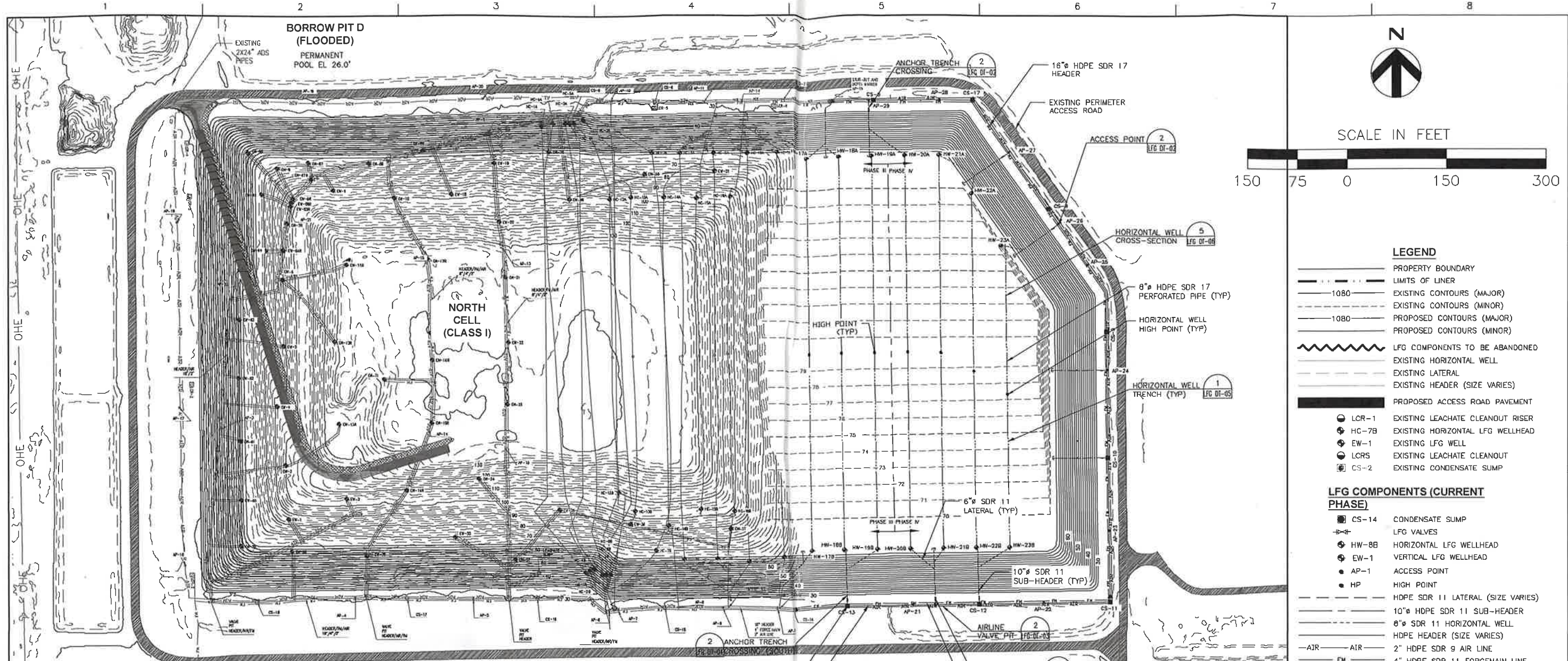
EXISTING CONDITIONS  
 PHASE I & II



SCALE  
 1" = 200'

LFG-01





**LEGEND**

- PROPERTY BOUNDARY
- LIMITS OF LINER
- 1080 EXISTING CONTOURS (MAJOR)
- 1080 EXISTING CONTOURS (MINOR)
- 1080 PROPOSED CONTOURS (MAJOR)
- 1080 PROPOSED CONTOURS (MINOR)
- LFG COMPONENTS TO BE ABANDONED
- EXISTING HORIZONTAL WELL
- EXISTING LATERAL
- EXISTING HEADER (SIZE VARIES)
- PROPOSED ACCESS ROAD PAVEMENT
- LCR-1 EXISTING LEACHATE CLEANOUT RISER
- HC-7B EXISTING HORIZONTAL LFG WELLHEAD
- EW-1 EXISTING LFG WELL
- LCRS EXISTING LEACHATE CLEANOUT
- CS-2 EXISTING CONDENSATE SUMP

**LFG COMPONENTS (CURRENT PHASE)**

- CS-14 CONDENSATE SUMP
- LFG VALVES
- HW-8B HORIZONTAL LFG WELLHEAD
- EW-1 VERTICAL LFG WELLHEAD
- AP-1 ACCESS POINT
- HP HIGH POINT
- HDPE SDR 11 LATERAL (SIZE VARIES)
- 10" HDPE SDR 11 SUB-HEADER
- 8" HDPE SDR 11 HORIZONTAL WELL
- HDPE HEADER (SIZE VARIES)
- AIR 2" HDPE SDR 9 AIR LINE
- FM 4" HDPE SDR 11 FORCEMAIN LINE

PHASE III CONSTRUCTION TABLE			PHASE IV CONSTRUCTION TABLE		
ITEM DESCRIPTION	UNIT	QUANTITY	ITEM DESCRIPTION	UNIT	QUANTITY
HORIZONTAL LFG WELLHEAD	EA	6	HORIZONTAL LFG WELLHEAD	EA	8
ACCESS POINT	EA	1	ACCESS POINT	EA	9
CONDENSATE SUMP	EA	0	CONDENSATE SUMP	EA	7
10" SUB-HEADER ISOLATION VALVES	EA	3	10" SUB-HEADER ISOLATION VALVES	EA	6
2" HDPE SDR 9 AIRLINE	LF	1,020	2" HDPE SDR 9 AIRLINE	LF	4,300
4" HDPE SDR 11 CONDENSATE FORCEMAIN	LF	1,020	4" HDPE SDR 11 CONDENSATE FORCEMAIN	LF	4,300
6" HDPE SDR 11 LATERAL	LF	980	6" HDPE SDR 11 LATERAL	LF	1,280
8" HDPE SDR 11 HORIZONTAL WELL	LF	2,630	8" HDPE SDR 11 HORIZONTAL WELL	LF	2,950
10" HDPE SDR 11 SUB-HEADER	LF	720	10" HDPE SDR 11 SUB-HEADER	LF	1,140
16" HDPE SDR 17 HEADER	LF	300	12" HDPE SDR 11 HEADER	LF	1,980
			16" HDPE SDR 17 HEADER	LF	800

**PHASE III & IV HORIZONTAL WELL SCHEDULE**

WELL ID	WELLHEAD A			HIGH POINT			WELLHEAD B			SOLID PIPE	PERFORATED PIPE
	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION		
PHASE III HW-17	1746909.18	625278.50	68	1746321.34	625294.56	80	1745716.81	625295.58	68	320	875
HW-18	1746910.61	625378.49	68	1746323.24	625394.55	80	1745719.98	625395.55	68	320	875
HW-19	1746912.05	625478.48	68	1746325.39	625494.53	80	1745722.86	625495.51	68	320	875
PHASE IV HW-20	1746914.29	625578.46	68	1746327.01	625594.51	80	1745723.85	625595.51	68	320	875
HW-21	1746915.99	625681.51	68	1746257.57	625695.52	80	1745726.21	625695.49	68	320	870
HW-22	1746800.86	625779.92	68	1746184.67	625795.57	79	1745734.48	625795.47	68	320	753
HW-23	1746644.77	625869.21	68	1746111.77	625897.63	77	1745728.50	625895.47	68	320	438

- NOTES:
- HORIZONTAL WELLS TO BE PLACED WITHIN THE LIMITS AS SHOWN.
  - 10" HDPE SDR 11 SUB-HEADER SHALL CONNECT TO HEADER DIRECTLY VIA TEE FITTING AND 10" ISOLATION VALVE, ADJACENT TO CONDENSATE SUMPS AND ACCESS POINTS.
  - 4" FORCEMAIN & 2" AIR LINE NOT SHOWN WITH 10" SUB-HEADER FOR CLARITY. ALL SUB-HEADER LINES SHOWN INCLUDE FORCEMAIN AND AIR LINE IN THE SAME TRENCH.
  - 6" LATERAL LINES FOR VERTICAL WELLS SHALL BE CONSTRUCTED WITH 4" FORCEMAIN AND 2" AIRLINE IN THE SAME TRENCH.
  - ELEVATIONS REFERRED TO IN THE HORIZONTAL WELL SCHEDULE FOR THE WELLHEADS AND HIGH POINTS ARE GROUND ELEVATIONS.
  - QUANTITIES IN PHASE III & IV CONSTRUCTION TABLES ARE APPROXIMATE.



ISSUE	DATE	DESCRIPTION
A	JULY 2016	BIDDING DOCUMENTS

PREPARED BY: JUNOS REED, P.E.

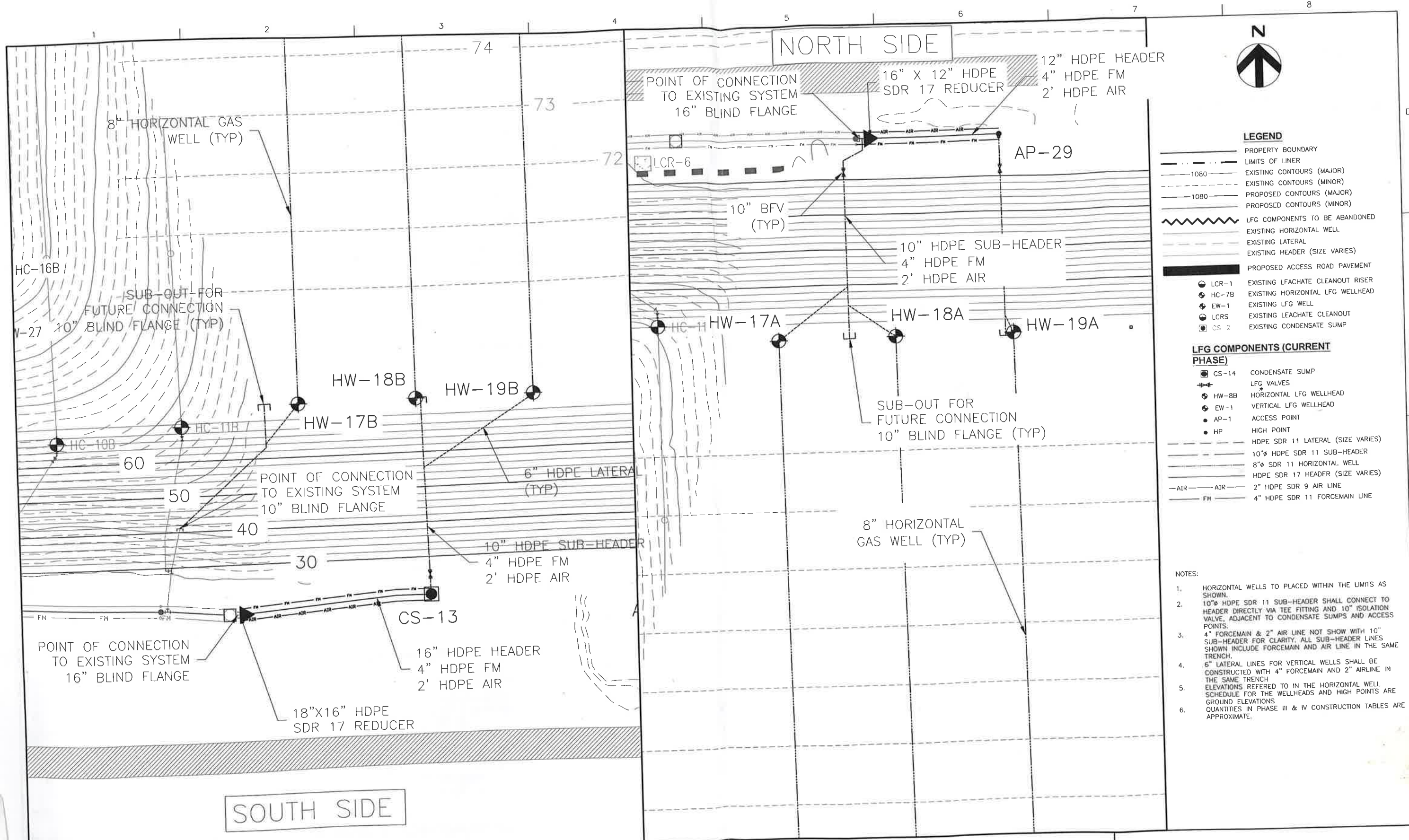
**LANDFILL GAS MASTER PLAN**  
 CLASS I ACTIVE AREA  
 TOMOKA FARMS ROAD LANDFILL  
 VOLUSIA COUNTY, FLORIDA

**LFG MASTER PLAN PHASE III & IV (OVERALL)**

SCALE 1" = 300'

LFG-02





- LEGEND**
- PROPERTY BOUNDARY
  - - - LIMITS OF LINER
  - - - -1080 EXISTING CONTOURS (MAJOR)
  - - - -1080 EXISTING CONTOURS (MINOR)
  - - - -1080 PROPOSED CONTOURS (MAJOR)
  - - - -1080 PROPOSED CONTOURS (MINOR)
  - ~~~~~ LFG COMPONENTS TO BE ABANDONED
  - - - - - EXISTING HORIZONTAL WELL
  - - - - - EXISTING LATERAL
  - - - - - EXISTING HEADER (SIZE VARIES)
  - ▬ PROPOSED ACCESS ROAD PAVEMENT
  - LCR-1 EXISTING LEACHATE CLEANOUT RISER
  - ⊕ HC-7B EXISTING HORIZONTAL LFG WELLHEAD
  - ⊕ EW-1 EXISTING LFG WELL
  - ⊕ LCRS EXISTING LEACHATE CLEANOUT
  - ⊕ CS-2 EXISTING CONDENSATE SUMP
- LFG COMPONENTS (CURRENT PHASE)**
- ⊕ CS-14 CONDENSATE SUMP
  - ⊕ LFG VALVES
  - ⊕ HW-8B HORIZONTAL LFG WELLHEAD
  - ⊕ EW-1 VERTICAL LFG WELLHEAD
  - AP-1 ACCESS POINT
  - HP HIGH POINT
  - HDPE SDR 11 LATERAL (SIZE VARIES)
  - 10" HDPE SDR 11 SUB-HEADER
  - 8" SDR 11 HORIZONTAL WELL
  - HDPE SDR 17 HEADER (SIZE VARIES)
  - AIR AIR 2" HDPE SDR 9 AIR LINE
  - FM 4" HDPE SDR 11 FORCEMAIN LINE

- NOTES:**
1. HORIZONTAL WELLS TO BE PLACED WITHIN THE LIMITS AS SHOWN.
  2. 10" HDPE SDR 11 SUB-HEADER SHALL CONNECT TO HEADER DIRECTLY VIA TEE FITTING AND 10" ISOLATION VALVE, ADJACENT TO CONDENSATE SUMPS AND ACCESS POINTS.
  3. 4" FORCEMAIN & 2" AIR LINE NOT SHOWN WITH 10" SUB-HEADER FOR CLARITY. ALL SUB-HEADER LINES SHOWN INCLUDE FORCEMAIN AND AIR LINE IN THE SAME TRENCH.
  4. 6" LATERAL LINES FOR VERTICAL WELLS SHALL BE CONSTRUCTED WITH 4" FORCEMAIN AND 2" AIRLINE IN THE SAME TRENCH.
  5. ELEVATIONS REFERRED TO IN THE HORIZONTAL WELL SCHEDULE FOR THE WELLHEADS AND HIGH POINTS ARE GROUND ELEVATIONS.
  6. QUANTITIES IN PHASE III & IV CONSTRUCTION TABLES ARE APPROXIMATE.



ISSUE	DATE	DESCRIPTION
A	JULY 2016	BIDDING DOCUMENTS

PREPARED BY: JUNOS REED, P.E.

## LANDFILL GAS MASTER PLAN

CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

**LFG MASTER PLAN PHASE III**

SCALE  
1" = 75'

LFG-02-PH III





ISSUE	DATE	DESCRIPTION
A	JULY 2016	BIDDING DOCUMENTS

PREPARED BY: JUNOS REED, P.E.



# LANDFILL GAS MASTER PLAN

CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

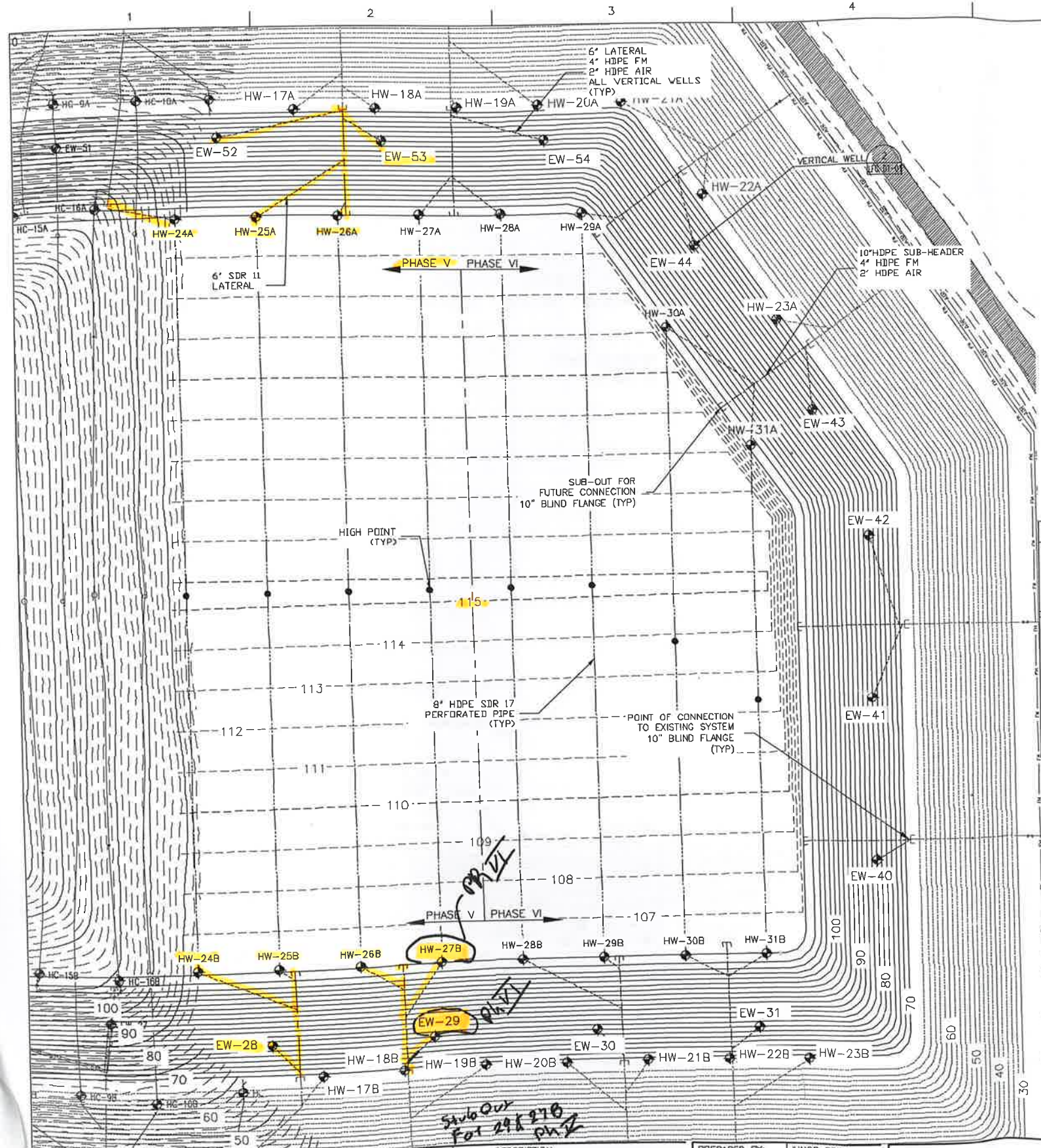
LFG MASTER PLAN PHASE IV



SCALE  
1" = 150'

LFG-02-PHIV





**PHASE V CONSTRUCTION TABLE**

ITEM DESCRIPTION	UNIT	QUANTITY
HORIZONTAL LFG WELLHEAD	EA	6
VERTICAL LFG WELLHEAD	EA	4
2" HDPE SDR 9 AIRLINE	LF	800
4" HDPE SDR 11 CONDENSATE FORCEMAIN	LF	800
6" HDPE SDR 11 LATERAL	LF	1,850
8" HDPE SDR 11 HORIZONTAL WELL	LF	1,830
10" HDPE SDR 11 SUB-HEADER	LF	475

**PHASE VI CONSTRUCTION TABLE**

ITEM DESCRIPTION	UNIT	QUANTITY
HORIZONTAL LFG WELLHEAD	EA	10
VERTICAL LFG WELLHEAD	EA	8
2" HDPE SDR 9 AIRLINE	LF	950
4" HDPE SDR 11 CONDENSATE FORCEMAIN	LF	950
6" HDPE SDR 11 LATERAL	LF	3,550
8" HDPE SDR 11 HORIZONTAL WELL	LF	2,630
10" HDPE SDR 11 SUB-HEADER	LF	1,075

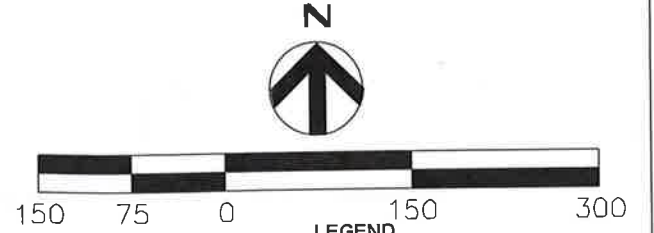
**PHASE V & VI VERTICAL WELL SCHEDULE**

Well No.	Northing	Easting	Ground Surface	Well Depth (ft)	Solid Pipe Length (ft)	Slotted Pipe Length (ft)	Gravel Pack (ft)
PHASE V	EW-28	1745755.33	625233.89	82	52	10	42
	EW-52	1746875.53	625183.48	85	55	10	45
	EW-53	1746870.45	625385.43	82	52	10	42
	EW-29	1745760.10	625433.84	82	52	10	42
PHASE VI	EW-30	1745764.26	625633.79	82	52	10	42
	EW-31	1745766.87	625833.78	82	52	10	42
	EW-40	1745974.38	625983.63	82	52	11	42
	EW-41	1746174.37	625981.59	82	52	12	42
	EW-42	1746374.36	625979.74	82	52	10	42
	EW-43	1746531.67	625911.60	82	52	10	42
	EW-44	1746738.08	625768.54	82	52	10	42
	EW-54	1746870.83	625585.43	82	52	10	42

**PHASE V & VI HORIZONTAL WELL SCHEDULE**

WELL ID	WELLHEAD A			HIGH POINT			WELLHEAD B			SOLID PIPE	PERFORATED PIPE	
	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION			
PHASE V	HW-24	1746775.30	625130.40	106	1746316.72	625094.65	116	1745847.37	625143.69	106	320	610
	HW-25	1746776.73	625230.39	106	1746320.30	625244.57	116	1745848.81	625243.68	106	320	610
	HW-26	1746778.16	625330.38	106	1746321.74	625344.56	116	1745850.24	625343.67	106	320	610
PHASE VI	HW-27	1746779.96	625430.37	106	1746323.17	625444.55	116	1745851.67	625443.66	106	320	610
	HW-28	1746781.03	625530.36	106	1746324.61	625544.54	116	1745853.10	625543.65	106	320	610
	HW-29	1746781.03	625630.37	106	1746326.03	625644.53	116	1745854.54	625643.64	106	320	610
	HW-30	1746638.41	625732.43	106	1746254.73	625745.56	114	1745855.97	625743.63	106	320	465
	HW-31	1746489.67	625834.57	106	1746181.08	625846.63	112	1745857.40	625843.62	106	320	312

- NOTES:
- HORIZONTAL WELLS TO BE PLACED WITHIN THE LIMITS AS SHOWN.
  - 10" HDPE SDR 11 SUB-HEADER SHALL CONNECT TO HEADER DIRECTLY VIA TEE FITTING AND 10" ISOLATION VALVE, ADJACENT TO CONDENSATE SUMPS AND ACCESS POINTS.
  - 4" FORCEMAIN & 2" AIR LINE NOT SHOWN WITH 10" SUB-HEADER FOR CLARITY. ALL SUB-HEADER LINES SHOWN INCLUDE FORCEMAIN AND AIR LINE IN THE SAME TRENCH.
  - 6" LATERAL LINES FOR VERTICAL WELLS SHALL BE CONSTRUCTED WITH 4" FORCEMAIN AND 2" AIRLINE IN THE SAME TRENCH.
  - ELEVATIONS REFERRED TO IN THE HORIZONTAL WELL SCHEDULE FOR THE WELLHEADS AND HIGH POINTS ARE GROUND ELEVATIONS.
  - QUANTITIES IN PHASE V & VI CONSTRUCTION TABLES ARE APPROXIMATE.



- LEGEND**
- PROPERTY BOUNDARY
  - LIMITS OF LINER
  - EXISTING CONTOURS (MAJOR)
  - EXISTING CONTOURS (MINOR)
  - PROPOSED CONTOURS (MAJOR)
  - PROPOSED CONTOURS (MINOR)
  - LFG COMPONENTS TO BE ABANDONED
  - EXISTING HORIZONTAL WELL
  - EXISTING LATERAL
  - EXISTING HEADER (SIZE VARIES)
  - PROPOSED ACCESS ROAD PAVEMENT
  - LCR-1 EXISTING LEACHATE CLEANOUT RISER
  - HC-7B EXISTING HORIZONTAL LFG WELLHEAD
  - EW-1 EXISTING LFG WELL
  - LCRS EXISTING LEACHATE CLEANOUT
  - CS-2 EXISTING CONDENSATE SUMP

- LFG COMPONENTS (CURRENT PHASE)**
- CS-14 CONDENSATE SUMP
  - LFG VALVES
  - HW-8B HORIZONTAL LFG WELLHEAD
  - EW-1 VERTICAL LFG WELLHEAD
  - AP-1 ACCESS POINT
  - HP HIGH POINT
  - HDPE SDR 11 LATERAL (SIZE VARIES)
  - 10" HDPE SDR 11 SUB-HEADER
  - 8" SDR 11 HORIZONTAL WELL
  - HDPE SDR 17 HEADER (SIZE VARIES)
  - 2" HDPE SDR 9 AIR LINE
  - 4" HDPE SDR 11 FORCEMAIN LINE



ISSUE	DATE	DESCRIPTION
A	JULY 2016	BIDDING DOCUMENTS

PREPARED BY: JUNOS REED, P.E.

**LANDFILL GAS MASTER PLAN**

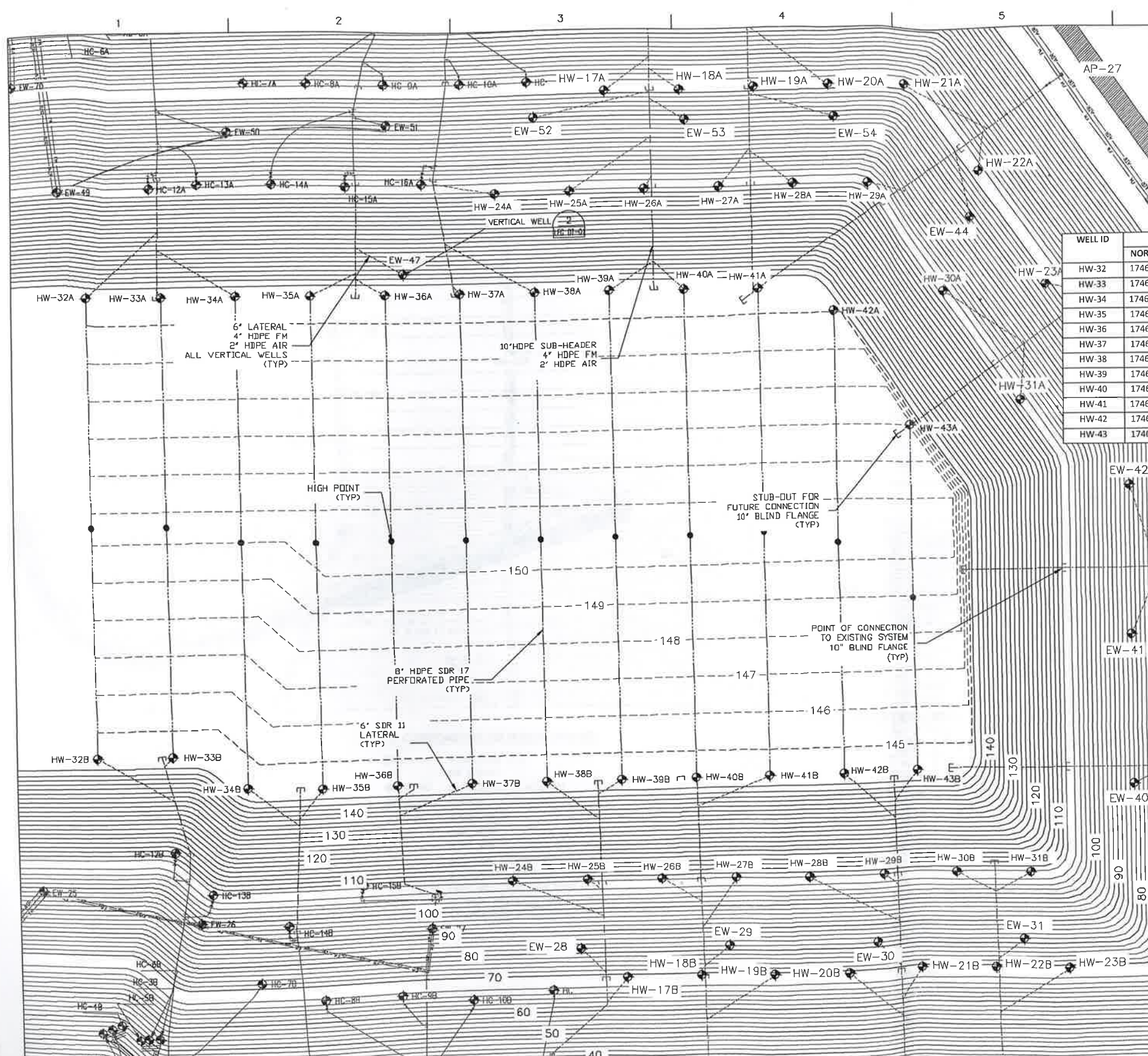
CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

**PHASE V & VI**

SCALE  
1" = 150'

LFG-03





**PHASE VII HORIZONTAL WELL SCHEDULE**

WELL ID	WELLHEAD A			HIGH POINT			WELLHEAD B			SOLID PIPE	PERFORATED PIPE
	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION	NORTHING	EASTING	ELEVATION		
HW-32	1746637.57	624582.32	144	1746336.70	624594.27	151	1746637.57	624582.32	144	320	300
HW-33	1746636.41	624682.34	144	1746336.69	624694.28	151	1746636.41	624682.34	144	320	300
HW-34	1746637.60	624782.34	144	1746316.65	624794.62	151	1746637.60	624782.34	144	320	340
HW-35	1746638.89	624882.33	144	1746315.29	624894.61	151	1746638.89	624882.33	144	320	340
HW-36	1746640.23	624982.32	144	1746316.72	624994.60	151	1746640.23	624982.32	144	320	340
HW-37	1746641.57	625082.31	144	1746316.72	625094.65	151	1746641.57	625082.31	144	320	340
HW-38	1746642.78	625182.30	144	1746316.72	625194.64	151	1746642.78	625182.30	144	320	340
HW-39	1746643.19	625282.31	144	1746319.59	625294.63	151	1746643.19	625282.31	144	320	340
HW-40	1746643.45	625382.32	144	1746319.85	625394.64	151	1746643.45	625382.32	144	320	340
HW-41	1746641.90	625482.35	144	1746322.97	625494.56	151	1746641.90	625482.35	144	320	340
HW-42	1746610.32	625583.57	144	1746308.00	625594.12	151	1746610.32	625583.57	144	320	300
HW-43	1746458.65	625685.05	144	1746233.10	625694.86	151	1746458.65	625685.05	144	320	150

**PHASE VII VERTICAL WELL SCHEDULE**

Well No.	Northing	Easting	Ground Surface	Well Depth (ft)	Solid Pipe Length (ft)	Slotted Pipe Length (ft)	Gravel Pack (ft)
EW-47	1746668.45	625005.78	142.0	106.7	10.0	96.7	99.7

**PHASE VII CONSTRUCTION TABLE**

ITEM DESCRIPTION	UNIT	QUANTITY
HORIZONTAL LFG WELLHEAD	EA	24
VERTICAL LFG WELLHEAD	EA	1
2" HDPE SDR 9 AIRLINE	LF	2,800
4" HDPE SDR 11 CONDENSATE FORCEMAIN	LF	2,800
6" HDPE SDR 11 LATERAL	LF	1,850
8" HDPE SDR 11 HORIZONTAL WELL	LF	7,600
10" HDPE SDR 11 SUB-HEADER	LF	2,700

**LEGEND**

- PROPERTY BOUNDARY
- LIMITS OF LINER
- - - 1080 EXISTING CONTOURS (MAJOR)
- - - 1080 EXISTING CONTOURS (MINOR)
- - - 1080 PROPOSED CONTOURS (MAJOR)
- - - 1080 PROPOSED CONTOURS (MINOR)
- ~ LFG COMPONENTS TO BE ABANDONED
- EXISTING HORIZONTAL WELL
- EXISTING LATERAL
- EXISTING HEADER (SIZE VARIES)
- PROPOSED ACCESS ROAD PAVEMENT
- LCR-1 EXISTING LEACHATE CLEANOUT RISER
- HC-7B EXISTING HORIZONTAL LFG WELLHEAD
- EW-1 EXISTING LFG WELL
- LCRS EXISTING LEACHATE CLEANOUT
- CS-2 EXISTING CONDENSATE SUMP

**LFG COMPONENTS (CURRENT PHASE)**

- CS-14 CONDENSATE SUMP
- ⊕ LFG VALVES
- HW-8B HORIZONTAL LFG WELLHEAD
- EW-1 VERTICAL LFG WELLHEAD
- AP-1 ACCESS POINT
- HP HIGH POINT
- HDPE SDR 11 LATERAL (SIZE VARIES)
- 10" HDPE SDR 11 SUB-HEADER
- 8" SDR 11 HORIZONTAL WELL
- HDPE SDR 17 HEADER (SIZE VARIES)
- AIR 2" HDPE SDR 9 AIR LINE
- FM 4" HDPE SDR 11 FORCEMAIN LINE

**NOTES:**

- HORIZONTAL WELLS TO BE PLACED WITHIN THE LIMITS AS SHOWN. 10" HDPE SDR 11 SUB-HEADER SHALL CONNECT TO HEADER DIRECTLY VIA TEE FITTING AND 10" ISOLATION VALVE, ADJACENT TO CONDENSATE SUMPS AND ACCESS POINTS.
- 4" FORCEMAIN & 2" AIR LINE NOT SHOWN WITH 10" SUB-HEADER FOR CLARITY. ALL SUB-HEADER LINES SHOWN INCLUDE FORCEMAIN AND AIR LINE IN THE SAME TRENCH.
- 8" LATERAL LINES FOR VERTICAL WELLS SHALL BE CONSTRUCTED WITH 4" FORCEMAIN AND 2" AIRLINE IN THE SAME TRENCH.
- ELEVATIONS REFERRED TO IN THE HORIZONTAL WELL SCHEDULE FOR THE WELLHEADS AND HIGH POINTS ARE GROUND ELEVATIONS.
- QUANTITIES IN PHASE VII CONSTRUCTION TABLES ARE APPROXIMATE.

ISSUE	DATE	DESCRIPTION	PREPARED BY:
A	JULY 2016	BIDDING DOCUMENTS	JUNOS REED, P.E.



**LANDFILL GAS MASTER PLAN**

CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

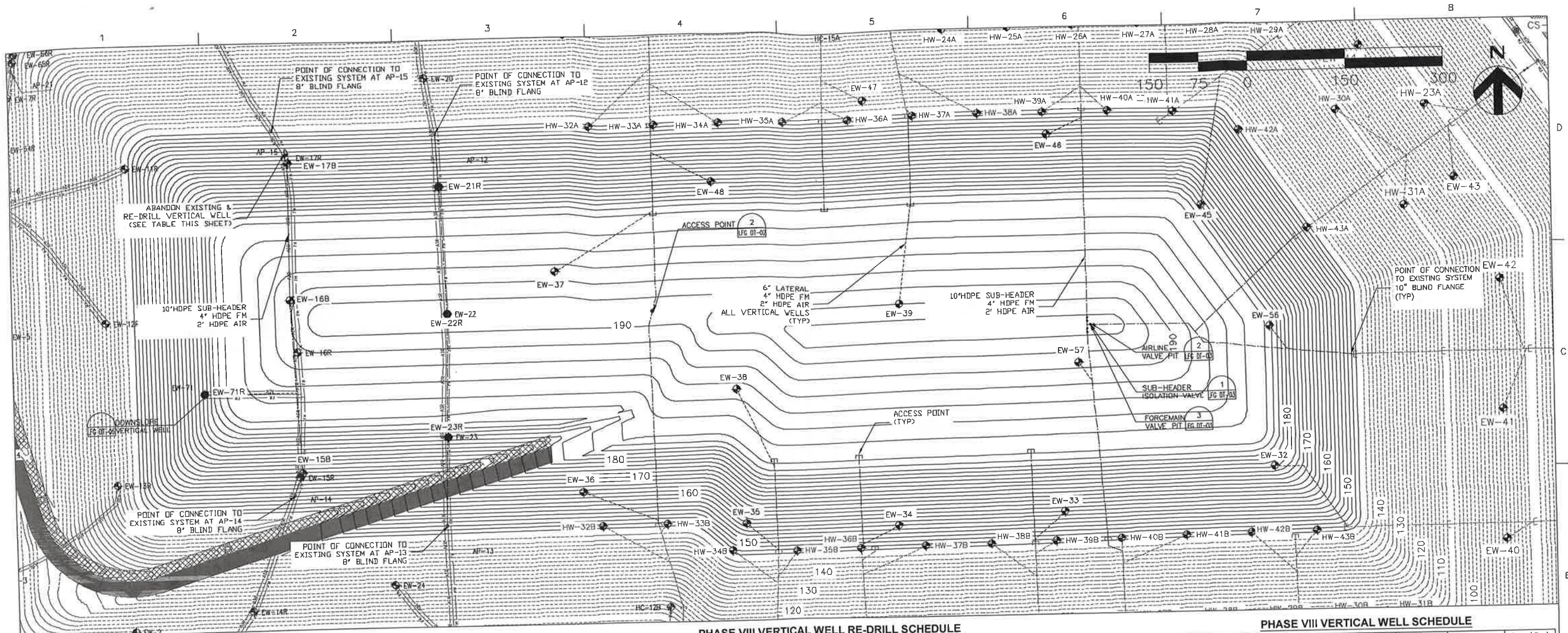
**PHASE VII**

SCALE  
1" = 150'

LFG-04







- LEGEND**
- PROPERTY BOUNDARY
  - LIMITS OF LINER
  - - - - - 1080 EXISTING CONTOURS (MAJOR)
  - - - - - 1080 EXISTING CONTOURS (MINOR)
  - - - - - 1080 PROPOSED CONTOURS (MAJOR)
  - - - - - 1080 PROPOSED CONTOURS (MINOR)
  - ~~~~~ LFG COMPONENTS TO BE ABANDONED
  - EXISTING HORIZONTAL WELL
  - EXISTING LATERAL
  - EXISTING HEADER (SIZE VARIES)
  - PROPOSED ACCESS ROAD PAVEMENT
  - LCR-1 EXISTING LEACHATE CLEANOUT RISER
  - HC-7B EXISTING HORIZONTAL LFG WELLHEAD
  - EW-1 EXISTING LFG WELL
  - LCRS EXISTING LEACHATE CLEANOUT
  - CS-2 EXISTING CONDENSATE SUMP

