



**BRIDGETON LANDFILL, LLC.**

**CONSTRUCTION QUALITY ASSURANCE  
ACCEPTANCE REPORT**

**2021 SVE INSTALLATION**

**BRIDGETON, ST. LOUIS COUNTY, MISSOURI**

**Prepared For:**

**Bridgeton Landfill, LLC.  
13570 St. Charles Rock Road  
Bridgeton, MO 63044**

**April 2021**

**Project No.: BT-209-21**

**Prepared By:**

**Feezor Engineering, Inc.  
3377 Hollenberg Drive  
Bridgeton, MO 63044**



*Daniel R. Feezor*  
4/23/21

---

**CONSTRUCTION QUALITY ASSURANCE  
ACCEPTANCE REPORT**

**2021 SVE INSTALLATION**

**BRIDGETON LANDFILL, LLC**

**BRIDGETON, SAINT LOUIS COUNTY, MISSOURI**

Prepared for

Bridgeton Landfill, LLC

APRIL 2021

Prepared by

Feezor Engineering, Inc.  
3377 Hollenberg Drive  
Bridgeton, MO 63044

BT-209-21

## CONTENTS

---

<b>1</b>	<b>INTRODUCTION</b>	<b>2</b>
1.1	Overview of Project	2
<b>2</b>	<b>CONSTRUCTION DOCUMENTS</b>	<b>3</b>
2.1	Construction Drawings	3
<b>3</b>	<b>SVE INSTALLATION</b>	<b>4</b>
3.1	SVE Wells Installation	4
3.2	Condensate Sump Installation	4
3.3	SVE Wells Surface Completions	5
3.4	Construction Quality Assurance	5
<b>4</b>	<b>SURVEY CONTROL</b>	<b>7</b>
4.1	Construction Surveying	7
4.2	Final As-built Surveying	7
<b>5</b>	<b>CERTIFICATION</b>	<b>8</b>

## LIST OF APPENDICES

---

- A. Field Information**
  - A.1 Daily Summary Reports**
  - A.2 Equipment Log**
  
- B. Installation Information**
  - B.1 As-Built Well Logs**
  - B.2 Pipeline Pressure Testing Results**
  
- C. Construction Certification Drawings (Reduced Set)**
  - Drawing 000** Title Page
  - Drawing 001** Site Plan
  - Drawing 002** SVE Installation Plan View
  - Drawing 003** Details 1
  - Drawing 004** Details 2

# 1 INTRODUCTION

---

## 1.1 Overview of Project

Bridgeton Landfill, LLC is a closed municipal solid waste facility located at 13570 St. Charles Rock Road, Bridgeton, St. Louis County, Missouri. The facility is owned and operated by Bridgeton Landfill, LLC (BL) who operate the facility pursuant to Permit No. 118912 (and subsequent modifications), issued by the Missouri Department of Natural Resources (MDNR).

During the 2021 construction season, BL installed (7) seven Soil Vapor Extraction (SVE) Wells. Bulldog Drilling based in Dupon, Illinois was selected as the driller for the project. Hunt Environmental Services of St. Louis, Missouri and Fusion Solutions Inc. of Carlinville, IL, were chosen to provide support and piping installation during the project. Feezor Engineering Inc. (FEI) of Bridgeton, Missouri, provided the initial and record surveying to document the location of the installed SVE Wells and associated GCCS piping.

FEI was also selected as the Construction Quality Assurance (CQA) consultant to observe and document the construction of the SVE System. Daniel R. Feezor, P.E. of FEI was the Construction Quality Assurance Officer (CQAO). Mr. Feezor selected Andrew Roberts, Dane Hale, and Brad Vits to be the CQA technicians.

## 2 CONSTRUCTION DOCUMENTS

---

### 2.1 Construction Drawings

Tetra Tech created a detailed set of construction drawings for this project. These drawings provided the detail to properly construct all the necessary project components. Construction drawings were also used for the proper selection of materials and to provide adequate detail for the installation of the SVE system.

## 3 SVE INSTALLATION

---

### 3.1 SVE Wells Installation

Seven (7) SVE Wells were installed in the area around existing temporary monitoring probes TMP-1S, TMP-3S and TMP-3M, per the approved Soil Gas Monitoring Corrective Action Plan prepared by Tetra Tech. Bulldog drilled the wells utilizing a CME-750X hollow stem auger drill rig. FEI observed and documented the drilling process. This process included drilling a 10" diameter borehole down to the soil/bedrock interface. Field Reports are presented in **Appendix A.1**.

During drilling, at a few of the locations, after final depth was obtained it was discovered that a sand heave had occurred. To remedy this issue, Bulldog utilized a Quick Dispersing Guar Gum product called Variflo QD manufactured by CETCO to suspend the sand material in the fluid and allow for easier cleanout by flushing with water. After cleanout was complete, final depth measurements were taken to reconfirm total depth.

Well piping consisted of 6-in. SCH 40 PVC solid and 20 slot screen casing. The pipe sections were hand threaded together by Bulldog. A low-pressure threaded flat PVC cap was installed at the bottom of each well casing.

The pipe was raised using a winch on the drill rig and lowered into the borehole to the appropriate depth. Granular backfill consisted of ¼-in. to ⅜-in. pea stone. The gravel was placed to a point approximately six (6) inches above the slotted pipe. A 2-ft bentonite seal was then placed above the aggregate. Water was added to the layers of bentonite to adequately hydrate the seal. A 10-in. dia. steel protective casing was then installed around the well a minimum of 2 ft below ground surface to approx. 1.5 ft above ground surface. The remainder of the borehole inside the installed steel casing was then backfilled with a minimum 3.5 ft concrete plug to the top of installed steel casing.

The as-built well depths and well construction details are shown on the as-built well logs in **Appendix B.1**.

A 2-in. diameter well head was installed and connected to the gas header system via lateral piping by Fusion Solutions Inc.

### 3.2 Condensate Sump Installation

An 18-in. diameter condensate sump was installed as part of the SVE system to handle potential condensate generated during operation.

Install location was hydro excavated by Hunt Environmental Services to a minimum utility clearance depth. After this depth was reached, Fusion used a CAT 320 excavator to excavate the area necessary for the installation of the sump. Once the desired excavation depth was achieved, the sump was installed in accordance with design. A total of approx. 2 cubic yards (CY) of concrete

was backfilled around the installed sump. The remainder of the excavation was then backfilled with clean soil.

Landfill gas headers from the existing system were plumbed to the appropriate inlets of the condensate sump as described in **Section 2.2**.

Pumping systems will be installed as needed by BL at a later date.

### **3.3 SVE Wells Surface Completions**

After all locations were completed, Bulldog installed 8-in. dia. Sch. 40 steel bollards surrounding each location. Each bollard was buried to a minimum 3.5 ft below ground surface and backfilled with concrete. Bollards will be painted yellow by BLF at a later date.

### **3.4 Construction Quality Assurance**

#### **3.4.1 Construction Oversight**

The construction technician inspected all materials for the SVE system. This included piping, valves, fittings, and backfill material to ensure that these materials were acceptable and consistent with the construction plans. The construction technician inspected the materials to be constructed of HDPE pipe to determine if the materials meet the following requirements:

- All PVC/HDPE pipe was new, or first quality, and was furnished at lengths as indicated on the approved design plans. All PVC/HDPE piping was straight and generally free from imperfections.
- The PVC/HDPE pipe and fittings had a minimum Standard Dimension Ratio (SDR) as noted on the design plans.

During installation of the SVE system, the construction technician documented that the construction adhered to the plans and specifications. This included:

- Pipe and appurtenances were installed true to line, grade, and location with the pipe supported and restrained against movement with all valve stems plumb.
- The pipe joints were butt fused as recommended by the pipe manufacturer, except where flanged joints or electro-fusion couplers were specified on the approved design plans. Shavings from the preparation of pipe ends for fusion were removed from the pipe prior to installation.

During storage, the technician documented that pipes and fittings were stacked so as to prevent damage by marring, crushing or puncture. Maximum stacking height was limited to 6 ft.



The technician recorded applicable test data, areas of construction, problems and remedies, construction equipment and methodologies, survey data, and equipment calibration on the Daily Summary Reports and the Daily Inspection Reports, which are presented in **Appendix A.1**.

### **3.5 System Evaluation**

#### **3.5.1 Testing Responsibilities**

Field-testing of the gas management system consisted of pressure testing the new header, force-main, and airline piping. The pressure testing was performed by Fusion and documented by FEI.

#### **3.5.2 Testing Procedures**

Pressure testing was completed in accordance with the Republic LFG SOP.

#### **3.5.3 Testing Results**

All tests resulted in meeting or exceeding minimum pressure testing criteria. Pressure testing data is included in **Appendix B.2**.

## 4 SURVEY CONTROL

---

### 4.1 Construction Surveying

Feezor Engineering Inc. of Bridgeton, Missouri, provided surveying services.

### 4.2 Final As-built Surveying

Feezor Engineering Inc. of Bridgeton, Missouri provided the final certification survey for the as-built coordinates of the installed SVE Wells.

## 5 CERTIFICATION

---

I, Daniel R. Feezor, P.E., do hereby certify to my best knowledge and belief, that the 2021 SVE Installation at the Bridgeton Landfill was performed in accordance with the construction documents.

## **Appendix A**

### **FIELD INFORMATION**

#### **Sub-Appendices**

**A.1** Daily Summary Reports

**A.2** Equipment List

## **Sub-Appendix A.1**

### **Daily Summary Reports**

**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>1/20/2021</u>
<b>Contractor(s):</b> <u>Hunt Environmental Services</u>	<b>Report No.:</b> <u>1</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>22</u> PM <u>43</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.

0745 – Hunt is beginning hydro excavation of planned SVE well locations. Locations will be cleared to a depth below possible utilities to be encountered (8-10').

This work is ongoing.

1200 – Lunch

1230 – Work Resumes with same process as morning.

1600 – Work stops for day. Left Site.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

*Arron Welch*

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



**Daily Field Summary Report**

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>1/21/2021</u>
<b>Contractor(s):</b> <u>Hunt Environmental Services</u>	<b>Report No.:</b> <u>2</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>-</u>	
<b>Temperature:</b> AM <u>35</u> PM <u>-</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.  
0745 – Hunt is preparing to continue hydro excavation for utility clearance at proposed SVE locations.  
0815 – Hunt begins hydro excavation at SVE-5.  
0830 – Evidence of previous hydro excavation discovered from SVE pre-investigation project. Location deemed cleared of utilities.  
Hunt begins hydro excavation at estimated header crossing of existing landfill infrastructure.  
0930 – Existing 12” header, 2”x4” FM and 2” airline located. I collected as-built location of utilizing Trimble R8S VRS GPS rover for future reference.  
1000 – Hunt is now beginning to hydro excavate at SVE-2.  
1030 – Large aggregate obstruction encountered at 6.5’. BLF was notified and decided location deemed cleared.  
1100 - Utility clearance work is complete. Hunt and I left site.

**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/1/2021</u>
<b>Contractor(s):</b> <u>Hunt Environmental Services</u>	<b>Report No.:</b> <u>3</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>30</u> PM <u>35</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.  
0745 – Bulldog is setup and beginning drilling at SVE-02 with CME hollow stem auger.  
1230 – Drill at SVE-02 has reached design depth at bedrock.  
1330 – Bulldog is working to set casing pipe and annular backfill of the well.  
1600 – Bulldog has completed approx. 90% of annular backfill for SVE-02. Work will resume tomorrow.  
1630 – Left Site  
Note: See Well logs for specific construction details.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:



Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



**Daily Field Summary Report**

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/2/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling</u>	<b>Report No.:</b> <u>4</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>27</u> PM <u>37</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0735 – Bulldog is continuing installation of annular backfill and upper steel casing pipe.  
1130 – Annular backfill and steel casing pipe installed. Concrete will be installed later. Bulldog is now setting up at SVE-05.  
1230 – Bulldog begins drilling SVE-05 with CME hollow stem auger rig.  
1600 – Bulldog has reach design depth at bedrock in SVE-05. Will cleanup work area and begin annular backfill tomorrow.  
1630 – Left Site  
Note: See Well logs for specific construction details.

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/3/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling</u>	<b>Report No.:</b> <u>5</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>23</u> PM <u>42</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0730 – Bulldog is beginning annular backfill at SVE-05.  
1200 – Lunch  
1230 – Work Resumes  
1500 – Annular backfill and steel casing pipe installation complete at SVE-05. Upper concrete backfill will be completed at a later date.  
1530 – Left Site  
Note: See Well logs for specific construction details.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/4/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling</u>	<b>Report No.:</b> <u>6</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>28</u> PM <u>43</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.

0730 – Bulldog is setting up rig at SVE-06.

0830 – Bulldog begins drilling SVE-06 with CEM hollow stem auger rig.

1140 - Bulldog has reached design depth at bedrock. Bulldog is preparing to set casing pipe in SVE-06.

1200 – While attempting to set casing pipe, it has been discovered that sand material has heaved in the bottom of the borehole. After discussions with BLF, Bulldog is collecting supplies and preparing to flush borehole of sandy material.

1530 – Work stops for day. Bulldog will begin flushing of sandy material tomorrow morning.

Note: See Well logs for specific construction details.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/5/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling, Baker</u>	<b>Report No.:</b> <u>7</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>24</u> PM <u>42</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0730 – Bulldog is working to flush sandy material from the bottom of the SVE-06 borehole.  
0800 – Baker is on site to user ground penetrating radar (GPR) to identify and unknown utilities in project area prior to beginning trenching of system piping.  
0900 – Baker has completed GPR utility locate. Left Site.  
1200 – Lunch  
1230 – Work Resumes.  
1500 – Purge of sandy material from the SVE-06 borehole complete. Bulldog is setting the casing pipe and beginning annular backfill.  
1630 – Work stops for day. Left Site  
Note: See Well logs for specific construction details.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/8/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling, Baker</u>	<b>Report No.:</b> <u>8</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>16</u> PM <u>23</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.

0730 – Bulldog is continuing annular backfill at SVE-06. Upper steel casing pipe will also be installed during this process.

1130 – Bulldog has completed annular backfill at SVE-06. Upper concrete backfill will occur at a later date.

1200 - Lunch

1230 – Work Resumes.

1300 – Bulldog is working to relocate rig to SVE-04. Remainder of day will be spent cleaning up and preparing to begin SVE-04 drilling tomorrow.

1630 – Work stops for day. Left Site

Note: See Well logs for specific construction details.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/9/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling, Baker</u>	<b>Report No.:</b> <u>9</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>13</u> PM <u>21</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.  
0900 – Bulldog is beginning to drill SVE-04 with CME hollow stem auger rig.  
1130 – Bulldog has reached designed bedrock depth at SVE-04. Casing and backfill will begin after lunch.  
1200 - Lunch  
1330 – Work Resumes.  
1500 – Sand material has been discovered in bottom of SVE-04 borehole. Bulldog will gather required supplies in preparation for flushing of borehole tomorrow.  
1600 – Work stops for day. Left Site  
Note: See Well logs for specific construction details.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



**Daily Field Summary Report**

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/10/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling, Baker</u>	<b>Report No.:</b> <u>10</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>16</u> PM <u>21</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.

0800 – Bulldog is beginning to flush sand material from SVE-04.

1100 – Bulldog has successfully flushed sand material from SVE-04 borehole.

1130 – Due to current and forecasted cold temps over the next week, project will be paused until cold weather passes.

Note: See Well logs for specific construction details.

A handwritten signature in black ink, appearing to be "Andrew R. [unclear]", written over the "FEI Representative:" label.

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/23/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling</u>	<b>Report No.:</b> <u>11</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>40</u> PM <u>60</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.  
0830 – Bulldog is reconfirming depth at SVE-04 prior to beginning setting casing and annular backfill.  
0900 – Bulldog is setting casing pipe for SVE-04 and beginning annular backfill.  
1200 – Lunch  
1300 – Work resumes  
1400 – Bulldog has completed annular backfill and installation of upper steel casing pipe. Concrete backfill will occur at a later date. Work is now being performed to relocate and setup on SVE-01.  
1430 – Bulldog begins drilling SVE-01 with CME hollow stem auger rig.  
1530 – Work stops for day. Left Site.  
Note: See Well logs for specific construction details.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:



Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/24/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling</u>	<b>Report No.:</b> <u>12</u>
<b>Weather:</b> AM <u>M Sunny</u> PM <u>M Sunny</u>	
<b>Temperature:</b> AM <u>42</u> PM <u>58</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.

0800 – Bull dog resumes drilling SVE-01. 1 driller and 1 helper are performing the drilling. They are using a CME hollow stem auger with an 8 1/4" OD to perform boring.

0945 – Bed rock was reached at 34.2'

1000 – Bulldog begins installing well casing and subsequent backfill of the well (see as-built well diagram for details).

1500 – I left the site.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

*Bradley Viz*

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>2/25/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling</u>	<b>Report No.:</b> <u>13</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>31</u> PM <u>48</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.

0830 – Bulldog is beginning to drill at SVE-03 with CME hollow stem auger rig.

1100 – Bulldog has reached designed depth at bedrock for SVE-03

1200 – Lunch

1300 – Work resumes

1400 – Bulldog is setting casing pipe and beginning annular backfill at SVE-03.

1600 – Bulldog has completed annular backfill up to 20'. Will continue backfill tomorrow morning.

1630 – Work stops for day. Left Site.

Note: See Well logs for specific construction details.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

**Client:** Bridgeton Landfill  
**Project:** SVE Installation  
**Location:** Bridgeton, MO  
Bulldog Drilling, Hunt Environmental Services,  
**Contractor(s):** Fusion Solutions  
**Weather:** AM P. Cloudy PM P. Cloudy  
**Temperature:** AM 32 PM 48  
**Job No.:** BT-209  
**Task No.:** -  
**Date:** 2/26/2021  
**Report No.:** 14

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.

0800 – Hunt is on site hydro excavating encountered abandoned natural gas line. During previous investigation, it was discovered that line had been cut and terminated outside the property boundary. Line will be exposed to fence line, cut/capped and removed.

0830 – Bulldog is continuing annular backfill at SVE-03. Upper steel casing pipe is also being installed.

1100 – Bulldog has completed annular backfill at SVE-03. Bulldog is working to cleanup construction area and will continue drilling on Monday (3/11/2021).

1200 – Lunch

1230 – Hunt resumes hydro excavation work.

1700 – Remainder of line has been exposed and removed. Fusion Solutions is working to backfill trench with clean soils.

1800 – Work stops for day. Left Site.

Note: See Well logs for specific construction details.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/01/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling; Hunt Environmental</u>	<b>Report No.:</b> <u>15</u>
<b>Weather:</b> AM <u>M Sunny</u> PM <u>M Sunny</u>	
<b>Temperature:</b> AM <u>38</u> PM <u>50</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.

0800 – Bulldog is preparing to drilling SVE-07 using CME hollow stem auger drill rig. Hunt begins hydroexcavation to a depth of 6' deep around the perimeter of the proposed condensate sump location to determine if there are any previously unidentified utilities that will need to be evaluated prior to excavation of the sump.

0830 – Bulldog begins drilling SVE-07.

1300 – Bedrock encountered at 36.75' at SVE-07. Drilling activity for this well is complete. Bulldog begins to flush the boring with clean water.

1600 – Hunt has uncovered a ½" line that was previously unidentified within the proposed condensate sump area. A plan is determined to continue hydroexcavation of this line when work resumes tomorrow to determine the best plan of action.

1645 - Work stopped for the day. I left the site.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/02/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling; Hunt Environmental</u>	<b>Report No.:</b> <u>16</u>
<b>Weather:</b> AM <u>M Sunny</u> PM <u>M Sunny</u>	
<b>Temperature:</b> AM <u>30</u> PM <u>58</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0730 – Arrive on site.

0800 – Hunt resumes hydroexcavation around an unknown utility that was located yesterday. Baker is using locate equipment to assist with the hydroexcavation.

0830 – Bulldog begins setting the casing for SVE-07 that was bored yesterday and subsequently performs the backfill of the well (see as-built well diagram for details).

1000 – Hunt resumes hydroexcavation to a depth of 6' around the perimeter of the proposed condensate sump location to ensure that no other utility conflicts exist during the excavation.

1600 – Work stopped for the day. I left the site.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

*Bradley Vito*

**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/03/2021</u>
<b>Contractor(s):</b> <u>Hunt Environmental</u>	<b>Report No.:</b> <u>17</u>
<b>Weather:</b> AM <u>Sunny</u> PM <u>Sunny</u>	
<b>Temperature:</b> AM <u>30</u> PM <u>70</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site. Hunt resumes hydroexcavation around the perimeter of the proposed condensate sump location to discern if any additional utilities are present.

1200 – Hydroexcavation around the perimeter of the sump has been completed. Hunt is now hydroexcavated at the proposed location of vacuum laterals to SVE-01, SVE-03 and SVE-04 to determine if any utilities are present that were previously unaccounted for.

