

INVOICE

Date: May 6, 2022
Invoice # 1799

STW Engineering, PLLC
F-14496
5962 FM 1624
Lexington, Tx 78947
979-224-7748
S.travis.weiser@gmail.com

TO
000 Little Berry Road,
Somerville, Texas 77879

SALESPERSON	JOB	PAYMENT TERMS	DUE DATE
		Due on receipt	

QTY	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	OSSF Burleson County Residential Design	\$300.00	\$300.00
SUBTOTAL			\$300.00
SALES TAX			
TOTAL			\$300.00

Make all checks payable to STW Engineering, PLLC
Thank you for your business!



Burleson County Environmental Office
 100 West Buck St, Suite 303, Caldwell TX, 77836
 Phone: (979) 567-2360
 Fax: (979) 567-2371

(Office use only)
PERMIT NUMBER

Payment Receipt Number

APPLICATION FOR AN ON-SITE SEWAGE FACILITY

All information on this form is required. If the installer does not request a construction inspection by the permitting authority within one year of the issuance of the authorization to construct, the authorization to construct expires, and the owner will be required to submit a new application and application fee before an OSSF can be installed. All systems require a construction inspection before a License-to-Operate is issued. **License-to-Operate is required before OSSF is put into service.** Fees subject to change.

Reason for Permit (check one) New Construction System Replacement System Repair/Modification Transfer of Ownership

Owner Name: _____ Phone: _____

Site Address: 000 Little Berry Road City/State: Somerville, Texas Zip: 77879

Mailing Address: (if different) _____ City/State: _____ Zip: _____

Structure Type: Structure on Slab Mobile Home Pier & Beam Other: _____

Living Area Sq Ft Less Than 2500 SF Year Structure Built: _____ Number of Bedrooms: 3 Number in Household: _____

Water Saving Devices: Yes No Name of water company or private well? _____

Subdivision Name: (if applicable) Enchanted Oaks Park Lot: 91 Acres: .5825

Property ID: 25303 Is this property in the floodplain? YES NO
The Parcel ID is available from the Burleson County Appraisal District Is this property the applicants homestead? YES NO

Directions to Property: _____

I certify that the above statements are true and correct to the best of my knowledge. Authorization is hereby given to the BURLLESON COUNTY DESIGNATED REPRESENTATIVE (DR), the authorized agent for Texas Commission On Environmental Quality (TCEQ), to enter upon the above described property for the purpose of lot evaluation and inspection of the on-site sewage facility and that a license-to-operate the facility will be granted following successful inspection of the installed system which indicates that the system was installed in compliance with the Texas Commission On Environmental Quality (TCEQ) On-Site Facility Rules, TAC30, Chapter 285.

Signature of Owner: _____ Date: _____

Installer Name: _____ Site Evaluator Name: Travis Weiser
Provide installers name NOT the company name

License #: _____ License #: 107845

Phone #: _____ Phone #: 979-224-7748

Installer Email: _____ Designer Name: Travis Weiser

License #: (RS or PE) 107845

Phone #: 979-224-7748

..... Installer please write in GPD next to system type

Standard Trench/Bed: _____	Leaching Chamber: _____	Evapotranspiration Bed: _____
Surface Application: _____	Drip Irrigation: _____	Pumped Effluent: _____
Gravel-less Pipe: _____	EZflow System: _____	PTI System: _____
Low Pressure Dosing: _____	Absorptive Mound: _____	Other: _____

OFFICE USE ONLY					
Residential \$330	Commercial \$540	Re-Inspection \$165	Modification \$165	Repair \$100	ref # _____
<small>MODIFICATION – OSSF systems with current permit on record; modification includes any changes that add to or take away from the original design of the OSSF system. REPAIR –OSSF systems with current permit on record in need of repair due to collapsed lines, tanks, etc. Repairs do not alter the original design of the OSSF.</small>					date _____

OSSF SOIL EVALUATION FORM

Date Performed: 4/26/22

Property Location: Little Berry Road, Somerville, Texas

Site Evaluator: Travis Weiser

Proposed Excavation Depth: 5'

Requirements:

- At least two soil excavations must be performed on the site, at upper and lower elevations and spanning the area of the proposed disposal area.
- Location of the soil boring or dug pits must be performed to a depth of at least two feet below the proposed excavation depth, or to restrictive horizon. For surface disposal, the surface horizon must be evaluated.
- Describe each soil horizon and identify any restrictive features on the form. Indicate the depths of the features.