- LFG COMPONENTS (CURRENT PHASE)**
- CS-14 CONDENSATE SUMP
  - LFG VALVES
  - HW-8B HORIZONTAL LFG WELLHEAD
  - EW-1 VERTICAL LFG WELLHEAD
  - AP-1 ACCESS POINT
  - HP HIGH POINT
  - HDPE SDR 11 LATERAL (SIZE VARIES)
  - 10" HDPE SDR 11 SUB-HEADER
  - 8" SDR 11 HORIZONTAL WELL
  - HDPE SDR 17 HEADER (SIZE VARIES)
  - AIR AIR 2" HDPE SDR 9 AIR LINE
  - FH 4" HDPE SDR 11 FORCEMAIN LINE

**PHASE VIII VERTICAL WELL RE-DRILL SCHEDULE**

Well No.	Northing	Easting	Ground Surface (ft)	Well Depth (ft)	Solid Pipe Length (ft)	Slotted Pipe Length (ft)	Gravel Pack (ft)
EW-15B	1746113.2	624132.571	161.6	128.2	10.0	118.2	121.2
EW-16B	1746378.9	624118.3379	188.8	155.2	10.0	145.2	148.2
EW-17B	1746591.8	624119.2361	159.8	126.5	10.0	116.5	119.5
EW-21	1746550.9	624350.8659	174.3	141.1	10.0	131.1	134.1
EW-22	1746353	624359.4495	190.9	157.6	10.0	147.6	150.6
EW-23	1746164.1	624356.5332	179.5	146.5	10.0	136.5	139.5
EW-71	1746237.5	623984.8423	178.9	147.9	10.0	137.9	140.9


**PHASE VIII VERTICAL WELL SCHEDULE**

Well No.	Northing	Easting	Ground Surface (ft)	Well Depth (ft)	Solid Pipe Length (ft)	Slotted Pipe Length (ft)	Gravel Pack (ft)
EW-32	1746092.57	625629.71	156.7	120.1	10.0	110.1	113.1
EW-33	1746028.92	625306.44	151.6	113.9	10.0	103.9	106.9
EW-34	1746012.04	625050.81	156.0	118.8	10.0	108.8	111.8
EW-35	1746020.23	624813.49	150.5	115.8	10.0	105.8	108.8
EW-36	1746074.37	624562.89	163.0	128.3	10.0	118.3	121.3
EW-37	1746416.04	624525.79	188.4	153.6	10.0	143.6	146.6
EW-38	1746227.09	624802.27	187.6	152.7	10.0	142.7	145.7
EW-39	1746352.86	625057.07	191.0	155.3	10.0	145.3	148.3
EW-57	1746257.31	625331.44	190.3	153.0	10.0	143.0	146.0
EW-56	1746308.90	625625.00	157.5	121.9	10.0	111.9	114.9
EW-45	1746496.41	625523.06	145.8	112.5	10.0	102.5	105.5
EW-46	1746608.28	625288.15	156.7	121.4	10.0	111.4	114.4
EW-48	1746546.53	624769.92	175.3	141.0	10.0	131.0	134.0

**PHASE VIII CONSTRUCTION TABLE**

ITEM DESCRIPTION	UNIT	QUANTITY
VERTICAL LFG WELLHEAD	EA	20
2" HDPE SDR 9 AIRLINE	LF	5,710
4" HDPE SDR 11 CONDENSATE FORCEMAIN	LF	5,710
6" HDPE SDR 11 LATERAL	LF	1,725
10" HDPE SDR 11 SUB-HEADER	LF	3,985


- NOTES:**
- HORIZONTAL WELLS TO BE PLACED WITHIN THE LIMITS AS SHOWN.
  - 10" HDPE SDR 11 SUB-HEADER SHALL CONNECT TO HEADER DIRECTLY VIA TEE FITTING AND 10" ISOLATION VALVE, ADJACENT TO CONDENSATE SUMPS AND ACCESS POINTS.
  - 4" FORCEMAIN & 2" AIR LINE NOT SHOWN WITH 10" SUB-HEADER FOR CLARITY. ALL SUB-HEADER LINES SHOWN INCLUDE FORCEMAIN AND AIR LINE IN THE SAME TRENCH.
  - 6" LATERAL LINES FOR VERTICAL WELLS SHALL BE CONSTRUCTED WITH 4" FORCEMAIN AND 2" AIRLINE IN THE SAME TRENCH.
  - ELEVATIONS REFERRED TO IN THE HORIZONTAL WELL SCHEDULE FOR THE WELLHEADS AND HIGH POINTS ARE GROUND ELEVATIONS.
  - QUANTITIES IN PHASE VIII CONSTRUCTION TABLES ARE APPROXIMATE.



**Volusia County**  
FLORIDA

ISSUE	DATE	DESCRIPTION
A	5/19/2016	PROVIDED FOR DEP REVIEW

PREPARED BY: JUNOS REED, P.E.



**LANDFILL GAS MASTER PLAN**

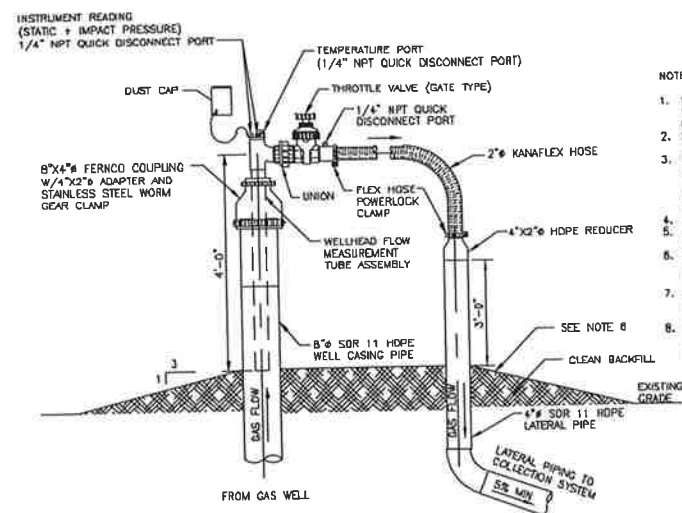
CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

**PHASE VIII**

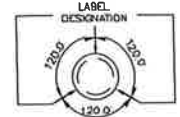
SCALE  
1" = 150'

LFG-05

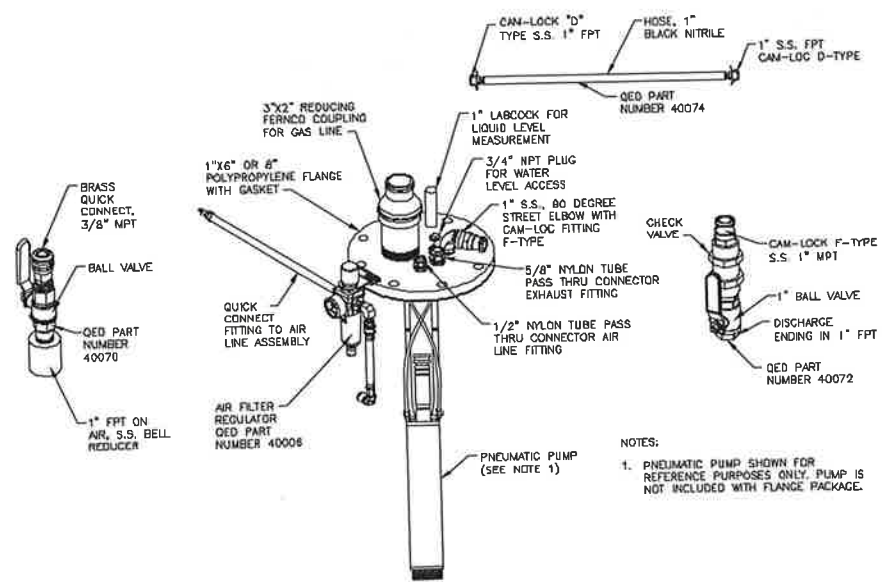




- NOTES:
1. WELLHEAD ASSEMBLY SHOWN REPRESENTS 2" LANDTEC VERTICAL ACCU-FLO WELLHEAD ASSEMBLY. QED WELLHEAD OR APPROVED EQUAL MAY BE SUBSTITUTED.
  2. PROVIDE HIGH VISIBILITY TAPE AROUND TOP 1-FOOT OF WELL CASING AND LATERAL PIPE.
  3. LABEL ALL WELL RISERS WITH IDENTIFICATION NUMBER WITH YELLOW OR WHITE PAINT AND STENCILS OR ADHESIVE LABEL AT 2" MINIMUM HEIGHT AND LOCATED IMMEDIATELY BELOW HIGH VISIBILITY TAPE ON 3 SIDES OFFSET BY APPROXIMATELY 120°.
  4. AIR AND FORCEMAIN LINES NOT SHOWN FOR CLARITY.
  5. WELLHEAD TO BE CONSTRUCTED TO ALLOW INSTALLATION OF DEWATERING PUMP.
  6. EXISTING GRADE TO BE SLOPED FOR POSITIVE DRAINAGE IN A 1'-0" SURROUNDING SURFACE EXPRESSION WITH A MAXIMUM OF 6" ABOVE SURROUNDING GRADE.
  7. QED PART NUMBER 40072 INCLUDED IN FLANGE PACKAGE DETAIL TO BE INSTALLED AT TERMINATING END OF FORCEMAIN PIPE AT THE WELLHEAD.
  8. QED PART NUMBER 40070 INCLUDED IN FLANGE PACKAGE DETAIL TO BE INSTALLED AT TERMINATING END OF AIRLINE PIPE AT THE WELLHEAD.

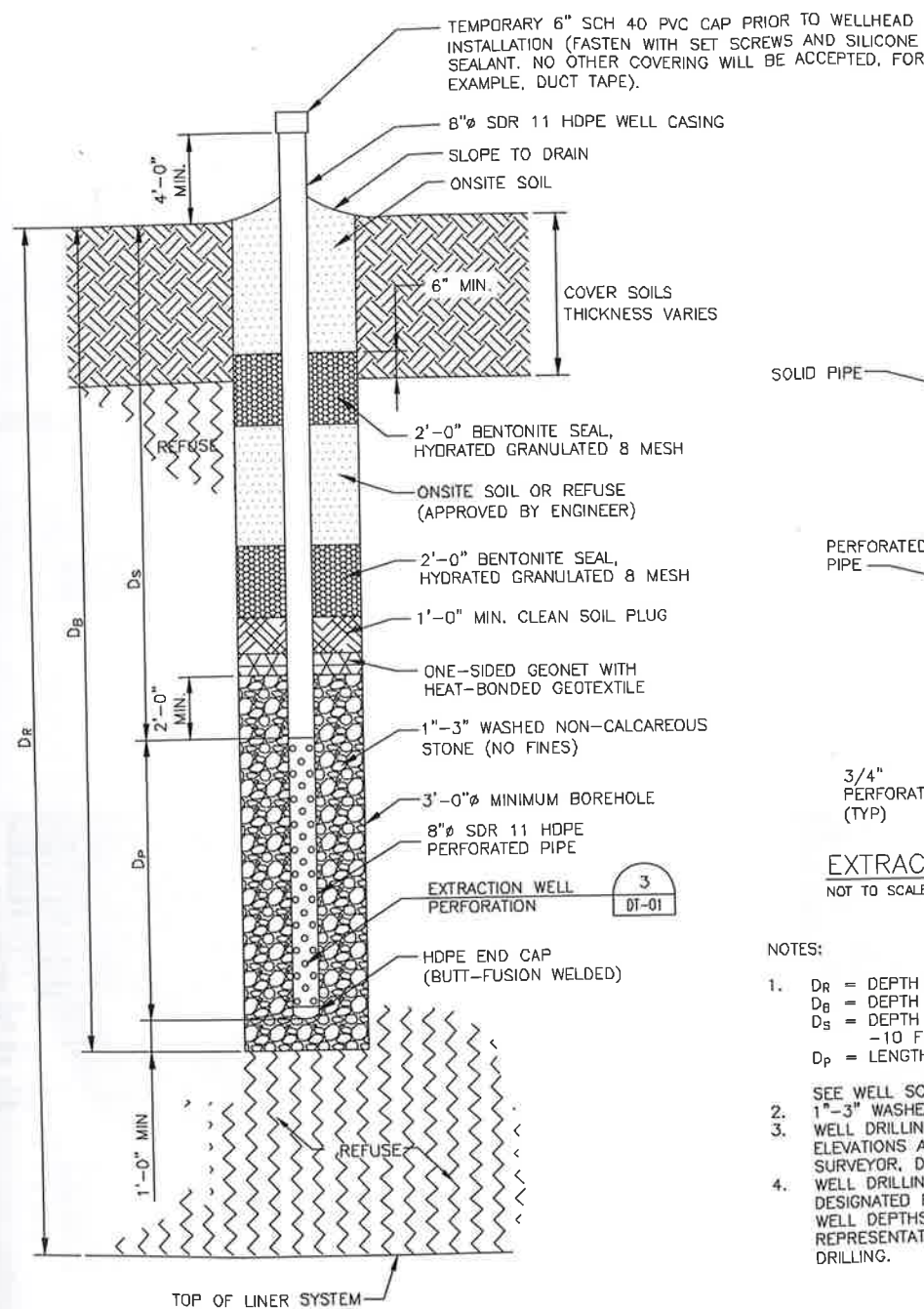


LANDTEC WELLHEAD ASSEMBLY  
NOT TO SCALE

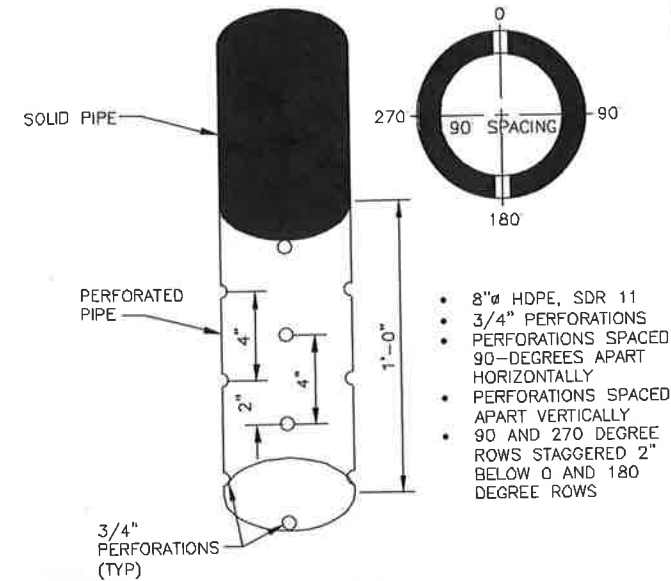


- NOTES:
1. PNEUMATIC PUMP SHOWN FOR REFERENCE PURPOSES ONLY. PUMP IS NOT INCLUDED WITH FLANGE PACKAGE.

FLANGE PACKAGE WITH PLUG  
NOT TO SCALE



VERTICAL WELL  
NOT TO SCALE



EXTRACTION WELL PERFORATIONS  
NOT TO SCALE

- NOTES:
1. DR = DEPTH OF REFUSE  
D<sub>B</sub> = DEPTH OF BORING  
D<sub>S</sub> = DEPTH OF SOLID PIPE (BELOW GRADE) - 10 FEET MINIMUM  
D<sub>P</sub> = LENGTH OF PERFORATED PIPE
  2. SEE WELL SCHEDULES.
  3. 1"-3" WASHED NON-CALCAREOUS STONE (NO FINES).
  4. WELL DRILLING WILL NOT COMMENCE UNTIL EXISTING GRADE ELEVATIONS ARE IDENTIFIED AND VERIFIED BY PROJECT SURVEYOR, DESIGN ENGINEER, AND COA REPRESENTATIVE. WELL DRILLING TABLE WILL BE MANAGED BY OWNER OR DESIGNATED REPRESENTATIVE TO ENSURE ONLY THE VERIFIED WELL DEPTHS ARE PRESENT, AND THAT DRILLER AND COA REPRESENTATIVE HAVE THE IDENTICAL INFORMATION PRIOR TO DRILLING.



ISSUE	DATE	DESCRIPTION	PROJECT ENGINEER: JUNOS REED, P.E.
A	JULY 2016	BIDDING DOCUMENTS	



# LANDFILL GAS MASTER PLAN

CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

## LANDFILL GAS DETAILS (1 OF 6)

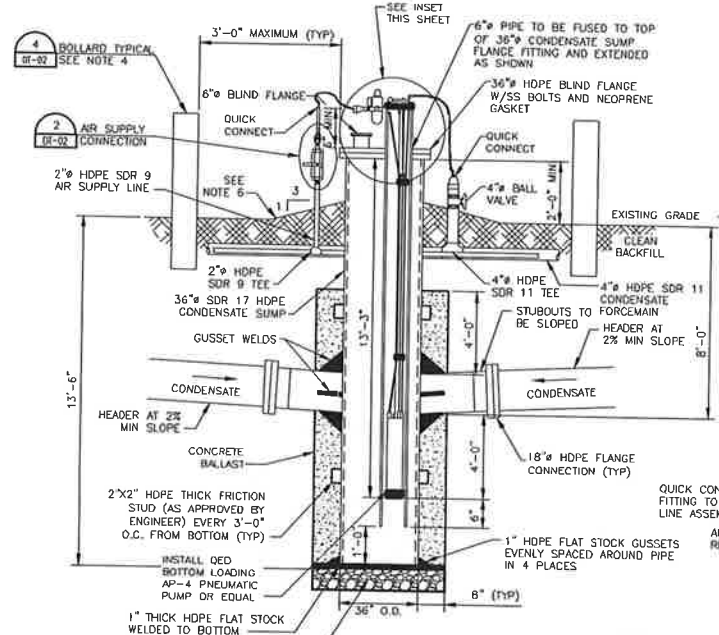
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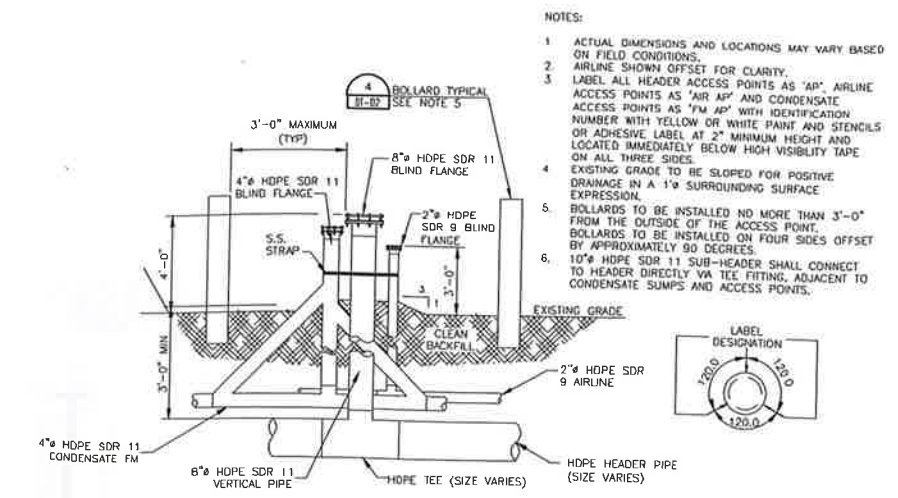
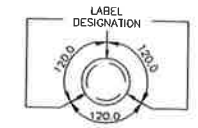
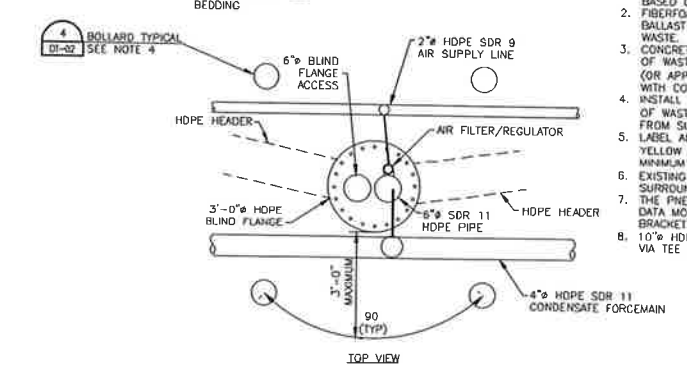


**AIR SUPPLY CONNECTION**  
NOT TO SCALE



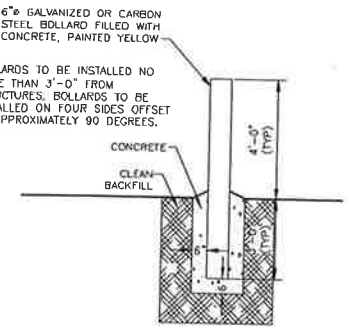
**CONDENSATE SUMP**  
NOT TO SCALE

- NOTES:
1. ORIENTATION OF HEADER LINES ENTERING CONDENSATE SUMP VARIES BASED ON FIELD CONDITIONS.
  2. FIBERFORM SCOTUBES FORM OR EQUAL AROUND SUMP FOR CONCRETE BALLAST TO BE CONSTRUCTED ON CONDENSATE SUMPS OUTSIDE OF WASTE.
  3. CONCRETE SHALL BE POURED AS BALLAST FOR SUMPS LOCATED OUTSIDE OF WASTE. CONCRETE CAN FILL THE ENTIRE EXCAVATION, OR A SCOTUBE (OR APPROVED EQUAL) CAN BE PLACED AROUND THE SUMP AND FILLED WITH CONCRETE AS SHOWN.
  4. INSTALL FOUR BOLLARDS AROUND CONDENSATE SUMPS LOCATED OUTSIDE OF WASTE. EACH BOLLARD TO BE 4'-0" TALL AND SPACED 3'-0" AWAY FROM SUMP. PAINT BOLLARDS SAFETY YELLOW.
  5. LABEL ALL CONDENSATE SUMPS WITH IDENTIFICATION NUMBER WITH YELLOW OR WHITE PAINT AND STENCILS OR ADHESIVE LABEL AT 2" MINIMUM HEIGHT AND LOCATED IMMEDIATELY BELOW HIGH VISIBILITY TAPE SURROUNDING SURFACE EXPRESSION.
  6. EXISTING GRADE TO BE SLOPED FOR POSITIVE DRAINAGE IN A 1% SURROUNDING SURFACE EXPRESSION.
  7. THE PNEUMATIC PUMP INSTALLATION SHALL ALSO INCLUDE A PUMP DATA MODULE. DATA MODULE SHALL BE INSTALLED TO SUMP FLANGE VIA BRACKET FITTING.
  8. 10" HDPE SDR 11 SUB-HEADER SHALL CONNECT TO HEADER DIRECTLY VIA TEE FITTING, ADJACENT TO CONDENSATE SUMPS AND ACCESS POINTS.

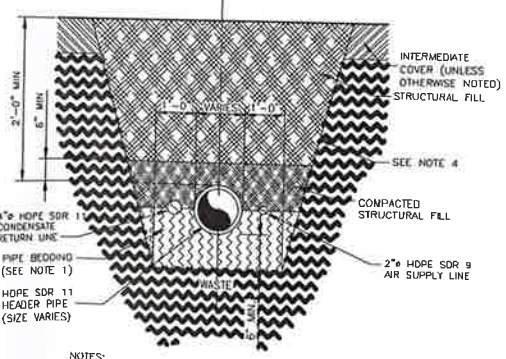


**ACCESS POINT**  
NOT TO SCALE

- NOTES:
1. ACTUAL DIMENSIONS AND LOCATIONS MAY VARY BASED ON FIELD CONDITIONS.
  2. AIRLINE SHOWN OFFSET FOR CLARITY.
  3. LABEL ALL HEADER ACCESS POINTS AS 'AP'. AIRLINE ACCESS POINTS AS 'AIR AP' AND CONDENSATE ACCESS POINTS AS 'CM AP' WITH IDENTIFICATION NUMBER WITH YELLOW OR WHITE PAINT AND STENCILS OR ADHESIVE LABEL AT 2" MINIMUM HEIGHT AND LOCATED IMMEDIATELY BELOW HIGH VISIBILITY TAPE ON ALL THREE SIDES.
  4. EXISTING GRADE TO BE SLOPED FOR POSITIVE DRAINAGE IN A 1% SURROUNDING SURFACE EXPRESSION.
  5. BOLLARDS TO BE INSTALLED NO MORE THAN 3'-0" FROM THE OUTSIDE OF THE ACCESS POINT. BOLLARDS TO BE INSTALLED ON FOUR SIDES OFFSET BY APPROXIMATELY 90 DEGREES.
  6. 10" HDPE SDR 11 SUB-HEADER SHALL CONNECT TO HEADER DIRECTLY VIA TEE FITTING, ADJACENT TO CONDENSATE SUMPS AND ACCESS POINTS.

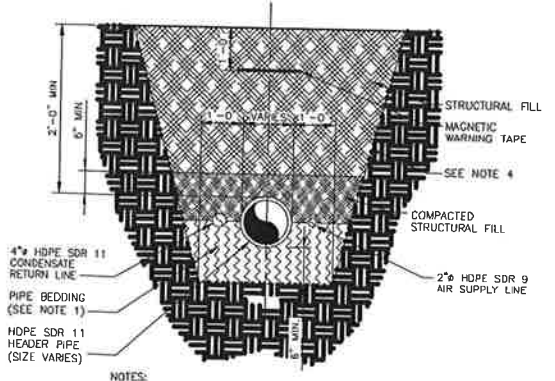


**BOLLARD TYPICAL**  
NOT TO SCALE



**TYPICAL LANDFILL GAS PIPE TRENCH (INSIDE WASTE)**  
NOT TO SCALE

- NOTES:
1. PIPE BEDDING TO BE COMPACTED BELOW AND TO THE MIDPOINT ON ALL PIPING.
  2. ACTUAL DEPTH OF TRENCH MAY VARY BASED ON FIELD CONDITIONS.
  3. ALL PIPES SHALL HAVE A MINIMUM OF 2" OF COVER UNLESS NOTED OTHERWISE.
  4. TRENCH WALLS MUST BE SLOPED OR HAVE APPROPRIATE SHORING PROVIDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY STANDARDS.

