

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
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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)				

3/18/24 CA: Revisions needed for waterline and stub out location lines and define adequate protection for where waterline and distribution lines cross lines sleeved per plan system operational cover all Distribution lines sleeved where waterline crossing revision to continuous flush needed 4/24/24 CA: System covered. Seed present design calls for sod. Need revision for seeding or need sod present as per design

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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.		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						

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No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
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: 115841
Issued This Date: 03/01/2023
This permit is hereby given to: THOMAS O. PERSYN & TAMI L. GUINN

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

108 CANTEEN
CANYON LAKE, TX 78133

Subdivision: WESTHAVEN
Unit: 23
Lot: 4R
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.



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 January 20, 2023

Permit Number 115841

1. APPLICANT / AGENT INFORMATION

Owner Name THOMAS O. PERSYN & TAMI L. GUINN
Mailing Address c/o 400 N. 1604 E., SUITE 250
City, State, Zip SAN ANTONIO, TX 78232
Phone # (210) 408-9107
Email sima@wd-homes.com

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

2. LOCATION

Subdivision Name WESTHAVEN Unit 23 Lot 4R Block I
Survey Name / Abstract Number _____ Acreage _____
Address 108 CANTEEN 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 5
Indicate Sq Ft of Living Area 3649

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 Public 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.

Thomas O. Persyn
Signature of Owner

1-25-23
1-25-23
Date

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

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

Tank Size(s) (Gallons) PRO-FLO 5060 Absorption/Application Area (Sq Ft) 3000

Gallons Per Day (As Per TCEQ Table III) 360

(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 [X] 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 [X] 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? [X] Yes [] No

Is there an existing TCEQ approval CZP for the property? [] Yes [X] No

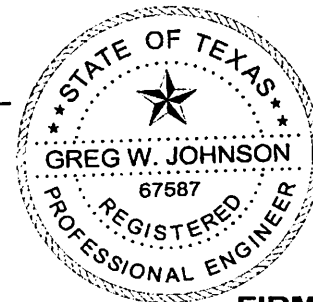
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? [] Yes [X] 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 [X] 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 (Handwritten signature)

Date January 20, 2023

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 (OSSFs). 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 OSSFs 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):

2 UNIT/PHASE/SECTION 1 BLOCK 4R LOT _____ WESTHAVEN _____ SUBDIVISION

IF NOT IN SUBDIVISION: _____ ACREAGE _____ SURVEY

The property is owned by (insert owner's full name): THOMAS O. PERSYN & TAMI L. GUINN

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 25th DAY OF JANUARY 2023

Thomas O. Persyn
Tami L. Guinn

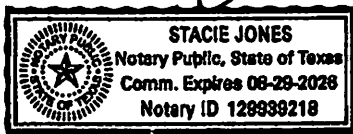
Thomas O Persyn
Tami L. Guinn

Owner(s) signature(s)

Owner (s) Printed name (s)

Thomas O. Persyn & Tami L. Guinn SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 25th DAY OF

Stacie Jones
Notary Public Signature



Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
02/13/2023 12:19:59 PM
LAURA 1 Pages(s)
202306004499





MJ Central Texas Septic, LLC - DBA MJ SEPTIC

27552 Old Blanco Road
San Antonio, Texas 78260
(210) 875-3625

mjseptic@mjseptic.com (email)
www.mjseptic.com (website)

Residential Aerobic Maintenance Contract

Licensed by T.C.E.Q. Michael J. Long, MP 0001294

PROPERTY ADDRESS: 108 CANTEEN - WESTHAVEN, UNIT 2, BLOCK 1, LOT 4R

TERMS OF PAYMENT: *Payment is due in full for the maintenance contract at time of signing. A credit card will be required at time of booking any service for parts, repairs, cleaning/pumping, service calls, red lights, etc. unless otherwise specifically noted. MJ will not perform any repairs or pumping unless we have a credit card on file.* MJ Septic no longer accepts payment onsite, whether it be a check or credit card and we no longer offer billing/invoicing for future payments; this is a strict office policy, no exceptions.

1 YEAR	2 YEAR	3 YEAR	2 YEAR INITIAL	Additional Information
\$285	\$530	\$675	Included with Installation	Homeowner(s) are NOT required to be present at inspections. Please note, clients will receive an emailed notice 5-7 business days prior to your scheduled inspection, this is your only notification we will send. A door hanger will be left if no one is home. Inspection reports are emailed/mailed within a few business days to the email/mailling address of record, please check your spam folder. If you have not received it after 72 hours please email or call our office.

