



Scanned  
11/8/24

Dwayn Boos  
On-Site Sewage Facilities  
101 W. Main St  
Fredericksburg, TX 78624

**NOTICE OF APPROVAL OF  
On-Site Sewage Facility**

Tommy & Cathy Russell  
1180 Boos Ln.  
Fredericksburg, Tx 78624

**PERMIT #2377**

**Property Location: 1180 Boos Ln. Fredericksburg, Tx**

**GILLESPIE COUNTY, TEXAS**

This serves to notify all persons that the on-site sewage facility owned by the above has satisfied design, construction, and installation requirements of the Texas Commission on Environmental Quality (TCEQ) and Gillespie County. This Gillespie County On-Site Sewage Facility Permit is issued for the operation of the above-identified on-site sewage facility.

**ANY MODIFICATIONS TO THE STRUCTURE, SYSTEM COMPONENTS, OR CHANGES OF OWNERSHIP MAY REQUIRE A NEW PERMIT.** The owner must notify this office of the aforementioned changes.

Addition: 480gpd for:  
Revision } 4 BR < 3500 Sq. Ft. Living Area  
to Existing } 2 BR Guest House < 1500 Sq. Ft. Living Area  
System } Additional Field to accommodate additional  
Sq. Footage & Guest House

Inspector and Gillespie County Designated Representatives:

\_\_\_\_\_  
Dwayn C Boos OS0011257

\_\_\_\_\_  
Sheryl Sutton  
Sheryl Sutton OS0006358

Date: 4/25/24



# GILLESPIE COUNTY

## Permit Application for On-Site Sewage Facility

(Permit application is good for 1 year from purchase date.)

Permit # 2377-Revision Date: 3/6/24 Fee: 150.00

Reason For Permit (Circle one):  New Construction  System Replacement  System Repair

Name of Landowner: Russell (Last Name or Entity), Tommy & Cathy (First Name), RA (MI)

Mailing Address: 1180 Boos LN (House # and Street Name/or PO Box), Fbg TX (City & State), 78624 (Zip Code)

Daytime Phone Number(s): \_\_\_\_\_ Cell Number(s): 830-998-8710

\*\*\*Email Mandatory Tommy @ FREDERICKSBURG. CHURCH

Physical Address/Location of new Septic System: 1180 Boos LN (House # & Street Name), Fbg, TX (City & State), 78624 (Zip Code) \*\*\* GATE CODE: None

Legal Description: Gillespie CAD Property ID #: 60223 Volume 2 Page 4 Instrument# 20195305

Subdivision Name: Oak Wood Forest Lot#: \_\_\_\_\_ Blk \_\_\_\_\_ Phase \_\_\_\_\_ Tract 7  
 Abstract: \_\_\_\_\_ Survey Name and #: \_\_\_\_\_

Total Acreage: 4.85  Private Well  Public Well (Supplier's Name): \_\_\_\_\_

Name & License # of person installing the Septic System: Ben Ball OS# 31139

Email: ben@stkeechadonsite.com Cell #: 850-997-3600

Information on a Single Family Residence:  House  Mobile Home  Manufactured

Total Square Footage of Living Area:  <1500  <2500  <3500  <4500 or  \_\_\_\_\_

# of bedrooms 4, # of bathrooms (Full) 2 (Half) 1. Does it have or will it have water saving devices such as low flush toilets, reduced flow shower heads or faucets, pressure reducing valves and/or faucet aerators:  or  N Water Softener (Demand Initiated Regeneration):  or  N Is the water softener plumbed separate from the OSSF:  Y or  N

Information on a Non-Single Family Residence or Commercial/Institutional Facility (including Multi-Family residences) Describe usage: 2 BR <1500 GUEST HOUSE

I certify that the above statements are true and correct to the best of my knowledge. Authorization is hereby given to Gillespie County OSSF Department to enter upon the above described property for the purpose of soil/site evaluation and investigation of an on-site sewage facility.