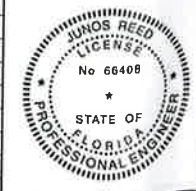


**TYPICAL LANDFILL GAS PIPE TRENCH (OUTSIDE WASTE)**  
NOT TO SCALE

- NOTES:
1. PIPE BEDDING TO BE COMPACTED BELOW AND TO THE MIDPOINT ON ALL PIPING.
  2. ACTUAL DEPTH OF TRENCH MAY VARY BASED ON FIELD CONDITIONS.
  3. ALL PIPES SHALL HAVE A MINIMUM OF 2" OF COVER UNLESS NOTED OTHERWISE.
  4. TRENCH WALLS MUST BE SLOPED OR HAVE APPROPRIATE SHORING PROVIDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY STANDARDS.



ISSUE	DATE	DESCRIPTION	PROJECT ENGINEER: JUNOS REED, P.E.
A	JULY 2016	BIDDING DOCUMENTS	

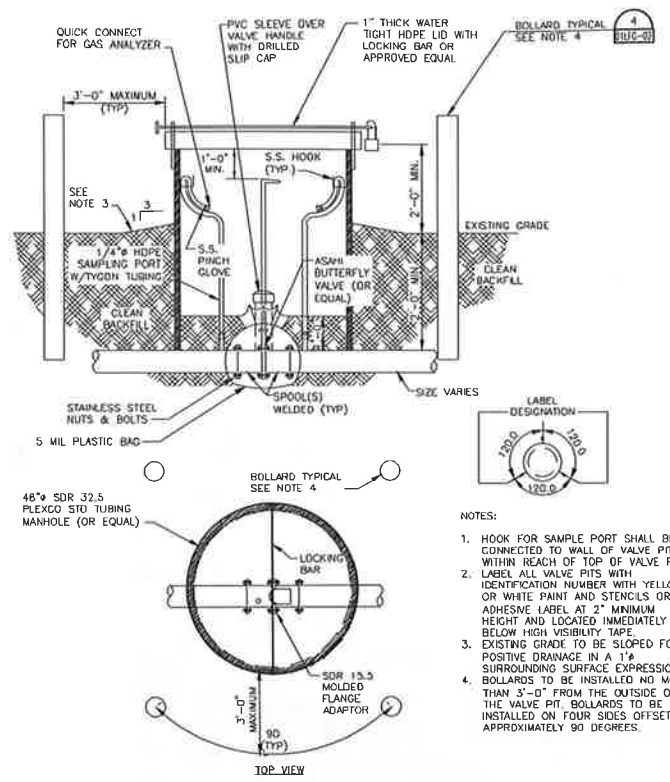


**LANDFILL GAS MASTER PLAN**  
CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

**LANDFILL GAS DETAILS**  
**(2 OF 6)**

NOT TO SCALE LFG-DT-02

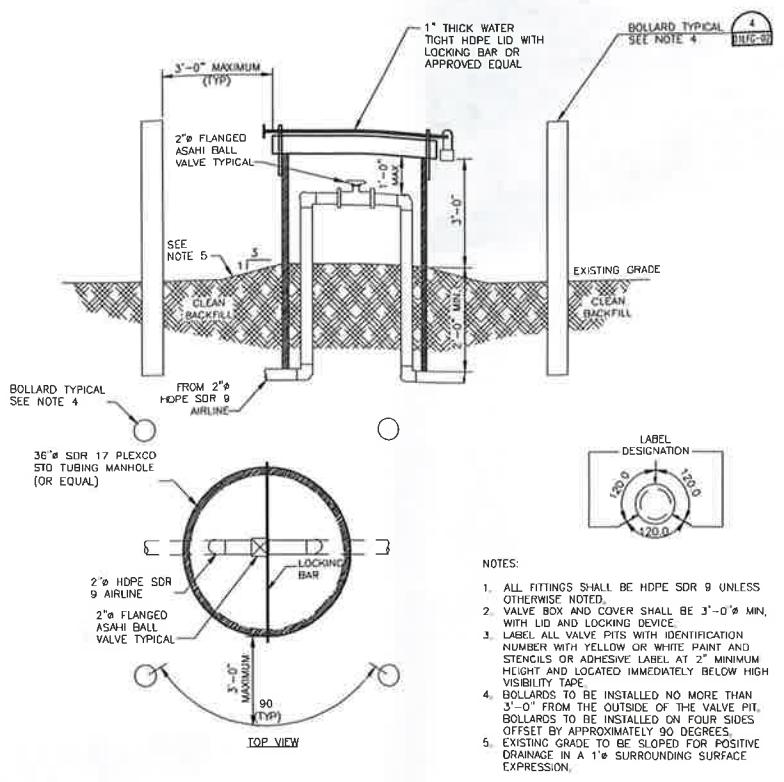




- NOTES:
1. HOOK FOR SAMPLE PORT SHALL BE CONNECTED TO WALL OF VALVE PIT WITHIN REACH OF TOP OF VALVE PIT.
  2. LABEL ALL VALVE PITS WITH IDENTIFICATION NUMBER WITH YELLOW OR WHITE PAINT AND STENCILS OR ADHESIVE LABEL AT 2" MINIMUM HEIGHT AND LOCATED IMMEDIATELY BELOW HIGH VISIBILITY TAPE.
  3. EXISTING GRADE TO BE SLOPED FOR POSITIVE DRAINAGE IN A 1% SURROUNDING SURFACE EXPRESSION.
  4. BOLLARDS TO BE INSTALLED NO MORE THAN 3'-0" FROM THE OUTSIDE OF THE VALVE PIT. BOLLARDS TO BE INSTALLED ON FOUR SIDES OFFSET BY APPROXIMATELY 90 DEGREES.

HEADER/ SUB-HEADER LINE ISOLATION VALVE PIT  
NOT TO SCALE

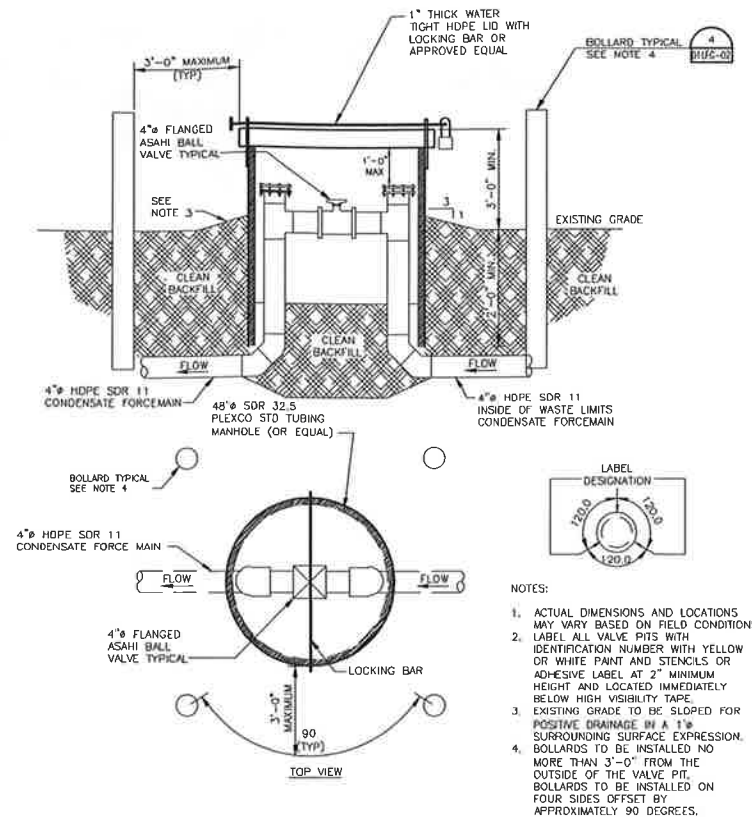
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- NOTES:
1. ALL FITTINGS SHALL BE HDPE SDR 9 UNLESS OTHERWISE NOTED.
  2. VALVE BOX AND COVER SHALL BE 3'-0" MIN. WITH LID AND LOCKING DEVICE.
  3. LABEL ALL VALVE PITS WITH IDENTIFICATION NUMBER WITH YELLOW OR WHITE PAINT AND STENCILS OR ADHESIVE LABEL AT 2" MINIMUM HEIGHT AND LOCATED IMMEDIATELY BELOW HIGH VISIBILITY TAPE.
  4. BOLLARDS TO BE INSTALLED NO MORE THAN 3'-0" FROM THE OUTSIDE OF THE VALVE PIT. BOLLARDS TO BE INSTALLED ON FOUR SIDES OFFSET BY APPROXIMATELY 90 DEGREES.
  5. EXISTING GRADE TO BE SLOPED FOR POSITIVE DRAINAGE IN A 1% SURROUNDING SURFACE EXPRESSION.

AIRLINE VALVE PIT  
NOT TO SCALE

2  
01-03



- NOTES:
1. ACTUAL DIMENSIONS AND LOCATIONS MAY VARY BASED ON FIELD CONDITIONS.
  2. LABEL ALL VALVE PITS WITH IDENTIFICATION NUMBER WITH YELLOW OR WHITE PAINT AND STENCILS OR ADHESIVE LABEL AT 2" MINIMUM HEIGHT AND LOCATED IMMEDIATELY BELOW HIGH VISIBILITY TAPE.
  3. EXISTING GRADE TO BE SLOPED FOR POSITIVE DRAINAGE IN A 1% SURROUNDING SURFACE EXPRESSION.
  4. BOLLARDS TO BE INSTALLED NO MORE THAN 3'-0" FROM THE OUTSIDE OF THE VALVE PIT. BOLLARDS TO BE INSTALLED ON FOUR SIDES OFFSET BY APPROXIMATELY 90 DEGREES.

FORCE MAIN VALVE PIT  
NOT TO SCALE

3  
01-03



ISSUE	DATE	DESCRIPTION	PROJECT ENGINEER:	JUNOS REED, P.E.
A	5/19/2016	PROVIDED FOR DEP REVIEW		

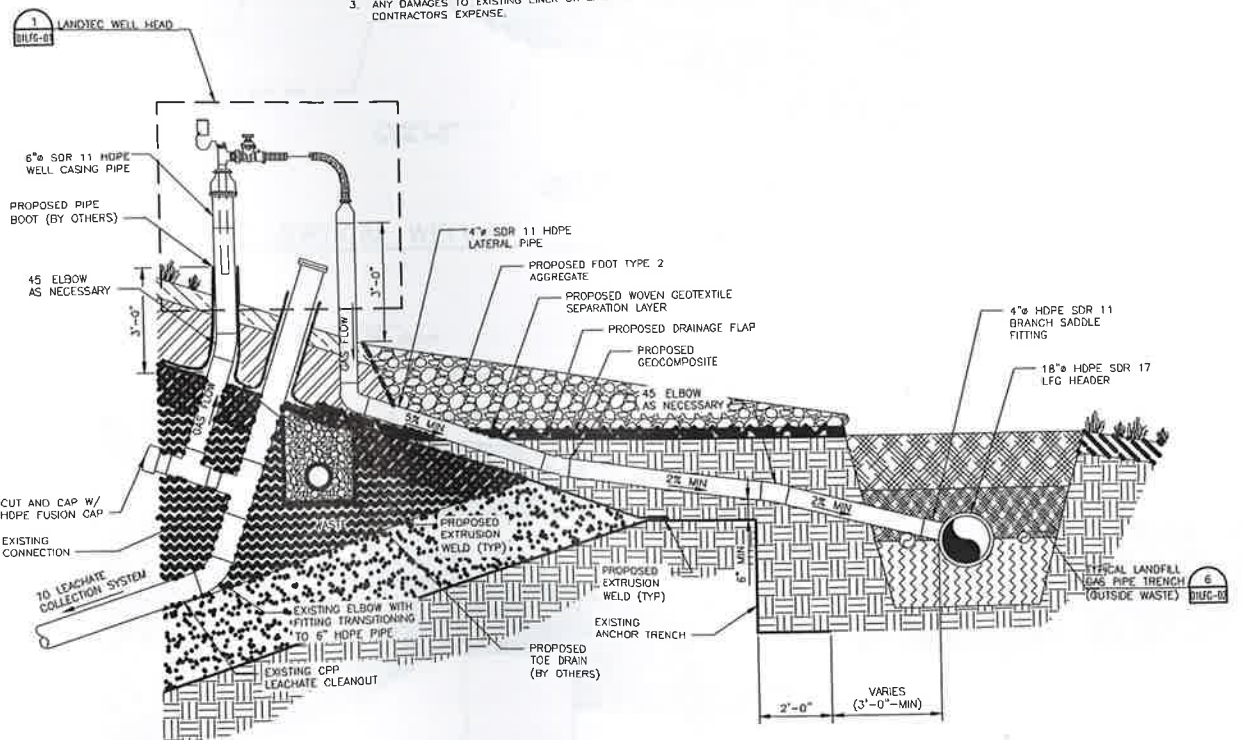


**LANDFILL GAS MASTER PLAN**  
CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

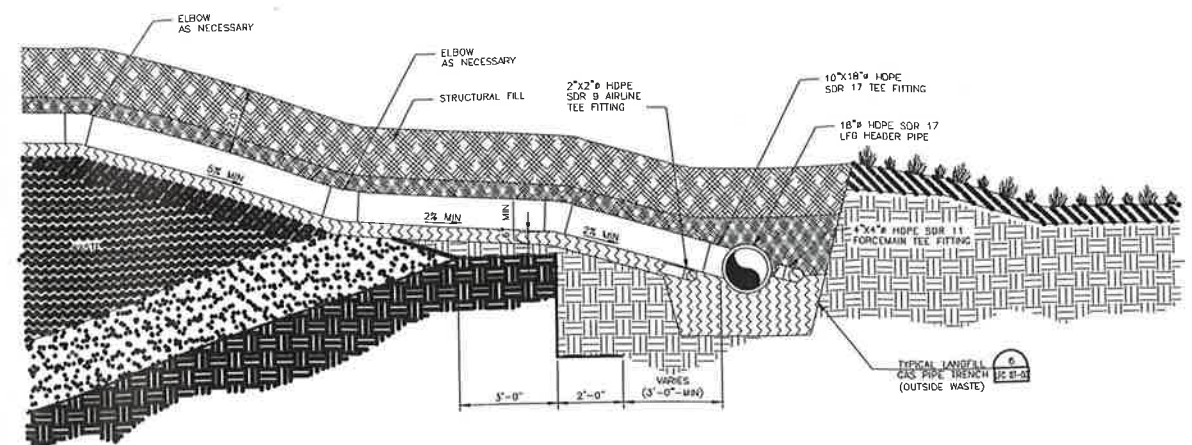
**LANDFILL GAS DETAILS**  
(3 OF 6)

NOT TO SCALE      LFG DT-03

- NOTES:
1. THE LFG HEADER AND COMPONENTS BETWEEN LANDTEC WELLHEAD AND EXISTING LEACHATE CLEANOUT ARE TO BE CONSTRUCTED PRIOR TO THE PLACEMENT OF THE LLDPE FINAL COVER. COMPONENTS BETWEEN THE LANDTEC WELLHEAD AND HEADER ARE TO BE CONSTRUCTED AFTER THE PLACEMENT OF THE LLDPE FINAL COVER.
  2. CONTRACTOR TO LOCATE EXISTING BOTTOM LINER SYSTEM ANCHOR TRENCH PRIOR TO CONSTRUCTION.
  3. ANY DAMAGES TO EXISTING LINER OR EXISTING PIPES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

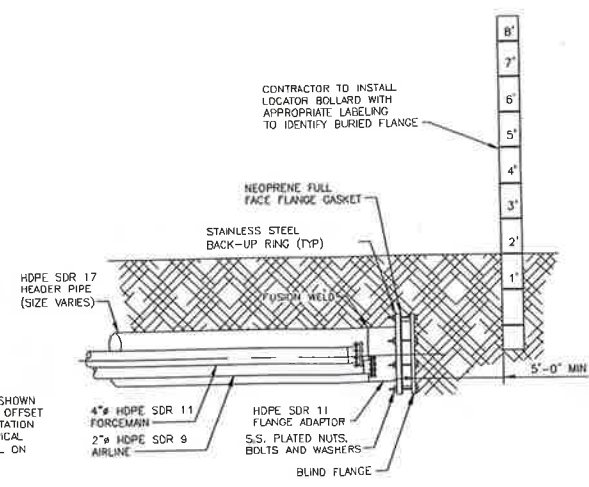


LEACHATE CLEAN-OUT HEADER CONNECTION  
NOT TO SCALE



- NOTES:
1. CONTRACTOR TO LOCATE EXISTING BOTTOM LINER SYSTEM ANCHOR TRENCH PRIOR TO CONSTRUCTION.
  2. ANY DAMAGES TO EXISTING LINER OR EXISTING PIPES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
  3. AIRLINE AND FORCEMAIN PIPE NOT SHOWN CONTINUOUS IN SECTION FOR CLARITY.

ANCHOR TRENCH CROSSING  
NOT TO SCALE

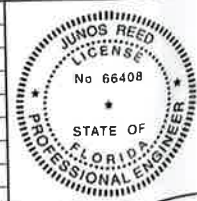


- NOTES:
1. AIRLINE AND FORCEMAIN PIPES SHOWN ON SAME SIDE OF HEADER AND OFFSET FOR CLARITY. DEPTH AND ORIENTATION SHALL BE CONSISTENT WITH TYPICAL TRENCH (OUTSIDE WASTE) DETAIL ON SHEET 01-LFG-02.

STUB-OUT AND DEPTH MARKER  
NOT TO SCALE



ISSUE	DATE	DESCRIPTION	PROJECT ENGINEER:	JUNOS REED, P.E.
A	JULY 2016	BIDDING DOCUMENTS		

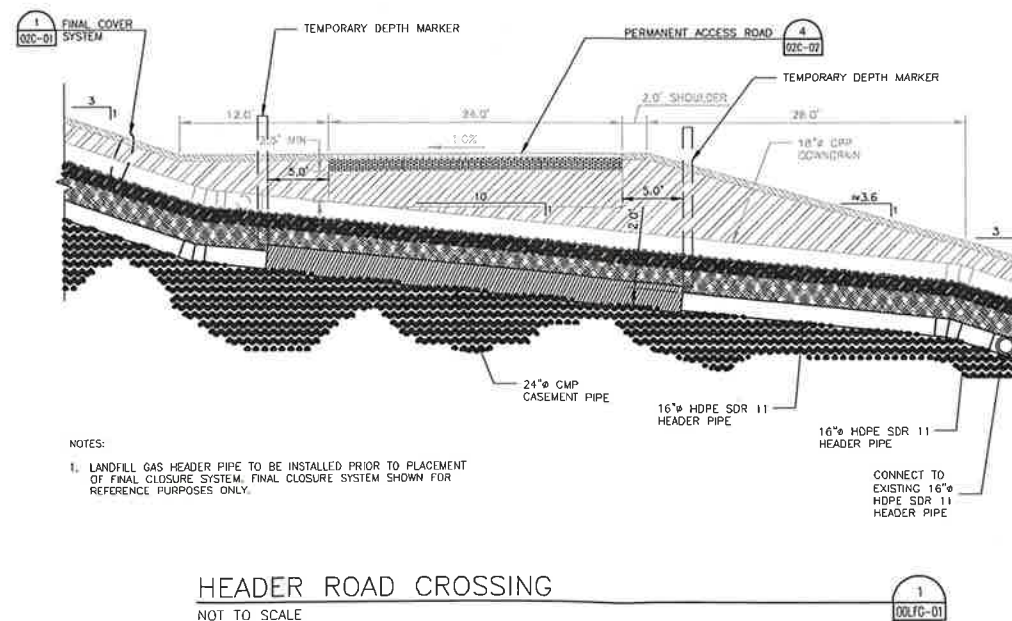
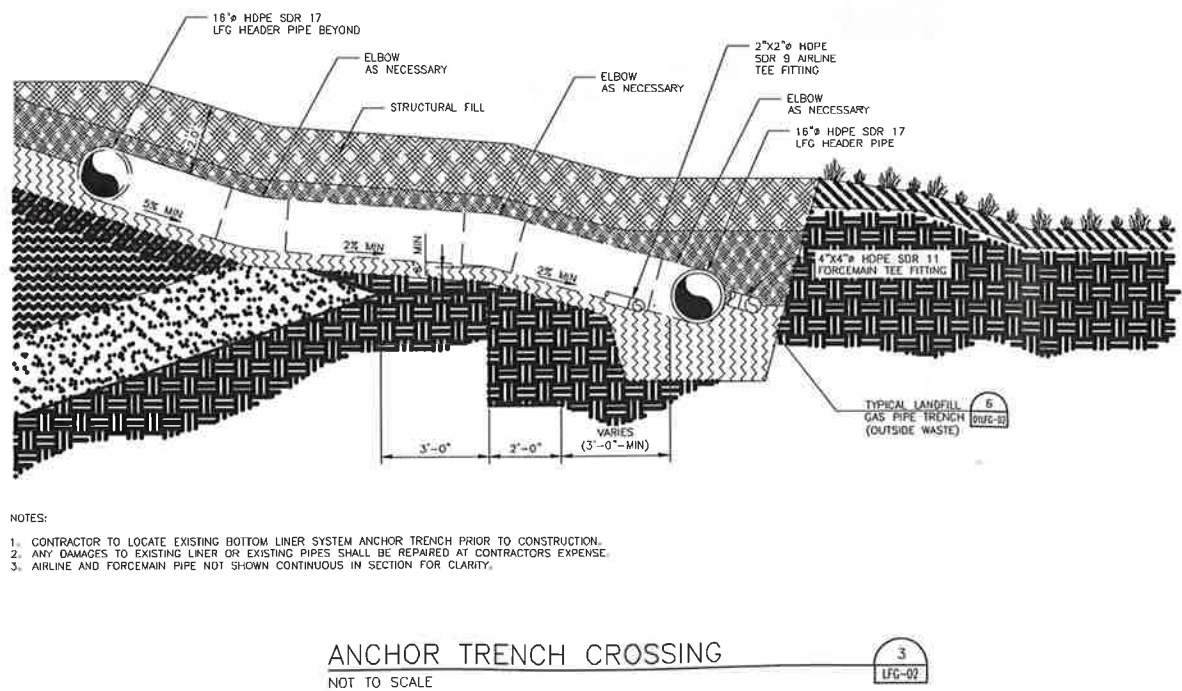
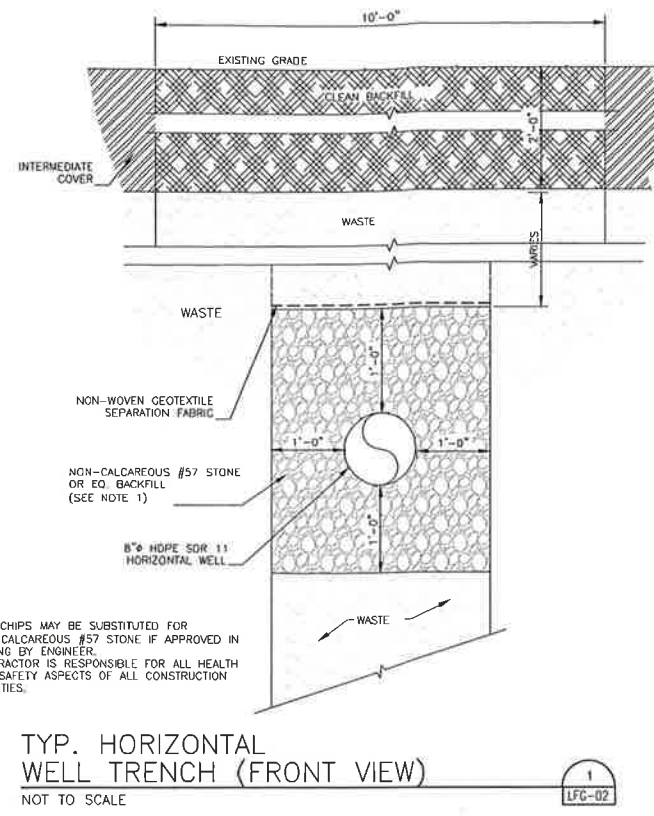
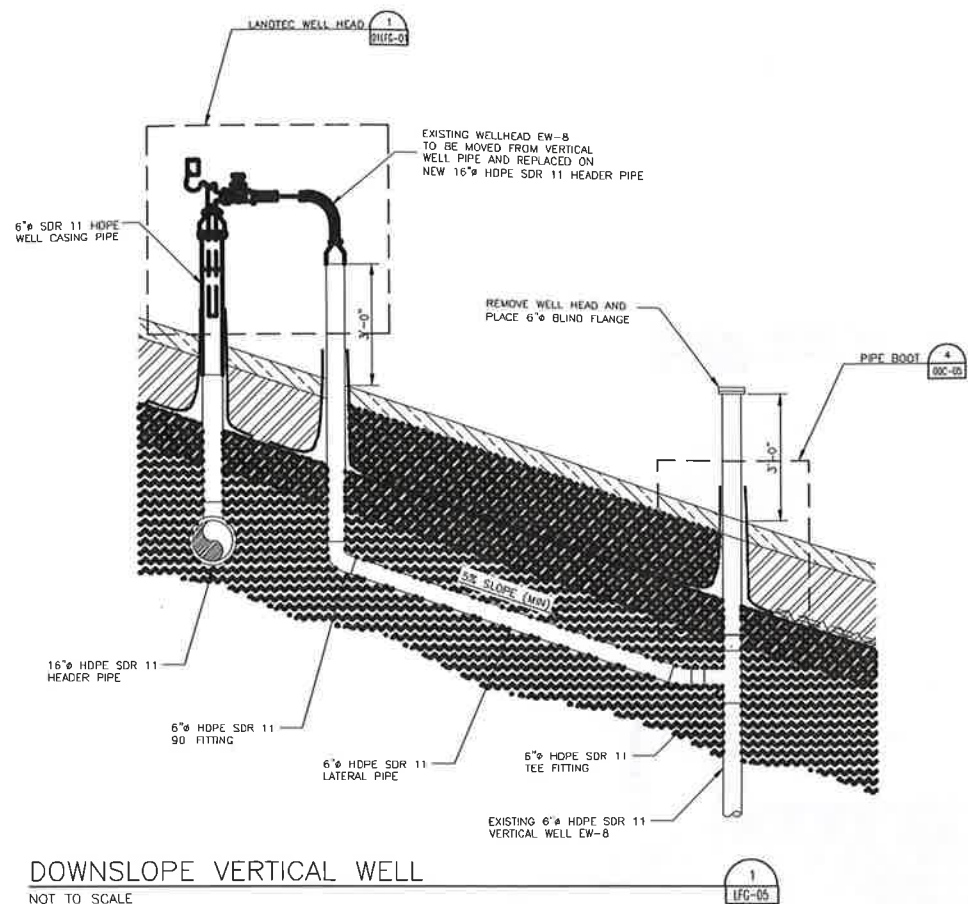


**LANDFILL GAS MASTER PLAN**  
CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

**LANDFILL GAS DETAILS (4 OF 6)**

NOT TO SCALE LFG DT-04



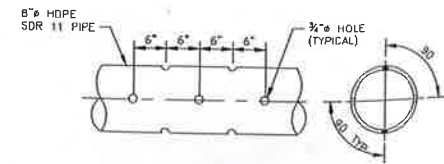


ISSUE	DATE	DESCRIPTION	PROJECT ENGINEER:
A	JULY 2016	BIDDING DOCUMENTS	JUNOS REED, P.E.

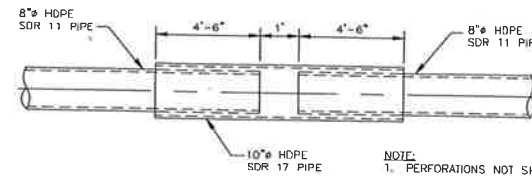


**LANDFILL GAS MASTER PLAN**  
CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA



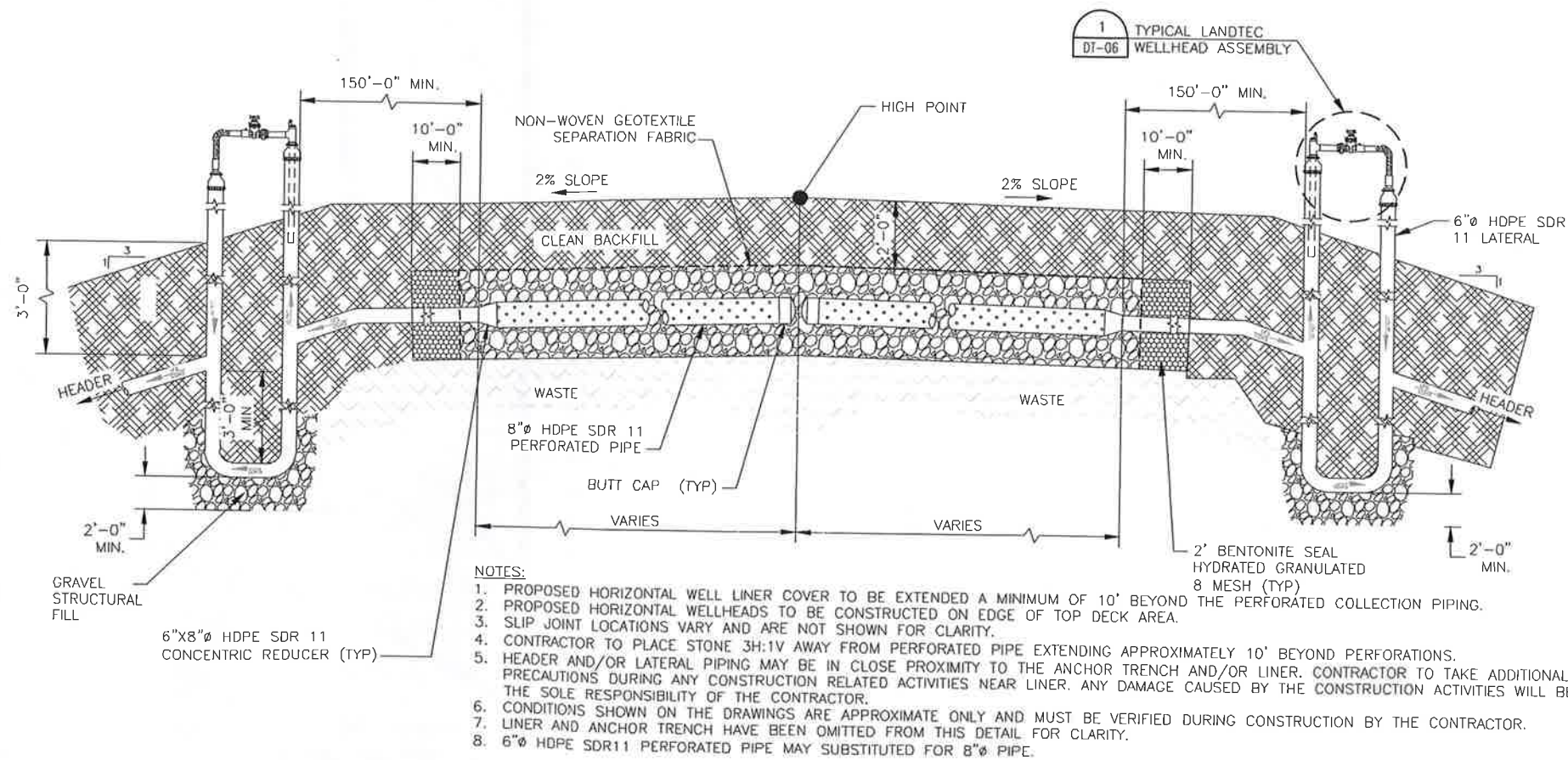


TYPICAL PERFORATED PIPE  
NOT TO SCALE



TYPICAL HORIZONTAL WELL SLIP JOINT  
NOT TO SCALE

- NOTE:
- PERFORATIONS NOT SHOWN FOR CLARITY. SEE DETAIL 4/01LF-06 FOR PERFORATED PIPE.
  - SLIP JOINTS TO BE ADDED EVERY 200' OF PERFORATED PIPE.
  - FOR 6" HORIZONTAL WELL PIPE, 8" SLIP JOINTS SHALL BE INSTALLED.

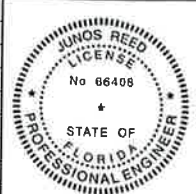


- NOTES:
- PROPOSED HORIZONTAL WELL LINER COVER TO BE EXTENDED A MINIMUM OF 10' BEYOND THE PERFORATED COLLECTION PIPING.
  - PROPOSED HORIZONTAL WELLHEADS TO BE CONSTRUCTED ON EDGE OF TOP DECK AREA.
  - SLIP JOINT LOCATIONS VARY AND ARE NOT SHOWN FOR CLARITY.
  - CONTRACTOR TO PLACE STONE 3H:1V AWAY FROM PERFORATED PIPE EXTENDING APPROXIMATELY 10' BEYOND PERFORATIONS.
  - HEADER AND/OR LATERAL PIPING MAY BE IN CLOSE PROXIMITY TO THE ANCHOR TRENCH AND/OR LINER. CONTRACTOR TO TAKE ADDITIONAL PRECAUTIONS DURING ANY CONSTRUCTION RELATED ACTIVITIES NEAR LINER. ANY DAMAGE CAUSED BY THE CONSTRUCTION ACTIVITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - CONDITIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND MUST BE VERIFIED DURING CONSTRUCTION BY THE CONTRACTOR.
  - LINER AND ANCHOR TRENCH HAVE BEEN OMITTED FROM THIS DETAIL FOR CLARITY.
  - 6" HDPE SDR11 PERFORATED PIPE MAY SUBSTITUTED FOR 8" PIPE.