1530 – Work stopped for the day. Everyone left the site.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

*Bradley Vitz*

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/4/2021</u>
<b>Contractor(s):</b> <u>Fusion Solutions</u>	<b>Report No.:</b> <u>18</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>39</u> PM <u>59</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.

0800 – Fusion solutions is working to excavate remainder of area for installation of project condensate sump (CS-1).

1100 – CS-1 is being installed by Fusion utilizing a CAT excavator.

1200 – Condensate sump is set, concrete is being poured around base of sump per design plans. Concrete will be allowed to setup for a few hours prior to further backfill.

1500 – Fusion is now working to backfill around remainder of CS-1 up to the bottom of the flanged connections. Backfill is being performed using CAT excavator utilizing previously excavated clean soil materials.

1630 – Backfill complete. Fusion has placed protective barriers and tape around CS-1 excavation to protect area overnight.

Copies To: Erin Fanning, Dan Feezor

FEI Representative: Dane C. Hale

**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/5/2021</u>
<b>Contractor(s):</b> <u>Fusion Solutions, Hunt Environmental Services</u>	<b>Report No.:</b> <u>19</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>30</u> PM <u>49</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0730 – Fusion Solutions is working to pre-fabricate project HDPE LFG, FM and Airline piping utilizing a Mcelroy fusion machine.  
0900 – Hunt is working to hydroexcavate trench for 8” header from CS-1 under existing haul road towards the east.  
1200 – Lunch  
1230 – Work Resumes.  
1330 – Pressure testing is being performed on prefabricated 8” HDPE LFG header piping.  
1400 – Hunt is now working to hydroexcavate trench from CS-1 to SVE-06.  
1630 – Fusion is installing a casing pipe for 8” header and header piping from CS-1 thru existing haul road.  
1730 – Header piping has been installed and trench has been backfilled by Fusion utilizing clean soils.  
1745 – Work Stops. Left site for day.

Copies To: Erin Fanning, Dan Feezor

FEI Representative: Dane C. Hale



**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/8/2021</u>
<b>Contractor(s):</b> <u>Fusion Solutions, Hunt Environmental Services</u>	<b>Report No.:</b> <u>20</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>45</u> PM <u>69</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0730 – Fusion Solutions is continuing pre-fabrication of project HDPE piping.  
Hunt is working to hydro excavate trench to SVE-07.  
1200 – Lunch  
1300 – Work Resumes  
1330 – Pressure testing is being performed on 8” LFG header/lateral to SVE-07.  
1745 – Piping to SVE-07 has been installed. Entirety of FM and Airline system will be tested after installation.  
Note: See Pressure Testing forms for testing data.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/9/2021</u>
<b>Contractor(s):</b> <u>Fusion Solutions, Hunt Environmental Services</u>	<b>Report No.:</b> <u>21</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>55</u> PM <u>72</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0730 – Fusion Solutions is continuing pre-fabrication of project HDPE piping.  
Hunt is continuing to hydro excavate trench to SVE-06.  
1200 – Lunch  
1300 – Work Resumes  
1330 – Hydroex complete to SVE-06. Fusion is working to install piping from CS-1 to SVE-06.  
1430 – Piping installation complete. Fusion is now working to backfill remainder of excavation around CS-1 to ground level.  
1630 – Backfill complete. Work Stops for Day. Left Site.

**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/10/2021</u>
<b>Contractor(s):</b> <u>Fusion Solutions, Hunt Environmental Services</u>	<b>Report No.:</b> <u>22</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>57</u> PM <u>67</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.

0730 – Fusion Solutions is continuing pre-fabrication of project HDPE piping.

Hunt is working to hydro excavate bollard locations around installed SVE wells and CS-1

1200 – Lunch

1300 – Work Resumes

1630 – Work Stops for Day. Left Site

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



**Daily Field Summary Report**

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/11/2021</u>
<b>Contractor(s):</b> <u>Fusion Solutions, Hunt Environmental Services</u>	<b>Report No.:</b> <u>23</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>49</u> PM <u>60</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0730 – Fusion Solutions is continuing pre-fabrication of project HDPE piping.  
Hunt is working to hydro excavate bollard locations around installed SVE wells and CS-1  
1200 – Lunch  
1300 – Work Resumes  
1630 – Work Stops for Day. Left Site

A handwritten signature in black ink, appearing to be "Andrew R. [unclear]", written over the "FEI Representative:" label.

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/15/2021</u>
<b>Contractor(s):</b> <u>Fusion Solutions, Hunt Environmental Services</u>	<b>Report No.:</b> <u>24</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>42</u> PM <u>51</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0730 – Fusion Solutions is continuing pre-fabrication of project HDPE piping.  
Hunt is working to hydro excavate bollard locations around installed SVE wells and CS-1.  
0800 – Fusion is preparing to pressure test prefabricated 8” Header segment.  
0900 – Fusion is beginning to install HDPE piping in pre-hydro excavated trench locations.  
1200 – Lunch  
1300 – Work Resumes. Fusion is preparing to pressure test entirety of 2” HDPE SDR-9 Airline for the SVE system.  
1630 – Work Stops for Day. Left Site  
Note: See pressure testing forms for test data.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



**Daily Field Summary Report**

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/16/2021</u>
<b>Contractor(s):</b> <u>Fusion Solutions, Hunt Environmental Services</u>	<b>Report No.:</b> <u>25</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>42</u> PM <u>50</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0730 – Fusion Solutions is continuing pre-fabrication and installation of project HDPE piping.  
Hunt is working to hydro excavate bollard locations around installed SVE wells.  
0800 – Fusion is preparing to pressure test entirety of 2” inner carrier piping of 2”SDR-11x4”SDR-17 HDPE forcemain piping for project.  
1200 – Lunch  
1300 – Work Resumes  
1400 - Fusion is preparing to pressure test entirety of 4” outer containment piping of 2” SDR-11x4” SDR-17 HDPE forcemain piping for project.  
1630 – Work Stops for Day. All pressure testing for project is complete.  
1645 - Left Site  
Note: See pressure testing forms for test data.

**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/17/2021</u>
<b>Contractor(s):</b> <u>Fusion Solutions, Hunt Environmental Services</u>	<b>Report No.:</b> <u>26</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>45</u> PM <u>58</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site.  
0730 – Fusion Solutions is working to backfill trenches and cleanup construction area.  
Hunt is working to hydro excavate bollard locations around installed SVE wells.  
1200 – Lunch  
1300 – Work Resumes  
1630 – Work Stops for Day. All pressure testing for project is complete.  
1645 - Left Site

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

A handwritten signature in black ink, appearing to be "Andrew R. [unclear]", written over a horizontal line.

**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



**Daily Field Summary Report**

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/22/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling</u>	<b>Report No.:</b> <u>27</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>54</u> PM <u>67</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0700 – Arrive on site. Hunt has completed hydro excavation for bollards and bollards have been installed by Bulldog.  
0730 – Bulldog is on site preparing to pour concrete for remainder of SVE wells and installed bollards.  
1200 – Lunch  
1300 – Work Resumes  
1630 – Work Stops for Day. Bulldog has completed concrete installation for installed bollards and all SVE wells.  
1645 - Left Site



**Feezor Engineering, Inc.**  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



Page: 1 of 1

### Daily Field Summary Report

<b>Client:</b> <u>Bridgeton Landfill</u>	<b>Job No.:</b> <u>BT-209</u>
<b>Project:</b> <u>SVE Installation</u>	<b>Task No.:</b> <u>-</u>
<b>Location:</b> <u>Bridgeton, MO</u>	<b>Date:</b> <u>3/26/2021</u>
<b>Contractor(s):</b> <u>Bulldog Drilling</u>	<b>Report No.:</b> <u>28</u>
<b>Weather:</b> AM <u>P. Cloudy</u> PM <u>P. Cloudy</u>	
<b>Temperature:</b> AM <u>45</u> PM <u>69</u>	

Description of field activities (include labor, equipment, site conditions, sampling, etc.)

0900 – Arrive on site. Bulldog and Fusion are finalizing site cleanout and preparing to demob. Fusion is also working to cut down SVE well casings to a uniform height and finalize installed QED wellheads.

1200 – Lunch

1300 – Work Resumes

1500 – FEI performs final survey of SVE wells.

1630 – All project items area complete. Left Site.

Copies To: Erin Fanning, Dan Feezor

FEI Representative:

## **Sub-Appendix A.2**

### **Equipment List**



## **Bridgeton Landfill LLC.**

### **2021 SVE Installation**

## **Construction Equipment List**

### **Bulldog Drilling**

- 1 – CME-750X Hollow Stem Auger Drill Rig
- 1 – Bobcat Skidsteer

### **Hunt Environmental Services**

- 1 – Vac Truck
- 1 – Vac container

### **Fusion Solutions Inc.**

- 1 – McElroy 1218 Butt-Fusion Machine
- 1 – McElroy 618 Bulldog Fusion Machine
  - 1 – Polaris Ranger UTV
  - 1 – Takeuchi T12 Skid Steer
- 1 – Takeuchi TL50 Mini-Excavator
  - 1-CAT Excavator

## **Appendix B**

### **INSTALLATION INFORMATION**

#### **Sub-Appendices**

- B.1** As-built Well Logs
- B.2** Pipeline Pressure Testing Results

## **Sub-Appendix B.1**

### **As-Built Well Logs**

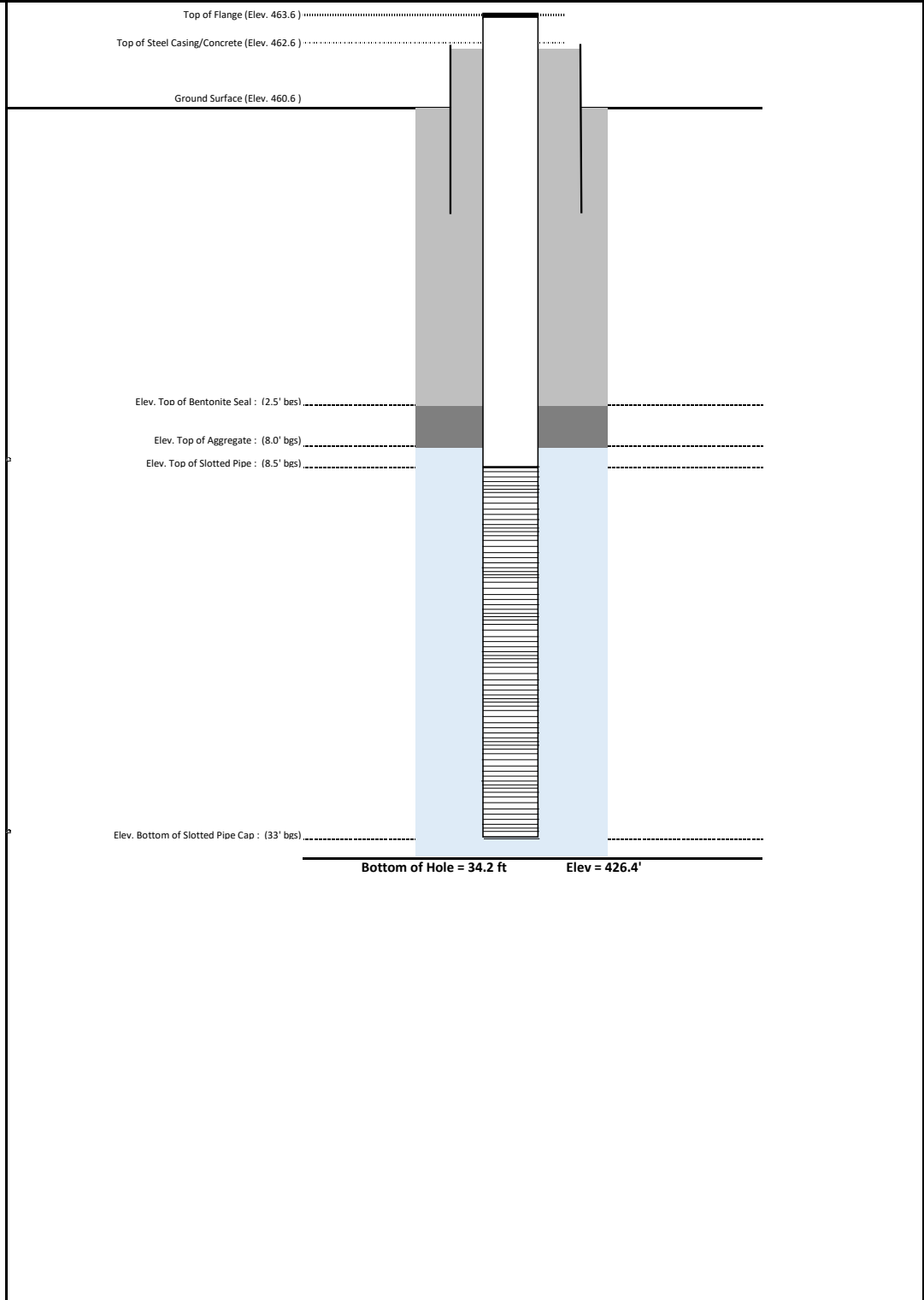


Client: **Bridgeton Landfill LLC**  
 Project Location: **Bridgeton, MO**  
 Project Name: **2021 SVE Installation**  
 FEI Project Number: **BT-209-21**  
 FEI Inspector: **Brad Vits**  
 Drilling Contractor: **Bulldog Drilling**  
 Driller: **John Gates**

Drilling Method: **10" Hollow Stem Auger**  
 Well Casing Material: **6" SCH 40 PVC**  
 Easting: **515,303.0**  
 Northing: **1,066,957.0**  
 GS Elevation: **460.6**  
 Drill Date(s): **2/24/2021**  
 Drilled Depth: **34 feet**

Well ID: **SVE-01**

### Well Completion Details



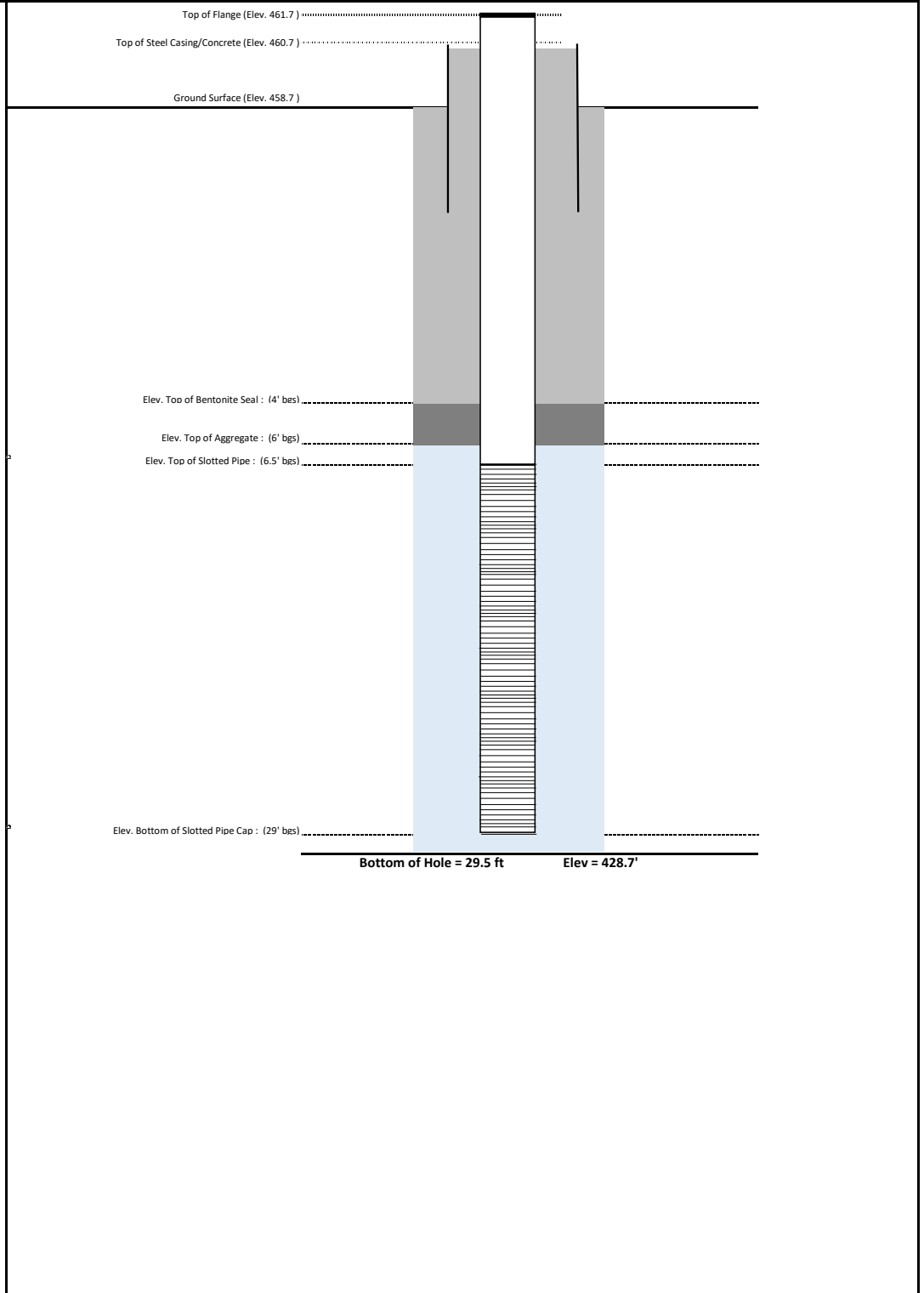


Client: **Bridgeton Landfill LLC**  
 Project Location: **Bridgeton, MO**  
 Project Name: **2021 SVE Installation**  
 FEI Project Number: **BT-209-21**  
 FEI Inspector: **Andrew Roberts**  
 Drilling Contractor: **Bulldog Drilling**  
 Driller: **John Gates**

Drilling Method: **10" Hollow Stem Auger**  
 Well Casing Material: **6" SCH 40 PVC**  
 Easting: **515,289.9**  
 Northing: **1,066,912.0**  
 GS Elevation: **458.7**  
 Drill Date(s): **2/1/2021**  
 Drilled Depth: **29.5 feet**

Well ID: **SVE-02**

### Well Completion Details



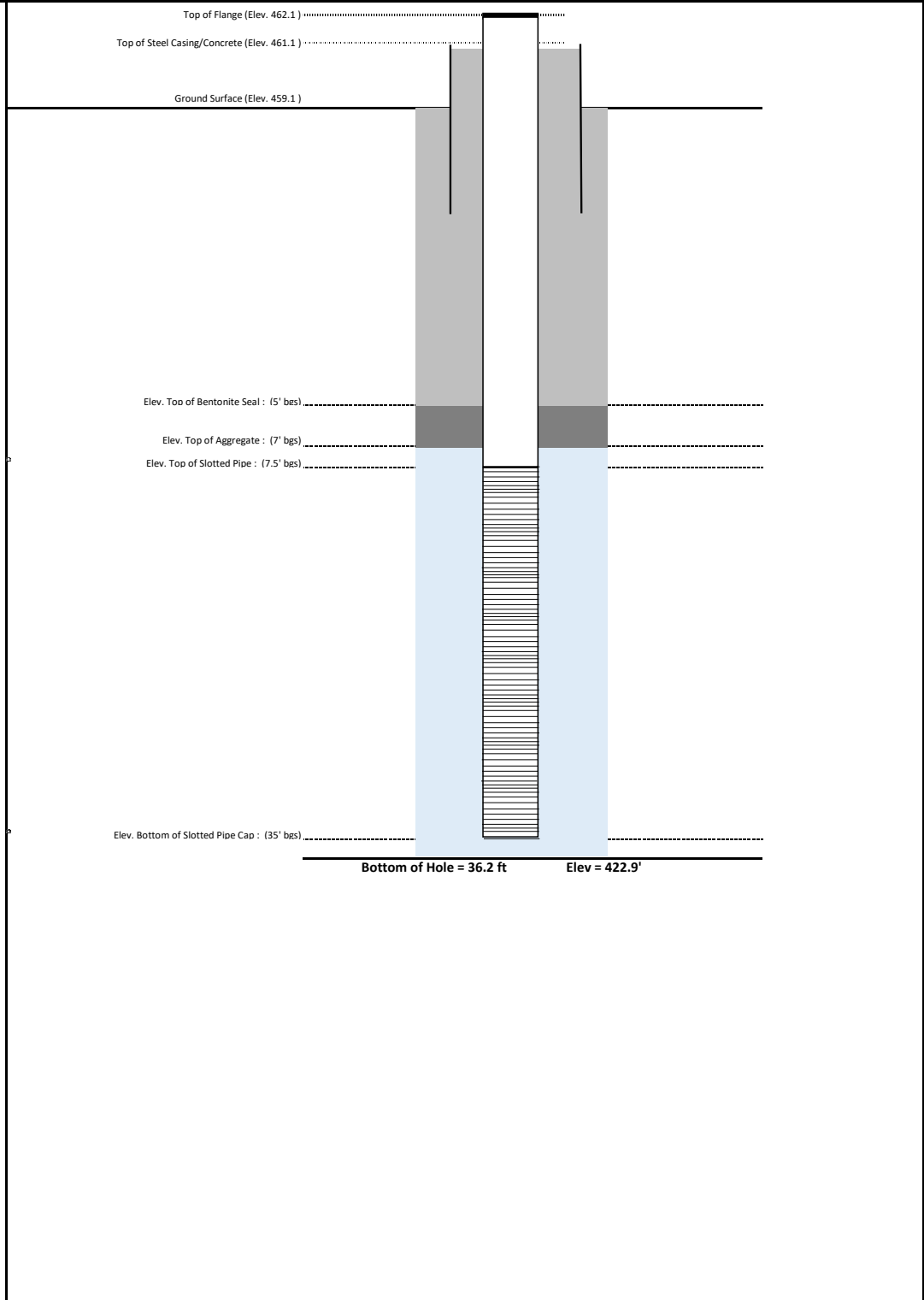


Client: **Bridgeton Landfill LLC**  
 Project Location: **Bridgeton, MO**  
 Project Name: **2021 SVE Installation**  
 FEI Project Number: **BT-209-21**  
 FEI Inspector: **Andrew Roberts**  
 Drilling Contractor: **Bulldog Drilling**  
 Driller: **John Gates**

