From: Ritzen,Brenda
To: "Greg Johnson"; Allen,Corey
Cc: Scott Schneider
Subject: RE: 1290 SKYLINE DR - KEENE #116975
Date: Thursday, March 27, 2025 2:50:00 PM
Attachments: image001.png

Greg,

Please provide a variance request pool lines within close proximity of the drip field.

Thank you,

COMAL COUNTY TEXAS

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 27, 2025 8:46 AM
To: Ritzen,Brenda <rabbjr@co.comal.tx.us>; Allen,Corey <Allenc@co.comal.tx.us>
Cc: Scott Schneider <booma21@gmail.com>
Subject: 1290 SKYLINE DR - KEENE #116975

REVISED TO SHOW SLEEVED POOL LINE AND POOL EQUIPMENT.
THANKS,
GREG

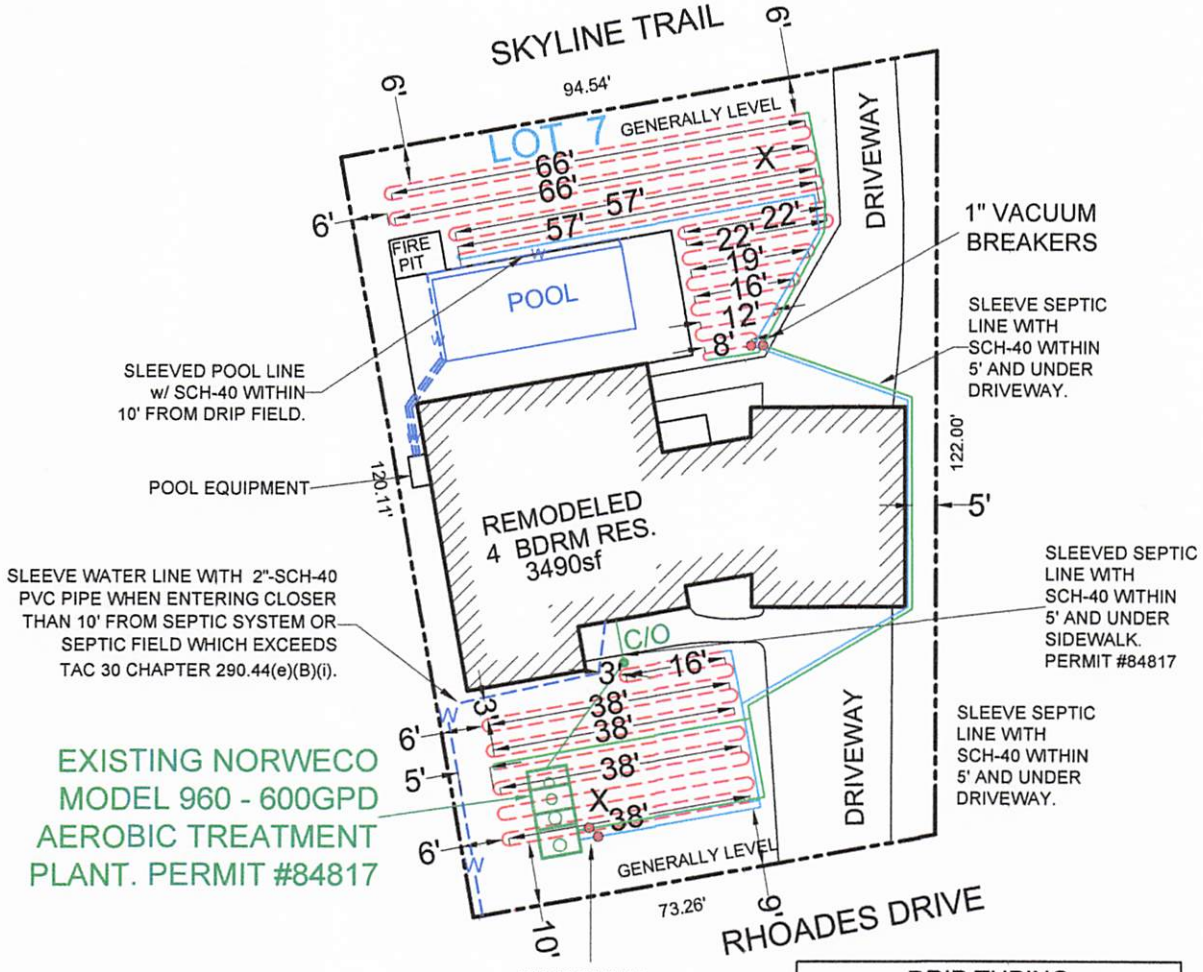
Send for Greg W. Johnson, P.E.,R.S.)

170 Hollow Oak

New Braunfels, TX 78132

REVISED
2:49 pm, Mar 27, 2025

#116975



NOTE:
EXISTING SEPTIC FIELD TO BE ABANDONED

INSTALL 2122sf OF FIELD USING 1061' 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

DRIP TUBING				
ZONE 1	ZONE 2	ZONE 3	ZONE 4	TOTAL
38	38	8	57	
38	38	8	57	
38	38	12	57	
38	38	12	66	
38	16	16	66	
38	16	16	66	
38		19	66	
		19		
		22		
		22		
		22		
266	184	176	435	1061

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED PROFESSIONAL ENGINEER

OWNER: RAYMOND & KAY KEENE					DRAWN BY: EJS III / GWJ
STREET ADDRESS: 1290 SKYLINE DRIVE					
LEGAL DESC: SADDLE BRONC ACRES		UNIT/SECTION/PHASE:		BLOCK: 1	LOT: 7
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=30'	DATE: 11/14/2023	REVISED: 03/27/2025		

Comal County Environmental Health
OSSF Inspection Sheet

Installer Name: Schneider, Scott J **OSSF Installer #:** OS0026996

1st Inspection Date: 3/5/25 **2nd Inspection Date:** 3/25/25 **3rd Inspection Date:**

Inspector Name: Hendry **Inspector Name:** Corey Allen **Inspector Name:**

Permit#: 116975 **Address:** 1290 SKYLINE DR

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	X	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)		X		
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards	X	285.91(10) 285.30(b)(4) 285.31(d)		X		
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)	X	285.32(a)(1)		X		
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot	X	285.32(a)(3)		X		
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	X	285.32(a)(5)		X		
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: **3/5/25 CH: Tight line good, water line sleeved except at connection to structure, ready for cover, leave water line sleeving at structure exposed for next inspection, sleeve any pool lines within 10’ and add to design revision 3/25/25 CA: Show pool lines on design waterline and pool lines sleeved distribution lines within 5 ft of property line. Need op**

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 SingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and " T " Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum 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	x	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)		x		
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 providedSEPTIC 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	x		600 gpd	x		
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	x x		Existing Norweco 960; as per design (permit #84817)	x x		
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 Evapo-transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

Comal County Environmental Health
OSSF Inspection Sheet

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
19	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
21	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(4) 285.33(a)(3) 285.33(a)(1) 285.33(a)(2)				
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)				
23	DISPOSAL SYSTEM Mound		285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)				
24	DISPOSAL SYSTEM Other (describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
25	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC						
26	DRAINFIELD Area Installed						
27	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
28	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
29	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
30	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End Plates w/Splash Plate, Inspection Port & Closed End Plates in Place (per manufacturers spec.)		285.33(c)(2)				
31	LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches		285.33(d)(1)(C)(i)				

Comal County Environmental Health
OSSF Inspection Sheet

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
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.	X	285.32(c)(1)		X		
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	X X X X			X X X X		
35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.	X			X		
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
OSSF Inspection Sheet

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	X	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)		X		
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	X X	285.33(d)(2)(G) (i)285.33(d)(2) (A)285.33(d)(2)(F)		X X		
42	APPLICATION AREA Area Installed	X			X		
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:	116975
Issued This Date:	11/19/2024
This permit is hereby given to:	RAYMOND & KAY KEENE

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

1290 SKYLINE DR
CANYON LAKE, TX 78133

Subdivision:	SADDLE BRONC ACRES
Unit:	0
Lot:	7
Block:	1
Acreage:	0.0000

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.

RECEIVED
By Kathy Griffin at 2:02 pm, Dec 05, 2023

COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

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

Date November 13, 2023

Permit Number 116975

1. APPLICANT / AGENT INFORMATION

Owner Name	RAYMOND & KAY KEENE	Agent Name	GREG JOHNSON, P.E.
Mailing Address	c/o PO BOX 312611	Agent Address	170 HOLLOW OAK
City, State, Zip	NEW BRAUNFELS TEXAS 78131	City, State, Zip	NEW BRAUNFELS TEXAS 78132
Phone #	210-316-7390	Phone #	830-905-2778
Email	info@myparkerhomes.com	Email	gregjohnsonpe@yahoo.com

2. LOCATION

Subdivision Name SADDLE BRONC ACRES Unit _____ Lot 7 Block 1

Survey Name / Abstract Number _____ Acreage _____

Address 1290 SKYLINE DRIVE City CANYON LAKE State TX Zip 78133

3. TYPE OF DEVELOPMENT

☒ Single Family Residential

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

Number of Bedrooms 4

Indicate Sq Ft of Living Area 3490

☐ 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: $ 700,000 (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.

