

Comal County Environmental Health

OSSF Inspection Sheet

Installer Name: _____

OSSF Installer #: _____

1st Inspection Date: _____

2nd Inspection Date: _____

3rd Inspection Date: _____

Inspector Name: _____

Inspector Name: _____

Inspector Name: _____

Permit#:

Address:

| No. | Description | Answer | Citations | Notes | 1st Insp. | 2nd Insp. | 3rd Insp. |
|-----|--|--------|---|-------|-----------|-----------|-----------|
| 1 | SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials | | 285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i) | | | | |
| 2 | SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards | | 285.91(10) 285.30(b)(4) 285.31(d) | | | | |
| 3 | SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26) | | 285.32(a)(1) | | | | |
| 4 | SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot | | 285.32(a)(3) | | | | |
| 5 | SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends) | | 285.32(a)(5) | | | | |
| 6 | PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements | | 285.32(b)(1)(G) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(B) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(A) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(ii)(I) | | | | |
| 7 | PRETREATMENT Grease Interceptors if required for commercial | | 285.34(d) | | | | |

Inspector Notes:

**Comal County Environmental Health
OSSF Inspection Sheet**

| No. | Description | Answer | Citations | Notes | 1st Insp. | 2nd Insp. | 3rd Insp. |
|-----|---|--------|---|-------|-----------|-----------|-----------|
| 8 | SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If Single Tank, 2 Compartments Provided with Baffle SEPTIC TANK Inlet Flowline Greater than 3" and " T " Provided on Inlet and Outlet SEPTIC TANK Septic Tank(s) Meet Minimum Requirements | | 285.32(b)(1) (E) 285.91(2) 285.32(b)(1) (F) 285.32(b)(1)(E) (iii) 285.32(b)(1)(E)(ii) (II) 285.32(b)(1)(E)(ii) (I) 285.32(b)(1)(E) (i) 285.32(b)(1) (D) 285.32(b)(1)(C) (ii) 285.32(b)(1)(C) (i) 285.32(b)(1) (B) 285.32(b)(1) (A) 285.32(b)(1)(E)(iv) | | | | |
| 9 | ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used | | 285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b) | | | | |
| 10 | SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped | | 285.38(d) | | | | |
| 11 | SEPTIC TANK Secondary restraint system provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions | | 285.38(d) 285.38(e) | | | | |
| 12 | SEPTIC TANK Tank Volume Installed | | | | | | |
| 13 | PUMP TANK Volume Installed | | | | | | |
| 14 | AEROBIC TREATMENT UNIT Size Installed | | | | | | |
| 15 | AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number | | | | | | |
| 16 | DISPOSAL SYSTEM Absorptive | | 285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3) | | | | |
| 17 | DISPOSAL SYSTEM Leaching Chamber | | 285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2) | | | | |
| 18 | DISPOSAL SYSTEM Drip Irrigation | | 285.33(c)(3)(A)-(F) | | | | |

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|-----|--|--------|---|-------|-----------|-----------|-----------|
| 32 | EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart | | 285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3)(B) 285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F) | | | | |
| 33 | AEROBIC TREATMENT UNIT Is Aerobic Unit Installed According to Approved Guidelines. | | 285.32(c)(1) | | | | |
| 34 | AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions | | | | | | |
| 35 | AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place. | | | | | | |
| 36 | PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump | | | | | | |
| 37 | PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions | | | | | | |
| 38 | PUMP TANK Secondary restraint system provided | | | | | | |
| 39 | PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried | | | | | | |

**Comal County Environmental Health
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|-----|---|--------|--|-------|-----------|-----------|-----------|
| 40 | APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple? | | 285.33(d)(2)(G)(iii)(II) 285.33(d)(2)(G)(iii)(III) 285.33(d)(2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I) | | | | |
| 41 | APPLICATION AREA Low Angle Nozzles Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed | | 285.33(d)(2)(G) (i)285.33(d)(2) (A)285.33(d)(2)(F) | | | | |
| 42 | APPLICATION AREA Area Installed | | | | | | |
| 43 | PUMP TANK Meets Minimum Reserve Capacity Requirements | | | | | | |
| 44 | PUMP TANK Material Type & Manufacturer | | | | | | |
| 45 | PUMP TANK Type/Size of Pump Installed | | | | | | |



COMAL COUNTY

ENGINEER'S OFFICE

Permit of Authorization to Construct an On-Site Sewage Facility Permit Valid For One Year From Date Issued

Permit Number: 117197
Issued This Date: 03/28/2024
This permit is hereby given to: CHRISTOPHER & SERIKA RILEY

To start construction of a private, on-site sewage facility located at:

2214 MERITAGE
NEW BRAUNFELS, TX 78132

Subdivision: VINTAGE OAKS AT THE VINEYARD
Unit: 8
Lot: 1089
Block: 0
Acreage: 1.0300

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic
Drip Irrigation

This permit gives permission for the construction of the above referenced on-site facility to commence. Installation must be completed by an installer holding a valid registration card from the Texas Commission on Environmental Quality (TCEQ). Installation and inspection must comply with current TCEQ and Comal County requirements.

Call (830) 608-2090 to schedule inspections.

Preliminary Field Check For Drip Systems

REVISED

9:10 am, Mar 08, 2024

NEW BRAUNFELS, TX 78132
(830) 608-2090
WWW.CCEO.ORG

Date January 31, 2024

Permit Number 117197

1. APPLICANT / AGENT INFORMATION

| | |
|------------------|----------------------------------|
| Owner Name | CHRISTOPHER RILEY & SERIKA RILEY |
| Mailing Address | 2214 MERITAGE |
| City, State, Zip | NEW BRAUNFELS, TEXAS 78132 |
| Phone # | 210-386-4211 |
| Email | chris.riley@bldr.com |

| | |
|------------------|---------------------------|
| Agent Name | GREG JOHNSON, P.E. |
| Agent Address | 170 HOLLOW OAK |
| City, State, Zip | NEW BRAUNFELS TEXAS 78132 |
| Phone # | 830-905-2778 |
| Email | gregjohnsonpe@yahoo.com |

2. LOCATION

Subdivision Name VINTAGE OAKS AT THE VINEYARD Unit 8 Lot 1089 Block

[illegible]

Address 2214 MERITAGE City NEW BRAUNFELS State TX Zip 78132

3. TYPE OF DEVELOPMENT

☒ **Single Family Residential**

Type of Construction (House, Mobile, RV, Etc.) EXISTING HOUSE

Number of Bedrooms 4

Indicate Sq Ft of Living Area 3206

☐ Non-Single Family Residential

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility _____

Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number Of Occupants**Restaurants, Lounges, Theaters - Indicate Number of Seats**

Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds

Travel Trailer/RV Parks - Indicate Number of Spaces

Miscellaneous _____

Estimated Cost of Construction: \$ EXISTING (Structure Only)

Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?

☐ Yes ☒ No (if yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water ☒ **Public** ☐ **Private Well** ☐ **Rainwater Collection**

4. SIGNATURE OF OWNER

By signing this application, I certify that:

- The completed application and all additional information submitted does not contain any false information and does not conceal any material facts. I certify that I am the property owner or I possess the appropriate land rights necessary to make the permitted improvements on said property.

- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities..

- I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.

- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Signature of Owner

Date _____

#117197

* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * *

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN
ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE**REVISED**

2:31 pm, May 03, 2024

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.System Description PROPRIETARY; AEROBIC TREATMENT AND SURFACE IRRIGATION

Size of Septic System Required Based on Planning Materials & Soil Evaluation

Tank Size(s) (Gallons) EXISTING PRO-FLO 500SLPT
(#114760)Absorption/Application Area (Sq Ft) 3200Gallons Per Day (As Per TCEQ Table III) 300

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? ☒ Yes ☐ No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))

Is there an existing TCEQ approved WPAP for the property? ☒ Yes ☐ No

(if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)

If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? ☐ Yes ☒ No

(If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? ☐ Yes ☒ NoIs there an existing TCEQ approval CZP for the property? ☐ Yes ☒ No

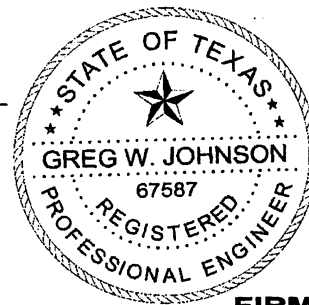
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? ☐ Yes ☒ No

(if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? ☐ Yes ☒ No

If yes, indicate the city: _____

**FIRM #2585**

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable

Signature of Designer [Signature]Date February 7, 2024

AFFIDAVIT**THE COUNTY OF COMAL
STATE OF TEXAS****CERTIFICATION OF OSSF REQUIRING MAINTENANCE**

According to Texas Commission on Environmental Quality Rules for On-Site Sewage Facilities (OSSF's), this document is filed in the Deed Records of Comal County, Texas.

I

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (TCEQ) to regulate on-site sewage facilities (OSSF's). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the commission primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety code, requires owner's to provide notice to the public that certain types of OSSF's are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.

II

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property described as (insert legal description):

8 UNIT/PHASE/SECTION BLOCK 1089 LOT VINTAGE OAKS AT THE VINEYARD SUBDIVISION

IF NOT IN SUBDIVISION: ACREAGE SURVEY

The property is owned by (insert owner's full name): CHRISTOPHER RILEY & SERIKA RILEY

This OSSF must be covered by a continuous maintenance contract for the first two years. After the initial two-year service policy, the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within 30 days or maintain the system personally.

Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Engineer's Office.

WITNESS BY HAND(S) ON THIS 8 DAY OF FEBRUARY, 20 24

Serika Riley
Owner(s) signature(s)

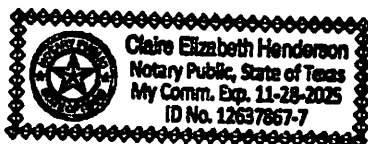
Chris Riley
Serika Riley
Owner (s) Printed name (s)

CHRISTOPHER & SERIKA RILEY

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 8th DAY OF

February, 20 24

Claire Elizabeth Henderson
Notary Public Signature



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
02/12/2024 08:05:09 AM
TERRI 1 Pages(s)
202406004154



Bobbie Koepp

Greg W. Johnson, P.E.
170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778

February 7, 2024

Comal County Office of Environmental Health
195 David Jonas Drive
New Braunfels, Texas 78132-3760

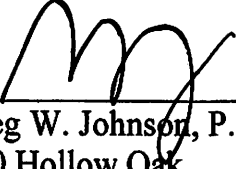
RE- SEPTIC DESIGN
2214 MERITAGE
VINTAGE OAKS AT THE VINEYARD, UNIT 8, LOT 1089
NEW BRAUNFELS, TX 78132
RILEY RESIDENCE

Brandon /Brenda,

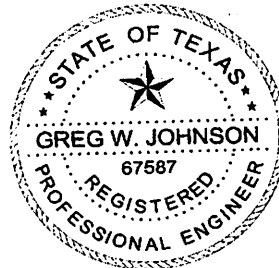
The referenced property is located within the Edwards Aquifer Recharge Zone. This OSSF design will comply with requirements in the WPAP.