[Signature]  
(Signature of Landowner)

2/8/24  
(Date)

Office Use Only:

Daily wastewater usage rate: Q= 480 (gallons/day)

Q: 480 gpd = 4 BR < 3500 @ 300gpd  
2 BR < 1500 @ 180 gpd

Site Evaluation

Planning Materials submitted by:  Installer  P.E.  R.S.

Development Plans required for Subdivisions, Manufactured Housing Communities, Multi-Unit Residential Development, Business Parks, or other similar uses (i.e. B&B Rental, R.V. Park)

Floodplain and/or  Development Permit # 2963-23

For Aerobic Treatment units and non-standard treatment (if applicable):

Affidavit to the Public

Two-year Maintenance Contract

AUTHORIZATION to CONSTRUCT

DR: Sheryl Sutton DATE: 3/11/24

3/11/24  
SAS

Not installed w/ 1st design info. revision submitted again

Certification of Approval

\* See Below

Final Inspection PERMIT # 9331

Date: 4/25/24 Approved by: S. Sutton

Guest House Only 4/25/24

I. Sewer (House Drain)  3" Sch 40  4" Sch 40  Other: \_\_\_\_\_  
 Slope of sewer pipe to tank  minimum of 1/8"/ft.  
 Cleanouts every <100' and within 5' of 90° bends

II. Treatment: Conventional Tanks Aerobic Other: \_\_\_\_\_

TANKS SIZE AND COMPARTMENTS	SERIAL#	RISERS	MANUFACTURER
1. _____	_____	Y/N	_____
2. _____	_____	Y/N	_____
3. _____	_____	Y/N	_____
4. _____	_____	Y/N	_____

III. Disposal Field:  Conventional Gravel  Leaching Chambers (Brand) \_\_\_\_\_  
 Low-Pressure Pipe  Mounds  Gravel-Less Pipe  Pressure Emitters (drip)  
 ET Beds  Other: \_\_\_\_\_

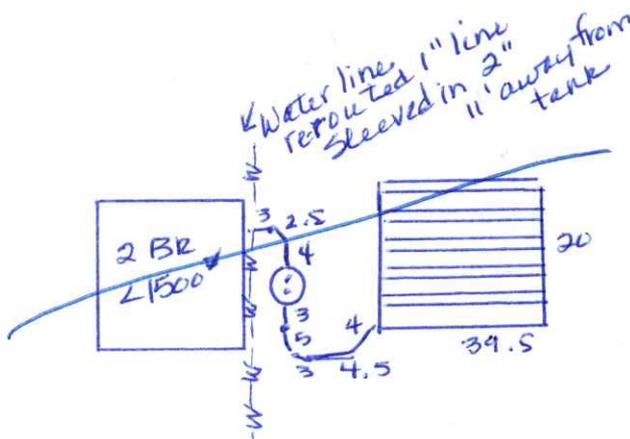
Subsurface Disposal:

LENGTH OF TRENCH	WIDTH	HEIGHT OF MEDIA	CREDIT	SQUARE FEET AREA LENGTH X CREDIT
1. 39.5 ft.	20 ft.	1 ft.	—	790 Sq.ft.
2. _____ ft.	_____ ft.	_____ ft.	_____	_____ Sq.ft.
3. _____ ft.	_____ ft.	_____ ft.	_____	_____ Sq.ft.

IV. Surface Disposal (Application):  
 Loading Rate: \_\_\_\_\_ Area Required in Sq. ft. \_\_\_\_\_  
 Timer installed \_\_\_\_\_ Y/N Area Designed in Sq. ft. \_\_\_\_\_  
 Anti-siphon Hole used \_\_\_\_\_ Y/N  
 Check valve used \_\_\_\_\_ Y/N