Drilling Method: **10" Hollow Stem Auger**  
 Well Casing Material: **6" SCH 40 PVC**  
 Easting: **515,282.0**  
 Northing: **1,066,992.0**  
 GS Elevation: **459.1**  
 Drill Date(s): **2/25/2021**  
 Drilled Depth: **36.2 feet**

Well ID: **SVE-03**

### Well Completion Details





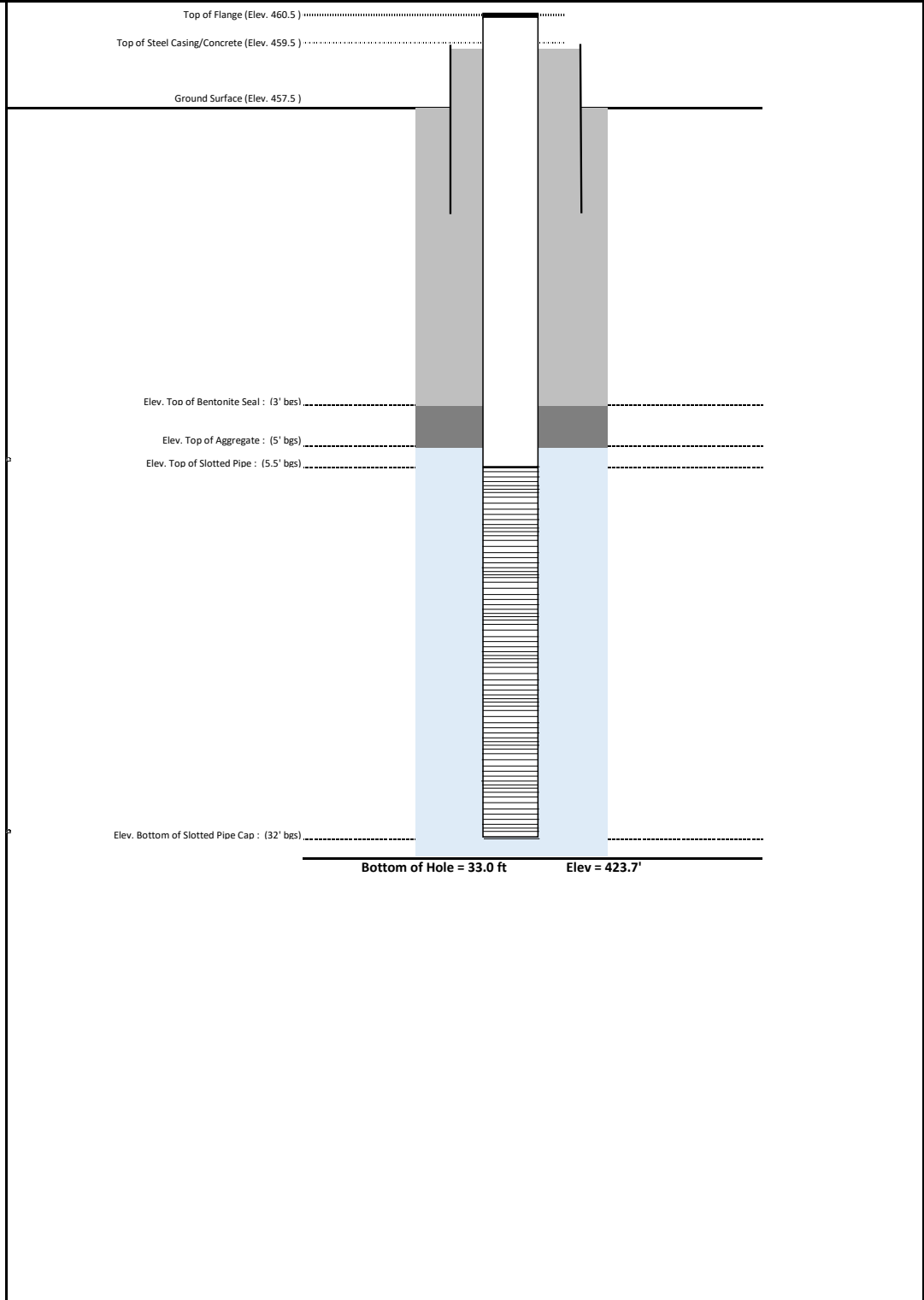


Client: **Bridgeton Landfill LLC**  
Project Location: **Bridgeton, MO**  
Project Name: **2021 SVE Installation**  
FEI Project Number: **BT-209-21**  
FEI Inspector: **Andrew Roberts**  
Drilling Contractor: **Bulldog Drilling**  
Driller: **John Gates**

Drilling Method: **10" Hollow Stem Auger**  
Well Casing Material: **6" SCH 40 PVC**  
Easting: **515,249.3**  
Northing: **1,066,964.0**  
GS Elevation: **457.5**  
Drill Date(s): **2/23/2021**  
Drilled Depth: **33 feet**

Well ID: **SVE-04**

### Well Completion Details



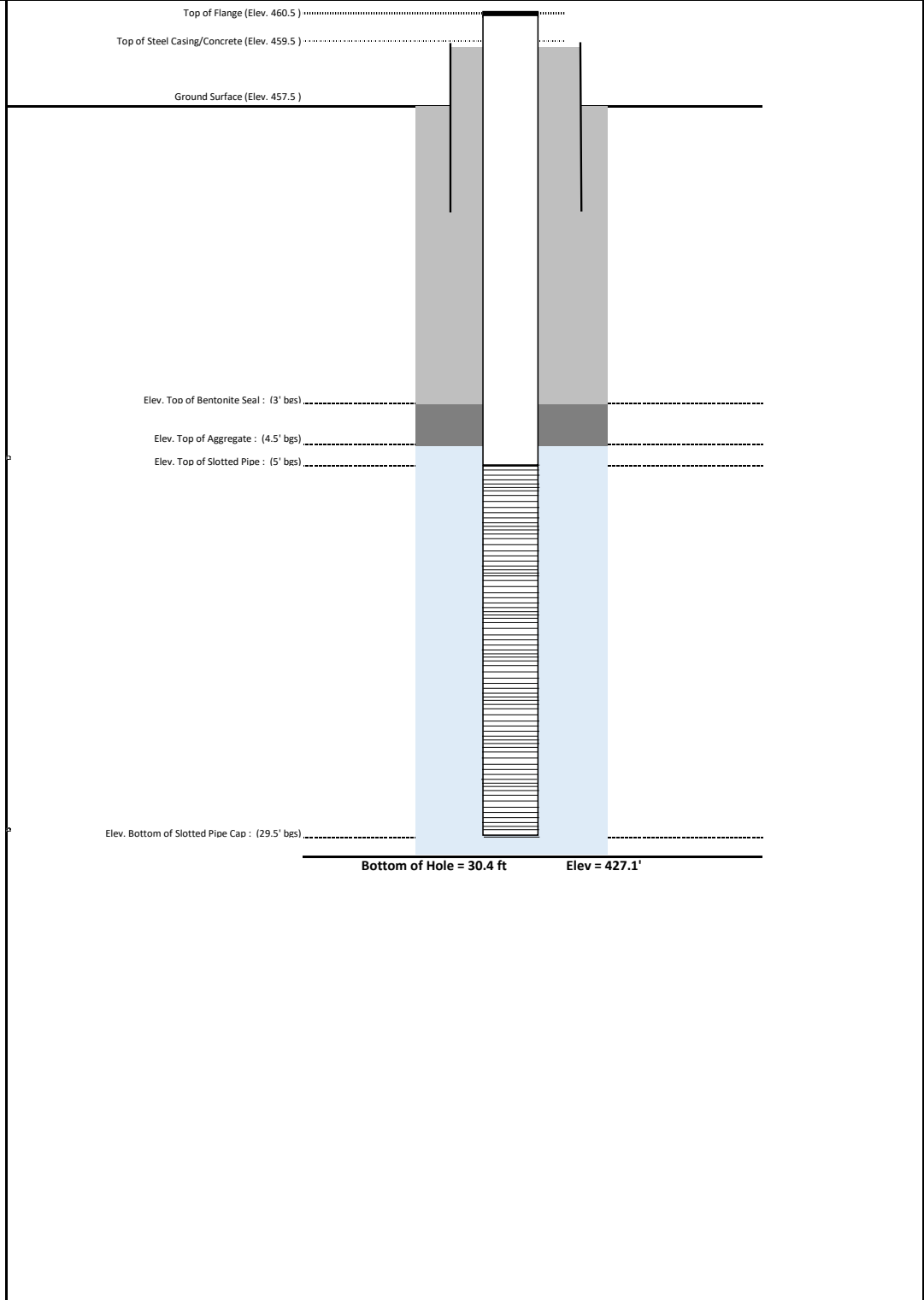


Client: **Bridgeton Landfill LLC**  
 Project Location: **Bridgeton, MO**  
 Project Name: **2021 SVE Installation**  
 FEI Project Number: **BT-209-21**  
 FEI Inspector: **Andrew Roberts**  
 Drilling Contractor: **Bulldog Drilling**  
 Driller: **John Gates**

Drilling Method: **10" Hollow Stem Auger**  
 Well Casing Material: **6" SCH 40 PVC**  
 Easting: **515,254.5**  
 Northing: **1,066,918**  
 GS Elevation: **457.5**  
 Drill Date(s): **2/3/2021**  
 Drilled Depth: **30.4 feet**

Well ID: **SVE-05**

### Well Completion Details



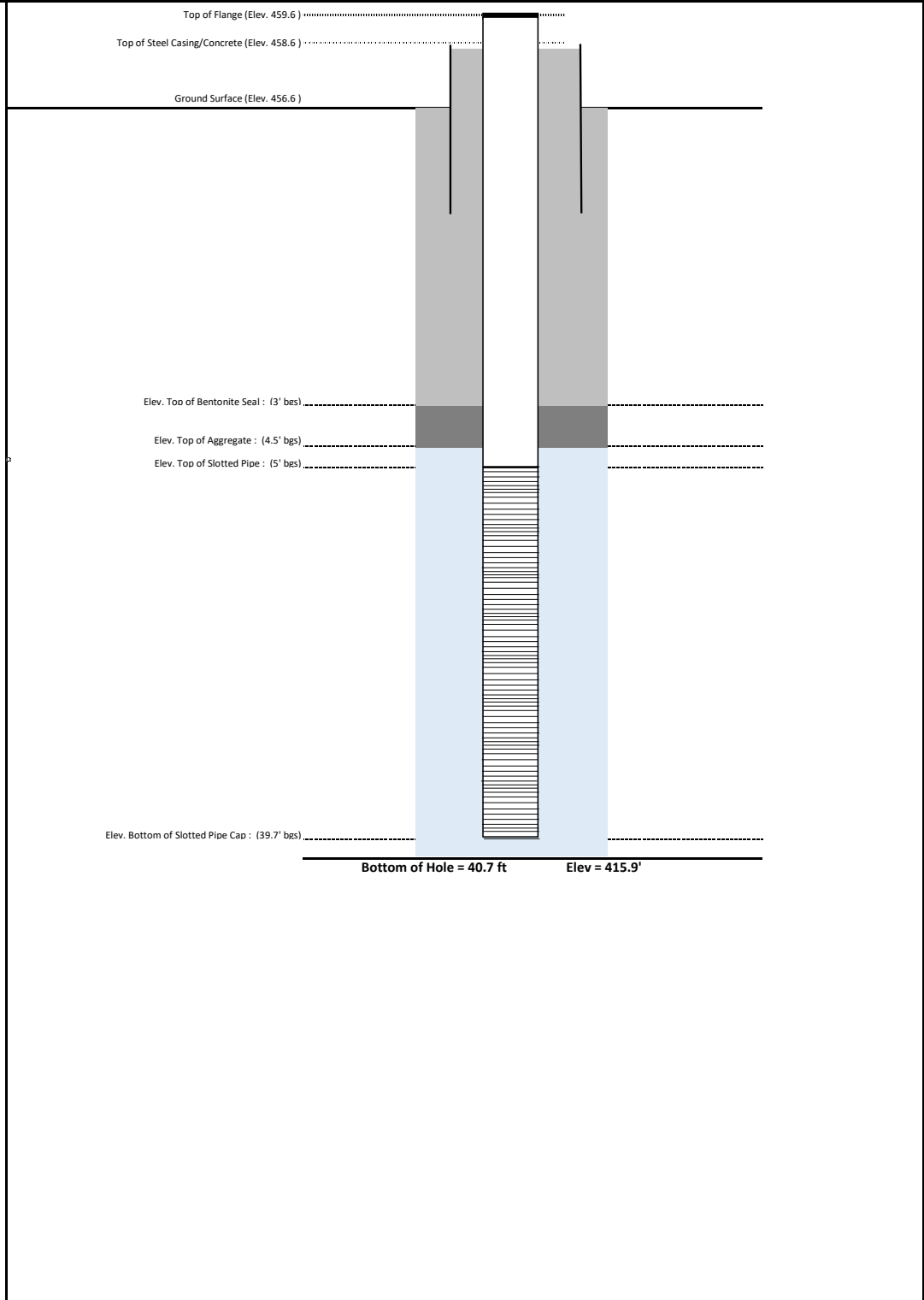


Client: **Bridgeton Landfill LLC**  
 Project Location: **Bridgeton, MO**  
 Project Name: **2021 SVE Installation**  
 FEI Project Number: **BT-209-21**  
 FEI Inspector: **Andrew Roberts**  
 Drilling Contractor: **Bulldog Drilling**  
 Driller: **John Gates**

Drilling Method: **10" Hollow Stem Auger**  
 Well Casing Material: **6" SCH 40 PVC**  
 Easting: **515,181.8**  
 Northing: **1,066,966.0**  
 GS Elevation: **456.6**  
 Drill Date(s): **2/5/2021**  
 Drilled Depth: **40.7 feet**

Well ID: **SVE-06**

### Well Completion Details



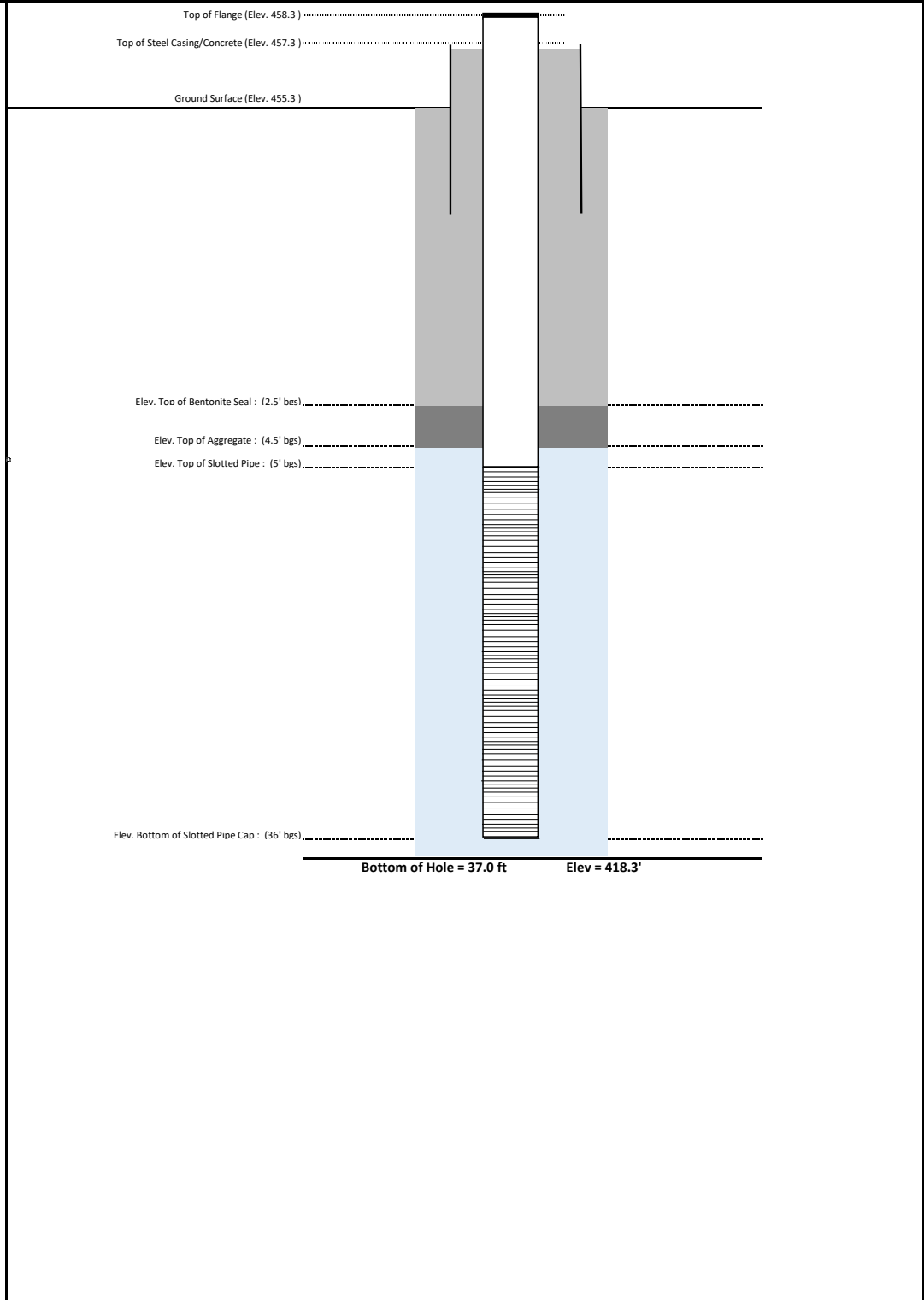


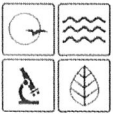
Client: **Bridgeton Landfill LLC**  
 Project Location: **Bridgeton, MO**  
 Project Name: **2021 SVE Installation**  
 FEI Project Number: **BT-209-21**  
 FEI Inspector: **Bradley Vits**  
 Drilling Contractor: **Bulldog Drilling**  
 Driller: **John Gates**

Drilling Method: **10" Hollow Stem Auger**  
 Well Casing Material: **6" SCH 40 PVC**  
 Easting: **515,180.3**  
 Northing: **1,066,912.0**  
 GS Elevation: **455.3**  
 Drill Date(s): **3/2/2021**  
 Drilled Depth: **37.0 feet**

Well ID: **SVE-07**

### Well Completion Details





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 GEOLOGICAL SURVEY PROGRAM  
**MONITORING WELL  
 CERTIFICATION REPORT**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REFERENCE NO.		CHECK NO.	
STATE WELL NO.		REVENUE NO.	
ENTERED	APPROVED	DATE	ROUTE

**NOTE: This form is not to be used for nested wells**

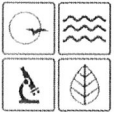
<b>OWNER AND SITE INFORMATION</b>			
PROPERTY OWNER NAME WHERE WELL IS LOCATED Bridgeton Landfill, LLC	PRIMARY PHONE NUMBER WITH AREA CODE (209) 227-9531	WELL NUMBER SVE-01	WELL COMPLETION DATE 02/24/2021
PROPERTY OWNER MAILING ADDRESS 13570 St. Charles Rock Rd	CITY Bridgeton	STATE MO	ZIP CODE 63044
PHYSICAL ADDRESS OF PROPERTY WHERE WELL IS LOCATED 13570 St. Charles Rock Rd	CITY Bridgeton	COUNTY St. Louis CO	
NAME OF SITE, BUSINESS, OR CLEANUP PROJECT Bridgeton Landfill, LLC	DNR/EPA PROJECT NUMBER OR REGULATORY SITE ID NUMBER (IF APPLICABLE) 118912	VARIANCE NUMBER (IF ISSUED) 6723	
PRIMARY CONTRACTOR NAME (PLEASE PRINT) John Gates	PERMIT NUMBER 003501-M	Section 256.607(3), RSMo, requires all primary contractors to comply with all rules and regulations promulgated pursuant to Sections 256.600 to 256.640 RSMo.	