- **MAINTENANCE TIPS/SEPTIC GUIDE:** Please retain the attached Maintenance Tips/Septic Guide for future reference. Please note our business hours are Monday - Friday 8am to 5pm, should you have an emergency during non-business hours, please look this over and follow the necessary steps until you can reach us during normal business hours!
- If you are unable to reach us during business hours, you can leave a voicemail or send an email (we attempt to respond to emails during weekends and holidays as best as we can!)

Acceptance of Maintenance Contract: The above prices, specifications, and conditions are satisfactory and are hereby accepted. MJ Septic is authorized to enter property to perform routine maintenance inspections as agreed. I have read and agreed to the maintenance contract guidelines stated above and have also read and agreed to comply with the Maintenance Tips/Septic Guide. MJ Septic reserves the right to make amendments to this document at any time and the homeowner will be responsible for signing an updated version for office and county records.

Please note, clients will receive an emailed notice 5-7 business days prior to your scheduled inspection, this is your only notification we will send. (MJ Septic will assess a \$75 re inspection/missed inspection fee if we are not granted access to complete your inspection on the date assigned, aggressive dogs, etc)

Property Address: 108 CANTEEN City: CANYON LAKE, TX Zip Code: 78133

Client Name: THOMAS O. PERSYN & TAMI L. GUINN

Contract Start Date: _____ Contract End Date: _____ Total Fee Paid: _____

Permitting Authority: _____ Subdivision Gate Code: #3791 Property Gate Code: _____

Subdivision: WESTHAVEN Number in Household: _____ Aggressive Dogs: _____

Email Address: _____ Email Address: _____

Cell Phone (his/hers): _____ Cell Phone (his/hers): _____ Home Phone: _____

Client Approval Signature: Thomas Persyn Date of Client Acceptance: 1/25/23

MJ Central Texas Septic, LLC Authorized Signature: Stephanie E. Perez Date of MJ Approval: _____



MJ Central Texas Septic, LLC - DBA MJ SEPTIC

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PROPERTY ADDRESS: 108 CANTEEN - WESTHAVEN, UNIT 2, BLOCK 1, LOT 4R

The Texas Commission on Environmental Quality (TCEQ) requires all ATU's to be checked and maintained every four months for the life of the unit (*some permitting authorities may stipulate this requirement, after the first two years after installation; call your county to inquire*). Upon expiration of this contract, MJ Septic will offer a continuation of your maintenance contract to cover labor and routine maintenance/reports. Lab testing, if required, for coliform, TSS, BOD etc. are NOT included in this policy and applicable fees are the owner's responsibility. MJ Septic will inspect and service your ATU once every 4 months for the duration of your 2-year initial contract. For a new single-family dwelling, this is the date of installation, required by state guidelines dated June 13, 2001. For an existing single-family dwelling, this is the date the notice of approval is issued by your permitting authority. The effective date of this maintenance contract shall be the date the LTO (license to operate) is issued.

MJ Septic will address all major concerns/complaints (excluding weekends & holidays) within 72 hours from the initial point of contact with the homeowner(s). Please note our business hours are Monday - Friday 8am to 5pm

- **INSPECTIONS:** an inspection every four months (three times annually) which includes inspecting/servicing the mechanical, electrical, and other applicable components to ensure proper function. The annual fee does not include any parts, cleaning/pumping, chlorine/bleach (tablets or liquid), additional service calls or additional testing that may be required by any regulating authority. If for any reason, we are unable to obtain access to your property or system to perform a service check, you may be charged a **\$75 service call for re-scheduling**. It is very important that we always have full access to your system, including all gate codes, combination locks etc. to inspect your system.
- **SERVICE CALLS:** If a service call is required by homeowner/renter between regular inspections, a **service call fee of \$75 (not including parts and/or cleaning/pumping) will be assessed**. We may waive this fee at our discretion. These calls include but are not limited to the following: red light alarms, high water alarms, chlorinator checks, disconnected airlines, timer adjustments, spray head adjustments and system power failure.
- **REPAIRS:** If repairs or replacement of parts are needed during routine inspection, we will attempt to contact the homeowner for approval to make onsite repairs. If we are unable to repair/replace parts onsite, the client will be notified via email and/or USPS that repairs/replacement of parts is needed. All MAJOR part replacements come with a 2-year warranty (see notes below). **There will be a \$75 warranty credit fee assessed on all parts. Warranted items will only be honored when a valid maintenance contract is in effect with MJ Septic. If the contract has a lapse in time, ALL WARRANTED items are VOIDED.**
For ATU's under initial installation warranty (2 years from initial installation date) if warranted items are required to be replaced within 30 days of installation, part will be replaced with no fees, **after 30 days there will be a \$75 warranty credit fee assessed on all parts. Warranted items will only be honored when a valid maintenance contract is in place with MJ Septic.**
- **CLEANING/PUMPING:** The cleaning/pumping of your ATU is not included in your maintenance contract. We always recommend pumping between 10-12" of sludge. We determine this by gathering 3-4 different readings out of your pump tank with a sludge judge. A few other factors that *may* determine pumping is necessary even if your sludge reading is less than 10-12". **A typical/average household will need to have their system pumped every 2-5 years; this all depends on usage and will vary per household**