Raymond Keene Kay Keene
Signature of Owner

11-13-23
Date

Revised January 2021

Affidavit to the Public Doc# 200306037286

THE COUNTY OF McLennan

STATE OF TEXAS

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

According to Texas Commission on Environmental Quality Rules for On-Site Sewage Facilities, 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 (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the TCEQ 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 TCEQ, 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 OSSFs are located on specific pieces of property. To achieve this notice, the TCEQ requires a deed recording. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This deed certification is not a representation or warranty by the TCEQ of the suitability of this OSSF, nor does it constitute any guarantee by the TCEQ 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): Lot 7, Block 1, Saddle Bronc Acres, Comal County, Texas.

The property is owned by Raymond and Kay Keene

This OSSF must be covered by a continuous maintenance contract. All maintenance on this OSSF must be performed by an approved maintenance company, and a signed maintenance contract must be submitted to Comal County Environmental Health within 30 days after the property has been transferred.

The owner will, upon any sale or transfer of the above-described property, request a transfer of the permit for the OSSF to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from Comal County Environmental Health.

WITNESS BY HAND(S) ON THIS 30th DAY OF September, 2003.

Kay Keene

John Raymond Keene
(Owner(s)signature(s))

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 30th DAY OF September, 2003

Debra L. Preston
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

DEBRA L. PRESTON
Notary Public, State of Texas
My Commission Expires
September 09, 2007

Doc# 200306037286
Pages 1
10/07/2003 01:24:29 PM
Filed & Recorded in
Official Records of
COMAL COUNTY
JOY STREATER
COUNTY CLERK
Fees $16.00

Instructions:
1) Document must be completed and Property Owner(s) signature(s) notarized.
2) Record completed document in the County Clerk's Office.
3) Submit recorded document to the County Environmental Health Office.

Doc# 200306037286

ON-SITE SEWERAGE FACILITY
SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed: **November 13, 2023**

Site Location: **SADDLE BRONC ACRES, BLOCK 1, LOT 7**

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 **SURFACE EVALUATION**

Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 – 10"	III	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 10"	BROWN
1						
2						
3						
4						
5						

SOIL BORING NUMBER **SURFACE EVALUATION**

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

11/13/2023
Date

OSSF SOIL EVALUATION REPORT INFORMATION

Date: November 14, 2023

Applicant Information:

Name: RAYMOND & KAY KEENE
Address: c/o P.O. BOX 312611
City: NEW BRAUNFELS State: TEXAS
Zip Code: 78131 Phone: (210) 316-7390

Site Evaluator Information:

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

Property Location:

Lot 7 Unit ___ Blk 1 Subd. SADDLE BRONC ACRES
Street Address: 1290 SKYLINE DRIVE
City: CANYON LAKE Zip Code: 78133
Additional Info.: ___

Installer Information:

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

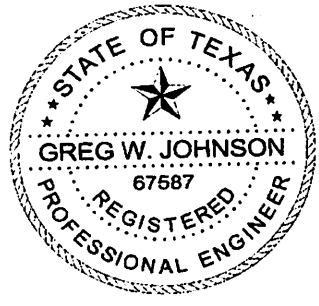
Topography: Slope within proposed disposal area: GENERALLY LEVEL %

Presence of 100 yr. Flood Zone:	YES ___	NO X
Existing or proposed water well in nearby area.	YES ___	NO X
Presence of adjacent ponds, streams, water impoundments	YES ___	NO X
Presence of upper water shed	YES ___	NO X
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

11/14/23
DATE



FIRM #2585

RECEIVED
By Brenda Ritzen at 9:58 am, Nov 19, 2024

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

November 18, 2024

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

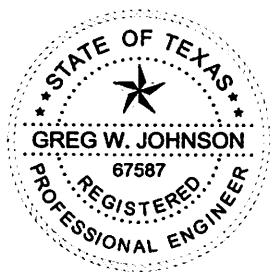
RE: Septic Design #116975
1290 SKYLINE DRIVE
SADDLE BRONC ACRES, BLOCK 33, LOT 7
KEENE RESIDENCE

Brenda,
A portion of the waterline is as close as three feet from the proposed drip field. A variance is required to Chapter 285 Table X & 290.44(e)(8). Equivalent protection will be maintained by sleeving the water service line with SCH-40 PVC within ten feet of the proposed drip field. I hereby request a variance to Chapter 285 Table X & 290.44(e)(8).

If I can be of further assistance please contact me.

Respectfully yours,

Greg W. Johnson, P.E., F#2585



REVISED
11:44 am, Mar 24, 2025

DRIP TUBING SYSTEM

DESIGNED FOR:
RAYMOND & KAY KEENE
c/o P.O. BOX 312611
NEW BRAUNFELS, TEXAS 78132

SITE DESCRIPTION:

Located in Saddle Bronc Acres, Block 1, Lot 7, at 1290 Skyline Drive, the septic system will serve a four bedroom residence (3490sf.) situated in an area with shallow Type-III soil as described in the Soil Evaluation Report. 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 or 4 inch SCH-40 pipe discharges from the residence into an existing Norweco Model 960-600 gpd aerobic treatment plant (#84817) containing a 400 gal. pretreatment chamber and a 825 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP Norweco HA31 submersible well pump. The well pump is activated by mercury floats and a timer set to cycle eight times per day with a tank operating level from 50-70 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron Arkal 1" Super Filter, disk filter " filter then through a 1" SCH-40 manifold to a new 2122sf. 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 Model PMR30MF 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 provide to periodically field flush the system by cycling a 1" ball valve. Solids caught in the disc filter are flushed each cycle back to the trash tank. Agricultural Products, Inc. (Model #VBK-1) 1" PVC vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the new field area must be scarified and built up with two inches of Type II or III soil. Drip tubing will be laid and the entire field area will be capped with 6" of loamy soil (Type 2 or 3 - ***NOT SAND)***. ***A minimum of 12" of soil required between drip lines and aerobic tank/rock*** . The field area will be sodded with grass with hearty grass such as Bermuda, St. Augustine, etc. 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:

Q = 300 gallons per day - 4 bedroom residence 3490 sf. (Table III)
Pretreatment tank size: 400 Gal

#116975

SADDLE BRONC ACRES, BLOCK 1, LOT 7

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

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

REVISED
11:44 am, Mar 24, 2025

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

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

Tank Size(s) (Gallons) EXISTING NORWECO MODEL 960-600 GPD #84817 **Absorption/Application Area (Sq Ft)** 2122

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? ☒ Yes ☐ No

Is there an existing TCEQ approval CZP for the property? ☐ Yes ☒ No

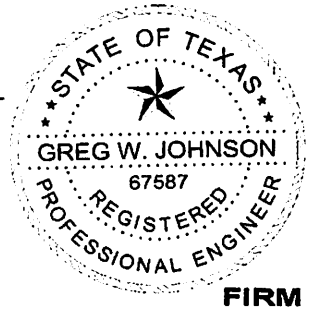
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

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

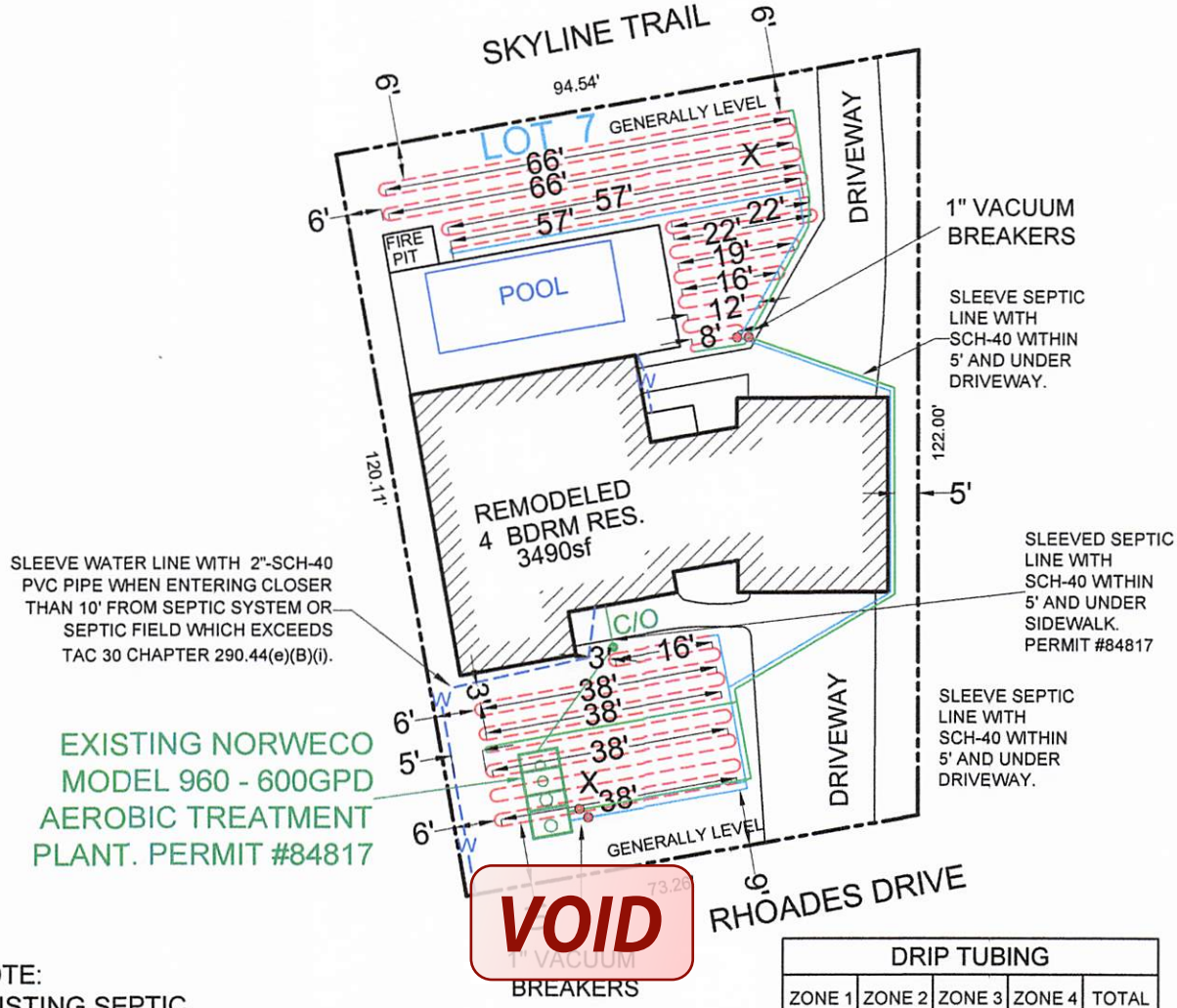
Signature of Designer

November 14, 2023
Date

195 David Jonas Dr., New Braunfels, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078

VOID

REVISED
11:44 am, Mar 24, 2025



VOID

NOTE:
EXISTING SEPTIC FIELD TO BE ABANDONED

INSTALL 2122sf OF FIELD USING 1061' 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