Temporary erosion and sedimentation controls should be utilized as necessary prior to construction. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, activities must be suspended immediately and the applicant or his agent must immediately notify the TCEQ Regional Office. After that operations can only proceed after the Executive Director approves required additional engineered impact plans.

Designed in accordance with Chapter 285, Subchapter D, §285.40, 285.41, & 285.42, Texas Commission on Environmental Quality (Effective December 29, 2016).

 02/07/24

Greg W. Johnson, P.E. No. 67587 / F#2585
170 Hollow Oak
New Braunfels, Texas 78132 - 830/905-2778



ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed: February 06, 2024

Site Location: VINTAGE OAKS at the VINEYARD, UNIT 8, LOT 1089

Proposed Excavation Depth: N/A

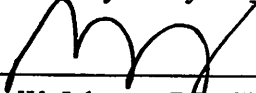
Requirements:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area.
Locations of soil boring or dug pits must be shown on the site drawing.
For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed excavation depth. For surface disposal, the surface horizon must be evaluated.
Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

| SOIL BORING NUMBER <u> </u> SURFACE EVALUATION <u> </u> | | | | | | |
|---|------------------|-----------------|--------------------|---------------------------------------|------------------------|--------------|
| Depth (Feet) | Texture Class | Soil Texture | Gravel Analysis | Drainage (Mottles/ Water Table) | Restrictive Horizon | Observations |
| 0 | IV | CLAY | N/A | NONE OBSERVED | LIMESTONE @ 3" | BROWN |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

| SOIL BORING NUMBER <u> </u> SURFACE EVALUATION <u> </u> | | | | | | |
|---|------------------|-----------------|--------------------|---------------------------------------|------------------------|--------------|
| Depth (Feet) | Texture Class | Soil Texture | Gravel Analysis | Drainage (Mottles/ Water Table) | Restrictive Horizon | Observations |
| 0 | SAME | | AS | | ABOVE | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

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



Greg W. Johnson, P.E. 67587-F2585, S.E. 11561

02/06/24

Date

Date: February 07, 2024

Name: CHRISTOPHER & SERIKA RILEY
Address: 2214 MERITAGE
City: NEW BRAUNFELS **State:** TEXAS
Zip Code: 78132 **Phone:** (210) 386-4211

Name: Greg W. Johnson, P.E., R.S., S.E. 11561
Address: 170 Hollow Oak
City: New Braunfels State: Texas
Zip Code: 78132 Phone & Fax (830)905-2778

Lot 1089 **Unit** 8 **Blk** ____ **Subd.** VINEYARD
Street Address: 2214 MERITAGE
City: NEW BRAUNFELS **Zip Code:** 78132
Additional Info.:

Name: _____
Company: _____
Address: _____
City: _____ State: _____
Zip Code: _____ Phone: _____

Topography: Slope within proposed disposal area: 5 to 8 %

Presence of 100 yr. Flood Zone: YES___ NO X

Existing or proposed water well in nearby area. YES ☐ NO ☒

Presence of adjacent ponds, streams, water impoundments YES ☐ NO ☒

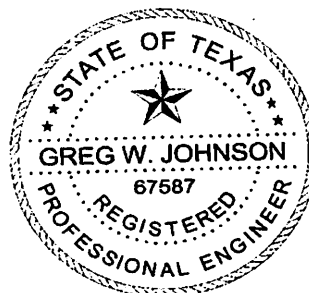
Presence of upper water shed YES ☐ NO ☒

Organized sewage service available to lot YES NO **X**

I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40 (REGARDING RECHARGE FEATURES), TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (EFFECTIVE DECEMBER 29, 2016).

GREG W. JOHNSON, P.E. 67587 - S.E. 11561

DATE _____

**FIRM #2585**

**AEROBIC TREATMENT
DRIP TUBING SYSTEM
DESIGNED FOR:
CHRISTOPHER & SERIKA RILEY
2214 MERITAGE
NEW BRAUNFELS, TX 78132**

SITE DESCRIPTION:

Located in Vintage Oaks at the Vineyard, Unit 8, Lot 1089, being 2214 Meritage, the proposed system will serve a three bedroom residence (2074 sf.) situated in an area with shallow Type IV soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3-inch SCH-40 pipe discharges from the residence into a Pro-Flo 500 SLPT 500gpd aerobic plant containing a 400-gallon pretreatment tank, an aerobic treatment plant, and a 771-gallon pump chamber containing a submersible (Franklin C1 20XC1-05P4-W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 300 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 3200 sf. drip tubing field, with *Netifim Bioline* drip lines set approximately two feet apart with ***0.61 gph*** emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to continuously flush the system to the pump tank by throttling a 1" ball valve. Solids caught in the disc filter are continuously flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 9" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (***NOT SAND***). ***A minimum of 12" soil required between rock and drip tubing.*** The field area will be sodded with grass prior to system startup. **Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2023). This includes access limitation (<65lbs lid or hardware secured lid), inspection and cleanout ports shall have risers over the port openings which extend to a minimum of two inches above grade. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed.**

DESIGN SPECIFICATIONS:

Daily waste flow: 300 GPD Table III

Pretreatment tank size: 400 Gal

Plant Size: ProFlo 500SLPT 600gpd (TCEQ Approved)

Pump tank size: 771 Gal

Reserve capacity after High Level: 100 Gal (1/3 day Req'd)

Application Rate: $R_a = 0.1 \text{ gal/sf}$

Total absorption area: $Q/R_a = 300 \text{ GPD}/0.10 = 3000 \text{ sf}$.

Total linear feet drip tubing: 1600' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 800 emitters @ .61 gph @ 30 psi = 8.13gpm

Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

IN DRIP TUBING W/ NOM. DIA. 0.55" ID

$$\text{MSV} = 2 \text{ FPS } (\pi d^2 / 4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$$

$$\text{MSV} = 2(3.14159((.55/12)^2)/4) * 7.48 * 60$$

$$\text{MSV} = 1.5 \text{ gpm PER LINE} * 5 \text{ LINES} = 7.5 \text{ GPM MIN FLOW RATE}$$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

$$\text{MSV} = 2 \text{ FPS } (\pi d^2 / 4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$$

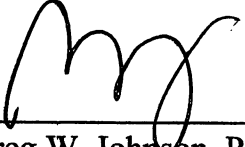
$$\text{MSV} = 2(3.14159((1.049/12)^2)/4) * 7.48 * 60$$

$$\text{MSV} = 5.4 \text{ GPM}$$

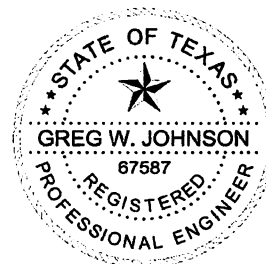
PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging.

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29, 2016)

 05/03/24

Greg W. Johnson, P.E. No. 67587 / F-2585
170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778



From: [Ritzen, Brenda](#)
To: ["Greg Johnson"](#)
Cc: [Chris Riley](#); [Kyle Krohn](#); [Traci Field](#)
Subject: RE: Permit 117197
Date: Thursday, March 28, 2024 10:25:00 AM
Attachments: [image001.png](#)

Greg,

Variance request has been approved.

Thank you,



Brenda Ritzen
Environmental Health Coordinator
195 David Jonas Dr.
New Braunfels, TX 78132
DR:OS00007722
830-608-2090
www.cceo.org

From: Greg Johnson <gregjohnsonpe@yahoo.com>
Sent: Thursday, March 28, 2024 7:12 AM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Cc: Chris Riley <chris.riley@bldr.com>; Kyle Krohn <kyle@psseptics.com>; Traci Field <traci@psseptics.com>
Subject: Re: Permit 117197

This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

Revised to show concrete filled trench to solid rock between existing pool equipment/pool lines & existing aerobic tank to provide equivalent protection.

Additionally, I have included variance requests for separation distances between tank and pool equipment pad and pool lines.

Thanks,
Greg

Send for Greg W. Johnson, P.E., R.S.)

From: [Greg Johnson](#)
To: [Ritzen, Brenda](#)
Cc: [Chris Riley](#); [Kyle Krohn](#); [Traci Field](#)
Subject: Re: Permit 117197
Date: Thursday, March 28, 2024 7:13:45 AM
Attachments: [2214 MERITAGE - RILEY #117197 REV.pdf](#)
[image001.png](#)

This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

Revised to show concrete filled trench to solid rock between existing pool equipment/pool lines & existing aerobic tank to provide equivalent protection.

Additionally, I have included variance requests for separation distances between tank and pool equipment pad and pool lines.

Thanks,

Greg

Send for Greg W. Johnson, P.E., R.S.)

170 Hollow Oak

New Braunfels, TX 78132

Office/Fax (830) 905-2778

Email: gregjohnsonpe@yahoo.com

On Tuesday, March 12, 2024 at 02:08:22 PM CDT, Ritzen, Brenda <rabbjr@co.comal.tx.us> wrote:

Greg,

A preliminary inspection conducted on 3/1/2024 found that there is a concrete wall within 5 ft of the tank and pool lines within 10 ft. of the tank. Revise as needed and resubmit.

Thank you,

REVISED

8:18 am, Mar 28, 2024

Greg W. Johnson, P.E.
170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778

March 27, 2024

Comal County Office of Environmental Health
195 David Jonas Drive
New Braunfels, Texas 78132-3760

RE: Permit #117197
2214 MERITAGE
VINTAGE OAKS AT THE VINEYARD, UNIT 8, LOT 1089
RILEY RESIDENCE

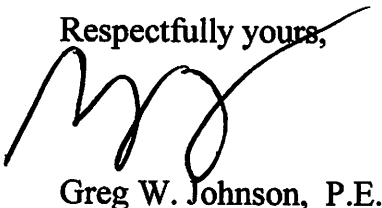
Brenda,

Owners have installed a concrete pool equipment pad within 5' of one side of the aerobic tank. The tank was installed before the pool equipment pad was constructed. Placement of the septic tank will not harm the foundation because the tank was installed first and the concrete pool equipment pad is not a foundation. Additionally, the placement of the concrete pad will not negatively affect the integrity of the tank. In my professional opinion the installation of the concrete pad closer than the five foot setback requirement will not pose a threat to the public health or environment. Additionally, the pool lines from the pool equipment pad are less than ten feet from the aerobic tank. I proposed to excavate a fifteen foot long rocksaw trench to solid rock, (~approximately 16" deep) centered between the tank and pool equipment/pool lines and fill with concrete to provide equivalent protection between tank and pool lines.