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PROPERTY ADDRESS: 108 CANTEEN - WESTHAVEN, UNIT 2, BLOCK 1, LOT 4R

- **CHLORINE SUPPLY:** *The property owner is responsible for maintaining their own chlorine supply.* TCEQ regulation requires proper chlorination. For liquid chlorinators, homeowners are to add 2-3 gallons of liquid chlorine/bleach per month. (if the chlorinator is completely empty, DO NOT add more than 3 ½-4 gallons of liquid chlorine/bleach at a time) For tablet chlorinators, homeowners can purchase Calcium Hypochlorite tablets typically purchased at a local Home Depot or Lowe's. **DO NOT USE POOL TABLETS** (this can cause a dangerous volatile chemical reaction)
- **TRANSFER OF MAINTENANCE CONTRACT/PROPERTY OWNERSHIP:** The fee of this maintenance contract is non-refundable, however is fully transferable to the new owner(s). If this policy is sold within the contract period, the signing party is responsible for all repairs unless the new homeowner(s) information is provided before repairs are made and the transfer contract is signed (by the new homeowner) and returned to us. The new homeowner(s) will be emailed a copy of the powerpoint orientation, if it was an MJ Septic installation, once the signed contract is received on file with our office.
RENTAL HOMES: The PROPERTY OWNER is responsible for all fees associated with this contract. Renters will be required to have a walk-through orientation during their first visit to ensure proper usage, etc.
- **ALTERATIONS/MODIFICATIONS TO THE SYSTEM:** Do not allow alteration to any part of the system or sprinkler head locations. Alterations would put the system out of county/code compliance and would cause the property owner additional expense to bring the system back into compliance. Any use of another company to make repairs to the system will void any warranties and be considered as a breach of this maintenance contract. If a client chooses to purchase and use their own parts, MJ Septic will not install nor work on these parts. Adding pools, decks, sport courts, outdoor kitchens, sheds etc. without proper septic design and county permitting is not acceptable. You must have a septic designer redesign your septic system and have permitting authority's approval prior to any additions being made. MJ Septic is not liable for any fines you may incur from illegal modifications.
- **WARRANTY VIOLATIONS:** Violations of the warranty include but are not limited to the following: turning off your system at any time, disconnecting the alarm; restricting airflow to the air compressor, overloading the system above its daily rated capacity, introducing excessive amounts of harmful matter (including harsh chemicals, cleaners, antibiotics, etc.) into the system or any other harmful usage of your OSSF/ATU. Refusing to clean/pump out septic when recommended and/or replacing necessary parts as needed. Necessary treatment of ants. Homeowners must keep grass, weeds and plants trimmed and clear of tank access points, control panel, air compressor, etc. Moving sprinkler lines without proper documentation, etc. Building over septic tanks, lids, etc. Adding pools, decks, sport courts, outdoor kitchens, sheds etc. without proper septic design and county permitting is not acceptable. You must have a septic designer redesign your septic system and have permitting authority's approval prior to any additions being made. MJ Septic is not liable for any fines you may incur from illegal modifications.



Maintenance Tips/Septic Guide

27552 Old Blanco Road
San Antonio, Texas 78260
(210) 875-3625
mjseptic@mjseptic.com
www.mjseptic.com

To keep your system functioning properly, regular maintenance is required. No matter how well the system is maintained or how well your aerobic system is designed and household usage, there will be parts that need to be replaced. Some are less expensive (and more common) like diffuser bars (if required, not all brands use diffusers), filters, sprinkler heads, airline, float switches, timers, audio and visual alarms, etc. Some are more expensive like sprinkler pumps, air compressors and septic tank cleanings, etc. With owning an aerobic system, you should expect to have parts replaced and it needing to be cleaned/pumped out. The life span of each part of your system will vary depending upon how many people use your system, how much water is used, what types of food you eat, what medicines are taken, the type of cleaning chemicals being used in the household, what you flush down the commode and of course the regular life expectancy for each functioning part, etc.

Some of the items checked during routine inspections that may need to be replaced or repaired according to their life span. These items include, but are not limited to: air compressor (aerator), a/c filters, filter pads, diffuser bars, sprinkler pumps (irrigation pumps), control panels, electrical circuit boards, float switches, timers, audio alarms, visual alarms, airline, photocell, toggle switches, wires, junction boxes, risers and/or lids, sprinkler heads, chlorinators, etc.

Below are some recommendations that will help you keep maintenance costs down and will help your aerobic system function properly.