DRIP TUBING				
ZONE 1	ZONE 2	ZONE 3	ZONE 4	TOTAL
38	38	8	57	
38	38	8	57	
38	38	12	57	
38	38	12	66	
38	16	16	66	
38	16	16	66	
38		19	66	
		19		
		22		
		22		
		22		
266	184	176	435	1061

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED PROFESSIONAL ENGINEER

OWNER: RAYMOND & KAY KEENE					DRAWN BY: EJS III / GWJ
STREET ADDRESS: 1290 SKYLINE DRIVE					
LEGAL DESC: SADDLE BRONC ACRES		UNIT/SECTION/PHASE:		BLOCK: 1	LOT: 7
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=30'	DATE: 11/14/2023	REVISED: 03/24/2025		

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.

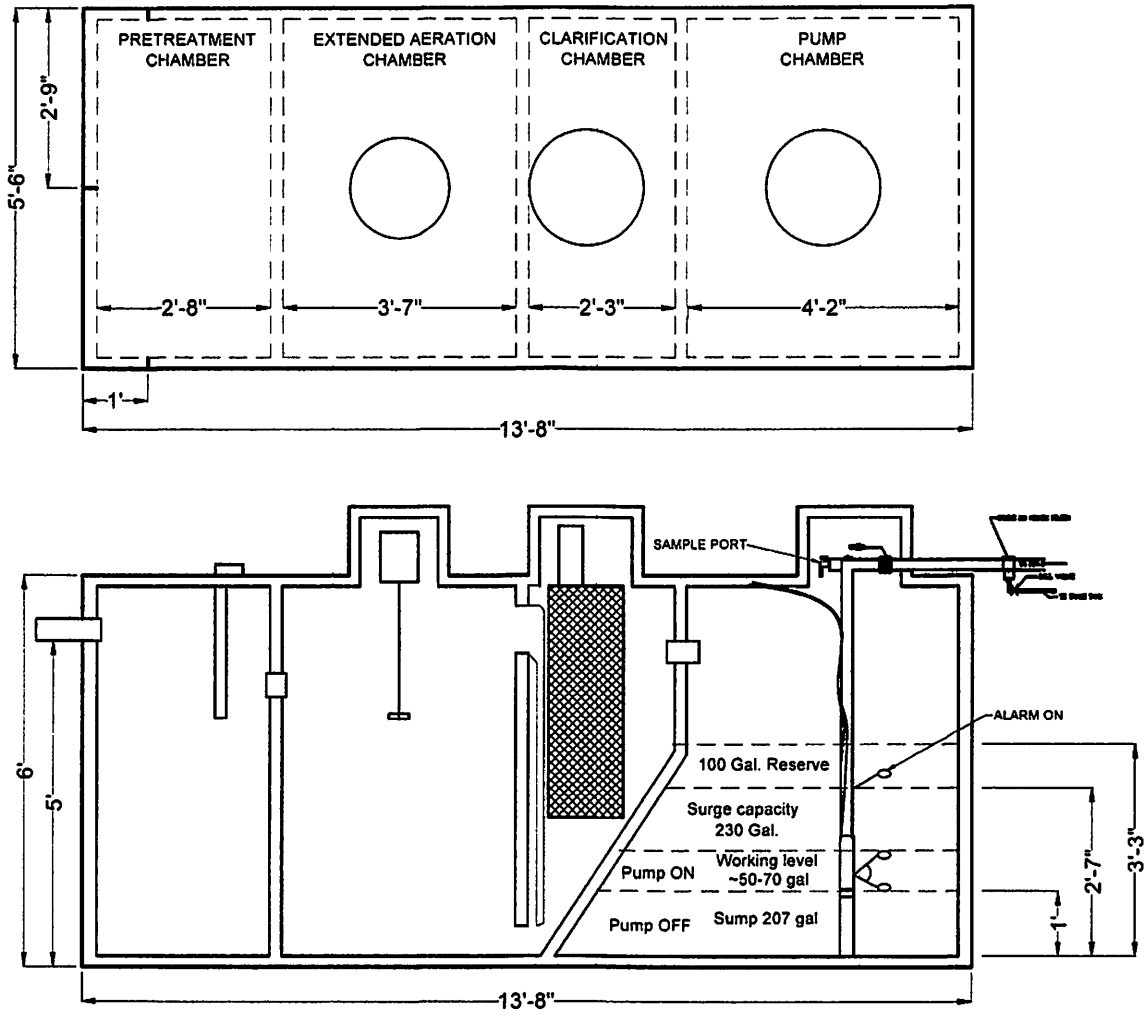
A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

Tanks must be left uncovered and full of water for inspection by the permitting authority.

ALL WIRING MUST BE IN COMPLIANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED PROFESSIONAL ENGINEER

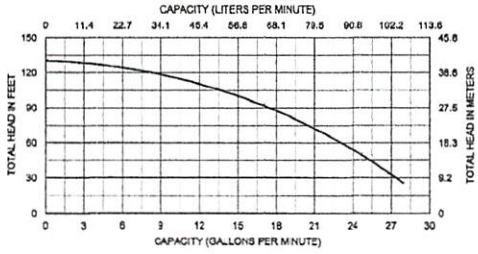
F2585
11/14/23



TYPICAL PUMP TANK CONFIGURATION
NORWECO SINGULAR BIO-KINETIC
MODEL 960-600 GPD (up to 4 BDRM)

HIGH HEAD EFFLUENT PUMP

Designed specifically for pumping filtered effluent in high pressure applications, Norweco's Model 31HA, ½ hp, 115 volt, single phase submersible pump delivers 15 gpm at 100' TDH.



FEATURES

- UL & CSA listed
- 10' jacketed power cord
- Stainless steel construction
- Built in overload protection
- 1 ¼" NPT discharge
- Continuous duty motor
- Built in surge protection
- Hermetically sealed windings
- Versatile and efficient
- Built-in check valve
- Capacities to 27 gpm
- Heads to 130 feet

SPECIFICATIONS

The pump shall be a Norweco Model 31HA submersible pump, designed to handle filtered effluent and be capable of passing 1/16" spherical solids. The 115 volt, single phase, 60 cycle pump shall be capable of running dry for short durations without damage to the motor or pump end.

The pump motor shall be ½ horsepower rated and operate at 3450 RPM. The motor assembly shall consist of a corrosion resistant, all stainless steel exterior construction and incorporate a dual action starting switch to provide automatic torque reversal. An electrical surge and overload protector shall be attached to the top end of the motor windings and shall be wired in series to automatically cease operation when the winding temperature reaches 266° F. The 10' long motor power cord shall be 14-3 jacketed, type SJOW-A. The cable jacket shall be sealed at the motor entrance by means of a rubber compression washer and compression nut. The pump impeller shall be of the six vane enclosed type, constructed of engineered thermoplastic. The impeller shall have a hexagonal I.D. and be positively driven by a hexagonal 300 series stainless steel pump shaft. The pump shall be the product of a manufacturer having at least seven years experience in the construction of submersible pumps. The pump shall be warranted by the manufacturer against defects in material and workmanship for a period of one year under normal use and service.