Soil Boring Number: _____					
Depth (inches)	Texture & Classification	Drainage (Mottles/Water Table)	Restrictive Horizon	Gravel Analysis	Observations/Notes
0" _____		None	No	0%	
12" _____					
24" _____					
36" _____					
48" _____					
60" _____					
72" _____					

Soil Boring Number: _____					
Depth (inches)	Texture & Classification	Drainage (Mottles/Water Table)	Restrictive Horizon	Gravel Analysis	Observations/Notes
0" _____			Same		
12" _____					
24" _____					
36" _____					
48" _____					
60" _____					
72" _____					

I hereby certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

Site Evaluator Name: Travis Weiser
(printed)

Signature:

Site Evaluator License #: 107845

Date: 5/6/22

Travis Weiser, PE 107845
STW Engineering, PLLC F-14496
5962 FM 1624
Lexington, Tx 78947
979-224-7748
s.travis.weiser@gmail.com

May 6, 2022

Job # 1799

Name:

Address: 000 Little Berry Road, Somerville, Texas 77879

County: Burlison

Subdivision: S2507 ENCHANTED OAKS PARK LOT 91 0.5825 ACRES

Notes:

Design Parameters:

Septic Tanks: 1- 1000-gal Two Compartment Treatment tank

Pump Tank: NA

Select Fill: Use existing class II soil

Gravel: 18 CY (3/4 inch to 2 inch Washed, Clean, and Graded Gravel)

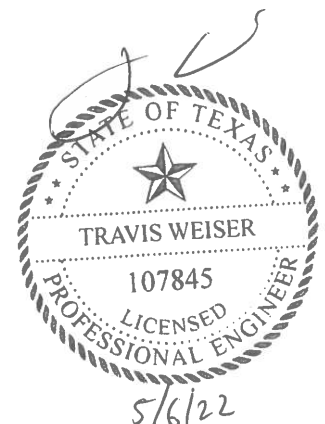
Laterals: 240 ft (4" Sch 35 Perforated Pipe)

Distribution: 30 feet (4" SCH 40 PVC)

Casing Pipe: NA (6" SCH 40 PVC)

Valves:

Pump:



House Details

Number of Bedrooms: 3

Square Footage: Less Than 2500 SF

Drainage: The site has positive drainage, sloping away from the house at approx 1.5%.

Water Saving Fixtures: Yes

Water Supply: Public Water Supply

Presence of 100-year Floodplain: No

Presence of upper water shed: No

Presence of adjacent ponds, streams, water impoundments: No

Existing or proposed water well in nearby area: Yes

Organized sewage service available to lot or tract: No

Evidence of groundwater: No

Daily Flow: 240 gpd

Septic Tank Sizing:

For Q equal to or less than 250 gal/day: $V=750$ gallons

We will install One - 1000 gallons two compartment for the trash tank.

Soil Details

Soil Class: II

Maximum Load Rate: 0.25

Lateral Design

$$A = Q/Ra$$

$$Q = 240 \text{ gpd}$$

$$Ra = 0.25$$

$$A = 240/.25$$

$$A = 960 \text{ SF}$$

$$L=(A-2W)/(W+2)$$

$$L= (960-2(2))/ (2+2) = 239 \text{ LF Required and } 240 \text{ LF Designed}$$

Notes:

1. Minimum of 5' between centerline of Lateral piping.
2. The lateral distribution lines should be a minimum of 18" below grade and maximum of 36" below grade.
3. Tank inlet and outlet tees connections per 30 TAC 285 (tees with extensions to 25-50% of tank depth).
4. The bottom of the excavation shall be level to within one inch over each 25 feet of excavation or within three inches over the entire excavation, which is less.
5. Trench to have 6" rock below pipe and 6" rock above pipe and a minimum of 6" of Class 1B, II or III soil back filled over rock. Geo-Textile fabric to be placed between the Rock and the imported select fill. Or Gravel less pipe can be used as a substitute.
6. The media shall consist of clean, washed and graded gravel, broken concrete, rock, crushed stone, chipped tires, or similar aggregate that generally one uniform size and approved by the executive director. The size of the media must range from 0.75 – 2.0 inches as measured along its greatest dimensions.
7. A Two-way cleanout plug must be provided between the sewer stub out and the Treatment tank. Only sanitary type fittings constructed of PVC Sch. 40 or SDR 26 shall be used on this section of the sewer.
8. Maintain minimum 1.0% grade in pipes from Septic tank to Drain field.
9. Maintain 1/8-inch fall per foot slope between house and Septic Tanks.
10. Immediately after completion of installation, homeowner must seed the drainage field with Bermuda AND Rye grass, as necessary in disturbed areas, and mow as necessary to maintain optimum growing conditions.
11. System is designed in accordance with daily water usage described above. Any usage above designed will invalidate design.