- **RED LIGHT ALARMS:** if your alarm turns on, don't be alarmed (it usually isn't an emergency) Please call our office and schedule a service call with our office. If we are closed (after hours, weekends or holidays), please leave (1) voicemail at (210) 875-3625. You may also send a text to this number. You may email us to leave a request at mjseptic@mjseptic.com if you are unable to call or text. We will make a work order for the next available business day. During this time, you as the homeowner need to reduce all non-essential water usage. Don't wait days to report red light alarms! Please note, in extreme weather conditions, excessive heavy rains can and will cause your septic alarm and sprinkler heads to discharge, this is normal, the water is being relieved from the tank. If your alarm light stays on well after the rains have ceased, please call us to get a technician out to your property.
- **POWER:** In the event of a red-light alarm or at any other time NEVER shut off the power to your system!
- **IRRIGATION SYSTEMS (lawn care) & ALTERATIONS TO THE SYSTEM:** Avoid spraying your irrigation system in the same areas as your septic spray areas. This will cause over saturation to the lawn. Homeowners, landscapers, irrigation and pool companies should NEVER replace or tamper with your aerobic system, including the spray heads. Doing so will void any warranties (if applicable) and may result in additional costs to the homeowner for necessary repairs to bring the system back into compliance. For any changes wanted or needed for swimming pools, decks, sport courts, patios or irrigation systems, it is the homeowner's responsibility to call MJ Septic, LLC at (210) 875-3625 to assist in taking the necessary measures to have alterations made. This usually requires the system to be redesigned by one of our septic designers and re-permitted with your respective county. Do not build over any part of the aerobic system (the sprinklers can only be applied to natural vegetation surfaces!) Do not landscape over any part of the aerobic system (trees, plants, flowers, etc.) Do not allow ants to mound by any part of the aerobic system. Ant killers can be used to treat if mounds occur. (Ants will ruin electrical components and void any warranties if applicable) Keep all vegetation mowed and trimmed around the entire system, including the spray heads & spray area. If the technician cannot access the system due to overgrown grass, weeds, bushes, etc. there will be a service call charge assessed to return for inspection.
- **CHLORINE (tablets & liquid):** Never store your tablets near water heaters or in your water heater closet. Keep chlorine away from gas and electricity. It is always best to store it in a cool, dry and well-ventilated area.
**** For tablet chlorinators:** use only chlorine that is designed to treat wastewater! Calcium Hypochlorite tablets are available at your local Home Depot or Lowe's. We do not sell them. **NEVER USE SWIMMING POOL TABLETS!** (mixing pool tablets with wastewater tablets could cause a dangerous volatile reaction. When the chlorinator is completely empty, do not add more than 4-5 tablets at a time to prevent the chlorinator from clogging.
**** For liquid chlorinators:** you may use liquid chlorine/bleach (same bleach used to wash whites) When the chlorinator is completely empty, add no more than 3 ½ gallons of liquid chlorine bleach at a time. We recommend 2-3 gallons monthly (this will vary depending on how much water is used in the home per month) Do not tamper with chlorinators! This will void any warranties (if applicable).
- **MISC INFO I:** An aerobic system should not be treated as a city sewer. Economy in the use of water helps prevent overloading the system. Leaky faucets, running commodes, etc. should be guarded against as well. Avoid doing all your laundry in the same day (you must space out 1-2 loads daily); surges of water entering the system can and will hydraulically overload the system and throw off the balance of bacteria, which will not allow your waste to break down properly.
- **MISC INFO II:** Items flushed down commodes and/or poured down the drains DO NOT disappear; they must be treated by the system! Aerobic systems are designed to treat domestic wastewater and most toilet paper (read labels). Things that can harm your system include, but are not limited to are: excessive use of garbage disposal (very light use is okay, only if necessary, otherwise it is strongly recommended against!) fat, grease, oils, too many harsh cleaners, excessive use of fabric softener, excessive use of bleach, cigarette butts, feminine wipes, baby wipes, facial wipes, cleaning wipes, any type of wipes, feminine products, paper towels, condoms, q-tips, paint and/or paint thinners, varnishes, drain cleaners, automatic toilet bowl cleaners, hair combings, pet hair, coffee grounds, fruit, fruit peels, dental floss, any type of diapers, kitty litter, gauze bandages, unused medications, etc. Items such as these even though they may say "flushable" or "septic safe" still may not be ultimately safe for your aerobic treatment unit and cannot potentially cause the homeowner additional expenses for repairs and pumping.
- **MISC INFO III:** We take sludge level readings at every routine inspection (every four months) unless the system has been shut off/power failure or the system is overflowing. We always recommend cleaning/pumping of the system when levels reach 10-12" of sludge. *A typical/average household will need to have their system cleaned/pumped every 2-5 years; this all depends on usage and WILL VARY per HOUSEHOLD! This fee is NOT included in your annual maintenance contract agreement.