V. Map of System: GPS UTM 14 R \_\_\_\_\_ **Not to Scale**

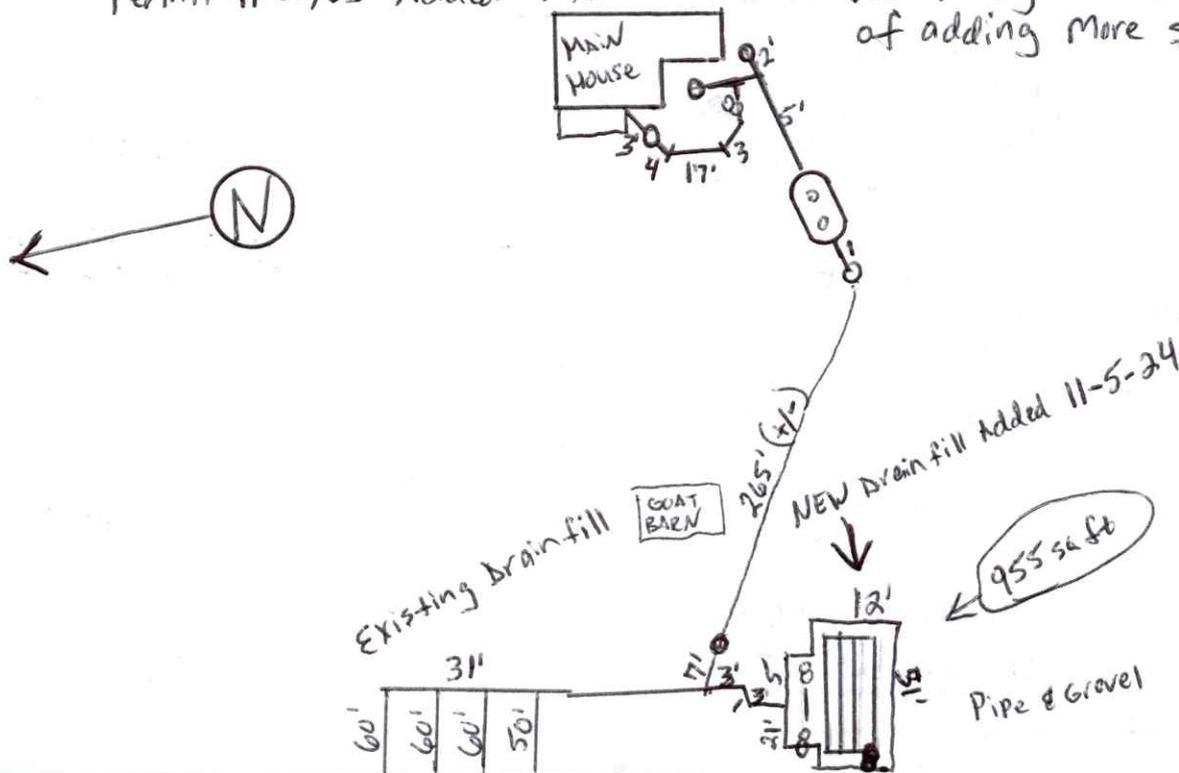
← This is actually #9331



1182 Boos lane #9331

← Guest House in back of property Mix up due to inspection changes.

Permit # 2963 Added lateral lines to the existing MAW House, because of adding more sq. ft.



## Facilities Served by OSSF and Overview

Parcel 60223 in Gillespie County is owned by Tommy and Cathy Russell according to Gillespie County publicly available data. The owner has a main home with an extension that includes a full kitchen. The main home has four bedrooms or less with less than 3500 sf of living space. The extension is two bedrooms or less with less than 1800 sf of living space. The subject OSSF will serve those two facilities only. This is not a new OSSF but an addition of drain field. Based on the site evaluation the Standard Absorptive Drain field addition has been selected. This report includes mayor system components only. This design is based on regulations set forth in Chapter 285 of the Texas Administrative Code Chapter 285 (30 TAC 285). This OSSF, including all of its components, shall be constructed, operated, and maintained in accordance with 30 TAC 285. See Attachment A to view the site evaluation.

Major OSSF Components are listed below:

- 1 – 1250 gallon, 2 compartment septic tank (existing)
- 1 – new drain field with 215 feet of perforated pipe per 30 TAC requirements
- 1 – existing drain field 292 ft

*See Attachment B to view existing permit.*

### Septic Tank

From the proposed residence influent will gravity flow into a 2 compartment, 1250-gallon septic tank that is existing. The slope of influent line shall be no less than 1/8-inch fall per foot of pipe, and its inside diameter shall be a minimum of 3 inches. Effluent will gravity flow from the septic tank to the drain field. Influent lines shall be Schedule 40 PVC. Effluent lines may be Schedule 40 PVC or SDR 35 PVC.