12. All pre-cast concrete tanks will meet ASTM C1227-93a, d30 Texas Administrative Code 5.32(a) (1) (F).
13. Pipe Bedding. Pipes such as sewer pipes from the structure to the treatment facility and from the treatment facility to the disposal component shall be bedded with four inches of Class IB, Class II, or Class III soil with less than 30% gravel. The bedding soil shall be free of organic material and any rocks or grains larger than ½ inch.
14. Tank inlet and outlet tees connections per 30 TAC 285 (tees with extensions to 25-50% of tank depth).
15. A minimum of four inches of sand, sandy loam, clay loam, or pea gravel, free of rock larger than ½ inch in diameter, shall be placed under and around all tanks, except poured-in-place concrete tanks. Unless otherwise approved by permitting authority, tank excavations shall be left open until they have been inspected by the permitting authority. Tank excavations must be backfilled with soil or pea gravel that is free of rock larger than ½ inch in diameter. Class IV soil and gravel larger than one-half inch in diameter are not acceptable for use as backfill material.
16. Installer shall provide risers and tank inspection ports to grade with access safety provisions per 30 TAC 285.38 (9/1/2012). This should include access limitation (>65-lb lid or hardware secured lid) and secondary plug, net, or mesh in riser.

Thank You,


Travis Weiser, PE

5962 FM 1624

Lexington, Texas 78947

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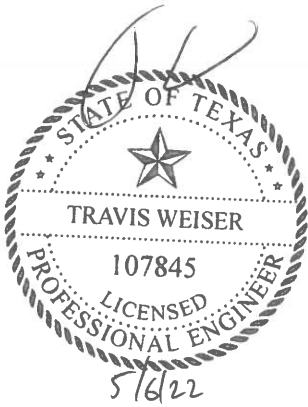
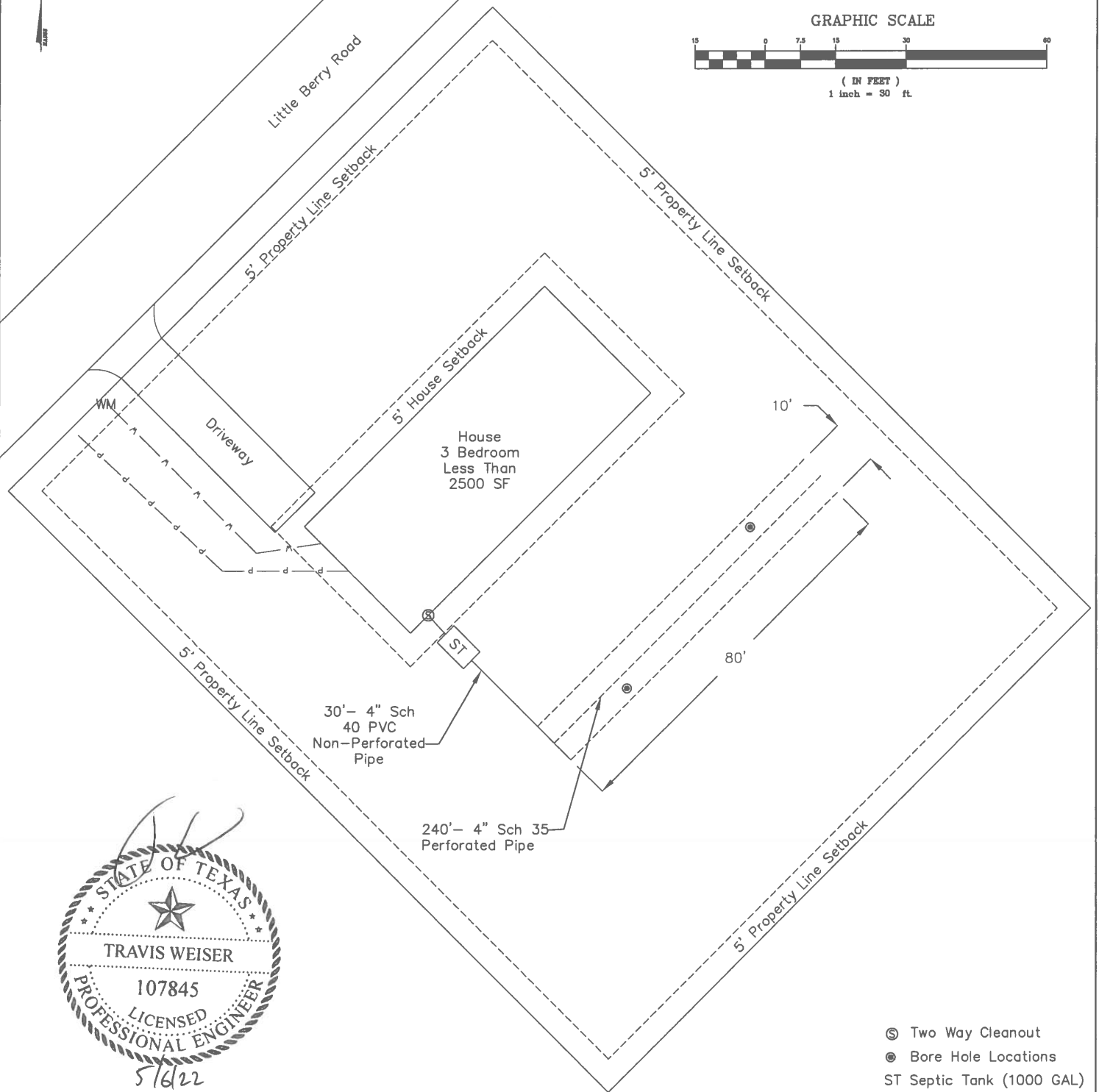
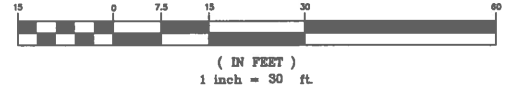
Burleson County, Texas



