PERMIT DRAWINGS FOR THE

BRIDGETON LANDFILL
2020 Q3 GCCS INSTALLATION

JULY 2020
PREPARED FOR:

LOCATION MAP

N

Bridgeton Landfill, LLC

13570 ST. CHARLES ROCK ROAD
BRIDGETON, MISSOURI 63044

Engineering for a Better World
FEEZOR
ENGINEERING, INC.

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

INDEX OF DRAWINGS

	TITLE PAGE
001	GCCS PLAN VIEW
002	DETAILS

FOR PERMITTING PURPOSES ONLY

STATE OF MISSOURI
DANIEL RICHARD FEEZOR
NUMBER E-30292
REGISTERED PROFESSIONAL ENGINEER
7/30/20

LEGEND

	SOLID WASTE BOUNDARY
	QUARRY WALL
GEW-38	GAS EXTRACTION WELL
PEW-20	PERIMETER GAS EXTRACTION WELL
SEW-63	SURFACE EXTRACTION WELL
CT-1	CONDENSATE SUMP
PEW-20	PERIMETER GAS EXTRACTION WELL
GIW-1	GAS INTERCEPTOR WELL
GIW-4	GAS INTERCEPTOR WELL/HEAT EXTRACTION POINT
GEW-38(S)	GAS EXTRACTION WELL WITH 4" STINGER
GEW-38	PROPOSED 2020 GAS EXTRACTION WELL

0 60 120 Feet

SCALE - 1" = 60'

NOTES:

- AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS CO. AND IS DATED DECEMBER 10, 2019

FOR PERMITTING PURPOSES ONLY

DANIEL RICHARD FEEZOR
PE-030292

STATE OF MISSOURI
DANIEL RICHARD FEEZOR
NUMBER
E-30292
REGISTERED PROFESSIONAL ENGINEER

7/30/20

PREPARED BY

FEEZOR ENGINEERING, INC.
Engineering for a Better World
3377 Hollenberg Dr. Bridgeton, MO 63044. Ph: 217-453-3118
Missouri State Certificate Of Authority #: E-2009312211

PROJECT
BRIDGETON LANDFILL
2020 GCCS INSTALLATION
BRIDGETON, ST. LOUIS COUNTY, MO

PREPARED FOR
BRIDGETON LANDFILL, LLC.
13570 ST. CHARLES ROCK ROAD
BRIDGETON, MISSOURI 63044

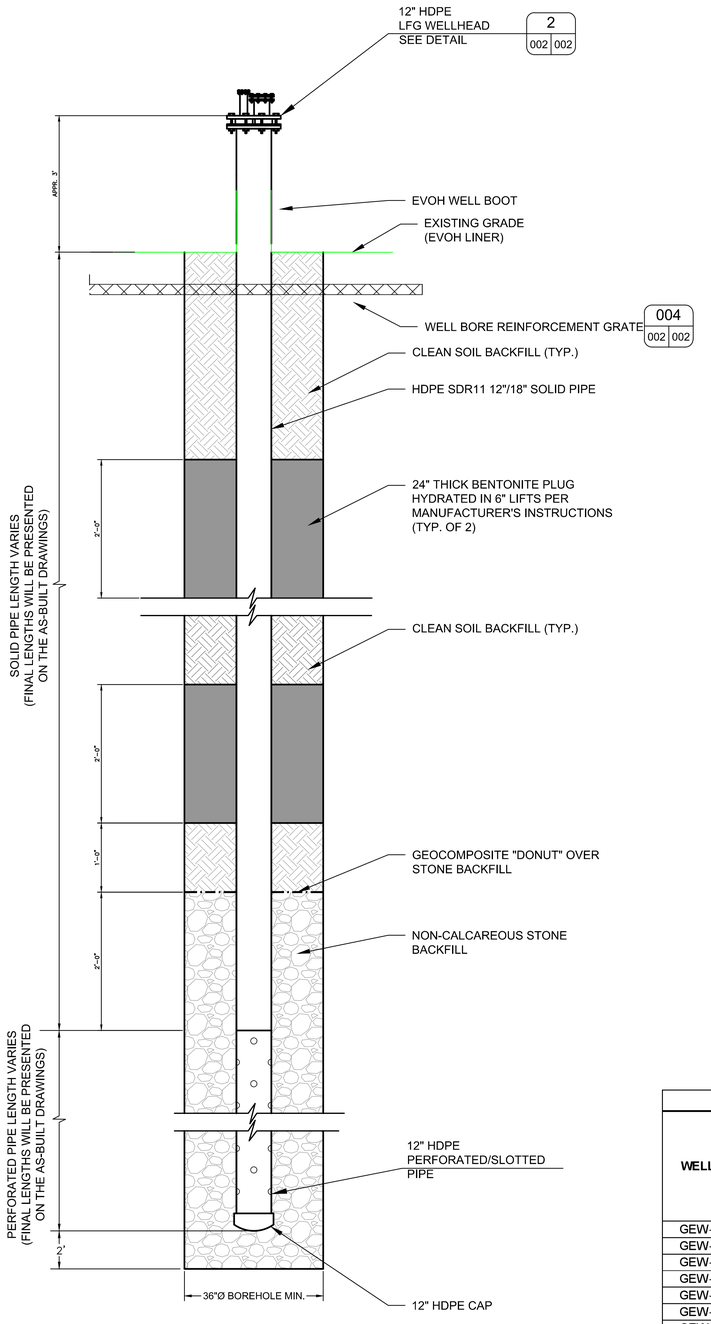
JULY 2020
DESIGNED BY: AMR
APPROVED BY: DRF