HIGH POINT HORIZONTAL WELL  
CROSS-SECTION  
NOT TO SCALE



ISSUE	DATE	DESCRIPTION	PROJECT ENGINEER:
A	JULY 2016	BIDDING DOCUMENTS	JUNOS REED, P.E.



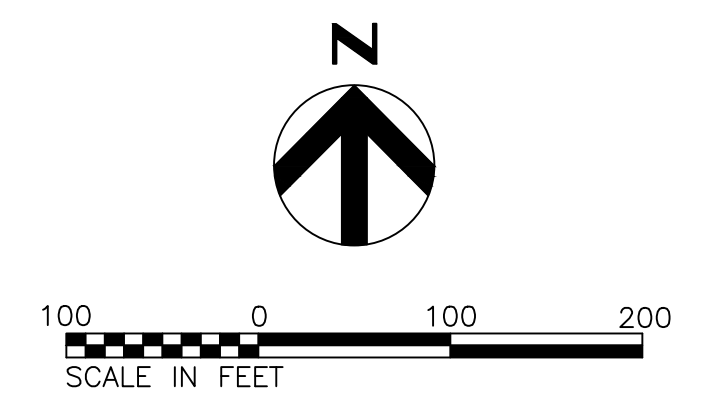
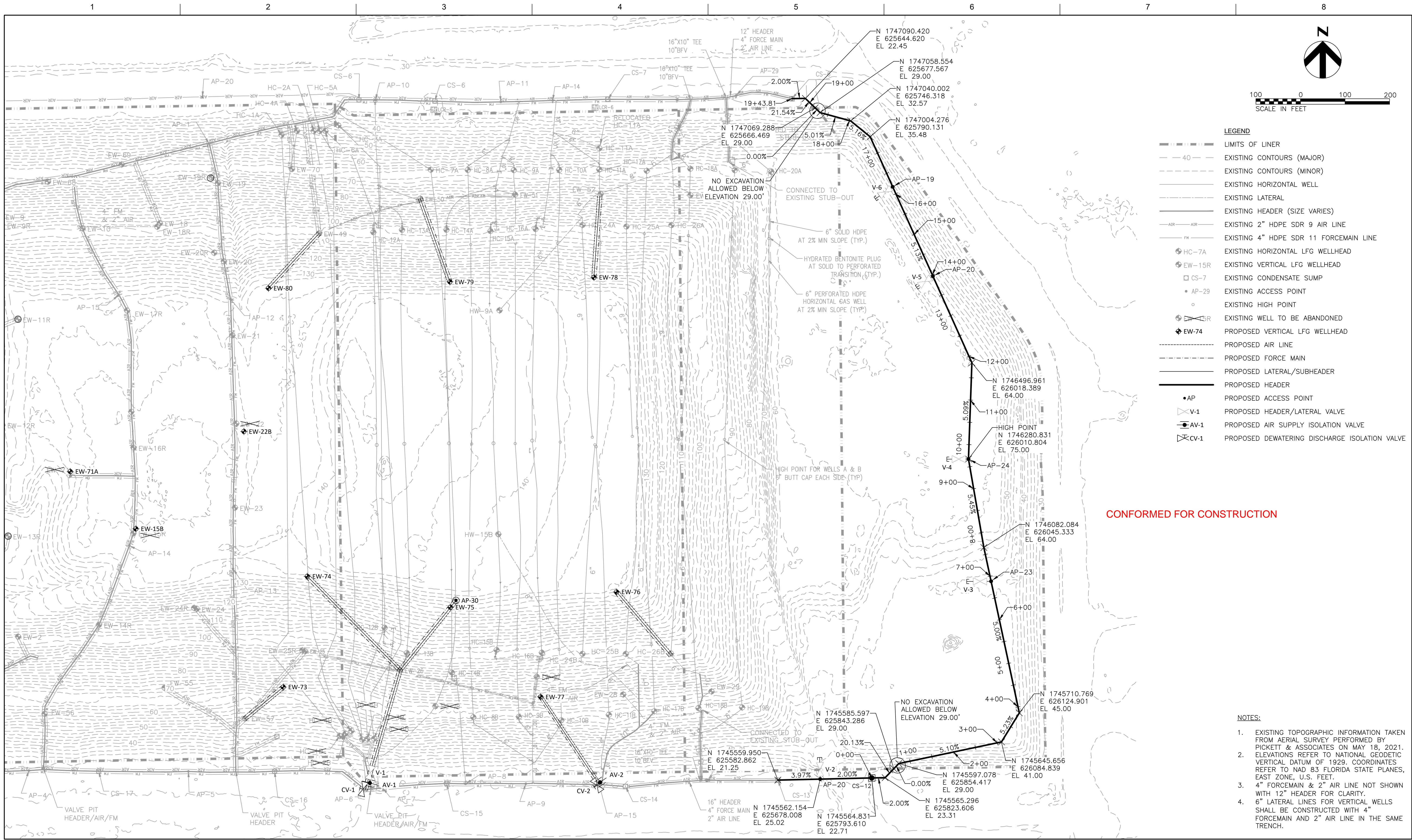
**LANDFILL GAS MASTER PLAN**  
CLASS I ACTIVE AREA  
TOMOKA FARMS ROAD LANDFILL  
VOLUSIA COUNTY, FLORIDA

**LANDFILL GAS DETAILS  
(6 OF 6)**

NOT TO SCALE

LFG DT-06

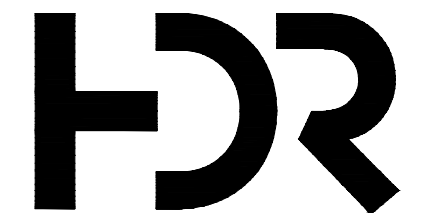




- LEGEND**
- LIMITS OF LINER
  - - - 40 - - - EXISTING CONTOURS (MAJOR)
  - - - EXISTING CONTOURS (MINOR)
  - - - EXISTING HORIZONTAL WELL
  - - - EXISTING LATERAL
  - - - EXISTING HEADER (SIZE VARIES)
  - - - EXISTING 2" HDPE SDR 9 AIR LINE
  - - - EXISTING 4" HDPE SDR 11 FORCEMAIN LINE
  - HC-7A EXISTING HORIZONTAL LFG WELLHEAD
  - EW-15R EXISTING VERTICAL LFG WELLHEAD
  - CS-7 EXISTING CONDENSATE SUMP
  - AP-29 EXISTING ACCESS POINT
  - EXISTING HIGH POINT
  - ⊕ EX-15R EXISTING WELL TO BE ABANDONED
  - ⊕ EW-74 PROPOSED VERTICAL LFG WELLHEAD
  - - - PROPOSED AIR LINE
  - - - PROPOSED FORCE MAIN
  - - - PROPOSED LATERAL/SUBHEADER
  - - - PROPOSED HEADER
  - AP PROPOSED ACCESS POINT
  - △ V-1 PROPOSED HEADER/LATERAL VALVE
  - AV-1 PROPOSED AIR SUPPLY ISOLATION VALVE
  - △ CV-1 PROPOSED DEWATERING DISCHARGE ISOLATION VALVE

**CONFORMED FOR CONSTRUCTION**

- NOTES:**
1. EXISTING TOPOGRAPHIC INFORMATION TAKEN FROM AERIAL SURVEY PERFORMED BY PICKETT & ASSOCIATES ON MAY 18, 2021. ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929. COORDINATES REFER TO NAD 83 FLORIDA STATE PLANES, EAST ZONE, U.S. FEET.
  2. 4" FORCEMAIN & 2" AIR LINE NOT SHOWN WITH 12" HEADER FOR CLARITY.
  3. 6" LATERAL LINES FOR VERTICAL WELLS SHALL BE CONSTRUCTED WITH 4" FORCEMAIN AND 2" AIR LINE IN THE SAME TRENCH.

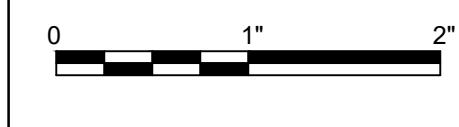


PROJECT MANAGER	M. ROBERTS, P.E.	
DRAWN BY	J. RAYMOND	
CHECKED BY	K. PERERA, P.E.	
ISSUE	DATE	DESCRIPTION
B	8/24/21	CONFORMED CONSTRUCTION DRAWINGS

PROJECT NUMBER	10166567
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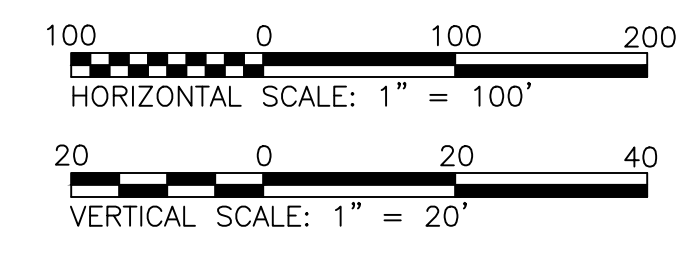
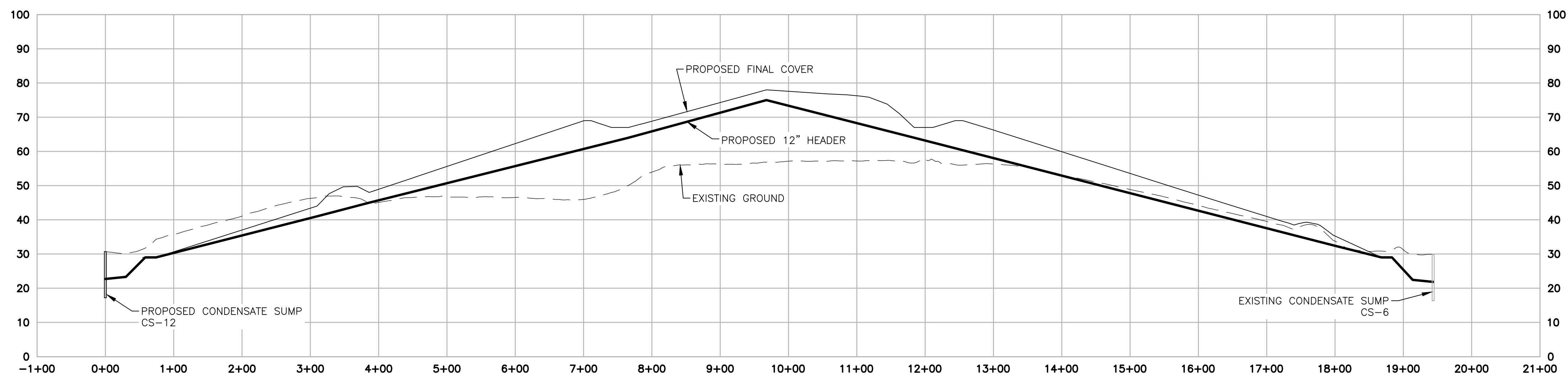


**TOMOKA FARMS ROAD LANDFILL  
PHASE VI CONSTRUCTION DRAWINGS  
VOLUSIA COUNTY, FLORIDA**



FILENAME | Gas Well Staking - August 2021.dwg | SHEET  
SCALE | 1" = 100' | 1





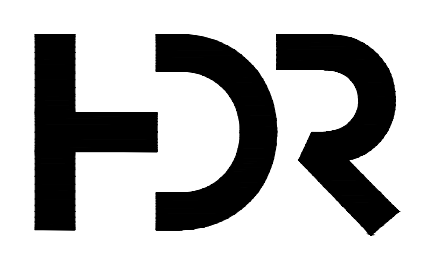
**VERTICAL WELL SCHEDULE**

Well	Northing (ft)	Easting (ft)	Top of Protective Cover Elevation (ft)	Existing Ground Elevation (ft)	Calculated Waste Depth (ft) D <sub>R</sub>	Calculated Borehole Depth (ft) D <sub>B</sub>	Solid Pipe (ft) D <sub>S</sub>	Slotted Pipe (ft) D <sub>P</sub>	Gravel Pack (ft)	Description
EW-15B	1746124.07	624141.80	18.36	136.21	117.8	<b>104.8</b>	15	88.8	91.8	Re-Drilled
EW-22B	1746342.61	624384.19	18.88	136.53	117.7	<b>104.7</b>	15	88.7	91.7	Re-Drilled
EW-71A	1746252.56	623994.40	16.48	130.77	114.3	<b>101.3</b>	15	85.3	88.3	Re-Drilled
EW-73	1745768.78	624472.54	18.80	69.49	50.7	<b>37.7</b>	15	21.7	24.7	New
EW-74	1746017.28	624526.49	19.38	135.05	115.7	<b>102.7</b>	15	86.7	89.7	New
EW-75	1745947.90	624847.81	21.42	130.54	109.1	<b>96.1</b>	15	80.1	83.1	New
EW-76	1745982.31	625220.71	20.92	132.82	111.9	<b>98.9</b>	15	82.9	85.9	New
EW-77	1745746.77	625050.20	23.51	77.02	53.5	<b>40.5</b>	15	24.5	27.5	New
EW-78	1746688.52	625170.01	17.31	126.05	108.7	<b>95.7</b>	15	79.7	82.7	New
EW-79	1746678.58	624846.59	18.60	134.06	115.5	<b>102.5</b>	15	86.5	89.5	New
EW-80	1746664.34	624439.48	19.73	132.59	112.9	<b>99.9</b>	15	83.9	86.9	New

CONFORMED FOR CONSTRUCTION

NOTE: WELL SCHEDULE PREPARED BASED ON VERTICAL WELL DETAIL 2 SHOWN IN LANDFILL GAS DETAILS (1 OF 6) IN LANDFILL GAS MASTER PLAN DATED JULY 2016.

NOTES:  
 1. ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929. COORDINATES REFER TO NAD 83 FLORIDA STATE PLANES, EAST ZONE, U.S. FEET.



B	8/24/21	CONFORMED CONSTRUCTION DRAWINGS
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	M. ROBERTS, P.E.
DRAWN BY	J. RAYMOND
CHECKED BY	K. PERERA, P.E.
PROJECT NUMBER	10166567



**TOMOKA FARMS ROAD LANDFILL  
 PHASE VI CONSTRUCTION DRAWINGS  
 VOLUSIA COUNTY, FLORIDA**

**HEADER PROFILE AND WELL SCHEDULE**



FILENAME | Gas Well Staking - August 2021.dwg  
 SCALE | AS SHOWN

**ATTACHMENT B**  
**Completed Well Drilling Logs**

**SUBMITTAL FORM**

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**General Information**

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Project Name:	Volusia County Landfill Phase IV 2021 LFG Expansion 1990 Tomoka Farms Road, Port Orange, FL 32128	Number: 02-R
Project Number: 12221017.00		Date: 10/15/2021

Submittal Description:  
Revised Well Drilling Logs per Engineer's review comments received on 10/11/2021.

---

**Contractor's Certification**

---

Contract Drawing:  
Specification No:

This Submittal has been reviewed for the accuracy of the content. It is my opinion that the material and/or equipment are in compliance with the Contract Drawings and Technical Specifications. The information contained herein has been fully coordinated with all involved subcontractors.

Contractor: SCS Field Services / Pierce Wu

Signed: *Pierce Wu*

Date: 10/15/2021

---

**Engineer's Review**

---

No Exceptions Taken	<input type="checkbox"/>	Engineer: _____
Make Corrections Noted	<input type="checkbox"/>	Signed: _____
Amend and Resubmit	<input type="checkbox"/>	Date: _____
Rejected - See Remarks	<input type="checkbox"/>	

Approval is only for conformance with the design concept of the project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication process or to techniques of construction and for coordination of the work of all trades.

---





# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

DATE: 9/4/2021

PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

DRILLING	Well Asbuild																																																																																																																															
<p><b>EW-15B</b> WELL NUMBER OR NAME</p> <p>LINEAR FEET OF DRILLING _____</p> <p>LINEAR FEET OF COMPLETION _____</p> <p>37 LINEAR FEET OF ABANDONMENT _____</p> <p><b>Weather conditions: Sunny</b>                      Site conditions: Dry                      _____                      abandoned</p> <p>NOTES: Sand layer at 34 to 37' absdon well due to cave-in. Moved well 15' to the east.</p>	<p>Backfill Material 2' sand</p> <p>Benseal plug 2' plug</p> <p>Length of Solid 15'</p> <p>Backfill Material 5'</p> <p>Benseal plug 2' plug</p> <p>Isolation Layer geo ring 1' soil</p> <p>Length of Gravel Pack 25'</p> <p>Length of Perf. Pipe 22'</p> <p>Style of Pipe 8" cpvc 80</p> <p>Bottom of bore 38'</p> <p>Bore diameter 36"</p>																																																																																																																															
MONITORING LOG	Well Boring Log																																																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Time</th> <th>OXYGEN</th> <th>H2S</th> <th>LEL / CO</th> </tr> </thead> <tbody> <tr><td>7:00</td><td>20.9</td><td>0</td><td>0/0</td></tr> <tr><td>8:00</td><td>20.9</td><td>0</td><td>0/0</td></tr> <tr><td>9:00</td><td>20.9</td><td>0</td><td>0/0</td></tr> <tr><td>10:00</td><td></td><td></td><td></td></tr> <tr><td>11:00</td><td></td><td></td><td></td></tr> <tr><td>12:00</td><td></td><td></td><td></td></tr> <tr><td>1:00</td><td></td><td></td><td></td></tr> <tr><td>2:00</td><td></td><td></td><td></td></tr> <tr><td>3:00</td><td></td><td></td><td></td></tr> <tr><td>4:00</td><td></td><td></td><td></td></tr> <tr><td>5:00</td><td></td><td></td><td></td></tr> <tr><td>6:00</td><td></td><td></td><td></td></tr> </tbody> </table>	Time	OXYGEN	H2S	LEL / CO	7:00	20.9	0	0/0	8:00	20.9	0	0/0	9:00	20.9	0	0/0	10:00				11:00				12:00				1:00				2:00				3:00				4:00				5:00				6:00				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth</th> <th>Composition</th> <th>Degree of Decomp.</th> <th>Degree of Moisture</th> <th>Temp</th> </tr> </thead> <tbody> <tr><td>0-10</td><td>sand msw</td><td>slight</td><td>dry</td><td>98</td></tr> <tr><td>10-20</td><td>msw sand</td><td>slight</td><td>dry</td><td>108</td></tr> <tr><td>20-30</td><td>sand</td><td>slight</td><td>dry</td><td>106</td></tr> <tr><td>30-40</td><td>sand</td><td>slight</td><td>dry</td><td>97</td></tr> <tr><td>40-50</td><td></td><td></td><td></td><td></td></tr> <tr><td>50-60</td><td></td><td></td><td></td><td></td></tr> <tr><td>60-70</td><td></td><td></td><td></td><td></td></tr> <tr><td>70-80</td><td></td><td></td><td></td><td></td></tr> <tr><td>80-90</td><td></td><td></td><td></td><td></td></tr> <tr><td>90-100</td><td></td><td></td><td></td><td></td></tr> <tr><td>100-110</td><td></td><td></td><td></td><td></td></tr> <tr><td>110-120</td><td></td><td></td><td></td><td></td></tr> <tr><td>120-130</td><td></td><td></td><td></td><td></td></tr> <tr><td>130-140</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Depth	Composition	Degree of Decomp.	Degree of Moisture	Temp	0-10	sand msw	slight	dry	98	10-20	msw sand	slight	dry	108	20-30	sand	slight	dry	106	30-40	sand	slight	dry	97	40-50					50-60					60-70					70-80					80-90					90-100					100-110					110-120					120-130					130-140				
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CLIENT REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

Larry Taylor 9-8-2021  
 SCS SITE SUPERINTENDENT DATE

NAME & TITLE \_\_\_\_\_

# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

DATE: 9/4/2021

PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

DRILLING	Well Asbuild																																																																																																																															
<p><b>EW-15B</b> WELL NUMBER OR NAME</p> <p><b>100</b> LINEAR FEET OF DRILLING</p> <p>100 LINEAR FEET OF COMPLETION</p> <p>LINEAR FEET OF ABANDONMENT</p> <p><b>Weather conditions: Sunny</b> Site conditions: Dry</p> <p>NOTES:</p>																																																																																																																																
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CLIENT REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

Larry Taylor 9-4-2021  
 SCS SITE SUPERINTENDENT DATE

NAME & TITLE \_\_\_\_\_

# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

DATE: 9/3/2021

PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

DRILLING	Well Asbuild																																																																																																																															
<p><b>EW-22B</b> WELL NUMBER OR NAME</p> <p><b>105</b> LINEAR FEET OF DRILLING</p> <p>105 LINEAR FEET OF COMPLETION</p> <p>LINEAR FEET OF ABANDONMENT</p> <p><b>Weather conditions: Sunny</b>                      Site conditions: Dry</p> <p>NOTES:</p>	<p>Backfill Material 2' sand</p> <p>Benseal plug 2' plug</p> <p>Length of Solid 15'</p> <p>Backfill Material 5'</p> <p>Benseal plug 2' plug</p> <p>Isolation Layer geo ring 1' soil</p> <p>Length of Gravel Pack 93'</p> <p>Length of Perf. Pipe 89'</p> <p>Style of Pipe 8" cpvc 80</p> <p>Bottom of bore 105'</p> <p>Bore diameter 36"</p>																																																																																																																															
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Larry Taylor 9-3-2021  
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NAME & TITLE \_\_\_\_\_

# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

DATE: 9/6/2021

PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

DRILLING	Well Asbuild																																																																																																																															
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Larry Taylor 9-6-2021  
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# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

DATE: 9/8/2021

PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

DRILLING	Well Asbuild																																																																																																																															
<p><b>EW-73</b> WELL NUMBER OR NAME</p> <p><b>38</b> LINEAR FEET OF DRILLING</p> <p><b>38</b> LINEAR FEET OF COMPLETION</p> <p>LINEAR FEET OF ABANDONMENT</p> <p><b>Weather conditions: Sunny</b>                      Site conditions: Dry</p> <p>NOTES:</p>																																																																																																																																
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Larry Taylor 9-8-2021  
 SCS SITE SUPERINTENDENT DATE

NAME & TITLE \_\_\_\_\_

# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

DATE: 9/7/2021

PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

DRILLING	Well Asbuild																																																																																																																															
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Larry Taylor 9-7-2021  
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## GAS EXTRACTION WELL LOG

DATE: 9/8/2021

PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

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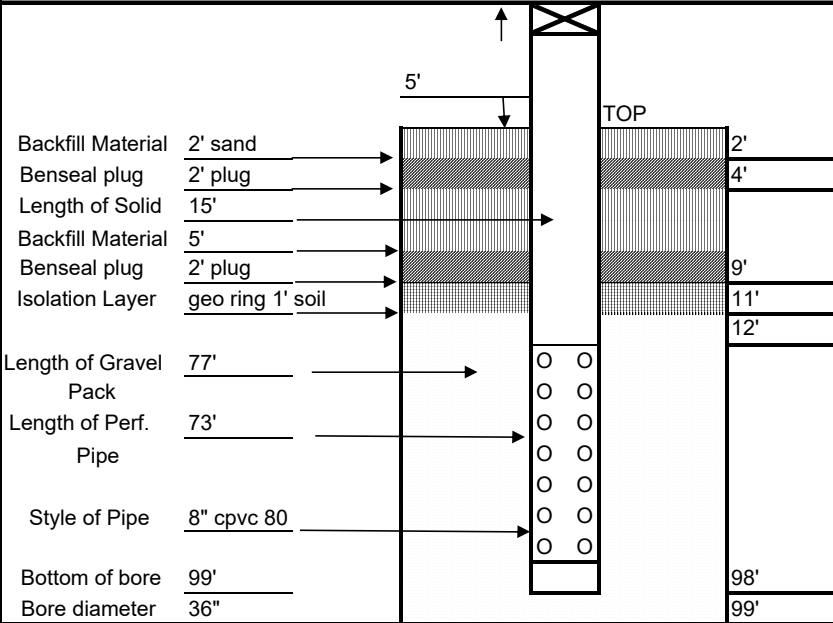
# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

DATE: 9/9/2021

PROJECT NAME Tomoka Farms Landfill

PROJECT# 12221017.00

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<p><b>EW-76</b> WELL NUMBER OR NAME</p> <p><b>99</b> LINEAR FEET OF DRILLING</p> <p><b>99</b> LINEAR FEET OF COMPLETION</p> <p>LINEAR FEET OF ABANDONMENT</p> <p><b>Weather conditions: Sunny</b> Site conditions: Dry</p> <p>NOTES:</p>	 <p>Backfill Material <u>2' sand</u></p> <p>Benseal plug <u>2' plug</u></p> <p>Length of Solid <u>15'</u></p> <p>Backfill Material <u>5'</u></p> <p>Benseal plug <u>2' plug</u></p> <p>Isolation Layer <u>geo ring 1' soil</u></p> <p>Length of Gravel Pack <u>77'</u></p> <p>Length of Perf. Pipe <u>73'</u></p> <p>Style of Pipe <u>8" cpvc 80</u></p> <p>Bottom of bore <u>99'</u></p> <p>Bore diameter <u>36"</u></p>																																																																																																																															
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Larry Taylor 9-9-2021  
SCS SITE SUPERINTENDENT DATE

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# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

DATE: 9/8/2021

PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

DRILLING	Well Asbuild																																																																																																																															
<p><b>EW-77</b> WELL NUMBER OR NAME</p> <p><b>41</b> LINEAR FEET OF DRILLING</p> <p><b>41</b> LINEAR FEET OF COMPLETION</p> <p>LINEAR FEET OF ABANDONMENT</p> <p><b>Weather conditions: Sunny</b>                      Site conditions: Dry</p> <p>NOTES:</p>																																																																																																																																
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Larry Taylor 9-8-2021  
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# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

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PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

DRILLING	Well Asbuild																																																																																																																															
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 PROJECT# 12221017.00

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<p><b>EW-79</b> WELL NUMBER OR NAME</p> <p><b>103</b> LINEAR FEET OF DRILLING</p> <p>103 LINEAR FEET OF COMPLETION</p> <p>LINEAR FEET OF ABANDONMENT</p> <p><b>Weather conditions: Sunny</b>                      Site conditions: Dry</p> <p>NOTES:</p>	<p>Backfill Material 2' sand</p> <p>Benseal plug 2' plug</p> <p>Length of Solid 15'</p> <p>Backfill Material 5'</p> <p>Benseal plug 2' plug</p> <p>Isolation Layer geo ring 1' soil</p> <p>Length of Gravel Pack 91'</p> <p>Length of Perf. Pipe 87'</p> <p>Style of Pipe 8" cpvc 80</p> <p>Bottom of bore 103'</p> <p>Bore diameter 36"</p>																																																																																																																															
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CLIENT REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

Larry Taylor 9-10-2021  
 SCS SITE SUPERINTENDENT DATE

NAME & TITLE \_\_\_\_\_

# SCS FIELD SERVICE

## GAS EXTRACTION WELL LOG

DATE: 9/13/2021

PROJECT NAME Tomoka Farms Landfill  
 PROJECT# 12221017.00

DRILLING	Well Asbuild																																																																																																																															
<p><b>EW-80</b> WELL NUMBER OR NAME</p> <p><b>100</b> LINEAR FEET OF DRILLING</p> <p>100 LINEAR FEET OF COMPLETION</p> <p>LINEAR FEET OF ABANDONMENT</p> <p><b>Weather conditions: Sunny</b> Site conditions: Dry</p> <p>NOTES:</p>	<p>Backfill Material 2' sand</p> <p>Benseal plug 2' plug</p> <p>Length of Solid 15'</p> <p>Backfill Material 5'</p> <p>Benseal plug 2' plug</p> <p>Isolation Layer geo ring 1' soil</p> <p>Length of Gravel Pack 88'</p> <p>Length of Perf. Pipe 85'</p> <p>Style of Pipe 8" cpvc 80</p> <p>Bottom of bore 100'</p> <p>Bore diameter 36"</p>																																																																																																																															
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Larry Taylor 9-13-2021  
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NAME & TITLE \_\_\_\_\_

## ATTACHMENT C

Record Drawings (HDR Engineering) and As-Built Survey  
(Smith Surveying Group)



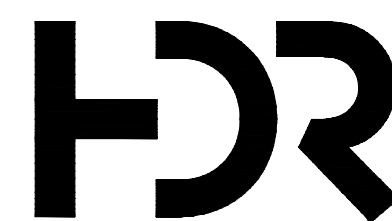




**PHASE VI & REPLACEMENT VERTICAL WELL SCHEDULE**

Well	Northing (ft)	Easting (ft)	Top of Protective Cover Elevation (ft)	Existing Ground Elevation (ft)	Calculated Waste Depth (ft) D <sub>R</sub>	As-Built Borehole Depth (ft) D <sub>B</sub>	Solid Pipe (ft) D <sub>S</sub>	Slotted Pipe (ft) D <sub>P</sub>	Gravel Pack (ft)
EW-15B	1746124.07	624151.80	18.36	136.21	117.8	100.0	15	84.0	87.0
EW-22B	1746342.61	624384.19	18.88	136.53	117.7	105.0	15	89.0	92.0
EW-71A	1746253.41	623993.46	16.48	131.92	115.4	101.0	15	85.0	88.0
EW-73	1745769.14	624473.82	18.80	69.85	51.1	38.0	15	22.0	25.0
EW-74	1746018.43	624527.88	19.38	136.06	116.7	103.0	15	87.0	90.0
EW-75	1745944.09	624851.22	21.42	129.15	107.7	96.0	15	80.0	83.0
EW-76	1745979.29	625221.68	20.92	131.71	110.8	99.0	15	83.0	86.0
EW-77	1745748.15	625051.07	23.51	77.71	54.2	41.0	15	25.0	28.0
EW-78	1746689.09	625169.03	17.31	126.47	109.2	96.0	15	80.0	83.0
EW-79	1746680.60	624845.49	18.60	132.92	114.3	103.0	15	87.0	90.0
EW-80	1746664.80	624442.75	19.73	133.09	113.4	100.0	15	84.0	87.0

VERTICAL LFG WELLHEAD	12
2"Ø HDPE SDR 9 AIRLINE	2312
4"Ø HDPE SDR 11 CONDENSATE FORCEMAIN	2312
6"Ø HDPE SDR 11 LATERAL	2275
10"Ø HDPE SDR 11 SUB-HEADER	96
12"Ø HDPE SDR 11 HEADER	1392
16"Ø HDPE SDR 11 HEADER	824
16"X12" REDUCER	1
CONDENSATE SUMP	1
10"Ø SUBHEADER VALVE	6
AIR VALVE	7
FORCEMAIN VALVE	7
HEADER ACCESS POINT	5