Notes:

1. No part of the disposal area is within 10 foot of a potable waterline.
2. Grass seed shall be distributed over disturbed earth.
3. Maximum separation distance between cleanouts is 100'.

GRAPHIC SCALE



Pipe Table:

1. Collection main (House to Tank) - 4" Sch 40 PVC at 1/8" per foot min
2. Distribution Main (Tank to Manifold) - 4" Sch 40 PVC

- ⊙ Two Way Cleanout
- Bore Hole Locations
- ST Septic Tank (1000 GAL)
- Perforated Pipe
- Solid Pipe
- v — Waterline
- P — Power line
- x — Fence line

STW Engineering, PLLC F-14496	By: JW	Date: 05/06/22	Scale: 1" = 30'
5962 FM 1624, Lexington Texas 78947	Rev:	File#OSSF Little Berry Rd.dwg	WO #1799

CONCRETE SPECIFICATIONS:

1. THE MINIMUM COMPRESSIVE STRENGTH SHALL BE 4500 PSI @ 28 DAYS OF AGE.
2. THE CONCRETE COVER FOR REINFORCING BARS, MATS, OR FABRIC SHALL NOT BE LESS THAN 1 IN.

GENERAL NOTES:

1. THIS TANK MEETS THE REQUIREMENTS OF ASTM C1227-12 STANDARD SPECIFICATION FOR PRECAST CONCRETE SEPTIC TANKS.
2. ACCESS COVERS MAY BE BURIED BELOW GRADE W/ A MINIMUM 6" COVER, BUT NOT TO EXCEED 12". IF COVER EXCEEDS 12", RISERS WILL BE REQUIRED TO MAKE TOP OF COVER MEET REQUIREMENTS.
3. TANKS SHALL BE CLEARLY MARKED WITHIN 2'-0" OF TANK INLET, PROVIDING THE FOLLOWING INFORMATION:
 - MANUFACTURED NAME OR TRADEMARK OF MANUFACTURER
 - MANUFACTURED DATE
 - TANK CAPACITY
 - EXTERNAL LOAD CAPACITY (SEE DETAIL THIS SHEET)
3. EXPOSED ACCESS OPENINGS 12" O.D. OR LARGER SHALL BE PROVIDED WITH A LOCK SYSTEM, TO PREVENT UNAUTHORIZED ENTRANCE.
4. ANY ACCESS OPENING 8" O.D. AND LARGER SHALL BE CLEARLY MARKED "ENTRANCE TO TANK COULD BE FATAL"
5. ALL INLET/OUTLET FITTINGS TO BE 4" Ø TUF-TITE LOW PRESSURE GRAVITY SEAL (MODEL No. TS-4PRO) CAST INTO TANK WALL.
6. BAFFLES OR TEES SHALL BE PLACED AT THE INFLUENT PIPE. SHALL EXTEND AT LEAST 8 IN. BELOW THE LIQUID LEVEL AND AT LEAST 5 IN. ABOVE THE LIQUID LEVEL. (BY INSTALLER)
7. WHEN USED AS A CONVENTIONAL SEPTIC TANK, PER ASTM 1227-12 THE MIN. DISTANCE BETWEEN THE INLET & OUTLET TO BE A MIN. OF 6 FEET. THE SEPTIC TANK SYSTEM SHALL INCLUDE TWO COMPARTMENTS.

WATERENGINEERS, INC.
 Water & Wastewater Treatment Consultants
 TEXAS BOARD OF PROFESSIONAL ENGINEERS FIRM No. 2066
 17230 HUFFMEISTER ROAD
 TEL: 281-373-0500
 FAX: 281-373-1113
 CYPRESS, TEXAS 77429

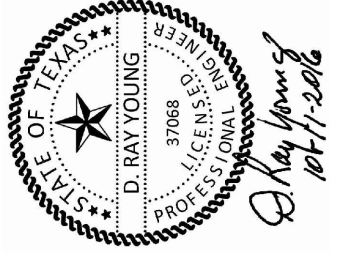
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WASTEWATER TREATMENT STRUCTURE
 GATCO TREATMENT SYSTEMS, LP
 32107 ROCHEN RD
 WALLER, TEXAS 77484
 TELEPHONE: 936-372-5403



SHEET NAME:
**DZ1000 LP
 2COMP TANK**

DRAWN BY: JLW
 CHECKED BY: DRY
 PROJECT No.: 5600.02
 DATE: 10/6/2016
 SHEET No.: **01 OF 01**



TANK DIMENSIONS	
TANK LENGTH (TOP)	111.00 in.
TANK LENGTH (BOTTOM)	108.00 in.
TANK WIDTH (TOP)	69.00 in.
TANK WIDTH (BOTTOM)	66.00 in.
TANK HEIGHT	50.00 in.
WALL THICKNESS	3.00 in.
FLOOR THICKNESS	3.00 in.
LID THICKNESS	5.00 in.
BOTTOM TO INLET	40.50 in.