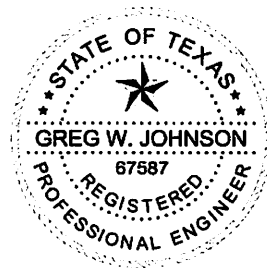
I hereby respectfully request a variance to five foot setback from tank to the concrete pool equipment pad and ten foot setback between pool lines and aerobic tank.

If I can be of further assistance please contact me.

Respectfully yours,



Greg W. Johnson, P.E.



INSTALL 3200 sf OF
FIELD USING 1600'
OF DRIP TUBING.
THERE SHALL BE NO
PARKING, DRIVING
OR STORAGE ON
THE SEPTIC FIELD
AT ANY TIME FOR
ANY REASON.

*USE TWO WAY
CLEAN OUT

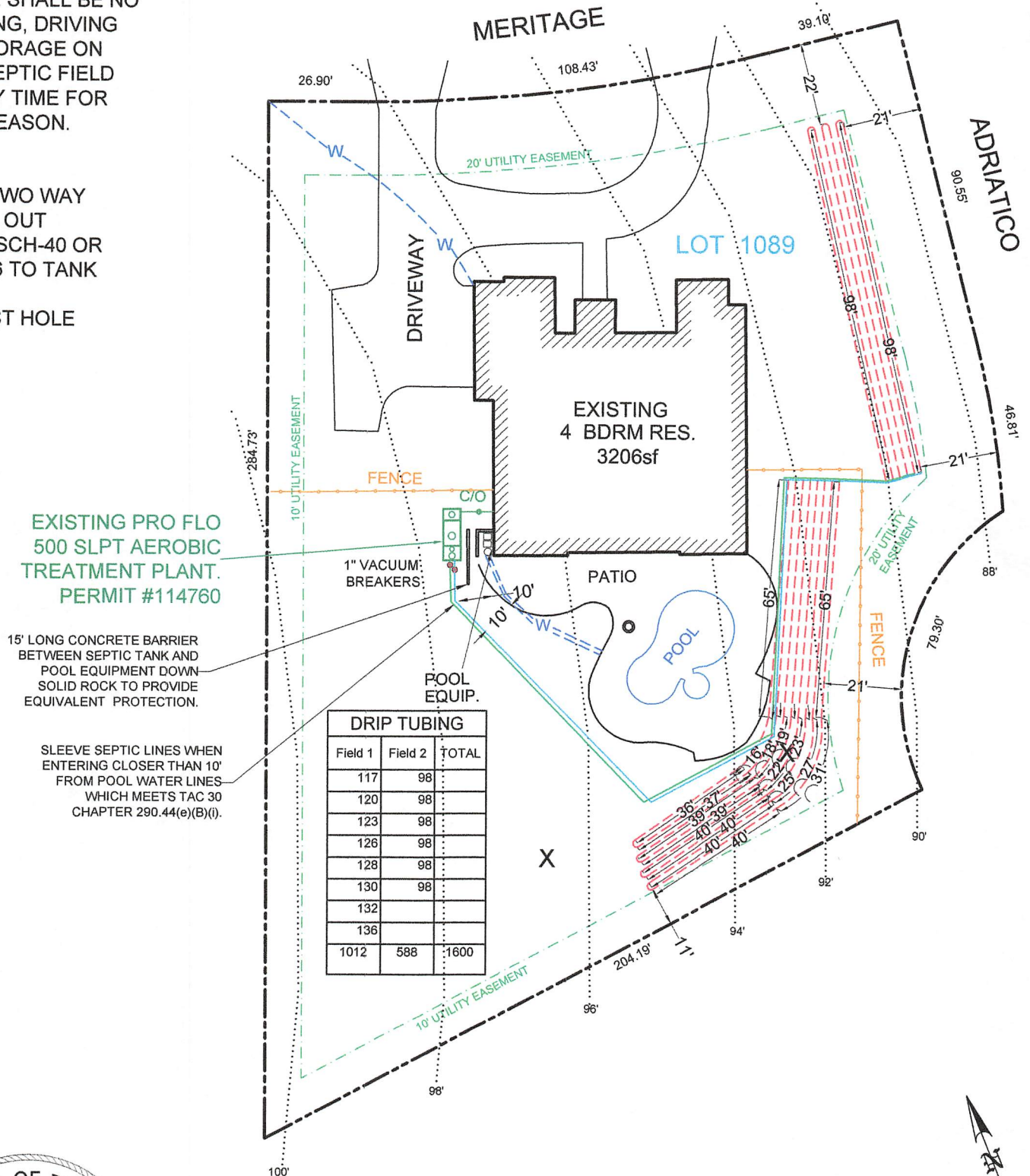
**USE SCH-40 OR
SDR-26 TO TANK

X= TEST HOLE

REVISED

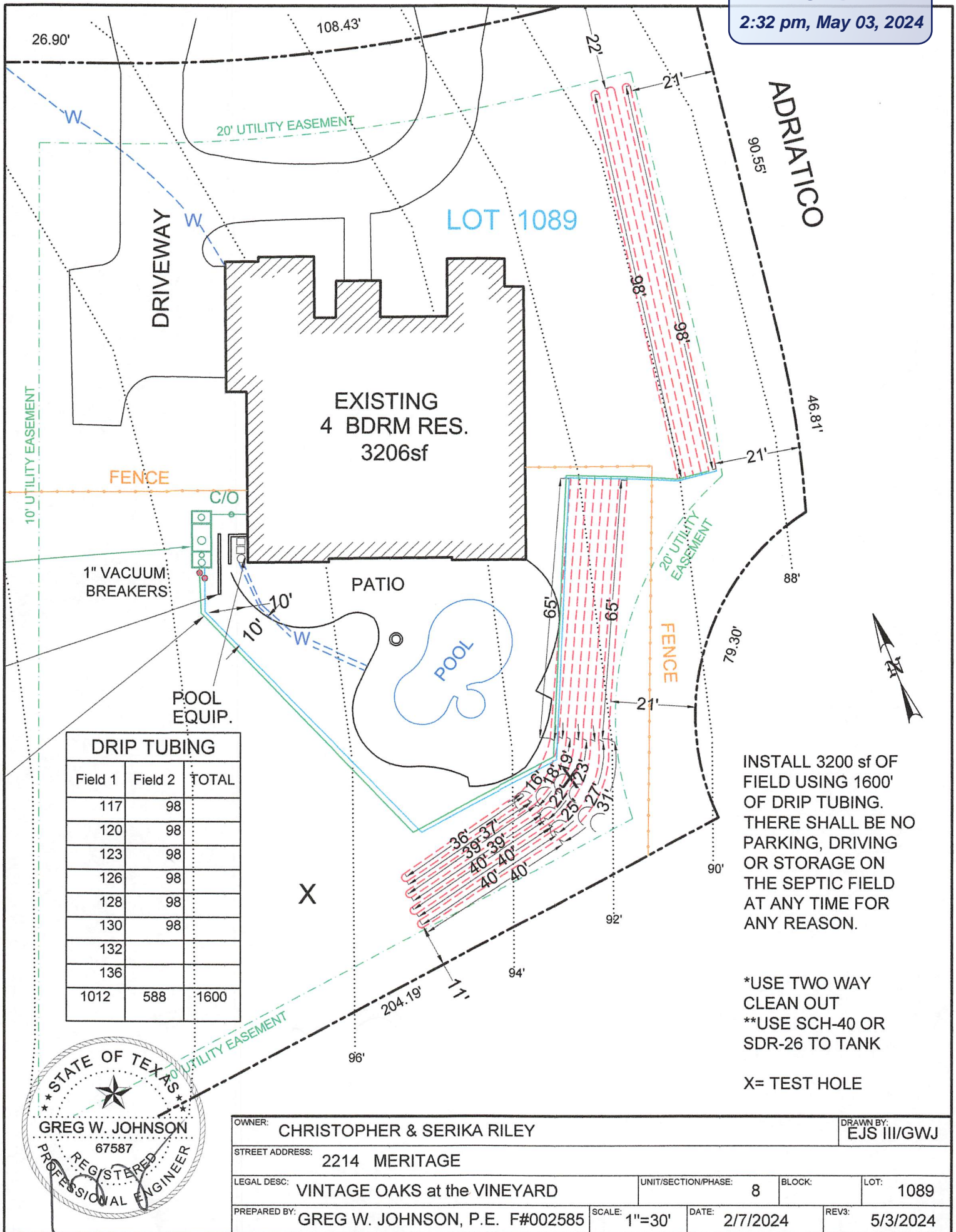
2:32 pm, May 03, 2024

#117197



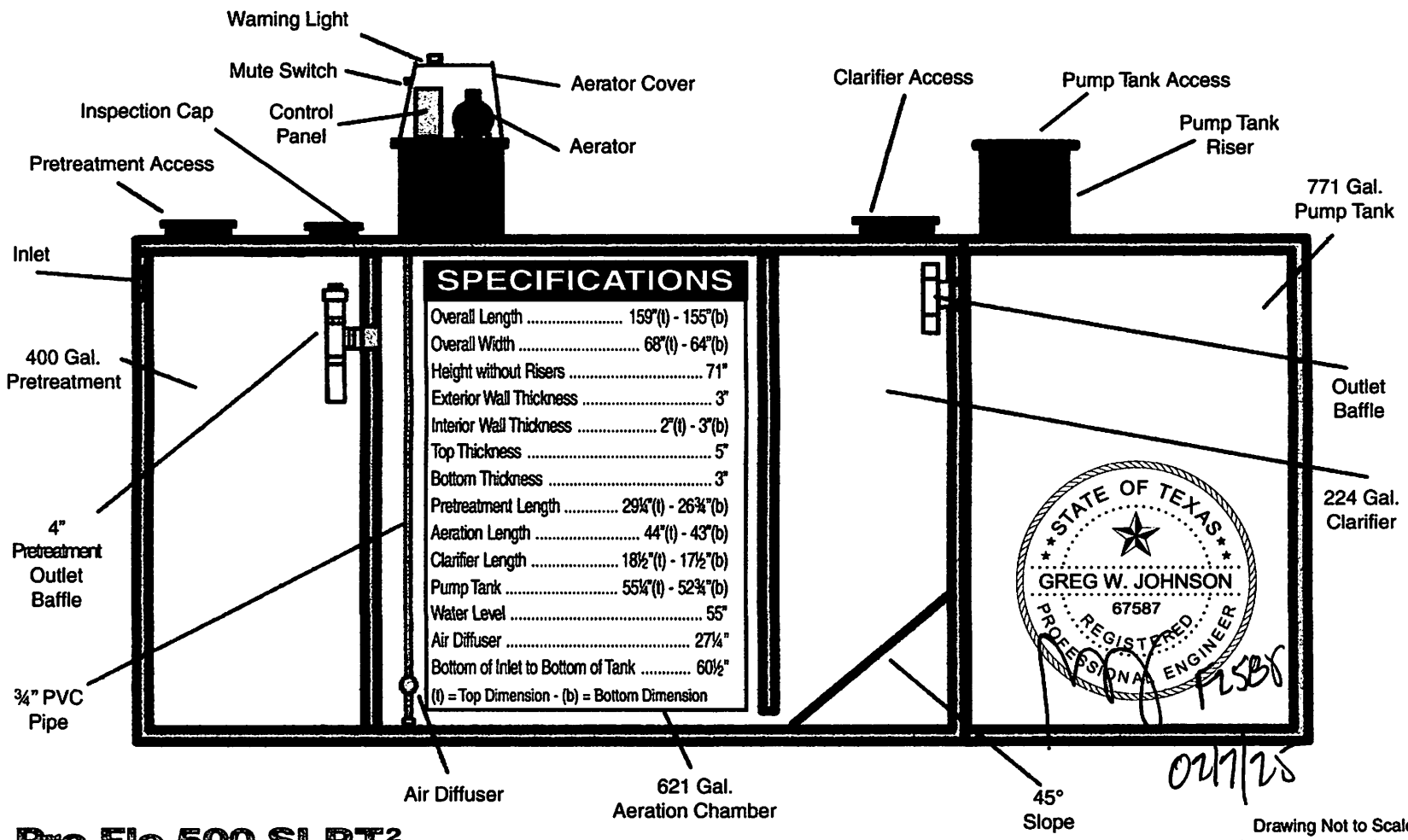
| | | | |
|---|---------------|-----------------------|----------------|
| OWNER: CHRISTOPHER & SERIKA RILEY | | DRAWN BY: EJS III/GWJ | |
| STREET ADDRESS: 2214 MERITAGE | | | |
| LEGAL DESC: VINTAGE OAKS at the VINEYARD | | UNIT/SECTION/PHASE: 8 | LOT: 1089 |
| PREPARED BY: GREG W. JOHNSON, P.E. F#002585 | SCALE: 1"=40' | DATE: 2/7/2024 | REV3: 5/3/2024 |

2:32 pm, May 03, 2024



Pro Flo 500 SLPT² System Diagram

Configurations may vary.



Pro Flo 500 SLPT²

Drawing Not to Scale
All Gallonage Approximate

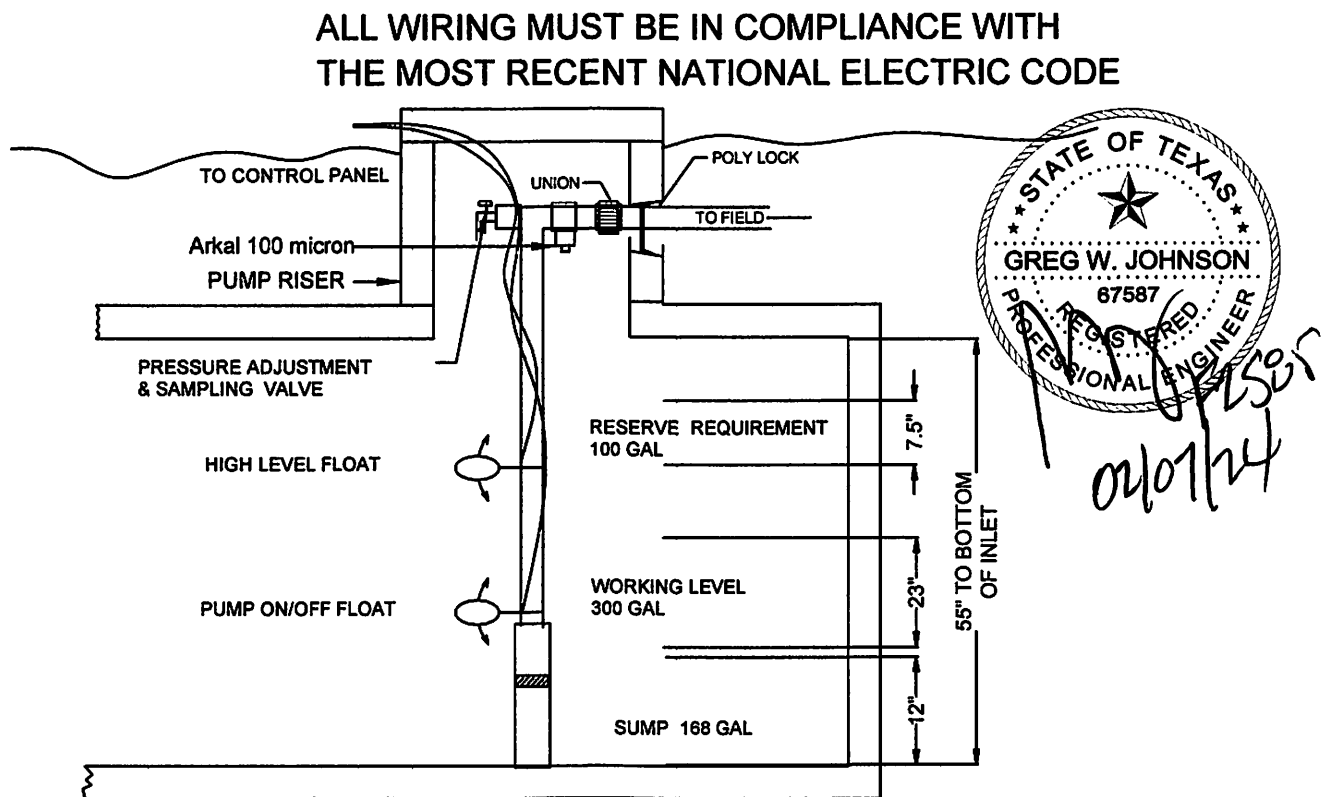
TANK NOTES:

Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

Tightlines to the tank shall be SCH-40 PVC.

A two way sanitary tee is required between residence and tank.

A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks



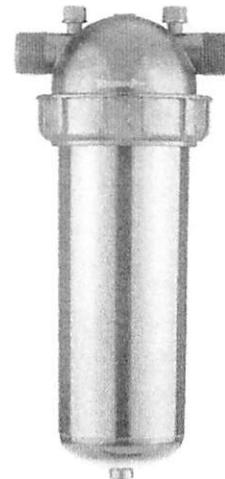
TYPICAL PUMP TANK CONFIGURATION
PRO-FLO 771 GAL PUMP TANK

Arkal 1" Super Filter

Catalog No. 1102 0 _ _ _

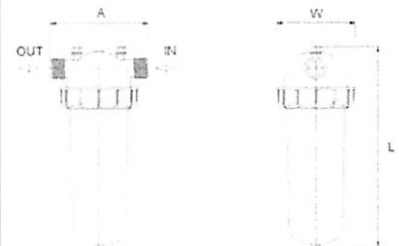
Features

- ♦ A "T" shaped filter with two 1" male threads.