**ON-SITE SEWERAGE FACILITY
SOIL EVALUATION REPORT INFORMATION**

Date Soil Survey Performed: January 19, 2023

Site Location: WESTHAVEN, UNIT 2, BLOCK 1, LOT 4R

Proposed Excavation Depth: N/A

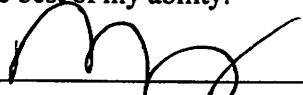
Requirements:

- 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	III	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 2"	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

01/19/2023

 Date

OSSF SOIL EVALUATION REPORT INFORMATION

Date: January 20, 2023

Applicant Information:

Name: THOMAS O. PERSYN & TAMI L. GUINN
Address: c/o 400 NORTH 1604 E. SUITE 250
City: SAN ANTONIO State: TEXAS
Zip Code: 78232 Phone: (210) 408-9107

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 4R Unit 2 Blk 1 Subd. WESTHAVEN
Street Address: 108 CANTEEN
City: CANYON LAKE Zip Code: 78133
Additional Info.: _____

Installer Information:

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

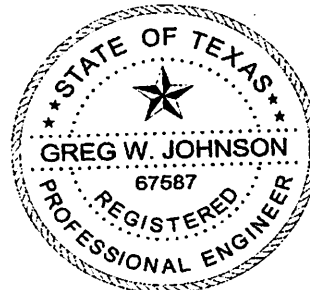
Topography: Slope within proposed disposal area: 8 %
Presence of 100 yr. Flood Zone: YES ___ NO X
Existing or proposed water well in nearby area. YES ___ NO X
Presence of adjacent ponds, streams, water impoundments YES ___ NO X
Presence of upper water shed YES ___ NO X
Organized sewage service available 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

01/20/2023
DATE



FIRM #2585

#115841

DRIP TUBING SYSTEM
DESIGNED FOR:
THOMAS O. PERSYN & TAMI L. GUINN
c/o 400 N. 1604, SUITE 250
SAN ANTONIO, TEXAS 78232

REVISED

10:38 am, Mar 26, 2024

SITE DESCRIPTION:

Located in Westhaven, Unit 2, Block 1, Lot 4R at 108 Canteen, the proposed system will serve a five bedroom residence (3649 sf.) 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 a Pro-Flo Model 5060-600 gpd aerobic treatment plant containing a 397 gal. pretreatment chamber and a 768 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP FPS submersible well pump. The well pump is activated by mercury floats and a timer set to cycle eight times per day for six minutes 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 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 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 **continuously field flush the system to the pump tank** by throttling a 1" ball valve. Solids caught in the disk 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 tubing the entire field must be scarified and built up with ten 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**). The field area will be sodded with grass with hearty grass such as Bermuda, St. Augustine, etc. prior to system startup.

Tanks must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.

DESIGN SPECIFICATIONS:

Q = 360 GPD - 5 bdrm residence (3649sf) (Table III)

Pretreatment tank size: 397 Gal

Plant Size: ProFlo Model 5060 - 600 GPD (TCEQ Approved)

Pump tank size: 768 Gal

REVISED

10:38 am, Mar 26, 2024

Reserve capacity after High Level: 120 gal. (1/3 day usage)

Application Rate: $R_a = 0.2$ gal/sf

Total absorption area: $Q/R_a = 360 \text{ GPD}/0.20 = 1800 \text{ sf}$. (Actual 3000 sf.)

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

Pump requirement: 750 emitters @ 0.61 gph @ 30 psi = 7.625 gpm

Pump: 0.5 HP FPS E SERIES 20FE05P4-2W115 submersible pump or equivalent.

Dosing volume: 50-70 gal.

Pump Tank Calculations: 768 Gal (13.3 gal/in.)

Volume below working level = 12" = 160 gal

Working level = 360 gal = 27"

Reserve Requirement = 1 day = 120 gal. = 9"

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

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

$MSV = 1.5 \text{ gpm MIN FLOW RATE} \times 4 \text{ lines} = 6 \text{ gpm}$

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

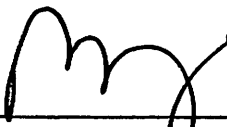
$MSV = 2(3.14159((1.049/12)^2)/4) * 7.48 * 60$

$MSV = 5.4 \text{ GPM}$

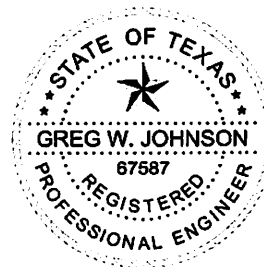
PIPE AND FITTINGS:

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)