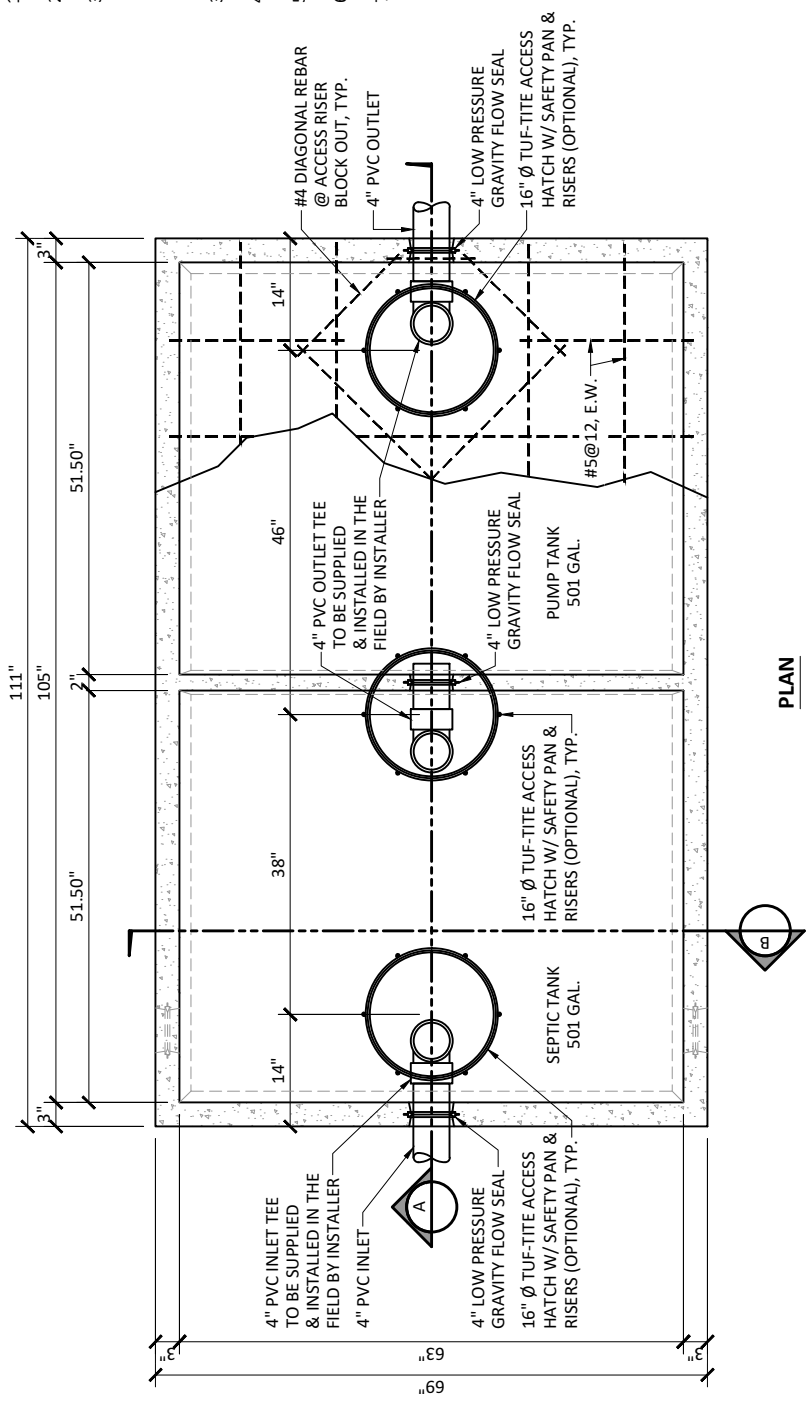
TANK VOLUMES	
SEPTIC TANK CAPACITY	1002 gal.
WATER DEPTH	37.5 in.
TANK CONCRETE VOLUME	44.53 FT ³
TANK LID CONCRETE VOLUME	20.42 FT ³
TANK WEIGHT (EMPTY)	6680 lbs.
LID WEIGHT	3063 lbs.
TOTAL TANK WEIGHT (EMPTY)	9743 lbs.