- ♦ A "T" volume filter for in-line installation on 1" pipelines.
- ♦ The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- ♦ Manufactured entirely from fiber reinforced plastic.
- ♦ A cylindrical column of grooved discs constitutes the filter element.
- ♦ Spring keeps the discs compressed.
- ♦ Screw-on filter cover.
- ♦ Filter discs are available in various filtration grades.



Technical Data

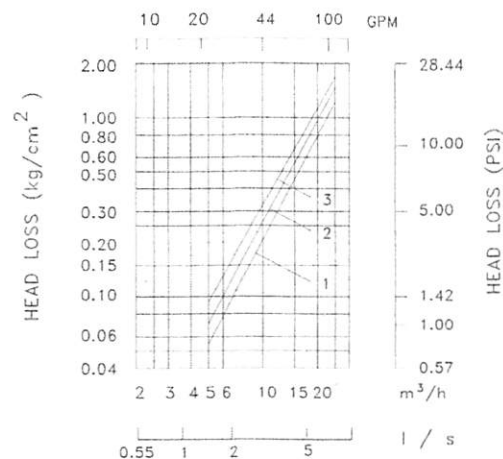
| Inlet/outlet diameter | 1" BSPT (male) | 1" NPT (male) |
|------------------------------------|---------------------------------|----------------------|
| | 25.0 mm – nominal diameter | |
| | 33.6 mm – pipe diameter (O. D.) | |
| Maximum pressure | 10 atm | 145 psi |
| Maximum flow rate | 8 m ³ /h (1.7 l/sec) | 35 gpm |
| General filtration area | 500 cm ² | 77.5 in ² |
| Filtration volume | 600 cm ³ | 37 in ³ |
| Filter length L | 340 mm | 13 13/32" |
| Filter width W | 130 mm | 5 3/32" |
| Distance between end connections A | 158 mm | 6 7/32" |
| Weight | 1.420 kg | 3.13 lbs. |
| Maximum temperature | 70° C | 158 °F |
| pH | 5-11 | 5-11 |



Filtration Grades

- Blue (400 micron / 40 mesh)
- Yellow (200 micron / 80 mesh)
- Red (130 micron / 120 mesh)
- Black (100 micron / 140 mesh)
- Green (55 micron)

Head Loss Chart





PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Specifications

The pressure regulator shall be capable of operating at a constant, factory preset, non-adjustable outlet pressure of 6, 10, 12, 15, 20, 25, 30, 35, 40, 50, or 60 PSI (0.41, 0.69, 0.83, 1.03, 1.38, 1.72, 2.07, 2.41, 2.76, 3.45, or 4.14 bar) with a flow range between:

- 4 - 16 GPM (909 - 3634 L/hr) for 6 - 10 PSI models or
- 2 - 20 GPM (454 - 4542 L/hr) for 12 - 60 PSI models.