DISTRIBUTED LOCALLY BY:

NORWECO.
NORWALK WASTEWATER EQUIPMENT COMPANY

220 REPUBLIC STREET
NORWALK, OHIO, USA 44857-1196
TELEPHONE (419) 668-4471
FAX (419) 663-5440
www.norweco.com

PROGRESS THROUGH SERVICE SINCE 1906

Arkal 1" Super Filter

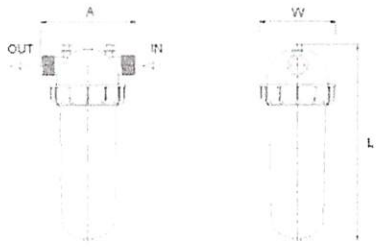
Catalog No. 1102 0_ _ _

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

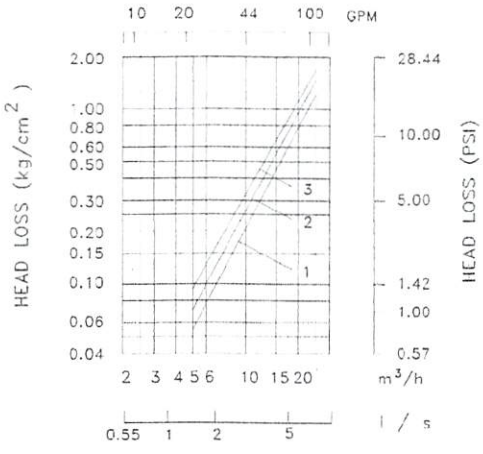
Inlet/outlet diameter	1" BSPT (male) 25.0 mm – nominal diameter 33.6 mm – pipe diameter (O. D.)	1" NPT (male)
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m^3/h (1.7 l/sec)	35 gpm
General filtration area	500 cm^2	77.5 in^2
Filtration volume	600 cm^3	37 in^3
Filter length L	340 mm	13 13/32"
Filter 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	Outlet
¾-inch Female National Pipe Thread (FNPT)	¾-inch Female National Pipe Thread (FNPT)
1-inch Female National Pipe Thread (FNPT)	1-inch Female National Pipe Thread (FNPT)
1-inch Female British Standard Pipe Thread (FBSPT)	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

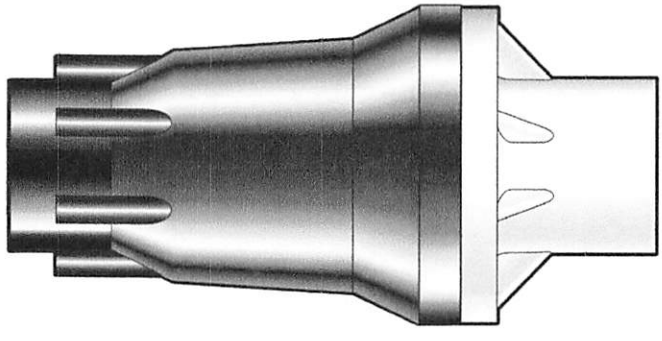
3/4" FNPT x 3/4" FNPT model *(shown on right)*

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.

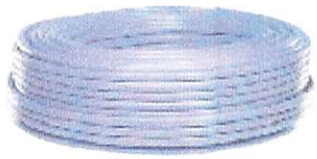
PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

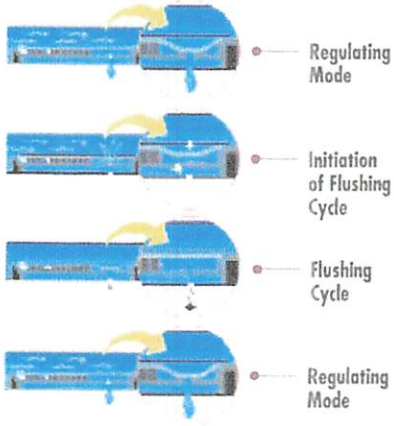
Model Numbers

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.

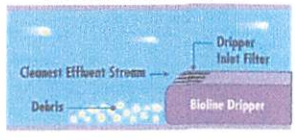
Quality Manufacturing with Specifications Designed to Meet Your Needs

- 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.

Cross Section of Bioline Dripperline



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"*

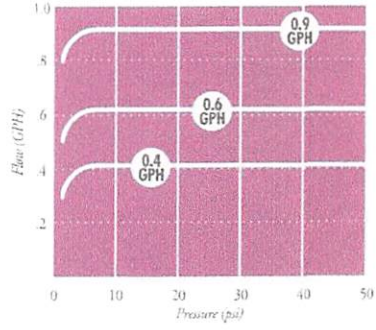
Recommended filtration: 120 mesh

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™

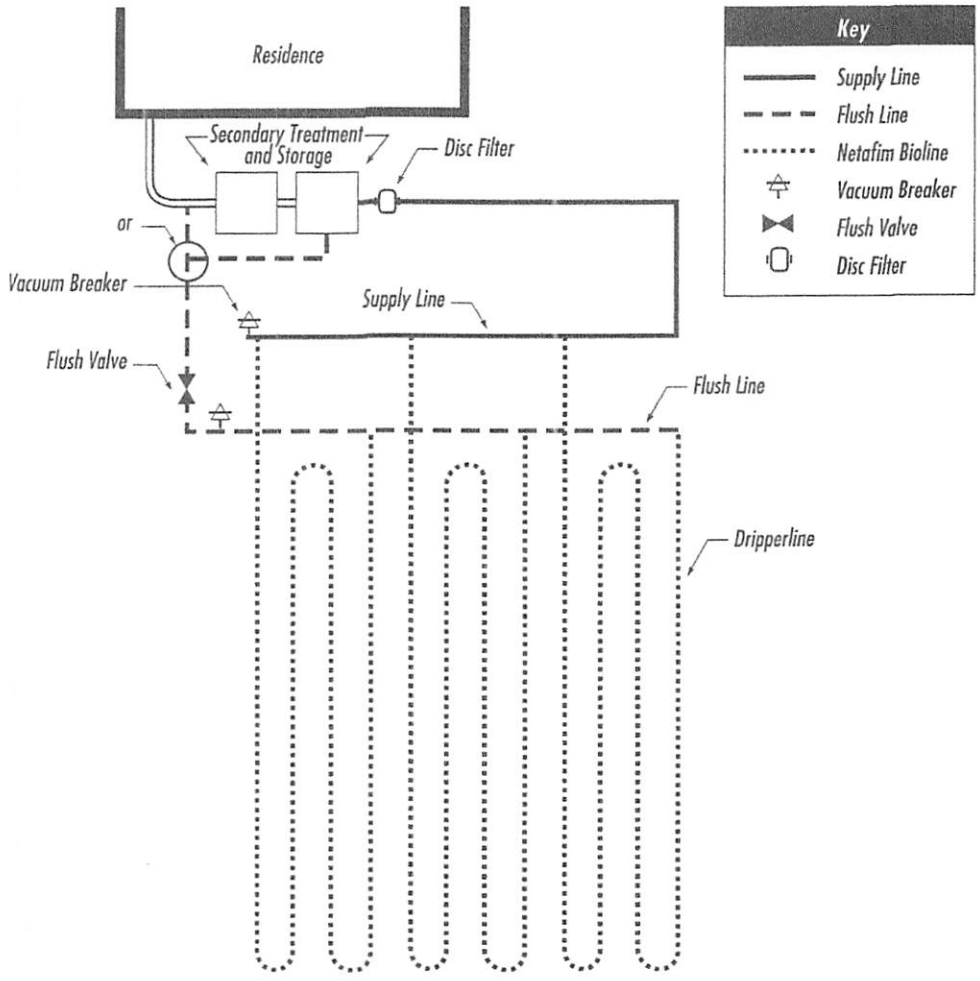
NETAFIM USA
5470 E. Home Ave. • Fresno, CA 93727
888.638.2346 • 559.453.6800
FAX 800.695.4753
www.netafimusa.com