<b>SURFACE COMPLETION</b>		LOCATION OF WELL (D/M/S FORMAT ONLY)	
TYPE <input type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount	LENGTH AND DIAMETER OF SURFACE COMPLETION Length <u>n/a</u> FT. Diameter <u>n/a</u> IN.	DIAMETER AND DEPTH OF THE HOLE SURFACE COMPLETION WAS PLACED Diameter <u>24</u> IN. Length <u>2.5</u> FT.	Latitude <u>38</u> ° <u>45</u> ' <u>50.13</u> " Longitude <u>90</u> ° <u>26</u> ' <u>47.33</u> "
<input type="checkbox"/> Locking Cap <input type="checkbox"/> Weep Hole		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____	SMALLEST _____ LARGEST _____ Section _____ Township _____ North Range _____ <input type="checkbox"/> E <input type="checkbox"/> W
Elevation _____ FT.		<b>SURFACE COMPLETION</b> <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	TYPE OF WELL (CHECK ONE) <input type="checkbox"/> Direct Push <input checked="" type="checkbox"/> Extraction <input type="checkbox"/> Inclinator <input type="checkbox"/> Gas Migration <input type="checkbox"/> Injection <input type="checkbox"/> Lysimeter <input type="checkbox"/> Observation <input type="checkbox"/> Open Hole <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Piezometer <input type="checkbox"/> Standard _____
<b>ANNULAR SEAL</b> Length <u>n/a</u> FT. <input type="checkbox"/> Slurry <input type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Cement/Slurry		<b>RISER OR CASING (IF OPEN HOLE COMPLETION)</b> Riser/Casing Diameter <u>6</u> IN. Riser/Casing Length <u>12.2</u> FT. Diameter Of Drill Hole <u>12</u> IN. Weight Or SDR# <u>40</u>	MONITORING FOR (CHECK ALL THAT APPLY) <input type="checkbox"/> Explosives <input type="checkbox"/> Metals <input type="checkbox"/> Pesticides/Herbicides <input type="checkbox"/> Petroleum <input type="checkbox"/> Radionuclides <input type="checkbox"/> SVOCs <input type="checkbox"/> VOCs (non-petroleum) <input type="checkbox"/> Geotechnical Data
<b>IF CEMENT/BENTONITE MIX:</b> Bags of Cement Used _____ % of Bentonite Used _____ Water Used Per Bag _____ GAL.		<b>MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	DEPTH   FORMATION DESCRIPTION (OR ATTACH BORING LOG*) FROM   TO
<b>SECONDARY FILTER PACK LENGTH</b> <u>n/a</u> FT.		<b>BENTONITE SEAL</b> Length <u>5.5</u> <input checked="" type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Saturated Zone <input checked="" type="checkbox"/> Hydrated	0   2.5   Crushed Gravel 2.5   8   CLAY 8   34.2   Silty SAND 34.2     LIMESTONE 33.2     Bottom of SVE Well
<b>DEPTH TO TOP OF PRIMARY FILTER PACK</b> <u>8.0</u> FT.		<b>SCREEN</b> Screen Diameter <u>6</u> IN. Screen Length <u>24.7</u> FT. Diameter Of Drill Hole <u>12</u> IN. Depth To Top <u>8.5</u> FT.	TOTAL DEPTH: <u>34.2</u> FT. <input type="checkbox"/> *Boring Log Attached
<b>LENGTH OF PRIMARY FILTER PACK</b> <u>26.2</u> FT.		<b>SCREEN MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	STATIC WATER LEVEL <u>~20</u> FT. PUMP INSTALLED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

For cased wells, submit additional as-built diagrams showing well construction details including type and size of all casing, hole diameter and grout used.

I hereby certify that the monitoring well herein described was constructed in accordance with Missouri Department of Natural Resources requirements.

MONITORING WELL INSTALLATION CONTRACTOR 	PERMIT NUMBER 006329-M	DATE 03/29/2021	MONITORING WELL INSTALLATION CONTRACTOR APPRENTICE (IF APPLICABLE)	PERMIT NUMBER
---	---------------------------	--------------------	--	---------------



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 GEOLOGICAL SURVEY PROGRAM  
**MONITORING WELL  
 CERTIFICATION REPORT**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REFERENCE NO.		CHECK NO.	
STATE WELL NO.		REVENUE NO.	
ENTERED	APPROVED	DATE	ROUTE

**NOTE: This form is not to be used for nested wells**

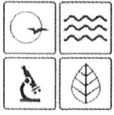
<b>OWNER AND SITE INFORMATION</b>			
PROPERTY OWNER NAME WHERE WELL IS LOCATED Bridgeton Landfill, LLC	PRIMARY PHONE NUMBER WITH AREA CODE (209) 227-9531	WELL NUMBER SVE-02	WELL COMPLETION DATE 02/01/2021
PROPERTY OWNER MAILING ADDRESS 13570 St. Charles Rock Rd	CITY Bridgeton	STATE MO	ZIP CODE 63044
PHYSICAL ADDRESS OF PROPERTY WHERE WELL IS LOCATED 13570 St. Charles Rock Rd	CITY Bridgeton	COUNTY St. Louis CO	
NAME OF SITE, BUSINESS, OR CLEANUP PROJECT Bridgeton Landfill, LLC	DNR/EPA PROJECT NUMBER OR REGULATORY SITE ID NUMBER (IF APPLICABLE) 118912	VARIANCE NUMBER (IF ISSUED) 6723	
PRIMARY CONTRACTOR NAME (PLEASE PRINT) John Gates	PERMIT NUMBER 003501-M	Section 256.607(3), RSMo, requires all primary contractors to comply with all rules and regulations promulgated pursuant to Sections 256.600 to 256.640 RSMo.	

<b>SURFACE COMPLETION</b>		LOCATION OF WELL (D/M/S FORMAT ONLY)	
TYPE <input type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount  <input type="checkbox"/> Locking Cap <input type="checkbox"/> Weep Hole	LENGTH AND DIAMETER OF SURFACE COMPLETION Length <u>n/a</u> FT. Diameter <u>n/a</u> IN.	DIAMETER AND DEPTH OF THE HOLE SURFACE COMPLETION WAS PLACED Diameter <u>24</u> IN. Length <u>4.0</u> FT.	Latitude <u>38</u> ° <u>45</u> ' <u>49.58</u> " Longitude <u>90</u> ° <u>26</u> ' <u>47.34</u> "
SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____		SMALLEST _____ LARGEST _____ Section _____ Township _____ North Range _____ <input type="checkbox"/> E <input type="checkbox"/> W	
ANNULAR SEAL Length <u>n/a</u> FT. <input type="checkbox"/> Slurry <input type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Cement/Slurry		TYPE OF WELL (CHECK ONE) <input type="checkbox"/> Direct Push <input checked="" type="checkbox"/> Extraction <input type="checkbox"/> Inclinator <input type="checkbox"/> Gas Migration <input type="checkbox"/> Injection <input type="checkbox"/> Lysimeter <input type="checkbox"/> Observation <input type="checkbox"/> Open Hole <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Piezometer <input type="checkbox"/> Standard _____	
IF CEMENT/BENTONITE MIX: Bags of Cement Used _____ % of Bentonite Used _____ Water Used Per Bag _____ GAL.		MONITORING FOR (CHECK ALL THAT APPLY) <input type="checkbox"/> Explosives <input type="checkbox"/> Metals <input type="checkbox"/> Pesticides/Herbicides <input type="checkbox"/> Petroleum <input type="checkbox"/> Radionuclides <input type="checkbox"/> SVOCs <input type="checkbox"/> VOCs (non-petroleum) <input type="checkbox"/> Geotechnical Data	
SECONDARY FILTER PACK LENGTH <u>n/a</u> FT.		DEPTH	
DEPTH TO TOP OF PRIMARY FILTER PACK <u>6.0</u> FT.		FROM TO FORMATION DESCRIPTION (OR ATTACH BORING LOG*)	
LENGTH OF PRIMARY FILTER PACK <u>23.5</u> FT.		0 4 Crushed Gravel 4 6 CLAY 8 29.5 Silty SAND 29.5 LIMESTONE 28.5 Bottom of SVE Well	
SCREEN Screen Diameter <u>6</u> IN. Screen Length <u>22.0</u> FT. Diameter Of Drill Hole <u>12</u> IN. Depth To Top <u>6.5</u> FT.		TOTAL DEPTH: <u>29.5</u> FT. <input type="checkbox"/> *Boring Log Attached	
SCREEN MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		STATIC WATER LEVEL <u>~20</u> FT.	
BENTONITE SEAL Length <u>2.0</u> <input checked="" type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Saturated Zone <input checked="" type="checkbox"/> Hydrated		PUMP INSTALLED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

For cased wells, submit additional as-built diagrams showing well construction details including type and size of all casing, hole diameter and grout used.

I hereby certify that the monitoring well herein described was constructed in accordance with Missouri Department of Natural Resources requirements.

MONITORING WELL INSTALLATION CONTRACTOR 	PERMIT NUMBER 006329-M	DATE 03/29/2021	MONITORING WELL INSTALLATION CONTRACTOR APPRENTICE (IF APPLICABLE)	PERMIT NUMBER
---	---------------------------	--------------------	--	---------------



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
GEOLOGICAL SURVEY PROGRAM  
**MONITORING WELL  
CERTIFICATION REPORT**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REFERENCE NO.		CHECK NO.	
STATE WELL NO.		REVENUE NO.	
ENTERED	APPROVED	DATE	ROUTE

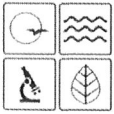
**NOTE: This form is not to be used for nested wells**

<b>OWNER AND SITE INFORMATION</b>			
PROPERTY OWNER NAME WHERE WELL IS LOCATED Bridgeton Landfill, LLC	PRIMARY PHONE NUMBER WITH AREA CODE (209) 227-9531	WELL NUMBER SVE-03	WELL COMPLETION DATE 02/25/2021
PROPERTY OWNER MAILING ADDRESS 13570 St. Charles Rock Rd	CITY Bridgeton	STATE MO	ZIP CODE 63044
PHYSICAL ADDRESS OF PROPERTY WHERE WELL IS LOCATED 13570 St. Charles Rock Rd	CITY Bridgeton	COUNTY St. Louis CO	
NAME OF SITE, BUSINESS, OR CLEANUP PROJECT Bridgeton Landfill, LLC	DNR/EPA PROJECT NUMBER OR REGULATORY SITE ID NUMBER (IF APPLICABLE) 118912	VARIANCE NUMBER (IF ISSUED) 6723	
PRIMARY CONTRACTOR NAME (PLEASE PRINT) John Gates	PERMIT NUMBER 003501-M	Section 256.607(3), RSMo, requires all primary contractors to comply with all rules and regulations promulgated pursuant to Sections 256.600 to 256.640 RSMo.	

<b>SURFACE COMPLETION</b>		LOCATION OF WELL (D/M/S FORMAT ONLY)	
TYPE <input type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount  <input type="checkbox"/> Locking Cap <input type="checkbox"/> Weep Hole	LENGTH AND DIAMETER OF SURFACE COMPLETION Length <u>n/a</u> FT. Diameter <u>n/a</u> IN.	DIAMETER AND DEPTH OF THE HOLE SURFACE COMPLETION WAS PLACED Diameter <u>24</u> IN. Length <u>2.5</u> FT.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other
ANNULAR SEAL Length <u>n/a</u> FT. <input type="checkbox"/> Slurry <input type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Cement/Slurry		<b>SURFACE COMPLETION</b> <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	
IF CEMENT/BENTONITE MIX: Bags of Cement Used _____ % of Bentonite Used _____ Water Used Per Bag _____ GAL.		<b>RISER OR CASING (IF OPEN HOLE COMPLETION)</b> Riser/Casing Diameter <u>6</u> IN. Riser/Casing Length <u>11.2</u> FT. Diameter Of Drill Hole <u>12</u> IN. Weight Or SDR# <u>40</u>	
SECONDARY FILTER PACK LENGTH <u>n/a</u> FT.		<b>MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	
DEPTH TO TOP OF PRIMARY FILTER PACK <u>7.0</u> FT.		<b>BENTONITE SEAL</b> Length <u>4.5</u> <input checked="" type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Saturated Zone <input checked="" type="checkbox"/> Hydrated	
LENGTH OF PRIMARY FILTER PACK <u>29.2</u> FT.		<b>SCREEN</b> Screen Diameter <u>6</u> IN. Screen Length <u>27.7</u> FT. Diameter Of Drill Hole <u>12</u> IN. Depth To Top <u>7.5</u> FT.	
		<b>SCREEN MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	
		FORMATION DESCRIPTION (OR ATTACH BORING LOG*)	
		DEPTH	
		FROM	TO
		0	2.5
		2.5	7
		7	36.2
		36.2	
			35.2
		TOTAL DEPTH:	
		36.2	FT.
		<input type="checkbox"/> *Boring Log Attached	
		STATIC WATER LEVEL	PUMP INSTALLED
		~20	FT.
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

I hereby certify that the monitoring well herein described was constructed in accordance with Missouri Department of Natural Resources requirements.

MONITORING WELL INSTALLATION CONTRACTOR 	PERMIT NUMBER 006329-M	DATE 03/29/2021	MONITORING WELL INSTALLATION CONTRACTOR APPRENTICE (IF APPLICABLE)	PERMIT NUMBER
---	---------------------------	--------------------	--	---------------



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 GEOLOGICAL SURVEY PROGRAM  
**MONITORING WELL  
 CERTIFICATION REPORT**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REFERENCE NO.		CHECK NO.	
STATE WELL NO.		REVENUE NO.	
ENTERED	APPROVED	DATE	ROUTE

**NOTE: This form is not to be used for nested wells**

**OWNER AND SITE INFORMATION**

PROPERTY OWNER NAME WHERE WELL IS LOCATED Bridgeton Landfill, LLC	PRIMARY PHONE NUMBER WITH AREA CODE (209) 227-9531	WELL NUMBER SVE-04	WELL COMPLETION DATE 02/23/2021
PROPERTY OWNER MAILING ADDRESS 13570 St. Charles Rock Rd	CITY Bridgeton	STATE MO	ZIP CODE 63044
PHYSICAL ADDRESS OF PROPERTY WHERE WELL IS LOCATED 13570 St. Charles Rock Rd	CITY Bridgeton	COUNTY St. Louis CO	
NAME OF SITE, BUSINESS, OR CLEANUP PROJECT Bridgeton Landfill, LLC	DNR/EPA PROJECT NUMBER OR REGULATORY SITE ID NUMBER (IF APPLICABLE) 118912	VARIANCE NUMBER (IF ISSUED) 6723	
PRIMARY CONTRACTOR NAME (PLEASE PRINT) John Gates	PERMIT NUMBER 003501-M	Section 256.607(3), RSMo. requires all primary contractors to comply with all rules and regulations promulgated pursuant to Sections 256.600 to 256.640 RSMo.	

**SURFACE COMPLETION**

TYPE <input type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount	LENGTH AND DIAMETER OF SURFACE COMPLETION Length <u>n/a</u> FT. Diameter <u>n/a</u> IN.	DIAMETER AND DEPTH OF THE HOLE SURFACE COMPLETION WAS PLACED Diameter <u>24</u> IN. Length <u>3.0</u> FT.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other
---	---	---	--

- Locking Cap
- Weep Hole

Elevation \_\_\_\_\_ FT.

**ANNULAR SEAL**

Length n/a FT.

- Slurry  Chips
- Pellets  Granular
- Cement/Slurry

**IF CEMENT/BENTONITE MIX:**

Bags of Cement Used \_\_\_\_\_  
 % of Bentonite Used \_\_\_\_\_  
 Water Used Per Bag \_\_\_\_\_ GAL.

**SECONDARY FILTER PACK LENGTH**

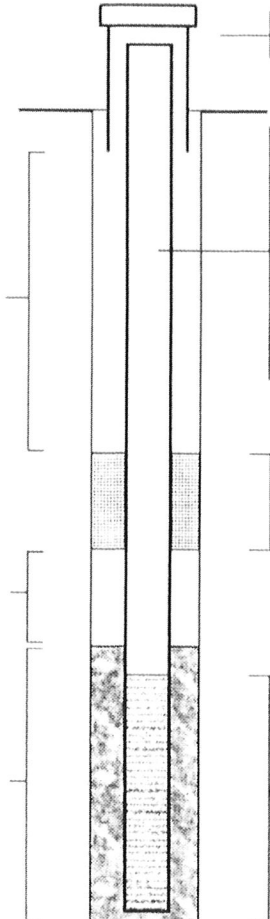
n/a FT.

**DEPTH TO TOP OF PRIMARY FILTER PACK**

5.0 FT.

**LENGTH OF PRIMARY FILTER PACK**

28.0 FT.



**SURFACE COMPLETION**

- Steel  Aluminum  Plastic

**RISER OR CASING (IF OPEN HOLE COMPLETION)**

Riser/Casing Diameter 6 IN.  
 Riser/Casing Length 9.2 FT.  
 Diameter Of Drill Hole 12 IN.  
 Weight Or SDR# 40

**MATERIAL**

- Steel  Thermoplastic (PVC)
- Other

**BENTONITE SEAL**

Length 2  
 Chips  Pellets  Granular  
 Saturated Zone  Hydrated

**SCREEN**

Screen Diameter 6 IN.  
 Screen Length 26.5 FT.  
 Diameter Of Drill Hole 12 IN.  
 Depth To Top 5.5 FT.

**SCREEN MATERIAL**

- Steel  Thermoplastic (PVC)
- Other

**LOCATION OF WELL (D/M/S FORMAT ONLY)**

Latitude 38 ° 45 ' 50.09 "  
 Longitude 90 ° 26 ' 47.90 "

**SMALLEST LARGEST**

Section 1/4 Township \_\_\_\_\_ North  
 Range \_\_\_\_\_  E  W

**TYPE OF WELL (CHECK ONE)**

- Direct Push  Extraction  Inclinator
- Gas Migration  Injection  Lysimeter
- Observation  Open Hole  Other (specify)
- Piezometer  Standard

**MONITORING FOR (CHECK ALL THAT APPLY)**

- Explosives  Metals
- Pesticides/Herbicides  Petroleum
- Radionuclides  SVOCs
- VOCs (non-petroleum)  Geotechnical Data

**DEPTH FORMATION DESCRIPTION (OR ATTACH BORING LOG\*)**

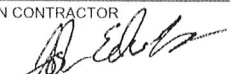
DEPTH		FORMATION DESCRIPTION (OR ATTACH BORING LOG*)
FROM	TO	
0	3	Crushed Gravel
3	5	CLAY
5	33	Silty SAND
33		LIMESTONE
	32	Bottom of SVE Well

TOTAL DEPTH: 33.0 FT.  \*Boring Log Attached

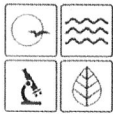
For cased wells, submit additional as-built diagrams showing well construction details including type and size of all casing, hole diameter and grout used.

STATIC WATER LEVEL ~20 FT. PUMP INSTALLED  Yes  No

I hereby certify that the monitoring well herein described was constructed in accordance with Missouri Department of Natural Resources requirements.

MONITORING WELL INSTALLATION CONTRACTOR 	PERMIT NUMBER 006329-M	DATE 03/29/2021	MONITORING WELL INSTALLATION CONTRACTOR APPRENTICE (IF APPLICABLE)	PERMIT NUMBER
--	---------------------------	--------------------	--	---------------





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 GEOLOGICAL SURVEY PROGRAM  
**MONITORING WELL  
 CERTIFICATION REPORT**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REFERENCE NO.		CHECK NO.	
STATE WELL NO.		REVENUE NO.	
ENTERED	APPROVED	DATE	ROUTE

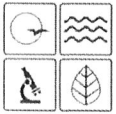
**NOTE: This form is not to be used for nested wells**

<b>OWNER AND SITE INFORMATION</b>			
PROPERTY OWNER NAME WHERE WELL IS LOCATED Bridgeton Landfill, LLC	PRIMARY PHONE NUMBER WITH AREA CODE (209) 227-9531	WELL NUMBER SVE-05	WELL COMPLETION DATE 02/03/2021
PROPERTY OWNER MAILING ADDRESS 13570 St. Charles Rock Rd	CITY Bridgeton	STATE MO	ZIP CODE 63044
PHYSICAL ADDRESS OF PROPERTY WHERE WELL IS LOCATED 13570 St. Charles Rock Rd	CITY Bridgeton	COUNTY St. Louis CO	
NAME OF SITE, BUSINESS, OR CLEANUP PROJECT Bridgeton Landfill, LLC	DNR/EPA PROJECT NUMBER OR REGULATORY SITE ID NUMBER (IF APPLICABLE) 118912	VARIANCE NUMBER (IF ISSUED) 6723	
PRIMARY CONTRACTOR NAME (PLEASE PRINT) John Gates	PERMIT NUMBER 003501-M	Section 256.607(3), RSMo, requires all primary contractors to comply with all rules and regulations promulgated pursuant to Sections 256.600 to 256.640 RSMo.	