The pressure regulator shall maintain the nominal pressure at a minimum of 5 PSI (0.34 bar) above model inlet pressure and a maximum of 80 PSI (5.52 bar) above nominal model pressure*. Refer to the PRU performance curve to establish specific outlet pressures based on relative inlet pressure and flow rate. Always install downstream from all shut off valves. Recommended for outdoor use only. Not NSF certified.

All pressure regulator models shall be equipped with one of these inlet-x-outlet configurations:

Inlet

- ¾-inch Female National Pipe Thread (FNPT)
- 1-inch Female National Pipe Thread (FNPT)
- 1-inch Female British Standard Pipe Thread (FBSPT)

Outlet

- ¾-inch Female National Pipe Thread (FNPT)
- 1-inch Female National Pipe Thread (FNPT)
- 1-inch Female British Standard Pipe Thread (FBSPT)

The upper housing, lower housing, and internal molded parts shall be of engineering-grade thermoplastics with internal elastomeric seals and a reinforced elastomeric diaphragm. Regulation shall be accomplished by a fixed stainless steel compression spring, which shall be enclosed in a chamber isolated from the normal water passage.

Outlet pressure and flow shall be clearly marked on each regulator.

The pressure regulator shall carry a two-year manufacturer's warranty on materials, workmanship, and performance. Each pressure regulator shall be water tested for accuracy before departing the manufacturing facility.

The pressure regulator shall be manufactured by Senninger Irrigation in Clermont, Florida. Senninger is a Hunter Industries Company.

Physical

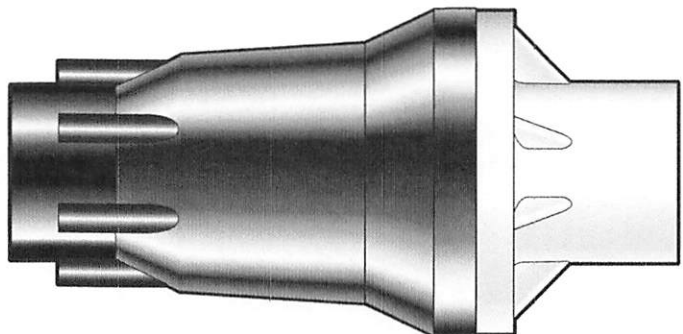
¾" FNPT x ¾" FNPT model (shown on right)

- Overall Length 5.2 inches (13.1 cm)
- Overall Width 2.5 inches (6.4 cm)

1" FNPT x 1" FNPT model

1" FBSPT x 1" FBSPT model

- Overall Length 5.8 inches (14.6 cm)
- Overall Width 2.5 inches (6.4 cm)



* Please consult factory for applications outside of recommended guidelines.



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

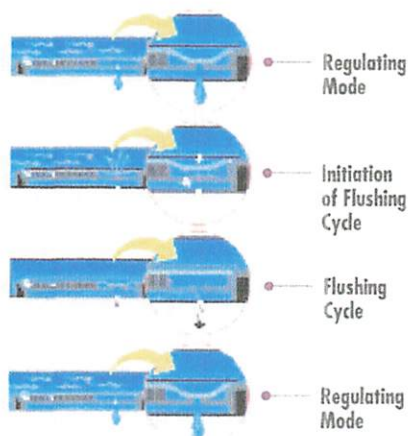
Model Numbers

| Model # | Flow Range | Preset Operating Pressure | Maximum Inlet Pressure |
|-----------|---------------------------------|---------------------------|------------------------|
| PMR-6 MF | 4 - 16 GPM (909 - 3634 L/hr) | 6 PSI (0.41 bar) | 80 psi (5.51 bar) |
| PMR-10 MF | 4 - 16 GPM (909 - 3634 L/hr) | 10 PSI (0.69 bar) | 90 psi (6.20 bar) |
| PMR-12 MF | 2 - 20 GPM (454 - 4542 L/hr) | 12 PSI (0.83 bar) | 90 psi (6.20 bar) |
| PMR-15 MF | 2 - 20 GPM (454 - 4542 L/hr) | 15 PSI (1.03 bar) | 95 psi (6.55 bar) |
| PMR-20 MF | 2 - 20 GPM (454 - 4542 L/hr) | 20 PSI (1.38 bar) | 100 psi (6.89 bar) |
| PMR-25 MF | 2 - 20 GPM (454 - 4542 L/hr) | 25 PSI (1.72 bar) | 105 psi (7.24 bar) |
| PMR-30 MF | 2 - 20 GPM (454 - 4542 L/hr) | 30 PSI (2.07 bar) | 110 psi (7.58 bar) |
| PMR-35 MF | 2 - 20 GPM (454 - 4542 L/hr) | 35 PSI (2.41 bar) | 115 psi (7.93 bar) |
| PMR-40 MF | 2 - 20 GPM (454 - 4542 L/hr) | 40 PSI (2.76 bar) | 120 psi (8.27 bar) |
| PMR-50 MF | 2 - 20 GPM (454 - 4542 L/hr) | 50 PSI (3.45 bar) | 130 psi (8.96 bar) |
| PMR-60 MF | 2 - 20 GPM (454 - 4542 L/hr) | 60 PSI (4.14 bar) | 140 psi (9.65 bar) |

NETAFIM™

Bioline® Dripperline

Pressure Compensating Dripperline for Wastewater



BioLine's Self-Cleaning, Pressure Compensating Dripper is a fully self-contained unit molded to the interior wall of the dripper tubing.

As shown at left, BioLine is continuously self-cleaning during operation, not just at the beginning and end of a cycle. The result is dependable, clog free operation, year after year.



Product Advantages

The Proven Performer

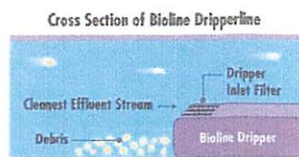
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for many years of hard use in wastewater applications.

Quality Manufacturing with Specifications Designed to Meet Your Needs

- Pressure compensating drippers assure the highest application uniformity - even on sloped or rolling terrain.
- Excellent uniformity with runs of 400 feet or more - reducing installation costs.
- Highest quality-control standards in the industry: Cv of 0.25 (coefficient of manufacturer's variation).
- A selection of flows and spacings to satisfy the designer's demand for almost any application rate.

Long-Term Reliability

- Protection against plugging:
 - Dripper inlet raised 0.27" above wall of tubing to prevent sediment from entering dripper.
 - Drippers impregnated with Vinyzene to prevent buildup of microbial slime.
 - Unique self-flushing mechanism passes small particles before they can build up.



Root Safe

- A physical barrier on each BioLine dripper helps prevent root intrusion.
- Protection never wears out - never depletes - releases nothing to the environment.
- Working reliably for up to 15 years in subsurface wastewater installations.
- Additional security of chemical root inhibition with Techfilter - supplies Trifluralin to the entire system, effectively inhibiting root growth to the dripper outlets.



Applications

- For domestic strength wastewater disposal.
- Installed following a treatment process.
- Can be successfully used on straight septic effluent with proper design, filtration and operation.
- Suitable for reuse applications using municipally treated effluent designated for irrigation water.

Specifications

Wall thickness (mil): 45*

Nominal flow rates (GPH): .4, .6, .9*

Common spacings: 12", 18", 24"*

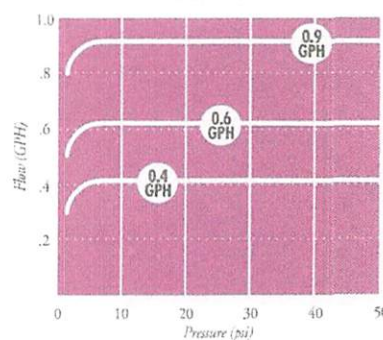
Recommended filtration: 120 mesh

Inside diameter: .570*

Color: Purple tubing indicates non-potable source

*Additional flows, spacings, and pipe sizes available by request. Please contact Netafim USA Customer Service for details.

BIOLINE Flow Rate vs. Pressure



NETAFIM USA
 5470 E. Home Ave. • Fresno, CA 93727
 888.638.2346 • 559.453.6800
 FAX 800.695.4753
www.netafimusa.com

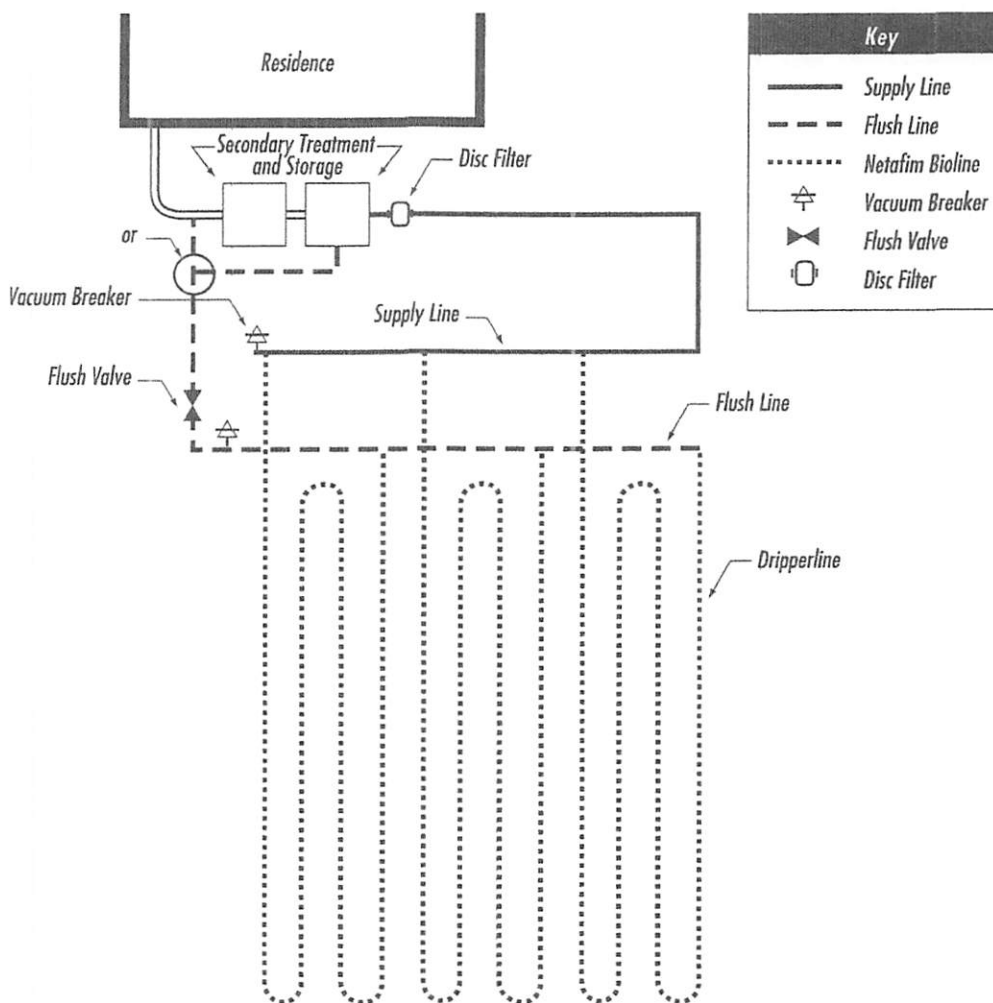
NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