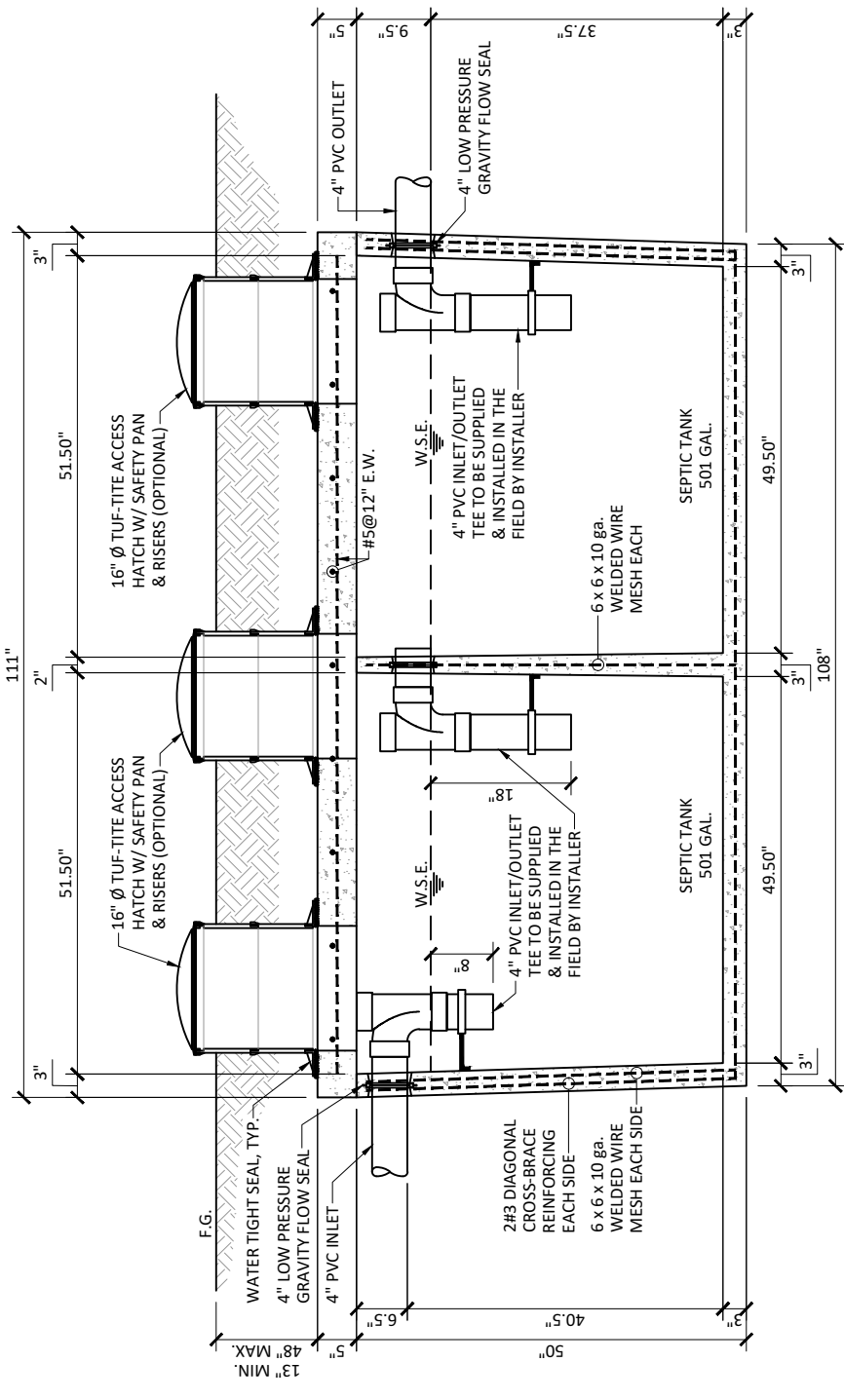
GTS
MODEL NO. DZ1000LP-2COMP
MANF date: XX-XX-XXXX
TANK CAP.: 1002 GAL.
48" MAX. COVER

TANK MARKING DETAIL
 NTS

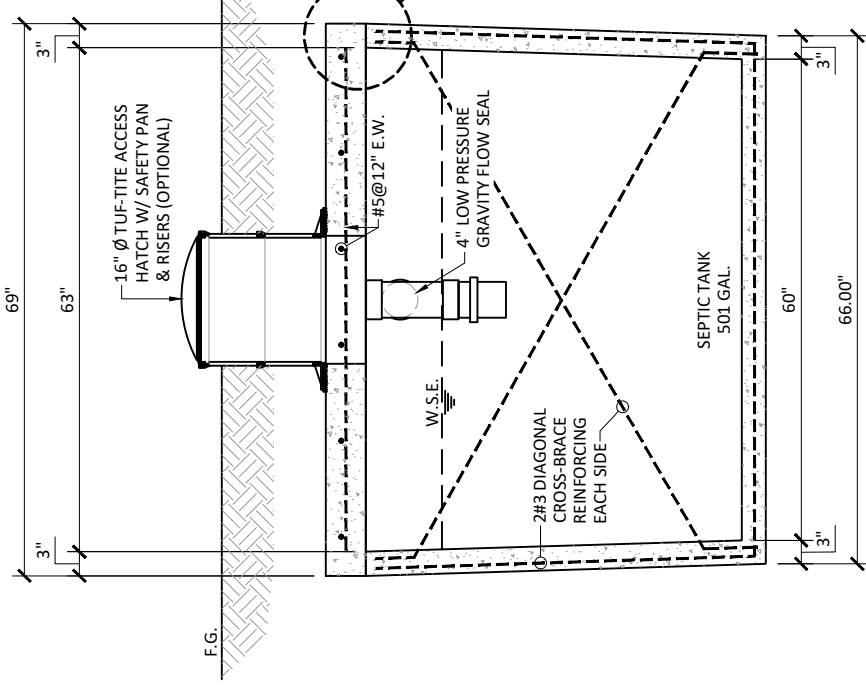
SPRAY PAINT MARKING ON TANK LID WITHIN 2'-0" OF INLET OF THE TANK



PLAN



SECTION A



SECTION B