DRAWING #
001

REVISIONS:	DATE	DSN.	APV.

DRAWING TITLE
2020 GCCS PLAN VIEW

PROJECT NUMBER: BT-143-20 | FILE PATH: C:\Users\arandel\Dropbox (Feezor Engineering)\Bridgeton\20-143\BT-143-20 IT Gas Rnd\020102 - Design\1 - Preliminary Layout

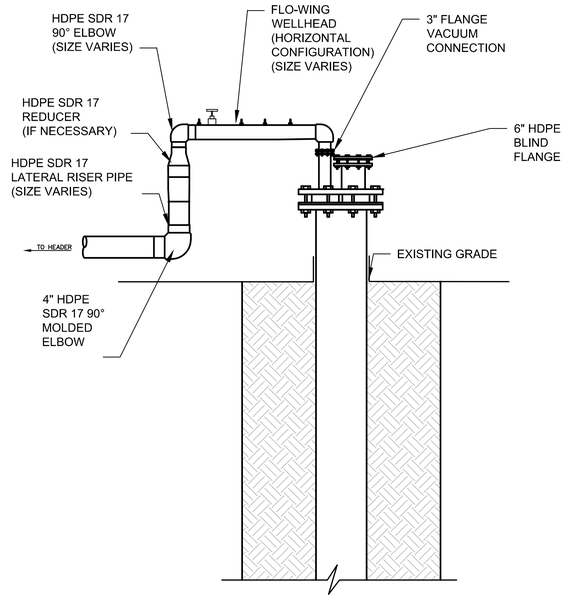


SOUTH QUARRY LFG EXTRACTION WELL DETAIL

1 (001 002)

NOT TO SCALE

LFG EXTRACTRION WELL CONSTRUCTION AND MATERIALS MAY BE ADJUSTED BASED ON FIELD CONDITIONS AS APPROVED BY THE DESIGN ENGINEER. FINAL CONFIGURATION WILL BE PRESENTED IN THE AS-BUILT RECORD DRAWINGS.



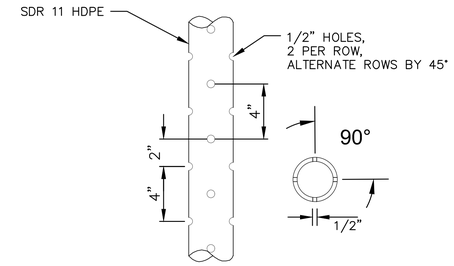
GEW WELLHEAD DETAIL

2 (002 002)

NOT TO SCALE

NOTES:

1. CONTRACTOR WILL INSTALL BRIDGETON LANDFILL TYPICAL WELLHEAD.



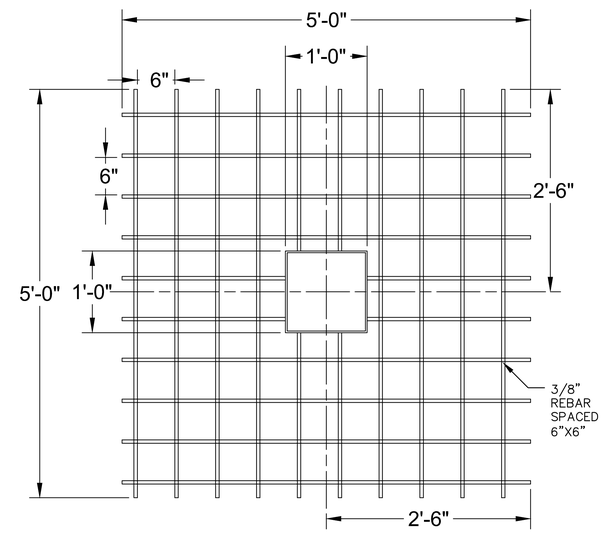
NOTES:

1. PERFORATIONS SPACED 90° APART HORIZONTALLY.
2. PERFORATIONS SPACED 4" APART VERTICALLY.
3. 90° AND 270° ROWS STAGGERED 2" BELOW 0° AND 180° ROWS.