<b>SURFACE COMPLETION</b>		LOCATION OF WELL (DIM/S FORMAT ONLY)	
TYPE <input type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount  <input type="checkbox"/> Locking Cap <input type="checkbox"/> Weep Hole	LENGTH AND DIAMETER OF SURFACE COMPLETION Length <u>n/a</u> FT. Diameter <u>n/a</u> IN.	DIAMETER AND DEPTH OF THE HOLE SURFACE COMPLETION WAS PLACED Diameter <u>24</u> IN. Length <u>2.5</u> FT.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other
ANNULAR SEAL Length <u>n/a</u> FT. <input type="checkbox"/> Slurry <input type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Cement/Slurry		<b>SURFACE COMPLETION</b> <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	
IF CEMENT/BENTONITE MIX: Bags of Cement Used _____ % of Bentonite Used _____ Water Used Per Bag _____ GAL.		<b>RISER OR CASING (IF OPEN HOLE COMPLETION)</b> Riser/Casing Diameter <u>6</u> IN. Riser/Casing Length <u>8.7</u> FT. Diameter Of Drill Hole <u>12</u> IN. Weight Or SDR# <u>40</u>	
SECONDARY FILTER PACK LENGTH <u>n/a</u> FT.		<b>MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	
DEPTH TO TOP OF PRIMARY FILTER PACK <u>4.5</u> FT.		<b>BENTONITE SEAL</b> Length <u>2</u> <input checked="" type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Saturated Zone <input checked="" type="checkbox"/> Hydrated	
LENGTH OF PRIMARY FILTER PACK <u>25.9</u> FT.		<b>SCREEN</b> Screen Diameter <u>6</u> IN. Screen Length <u>24.4</u> FT. Diameter Of Drill Hole <u>12</u> IN. Depth To Top <u>5.0</u> FT.	
SCREEN MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		MONITORING FOR (CHECK ALL THAT APPLY) <input type="checkbox"/> Explosives <input type="checkbox"/> Metals <input type="checkbox"/> Gas Migration <input type="checkbox"/> Injection <input type="checkbox"/> Lysimeter <input type="checkbox"/> Observation <input type="checkbox"/> Open Hole <input type="checkbox"/> Other (specify) <input type="checkbox"/> Piezometer <input type="checkbox"/> Standard	
FORMATION DESCRIPTION (OR ATTACH BORING LOG*)		DEPTH	
FROM		TO	
0		2.5	
Crushed Gravel			
2.5		4.5	
CLAY			
4.5		30.4	
Silty SAND			
30.4		29.4	
LIMESTONE			
Bottom of SVE Well			
TOTAL DEPTH: 30.4 FT.		<input type="checkbox"/> *Boring Log Attached	
STATIC WATER LEVEL ~20 FT.		PUMP INSTALLED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

I hereby certify that the monitoring well herein described was constructed in accordance with Missouri Department of Natural Resources requirements.

MONITORING WELL INSTALLATION CONTRACTOR 	PERMIT NUMBER 006329-M	DATE 03/29/2021	MONITORING WELL INSTALLATION CONTRACTOR APPRENTICE (IF APPLICABLE)	PERMIT NUMBER
---	---------------------------	--------------------	--	---------------



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 GEOLOGICAL SURVEY PROGRAM  
**MONITORING WELL  
 CERTIFICATION REPORT**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REFERENCE NO.		CHECK NO.	
STATE WELL NO.		REVENUE NO.	
ENTERED	APPROVED	DATE	ROUTE

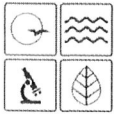
**NOTE: This form is not to be used for nested wells**

<b>OWNER AND SITE INFORMATION</b>			
PROPERTY OWNER NAME WHERE WELL IS LOCATED Bridgeton Landfill, LLC	PRIMARY PHONE NUMBER WITH AREA CODE (209) 227-9531	WELL NUMBER SVE-06	WELL COMPLETION DATE 02/05/2021
PROPERTY OWNER MAILING ADDRESS 13570 St. Charles Rock Rd	CITY Bridgeton	STATE MO	ZIP CODE 63044
PHYSICAL ADDRESS OF PROPERTY WHERE WELL IS LOCATED 13570 St. Charles Rock Rd	CITY Bridgeton	COUNTY St. Louis CO	
NAME OF SITE, BUSINESS, OR CLEANUP PROJECT Bridgeton Landfill, LLC	DNR/EPA PROJECT NUMBER OR REGULATORY SITE ID NUMBER (IF APPLICABLE) 118912	VARIANCE NUMBER (IF ISSUED) 6723	
PRIMARY CONTRACTOR NAME (PLEASE PRINT) John Gates	PERMIT NUMBER 003501-M	Section 256.607(3), RSMo, requires all primary contractors to comply with all rules and regulations promulgated pursuant to Sections 256.600 to 256.640 RSMo.	

<b>SURFACE COMPLETION</b>		LOCATION OF WELL (D/M/S FORMAT ONLY)	
TYPE <input type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount <input type="checkbox"/> Locking Cap <input type="checkbox"/> Weep Hole	LENGTH AND DIAMETER OF SURFACE COMPLETION Length <u>n/a</u> FT. Diameter <u>n/a</u> IN.	DIAMETER AND DEPTH OF THE HOLE SURFACE COMPLETION WAS PLACED Diameter <u>24</u> IN. Length <u>2.5</u> FT.	Latitude <u>38</u> ° <u>45</u> ' <u>50.29</u> " Longitude <u>90</u> ° <u>26</u> ' <u>48.77</u> "
SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____		SMALLEST _____ LARGEST _____ Section _____ Township _____ North Range _____ <input type="checkbox"/> E <input type="checkbox"/> W	
ANNULAR SEAL Length <u>n/a</u> FT. <input type="checkbox"/> Slurry <input type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Cement/Slurry		TYPE OF WELL (CHECK ONE) <input type="checkbox"/> Direct Push <input checked="" type="checkbox"/> Extraction <input type="checkbox"/> Inclinator <input type="checkbox"/> Gas Migration <input type="checkbox"/> Injection <input type="checkbox"/> Lysimeter <input type="checkbox"/> Observation <input type="checkbox"/> Open Hole <input type="checkbox"/> Other (specify) _____ <input type="checkbox"/> Piezometer <input type="checkbox"/> Standard	
IF CEMENT/BENTONITE MIX: Bags of Cement Used _____ % of Bentonite Used _____ Water Used Per Bag _____ GAL.		MONITORING FOR (CHECK ALL THAT APPLY) <input type="checkbox"/> Explosives <input type="checkbox"/> Metals <input type="checkbox"/> Pesticides/Herbicides <input type="checkbox"/> Petroleum <input type="checkbox"/> Radionuclides <input type="checkbox"/> SVOCs <input type="checkbox"/> VOCs (non-petroleum) <input type="checkbox"/> Geotechnical Data	
SECONDARY FILTER PACK LENGTH <u>n/a</u> FT.		DEPTH	
DEPTH TO TOP OF PRIMARY FILTER PACK <u>4.5</u> FT.		FROM TO FORMATION DESCRIPTION (OR ATTACH BORING LOG*)	
LENGTH OF PRIMARY FILTER PACK <u>36.2</u> FT.		0 2.5 Crushed Gravel 2.5 4.5 CLAY 4.5 40.7 Silty SAND 40.7 LIMESTONE 39.7 Bottom of SVE Well	
SCREEN Screen Diameter <u>6</u> IN. Screen Length <u>34.7</u> FT. Diameter Of Drill Hole <u>12</u> IN. Depth To Top <u>5.0</u> FT.		TOTAL DEPTH: <u>40.7</u> FT. <input type="checkbox"/> *Boring Log Attached	
SCREEN MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		STATIC WATER LEVEL <u>~20</u> FT.	
BENTONITE SEAL Length <u>2</u> <input checked="" type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Saturated Zone <input checked="" type="checkbox"/> Hydrated		PUMP INSTALLED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

I hereby certify that the monitoring well herein described was constructed in accordance with Missouri Department of Natural Resources requirements.

MONITORING WELL INSTALLATION CONTRACTOR 	PERMIT NUMBER 006329-M	DATE 03/29/2021	MONITORING WELL INSTALLATION CONTRACTOR APPRENTICE (IF APPLICABLE)	PERMIT NUMBER
---	---------------------------	--------------------	--	---------------



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 GEOLOGICAL SURVEY PROGRAM  
**MONITORING WELL  
 CERTIFICATION REPORT**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REFERENCE NO.		CHECK NO.	
STATE WELL NO.		REVENUE NO.	
ENTERED	APPROVED	DATE	ROUTE

**NOTE: This form is not to be used for nested wells**

**OWNER AND SITE INFORMATION**

PROPERTY OWNER NAME WHERE WELL IS LOCATED Bridgeton Landfill, LLC		PRIMARY PHONE NUMBER WITH AREA CODE (209) 227-9531	WELL NUMBER SVE-07	WELL COMPLETION DATE 03/02/2021
PROPERTY OWNER MAILING ADDRESS 13570 St. Charles Rock Rd		CITY Bridgeton	STATE MO	ZIP CODE 63044
PHYSICAL ADDRESS OF PROPERTY WHERE WELL IS LOCATED 13570 St. Charles Rock Rd		CITY Bridgeton	COUNTY St. Louis CO	
NAME OF SITE, BUSINESS, OR CLEANUP PROJECT Bridgeton Landfill, LLC		DNR/EPA PROJECT NUMBER OR REGULATORY SITE ID NUMBER (IF APPLICABLE) 118912		VARIANCE NUMBER (IF ISSUED) 6723
PRIMARY CONTRACTOR NAME (PLEASE PRINT) John Gates		PERMIT NUMBER 003501-M	Section 256.607(3), RSMo, requires all primary contractors to comply with all rules and regulations promulgated pursuant to Sections 256.600 to 256.640 RSMo.	

**SURFACE COMPLETION**

TYPE <input type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount  <input type="checkbox"/> Locking Cap <input type="checkbox"/> Weep Hole	LENGTH AND DIAMETER OF SURFACE COMPLETION Length <u>n/a</u> FT. Diameter <u>n/a</u> IN.	DIAMETER AND DEPTH OF THE HOLE SURFACE COMPLETION WAS PLACED Diameter <u>24</u> IN. Length <u>2.0</u> FT.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____
---	---	---	--

LOCATION OF WELL (D/M/S FORMAT ONLY)		
Latitude	<u>38</u> ° <u>45</u> ' <u>49.57</u> "	
Longitude	<u>90</u> ° <u>26</u> ' <u>48.78</u> "	

<b>SURFACE COMPLETION</b> <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	
--	--

SMALLEST	LARGEST
<u>1/4</u>	<u>1/4</u>
Section _____ Township _____ North	
Range _____ <input type="checkbox"/> E <input type="checkbox"/> W	

Elevation _____ FT.	
<b>ANNULAR SEAL</b> Length <u>n/a</u> FT. <input type="checkbox"/> Slurry <input type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Cement/Slurry	
<b>IF CEMENT/BENTONITE MIX:</b> Bags of Cement Used _____ % of Bentonite Used _____ Water Used Per Bag _____ GAL.	
<b>SECONDARY FILTER PACK LENGTH</b> <u>n/a</u> FT.	

<b>TYPE OF WELL (CHECK ONE)</b>		
<input type="checkbox"/> Direct Push	<input checked="" type="checkbox"/> Extraction	<input type="checkbox"/> Inclinometer
<input type="checkbox"/> Gas Migration	<input type="checkbox"/> Injection	<input type="checkbox"/> Lysimeter
<input type="checkbox"/> Observation	<input type="checkbox"/> Open Hole	<input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Piezometer	<input type="checkbox"/> Standard	

<b>RISER OR CASING (IF OPEN HOLE COMPLETION)</b>	
Riser/Casing Diameter	<u>6</u> IN.
Riser/Casing Length	<u>8.7</u> FT.
Diameter Of Drill Hole	<u>12</u> IN.
Weight Or SDR#	<u>40</u>

<b>MONITORING FOR (CHECK ALL THAT APPLY)</b>		
<input type="checkbox"/> Explosives	<input type="checkbox"/> Metals	
<input type="checkbox"/> Pesticides/Herbicides	<input type="checkbox"/> Petroleum	
<input type="checkbox"/> Radionuclides	<input type="checkbox"/> SVOCs	
<input type="checkbox"/> VOCs (non-petroleum)	<input type="checkbox"/> Geotechnical Data	

<b>MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	
---	--

DEPTH		FORMATION DESCRIPTION (OR ATTACH BORING LOG*)
FROM	TO	

<b>BENTONITE SEAL</b> Length <u>2.5</u> <input checked="" type="checkbox"/> Chips <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Saturated Zone <input checked="" type="checkbox"/> Hydrated	
<b>SCREEN</b> Screen Diameter <u>6</u> IN. Screen Length <u>31</u> FT. Diameter Of Drill Hole <u>12</u> IN. Depth To Top <u>5.0</u> FT.	
<b>SCREEN MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	
<b>DEPTH TO TOP OF PRIMARY FILTER PACK</b> <u>4.5</u> FT.	

0	4.5	CLAY
4.5	37	Silty SAND
37		LIMESTONE

<b>DEPTH TO TOP OF PRIMARY FILTER PACK</b> <u>4.5</u> FT.	
<b>LENGTH OF PRIMARY FILTER PACK</b> <u>32.5</u> FT.	
<b>TOTAL DEPTH:</b> <u>37.0</u> FT.	
<b>STATIC WATER LEVEL</b> <u>~20</u> FT.	

36		Bottom of SVE Well
----	--	--------------------

<b>LENGTH OF PRIMARY FILTER PACK</b> <u>32.5</u> FT.	
<b>TOTAL DEPTH:</b> <u>37.0</u> FT.	
<b>STATIC WATER LEVEL</b> <u>~20</u> FT.	
<b>PUMP INSTALLED</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

FORMATION DESCRIPTION (OR ATTACH BORING LOG*)	
Bottom of SVE Well	

For cased wells, submit additional as-built diagrams showing well construction details including type and size of all casing, hole diameter and grout used.

I hereby certify that the monitoring well herein described was constructed in accordance with Missouri Department of Natural Resources requirements.

MONITORING WELL INSTALLATION CONTRACTOR 	PERMIT NUMBER 006329-M	DATE 03/29/2021	MONITORING WELL INSTALLATION CONTRACTOR APPRENTICE (IF APPLICABLE)	PERMIT NUMBER
---	---------------------------	--------------------	--	---------------

## **Sub-Appendix B.2**

### **Pipeline Pressure Testing Results**

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



### PIPELINE FIELD TESTING REPORT

Client: Republic Services - Bridgeton Landfill  
Project: 2021 Soil Gas Monitoring  
Engineers/Owner Rep: Dane Hale

Date: 3/5/2021  
Job No.: BT-209-21  
Page: 2

**Location:** (Bldg. to Bldg., Struct. to Struct., M.H. to M.H., Sta. to Sta., etc.)

CS-1 to east flange

**Description:** (Material and Line Usage - HDPE -Header, HDPE Force-main)

8" SDR-17 HDPE Header and 6" SDR-17 HDPE lateral

**Type of Test:** (Air, Hydrostatic, Infiltration, Exfiltration, Other)

AIR

**Test Pressure Per Spec:** 4psi

**Pipe Diameter & Length** 8" LFG -44'

<u>Start Pressure (PSI)</u>	<u>Temperature (F)</u>	<u>Start Time</u>
11	45	13:25
11	45	13:35
11	45	13:45
11	45	13:55
11	45	14:05
11	45	14:15
<u>Ending Pressure (PSI)</u>	<u>Ending Temperature (F)</u>	<u>Ending Time</u>
11	45	14:25

**Comments:** Pass / Fail (Circle One)

Date Test Performed.: 3/5/2021

Engineers/Owners Rep.: *Dane C. Hale*

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



**PIPELINE FIELD TESTING REPORT**

Client: Republic Services - Bridgeton Landfill  
Project: 2021 Soil Gas Monitoring  
Engineers/Owner Rep: Dane Hale

Date: 3/5/2021  
Job No.: BT-209-21  
Page: 1

Location: (Bldg. to Bldg., Struct. to Struct., M.H. to M.H., Sta. to Sta., etc.)

CS-1 to end of clean out by SVE-6

Description: (Material and Line Usage - HDPE -Header, HDPE Force-main)

8" gas hdpe sdr-17

Type of Test: (Air, Hydrostatic, Infiltration, Exfiltration, Other)

AIR

Test Pressure Per Spec: 4psi

Pipe Diameter & Length 8" LFG -35'

<u>Start Pressure (PSI)</u>	<u>Temperature (F)</u>	<u>Start Time</u>
9	44	13:25
9	44	13:35
9	44	13:45
9	44	13:55
9	44	14:05
9	45	14:15
<u>Ending Pressure (PSI)</u>	<u>Ending Temperature (F)</u>	<u>Ending Time</u>
9	45	14:25

Comments:  Pass /  Fail (Circle One)

Date Test Performed.: 3/5/2021

Engineers/Owners Rep.:

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



## PIPELINE FIELD TESTING REPORT

Client: Republic Services - Bridgeton Landfill  
Project: 2021 Soil Gas Monitoring  
Engineers/Owner Rep: Dane Hale

Date: 3/15/2021  
Job No.: BT-209-21  
Page: 1

Location: (Bldg. to Bldg., Struct. to Struct., M.H. to M.H., Sta. to Sta., etc.)