ISSUE	DATE	DESCRIPTION
B	01/2022	AS-BUILT
A	08/2019	AS-BUILT

PROJECT MANAGER	M. ROBERTS, P.E.
DRAWN BY	J. RAYMOND
CHECKED BY	K. PERERA, P.E.
PROJECT NUMBER	10166567



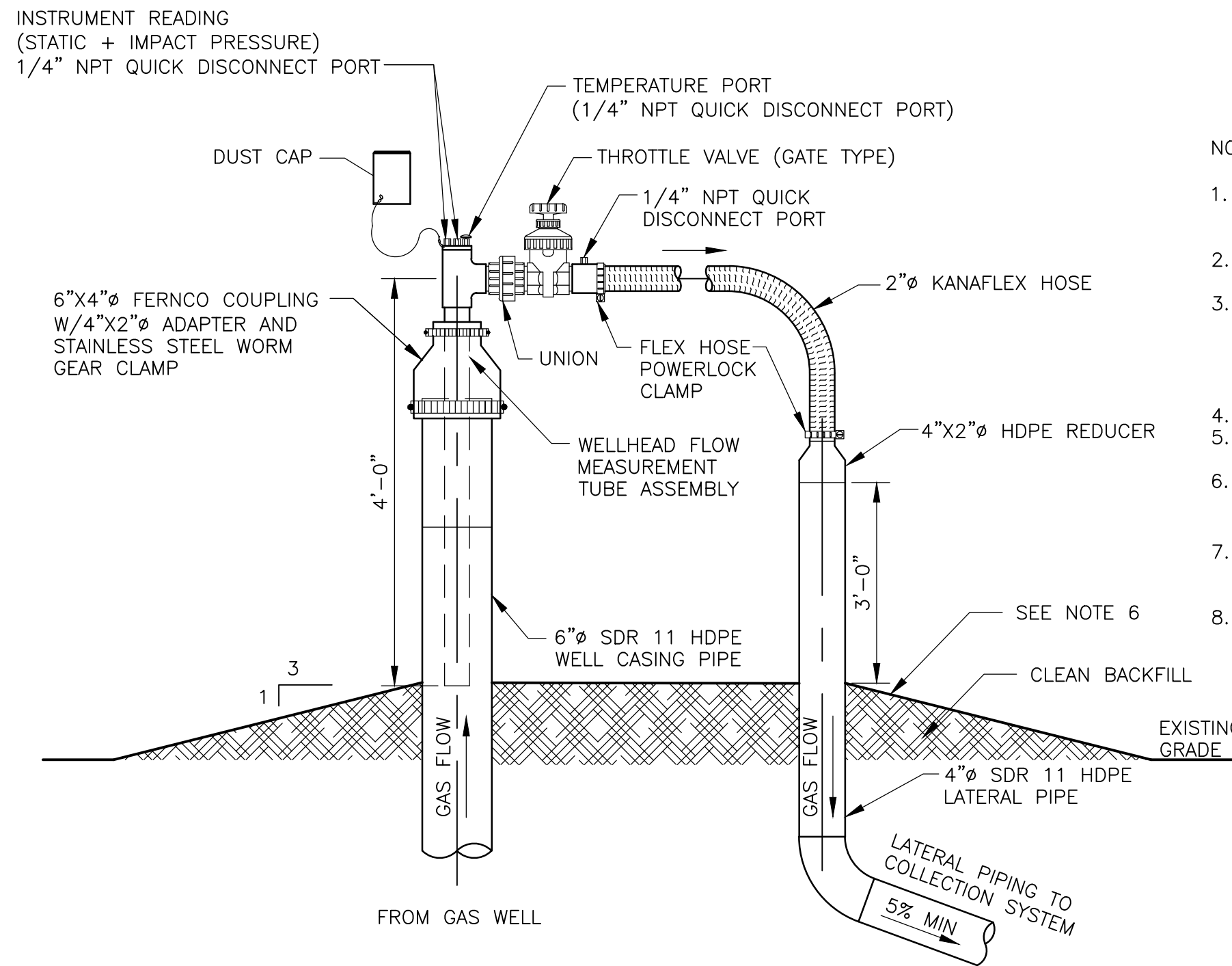
**TOMOKA FARMS ROAD LANDFILL  
PHASE VI RECORD DRAWINGS  
VOLUSIA COUNTY, FLORIDA**



FILENAME | LFG-04.dwg  
SCALE | #####

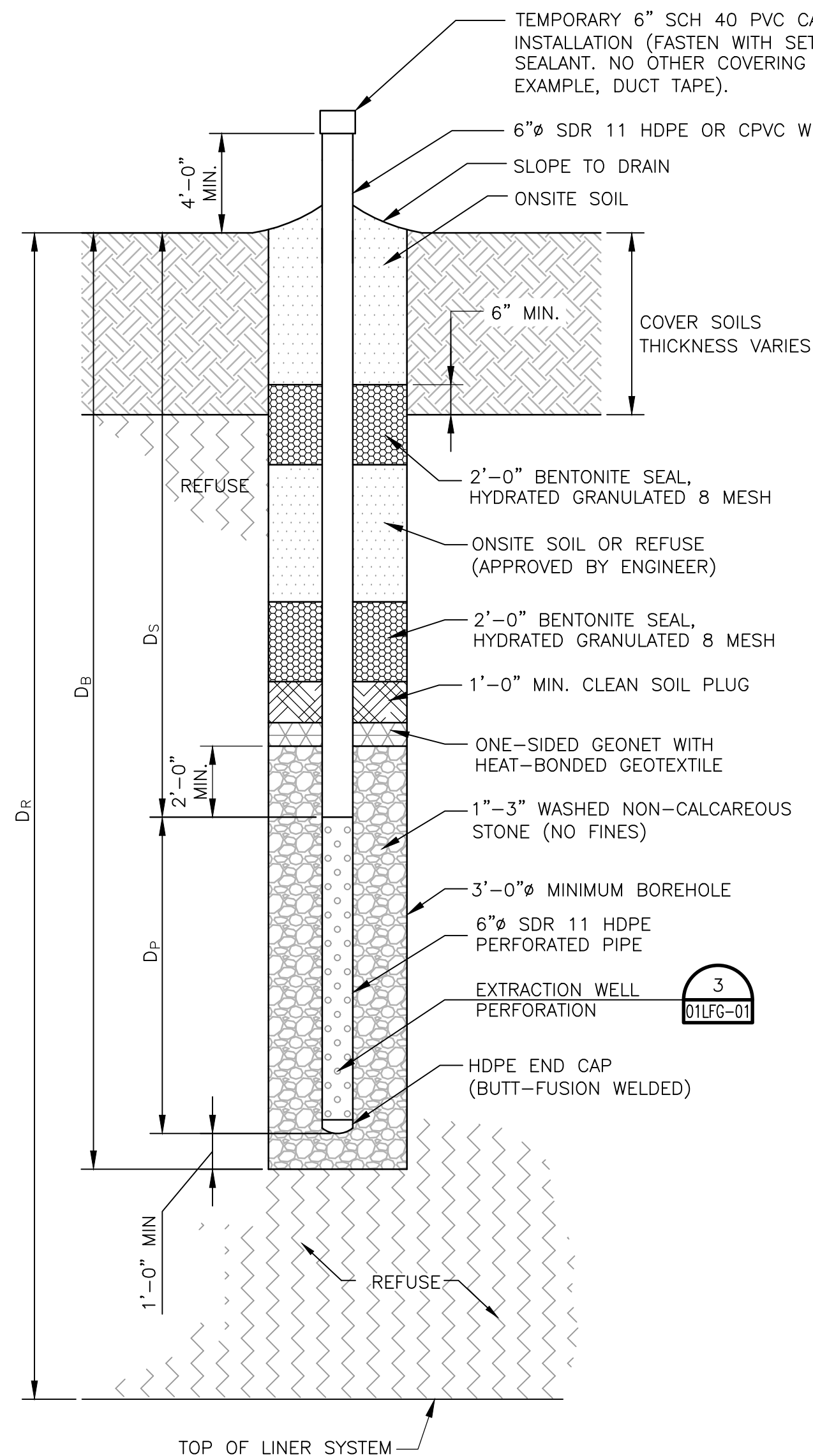
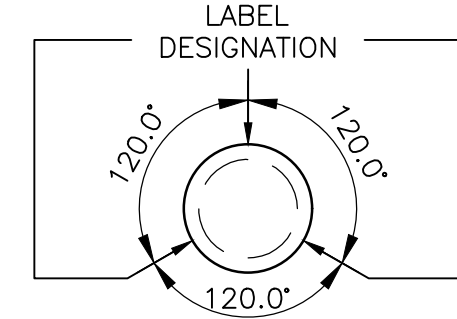
SHEET  
**LFG-04**



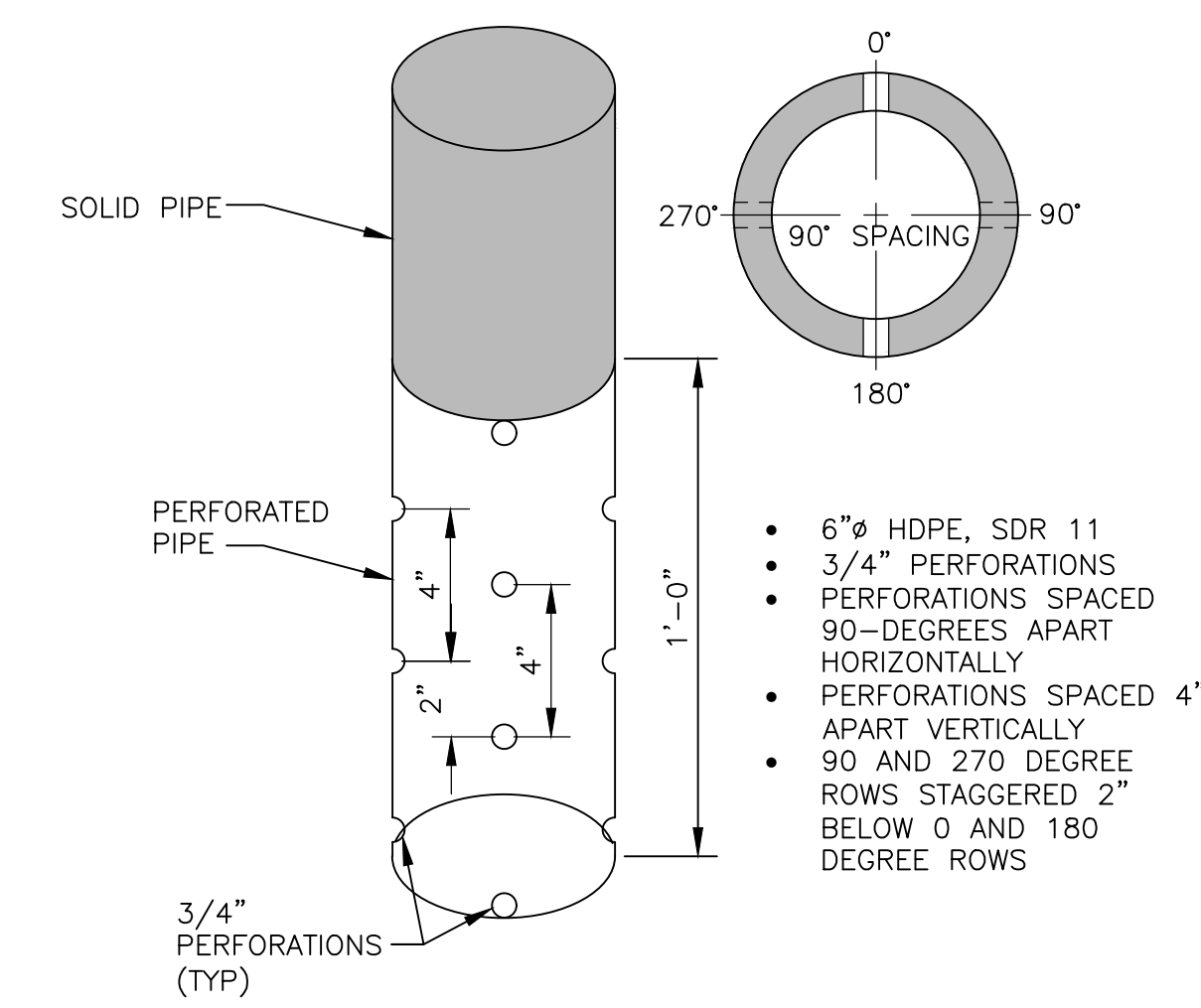


**LANDTEC WELLHEAD ASSEMBLY**  
NOT TO SCALE

- NOTES:
1. WELLHEAD ASSEMBLY SHOWN REPRESENTS 2" LANDTEC VERTICAL ACCU-FLO WELLHEAD ASSEMBLY. QED WELLHEAD OR APPROVED EQUAL MAY BE SUBSTITUTED.
  2. PROVIDE HIGH VISIBILITY TAPE AROUND TOP 1-FOOT OF WELL CASING AND LATERAL PIPE.
  3. LABEL ALL WELL RISERS WITH IDENTIFICATION NUMBER WITH YELLOW OR WHITE PAINT AND STENCILS OR ADHESIVE LABEL AT 2" MINIMUM HEIGHT AND LOCATED IMMEDIATELY BELOW HIGH VISIBILITY TAPE ON 3 SIDES OFFSET BY APPROXIMATELY 120°.
  4. AIR AND FORCEMAIN LINES NOT SHOWN FOR CLARITY. WELLHEAD TO BE CONSTRUCTED TO ALLOW INSTALLATION OF DEWATERING PUMP.
  5. EXISTING GRADE TO BE SLOPED FOR POSITIVE DRAINAGE IN A 1'-0" SURROUNDING SURFACE EXPRESSION WITH A MAXIMUM OF 6" ABOVE SURROUNDING GRADE.
  6. QED PART NUMBER 40072 INCLUDED IN FLANGE PACKAGE DETAIL TO BE INSTALLED AT TERMINATING END OF FORCEMAIN PIPE AT THE WELLHEAD.
  7. QED PART NUMBER 40070 INCLUDED IN FLANGE PACKAGE DETAIL TO BE INSTALLED AT TERMINATING END OF AIRLINE PIPE AT THE WELLHEAD.

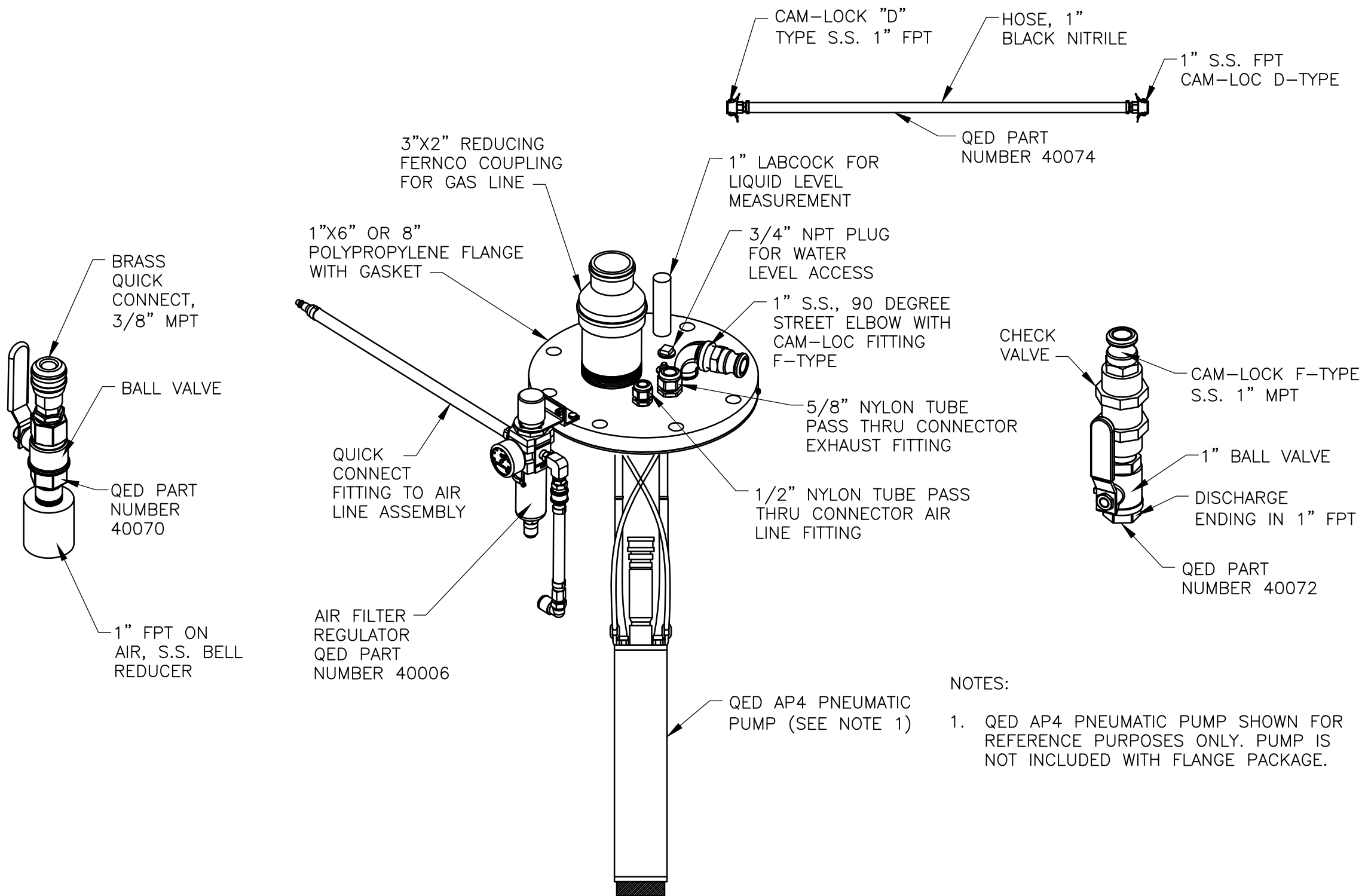


**VERTICAL WELL**  
NOT TO SCALE



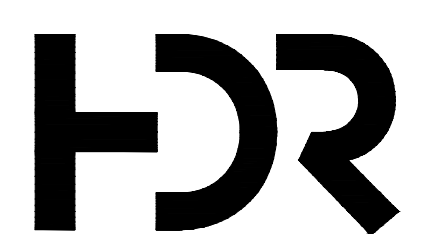
**EXTRACTION WELL PERFORATIONS**  
NOT TO SCALE

- NOTES:
1.  $D_R$  = DEPTH OF REFUSE  
 $D_B$  = DEPTH OF BORING  
 $D_S$  = DEPTH OF SOLID PIPE (BELOW GRADE) -10 FEET MINIMUM  
 $D_P$  = LENGTH OF PERFORATED PIPE
  2. SEE WELL SCHEDULES.
  3. 1"-3" WASHED NON-CALCAREOUS STONE (NO FINES).
  4. WELL DRILLING WILL NOT COMMENCE UNTIL EXISTING GRADE ELEVATIONS ARE IDENTIFIED AND VERIFIED BY PROJECT SURVEYOR, DESIGN ENGINEER, AND COA REPRESENTATIVE.
  5. WELL DRILLING TABLE WILL BE MANAGED BY OWNER OR DESIGNATED REPRESENTATIVE TO ENSURE ONLY THE VERIFIED WELL DEPTHS ARE PRESENT, AND THAT DRILLER AND COA REPRESENTATIVE HAVE THE IDENTICAL INFORMATION PRIOR TO DRILLING.
  6. TIRE CHIPS OR GLASS CULLET MAY BE SUBSTITUTED FOR NO-CALCAREOUS STONE IF APPROVED IN WRITING BY THE ENGINEER.
  7. PERFORATIONS SHALL BE ADJUSTED 1/4" SMALLER THAN THE GRAVEL, TIRE CHIP OR GLASS CULLET SIZE.



**FLANGE PACKAGE WITH PLUG**  
NOT TO SCALE

- NOTES:
1. QED AP4 PNEUMATIC PUMP SHOWN FOR REFERENCE PURPOSES ONLY. PUMP IS NOT INCLUDED WITH FLANGE PACKAGE.



ISSUE	DATE	DESCRIPTION
B	01/2022	AS-BUILT
A	08/2019	AS-BUILT

PROJECT MANAGER	M. ROBERTS, P.E.
DRAWN BY	J. RAYMOND
CHECKED BY	K. PERERA, P.E.
PROJECT NUMBER	10166567



**TOMOKA FARMS ROAD LANDFILL  
PHASE VI RECORD DRAWINGS  
VOLUSIA COUNTY, FLORIDA**

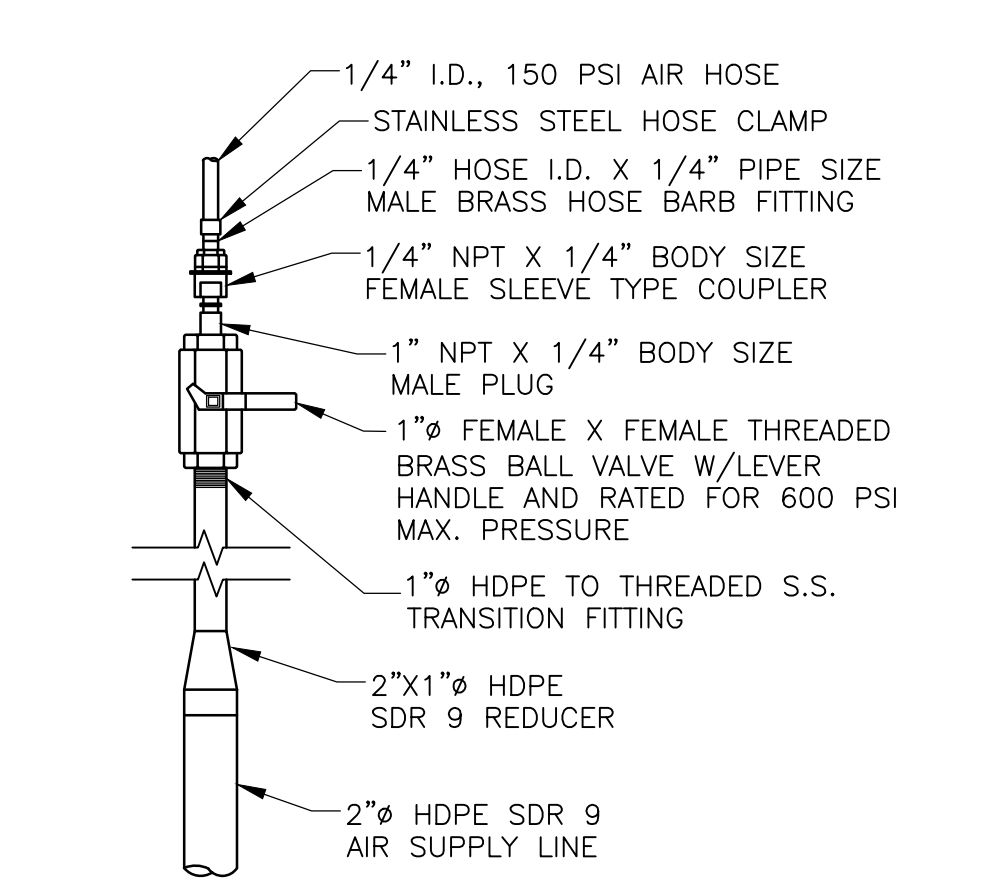
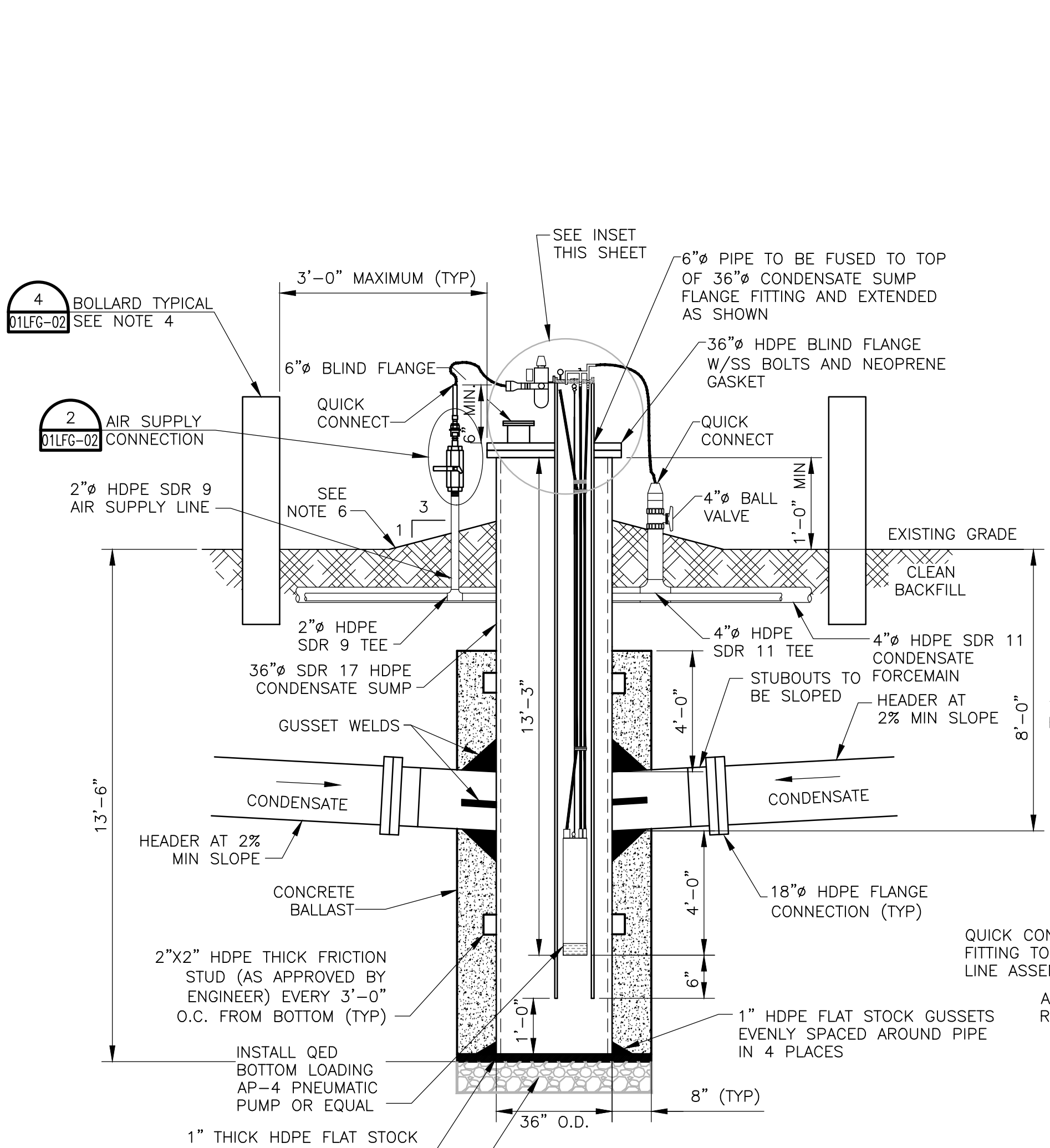


FILENAME | LFG DT-01.dwg  
SCALE | #####

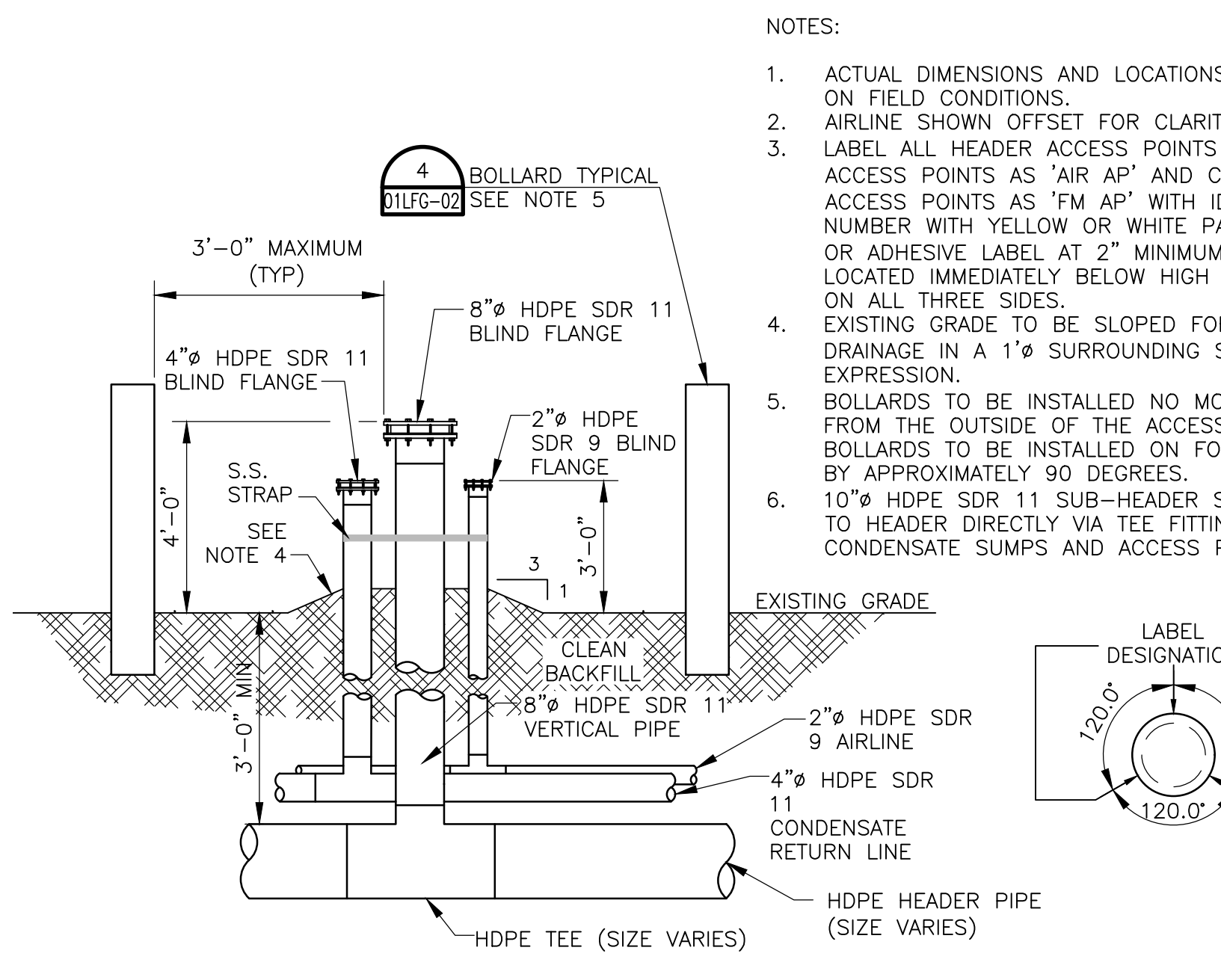
SHEET  
**LFG DT-01**

**LANDFILL GAS DETAILS**

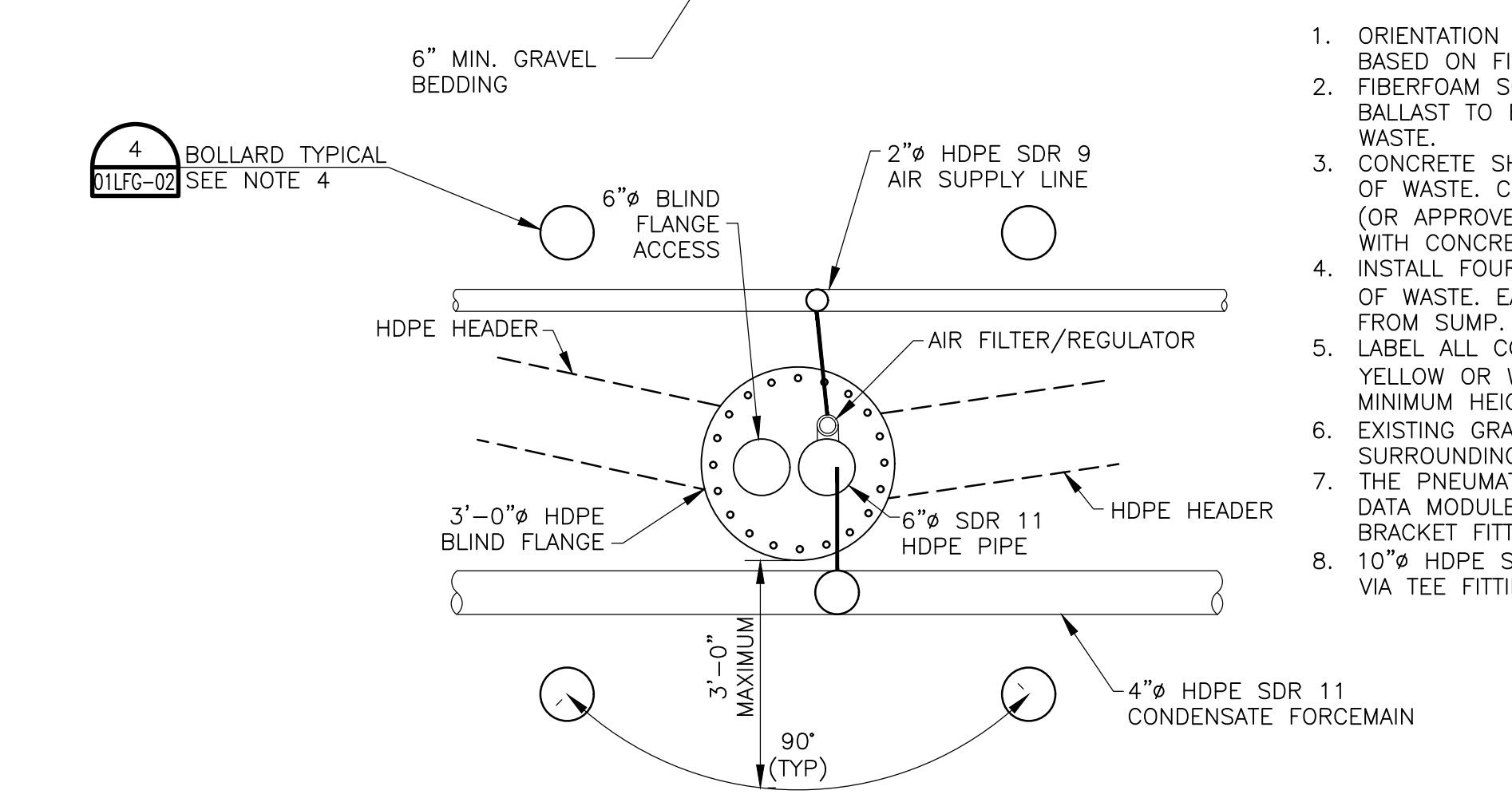




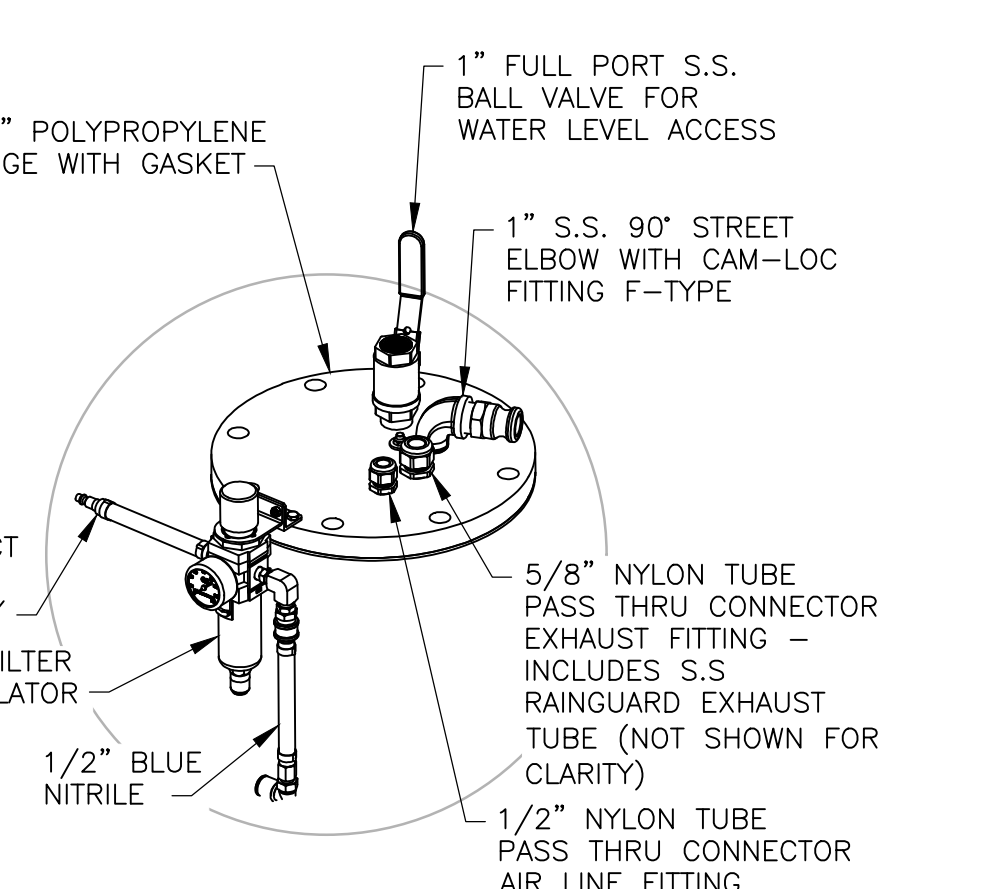
**AIR SUPPLY CONNECTION**  
NOT TO SCALE