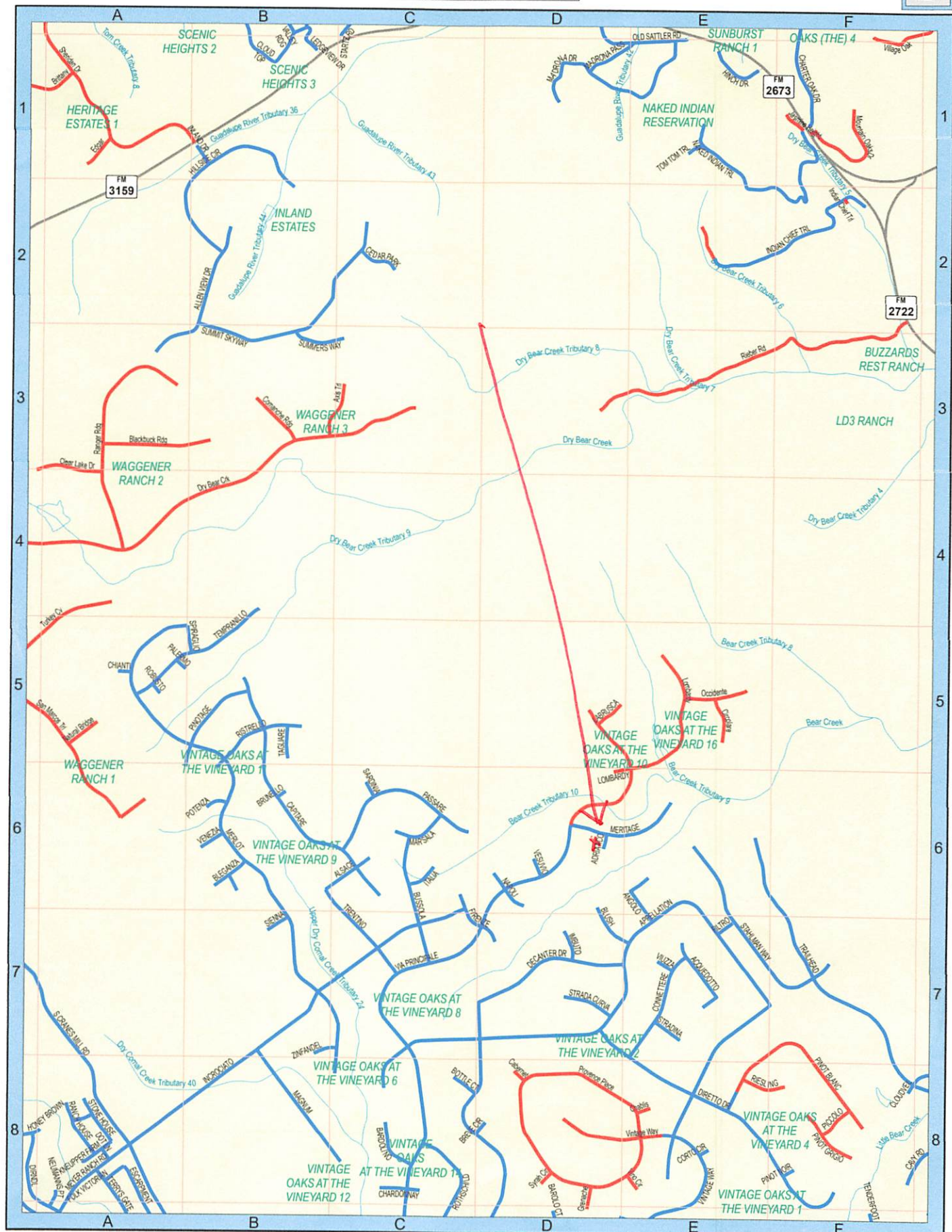
SAMPLE DESIGNS

SINGLE TRENCH LAYOUT

Rectangular field with supply and flush manifold on same side and in same trench;

- Locate supply and flush manifold in same trench
- Dripperlines are looped at the end opposite the supply and flush manifolds
- The longest Bioline length should not exceed 400 ft. Drip fields 200 ft. in length might loop the Bioline once; drip dispersal fields under 100 ft. might be looped twice, as illustrated





SEE PAGE 43



From: [Ritzen, Brenda](#)
To: [Greg Johnson](#)
Cc: [Traci Field](#); [Roy Ackey](#)
Subject: RE: 2214 MERITAGE - RILEY #117197
Date: Friday, May 3, 2024 2:37:00 PM
Attachments: [image001.png](#)

Greg,

The permit file has been updated.

Thank you,



Brenda Ritzen
Environmental Health Coordinator
195 David Jonas Dr.
New Braunfels, TX 78132
DR:OS00007722
830-608-2090
www.cceo.org

From: Greg Johnson <gregjohnsonpe@yahoo.com>
Sent: Friday, May 3, 2024 11:36 AM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Cc: Traci Field <traci@psseptics.com>; Roy Ackey <roya@gvtc.com>
Subject: 2214 MERITAGE - RILEY #117197

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Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

REVISED.
THX,
GREG

Send for Greg W. Johnson, P.E., R.S.)
170 Hollow Oak
New Braunfels, TX 78132

* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * *

VOID

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN
ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.System Description PROPRIETARY; AEROBIC TREATMENT AND SURFACE IRRIGATION

Size of Septic System Required Based on Planning Materials & Soil Evaluation

EXISTING PRO-FLO 500SLPT
Tank Size(s) (Gallons) (#114760) Absorption/Application Area (Sq Ft) 3000

Gallons Per Day (As Per TCEQ Table III) 300

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? ☒ Yes ☐ No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))

Is there an existing TCEQ approved WPAP for the property? ☒ Yes ☐ No

(If yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)

If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? ☐ Yes ☒ No

(If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? ☒ NoIs there an existing TCEQ approval CZP for the property? ☐ Yes ☒ No

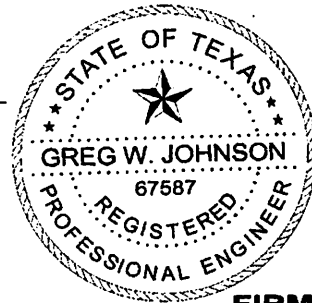
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? ☐ Yes ☒ No

(if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? ☐ Yes ☒ No

If yes, indicate the city: _____



By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable

Signature of Designer

Date February 7, 2024

VOID

**AEROBIC TREATMENT
DRIP TUBING SYSTEM
DESIGNED FOR:
CHRISTOPHER & SERIKA RILEY
2214 MERITAGE
NEW BRAUNFELS, TX 78132**

SITE DESCRIPTION:

Located in Vintage Oaks at the Vineyard, Unit 8, Lot 1089, being 2214 Meritage, the proposed system will serve a three bedroom residence (2074 sf.) situated in an area with shallow Type IV soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

PROPOSED SYSTEM:

A 3-inch SCH-40 pipe discharges from the residence into a Pro-Flo 500 SLPT 500gpd aerobic plant containing a 400-gallon pretreatment tank, an aerobic treatment plant, and a 771-gallon pump chamber containing a submersible (Franklin C1 20XC1-05P4-W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with 300 gallons. A high level audible and visual alarm will activate should the pump tank Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 3000 sf. drip tubing field, with *Netifim Bioline* drip lines set approximately two feet apart with *0.61 gph* emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to continuously flush the system to the pump tank by throttling a 1" ball valve. Solids caught in the disc filter are continuously flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 9" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (*NOT SAND*). *A minimum of 12" soil required between rock and drip tubing.* The field area will be sodded with grass prior to system startup. **Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2023). This includes access limitation (<65lbs lid or hardware secured lid), inspection and cleanout ports shall have risers over the port openings which extend to a minimum of two inches above grade. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed.**

VOID

DESIGN SPECIFICATIONS:

Daily waste flow: 300 GPD Table III

Pretreatment tank size: 400 Gal

Plant Size: ProFlo 500SLPT 600gpd (TCEQ Approved)

Pump tank size: 771 Gal

Reserve capacity after High Level: 100 Gal (1/3 day Req'd)

Application Rate: $R_a = 0.1 \text{ gal/sf}$

Total absorption area: $Q/R_a = 300 \text{ GPD}/0.10 = 3000 \text{ sf}$.

Total linear feet drip tubing: 1500' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 750 emitters @ .61 gph @ 30 psi = 7.625gpm

Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

IN DRIP TUBING W/ NOM. DIA. 0.55" ID

$MSV = 2 \text{ FPS } (\Pi d^2/4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$

$MSV = 2(3.14159((.55/12)^2)/4) * 7.48 * 60$

$MSV = 1.5 \text{ gpm PER LINE} * 3 \text{ LINES} = 4.5 \text{ GPM MIN FLOW RATE}$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

$MSV = 2 \text{ FPS } (\Pi d^2/4) * 7.48 \text{ gal/cf} * 60 \text{ sec/min}$

$MSV = 2(3.14159((1.049/12)^2)/4) * 7.48 * 60$

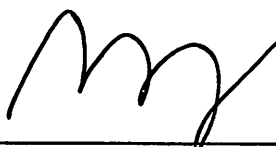
$MSV = 5.4 \text{ GPM}$

VOID

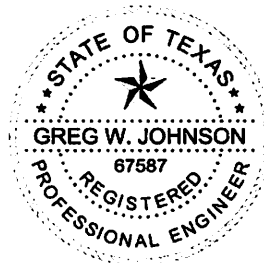
PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging.