SAMPLE DESIGNS

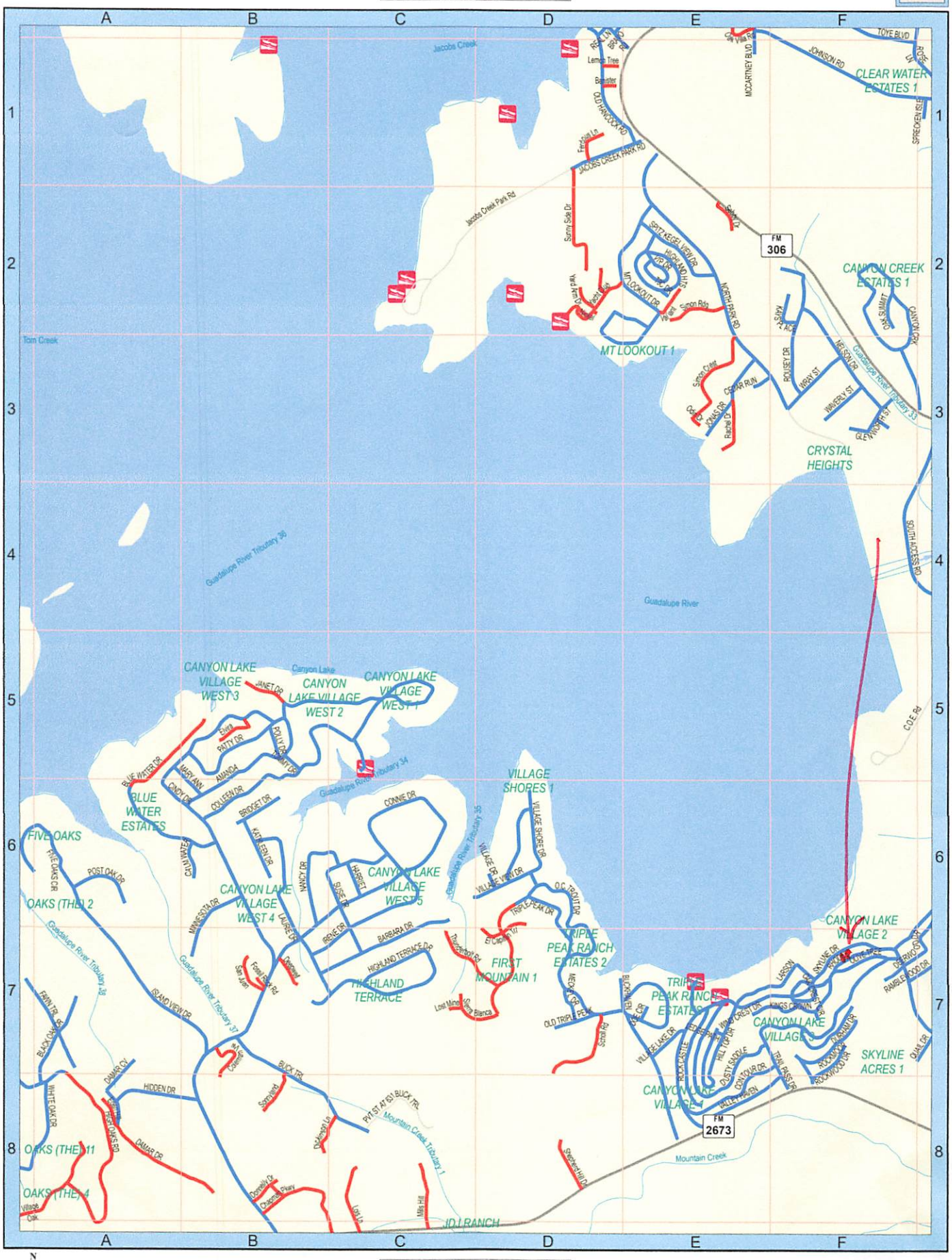
SINGLE TRENCH LAYOUT

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 PAGE29 ↑



↓ SEE PAGE31 ↓

↓ SEE PAGE43 ↓

Produced by the Comal County Engineer's Office - 7/17/2023

CCEO
COPY

Comal County

OFFICE OF COMAL COUNTY ENGINEER

License to Operate
On-site Sewage Treatment and Disposal Facility

Date Issued: 1/16/2004

Permit Number: 84817

Location Description: 1290 Skyline, Canyon Lake, TX 78133
Lot 7, Block 1, Saddle Bronc Acres Subdivision

Type of System: Aerobic Treatment with Drip Emitters Discharge

License issued to: Raymond & Kay Keene

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 Natural Resource Conservation Commission.

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.

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

OS8479
ENVIRONMENTAL HEALTH INSPECTOR

OS7722
ENVIRONMENTAL HEALTH COORDINATOR

This "License-Operate" report was printed on 1/16/2004 by: Comal County Environmental Health,, operator, using CASST Ver 2.1

195 David Jonas Drive • New Braunfels, Texas 78130 • (830) 608-2090 FAX (830) 608-2009

84817

RAYMOND AND KAY KEENE
LOT 7, BLOCK 1, SADDLE BRONC ACRES
COMAL COUNTY, TEXAS

REMODEL SEPTIC

MAPSCO: 356 F7

CCEO COPY

N

SCALE: 1" = 20'

RECEIVED
OCT 0 1 2003
COUNTY ENGINEER

INSTALL NORWECO 960-500 AEROBIC PLANT WITH PUMP CHAMBER.

USE TWO-WAY C/O BETWEEN HOUSE AND TANK.

ABANDON EXISTING TANK.

INSTALL 2600 S.F. DRIP IRRIGATION FIELD USING 1300' OF NETAFIM PRESSURE COMPENSATED DRIP TUBING WITH 0.6 GPH DRIP EMITTERS SPACED AT 24" INTERVALS.

5 ZONES AS FOLLOWS:

ZONE 1 - 35,35,34,34,34, 34,33,33
ZONE 2 - 33,33,32,32,32, 32,31,31
ZONE 3 - 14,14,14,14,14, 14,14,14
ZONE 4 - 31,31,30.5,30.5 30.5,30.5,29,28, 26,25,24,18
ZONE 5 - 66,66,66,66,31,31

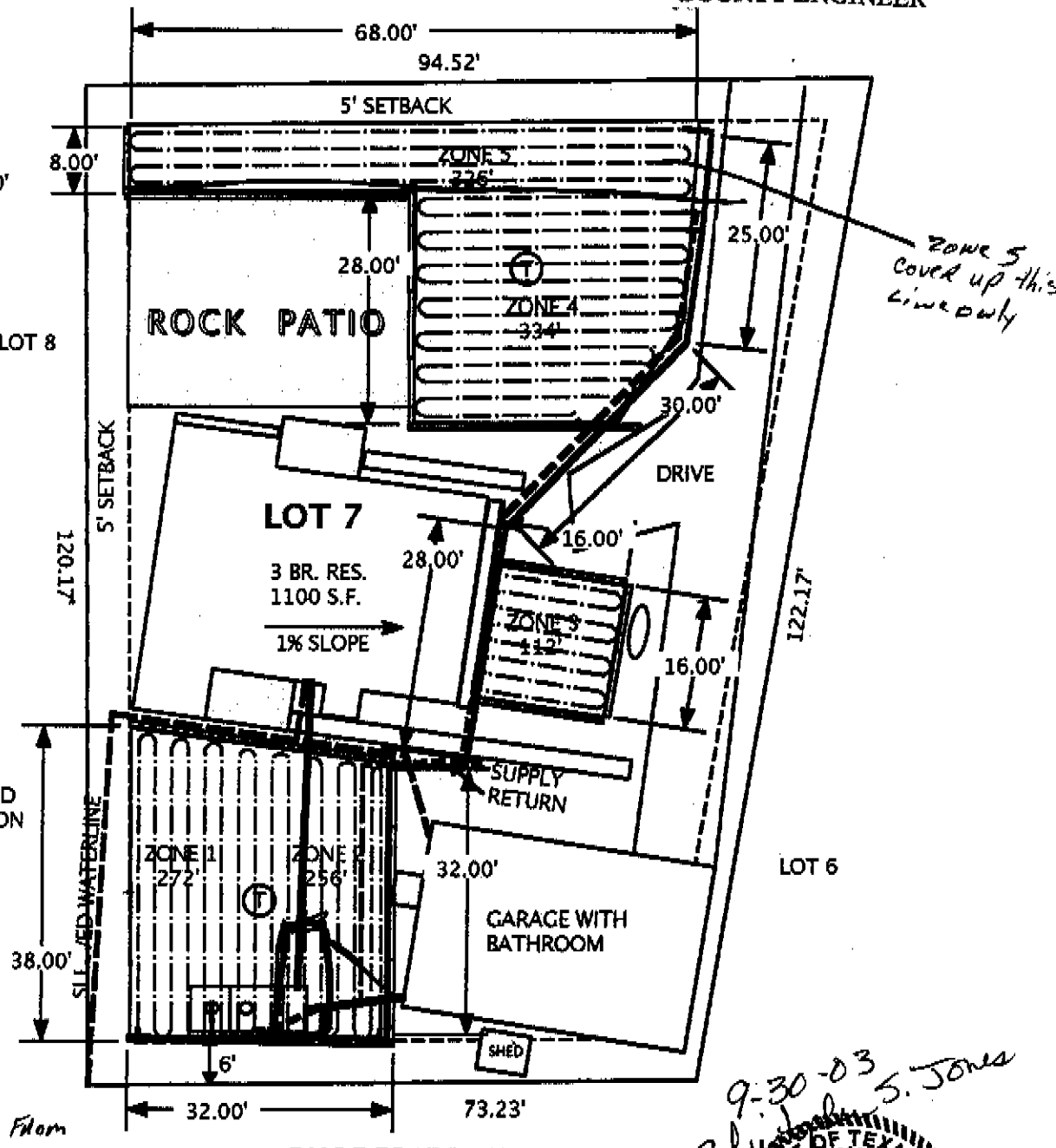
ENTIRE WATERLINE MUST BE SLEEVED.

INSTALL RAILROAD TIE BERM WHERE DEPICTED.

INSTALL VACUUM BREAKER AND ISOLATION/SHUT-OFF VALVE ON EACH ZONE JUST PRIOR TO ENTERING RETURN MANIFOLD.

TEST HOLE LOCATION.

1290 SKYLINE DRIVE



Zone 5 Cover up this Line only

MT
51-11/13/03
Tank set, Level
Water Line sleeved From meter to House + Extra Line Zone 5 Covered up to My Line.

MT
52-1/16/04
All Field is in operational & Ready For Cover.

MT
53-1/16/04
Covered, Front back Ready For L.T.O.

9-30-03 S. Jones
Christopher S. Jones

STATE OF TEXAS
CHRISTOPHER S. JONES
3609
PROFESSIONAL SANITARIAN

From: Ritzen,Brenda
To: Greg Johnson
Cc: Scott Schneider
Subject: RE: 1290 SKYLINE DR - KEENE #116975
Date: Wednesday, March 26, 2025 8:19:00 AM
Attachments: image001.png

Greg,

The permit file has been updated.

Thank you,

COMAL COUNTY TEXAS

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: Tuesday, March 25, 2025 2:58 PM
To: Ritzen,Brenda <rabbjr@co.comal.tx.us>
Cc: Scott Schneider <booma21@gmail.com>
Subject: Re: 1290 SKYLINE DR - KEENE #116975

See attached

Steve

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

170 Hollow Oak

New Braunfels, TX 78132

From: Ritzen,Brenda
To: Greg Johnson
Cc: Scott Schneider
Subject: RE: 1290 SKYLINE DR - KEENE #116975
Date: Monday, March 24, 2025 11:54:00 AM
Attachments: Page from 116975.pdf
image001.png

Greg,

There appears to be a typo on the actual sf. of drip tubing on the attached page. See highlighted on attachment.