Flange to tie-in NE

Description: (Material and Line Usage - HDPE -Header, HDPE Force-main)

8" gas hdpe sdr-17

Type of Test: (Air, Hydrostatic, Infiltration, Exfiltration, Other)

AIR

Test Pressure Per Spec: 4psi

Pipe Diameter & Length 8" LFG - 42 LF

<u>Start Pressure (PSI)</u>	<u>Temperature (F)</u>	<u>Start Time</u>
10.5	46	8:20
10.5	46	8:30
10.5	46	8:40
10.5	46	8:50
10.5	46	9:00
10.5	46	9:05
<u>Ending Pressure (PSI)</u>	<u>Ending Temperature (F)</u>	<u>Ending Time</u>
10.5	46	14:25

Comments:  Pass  Fail (Circle One)

Date Test Performed.: 3/15/2021

Engineers/Owners Rep.:

*Dane C. Hale*

Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



**PIPELINE FIELD TESTING REPORT**

Client: Republic Services - Bridgeton Landfill  
Project: 2021 Soil Gas Monitoring CQA  
Engineers/Owner Rep: Dane Hale

Date: 3/16/2021  
Job No.: BT-209-21  
Page: 1

**Location:** (Bldg. to Bldg., Struct. to Struct., M.H. to M.H., Sta. to Sta., etc.)

Entire SVE network

**Description:** (Material and Line Usage - HDPE -Header, HDPE Force-main)

2" SDR-11 HDPE carrier of 2"x4" Forcemain

**Type of Test:** (Air, Hydrostatic, Infiltration, Exfiltration, Other)

AIR

**Test Pressure Per Spec:** 15psi-100psi

**Pipe Diameter & Length** 4" FM -290 LF

<u>Start Pressure (PSI)</u>	<u>Temperature (F)</u>	<u>Start Time</u>
30	44	8:00
30	44	8:10
30	44	8:20
30/100	44	8:30
100	44	8:40
100	44	8:50
<u>Ending Pressure (PSI)</u>	<u>Ending Temperature (F)</u>	<u>Ending Time</u>
100	44	9:00

**Comments:** Pass / Fail (Circle One)

air pressure was raised from 30psi to 100 psi from 08:30 -08:33

Date Test Performed.: 3/16/2021

Engineers/Owners Rep.: *Dane C. Hale*



Feezor Engineering, Inc.  
406 E. Walnut St.  
Chatham, IL 62629  
(217) 483-3118



## PIPELINE FIELD TESTING REPORT

Client: Republic Services - Bridgeton Landfill  
Project: 2021 Soil Gas Monitoring CQA  
Engineers/Owner Rep: Dane Hale

Date: 3/16/2021  
Job No.: BT-209-21  
Page: 1

**Location:** (Bldg. to Bldg., Struct. to Struct., M.H. to M.H., Sta. to Sta., etc.)

Entire SVE network

**Description:** (Material and Line Usage - HDPE -Header, HDPE Force-main)

4" SDR-17 HDPE outer containment of 2"x4" Forcemain

**Type of Test:** (Air, Hydrostatic, Infiltration, Exfiltration, Other)

AIR

**Test Pressure Per Spec:** 30psi

**Pipe Diameter & Length** 4" FM - 290 LF

<u>Start Pressure (PSI)</u>	<u>Temperature (F)</u>	<u>Start Time</u>
31	46	14:00
31	46	14:10
31	46	14:20
31	46	14:30
31	46	14:40
31	46	14:50
<u>Ending Pressure (PSI)</u>	<u>Ending Temperature (F)</u>	<u>Ending Time</u>
31	46	15:00

Comments: Pass / Fail (Circle One)

Date Test Performed.: 3/16/2021

Engineers/Owners Rep.:

*Dane C. Hale*

Feezor Engineering, Inc.  
3377 Hollenberg Drive  
Bridgeton, MO 63044  
(217) 483-3118



## PIPELINE FIELD TESTING REPORT

**Client:** Republic Services - Bridgeton Landfill  
**Project:** SVE Installation

**Date:** 3/15/2021  
**Job No.:** BT-209-21

**Engineers/Owner Rep:** Andrew Roberts  
**Contractor:** Fusion Solutions

**Page:** 1 of 1

**Location:** (Bldg. to Bldg., Struct. to Struct., M.H. to M.H., Sta. to Sta., etc.)

Entire SVE System

**Description:** (Material and Line Usage - HDPE -Header, HDPE Force-main)

2" SDR-9 - HDPE Airline

**Type of Test:** (Air, Hydrostatic, Infiltration, Exfiltration, Other)

AIR

**Test Pressure Per Spec:** 100 PSI

**Pipe Diameter & Length:** 2" SDR-9 - 290 LF

### Test Results

<u>Start Pressure (PSI)</u>	<u>Temperature (F)</u>	<u>Start Time</u>	<u>Notes</u>
100	52	13:30	
100	52	13:40	
100	52	13:50	
100	52	14:00	
100	52	14:10	
100	52	14:20	
<hr/>			
<u>Ending Pressure (PSI)</u>	<u>Ending Temperature (F)</u>	<u>Ending Time</u>	
100	52	14:30	

**Comments:** Pass / Fail (Circle One)

**Date Test Performed.:** 3/15/2021

**Engineers/Owners Rep.:** 

Feezor Engineering, Inc.  
3377 Hollenberg Drive  
Bridgeton, MO 63044  
(217) 483-3118



## PIPELINE FIELD TESTING REPORT

**Client:** Republic Services - Bridgeton Landfill  
**Project:** SVE Installation

**Date:** 3/8/2021  
**Job No.:** BT-209-21

**Engineers/Owner Rep:** Andrew Roberts  
**Contractor:** Fusion Solutions

**Page:** 1 of 1

**Location:** (Bldg. to Bldg., Struct. to Struct., M.H. to M.H., Sta. to Sta., etc.)

LFG Lateral - CS-1 to SVE-7

**Description:** (Material and Line Usage - HDPE -Header, HDPE Force-main)

8" SDR-17 - HDPE LFG Lateral

**Type of Test:** (Air, Hydrostatic, Infiltration, Exfiltration, Other)

AIR

**Test Pressure Per Spec:** 4 PSI

**Pipe Diameter & Length:** 8" SDR-17 - 42 LF

### Test Results

<u>Start Pressure (PSI)</u>	<u>Temperature (F)</u>	<u>Start Time</u>	<u>Notes</u>
12	56	13:00	
12	56	13:10	
12	56	13:20	
12	56	13:30	
12	56	13:40	
12	56	13:50	
<hr/>			
<u>Ending Pressure (PSI)</u>	<u>Ending Temperature (F)</u>	<u>Ending Time</u>	
12	56	14:00	

**Comments:**  Pass /  Fail (Circle One)

**Date Test Performed.:** 3/8/2021

**Engineers/Owners Rep.:** 

Feezor Engineering, Inc.  
3377 Hollenberg Drive  
Bridgeton, MO 63044  
(217) 483-3118



## PIPELINE FIELD TESTING REPORT

**Client:** Republic Services - Bridgeton Landfill  
**Project:** SVE Installation

**Date:** 3/15/2021  
**Job No.:** BT-209-21

**Engineers/Owner Rep:** Andrew Roberts  
**Contractor:** Fusion Solutions

**Page:** 1 of 1

**Location:** (Bldg. to Bldg., Struct. to Struct., M.H. to M.H., Sta. to Sta., etc.)

LFG Lateral - 8" Header to SVE-1, SVE-3 and SVE-4

**Description:** (Material and Line Usage - HDPE -Header, HDPE Force-main)

6" SDR-17 - HDPE LFG Lateral

**Type of Test:** (Air, Hydrostatic, Infiltration, Exfiltration, Other)

AIR

**Test Pressure Per Spec:** 4 PSI

**Pipe Diameter & Length:** 6" SDR-17 - 115 LF

### Test Results

<u>Start Pressure (PSI)</u>	<u>Temperature (F)</u>	<u>Start Time</u>	<u>Notes</u>
10	51	12:45	
10	51	12:55	
10	51	13:05	
10	51	13:15	
10	51	13:25	
10	51	13:35	
<hr/>			
<u>Ending Pressure (PSI)</u>	<u>Ending Temperature (F)</u>	<u>Ending Time</u>	
10	52	13:45	

**Comments:**  Pass /  Fail (Circle One)

**Date Test Performed.:** 3/15/2021

**Engineers/Owners Rep.:** 

## **APPENDIX C**

### **CONSTRUCTION CERTIFICATION DRAWINGS (REDUCED SET)**

<b>Drawing 000</b>	Title Page
<b>Drawing 001</b>	Site Plan
<b>Drawing 002</b>	SVE Installation Plan View
<b>Drawing 003</b>	Details 1
<b>Drawing 004</b>	Details 2

---

AS-BUILT RECORD DRAWINGS FOR THE

# BRIDGETON LANDFILL

# 2021 SVE INSTALLATION

---

APRIL 2021  
PREPARED FOR:

***Bridgeton Landfill, LLC***

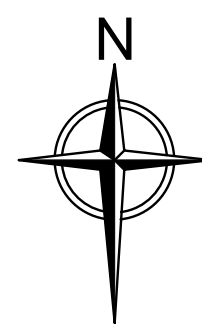
13570 ST. CHARLES ROCK ROAD  
BRIDGETON, MISSOURI 63044



3377 HOLLENBERG DRIVE  
BRIDGETON, MO 63044  
TEL. (217) 483-3118

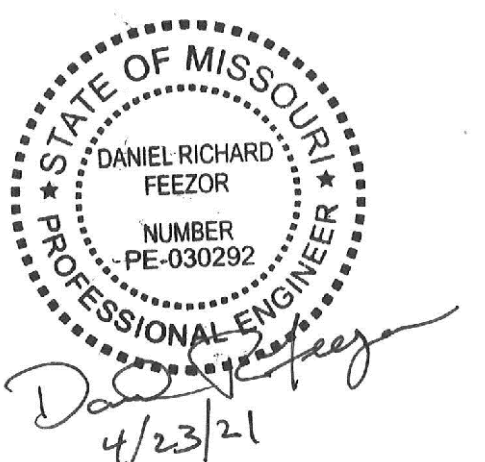


LOCATION MAP



INDEX OF DRAWINGS

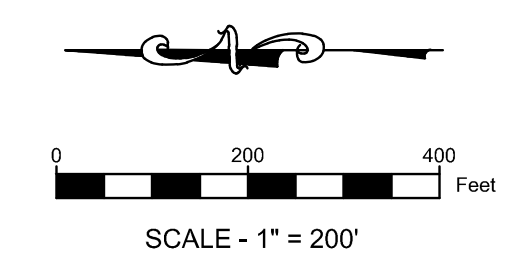
	TITLE PAGE
001	SITE PLAN
002	SVE INSTALLATION PLAN VIEW
003	DETAILS 1
004	DETAILS 1





**LEGEND**

---	SOLID WASTE BOUNDARY
○	QUARRY WALL
---	WEST LAKE AREA 1
---	WEST LAKE AREA 2
⊙	GAS MONITORING PROBE
⊙	TEMPORARY GAS MONITORING PROBE
⊙	PIEZOMETER MONITORING WELL
⊙	GAS EXTRACTION WELL
⊙	INTERCEPTOR TRENCH SUMP
⊙	SURFACE EXTRACTION WELL
⊙	PERIMETER GAS EXTRACTION WELL
⊙	LFG ISOLATION VALVE
⊙	LEACHATE ISOLATION VALVE
⊙	FLOW METER
⊙	GRIT CHAMBER
⊙	LIFT STATION
⊙	CONDENSATE SUMP
⊙	CONDENSATE TRAP/HEADER CONNECTION SUMP
⊙	LEACHATE COLLECTION SUMP
⊙	HORIZONTAL COLLECTION SUMP
⊙	PERIMETER SUMP
⊙	LEACHATE COLLECTION SUMP
⊙	SURFACE COLLECTOR
⊙	TEMPERATURE MONITORING PROBE
⊙	SUBSURFACE RCP WELLS
⊙	TRENCH SUMP
⊙	INTERCEPTION TRENCH RISER
⊙	PERIMETER LEACHATE SUMP
⊙	WELL HEAD RISER
⊙	WELL BORE BOOT
⊙	TRENCH SUMP
⊙	OVER LINER TIE IN POINT
⊙	GAS INTERCEPTOR WELL
⊙	GAS INTERCEPTOR WELL/HEAT EXTRACTION POINT
⊙	CLEAN OUT
⊙	GAS EXTRACTION WELL WITH 4" STINGER
⊙	EXTRACTION POINT - ABANDONED
⊙	EXTRACTION POINT - TEMPORARILY DECOMMISSIONED
⊙	CONTAINMENT SUMP PUMP STATION FOR TOE STRIP DRAIN
⊙	DOWNSLOPE STRIP DRAIN COLLECTOR 6" RISER STUB
⊙	QUADRANT #
⊙	POWER PANEL
---	QUARRY WALL
---	LEACHATE COLLECTION PIPING
---	DUAL CONTAINED LGS FORCEMAIN (SIZE VARIES)
---	DUAL CONTAINED PERIMETER FORCEMAIN (SIZE VARIES)
---	LEACHATE COLLECTION PIPING (SIZE VARIES)
---	TOE DRAIN
---	4" PERFORATED TRENCH DRAIN
---	BUBBLE SUCKER
---	AIR LINE
---	AIR LINE (PRESSURIZED BELOW GROUND)
---	BURIED LFG COLLECTION PIPING (SIZE VARIES)
---	2" ABOVE GROUND LFG COLLECTION LATERAL PIPING
---	4" ABOVE GROUND LFG COLLECTION LATERAL PIPING
---	6" ABOVE GROUND LFG COLLECTION LATERAL PIPING
---	8" ABOVE GROUND LFG COLLECTION LATERAL PIPING
---	10" ABOVE GROUND LFG COLLECTION LATERAL PIPING
---	12" ABOVE GROUND LFG COLLECTION LATERAL PIPING
---	18" ABOVE GROUND LFG COLLECTION HEADER PIPING
---	24" ABOVE GROUND LFG COLLECTION LATERAL PIPING
---	2" PRESSURIZED AIR / 2" FORCEMAIN IN COMMON TRENCH
---	ABOVEGROUND ELECTRIC LINE
---	OVERHEAD ELECTRIC LINE
---	UNDERGROUND ELECTRIC LINE
---	SANITARY SEWER
---	MSD DISCHARGE FORCEMAIN
---	WATERMAIN
---	NATURAL GAS LINE
---	FIBER OPTIC LINE
---	TELEPHONE
---	FENCE LINE
---	INTERCEPTOR TRENCH
---	HEAT EXTRACTION EFFLUENT PIPING
---	HEAT EXTRACTION INFLUENT PIPING
---	SVE INSTALLATION AREA



**NOTES:**  
 1. AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS CO. AND IS DATED DECEMBER 9, 2020

PROJECT BRIDGETON LANDFILL 2021 SVE INSTALLATION AS-BUILT RECORD DRAWINGS BRIDGETON, ST. LOUIS COUNTY, MO	PREPARED FOR BRIDGETON LANDFILL, LLC. 13570 ST. CHARLES ROCK ROAD BRIDGETON, MISSOURI 63044	APRIL 2021 DESIGNED BY: AMR APPROVED BY: DRF	DRAWING # <b>001</b>
DRAWING TITLE <b>FACILITY PLAN</b>			REVISIONS:    DATE    DSN    APV.

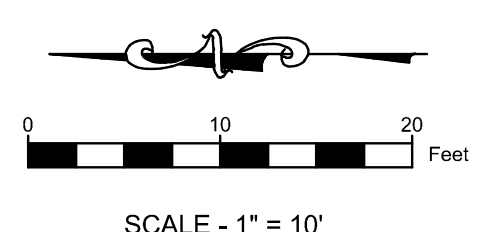
PREPARED BY: DANIEL RICHARD FEEZOR  
 PE-030292  
 4/21/21  
  
 3377 Hollenberg Dr., Bridgeton, MO 63044, Ph: 217-483-3119  
 Missouri State Certificate Of Authority # 1-200912211

PROJECT NUMBER: B1-209211 | FILE PATH: C:\Users\dmr\Documents\Feezor Engineering\Bridgeton\081001.dwg (GSA and P001) - Report1 - Appendix C - Overview



**LEGEND**

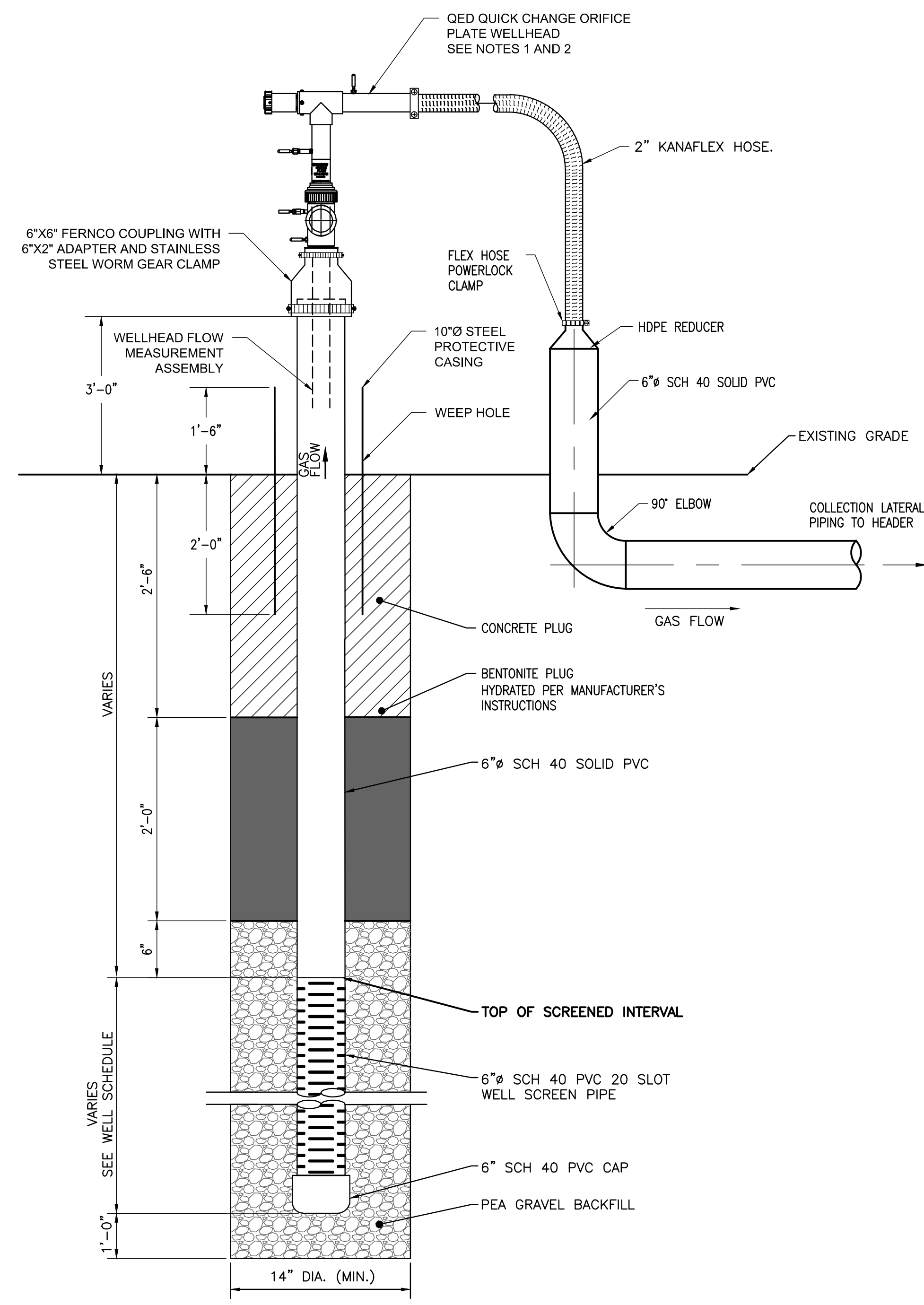
	SOLID WASTE BOUNDARY
	QUARRY WALL
	WEST LAKE AREA 1
	WEST LAKE AREA 2
	GAS MONITORING PROBE
	TEMPORARY GAS MONITORING PROBE
	PIEZOMETER MONITORING WELL
	GAS EXTRACTION WELL
	INTERCEPTOR TRENCH SUMP
	SURFACE EXTRACTION WELL
	PERIMETER GAS EXTRACTION WELL
	LFG ISOLATION VALVE
	LEACHATE ISOLATION VALVE
	FLOW METER
	GRIT CHAMBER
	LIFT STATION
	CONDENSATE SUMP
	CONDENSATE TRAP/HEADER CONNECTION SUMP
	LEACHATE COLLECTION SUMP
	HORIZONTAL COLLECTION SUMP
	PERIMETER SUMP
	LEACHATE COLLECTION SUMP
	SURFACE COLLECTOR
	TEMPERATURE MONITORING PROBE
	SUBSURFACE RCP WELLS
	TRENCH SUMP
	INTERCEPTION TRENCH RISER
	PERIMETER LEACHATE SUMP
	WELL HEAD RISER
	WELL BORE BOOT
	TRENCH SUMP
	OVER LINER TIE IN POINT
	GAS INTERCEPTOR WELL
	GAS INTERCEPTOR WELL/HEAT EXTRACTION POINT
	CLEAN OUT
	GAS EXTRACTION WELL WITH 4" STINGER
	EXTRACTION POINT - ABANDONED
	EXTRACTION POINT - TEMPORARILY DECOMMISSIONED
	CONTAINMENT SUMP PUMP STATION FOR TOE STRIP DRAIN
	DOWN-SLOPE STRIP DRAIN COLLECTOR 6" RISER STUB
	QUADRANT #
	POWER PANEL
	QUARRY WALL
	LEACHATE COLLECTION PIPING
	DUAL CONTAINED LCS FORCEMAIN (SIZE VARIES)
	DUAL CONTAINED PERIMETER FORCEMAIN (SIZE VARIES)
	LEACHATE COLLECTION PIPING (SIZE VARIES)
	TOE DRAIN
	4" PERFORATED TRENCH DRAIN
	BUBBLE SUCKER
	AIR LINE
	AIR LINE (PRESSURIZED BELOW GROUND)
	BURIED LFG COLLECTION PIPING (SIZE VARIES)
	2" ABOVE GROUND LFG COLLECTION LATERAL PIPING
	4" ABOVE GROUND LFG COLLECTION LATERAL PIPING
	6" ABOVE GROUND LFG COLLECTION LATERAL PIPING
	8" ABOVE GROUND LFG COLLECTION LATERAL PIPING
	10" ABOVE GROUND LFG COLLECTION LATERAL PIPING
	12" ABOVE GROUND LFG COLLECTION LATERAL PIPING
	18" ABOVE GROUND LFG COLLECTION LATERAL PIPING
	24" ABOVE GROUND LFG COLLECTION LATERAL PIPING
	2" PRESSURIZED AIR / 2" FORCEMAIN IN COMMON TRENCH
	ABOVEGROUND ELECTRIC LINE
	OVERHEAD ELECTRIC LINE
	UNDERGROUND ELECTRIC LINE
	SANITARY SEWER
	MSD DISCHARGE FORCEMAIN
	WATERMAIN
	NATURAL GAS LINE
	FIBER OPTIC LINE
	TELEPHONE
	FENCE LINE
	INTERCEPTOR TRENCH
	HEAT EXTRACTION EFFLUENT PIPING
	HEAT EXTRACTION INFLUENT PIPING
	WORK PLAN AREA
	2021 INSTALLED SVE WELL
	2021 INSTALLED SVE CONDENSATE SUMP