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29, 2016)

 02/07/14

Greg W. Johnson, P.E. No. 67587 / F-2585
170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778



REVISED

8:18 am, Mar 28, 2024

VOID

NOTE:
EXISTING SEPTIC
SYSTEM TO BE
ABANDONED

INSTALL 3000sf OF
FIELD USING 1500'
OF DRIP TUBING.
THERE SHALL BE NO
PARKING, DRIVING
OR STORAGE ON
THE SEPTIC FIELD
AT ANY TIME FOR
ANY REASON.

*USE TWO WAY
CLEAN OUT
**USE SCH-40 OR
SDR-26 TO TANK

X= TEST HOLE

EXISTING PRO FLO
500 SLPT AEROBIC
TREATMENT PLANT.
PERMIT #114760

15' LONG CONCRETE BARRIER
BETWEEN SEPTIC TANK AND
POOL EQUIPMENT DOWN
SOLID ROCK TO PROVIDE
EQUIVALENT PROTECTION.

SLEEVE SEPTIC LINES WHEN
ENTERING CLOSER THAN 10'
FROM POOL WATER LINES
WHICH MEETS TAC 30
CHAPTER 290.44(e)(B)(i).

VOID

1" VACUUM
BREAKERS

MERITAGE

LOT 1089

ADRIATICO

EXISTING
4 BDRM RES.
3206sf

PATIO

POOL

POOL
EQUIP

1" VACUUM
BREAKERS



OWNER: CHRISTOPHER & SERIKA RILEY

DRAWN BY: EJS III

STREET ADDRESS: 2214 MERITAGE

LEGAL DESC: VINTAGE OAKS at the VINEYARD

UNIT/SECTION/PHASE: 8

BLOCK:

LOT: 1089

PREPARED BY: GREG W. JOHNSON, P.E. F#002585

SCALE: 1"=40'

DATE: 2/7/2024

REVISED: 3/26/2024

**CCEO
COPY**



COMAL COUNTY
ENGINEER'S OFFICE

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: **10/17/2022** Permit Number: **114760**

Location Description: **2214 MERITAGE
NEW BRAUNFELS, TX 78132**

Subdivision: **VINTAGE OAKS AT THE VINEYARD**
Unit: **8**
Lot: **1089**
Block: **0**
Acreage: **0.0000**

Type of System: **Aerobic
Surface Irrigation**

Issued to: **POGUE & COMPANY, dba JLP Builders, Inc**

This license is authorization for the owner to operate and maintain a private facility at the location described in accordance to the rules and regulations for on-site sewerage facilities of Comal County, Texas, and the Texas Commission on Environmental Quality.

The license grants permission to operate the facility. It does not guarantee successful operation. It is the responsibility of the owner to maintain and operate the facility in a satisfactory manner.

Alterations to this permit including, but not limited to:

- Increase in the square feet of living area
- Increase in the number of bedrooms
- A change of use (i.e. residential to commercial)
- Relocation of system components (including the relocation of spray heads)
- Installation of landscaping
- Adding new structures to the system

may require a new permit. **It is the responsibility of the owner to apply for a new permit, if applicable.**

Inspection and licensing of a facility indicates only that the facility meets certain minimum requirements. It does not impede any governmental entity in taking the proper steps to prevent or control pollution, to abate nuisance, or to protect the public health.

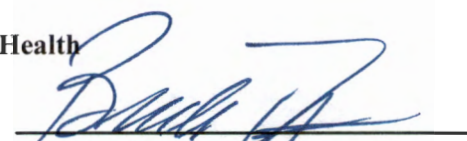
This license to operate is valid for an indefinite period. The holder may transfer it to a succeeding owner, provided the facility has not been remodeled and is functioning properly.

Licensing Authority

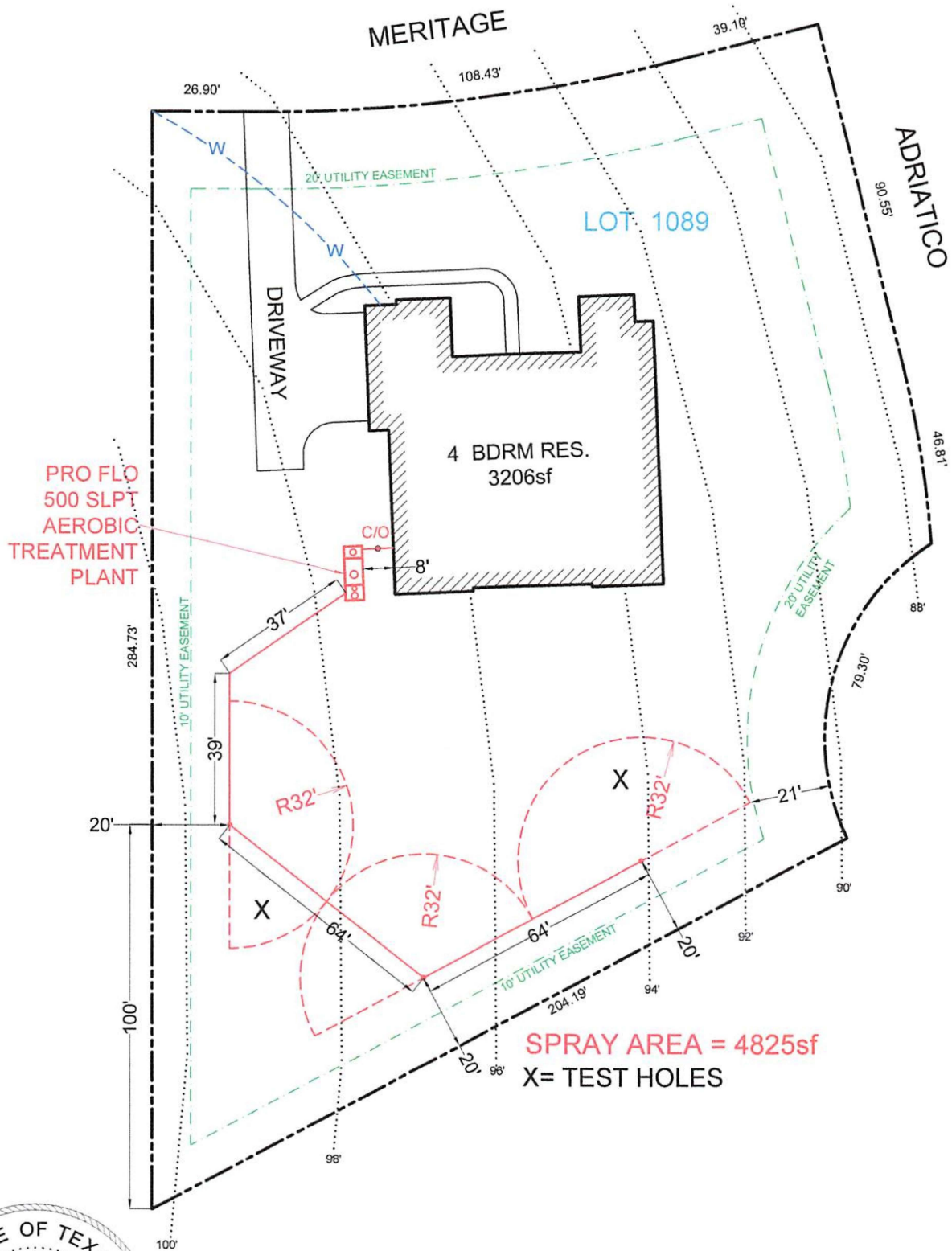
Comal County Environmental Health


ENVIRONMENTAL HEALTH INSPECTOR

OS0036/09


ENVIRONMENTAL HEALTH COORDINATOR

CCEO
COPY



| | | | | | | | |
|--|--|--|---------------|-----------------------|-------------------|--------|-----------|
| OWNER: POGUE & COMPANY, a Texas Corporation dba JLP BUILDERS, INC. | | | | | DRAWN BY: EJS III | | |
| STREET ADDRESS: 2214 MERITAGE | | | | | | | |
| LEGAL DESC: VINTAGE OAKS at the VINEYARD | | | | UNIT/SECTION/PHASE: 8 | | BLOCK: | LOT: 1089 |
| PREPARED BY: GREG W. JOHNSON, P.E. F#002585 | | | SCALE: 1"=40' | | DATE: 3/28/2022 | | REVISED: |

From: [Ritzen, Brenda](#)
To: ["Greg Johnson"](#)
Subject: RE: Permit 117197
Date: Tuesday, March 12, 2024 2:08:00 PM
Attachments: [image001.png](#)

Greg,

A preliminary inspection conducted on 3/1/2024 found that there is a concrete wall within 5 ft of the tank and pool lines within 10 ft. of the tank. Revise as needed and resubmit.

Thank you,



Brenda Ritzen
Environmental Health Coordinator
195 David Jonas Dr.
New Braunfels, TX 78132
DR:OS00007722
830-608-2090
www.cceo.org

From: Greg Johnson <gregjohnsonpe@yahoo.com>
Sent: Friday, March 8, 2024 8:11 AM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Subject: Re: Permit 117197

This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT

See attached

Steve

Send for Greg W. Johnson, P.E., R.S.)

170 Hollow Oak

New Braunfels, TX 78132

From: [Ritzen, Brenda](#)
To: chris.riley@bldr.com; "gregjohnsonpe@yahoo.com"
Subject: Permit 117197
Date: Thursday, March 7, 2024 1:42:00 PM
Attachments: [image001.png](#)

**Re: Christopher & Serika Riley
Vintage Oaks at the Vineyard Unit 8 Lot 1089
Application for Permit for Authorization to Construct an On-Site
Sewage Facility (OSSF)**

Owner / Agent :

The following information is needed before I can continue processing the referenced permit submittal:

- ✓ **All property owners as identified on the warranty deed must sign the permit application.**
- 2. Verify that all pool lines will be at least 10 ft. from all OSSF components.**
- 3. A preliminary inspection has been scheduled for today. Additional comments may be necessary once complete.**
- 4. Revise as needed and resubmit.**

Thank you,



Brenda Ritzen
Environmental Health Coordinator
195 David Jonas Dr.
New Braunfels, TX 78132
DR:OS00007722
830-608-2090
www.cceo.org



COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

VOID

195 DAVID JONAS DR
NEW BRAUNFELS, TX 78132
(830) 608-2090
WWW.CCEO.ORG

Date January 31, 2024

Permit Number 117197

1. APPLICANT / AGENT INFORMATION

Owner Name CHRISTOPHER RILEY & SERIKA RILEY
Mailing Address 2214 MERITAGE
City, State, Zip NEW BRAUNFELS, TEXAS 78132
Phone # 210-386-4211
Email chris.riley@bldr.com

Agent Name GREG JOHNSON, P.E.
Agent Address 170 HOLLOW OAK
City, State, Zip NEW BRAUNFELS TEXAS 78132
Phone # 830-905-2778
Email gregjohnsonpe@yahoo.com

2. LOCATION

Subdivision Name VINTAGE OAKS AT THE VINEYARD Unit 8 Lot 1089 Block

Survey Name / Abstract Number Acreage

Address 2214 MERITAGE City NEW BRAUNFELS State TX Zip 78132

3. TYPE OF DEVELOPMENT

☒ Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) EXISTING HOUSE

Number of Bedrooms 4

Indicate Sq Ft of Living Area 3206

☐ Non-Single Family Residential

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility

Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number Of Occupants

Restaurants, Lounges, Theaters - Indicate Number of Seats

Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds

Travel Trailer/RV Parks - Indicate Number of Spaces

Miscellaneous

VOID

Estimated Cost of Construction: \$ EXISTING (Structure Only)

Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?