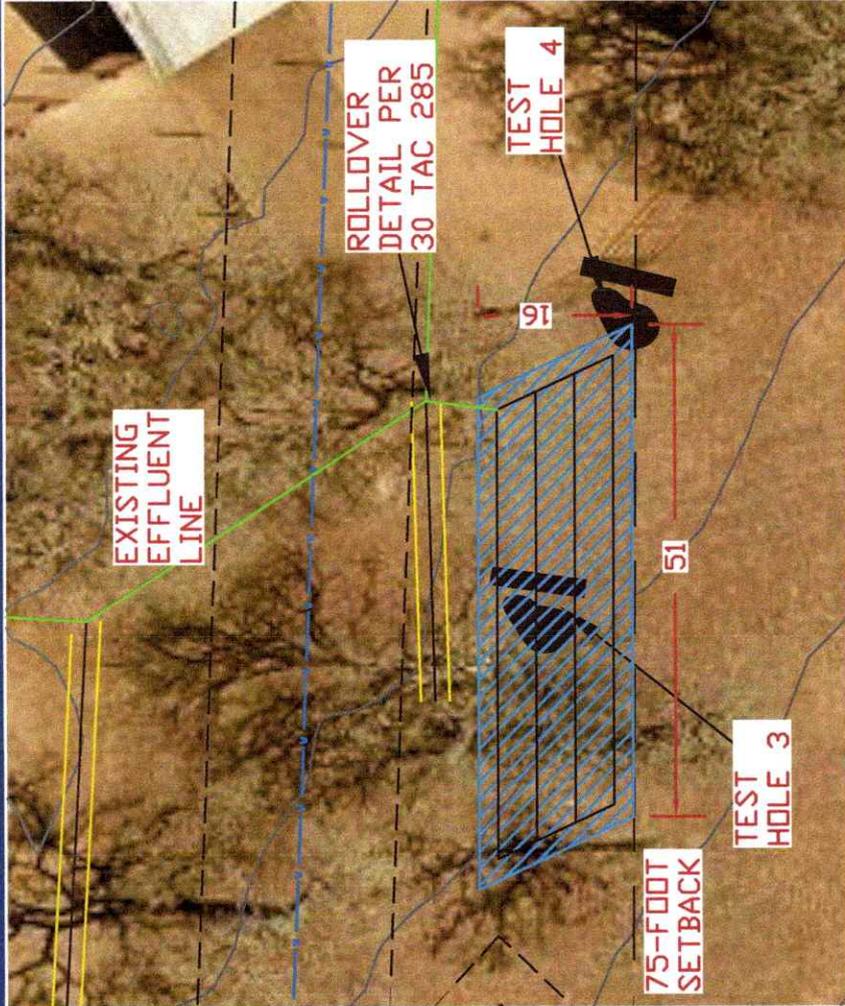
### Standard Absorptive Drain field

The drain field addition shall consist of 215 feet of perforated pipe. There shall be 3 perforated pipes 47 feet long, 4 feet on center, connected on both ends by perforated pipes. The excavation shall be 51 by 16 feet making a single bed. The bed is a parallelogram to minimize surface drop across the drain field addition. This addition will need to be in a different zone than the existing drain field and a rollover detail will be required. The bed will include porous media per 30 TAC 285 requirements. The excavation for the bed shall be between 18 and 36

inches deep and shall be level within tolerances stated in the 30 TAC 285. All parts of the excavation shall be greater than 5 feet from the property line. The exact property line location shall be verified onsite. The existing slope of the absorptive drain field is less than 30%. There are no wells within 100 feet of the drain field according to publicly available Texas Water Development Board data. See Attachment C to view layout.