**NOTES:**  
 \* AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS CO. AND IS DATED DECEMBER 9, 2020

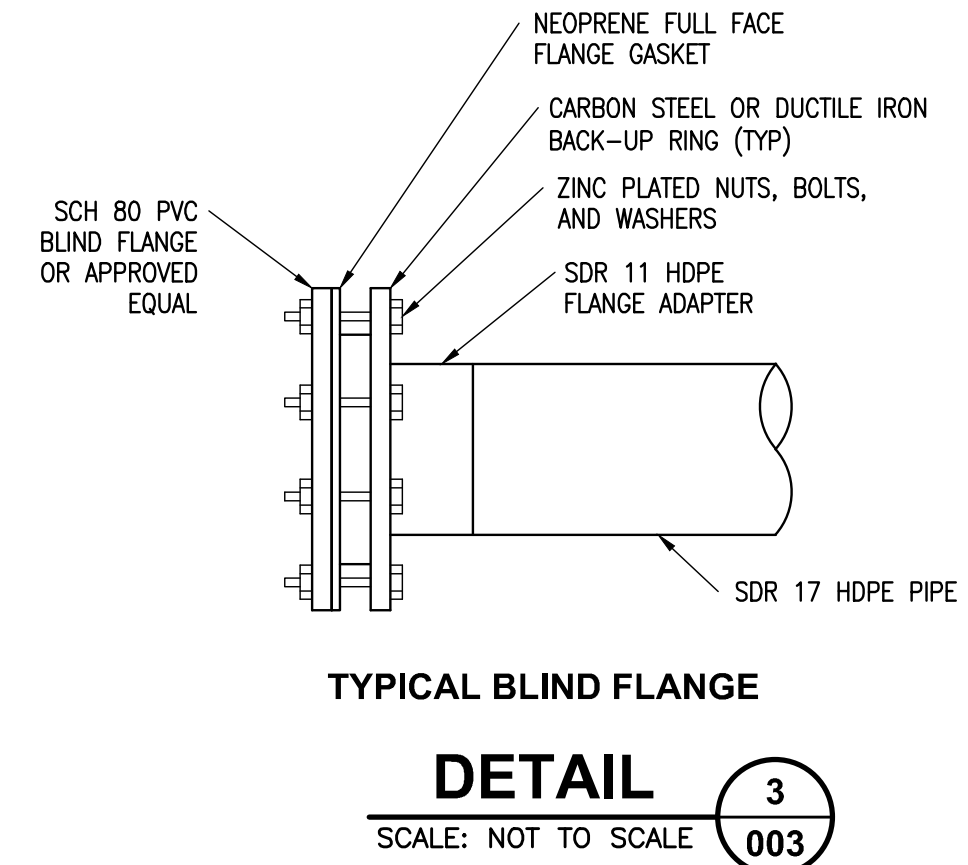
PROJECT BRIDGETON LANDFILL 2021 SVE INSTALLATION AS-BUILT RECORD DRAWINGS BRIDGETON, ST. LOUIS COUNTY, MO	PREPARED FOR BRIDGETON LANDFILL, LLC. 13570 ST. CHARLES ROCK ROAD BRIDGETON, MISSOURI 63044	APRIL 2021 DESIGNED BY: AMR APPROVED BY: DRF	DRAWING # <b>002</b>
DRAWING TITLE <b>SVE INSTALLATION PLAN VIEW</b>			REVISIONS:
PROJECT NUMBER: BT-209-21   FILE PATH: \\server\shared\Drawings\Project\Engineering\Bridgeton\BT-209-21\Gas-GIS-and-MSD-Record-01-Appearance-C-Drawings			DATE:
MISSOURI STATE CERTIFICATE OF AUTHORITY # 1-200912211			DSN:
			APPV:



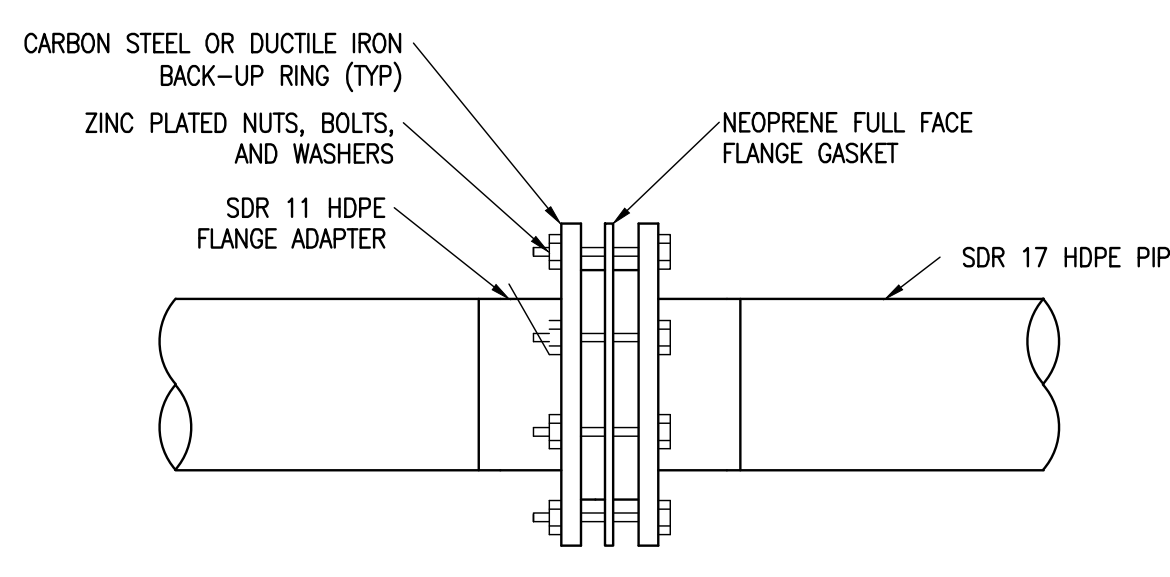


6"Ø PERIMETER SINGLE CASING EXTRACTION WELL

**DETAIL 1**  
SCALE: NOT TO SCALE 003

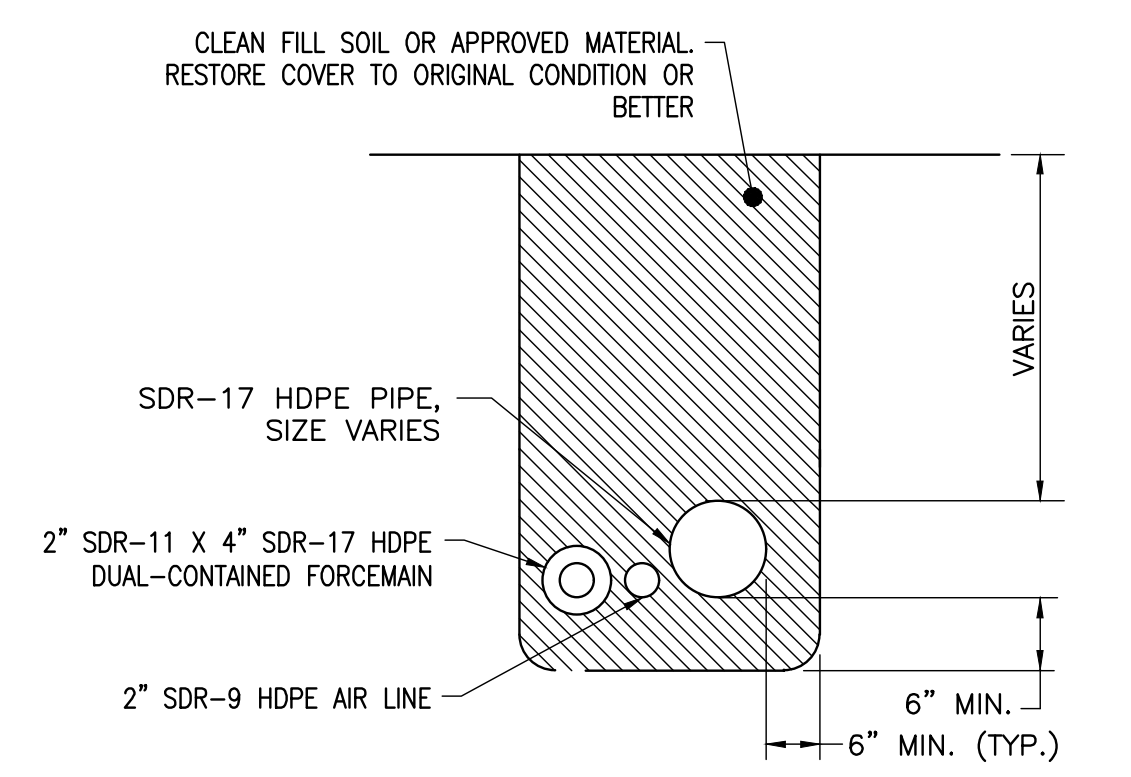


TYPICAL BLIND FLANGE  
**DETAIL 3**  
SCALE: NOT TO SCALE 003

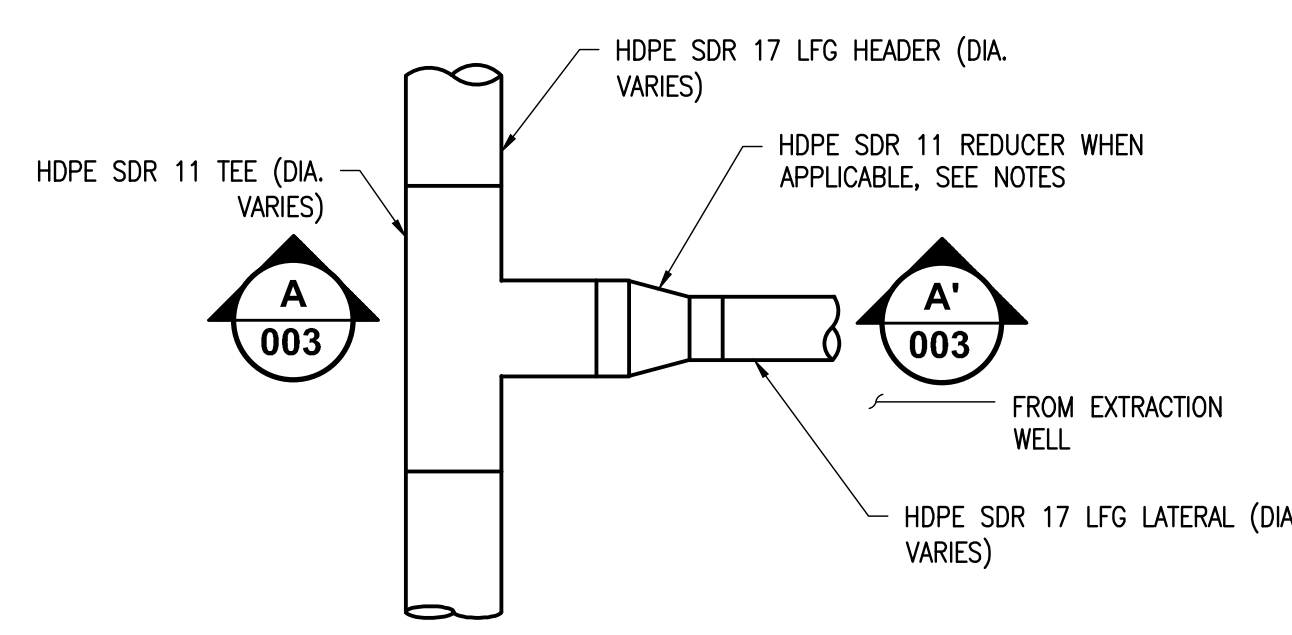


TYPICAL FLANGE CONNECTION  
**DETAIL 2**  
SCALE: NOT TO SCALE 003

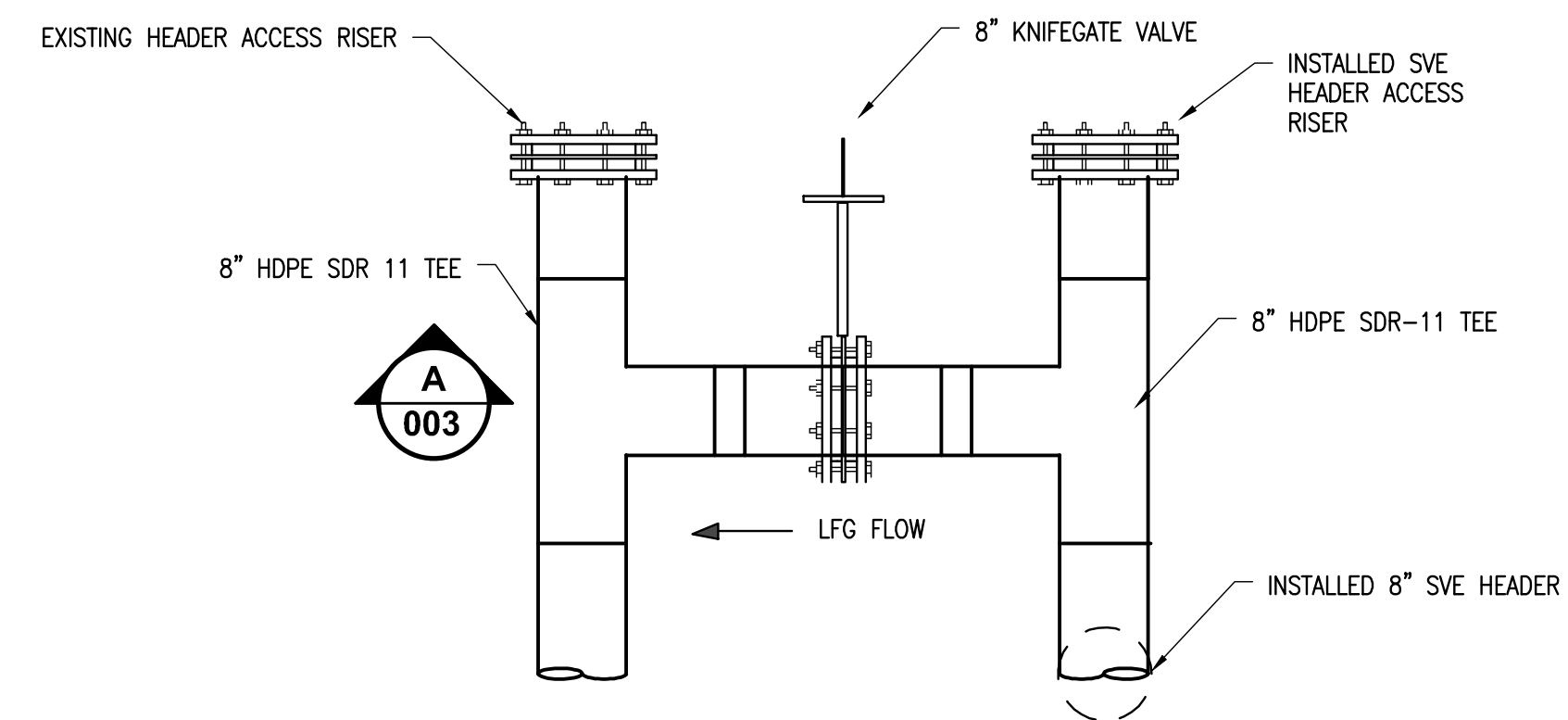
SVE WELL SCHEDULE									
WELL ID	Northing	Easting	Ground Elevation (As-Built Survey)	Bottom of Boring	Db	Solid Pipe Above Grade	Solid Pipe Below Grade	Dp	Thickness of Gravel Pack
					Boring Depth			Slotted Pipe	
			(Feet MSL)	(Feet MSL)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)
SVE-01	1,066,957.0	515,303.0	460.6	426.4	34.2	3.0	9.0	24.5	26.2
SVE-02	1,066,912.0	515,289.9	458.7	429.2	29.5	3.0	6.5	22.0	23.5
SVE-03	1,066,992.0	515,282.0	459.1	422.9	36.2	3.0	8.0	27.5	29.2
SVE-04	1,066,964.0	515,249.3	457.5	424.5	33.0	3.0	6.0	26.5	28.0
SVE-05	1,066,918.0	515,254.5	457.5	427.1	30.4	3.0	5.0	24.5	25.9
SVE-06	1,066,966.0	515,181.8	456.6	415.9	40.7	3.0	5.0	34.7	36.2
SVE-07	1,066,912.0	515,180.3	455.3	418.3	37.0	3.0	5.0	31.0	32.5



HEADER TRENCH OUTSIDE THE APPROXIMATE LIMITS OF WASTE  
**DETAIL 4**  
SCALE: NOT TO SCALE 003



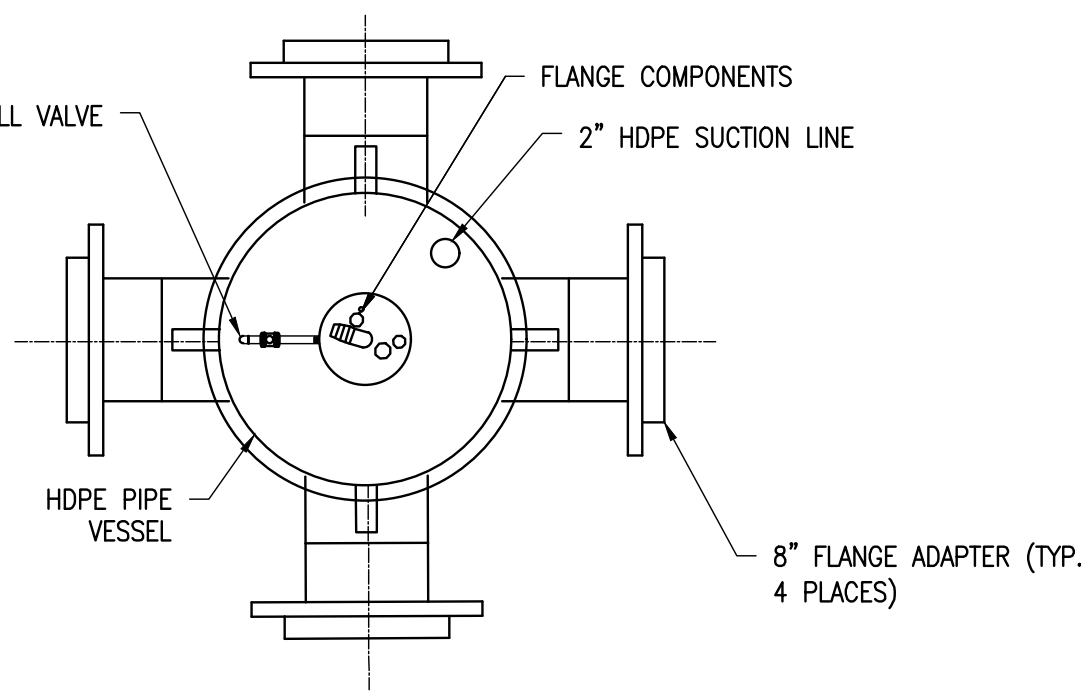
LFG LATERAL TIE-IN WITH TEE  
**DETAIL 5**  
SCALE: NOT TO SCALE 003



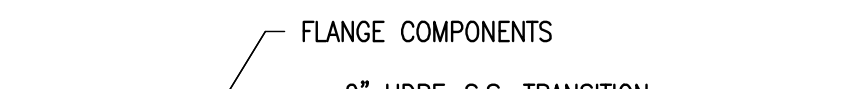
HEADER TIE-IN  
**DETAIL 6**  
SCALE: NOT TO SCALE 003

NOTES:  
AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS CO. AND IS DATED DECEMBER 9, 2020