Thank you,

COMAL COUNTY TEXAS

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: Monday, March 24, 2025 8:49 AM
To: Ritzen,Brenda <rabbjr@co.comal.tx.us>
Cc: Scott Schneider <booma21@gmail.com>
Subject: 1290 SKYLINE DR - KEENE #116975

REVISED.
THX,
GREG

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

170 Hollow Oak

New Braunfels, TX 78132

REVISED
11:44 am, Mar 24, 2025

VOID

Plant Size: Existing Norweco Model 960 - 600 GPD (TCEQ Approved) (#84817)
Pump tank size: 825 Gal
Reserve capacity after High Level: 100 gal. (1/3 day usage)
Application Rate: Ra = 0.2 gal/sf
Total absorption area: Q/Ra = 300 GPD/0.20 = 1500 sf. (Actual 2092 sf.)
Total linear feet drip tubing: 1061' ***Netifim Bioline*** drip tubing .61 GPH
Pump requirement: 531 emitters @ 0.61 gph @ 20 psi = 5.4 gpm
Pump:0.5 HP Norweco HA31 submersible pump or equivalent.
Dosing volume: 50-70 gal.
Pump Tank Calculations: 825 Gal (13.5-19 gal/in.)
Volume below working level = 12"= 207 gal
Working level = 300 gal = 19"
Reserve Requirement = 1/3 day = 100 gal. = 8"

MINIMUM SCOUR VELOCITY (**MSV**) > 2 FPS
IN DRIP TUBING W/ NOM. DIA. 0.55" ID
MSV = 2 FPS (Πd↑2)/4*7.48 gal/cf*60 sec/min
MSV = 2(3.14159((.55/12)↑2)/4)*7.48*60
MSV = 1.5 gpm MIN FLOW RATE x 4 lines = 6 gpm

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID
MSV = 2 FPS (Πd↑2)/4*7.48 gal/cf*60 sec/min
MSV = 2(3.14159((1.049/12)↑2)/4)*7.48*60
MSV = 5.4 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. Drip tubing 0.61 gph drip tubing to be used in field. The manifold trench should be kept shallow to prevent interconnection of the trenches.

VOID

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

03/24/25

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

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

#116975

VOID

SADDLE BRONC ACRES, BLOCK 1, LOT 7

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

REVISED
9:58 am, Nov 19, 2024

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 DRIP TUBING

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

Tank Size(s) (Gallons) EXISTING NORWECO MODEL 960-600 GPD #84817 **Absorption/Application Area (Sq Ft)** 2092

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? ☒ Yes ☐ No

VOID

Is 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: _____

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

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

November 14, 2023
Date

195 David Jonas Dr., New Braunfels, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078

SADDLE BRONC ACRES, BLOCK 1, LOT 7

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Tank Size(s) (Gallons) EXISTING NORWECO MODEL 960-600 GPD #84817 **Absorption/Application Area (Sq Ft)** ~~3100~~ 2370

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

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Signature of Designer

November 14, 2023
Date

VOID

REVISED
9:58 am, Nov 19, 2024

DRIP TUBING SYSTEM

DESIGNED FOR:
RAYMOND & KAY KEENE
c/o P.O. BOX 312611
NEW BRAUNFELS, TEXAS 78132

SITE DESCRIPTION:

Located in Saddle Bronc Acres, Block 1, Lot 7, at 1290 Skyline Drive, the septic system will serve a four bedroom residence (3490sf.) situated in an area with shallow Type-III soil as described in the Soil Evaluation Report. 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 or 4 inch SCH-40 pipe discharges from the residence into an existing Norweco Model 960-600 gpd aerobic treatment plant (#84817) containing a 400 gal. pretreatment chamber and a 825 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP Norweco HA31 submersible well pump. The well pump is activated by mercury floats and a timer set to cycle eight times per day with a tank operating level from 50-70 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron Arkal 1" Super Filter, disk filter " filter then through a 1" SCH-40 manifold to a new 2092sf. 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 model PR30MF 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 provide to periodically field flush the system by cycling a 1" ball valve. Solids caught in the disc filter are flushed each cycle back to the trash tank. Agricultural Products, Inc. (Model #VBK-1) 1" PVC vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the new field area must be scarified and built up with two inches of Type II or III soil. Drip tubing will be laid and the entire field area will be capped with 6" of loamy soil (Type 2 or 3 - ***NOT SAND)***. ***A minimum of 12" of soil required between drip lines and aerobic tank/rock*** . The field area will be sodded with grass with hearty grass such as Bermuda, St. Augustine, etc. prior to system startup.

VOID

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:

Q = 300 gallons per day - 4 bedroom residence 3490 sf. (Table III)
Pretreatment tank size: 400 Gal

VOID

REVISED
9:58 am, Nov 19, 2024

Plant Size: Existing Norweco Model 960 - 600 GPD (TCEQ Approved) (#84817)
Pump tank size: 825 Gal
Reserve capacity after High Level: 100 gal. (1/3 day usage)
Application Rate: Ra = 0.2 gal/sf
Total absorption area: Q/Ra = 300 GPD/0.20 = 1500 sf. (Actual 2092 sf.)
Total linear feet drip tubing: 1046' ***Netifim Bioline*** drip tubing .61 GPH
Pump requirement: 523 emitters @ 0.61 gph @ 20 psi = 5.317 gpm
Pump:0.5 HP Norweco HA31 submersible pump or equivalent.
Dosing volume: 50-70 gal.
Pump Tank Calculations: 825 Gal (13.5-19 gal/in.)
Volume below working level = 12"= 207 gal
Working level = 300 gal = 19"
Reserve Requirement = 1/3 day = 100 gal. = 8"

MINIMUM SCOUR VELOCITY (**MSV**) > 2 FPS
IN DRIP TUBING W/ NOM. DIA. 0.55" ID
MSV = 2 FPS (Πd↑2)/4*7.48 gal/cf*60 sec/min
MSV = 2(3.14159((.55/12)↑2)/4)*7.48*60
MSV = 1.5 gpm MIN FLOW RATE x 4 lines = 6 gpm

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID
MSV = 2 FPS (Πd↑2)/4*7.48 gal/cf*60 sec/min
MSV = 2(3.14159((1.049/12)↑2)/4)*7.48*60
MSV = 5.4 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. Drip tubing 0.61 gph drip tubing to be used in field. The manifold trench should be kept shallow to prevent interconnection of the trenches.

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

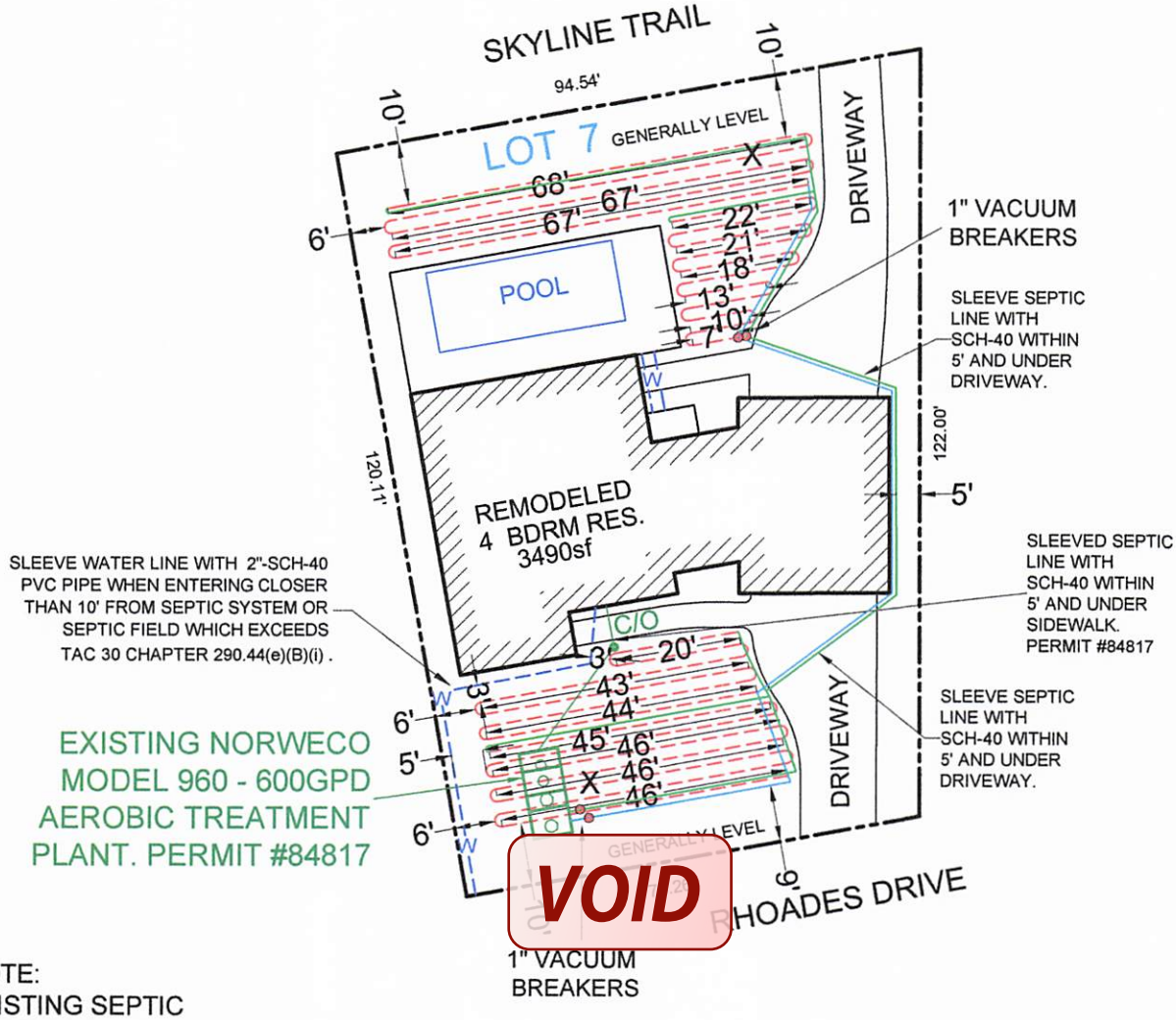
11/18/24

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

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

REVISED
9:58 am, Nov 19, 2024

VOID



VOID

NOTE:
EXISTING SEPTIC FIELD TO BE ABANDONED

INSTALL 2092sf OF FIELD USING 1046' 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