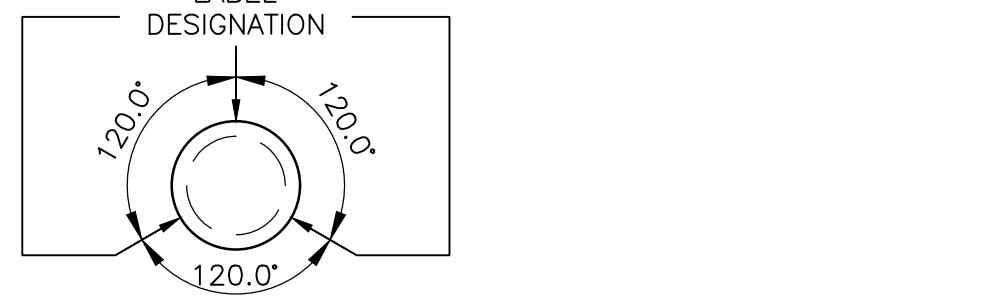
**HEADER ACCESS POINT**  
NOT TO SCALE



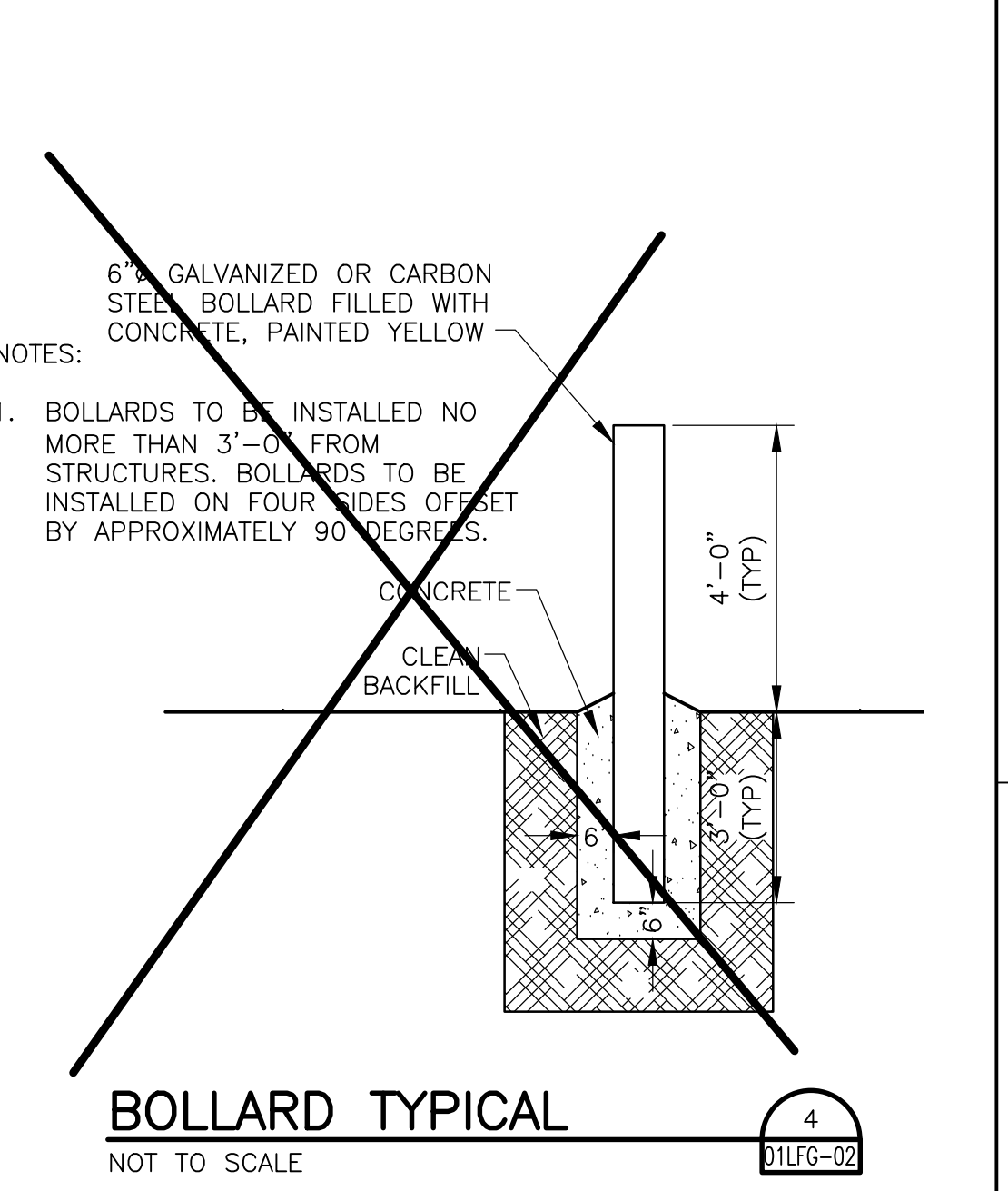
**CONDENSATE SUMP**  
NOT TO SCALE



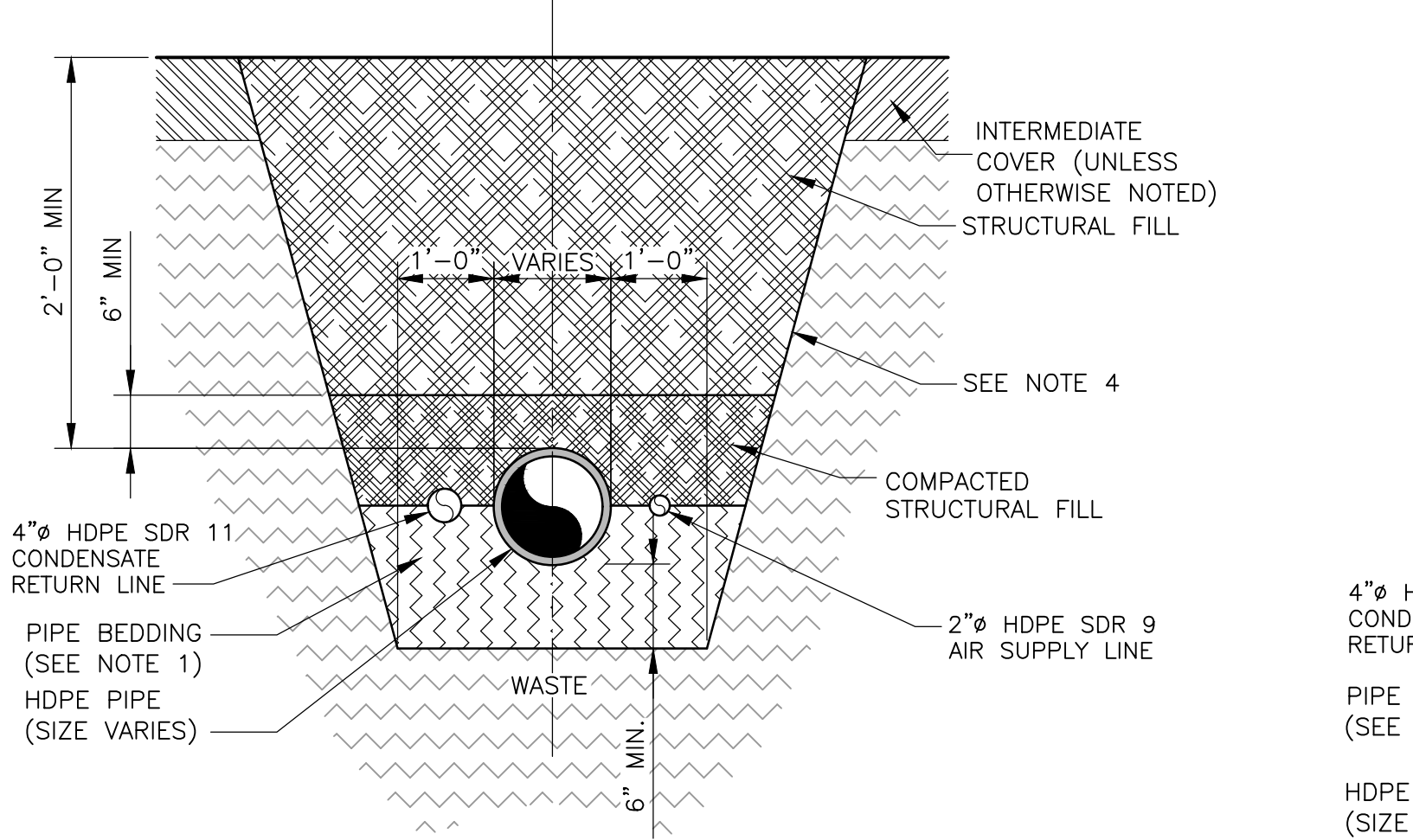
- NOTES:
1. ORIENTATION OF HEADER LINES ENTERING CONDENSATE SUMP VARIES BASED ON FIELD CONDITIONS.
  2. FIBERFOAM SONOTUBE FORM OR EQUAL AROUND SUMP FOR CONCRETE BALLAST TO BE CONSTRUCTED ON CONDENSATE SUMPS OUTSIDE OF WASTE.
  3. CONCRETE SHALL BE POURED AS BALLAST FOR SUMPS LOCATED OUTSIDE OF WASTE. CONCRETE CAN FILL THE ENTIRE EXCAVATION, OR A SONOTUBE (OR APPROVED EQUAL) CAN BE PLACED AROUND THE SUMP AND FILLED WITH CONCRETE AS SHOWN.
  4. INSTALL FOUR BOLLARDS AROUND CONDENSATE SUMPS LOCATED OUTSIDE OF WASTE. EACH BOLLARD TO BE 4'-0" TALL AND SPACED 3'-0" AWAY FROM SUMP. PAINT BOLLARDS SAFETY YELLOW.
  5. LABEL ALL CONDENSATE SUMPS WITH IDENTIFICATION NUMBER WITH YELLOW OR WHITE PAINT AND STENCILS OR ADHESIVE LABEL AT 2" MINIMUM HEIGHT AND LOCATED IMMEDIATELY BELOW HIGH VISIBILITY TAPE. EXISTING GRADE TO BE SLOPED FOR POSITIVE DRAINAGE IN A 1% SURROUNDING SURFACE EXPRESSION.
  6. THE PNEUMATIC PUMP INSTALLATION SHALL ALSO INCLUDE A PUMP DATA MODULE. DATA MODULE SHALL BE INSTALLED TO SUMP FLANGE VIA BRACKET FITTING.
  7. THE PNEUMATIC PUMP INSTALLATION SHALL ALSO INCLUDE A PUMP DATA MODULE. DATA MODULE SHALL BE INSTALLED TO SUMP FLANGE VIA BRACKET FITTING.
  8. 10" HDPE SDR 11 SUB-HEADER SHALL CONNECT TO HEADER DIRECTLY VIA TEE FITTING, ADJACENT TO CONDENSATE SUMPS AND ACCESS POINTS.



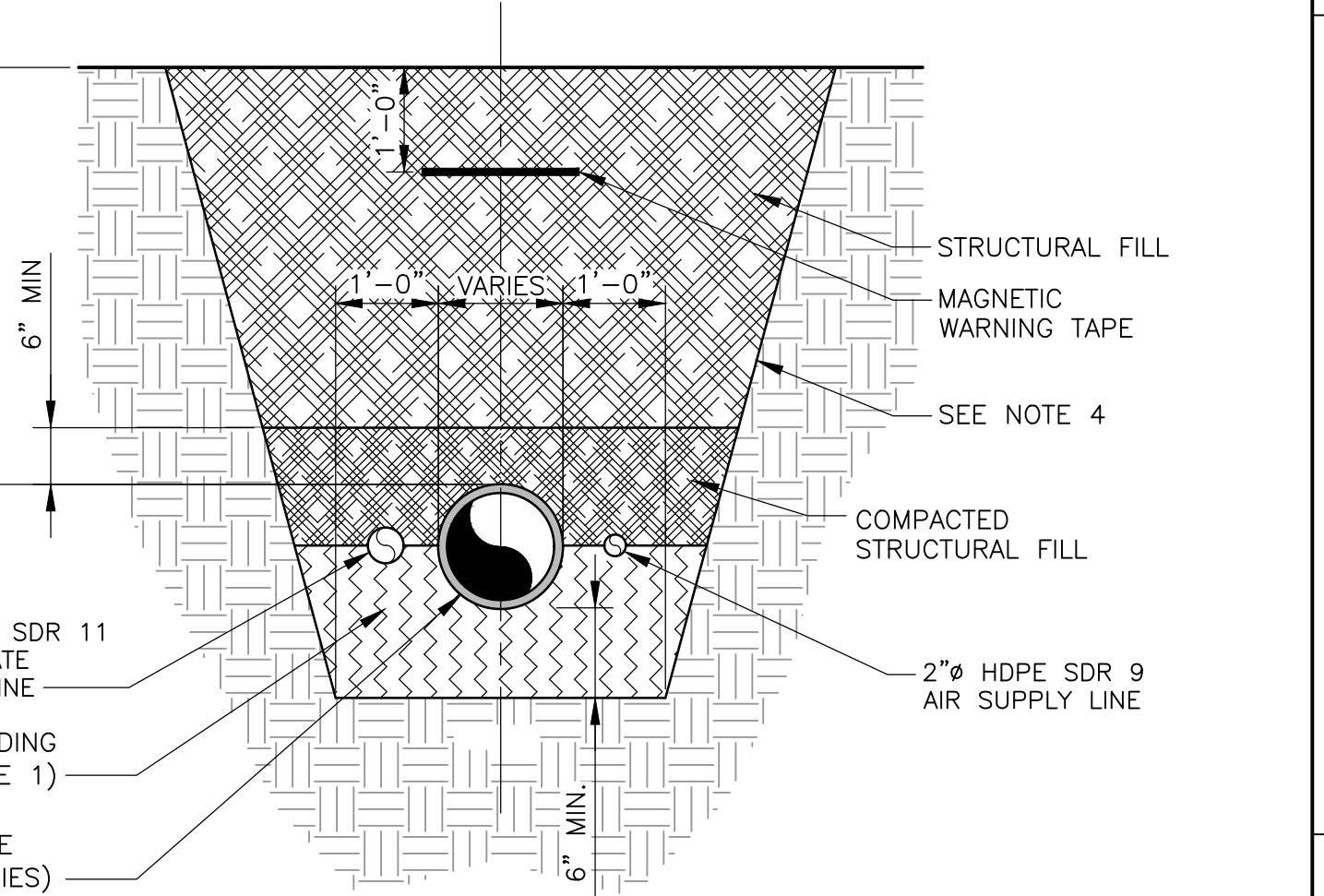
- NOTES:
1. ACTUAL DIMENSIONS AND LOCATIONS MAY VARY BASED ON FIELD CONDITIONS.
  2. AIRLINE SHOWN OFFSET FOR CLARITY.
  3. LABEL ALL HEADER ACCESS POINTS AS 'AP', AIRLINE ACCESS POINTS AS 'AIR AP' AND CONDENSATE ACCESS POINTS AS 'FM AP' WITH IDENTIFICATION NUMBER WITH YELLOW OR WHITE PAINT AND STENCILS OR ADHESIVE LABEL AT 2" MINIMUM HEIGHT AND LOCATED IMMEDIATELY BELOW HIGH VISIBILITY TAPE ON ALL THREE SIDES.
  4. EXISTING GRADE TO BE SLOPED FOR POSITIVE DRAINAGE IN A 1% SURROUNDING SURFACE EXPRESSION.
  5. BOLLARDS TO BE INSTALLED NO MORE THAN 3'-0" FROM THE OUTSIDE OF THE ACCESS POINT. BOLLARDS TO BE INSTALLED ON FOUR SIDES OFFSET BY APPROXIMATELY 90 DEGREES.
  6. 10" HDPE SDR 11 SUB-HEADER SHALL CONNECT TO HEADER DIRECTLY VIA TEE FITTING, ADJACENT TO CONDENSATE SUMPS AND ACCESS POINTS.



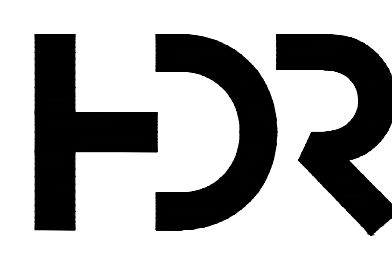
**BOLLARD TYPICAL**  
NOT TO SCALE



**TYPICAL LANDFILL GAS PIPE TRENCH (INSIDE WASTE)**  
NOT TO SCALE



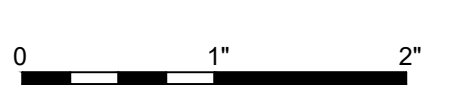
**TYPICAL LANDFILL GAS PIPE TRENCH (OUTSIDE WASTE)**  
NOT TO SCALE



<b>PROJECT MANAGER</b> M. ROBERTS, P.E.		
<b>DRAWN BY</b> J. RAYMOND		
<b>CHECKED BY</b> K. PERERA, P.E.		
<b>PROJECT NUMBER</b> 10166567		
<b>ISSUE</b>	<b>DATE</b>	<b>DESCRIPTION</b>
B	01/2022	AS-BUILT
A	08/2019	AS-BUILT



**TOMOKA FARMS ROAD LANDFILL  
PHASE VI RECORD DRAWINGS  
VOLUSIA COUNTY, FLORIDA**

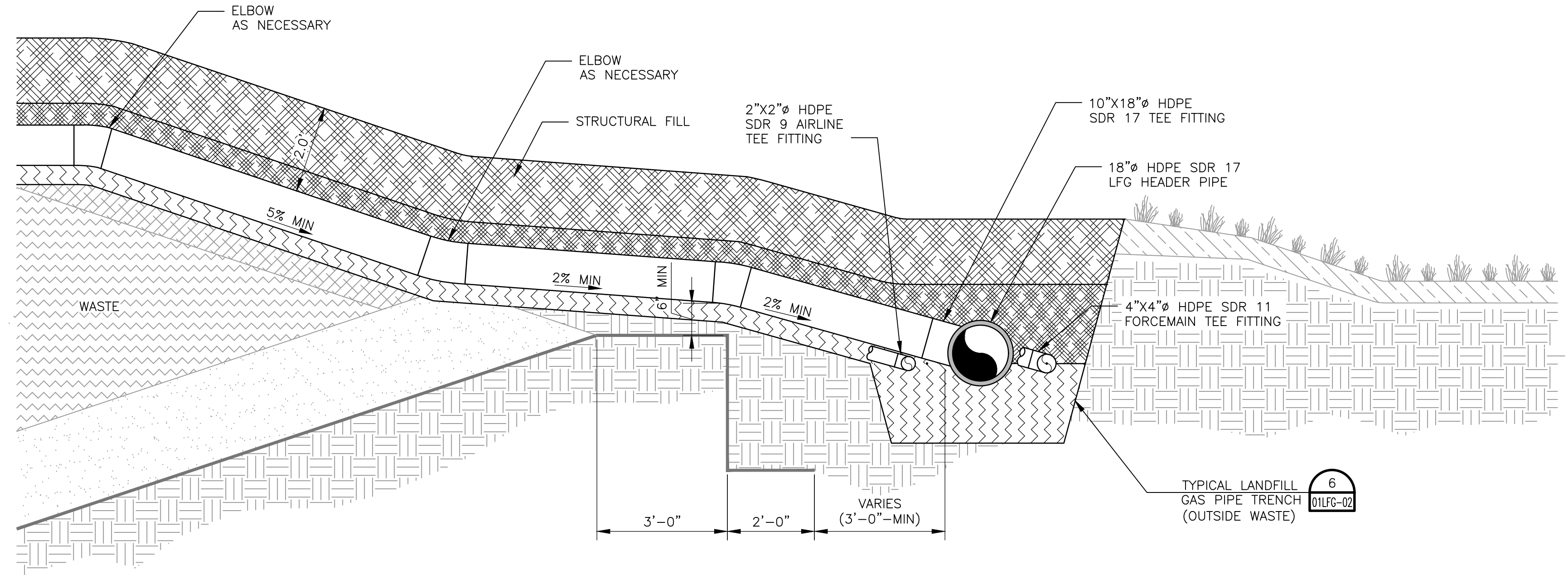


**FILENAME** LFG DT-02.dwg  
**SCALE** #####

**SHEET**  
**LFG DT-02**

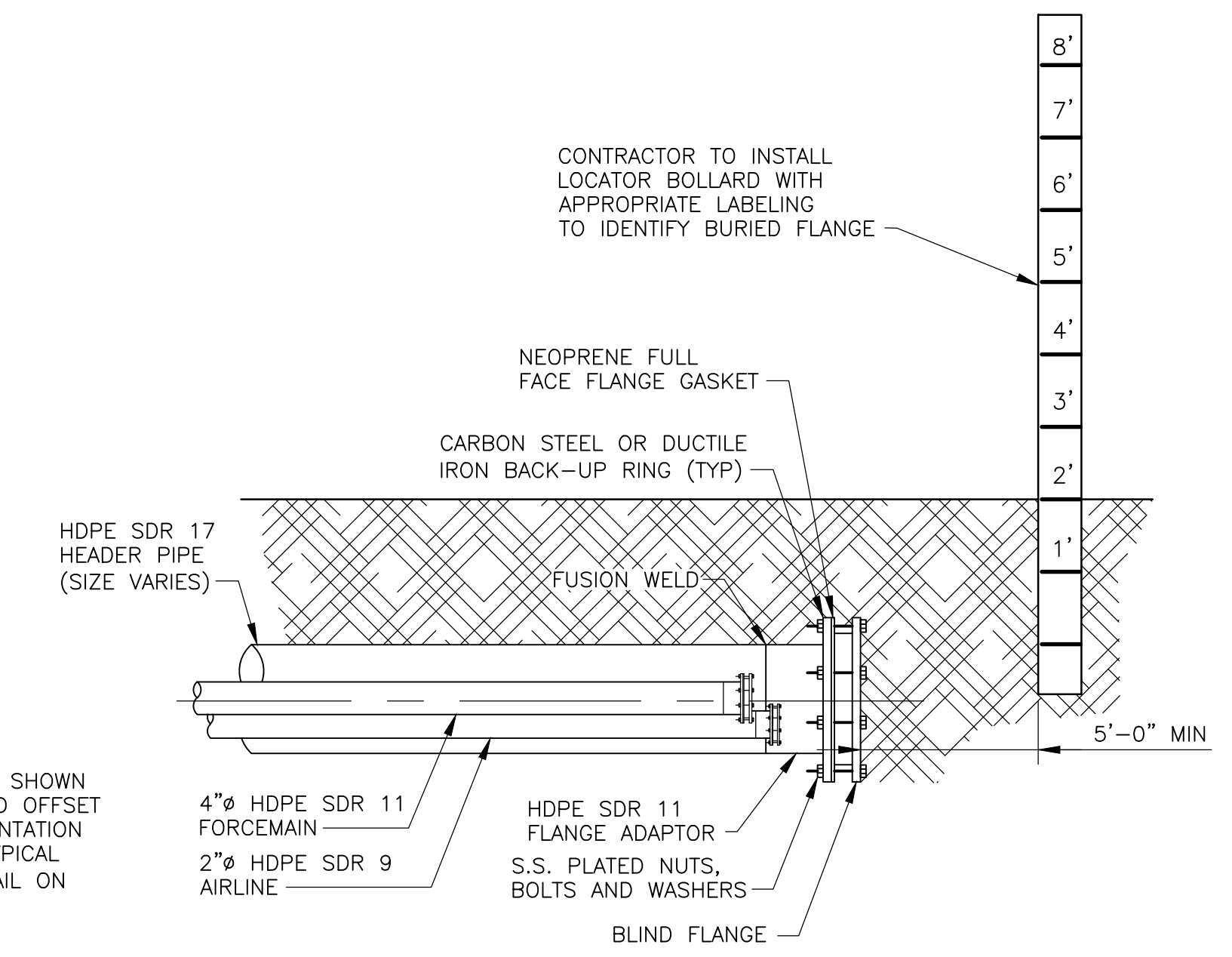
**LANDFILL GAS DETAILS**





- NOTES:
1. CONTRACTOR TO LOCATE EXISTING BOTTOM LINER SYSTEM ANCHOR TRENCH PRIOR TO CONSTRUCTION.
  2. ANY DAMAGES TO EXISTING LINER OR EXISTING PIPES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
  3. AIRLINE AND FORCEMAIN PIPE NOT SHOWN CONTINUOUS IN SECTION FOR CLARITY.

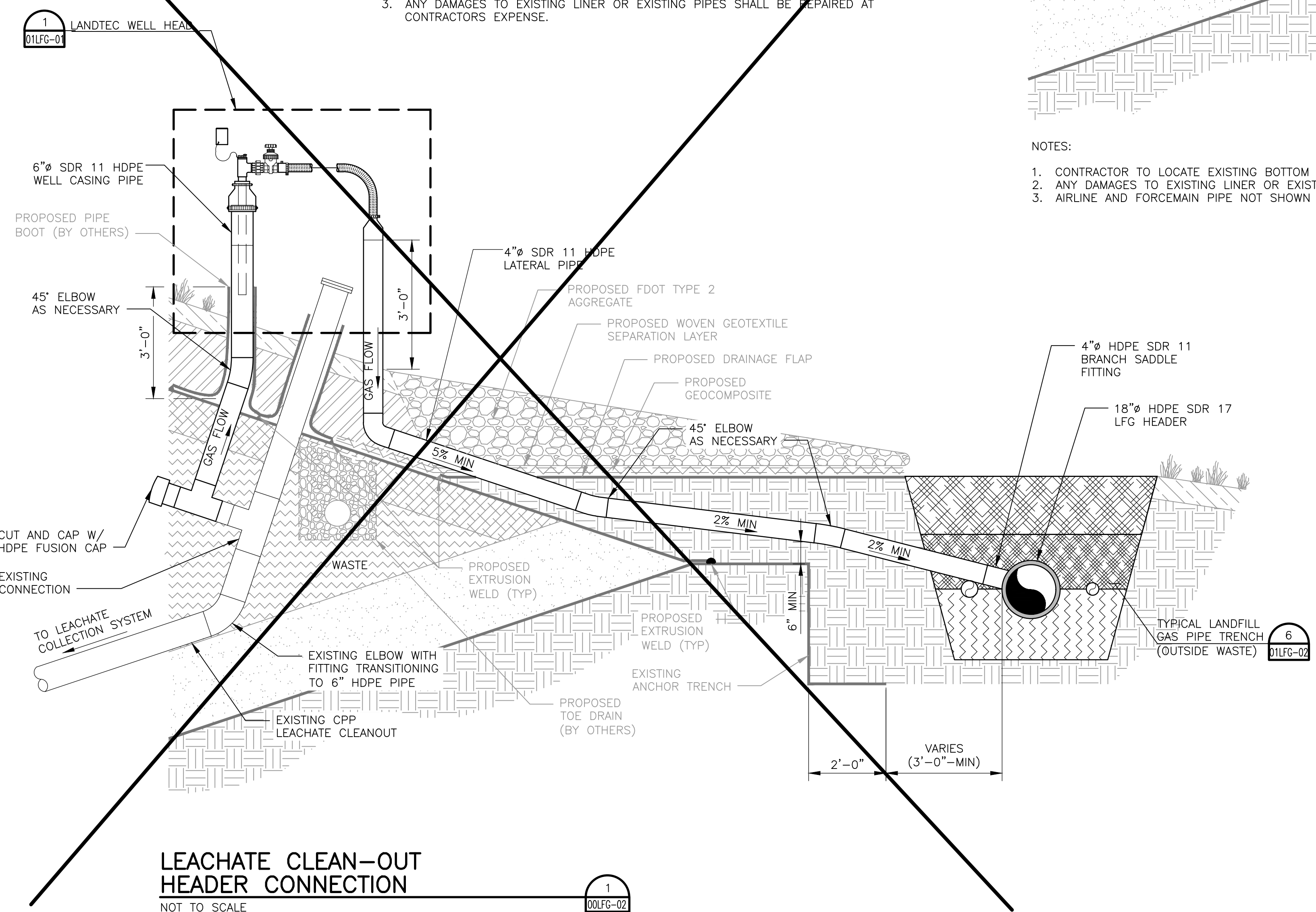
**ANCHOR TRENCH CROSSING** 2  
NOT TO SCALE



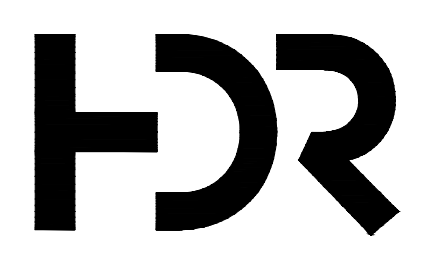
- NOTES:
1. AIRLINE AND FORCEMAIN PIPES SHOWN ON SAME SIDE OF HEADER AND OFFSET FOR CLARITY. DEPTH AND ORIENTATION SHALL BE CONSISTENT WITH TYPICAL TRENCH (OUTSIDE WASTE) DETAIL ON SHEET LFG DT-02.

**STUB-OUT AND DEPTH MARKER** 3  
NOT TO SCALE

- NOTES:
1. THE LFG HEADER AND COMPONENTS BETWEEN LANDTEC WELLHEAD AND EXISTING LEACHATE CLEANOUT ARE TO BE CONSTRUCTED PRIOR TO THE PLACEMENT OF THE LLDPE FINAL COVER. COMPONENTS BETWEEN THE LANDTEC WELLHEAD AND HEADER ARE TO BE CONSTRUCTED AFTER THE PLACEMENT OF THE LLDPE FINAL COVER.
  2. CONTRACTOR TO LOCATE EXISTING BOTTOM LINER SYSTEM ANCHOR TRENCH PRIOR TO CONSTRUCTION.
  3. ANY DAMAGES TO EXISTING LINER OR EXISTING PIPES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.