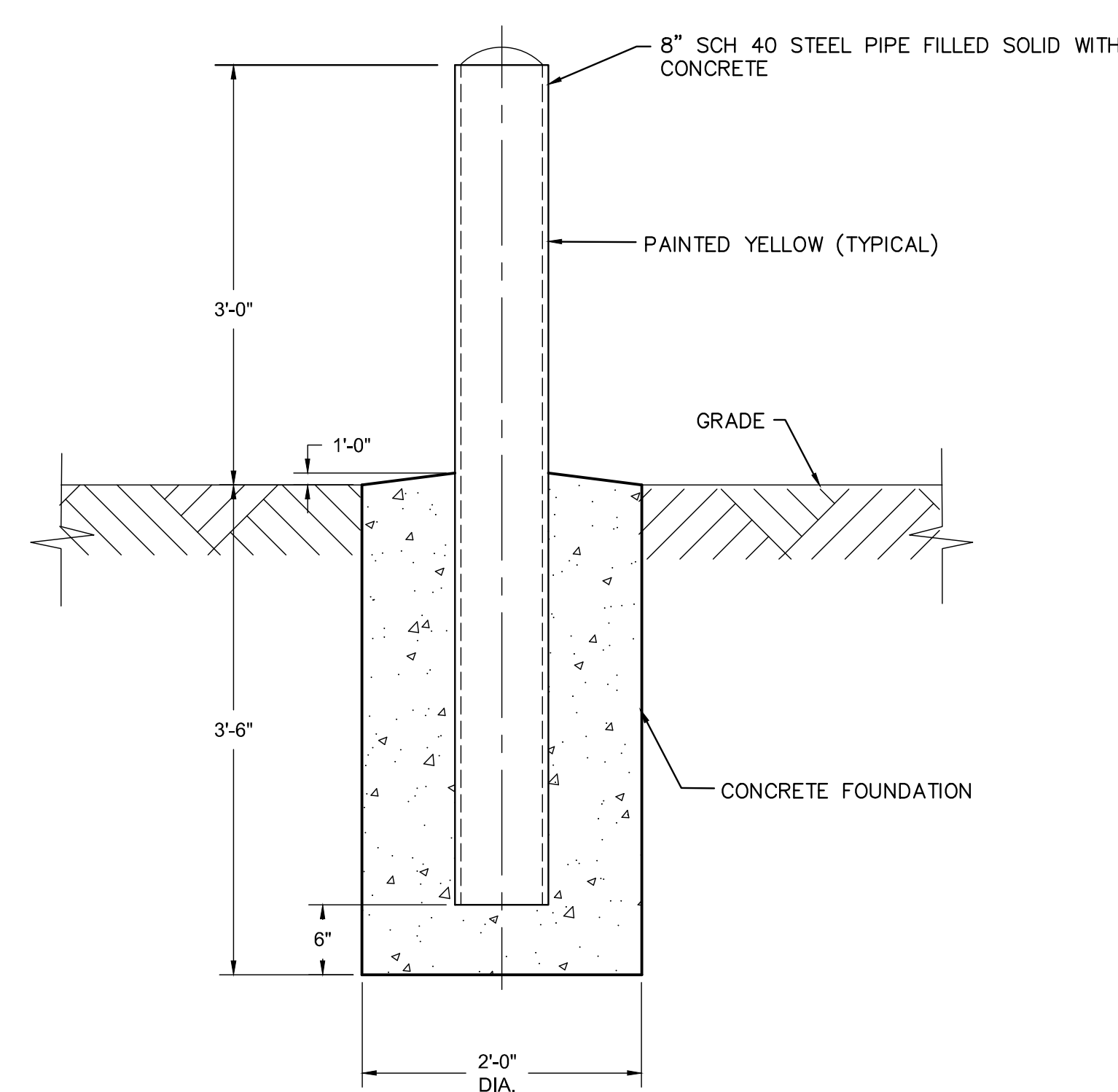
PREPARED BY: DANIEL RICHARD FEZOR PE-030292	PROJECT: BRIDGETON LANDFILL 2021 SVE INSTALLATION AS-BUILT RECORD DRAWINGS BRIDGETON, ST. LOUIS COUNTY, MO	PREPARED FOR: BRIDGETON LANDFILL, L.L.C. 13570 ST. CHARLES ROCK ROAD BRIDGETON, MISSOURI 63044	APRIL 2021 DESIGNED BY: AMR APPROVED BY: DRF	DRAWING # <b>003</b>
ENGINEERING, INC. 3377 Hollenberg Dr., Bridgeton, MO 63044 Ph: 217-483-3119 Missouri State Certificate Of Authority #: E-200912211			REVISIONS:	DATE:
PROJECT NUMBER: B1-209-21   FILE PATH: \\server\shared\Drawings\Project\Engineering\Bridgeton\B1-209-21\04-2021\003.dwg			<b>DETAILS 1</b>	



**PLAN**

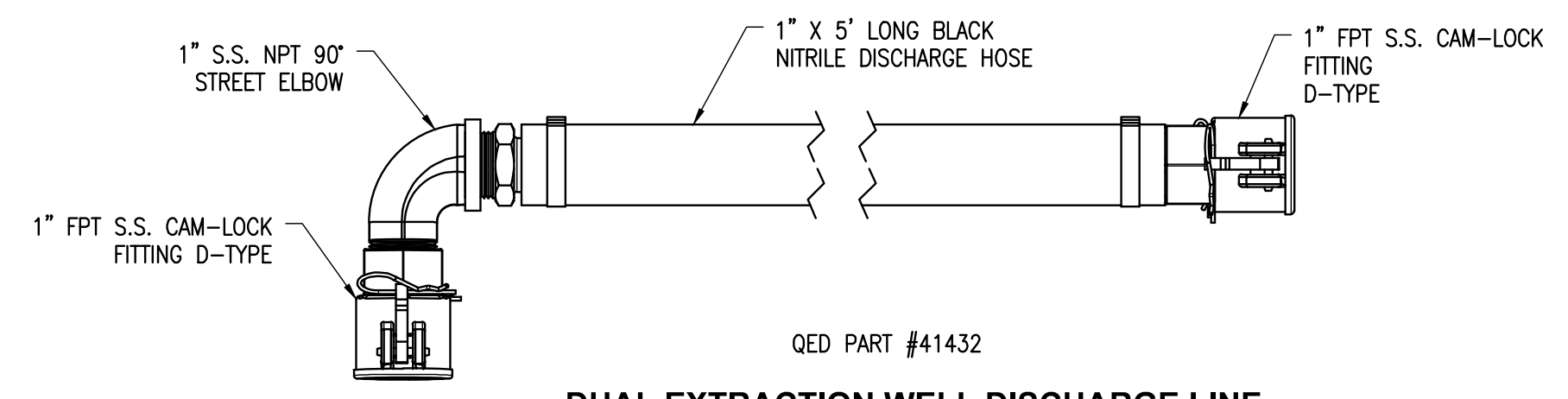


**DETAIL 1**  
SCALE: NOT TO SCALE 004



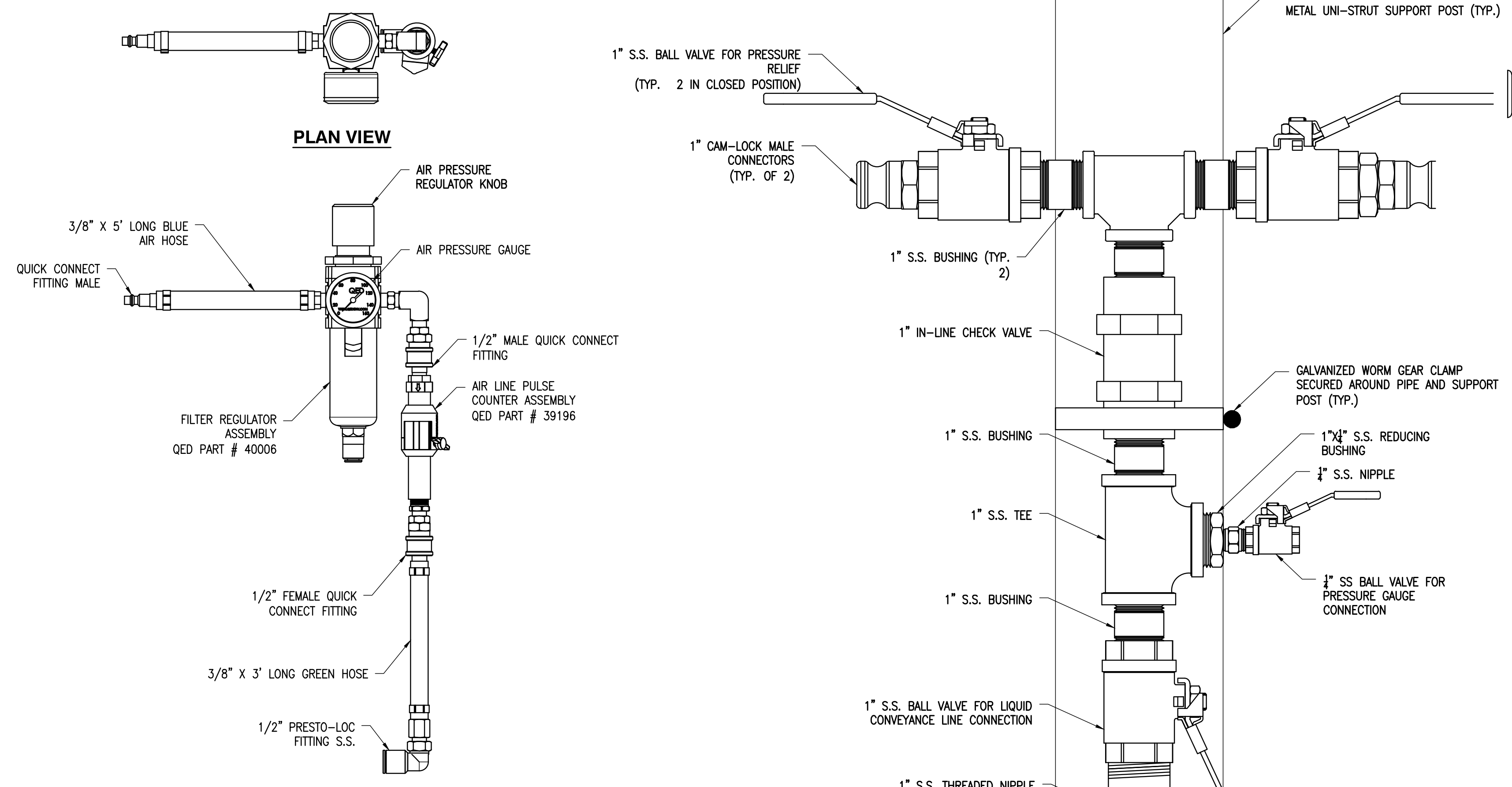
**BOLLARD**

**DETAIL 2**  
SCALE: NOT TO SCALE 004



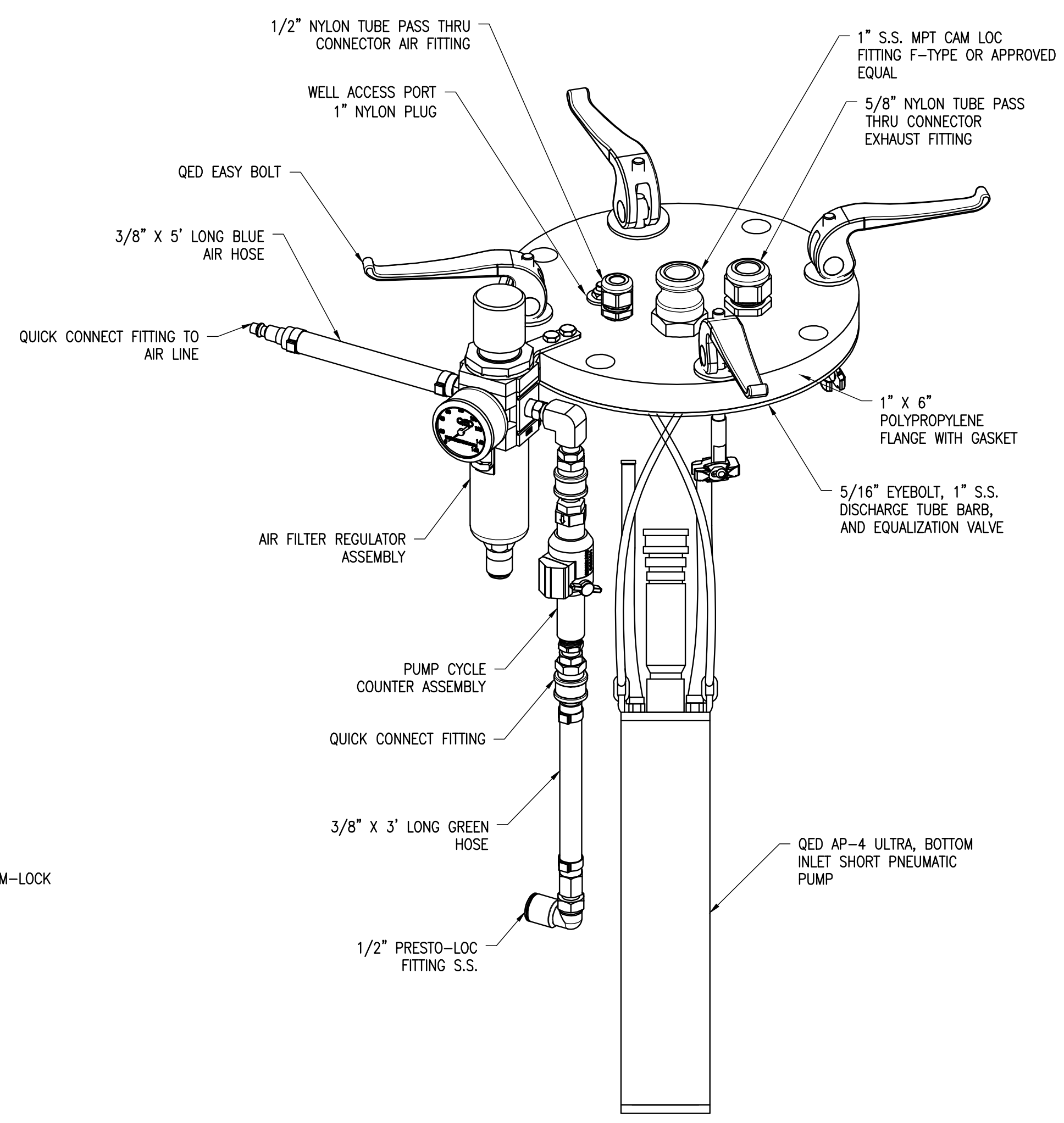
**DUAL EXTRACTION WELL DISCHARGE LINE**

**DETAIL 5**  
SCALE: NOT TO SCALE 004



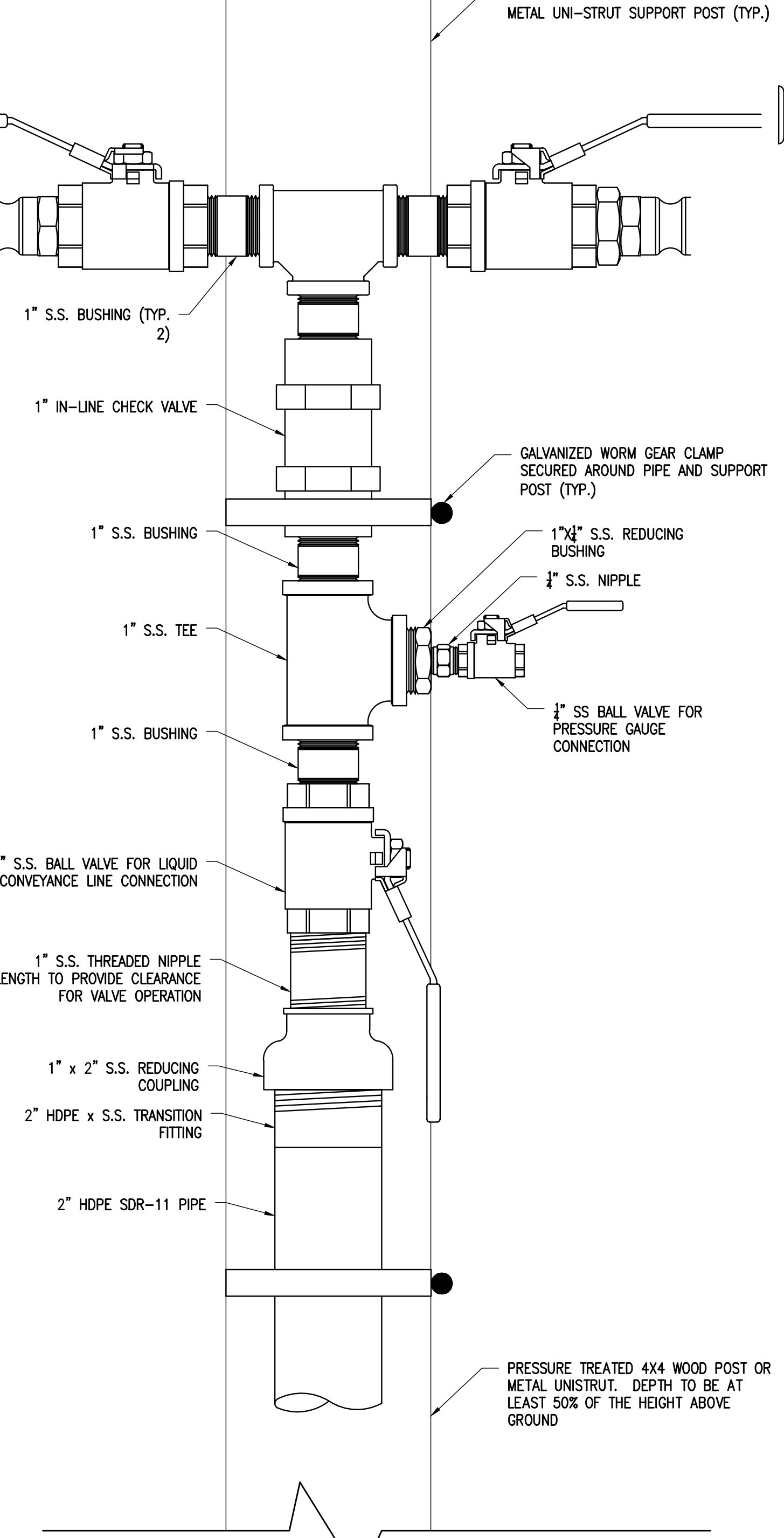
**DUAL EXTRACTION WELL AIR REGULATOR AND COUNTER**

**DETAIL 3**  
SCALE: NOT TO SCALE 004



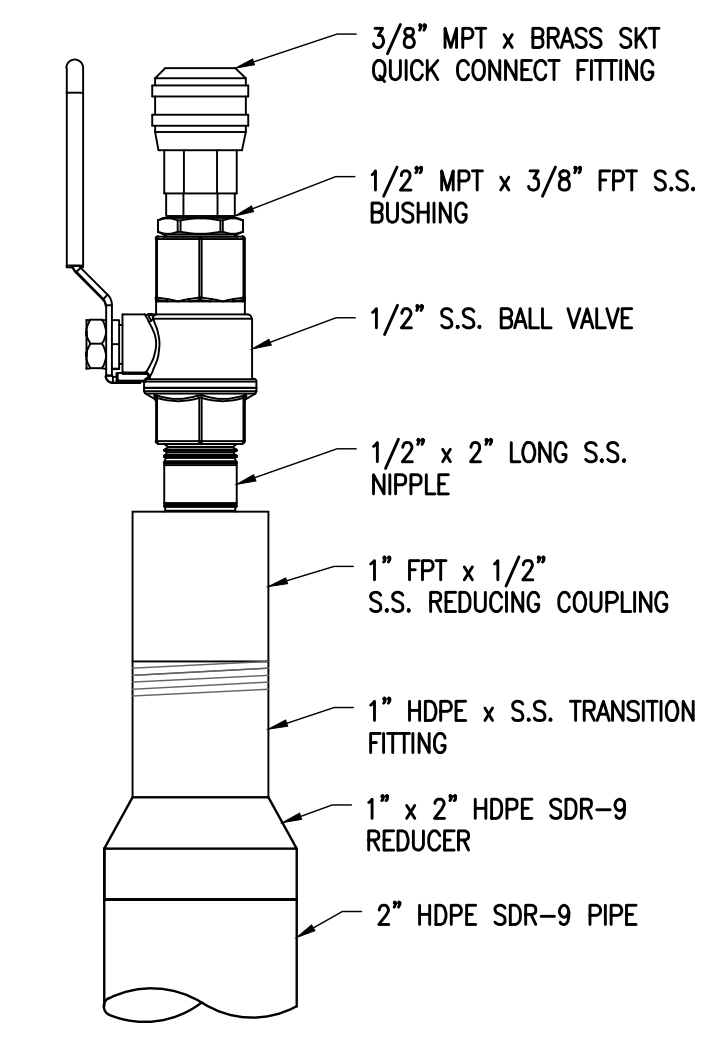
**PUMP FLANGE ASSEMBLY**

**DETAIL 6**  
SCALE: NOT TO SCALE 004



**PUMP DISCHARGE ASSEMBLY**

**DETAIL 4**  
SCALE: NOT TO SCALE 004



**AIR SUPPLY LINE VALVE**

**DETAIL 7**  
SCALE: NOT TO SCALE 004

**CONDENSATE SUMP**

**DETAIL 1**  
SCALE: NOT TO SCALE 004

NOTES:  
 \* AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS CO. AND IS DATED DECEMBER 9, 2020

PROJECT BRIDGETON LANDFILL 2021 SVE INSTALLATION AS-BUILT RECORD DRAWINGS BRIDGETON, ST. LOUIS COUNTY, MO	PREPARED FOR BRIDGETON LANDFILL, L.L.C. 13570 ST. CHARLES ROCK ROAD BRIDGETON, MISSOURI 63044	DESIGNED BY: AMR APPROVED BY: DRF	APRIL 2021	DRAWING # <b>004</b>
DANIEL RICHARD FEEZOR ENGINEERING, INC. 3377 Hollenberg Dr., Bridgeton, MO 63044 Ph: 217-483-3119 Missouri State Certificate Of Authority #: E-200912211		REVISIONS:	DATE:	DSN: APV

PROJECT NUMBER: B1-209-21 | FILE PATH: C:\Users\amr\Desktop\Feezor Engineering\Bridgeton\B1-209-21\DWG\004.dwg  
 Missouri State Certificate Of Authority #: E-200912211