STATE OF TEXAS
GREG W. JOHNSON
67567
REGISTERED
PROFESSIONAL ENGINEER

OWNER: RAYMOND & KAY KEENE				DRAWN BY: EJS III	
STREET ADDRESS: 1290 SKYLINE DRIVE					
LEGAL DESC: SADDLE BRONC ACRES		UNIT/SECTION/PHASE:	BLOCK: 1	LOT: 7	
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=30'	DATE: 11/14/2023	REVISED: 11/16/2024		

From: Ritzen, Brenda
To: "info@myparkerhomes.com"; "(gregjohnsonpe@yahoo.com)"
Subject: Permit 116975
Date: Friday, December 15, 2023 4:18:00 PM
Attachments: image001.png

Re: Raymond & Kay Keene
Saddle Bronc Acres Lot 7 Block 1
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:

1. **A minimum of 12 inches of soil is required between the bottom of the ATU and the drip tubing.**
2. **Submit a variance request for the close proximity of the water line which enters the side of the house. Include the separation distance from this water line to the drip field.**
3. **There is also a water line near the clean out that is not shown on the design. Show this water line on the design and its separation distance to the system.**
4. **Revise as needed and resubmit.**

Thank you,

COMAL COUNTY TEXAS

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

VOID

DRIP TUBING SYSTEM
DESIGNED FOR:
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c/o P.O. BOX 312611
NEW BRAUNFELS, TEXAS 78132

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PROPOSED SYSTEM:
A 3 or 4 inch SCH-40 pipe discharges from the residence into an existing Norweco Model 960-600 gpd aerobic treatment plant (#84817) containing a 400 gal. pretreatment chamber and a 825 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP Norweco HA31 submersible well pump. The well pump is activated by mercury floats and a timer set to cycle eight times per day with a tank operating level from 50-70 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron Arkal 1" Super Filter, disk filter " filter then through a 1" SCH-40 manifold to a new 2370sf. 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 Model PMR30MF 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 provide to periodically field flush the system by cycling a 1" ball valve. Solids caught in the disc filter are flushed each cycle back to the trash tank. Agricultural Products, Inc. (Model #VBK-1) 1" PVC vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the new field area must be scarified and built up with two inches of Type II or III soil. Drip tubing will be laid and the entire field area will be capped with 6" of loamy soil (Type 2 or 3 - ***NOT SAND)***. ***A minimum of 12" of soil required between aerobic tank and drip lines***. The field area will be sodded with grass with hearty grass such as Bermuda, St. Augustine, etc. prior to system startup.

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Application Rate: Ra = 0.2 gal/sf
Total absorption area: Q/Ra = 300 GPD/0.20 = 1500 sf. (Actual 2370 sf.)
Total linear feet drip tubing: 1185' ***Netifim Bioline*** drip tubing .61 GPH
Pump requirement: 593 emitters @ 0.61 gph @ 20 psi = 6.029 gpm
Pump:0.5 HP Norweco HA31 submersible pump or equivalent.
Dosing volume: 50-70 gal.
Pump Tank Calculations: 825 Gal (13.5-19 gal/in.)
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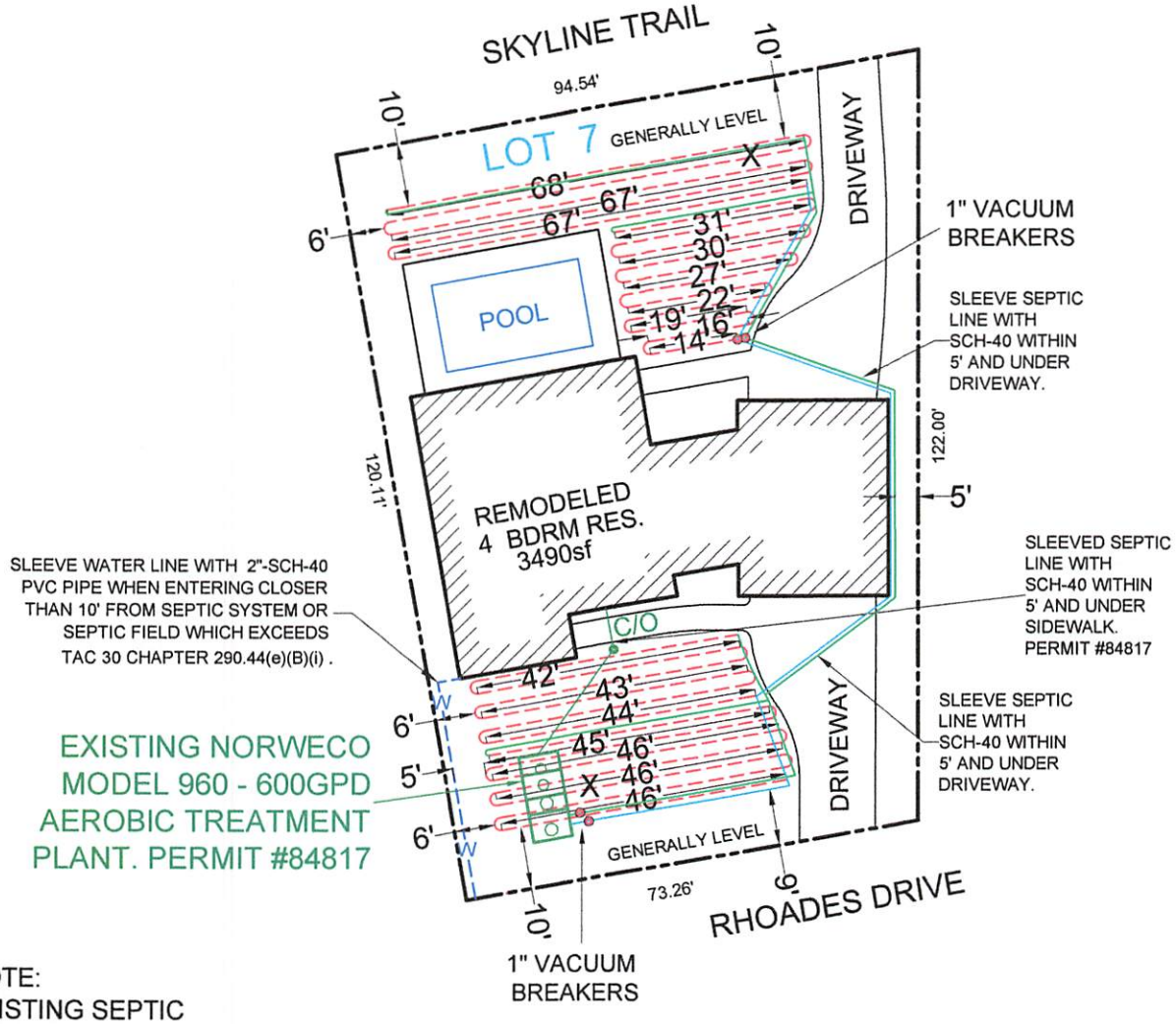
Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission on Environmental Quality (Effective December 29, 2016)

11/14/2013

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

STATE OF TEXAS
GREG W. JOHNSON
67587
REGISTERED
PROFESSIONAL ENGINEER

VOID



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STREET ADDRESS: 1290 SKYLINE DRIVE					
LEGAL DESC: SADDLE BRONC ACRES		UNIT/SECTION/PHASE:	BLOCK: 1	LOT: 7	
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=30'	DATE: 11/14/2023	REVISED:		

119084-cd
TICOR TITLE
GF# N.B.

Doc# 200306035017

9/x

WARRANTY DEED WITH VENDOR'S LIEN

Date: September 12, 2003 to be effective September 12, 2003

Grantor: MARGARET GENELLA KEENE PACE, ROSE RENEA OSBORN KEENE GALLAGHER. JOHN RAYMOND OSBORN KEENE, LETA DENISE KEENE SCHROEDER, BEVERLY JEAN ROY GRAUE and DAVID WAYNE ROY, being the surviving heirs of RAYMOND B. KEENE and wife, ROSA B. KEENE, both deceased, all herein joined by their respective spouses, pro forma

Grantor's Mailing Address (including county):

Grantee: RAYMOND KEENE and KAY KEENE

Grantee's Mailing Address (including county):

6640 Old Mexia Road, Waco,
_____, County, Texas 76705

Consideration:

TEN AND NO/100 DOLLAR ($10.00) and other valuable consideration and a note of even date that is in the principal amount of **EIGHTY-FIVE THOUSAND AND NO/100 DOLLARS ($85,000.00)**, executed by Grantees, payable to the order of **THE FIRST NATIONAL BANK OF CENTRAL TEXAS.** The note is secured by a vendor's lien retained in favor of **THE FIRST NATIONAL BANK OF CENTRAL TEXAS** in this deed and by a deed of trust of even date from Grantee to CLYDE D. MARTIN, Trustee.