 03/20/24

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



REVISED

12:19 pm, Mar 19, 2024

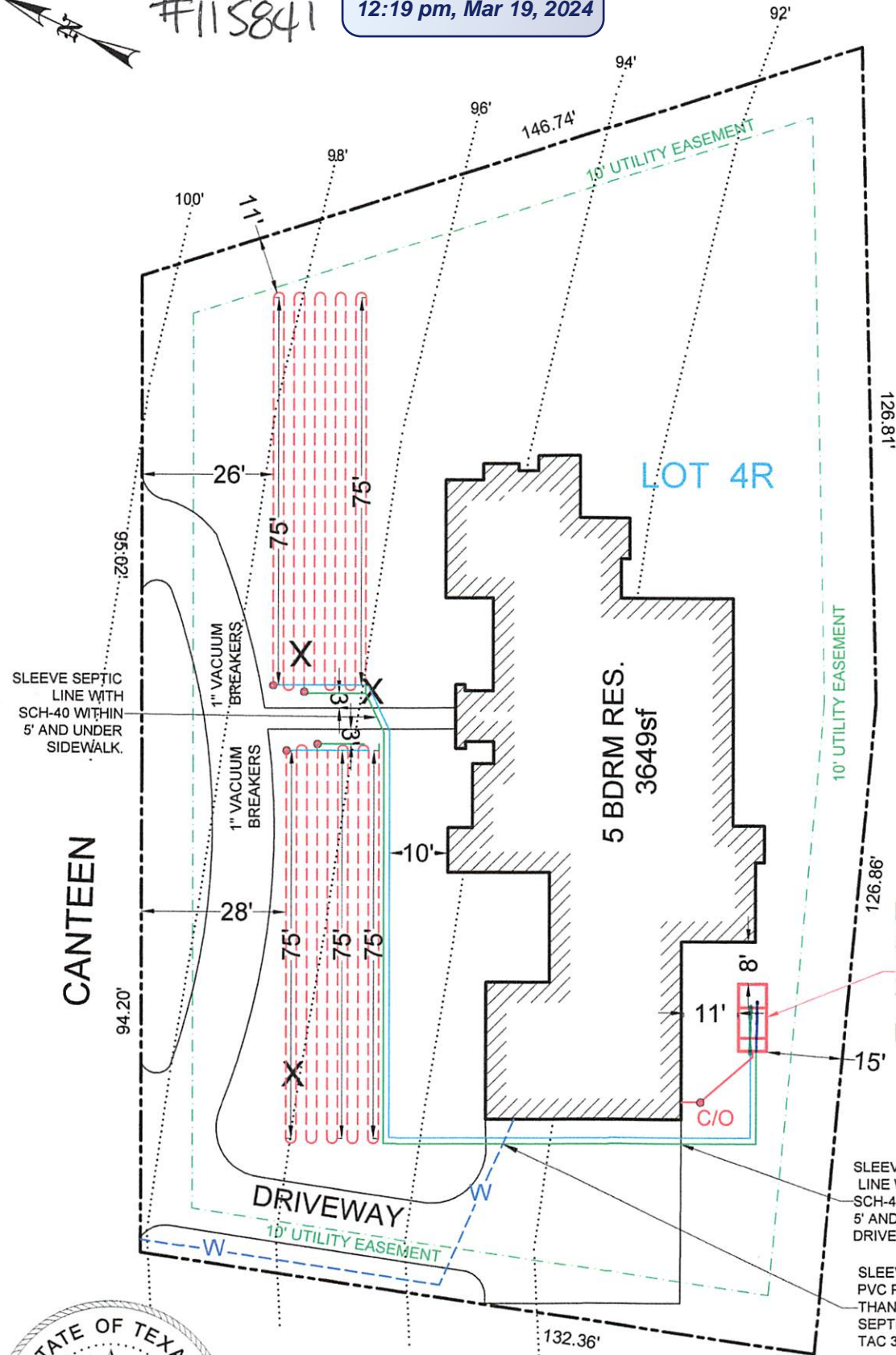
#115841



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

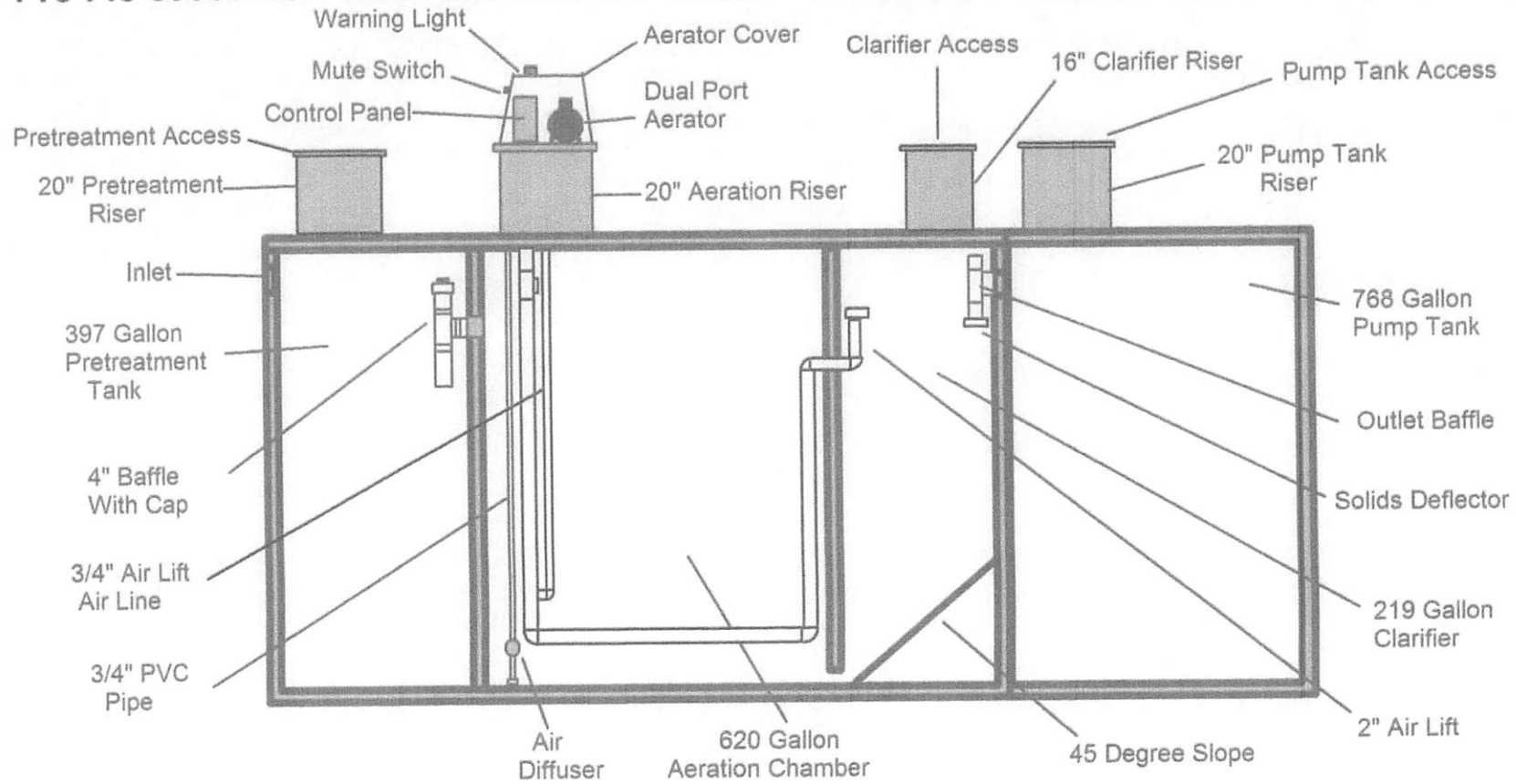


**PRO FLO
5060 HCSP
AEROBIC
TREATMENT
PLANT**



OWNER: THOMAS O. PERSYN & TAMI L. GUINN		DRAWN BY: EJS III		
STREET ADDRESS: 108 CANTEEN				
LEGAL DESC: WESTHAVEN	UNIT/SECTION/PHASE: 2	BLOCK: 1	LOT: 4R	
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=30'	DATE: 1/20/2023	REVISED: 3/19/2024	

Pro Flo 5060HCSP GPD Unit with 397 Gallon Pretreatment and 768 Gallon Pump Tank Affixed



All Gallonage Approximate
 Drawing Not to Scale
 Configuration May Vary

Note: Unit Tested Did Not Have
 Affixed Pretreatment or Pump
 Tank

Note: If the wall between the clarifier and
 aeration chamber is a drop in wall, the
 thickness shall be 2-1/2"

Overall Length - Top 159" Bottom 155"
 Overall Width - Top 68" Bottom 64"
 Height Without Risers - 71"
 Exterior Wall Thickness - 3"
 Interior Wall Thickness - Top 2" Bottom 3"
 Top & Bottom Thickness - Top 5" Bottom 3"
 Pretreatment Length - Top 29-1/4" Bottom 26-3/4"
 Aeration Length - Top 44" Bottom 43"
 Clarifier Length - Top 18-1/2" Bottom 17-1/2"
 Pump Tank Length - Top 55-1/4" Bottom 52-3/4"
 Water Level - 55"
 Air Diffuser - 27"
 Bottom of Inlet to Bottom of Tank - 60-1/2"
 Total Tank Weight (Empty) - 17,710#*
 (*actual scaled weight)