☐ Yes ☒ No (If yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water ☒ Public ☐ Private Well ☐ Rainwater Collection

4. SIGNATURE OF OWNER

By signing this application, I certify that:

- The completed application and all additional information submitted does not contain any false information and does not conceal any material facts. I certify that I am the property owner or I possess the appropriate land rights necessary to make the permitted improvements on said property.
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities..
- I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

Signature of Owner

Date 2-7-24

NOTE:
EXISTING SEPTIC
SYSTEM TO BE
ABANDONED

INSTALL 3000sf OF
FIELD USING 1500'
OF DRIP TUBING.
THERE SHALL BE NO
PARKING, DRIVING
OR STORAGE ON
THE SEPTIC FIELD
AT ANY TIME FOR
ANY REASON.

*USE TWO WAY
CLEAN OUT
**USE SCH-40 OR
SDR-26 TO TANK

X= TEST HOLE

EXISTING PRO FLO
500 SLPT AEROBIC
TREATMENT PLANT.
PERMIT #114760

SLEEVE SEPTIC LINES WHEN
ENTERING CLOSER THAN 10'
FROM POOL WATER LINES
WHICH MEETS TAC 30
CHAPTER 290.44(e)(B)(i).

VOID

MERITAGE

ADRIATICO

LOT 1089

EXISTING
4 BDRM RES.
3206sf

PATIO

POOL

POOL
EQUIP.

1" VACUUM
BREAKERS

VOID



| | | | | | | |
|---|--|---------------|----------------|-----------------------|-------------------|-----------|
| OWNER: CHRISTOPHER & SERIKA RILEY | | | | | DRAWN BY: EJS III | |
| STREET ADDRESS: 2214 MERITAGE | | | | | | |
| LEGAL DESC: VINTAGE OAKS at the VINEYARD | | | | UNIT/SECTION/PHASE: 8 | BLOCK: | LOT: 1089 |
| PREPARED BY: GREG W. JOHNSON, P.E. F#002585 | | SCALE: 1"=40' | DATE: 2/7/2024 | | REVISED: | |

ATC: GF#4000442200978-TK

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

SPECIAL WARRANTY DEED
(With Third Party Vendor's Lien)

THE STATE OF TEXAS

§

COUNTY OF COMAL

§

THAT ROGUE AND COMPANY DBA JLP BUILDERS, INC., A TEXAS CORPORATION, hereinafter referred to as "Grantor" (whether one or more), for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable consideration to Grantor in hand paid by CHRISTOPHER RILEY AND SERIKA RILEY, HUSBAND AND WIFE, hereinafter referred to as "Grantee" (whether one or more), the receipt and sufficiency of which are hereby acknowledged and confessed, and for the further consideration of the execution and delivery by Grantee of one certain Promissory Note of even date herewith, in the original principal sum of Eight Hundred Forty Thousand And No/100 Dollars (\$840,000.00), payable to the order of SOUTHWEST FUNDING, LP, hereinafter called "Mortgagee"; said Promissory Note being secured by a Vendor's Lien and the Superior Title herein retained and reserved in favor of Grantor and assigned and conveyed, without recourse, to Mortgagee, and also being secured by a Deed of Trust of even date herewith from Grantee to SHAWN P. BLACK, Trustee, reference to said Promissory Note and Deed of Trust being hereby made for all purposes;

Grantor has GRANTED, SOLD AND CONVEYED, and by these presents does GRANT, SELL AND CONVEY, unto Grantee, the following described real property, to-wit:

LOT 1089, VINTAGE OAKS AT THE VINEYARD, UNIT 8, COMAL COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN DOCUMENT NO. 201406026476, MAP AND PLAT RECORDS, COMAL COUNTY, TEXAS.

together with all improvements thereon, if any, and all rights, privileges, tenements, hereditaments, rights of way, easements, appendages and appurtenances, in anyway appertaining thereto, and all right, title, and interest of Grantor in and to any streets, ways, alleys, strips or gores of land adjoining the above described property or any part thereof (hereinafter referred to as the "Property").

TO HAVE AND TO HOLD the Property, together with all and singular the rights and appurtenances thereto in any wise belonging, unto Grantee and Grantee's heirs or assigns FOREVER. Grantor does hereby bind Grantor and Grantor's heirs, executors, and administrators TO WARRANT AND FOREVER DEFEND all and singular the said Property unto Grantee and Grantee's heirs and assigns against every person whomsoever lawfully claiming or to claim the same, or any part thereof, by, through or under Grantor, but not otherwise.

But it is expressly agreed that Grantor reserves and retains for Grantor, and Grantor's heirs and assigns, a Vendor's Lien, as well as the Superior Title, against the Property until the above described Promissory Note and all interest therein have been fully paid according to the terms thereof, when this Deed shall become absolute.

WHEREAS, Mortgagee, at the special instance and request of Grantee, having paid to Grantor a portion of the purchase price of the Property, as evidenced by the above described Promissory Note, Grantor hereby assigns, transfers, conveys and delivers, without recourse, to Mortgagee said Vendor's Lien and Superior Title against said Property to secure the payment of said Promissory Note, and subrogates Mortgagee to all rights and remedies of Grantor in the Property by virtue thereof.

To the extent applicable to and enforceable against the Property, this Deed is executed, delivered and



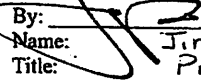
accepted subject to the following: any liens described herein; ad valorem taxes for the current and all subsequent years, and subsequent assessments for prior years due to changes in land usage or ownership; zoning ordinances, utility district assessments, and standby fees, if any; all valid utility easements created by the dedication deed or plat of the platted subdivision in which the Property is located, covenants and restrictions common to the platted subdivision in which the Property is located, mineral reservations, and maintenance or assessment liens (if any), all as shown by the real property records of the County Clerk of the County in which said Property is located; and any title or rights asserted by anyone (including, but not limited to, persons, corporations, governments or other entities) to tidelands, or lands comprising the shores or beds of navigable or perennial rivers and streams, lakes, bays, gulfs or oceans, or to any land extending from the line of the harbor or bulkhead lines as established or changed by any government or to filled-in lands, or artificial islands, or to riparian rights or other statutory water rights, or the rights or interests of the State of Texas or the public generally in the area extending from the line of mean low tide to the line of vegetation or the right of access thereto, or right of easement along and across the same, if any.

The contract between Grantor, as the seller, and Grantee, as the buyer, may contain limitations as to warranties. To the extent said contract provides for such limitations to survive this conveyance, they shall be deemed incorporated herein by reference. However, the warranty of title contained in this Deed is hereby expressly excluded from any limitations as to warranties contained in the contract referenced in this paragraph.

When this Deed is executed by more than one person, or when Grantee is more than one person, the instrument shall read as though pertinent verbs, nouns and pronouns were changed correspondingly, and when executed by or to a legal entity other than a natural person, the words "heirs, executors and administrators" or "heirs and assigns" shall be construed to mean "successors and assigns". Reference to any gender shall include either gender and in the case of a legal entity other than a natural person, shall include the neuter gender, all as the case may be. The term "Mortgagee" shall include the Mortgagee's heirs, successors and assigns, as applicable.

DATED the 31ST day of MARCH, 2023.

POGUE AND COMPANY DBA JLP BUILDERS,
INC., A TEXAS CORPORATION

By: 
Name: Jimmie Pogue
Title: President

After Recording Return To Grantee.
At GRANTEE'S MAILING ADDRESS:
CHRISTOPHER RILEY
2214 MERITAGE
NEW BRAUNFELS, TX 78132



ACKNOWLEDGMENT

The State of TEXAS §

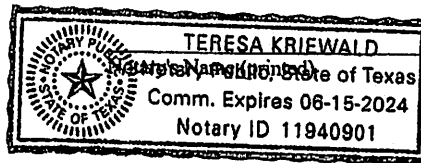
County of Comal §

This instrument was acknowledged before me on the 31 day of March 2023 by
Jimnie Pogue, President of POGUE AND COMPANY DBA
JLP BUILDERS, INC., A TEXAS CORPORATION a TX Corporation, on
behalf of said Entity.

Teresa Kriewald
Notary Public

My commission expires:

6/15/2024



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
04/03/2023 11:37:19 AM
LAURA 3 Pages(s)
202306010065



Bobbie Koepp





COMAL COUNTY
ENGINEER'S OFFICE

**OSSF DEVELOPMENT APPLICATION
CHECKLIST**

Staff will complete shaded items

| | | |
|----------------------|-----------------|----------------------|
| | | 117197 |
| <i>Date Received</i> | <i>Initials</i> | <i>Permit Number</i> |

Instructions:

Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application Checklist **must** accompany the completed application.

OSSF Permit

- ☒ Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate
- ☒ Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer
- ☒ Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications.
- ☒ Required Permit Fee - See Attached Fee Schedule
- ☒ Copy of Recorded Deed
- ☒ Surface Application/Aerobic Treatment System
 - ☒ Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public
 - ☒ Signed Maintenance Contract with Effective Date as Issuance of License to Operate

I affirm that I have provided all information required for my OSSF Development Application and that this application constitutes a completed OSSF Development Application.

Signature of Applicant

2/17/2024

Date

| | |
|--------------------------|-------------------|
| ___ COMPLETE APPLICATION | |
| Check No. _____ | Receipt No. _____ |

| |
|--|
| INCOMPLETE APPLICATION |
| ___ (Missing Items Circled, Application Refused) |