PERFORATED PIPE DETAIL

3 (001 002)

NOT TO SCALE



WELL BORE REINFORCEMENT GRATE

4 (001 002)

NOT TO SCALE

NOTES:

1. WELL BORE REINFORCEMENT GRATE TO BE INSTALLED 30" BELOW GRADE, ABOVE THE TOP 2 FOOT BENTONITE PLUG.
2. WELL BORE REINFORCEMENT GRATE SHALL BE 100% WELDED.
3. WELL BORE REINFORCEMENT GRATE TO BE PURCHASED BY CONTRACTOR FROM REPUBLIC'S NATIONAL MATERIAL SUPPLIER.

20202 Q3 WELL SCHEDULE

WELL ID	Northing	Easting	Ground Elevation (7/28/2020 Survey)	Bottom of Boring	Quarry Bottom 1979 Topo	Db	Solid Pipe Above Grade	Solid Pipe Below Grade	Dp	Thickness of Gravel Pack
						Boring Depth			Perforated Pipe	
			(Feet MSL)	(Feet MSL)	(Feet MSL)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)
GEW-241	1,067,107.0	516,734.2	489.8	379.8	357.9	110	3	25	83	87
GEW-242	1,067,029.0	516,546.3	492.3	372.3	240.0	120	3	18	100	104
GEW-243	1,066,566.0	515,838.8	488.7	368.7	278.9	120	3	18	100	104
GEW-244	1,066,655.0	515,712.1	487.3	447.3	429.1	40	3	18	20	24
GEW-245	1,066,716.0	515,589.1	477.8	357.8	297.8	120	3	18	100	104
GEW-246	1,067,552.0	515,915.6	473.1	353.1	246.6	120	3	18	100	104
GEW-247	1,067,498.0	516,536.6	483.3	363.3	240.0	120	3	18	100	104
GEW-248	1,067,375.0	516,528.0	489.8	369.8	240.0	120	3	18	100	104
GEW-249	1,067,259.0	516,788.8	495.6	375.6	240.0	120	3	18	100	104
GEW-250	1,067,113.0	515,451.1	469.2	369.2	340.0	100	3	18	80	84
GEW-251	1,067,450.0	516,129.2	473.4	353.4	240.0	120	3	18	100	104
GEW-252	1,067,186.7	516,530.5	493.5	373.5	240.0	120	3	18	100	104
GEW-253	1,066,998.0	515,829.3	495.8	375.8	240.0	120	3	18	100	104

Notes:

"Quarry Bottom" elevation taken from 1979 topography obtained from Aquaterra

FOR PERMITTING PURPOSES ONLY

NOTES:
- AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS CO. AND IS DATED DECEMBER 10, 2019

DANIEL RICHARD FEEZOR
PE-030292
STATE OF MISSOURI
DANIEL RICHARD FEEZOR
NUMBER
E-30292
REGISTERED PROFESSIONAL ENGINEER

PREPARED BY
Engineering for a Better World
FEEZOR ENGINEERING, INC.
3377 Hollenberg Dr, Bridgeton, MO 63044, Ph: 217-483-3118
Missouri State Certificate Of Authority #: E-2009012211

PROJECT	PREPARED FOR		DRAWING #
BRDIGETON LANDFILL 2020 GCCS INSTALLATION BRIDGETON, ST. LOUIS COUNTY, MO	BRIDGETON LANDFILL, LLC. 13570 ST. CHARLES ROCK ROAD BRIDGETON, MISSOURI 63044	JULY 2020 DESIGNED BY: AMR APPROVED BY: DRF	002

DRAWING TITLE: **DETAILS 1**

REVISIONS:	DATE	DSN.	APV.

PROJECT NUMBER: BT-143-20 | FILE PATH: C:\Users\arcdar\Dropbox (Feezor Engineering)\Bridgeton\10-14\BT-143 (2017 Gas Wells)\2020\2 – Design\4 – Preliminary Layout