Property (including any improvements):

All that certain tract of parcel of land lying and being situated in Comal County, Texas, being known and designated as Lot 7, Block 1, SADDLE BRONC ACRES, according to map or plat recorded in Vol. 119, Page 466, Deed Records, Comal County, Texas.

Reservations from and Exceptions to Conveyance and Warranty:

Current ad valorem taxes on said property having been prorated, the payment of the same are hereby assumed by Grantee.

This conveyance is made and accepted subject to any and all restrictions, covenants, conditions, reservations, claims of interests, easements, rights of ways, and agreements, if any, relating to the property to the extent that the same may still be in force and effect shown of record in the Office of the County Clerk of Comal County, Texas; all zoning laws, regulations, ordinances of local, municipal, judicial, administrative, and/or other governmental authorities; any visible or apparent easements, roadways, or rights of ways on or across the property.

Grantor, for the consideration and subject to the reservations from and exceptions to conveyance and warranty, GRANTS, SELLS and CONVEYS to Grantee the property, together with all and singular the rights and appurtenances thereto in any wise belonging, to have and to hold it to Grantee, Grantee's heirs, executors, administrators, successors, or assigns forever. Grantor hereby binds Grantor and Grantor's heirs, executors, administrators, and successors to

warrant and forever defend all and singular the property to Grantee and Grantee's heirs, executors, administrators, successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the reservations from and exceptions to conveyance and warranty.

The Vendor's Liens against and superior title to the property are retained until each note described is fully paid according to its terms, at which time this deed shall be absolute.

THE NATIONAL BANK OF CENTRAL TEXAS, at Grantee's request, has paid in cash to Grantor that portion of the purchase price of the property that is evidenced by the note described. The vendor's lien and superior title to the property are retained for the benefit of THE NATIONAL BANK OF CENTRAL TEXAS and are transferred to that party without recourse on Grantor.

When the context requires, singular nouns and pronouns include the plural.

Margaret Genella Keene Pace
MARGARET GENELLA KEENE PACE

~~HAL H. PACE, SR.~~

Rose Renea Osborn Keene Gallagher
ROSE RENEA OSBORN KEENE GALLAGHER

CHARLES GALLAGHER

JOHN RAYMOND OSBORN KEENE

KAY WORLEY KEENE

LETA DENISE OSBORN KEENE SCHROEDER

KEVIN SCHROEDER

BEVERLY JEAN ROY GRAUE

GLEN GRAUE

DAVID WAYNE ROY

JENIECE ROY

STATE OF TEXAS

COUNTY OF [illegible]

This instrument was acknowledged before me on the 16 day of September, 2003, by MARGARET GENELLA KEENE PACE ~~and husband HAL H. PACE, SR.~~

Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

CONNIE DIVIN
Notary Public, State of Texas
My Commission expires
January 19, 2005

warrant and forever defend all and singular the property to Grantee and Grantee's heirs, executors, administrators, successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the reservations from and exceptions to conveyance and warranty.

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When the context requires, singular nouns and pronouns include the plural.

MARGARET GENELLA KEENE PACE

~~HAL H. PACE, SR.~~

ROSE RENEA OSBORN KEENE GALLAGHER

CHARLES GALLAGHER

JOHN RAYMOND OSBORN KEENE

KAY WORLEY KEENE

LETA DENISE OSBORN KEENE SCHROEDER

KEVIN SCHROEDER

BEVERLY JEAN ROY GRAUE

GLEN GRAUE

DAVID WAYNE ROY

JENIECE ROY

STATE OF TEXAS

COUNTY OF McLennan

This instrument was acknowledged before me on the 10th day of September, 2003, by MARGARET GENELLA KEENE PACE and husband HAL H. PACE, SR..

LAJAN COLEMAN
Notary Public
STATE OF TEXAS
My Commission
Expires 10/04/2006

Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

warrant and forever defend all and singular the property to Grantee and Grantee's heirs, executors, administrators, successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the reservations from and exceptions to conveyance and warranty.

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When the context requires, singular nouns and pronouns include the plural.

MARGARET GENELLA KEENE PACE ~~HAL H. PACE, SR.~~

ROSE RENEA OSBORN KEENE GALLAGHER CHARLES GALLAGHER

JOHN RAYMOND OSBORN KEENE KAY WORLEY KEENE

LETA DENISE OSBORN KEENE SCHROEDER KEVIN SCHROEDER

BEVERLY JEAN ROY GRAUE GLEN GRAUE

DAVID WAYNE ROY D.R. TAMMY L. ROY

STATE OF TEXAS

COUNTY OF ~~Travis~~

This instrument was acknowledged before me on the ____ day of September, 2003, by MARGARET GENELLA KEENE PACE and husband HAL H. PACE, SR..

Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

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LETA DENISE OSBORN KEENE SCHROEDER KEVIN SCHROEDER

BEVERLY JEAN ROY GRAUE GLEN GRAUE

DAVID WAYNE ROY JENIECE ROY

STATE OF TEXAS

COUNTY OF Comal

This instrument was acknowledged before me on the ____ day of September, 2003, by MARGARET GENELLA KEENE PACE and husband HAL H. PACE, SR..

Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF Hood

This instrument was acknowledged before me on the 11th day of September, 2003, by ROSE RENEA OSBORN KEENE GALLAGHER and husband CHARLES GALLAGHER.

CAROLYN HOWELL
Notary Public
State of Texas
Comm. Expires 10-25-2005

Carolyn Howell
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF [illegible]

This instrument was acknowledged before me on the [illegible] day of September, 2003, by JOHN RAYMOND OSBORN KEENE and wife KAY WORLEY KEENE.

Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF [illegible]

This instrument was acknowledged before me on the 16 day of September, 2003, by LETA DENISE OSBORN KEENE SCHROEDER and husband KEVIN SCHROEDER.

CONNIE DIVIN
Notary Public, State of Texas
My Commission expires
January 19, 2005

Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF _____

This instrument was acknowledged before me on the ____ day of September, 2003, by BEVERLY JEAN ROY GRAUE and husband GLEN GRAUE.

Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF _____

This instrument was acknowledged before me on the ____ day of September, 2003, by ROSE RENEA OSBORN KEENE GALLAGHER and husband CHARLES GALLAGHER.

_____
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF McLennan

This instrument was acknowledged before me on the 12th day of September, 2003, by JOHN RAYMOND OSBORN KEENE and wife KAY WORLEY KEENE.

LAJAN COLEMAN
Notary Public
STATE OF TEXAS
My Commission
Expires 10/04/2006

_____
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF _____

This instrument was acknowledged before me on the ____ day of September, 2003, by LETA DENISE OSBORN KEENE SCHROEDER and husband KEVIN SCHROEDER.

_____
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF _____

This instrument was acknowledged before me on the ____ day of September, 2003, by BEVERLY JEAN ROY GRAUE and husband GLEN GRAUE.

_____
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF _____

This instrument was acknowledged before me on the ____ day of September, 2003, by ROSE RENEA OSBORN KEENE GALLAGHER and husband CHARLES GALLAGHER.

_____
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF _____

This instrument was acknowledged before me on the ____ day of September, 2003, by JOHN RAYMOND OSBORN KEENE and wife KAY WORLEY KEENE.

_____
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF _____

This instrument was acknowledged before me on the ____ day of September, 2003, by LETA DENISE OSBORN KEENE SCHROEDER and husband KEVIN SCHROEDER.

_____
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF Coma

This instrument was acknowledged before me on the 11th day of September, 2003, by BEVERLY JEAN ROY GRAUE and husband GLEN GRAUE.

BARBARA J BARNETT
NOTARY PUBLIC STATE OF TEXAS
COMMISSION EXPIRES:
AUGUST 28, 2006

Barbara J Barnett
Notary Public, State of Texas
Notary's Printed Name:
My Commission Expires:

STATE OF TEXAS

COUNTY OF Travis

This instrument was acknowledged before me on the 17 day of September, 2003, by DAVID WAYNE ROY and wife TAMMY ROY

Doryne Valentine
Notary Public, State of Texas
Notary's Printed Name: Doryne Valentine
My Commission Expires 3-10-05

DORYNE VALENTINE
NOTARY PUBLIC
State of Texas
Comm. Exp. 03-10-2005

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09/19/2003 10:50:24 AM
Filed & Recorded in
Official Records of
COMAL COUNTY
JOY STREATER
COUNTY CLERK
Fees $30.00

After Recording Return To:

Prepared in the Law Office Of:

R. Bruce Boyer
376-A Landa St.
New Braunfels, Texas 78130

Doc# 200306035017

RECEIVED
By Kathy Griffin at 2:02 pm, Dec 05, 2023

COMAL COUNTY
ENGINEER'S OFFICE

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

Date Received	Initials	Permit Number
		116975

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

- [X] Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate
- [X] Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer
- [X] 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.
- [X] Required Permit Fee - See Attached Fee Schedule
- [X] Copy of Recorded Deed
- [X] Surface Application/Aerobic Treatment System
  - [X] Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public
  - [X] 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

12/05/2023

Date

___ COMPLETE APPLICATION

Check No. _____ Receipt No._____

INCOMPLETE APPLICATION
___ (Missing Items Circled, Application Refeused)

Revised: September 2019