**LEACHATE CLEAN-OUT HEADER CONNECTION** 1  
NOT TO SCALE



<b>PROJECT MANAGER</b> M. ROBERTS, P.E.		
<b>DRAWN BY</b> J. RAYMOND		
<b>CHECKED BY</b> K. PERERA, P.E.		
<b>ISSUE</b>	<b>DATE</b>	<b>DESCRIPTION</b>
B	01/2022	AS-BUILT
A	08/2019	AS-BUILT
<b>PROJECT NUMBER</b> 10166567		



**TOMOKA FARMS ROAD LANDFILL  
PHASE VI RECORD DRAWINGS  
VOLUSIA COUNTY, FLORIDA**



**FILENAME** LFG DT-04.dwg  
**SCALE** #####

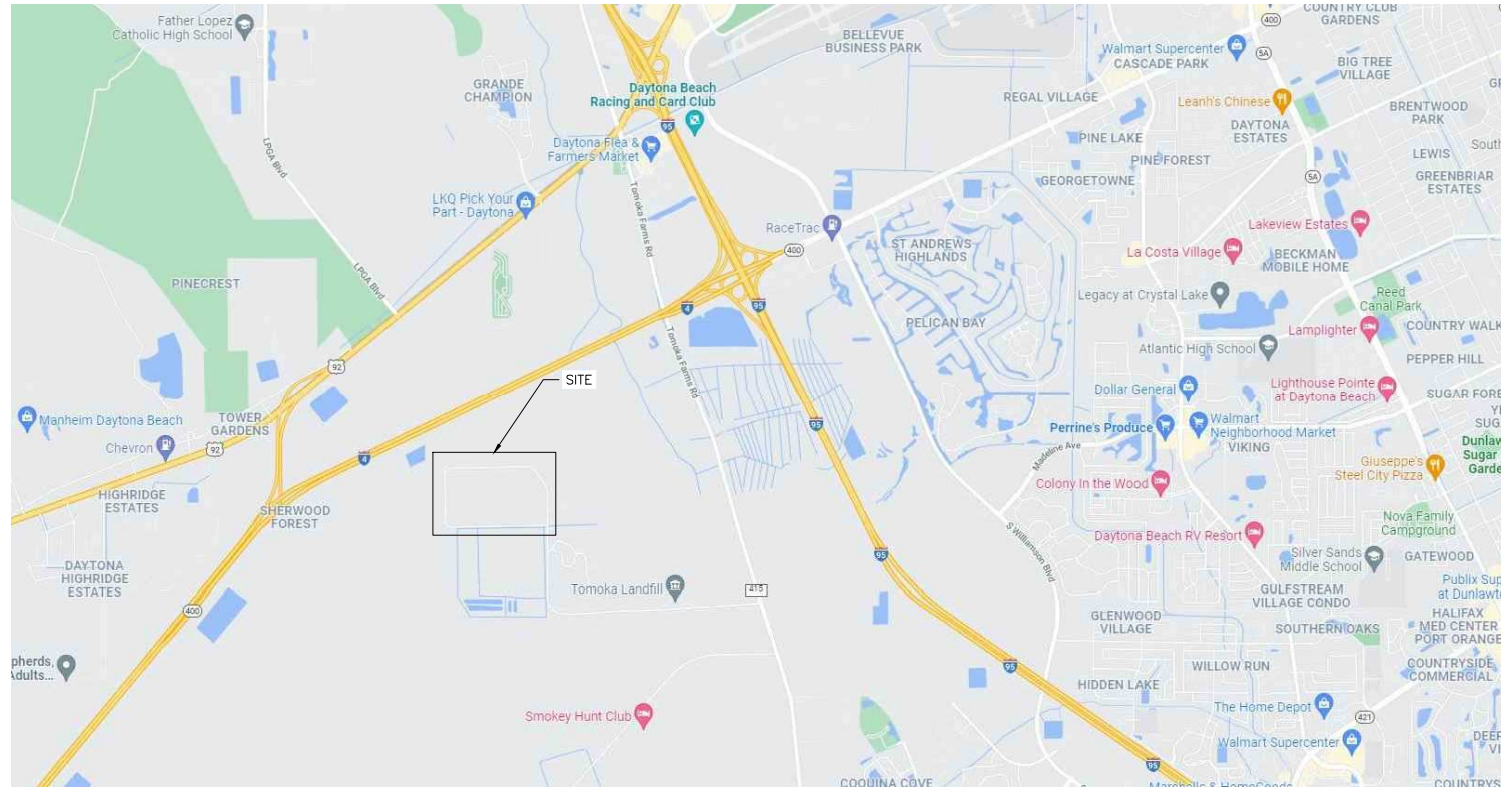
**SHEET**  
**LFG DT-04**

**LANDFILL GAS DETAILS**



# MAP SHOWING A AS-BUILT SURVEY OF

NOT A BOUNDARY SURVEY  
 TAMOKA FARMS ROAD LANDFILL  
 PHASE VI CONSTRUCTION DRAWINGS  
 VOLUSIA COUNTY, FLORIDA



VICINITY MAP

**NOTES:**

- EXISTING TOPOGRAPHIC INFORMATION TAKEN FROM AERIAL SURVEY PERFORMED BY PICKETT & ASSOCIATES ON MAY 18, 2021.
- ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM OF 1929, COORDINATES REFER TO NAD 83 FLORIDA STATE PLANES, EAST ZONE, U.S. FEET, 3. 4" FORCEMAIN & 2" AIR LINE NOT SHOWN WITH 12" HEADER FOR CLARITY.
- ALL ELEVATIONS UNLESS NOTED OTHERWISE ARE TO TOP OF PIPE.
- \* DENOTES INFORMATION AS SUPPLIED BY CONTRACTOR AND NOT CERTIFIED BY THIS FIRM.

**LEGEND:**

◆ EW-27	EXISTING VERTICAL EXTRACTION WELL	◆ EW-27	PHASE 1 - PROPOSED VERTICAL EXTRACTION WELL
● EW-27	EXISTING VERTICAL EXTRACTION WELL WITH PUMP	◆ EW-27	PHASE 2 - PROPOSED VERTICAL EXTRACTION WELL
▲ HC-16B	EXISTING HORIZONTAL COLLECTOR	◆ EW-27	PHASE 1 - EXISTING WELL TO BE ABANDONED
▲ HC-15B	EXISTING HORIZONTAL COLLECTOR WITH PUMP	□ LS-2	PHASE 2 - EXISTING WELL TO BE ABANDONED
▲ RW-9	EXISTING REMOTE EXTRACTION WELL	□ LS-2	PHASE 1 - PROPOSED LEACHATE SUMP
□ LS-1	EXISTING LEACHATE SUMP	◆ EW-27	PHASE 1 - PROPOSED PUMP IN EXISTING EXTRACTION WELL
○ AP-6	EXISTING ACCESS POINT	⊘ V-1	PHASE 1 - PROPOSED HEADER/LATERAL VALVE
● CS-15	EXISTING CONDENSATE SUMP	⊘ AV-1	PHASE 1 - PROPOSED AIR SUPPLY ISOLATION VALVE
○	EXISTING HORIZONTAL COLLECTOR HIGH POINT	⊘ AV-4	PHASE 2 - PROPOSED AIR SUPPLY ISOLATION VALVE
-----	EXISTING AIR SUPPLY LINE	⊘ CV-1	PHASE 1 - PROPOSED DEWATERING DISCHARGE ISOLATION VALVE
-----	EXISTING HEADER/LATERAL	⊘ CV-5	PHASE 2 - PROPOSED DEWATERING DISCHARGE ISOLATION VALVE
-----	EXISTING DEWATERING DISCHARGE LINE		

**SURVEYOR LEGEND**

AB AS-BUILT  
 LF LINIER FEET

**SURVEYOR NOTES:**

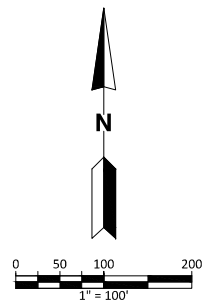
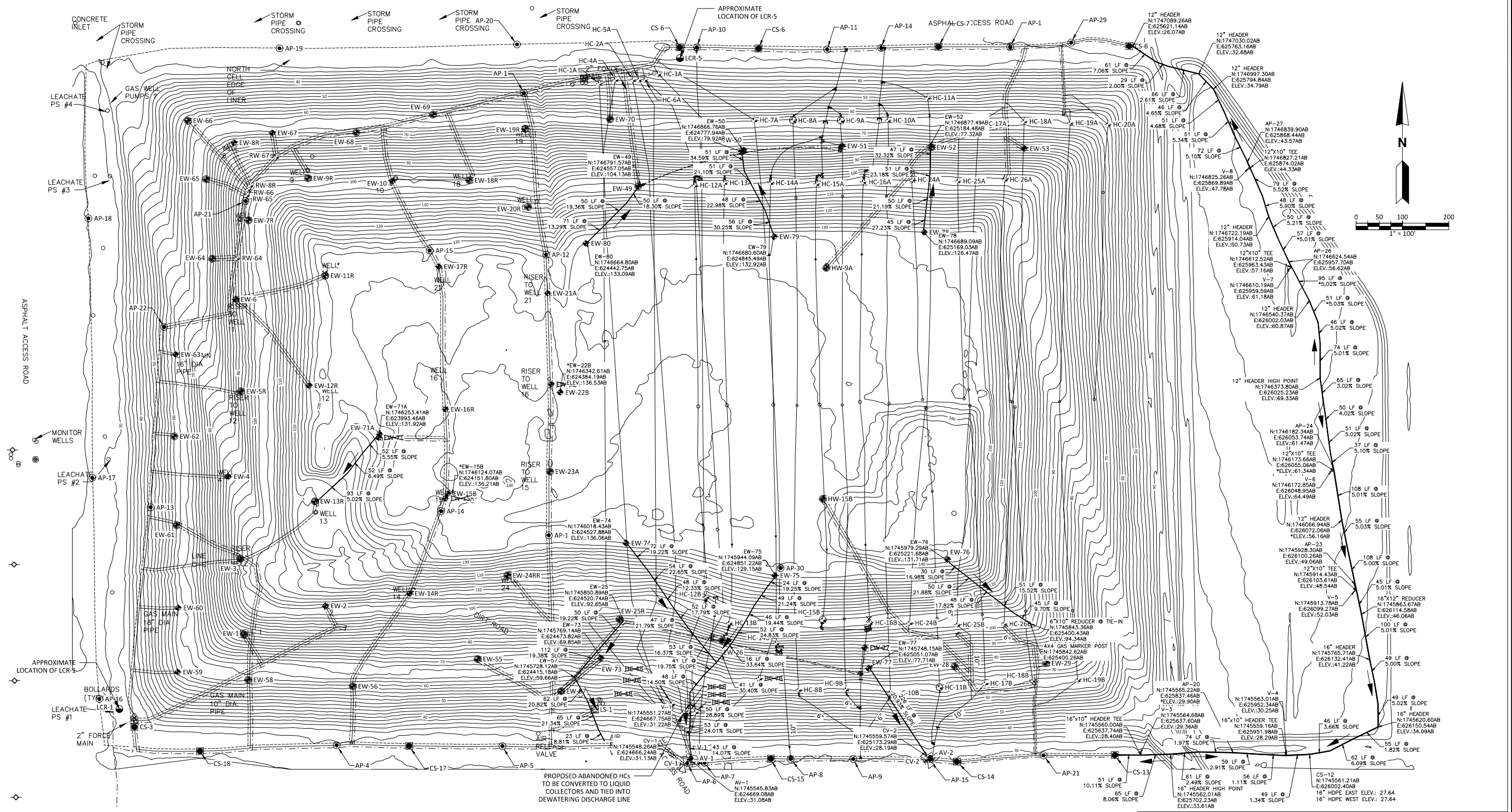
- THIS IS SURVEY IS TO SHOW AS-BUILT CONDITIONS OF THE PHASE VI GAS SYSTEM.
- THE LAST DATE IN FIELD FOR THIS SURVEY WAS 11/18/2021.
- ELEVATIONS WERE DERIVED FROM ON SITE BENCH MARKS AS SUPPLIED BY CLIENT AND ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- COORDINATES SHOWN HEREON WERE SUPPLIED BY CLIENT AND ARE ASSUMED TO BE RELATIVE NORTH AMERICAN DATUM OF 1983, FLORIDA EAST ZONE 901, IN U.S. SURVEY FEET.
- ALL ELEVATIONS UNLESS NOTED OTHERWISE ARE TO TOP OF PIPE.
- \* DENOTES INFORMATION AS SUPPLIED BY CONTRACTOR AND NOT CERTIFIED BY THIS FIRM.

THIS MAP IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

<p><b>SMITH SURVEYING GROUP</b>                  FLORIDA CERTIFICATE OF AUTHORIZATION NO. LB 8368                  9770 BANMEADOWS ROAD, SUITE 121                  JACKSONVILLE, FLORIDA 32256                  T: 904.266-6300                  F: 904.266-6300                  © COPYRIGHT 2021: SMITH SURVEYING GROUP</p>	<p>Digitized by:  <b>Tom Smith</b>                  THOMAS J. SMITH                  FL PSM NO. 3500                  DATE SIGNED: 1/13/2022</p>	FOR: SCS FIELD SERVICES DATE: 12/9/2021 WORK ORDER NO.: 574-21 PROJECT NUMBER: 43721 SHEET 1 OF 2 SHEETS DRAWING NO. D-43721
		PARTY CHIEF: RUSS    COMPUTED BY: N/A    CADD TECH: DTS    DC FILE NO.: 43721    F.B.: N/A    P.G.: N/A

# MAP SHOWING A AS-BUILT SURVEY OF

NOT A BOUNDARY SURVEY  
TAMOKA FARMS ROAD LANDFILL  
PHASE VI CONSTRUCTION DRAWINGS  
VOLUSIA COUNTY, FLORIDA



THIS MAP IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

<p><b>SMITH SURVEYING GROUP</b> FLORIDA CERTIFICATE OF AUTHORIZATION NO. LB 8368 9770 BANWATERS ROAD, SUITE 121 JACKSONVILLE, FLORIDA 32256 Tel: 904.266-6300 Fax: 904.266-6300 © COPYRIGHT 2021, SMITH SURVEYING GROUP</p>		DATE: 12/9/2021
		WORK ORDER NO.: 574-21
		PROJECT NUMBER: 43721
		SHEET 2 OF 2 SHEETS
PARTY CHIEF: RUSS    COMPUTED BY: N/A    CADD TECH: DS    DC FILE NO.: 43721    F.B.: N/A    P.G.: N/A		

ATTACHMENT D  
Daily Field Logs



## **SCS FIELD LOGS**



























# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/1/21 Weather rain

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	8		Tony Taylor	8	
Dustin Voils	8				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1		T-180 Skid steer	1	
F-150 Pick up	2		30 ton Dump truck	1	
Tool trailer	2				
Gator	1				
210 excavator	1				
6k fork lift	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Laid out well casing by wells. Built 12" tees with pups for tie ins.		
Built 2" air valves and 4" clean outs.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_  
 I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/2/21 Weather sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	8		Tony Taylor	8	
Dustin Voils	8		Anthony Lawless	8	
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1		T-180 Skid steer	1	
F-150 Pick up	2		30 ton Dump truck	1	
Tool trailer	2				
Gator	1				
210 excavator	1				
	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Built 12" tees with pups. Unloaded well pipe and fittings. Built well		
Casings. B&H arrived on site at 2:00 set up drill rig ready to begin drilling.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/3/21 Weather sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10		Anthony Lawless	10	
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1		T-180 Skid steer	1	
F-150 Pick up	2		30 ton Dump truck	1	
Tool trailer	2				
Gator	1				
210 excavator	1				
	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Drilled EW-22B to 105' set and completed well. Moved rig to EW-15B		
Drilled to 35'. Covered bore hole and placed excavator bucket over hole.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_  
 I understand that when performing a one person job assignment, I am acting as my own supervisor.



















# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/8/21 Weather sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1		T-180 Skid steer	1	
F-150 Pick up	2		30 ton Dump truck	1	
Tool trailer	2				
Gator	1				
210 excavator	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Drilled EW-75 65' to 96' set and completed well. Drilled EW-73 to 38'		
Set and completed well. Drilled EW-77 to 41' set and completed well. Drilled EW-76		
To 50' covered bore hole. Heavy rain at 5:00		
Total drilling	160	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/9/21 Weather Rain

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	2		Tony Taylor	3	
Dustin Voils			Troy zerbe	3	
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
Tool trailer	2	2			

Instrument Calibration (Cal. Gas)		CH4 (%-VOL)	CH4 (%-LEL)	O2 Low Scale (%-VOL)	CO2 (%-VOL)	H2S (PPM)
Model	S/N					

Work Summary	Quantity	Unit
Arrived on site: Installed tee post every 20' along 875' of 2" above grade pipe. To avoid Mower damage.		
6 4 2	27	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/9/21 Weather Rain

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1		T-180 Skid steer	1	
F-150 Pick up	2		30 ton Dump truck	1	
Tool trailer	2				
Gator	1				
210 excavator	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Drilled EW-76 50' to 99' set and completed well. Drilled EW-78 to 85'		
Covered bore hole. Heavy rain from 8:30 to 10:30. Light rain from 11:00 to 12:30.		
Total drilling	134	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.



# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/10/21 Weather Rain

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1		T-180 Skid steer	1	
F-150 Pick up	2		30 ton Dump truck	1	
Tool trailer	2				
Gator	1				
210 excavator	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Drilled EW-78 85' to 96' set and completed well. Drilled EW-79 to 103'		
Set and completed well. Rain off and on all day.		
Total drilling	114	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/11/21 Weather Rain

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	5		Tony Taylor	5	
Dustin Voils	5				
Troy Zerbe	5				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1		T-180 Skid steer	1	
F-150 Pick up	2		30 ton Dump truck	1	
Tool trailer	2				
Gator	1				
210 excavator	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Drilled EW-80 to 20' hydraulic line on rig burst. Removed 2" line		
Nowhere open today to get repaired. Begin welding 6" pipe.		
Total drilling	20	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.





# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/13/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor			Tony Taylor	4	
Dustin Voils					
Troy Zerbe					
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1		T-180 Skid steer	1	
F-150 Pick up	2		30 ton Dump truck	1	
Tool trailer	2				
Gator	1				
210 excavator	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Repaired hydraulic line on rig by 1:30 drilled from 20' to 90' covered Borehole and hauled away waste.		
Total drilling	70	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/14/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor			Tony Taylor	8	
Dustin Voils	8		Troy zerbe	8	
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 pick up	1	1	6k forklift	1	1
Tool trailer	2	2	210 Excavator	1	1
2-8 fusion machine	1	1	30 ton truck	1	1
1-4 fusion machine	1	1			
generator	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated and cleaned off lines at 13R. Tied in 6" line and run to 71A		
Excavated 4" and 2" lines at existing 71 and moved to 71A. backfilled with sand and		
Trench tape. Finished to grade.		
6" pipe	200	LF
4" and 2"	15	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/14/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	8		Tony Taylor	3	
Dustin Voils	3				
Troy Zerbe	3				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1		T-180 Skid steer	1	
F-150 Pick up	2		30 ton Dump truck	1	
Tool trailer	2				
Gator	1				
210 excavator	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Drilled EW-80 from 90 to 100 set and completed well.		
Drilling completed		
Total drilling	10	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.



# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/21/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
			generator	1	1
210 excavator	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: excavate tie in point around AP-7. 10" line air and drain were 6' deep.		
Excavated back line 40' for future tie in. Excavated by EW-57 uncovered 6" 4" and 2".		
Excavated back lines to make connections. Ordered additional fittings need to make		
Tie in. welded riser and pipes for tie ins.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/22/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
			generator	1	1
210 excavator	1	1	8" fusion machine	1	1

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: excavated around EW-49 and exposed 6" 4" and 2". Excavated trench to		
EW-80. Tied into existing lines and installed new 6" 4" and 2". Backfilled trench with		
Sand trench tape and finished to grade. Excavated around EW-50 and exposed 6" 4" 2"		
For tie in.		
6" 4" 2"	171	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/23/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
			generator	1	1
210 excavator	1	1	8" fusion machine	1	1

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: excavated around EW-50 and exposed 6" 4" and 2". Excavated trench to		
EW-79. Tied into existing lines and installed new 6" 4" and 2". Backfilled trench with		
Sand trench tape and finished to grade. Excavated around 4" condensate at 22B cut and		
Lowered tee to protect piping. Hauled sand to EW-71A and 22B and graded areas.		
6" 4" 2"	210	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/24/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
			generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: excavated around EW-52 and exposed 6" 4" and 2". Excavated trench to		
EW-78. Tied into existing lines and installed new 6" 4" and 2". Backfilled trench with		
Sand trench tape and finished to grade. Excavated around EW-57 cleaned off 6" 4" 2"		
6" 4" 2"	200	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/25/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	5		Tony Taylor	5	
Dustin Voils	5				
Troy Zerbe	5				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
			generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated trench from EW-57 to EW-73 tied into existing 6" 4" 2"		
Backfilled trench with sand trench tape and completed to grade. Dressed slopes.		
6" 4" 2"	25	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_  
 I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/27/21 Weather Sunny

SCS-FS Labors		Hours	OT	SCS-FS Labors		Hours	OT
Larry Taylor		10		Tony Taylor		10	
Dustin Voils		10					
Troy Zerbe		10					
Equip, SVCS, MLG		Qty	TM day	Equip, SVCS, MLG		QTY	TM day
F-250 Pick up		1	1	T-180 Skid steer		1	1
F-150 Pick up		2	1	30 ton Dump truck		1	1
Tool trailer		2	1	4" fusion machine		1	1
				generator		1	1
210 excavator		1	1	8" fusion machine		1	1
650 Dozer		1	1				

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated trench from 10" stub out to EW-76 tied into existing 10" 4" 2"		
Reduced 10" to 6". Backfilled trench with sand trench tape and completed to grade.		
Dressed slopes and begin building 4" force main valves.		
6" 4" 2"	240	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/28/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
			generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated from EW-74 and 75 to tee point. Built installed 6" 4" 2" pipes		
To tie in at tee point. Backfilled with sand trench tape and finished to grade. Hauled		
Away waste. Hand dig around 10" tie in and clean out liquid with excavator.		
6" 4" 2"	580	LF
Time and material	5	Hrs

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 9/30/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
Electric fusion machine	1	1	generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1	6-18 fusion machine	1	1

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated around existing 10" valve. Unbolted pipe from valve and		
Removed valve. Pipe was full of sand on both sides of the valve. Broke away as much		
Sand as we could in the 10" pipe and jet clean the line down the 10" and 16" header.		
Line is clear. Installed new 10" valve and pipe. Installed new 4" and 2" airline. Hauled		
Scrap pipe and fitting to the face. Backfilled with sand trench tape and finished to grade.		
10" 4" 2" pipe	60	LF
10" valve, steam and 4" sample port	1	EA

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/1/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
Electric fusion machine	1	1	generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated and installed 6 4 2 pipes to EW-75 and 74. Backfilled with		
Sand trench tape and finished to grade. Hauled away waste and dressed slopes.		
Built new valves for CV-1 and AV-1.		
6" 4" 2" pipe	190	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/2/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	5		Tony Taylor	5	
Dustin Voils	5				
Troy Zerbe	5				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
Electric fusion machine	1	1	generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated and pinched off existing PVC air and drain valves. Cut away		
Old valves and installed new valves AV-1 and CV-1 Backfilled around valves		
AV-1	1	EA
CV-1	1	EA

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/4/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
Electric fusion machine	1	1	generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated and removed bollards from around AP-15. Removed well		
Head from 6" leachate clean out riser and cut 6" 10' away from tie in point. Excavated		
Around an cleaned off existing 8" 4" and 2". Tie in new 8x6 tee 4" tee and 2" tee.		
Installed new valve cluster AV-2 CV-2 and V-2. Backfilled around AP-15 and valve		
Cluster.		
6" 4" 2"	10	LF
AV-2	1	ea
CV-2	1	ea
V-2	1	ea

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.



# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/6/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
Electric fusion machine	1	1	generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Abandon EW-27 6" vacuum, 4" and 2". Backfilled excavation. Installed		
Well head on EW-77 and air and force main valves. Excavated around EW-26 Abandon		
2" air 4" force main and 6" vacuum. Excavated new lines 6" 4" and 2" to EW-26.		
Backfilled with sand trench tape and finished to grade. Excavated around EW- 25 cut		
And abandon 2" air and 4" force main.		
6" 4" 2"	40	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/7/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
Electric fusion machine	1	1	generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated leachate break outs on south lower berm by HC-8A 16' deep.		
Installed stone over waste and placed sand back into excavation. Placed bentonite		
Seal 3' deep where seep started. Excavated leachate seep by HC-11A 10' deep into		
Dry waste. Installed stone over waste and placed sand back into excavation. Placed		
Bentonite seal 3' deep where seep started. Excavate around HC-10A excavate 14'		
Deep. Leachate came rushing in backfilled trench to 8' deep. Capped 6" will have to		
Pump out excavation in the morning.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_  
 I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/8/21 Weather Rain

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	8		Tony Taylor	8	
Dustin Voils	8				
Troy Zerbe	8				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
Electric fusion machine	1	1	generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Pump down leachate around HC-10A shut existing 6" valve on u trap		
And confirmed no vacuum. Cut and capped 6" vacuum riser and 6" gas flow riser.		
Removed valve steam from valve. Backfilled area around abandonment. Excavated		
Around HC-8A removed temporary 6" vacuum line and 2" airline. Removed pump from		
U-trap. Shut existing 6" valve on u-trap and confirmed no vacuum. Cut and capped		
Gas flow and vacuum risers. Cut away existing valve steam. Backfilled area around		
Abandonment. Heavy rain started at 3:30.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/9/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	8		Tony Taylor	8	
Dustin Voils	8				
Troy Zerbe	8				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
Electric fusion machine	1	1	generator	1	1
210 excavator	1	1	8" fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: excavated around EW-25 and abandon vacuum line run new 6" 4" 2"		
From EW-77. Uncovered lines for tie in at EW-77 and made connections. Backfilled		
Trench with sand trench tape and finished to grade. Very muddy conditions 3.5" of rain		
Overnight.		
6 4 2	115	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES **DAILY LOG**

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/11/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Dressed areas that washed out from heavy rain. Litter lug around wells		
And trench lines. Cleaned up around all laterals. Laid out header line to move sump		
And lower line down slop to avoid future waste cover.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_  
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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/12/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated and installed 12" header from high point to 300'. Installed		
AP 24 and valve tee V-5. Backfilled trench with sand trench tape and finished to grade.		
12" 4" 2"	300	LF
AP 24	1	EA
V-5	1	ea
AV-5	1	ea
CV-5	1	ea

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/12/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	12		Tony Taylor	12	
Dustin Voils	12				
Troy Zerbe	12				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated and installed 12" header from high point to 300'. Installed		
AP 23 and valve tee V-4. Backfilled trench with sand trench tape and finished to grade.		
Installed road crossing backfilled and finished to grade.		
16" 4" 2"	240	LF
12" 4" 2"	120	LF
AP 23	1	EA
V-4	1	EA
AV-4	1	EA
CV-4	1	EA
24" CMP	60	LF
road base	2	EA

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/14/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated and installed 16" 4" and 2" 40' from sump location on south		
Slope and crossed over liner at 1%.. Backfilled with sand trench tape and finished to		
Grade. Finished berm on roadway.		
16" 4" 2"	350	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_  
 I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/15/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated and installed 12" 4" and 2" ' from high point to north east Slope. Backfilled with sand trench tape and finished to grade.		
12" 4" 2"	300	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.





# SCS FIELD SERVICES **DAILY LOG**

Job Name Volusia County      Job No. 12221017.00      Task No. \_\_\_\_\_      Date 10/18/21      Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				

Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Built and installed 6 pumps in wells EW=73,78, 77, 75, 76 and 79.		
Installed well heads on remaining wells. Installed air and force main valves on risers.		

Prepared By: Larry Taylor      Accepted By: \_\_\_\_\_  
 I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES **DAILY LOG**

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/19/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	8		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				

Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Built 16" tees and 12 "tees for valves and access points. Built 4" and 2"		
Valves and access risers.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/20/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor			Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Installed pump in condensate sump on south hill. Finished building		
Fittings for tie ins. Dropped 16' trailer off to be repaired.		
Time and material	3	HR
AP 4 short pump and fittings	1	EA

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.



# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/26/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated an installed 12" 4" and 2" header. Installed 10" 4" 2" valve 6.		
Installed access point 20. Backfilled with sand trench tape and finished to grade.		
12" 4" 2"	300	LF
10" 4" 2" valves	1	EA
12" access point	1	EA

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/27/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Excavated an installed 12" 4" and 2" header. Installed 10" 4" 2" valve 7.		
Installed access point 18. Backfilled with sand trench tape and finished to grade.		
12" 4" 2"	310	LF
10" 4" 2" valves	1	EA
12" access point	1	EA

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/28/21 Weather Rain

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	8		Tony Taylor	8	
Dustin Voils	8				
Troy Zerbe	8				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Called of concrete for sump due to weather. Welded 16" header to		
Close to sump. Installed AP 20 and welded caps on 16" 4" 2" for air test. Rain on and of		
All day. Heavy rain at 3:30. Performed H&S training.		
16" 4" 2"	100	LF
Ap-20	1	EA

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County      Job No. 12221017.00      Task No. \_\_\_\_\_      Date 10/29/21      Weather Cloudy

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe					
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Cleaned up laydown area. Took additional pipe and fittings to shop.		
Placed stickers on wells. Cleaned up pipe pieces on hill side. Installed 1" valves on 2"		
Air valves. Clean up finished on site.		

Prepared By: Larry Taylor      Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.



# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 10/30/21 Weather Cloudy

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	8		Tony Taylor	8	
Dustin Voils	8				
Troy Zerbe					
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1	4" fusion machine	1	1
			generator	1	1
210 excavator	1	1	Electric fusion machine	1	1
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Installed 180' of 4" from EW-52 to clean out riser at 16" header.		
Installed additional clean out riser on new line. Old 4" force main was blocked.		
4" pipe	180	LF
4" tee	2	EA
4" y	2	EA
2" 45	2	EA
2" flange b/u ring gasket and bolt kit	2	EA
4" electrofusion coupler	1	EA

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 11/1/21 Weather Cloudy

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor		
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: excavated and installed 36" sump 10' deep. Poured 10 yards 3,000 psi		
Concrete 5' around sump. Backfilled excavation to bottom of flanges and taped off area.		
Built pump for sump.		
1 36" Sump	1	EA

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 11/2/21 Weather Cloudy

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: excavated and installed 16" 4" and 2" header pipe. Connected to new		
Sump. Backfilled excavation with sand tape and finished to grade.		
10" 4" 2" Valve	1	EA
1 AP riser	1	EA
16" 4" 2"	240	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 11/3/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: excavated and installed 16" 4" and 2" header pipe to existing sump 13.		
Tie in was 8'. 6" deep. Tied in 16" to sump. Installed airline valve and tied into force		
Main.		
10" 4" 2" Valve	1	EA
16" 4" 2"	60	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 11/4/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	10		Tony Taylor	10	
Dustin Voils	10				
Troy Zerbe	10				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: excavated and installed 12" 4" and 2" header pipe to existing sump CS-9		
Tie in was 7' 6" deep. Tied in 12" to sump. Installed airline valve and tied into force		
Main.		
2" airline valve	1	EA
16" 4" 2"	60	LF

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

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# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 11/5/21 Weather Rain

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	8		Tony Taylor		
Dustin Voils					
Troy Zerbe	4				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4 (%-VOL)	CH4 (%-LEL)	O2 Low Scale (%-VOL)	CO2 (%-VOL)	H2S (PPM)
Model	S/N					

Work Summary	Quantity	Unit
Arrived on site: Cleaned up pipe and fitting around site. Heavy rain started around 11:00		
8.5 total inches of rain.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_  
 I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES

# DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 11/6/21 Weather Rain

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	5		Tony Taylor		
Dustin Voils					
Troy Zerbe	5				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	O2 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Pulled marker poles and disposed of. Placed stickers on wells and valves.		
Site to wet to finish grade work.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_

I understand that when performing a one person job assignment, I am acting as my own supervisor.

# SCS FIELD SERVICES DAILY LOG

Job Name Volusia County Job No. 12221017.00 Task No. \_\_\_\_\_ Date 11/8/21 Weather Sunny

SCS-FS Labors	Hours	OT	SCS-FS Labors	Hours	OT
Larry Taylor	5		Tony Taylor		
Dustin Voils					
Troy Zerbe	5				
Equip, SVCS, MLG	Qty	TM day	Equip, SVCS, MLG	QTY	TM day
F-250 Pick up	1	1	T-180 Skid steer	1	1
F-150 Pick up	2	1	30 ton Dump truck	1	1
Tool trailer	2	1			
210 excavator	1	1			
650 Dozer	1	1			

Instrument Calibration (Cal. Gas)		CH4	CH4	02 Low Scale	CO2	H2S
Model	S/N	(%-VOL)	(%-LEL)	(%-VOL)	(%-VOL)	(PPM)

Work Summary	Quantity	Unit
Arrived on site: Installed bollards around sump and valves. Backfilled slope on north and South corners. Job completed called off equipment.		

Prepared By: Larry Taylor Accepted By: \_\_\_\_\_  
I understand that when performing a one person job assignment, I am acting as my own supervisor.