<b>Calculation Sheet for a Standard Absorptive Drainfield and Septic Tank</b>			
<b>Hydraulic Loading</b>			
Facility Type	Unit Rate (gpd)	Units	Useage (gpd)
2 BR, < 1800 sf	180	1	180
3 BR, < 3500 sf Single Family Dwellings	300	1	300
Total Hydraulic Loading (gpd)			480
<b>Septic Tank</b>			
Required Size	30 TAC 285.91 (2)	351=<Q=<500	1250 gallons
Actual Size	from Public Records		1250 gallons
<b>Absorptive DrainField</b>			
Soil Class			III
Application Rate			0.2 gal/sf/day
Area Required			2400 sf
Actual Absorptive Area			2415 sf
Existing Absorptive Area per bed			1465 sf
<i>Based on Gillespie County Public Records - Permit 2377</i>			
Proposed Absorptive Area per bed = $L*W + 2*(L + W)$			950
Proposed Excavation Length			51 sf
Proposed Excavation Width			16 sf





**NOTES:**

1. THIS DRAWING WAS PRODUCED WITHOUT THE BENEFIT OF A BOUNDARY OR IMPROVEMENT SURVEY. THE PROPERTY LINE IS BASED ON STATE WIDE PARCEL INFORMATION; FOR MORE INFORMATION SEE <https://tnris.org/stratmap/land-parcels/>. CONTRACTOR TO VERIFY BOUNDARY LOCATION AND CONSTRUCT WITHIN ALL APPLICABLE OFFSETS BASED ON FIELD MEASUREMENTS.
2. BACKGROUND IMAGERY IS PROVIDED FOR PERSPECTIVE AND THERE MAYBE DISTORTION. LOCATIONS OF IMPROVEMENTS SHOWN ARE APPROXIMATE.
3. 1 FOOT CONTOURS ARE BASED ON USGS 2019 LIDAR DATA.
4. THIS IS NOT A CONSTRUCTION DRAWING.
5. ALL DIMENSIONS ARE IN FEET UNLESS NOTED OTHERWISE.
6. DIMENSIONS TO PROPERTY LINES ARE GIVEN PERPENDICULAR TO PROPERTY LINES.
7. THIS DRAWING IS PRODUCED FOR THE PURPOSE OF PROVIDING A SITE EVALUATION FOR THE SUBJECT OSSF ONLY.
8. OWNER TO OBTAIN ANY VARIANCES NEEDED TO CONSTRUCT THE SUBJECT OSSF.
9. CONTRACTOR TO VERIFY THAT UTILITIES ARE NOT IN CONFLICT WITH THE PROPOSED DRAIN FIELD AND DRAIN LINES. IF THERE IS CONFLICT, UTILITIES MUST BE REROUTED ACCORDING TO 30 TAC 285 REQUIREMENTS.
10. IMPROVEMENTS SHOWN ARE APPROXIMATE.
11. ANY DRIVES OR PARKING AREAS MUST BE 5 FOOT CLEAR OF EXISTING AND PROPOSED DRAIN FIELDS.



January 19, 2024

Test Hole	Depth (inches)	Class	Description	Groundwater Evidence	Restrictive Horizon
3	0-10	III	BROWN TOPSOIL	NO	NO
	10-19	III	REDISH BROWN BLOCKY		
	19-60	III	WHITE CALICHE		
4	0-28	III	REDISH BROWN	NO	NO
	28-60	III	WHITE CALICHE		

Numbering starts with 3 in order to not become confused with the commercial OSSF design at this site.

LEGEND:

- PROPOSED DRAINFIELD EXCAVATION
- EXISTING DRAINFIELD EXCAVATION
- APPROXIMATE EXISTING WATERLINE
- PROPOSED WATERLINE

PROPERTY LINE (Gillespie County Parcel Data)

OSSF SETBACK LINES

INFLUENT AND EFFLUENT LINES

**FBG**  
ENGINEERING

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OSSF SITE EVALUATION  
MAIN RESIDENCE  
1180 BOOS LANE  
Fredericksburg, TX  
78624  
ATTACHMENT A  
REV. 0