## **HDR FIELD LOGS**

**Day & Date:**

Friday, September 3, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Anthony Lawless

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator
2. Kanishka Perera (HDR): Observed operations
3. United Rentals: Skid Steer repair

**Summary of Work:**

Completed EW-22B. Began drilling EW-15B.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	Began drilling EW-22B in the morning, completed to 105 feet. Placed 110 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil. Started drilling EW-15B, stopped at 35 feet. Covered well bore hole with well grate and covered with plastic. Set excavator bucket over hole.
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Vertical Well: EW-22B**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-2	Soil Cover	N/A	Dry	
2-10	Dirt/MSW	Slight	Dry	97 degrees F
10-20	Dirt/MSW	Slight	Dry	119 degrees F
20-30	Dirt/MSW	Slight	Dry	117 degrees F
30-40	Dirt/MSW	Slight	Dry	124 degrees F
40-50	Dirt/MSW/Wood	Slight	Dry	129 degrees F
50-60	Dirt/MSW/Wood	Slight	Dry	121 degrees F
60-70	Dirt/MSW	Slight	Dry	119 degrees F
70-80	Dirt/MSW	Slight	Dry	115 degrees F
80-90	Dirt/MSW	Slight	Wet	118 degrees F wet @ 86 ft
90-100	Dirt/MSW	Slight	Wet	114 degrees F
100-105	Dirt/MSW	Slight	Wet	117 degrees F

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	T-180 Skid Steer
Gator	
210 Excavator	

SIGNATURE: Amanda Meade  
TITLE: HDR CQA Lead



Misc. Notes & Pictures:



SIGNATURE: Amanda Meade  
TITLE: HDR CQA Lead





**Day & Date:**

Saturday, September 4, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny and Warm

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Anthony Lawless

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator

**Summary of Work:**

Completed EW-15B and tie-in to EW-22B.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	Bill continued drilling EW-15B. After 30 minutes, drill rig started pulling up sand at 35 feet, hole started caving, abandoned and backfilled with soil. Moved 15 feet east, started drilling new hole. Staged pipe, bentonite and water near EW-15B. Backfilled pipe with gravel, felt pad, bentonite activated with water, and soil.
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	Tie-in to EW-22B, 15 linear feet of new 6-inch, 4-inch and 2-inch pipe.
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Vertical Well: EW-15B**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-3	Soil Cover	N/A	Dry	
3-10	Dirt/MSW	Slight	Dry	94 degrees F
10-20	Dirt/MSW	Slight	Dry	108 degrees F
20-25	Dirt/MSW	Slight	Dry	106 degrees F wet @ 24-25 ft
25-37	Dirt	N/A	Dry	Caving from 32-37 feet – no progress

**Vertical Well: EW-15B**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-3	Soil Cover	N/A	Dry	
3-10	Dirt/MSW	Slight	Dry	102 degrees F
10-20	Dirt/MSW	Slight	Dry	96 degrees F
20-24	Dirt/MSW	Slight	Dry	
24-36	Sand	N/A	Dry	103 degrees F
36-40	Dirt/MSW	Slight	Dry	119 degrees F
40-50	Dirt/Plastic	N/A	Dry	123 degrees F
50-58	Dirt/Mulch	Slight	Dry	
58-60	Dirt/Mulch	Slight	Dry	129 degrees F
60-70	Dirt/MSW/Wood/Steel	Slight	Dry	128 degrees F wet @ 66-68 ft

SIGNATURE: Amanda Meade  
TITLE: HDR CQA Lead



70-80	Dirt/MSW/Mulch	Slight	Dry	133 degrees F wet @ 77-78 ft
80-90	Dirt/MSW/Wood	Slight	Dry	128 degrees F wet @ 84-86 ft
90-100	Dirt/MSW/Wood	Slight	Dry	130 degrees F wet @ 93-98 ft

Equipment Observed Onsite:	
F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

**Misc. Notes & Pictures:**



SIGNATURE: Amanda Meade  
 TITLE: HDR CQA Lead





SIGNATURE: Amanda Meade  
TITLE: HDR CQA Lead

**Day & Date:**

Monday, September 6, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Anthony Lawless
5. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator

**Summary of Work:**

Completed EW-71A and tie-in to EW-15B. Began drilling EW-74.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	Bill began drilling EW-71A, set and completed well. Placed 106 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil. Started EW-74, stopped at 70 feet. Covered well bore hole with well grate and covered with plastic. Set excavator bucket over hole.
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	Tie-in to EW-15B, 27 linear feet of new 6-inch, 4-inch and 2-inch pipe.
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Vertical Well: EW-71A**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-2	Soil Cover	N/A	Dry	
2-10	Dirt/MSW	Slight	Dry	89 degrees F wet @ 8-9 ft
10-20	Dirt/MSW	Slight	Dry	111 degrees F
20-30	Dirt/MSW	Slight	Dry	119 degrees F
30-40	Dirt/MSW	Slight	Dry	129 degrees F
40-50	Dirt/MSW/Mulch	Slight	Dry	131 degrees F
50-60	Dirt/MSW/Mulch	Slight	Dry	138 degrees F
60-70	Dirt/MSW/Mulch	Slight	Dry	139 degrees F
70-80	Dirt/MSW/Mulch	Slight	Dry	136 degrees F
80-90	Dirt/MSW	Slight	Wet	139 degrees F wet @ 89 ft
90-101	Dirt/MSW	Slight	Wet	131 degrees F

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator

SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead



T-180 Skid steer

Electrofusion machine

Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





**Day & Date:**

Tuesday, September 7, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny Morning; Rainy Afternoon; Lightning 2:30-3:30

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Anthony Lawless
5. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator
2. Pipe Delivery

**Summary of Work:**

Completed EW-74. Began drilling EW-75. SCS excavated existing lines at 13R for tie-in to 71B. Off lines ready for tie-in. SCS ran 875 feet of airline from EW-10 to CS-2 above grade on old south hill. Regulator will have to be replaced for pump.

**Detailed Description of Work:****Vertical Well Drilling**

Bill continued drilling EW-74, set and completed well. Placed 108 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil. Bill worked on his bucket – 2 shanks need hard coat welded on. Resumed drilling, started on EW-75. Heavy rain and lightning from 2:30-3:30. Continued drilling EW-75, stopped at 65 feet. Covered well bore hole with well grate and covered with plastic. Set excavator bucket over hole.

**Header Trench**

None

**Pipe Fusing**

None

**Waste Hauling**

Waste hauled from vertical well extraction was taken to the pit for proper disposal.

**Pressure Testing**

None

**Vertical Well: EW-71A**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-2	Soil Cover	N/A	Dry	
2-10	Dirt/MSW	Slight	Dry	89 degrees F wet @ 8-9 ft
10-20	Dirt/MSW	Slight	Dry	111 degrees F
20-30	Dirt/MSW	Slight	Dry	119 degrees F
30-40	Dirt/MSW	Slight	Dry	129 degrees F
40-50	Dirt/MSW/Mulch	Slight	Dry	131 degrees F
50-60	Dirt/MSW/Mulch	Slight	Dry	138 degrees F
60-70	Dirt/MSW/Mulch	Slight	Dry	139 degrees F
70-80	Dirt/MSW/Mulch	Slight	Dry	136 degrees F
80-90	Dirt/MSW	Slight	Wet	139 degrees F wet @ 89 ft
90-101	Dirt/MSW	Slight	Wet	131 degrees F

**Equipment Observed Onsite:**

F-250 Pick-up

30-ton Dump Truck

SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

**Misc. Notes & Pictures:**





SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead



**Day & Date:**

Wednesday, September 8, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny; Heavy rain 5:00 PM

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
2. Tony Taylor
3. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator

**Summary of Work:**

Completed EW-75, EW-73, and EW-77. Began drilling EW-76.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	Bill continued drilling EW-75, set and completed well. Placed 101 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil. Bill started on EW-73, set and completed well. Placed 43 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil. Bill started drilling EW-77, set and completed well. Placed 46 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil. Bill started drilling EW-76, stopped at 50 feet. Covered well bore hole with well grate and covered with plastic. Set excavator bucket over hole.
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Vertical Well: EW-75**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-2	Soil Cover	N/A	Dry	
2-10	Dirt/MSW	N/A	Dry	96 degrees F
10-20	Dirt/MSW	Slight	Dry	111 degrees F
20-30	Dirt/MSW	Slight	Dry	125 degrees F
30-40	Dirt/MSW	Slight	Dry	119 degrees F
40-50	Dirt/MSW	Slight	Dry	122 degrees F
50-60	Dirt/MSW	Slight	Dry	119 degrees F
60-70	Dirt/MSW	Slight	Wet	1117 degrees F wet @ 66 ft
70-80	Dirt/MSW	Slight	Dry	121 degrees F dry @ 77 ft
80-90	Dirt/MSW	Slight	Dry	124 degrees F
90-96	Dirt/MSW	Slight	Wet	119 degrees F wet @ 91 ft

**Vertical Well: EW-73**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-1	Soil Cover	N/A	Dry	

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1-10	Dirt/MSW	Slight	Dry	96 degrees F
10-20	Dirt/MSW	Slight	Dry	104 degrees F
20-30	Dirt/MSW	Slight	Wet	102 degrees F wet @ 28 ft
30-37	Dirt/MSW	Slight	Wet	97 degrees F

**Vertical Well: EW-77**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-2	Soil Cover	N/A	Dry	
2-10	Dirt/MSW/Mulch	Slight	Dry	101 degrees F wet @ 7-8 ft
10-20	Dirt/MSW/Mulch	Slight	Moist	100 degrees F
20-30	Dirt/MSW/Mulch	Slight	Moist	103 degrees F
30-41	Dirt/MSW	Slight	Dry	98 degrees F wet @ 34-36 ft

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

**Misc. Notes & Pictures:**



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 TITLE: HDR CQA Lead



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TITLE: HDR CQA Lead

**Day & Date:**

Thursday, September 9, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Cloudy Morning; Rain All Day

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator
2. Stone Delivery

**Summary of Work:**

Completed EW-76. Installed tee post over 20 feet along 875 feet of 2-inch from EW-10 to CS-2 above grade on old south hill pipe to avoid mower damage.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	Bill continued drilling EW-76, set and completed well. Placed 104 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil. Began drilling EW-78, stopped at 85 feet. Covered well bore hole with well grate and covered with plastic. Set excavator bucket over hole.
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Vertical Well: EW-76**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-5	Soil Cover/Mulch	N/A	Dry	
5-10	MSW	N/A	Dry	108 degrees F
10-20	MSW	N/A	Dry	102 degrees F
20-30	MSW/Mulch	Slight	Dry	107 degrees F
30-40	MSW/Mulch	Slight	Dry	124 degrees F
40-50	Dirt/MSW	Slight	Dry	122 degrees F
50-60	Dirt/MSW	Slight	Dry	119 degrees F
60-70	Dirt/MSW	Slight	Dry	111 degrees F
70-80	Dirt/MSW	Slight	Dry	114 degrees F
80-90	Dirt/MSW	Slight	Dry	116 degrees F
90-99	Dirt/MSW/Wood	Slight	Dry	107 degrees F

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator

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T-180 Skid steer	Electrofusion machine
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**Misc. Notes & Pictures:**



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SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Friday, September 10, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Cloudy Morning; Sporadic Rain

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator
2. Pipe Delivery

**Summary of Work:**

Completed EW-78 and EW-79.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	Bill continued drilling EW-78, set and completed well. Placed 101 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil. Began drilling EW-79, set and completed well. Placed 108 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil.
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Vertical Well: EW-78**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-3	Soil Cover	N/A	Dry	
3-10	Dirt/MSW/Mulch	N/A	Dry	102 degrees F
10-20	Dirt/MSW/Mulch	N/A	Dry	105 degrees F
20-30	MSW/Mulch	Slight	Dry	107 degrees F
30-40	MSW/Mulch	Slight	Dry	117 degrees F
40-50	MSW/Mulch	Slight	Dry	122 degrees F wet @ 47-48 ft
50-60	Dirt/MSW/Mulch	Slight	Wet	120 degrees F wet @ 557 ft
60-70	Dirt/MSW	Slight	Moist	119 degrees F
70-80	Dirt/MSW	Slight	Dry	116 degrees F
80-90	Dirt/MSW	Slight	Dry	117 degrees F
90-96	Dirt/MSW	Slight	Dry	114 degrees F wet @ 91 ft

**Vertical Well: EW-79**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-2	Soil Cover	N/A	Dry	
2-10	MSW/Mulch	N/A	Dry	102 degrees F
10-20	MSW/Mulch	N/A	Dry	119 degrees F
20-30	MSW/Mulch	Slight	Dry	121 degrees F

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30-40	MSW/Mulch	Slight	Dry	127 degrees F
40-50	MSW/Mulch	Slight	Dry	131 degrees F
50-60	Dirt/MSW	Slight	Dry	136 degrees F
60-70	Dirt/MSW	Slight	Moist	127 degrees F
70-80	Dirt/MSW	Slight	Dry	120 degrees F
80-90	Dirt/MSW	Slight	Dry	121 degrees F
90-103	Dirt/MSW	Slight	Wet	119 degrees F wet @ 101 ft

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

**Misc. Notes & Pictures:**







SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Saturday, September 11, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Cloudy Morning; Sporadic Rain

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator

**Summary of Work:**

Drilled EW-80 to 20 feet. Hydraulic line on rig burst. Repair scheduled for Monday 9/13.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	Began drilling EW-80, stopped at 20 feet. Hydraulic line on rig burst. Nowhere open today to get repaired.
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	Welded 6-inch pipe.
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Monday, September 13, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator

**Summary of Work:**

Hydraulic line on rig repaired. Drilled EW-80 to 90 feet. Welded 6-inch pipe, 4-inch pipe, air valves and forcemain valves for tie-ins.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	Continued drilling EW-80, stopped at 90 feet. Covered well bore hole with well grate and covered with plastic. Set excavator bucket over hole.
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	Welded 6-inch pipe, 4-inch pipe, air valves and forcemain vales for tie-ins.
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



**Day & Date:**

Tuesday, September 14, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny and Warm

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Bill (B.H. Drilling): Well Drilling Operator

**Summary of Work:**

Completed EW-80 and tie-in to EW-71A.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	Continued drilling EW-80, set and completed well. Placed 105 feet of pipe, backfilled with gravel, felt pad, bentonite activated with water, and soil.
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	Excavated and cleaned off lines at EW-13R. Tied in 6-inch line and run to EW-71A. Excavated 4-inch and 2-inch lines at existing EW-71 and moved to EW-71A. Backfilled with sand, trench tape, and finished to grade.
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Vertical Well: EW-80**

<u>Depth</u>	<u>Composition</u>	<u>Degree of Decomposition</u>	<u>Moisture</u>	<u>Comments</u>
0-2	Soil Cover	N/A	Dry	
2-10	Dirt/MSW/Mulch	N/A	Dry	88 degrees F
10-20	MSW/Mulch	Slight	Dry	108 degrees F
20-30	Dirt/MSW	Slight	Dry	122 degrees F
30-40	Dirt/MSW	Slight	Dry	129 degrees F
40-50	Dirt/MSW	Slight	Dry	119 degrees F
50-60	Dirt/MSW	Slight	Dry	125 degrees F
60-70	Dirt/MSW	Slight	Dry	129 degrees F
70-80	Dirt/MSW	Slight	Dry	126 degrees F
80-90	Dirt/MSW	Slight	Dry	121 degrees F
90-100	Dirt/MSW	Slight	Moist	109 degrees F wet @93-94 ft

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	Drill Rig
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Wednesday, September 22, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

Tie-in to EW-80.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	Excavated around EW-49 and exposed 6-inch, 4-inch, and 2-inch pipe. Excavated trench to EW-80. Tied into existing lines and installed new 6-inch, 4-inch, and 2-inch pipe. Backfilled trench with sand, trench tape, and finished to grade. Excavated around EW-50 and exposed 6-inch, 4-inch, and 2-inch for tie-in.
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Thursday, September 23, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

Tie-in to EW-79. Hauled sand to EW-71A and EW-22B and graded areas.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	Excavated around EW-50 and exposed 6-inch, 4-inch, and 2-inch pipe. Excavated trench to EW-79. Tied into existing lines and installed new 6-inch, 4-inch, and 2-inch pipe. Backfilled trench with sand, trench tape, and finished to grade. Excavated around 4-inch condensate at EW-22B cut and lowered tee to protect piping.
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

**Day & Date:**

Monday, September 27, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

Tie-in to EW-76. Backfilled trench with sand, trench tape, and completed to grade. Dressed slopes

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	Excavated trench from 10-inch stub out to EW-76 tied into existing 10-inch, 4-inch and 2-inch lines. Reduced 10-inch to 6-inch. Began building 4-inch forcemain valves.
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





**Day & Date:**

Wednesday, September 29, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Volusia County Staff

**Summary of Work:**

Excavated around 10-inch x 6-inch tees and cleaned out area. SCS drilled a pin hole in the 10-inch and discovered there was no vacuum between the tees. SCS then cut the 10-inch and discovered the pipe was full of sand. SCS cut away the 10-inch x 6-inch tees, capped two 6-inch lines that were abandoned and removed 10-inch lines and tees. Welded on 10-inch cap for abandonment to Hc-b2, b3, b4, b5, and b6. Excavated to existing 10-inch valve.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	Welded on 10-inch cap for abandonment to Hc-b2, b3, b4, b5, and b6.
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead



**Day & Date:**

Thursday, September 30, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Volusia County Staff

**Summary of Work:**

Excavated around existing 10-inch valve, unbolted pipe from valve and removed valve. Pipe was full of sand on both sides of the valve. Volusia County staff jet cleaned the 10-inch pipe and 16-inch header. Line cleared and installed new 10-inch valve and pipe. SCS Field Services also installed new 4-inch and 2-inch, backfilled with sand, trench tape and finished to grade.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	10-inch pipe and valve. New 4-inch and 2-inch lines
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





**Day & Date:**

Tuesday, October 5, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

Excavated and installed 6-inch, 4-inch, and 2-inch to well from valve cluster to well EW-77. Excavated around existing EW-27 and cleaned around pipes for abandonment. Backfilled trench with sand, trench tape, and finished to grade.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



**Day & Date:**

Wednesday, October 6, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

Abandoned EW-27 6-inch vacuum, 4-inch and 2-inch. Backfilled excavation. Installed wellhead on EW-77 and air and force main valves. Excavated around EW-26 abandoned 6-inch vacuum, 4-inch and 2-inch. Excavated new lines 6-inch, 4-inch and 2-inch to EW-26. Backfilled with sand, trench tape, and finished to grade. Excavated around EW-25, cut and abandoned 2-inch and 4-inch.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

**Day & Date:**

Thursday, October 7, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

SCS responded to leachate breakouts on south lower berm by HC-8A 16 feet deep. SCS installed stone over waste, placed sand back into excavation, and placed bentonite seal 3 feet deep where seep started. SCS responded to a leachate seep by HC-11A, 10 feet deep into dry waste. SCS installed stone over waste, placed sand back into excavation, and placed bentonite seal 3 feet deep where seep started. SCS responded to a leachate seep around HC-10A. SCS excavated 14 feet deep. The leachate came rushing in backfilled trench to 8 feet deep. SCS capped the 6-inch pipe, plans to pump out excavation in the morning.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead



**Day & Date:**

Monday, October 11, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

SCS dressed areas that washed out from heavy rain. Laid out header line to move sump and prepped for header trench excavation for Tuesday, 10/12. Discussion to move sump location and header line placement down slope to avoid future waste cover.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

**Misc. Notes & Pictures:**

SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Tuesday, October 12, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

SCS began the header trench, excavated and installed 12-inch header from the high point south down the hill to 300 feet. This included excavation, hauling waste, placement of 12-inch header pipe, 4-inch force main pipe, 2-inch air supply line and backfill.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	300 feet of header excavated. Survey site tubes were set. Backfilled trench with sand, trench tape, and finished to grade. Installed access point 24 and valve tee V-5.
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

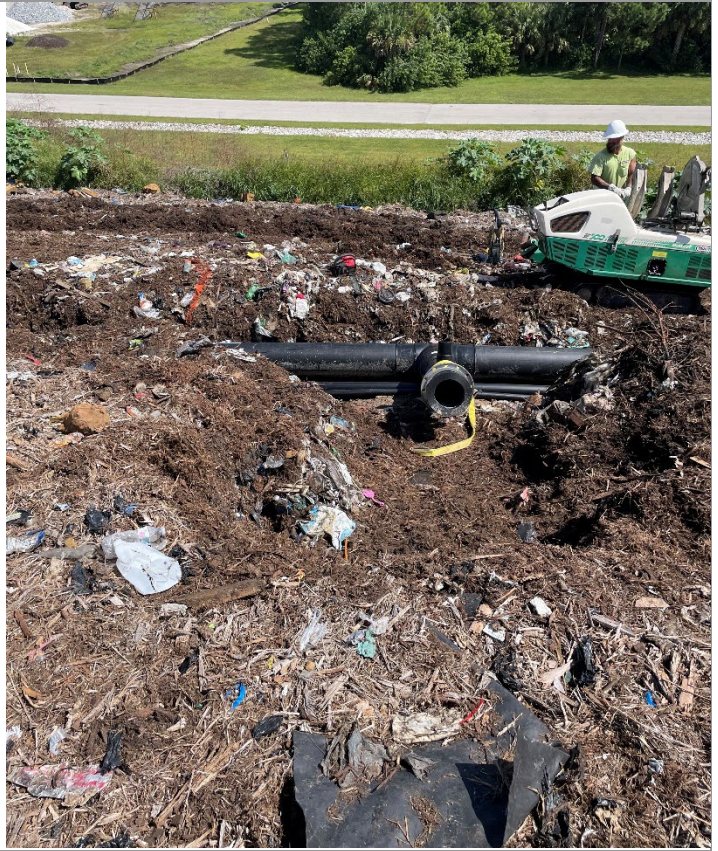
**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead



**Day & Date:**

Wednesday, October 13, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

SCS continued with the header trench. This entailed excavation, hauling waste, placement of 12-inch pipe, 4-inch force main pipe, 2-inch air supply line and backfill. SCS completed an additional 200 feet continuing down the hill south. SCS stayed after facility closing time to conduct pipe road crossing.

**Detailed Description of Work:**

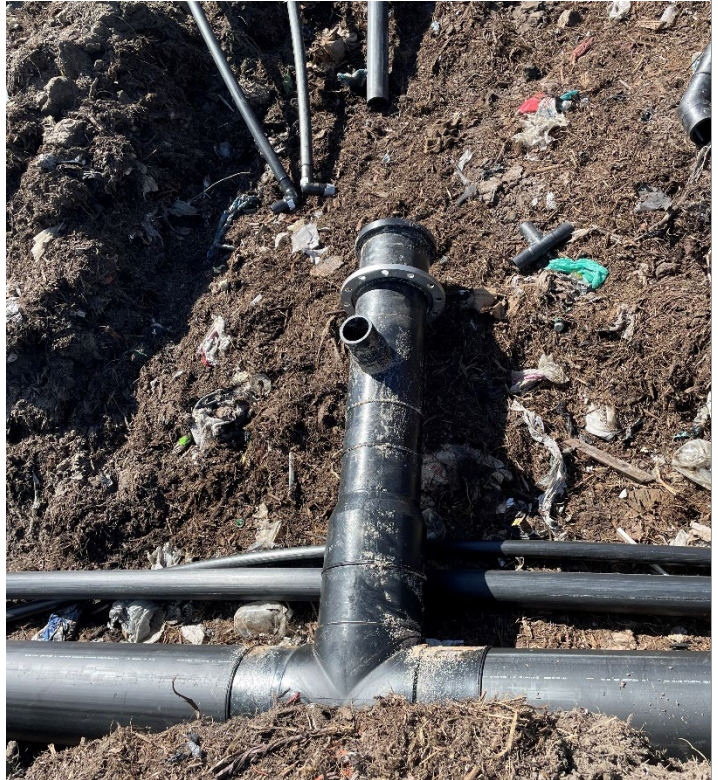
<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	200 feet of header excavated. Survey site tubes were set. Backfilled trench with sand, trench tape, and finished to grade. Installed access point 23 and valve tee V-4.
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

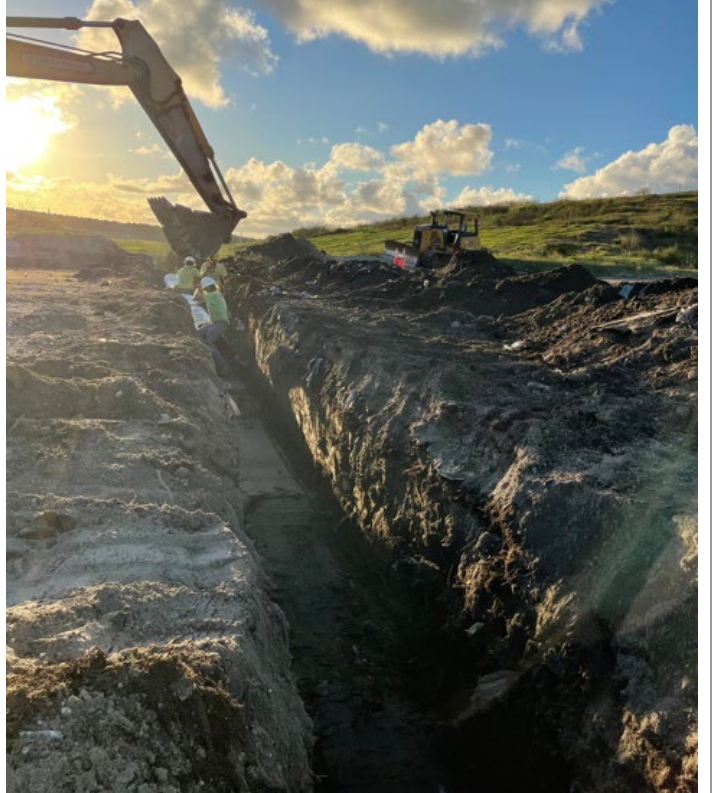


Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





**Day & Date:**

Thursday, October 14, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

SCS continued with the header trench. Excavated and installed 16-inch header pipe, 4-inch, and 2-inch.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	40 feet of header excavated from sump location on south slope. Crossed over liner at 1%. Survey site tubes were set. Backfilled trench with sand, trench tape, and finished to grade.
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	4-inch Fusion Machine
Tool Trailer (2)	8-inch Fusion Machine
Gator	Generator
210 Excavator	
T-180 Skid steer	

SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Friday, October 15, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

SCS continued with the header trench. Excavated and installed 12-inch header pipe, 4-inch, and 2-inch.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	300 feet of header excavated from high point to north east. Survey site tubes were set. Backfilled trench with sand, trench tape, and finished to grade.
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	Waste hauled from vertical well extraction was taken to the pit for proper disposal.
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Monday, October 18, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

Built and installed 6 pumps for wells EW-73, EW-78, EW-77, EW-75, EW-76, and EW-79. Installed well heads on remaining wells. Installed air and forcemain valves on risers.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead



**Day & Date:**

Tuesday, October 19, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

Built 16-inch tees and 12-inch tees for valves and access points. Built 4-inch and 2-inch valves and access risers.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	None
<b>Pipe Fusing</b>	16-inch and 12-inch tees for header trench
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead



<b>Day &amp; Date:</b>
Tuesday, October 26, 2021

<b>Project Name &amp; Location:</b>
Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

<b>Weather:</b>
Sunny

<b>SCS Construction Team Members on Site:</b>	<b>Relevant Visitors to Observed Work Areas:</b>
1. Larry Taylor	
2. Dustin Voils	
3. Tony Taylor	
4. Troy Zerbe	

<b>Summary of Work:</b>
Excavated and installed 12-inch, 4-inch, and 2-inch header. Installed 10-inch, 4-inch, and 2-inch valve 6. Installed access point 20. Backfilled with sand trench tape and finished to grade.

<b>Detailed Description of Work:</b>	
<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	300 feet of header excavated from high point to north east. Survey site tubes were set. Backfilled trench with sand, trench tape, and finished to grade.
<b>Pipe Fusing</b>	12-inch header pipe, 4-inch forcemain and 2-inch air line
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

<b>Equipment Observed Onsite:</b>	
F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

**Misc. Notes & Pictures:**



SIGNATURE: Chelsea Williams  
 TITLE: HDR CQA Lead





**Day & Date:**

Thursday, October 28, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sporadic rain all morning; Heavy rain 3:30

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:****Summary of Work:**

Welded 16-inch header at south end of hill near sump location. Installed access point 20 and welded caps on 16-inch, 4-inch forcemain, and 2-inch air supply line for pressure test.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	100 feet of 16-inch header near sump location
<b>Pipe Fusing</b>	Welded caps on pipe for pressure test
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

**Misc. Notes & Pictures:**

SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead



**Day & Date:**

Monday, November 1, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Cloudy

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Daytona Ready Mix – Concrete for sump
2. Air compressor delivery

**Summary of Work:**

Excavated and installed 36-inch sump 10 feet deep. Poured 10 cubic yards of concrete 5 feet around sump. Backfilled excavation to bottom of flanges and taped off area. Built pump for sump.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	Sump installation
<b>Pipe Fusing</b>	None
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine

Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Tuesday, November 2, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Cloudy

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Smith Survey Group, Inc.

**Summary of Work:**

Excavated and installed 16-inch header pipe, 4-inch forcemain and 2-inch air supply line. Connected to new sump. Backfilled excavation with sand, tape, and finished to grade.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	240 feet of 16-inch header pipe, 4-inch forcemain and 2-inch air supply line
<b>Pipe Fusing</b>	16-inch header to sump
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Wednesday, November 3, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Smith Survey Group, Inc.

**Summary of Work:**

Excavated and installed 16-inch header pipe, 4-inch forcemain and 2-inch air line to existing sump CS-13. Tie in was 8 feet and 6 inches deep. Tied in 16-inch header pipe to sump. Installed airline valve and tied into forcemain.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	60 feet of 16-inch, 4-inch and 2-inch header line
<b>Pipe Fusing</b>	16-inch to sump
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead





SIGNATURE: Chelsea Williams  
TITLE: HDR CQA Lead

**Day & Date:**

Thursday, November 4, 2021

**Project Name & Location:**

Tomoka Farms Road Landfill Phase VI Construction; 1990 Tomoka Farms Road Volusia County, Florida

**Weather:**

Sunny

**SCS Construction Team Members on Site:**

1. Larry Taylor
2. Dustin Voils
3. Tony Taylor
4. Troy Zerbe

**Relevant Visitors to Observed Work Areas:**

1. Kanishka Perera (HDR) – Final Walkthrough

**Summary of Work:**

Excavated and installed 12-inch, 4-inch and 2-inch header pipe to existing sump CS-6. Tie in was 7 feet and 6 inches deep. Tied in 12-inch to sump. Installed airline valve and tied into forcemain.

**Detailed Description of Work:**

<b>Vertical Well Drilling</b>	None/Completed
<b>Header Trench</b>	Tied in 12-inch header to sump.
<b>Pipe Fusing</b>	Tied in 12-inch header to sump. Tie-in to forcemain pipe.
<b>Waste Hauling</b>	None
<b>Pressure Testing</b>	None

**Equipment Observed Onsite:**

F-250 Pick-up	30-ton Dump Truck
F-150 Pick-up (2)	
Tool Trailer (2)	4" fusion machine
Gator	8" fusion machine
210 Excavator	Generator
T-180 Skid steer	Electrofusion machine



Misc. Notes & Pictures:



ATTACHMENT E  
Construction Photographs





Vertical Well Installation



Vertical Well, Forcemain and Air Line



Vertical Well Installation



Vertical Well Installation





Sump Installation CS-12



16-inch Header Connection with CS-12



16-inch Header Connection to CS-13



16-inch Header Line Connection to CS-13





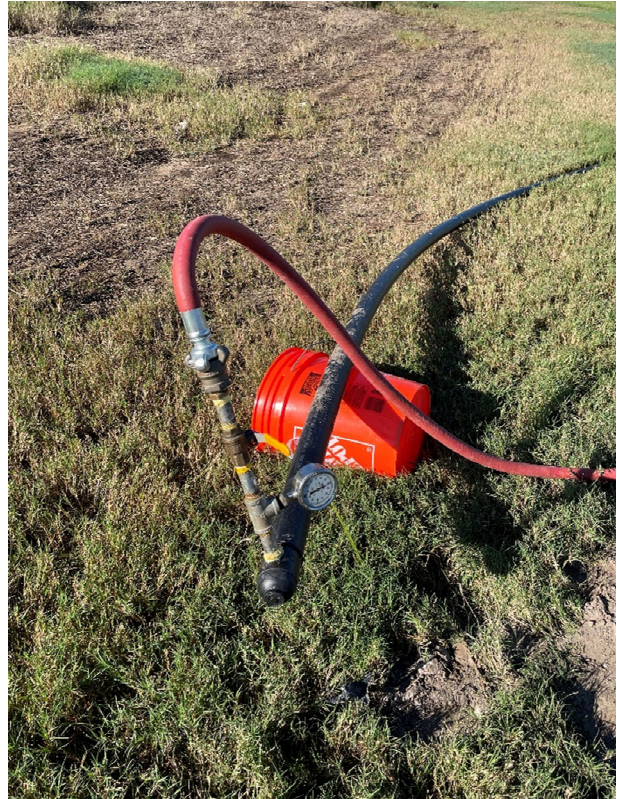
12-inch Header Connection to CS-9



12-inch Header Connection to CS-9



Pressure Testing Header Lines



Pressure Testing Header Lines





Header Trench



Valve Pit and Access Point in Header