F2585
01/20/2013

Pro Flo 5060HCSP

Revised 7/19/13 5060HCSP.KEY

TANK NOTES:

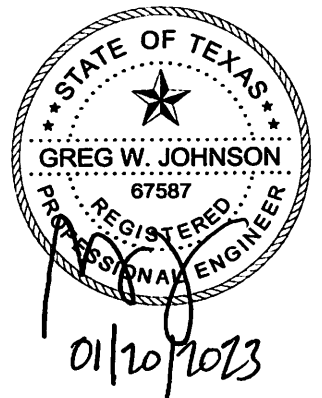
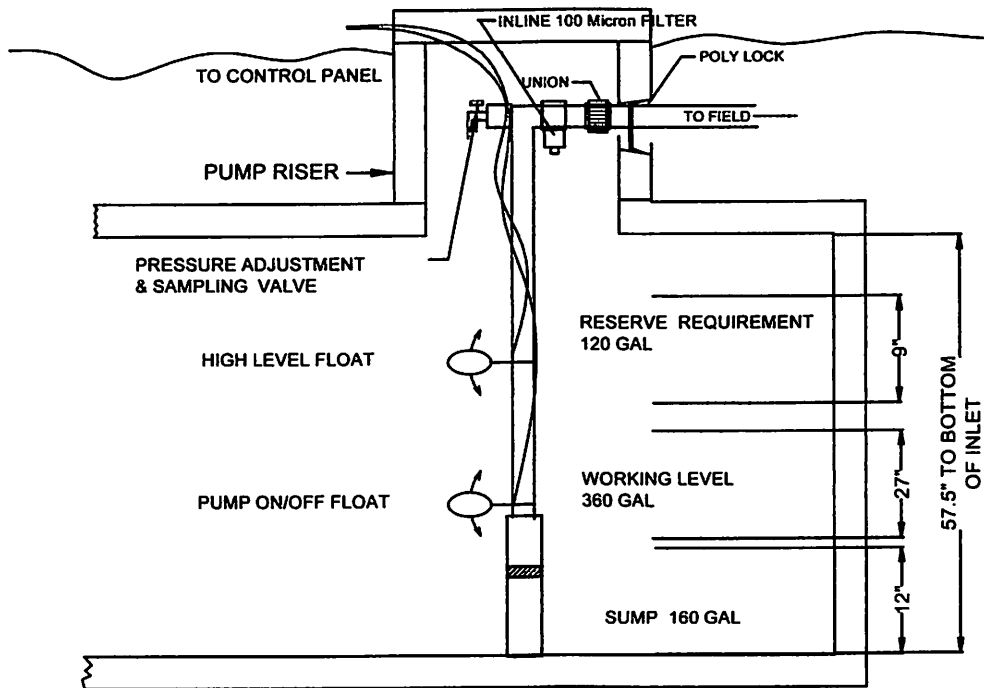
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

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

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



**TYPICAL PUMP TANK CONFIGURATION
PRO-FLO 5060 w/ 768 GAL PUMP TANK**

Arkal 1" Super Filter

Catalog No. 1102 0 _ _ _

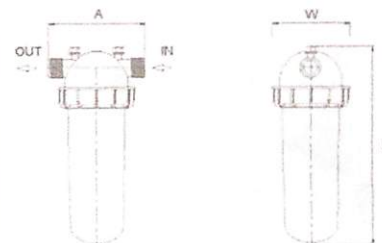
Features

- ◆ 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

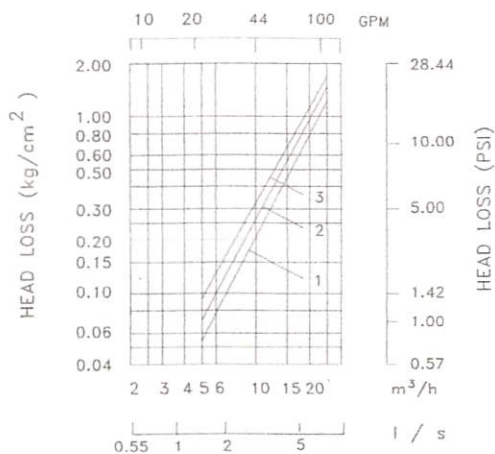
Inlet/outlet diameter	1" BSPT (male)	1" NPT (male)
	25.0 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m ³ /h (1.7 l/sec)	35 gpm
General filtration area	500 cm ²	77.5 in ²
Filtration volume	600 cm ³	37 in ³
Filter length L	340 mm	13 13/32"
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	Outlet
3/4-inch Female National Pipe Thread (FNPT)	3/4-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

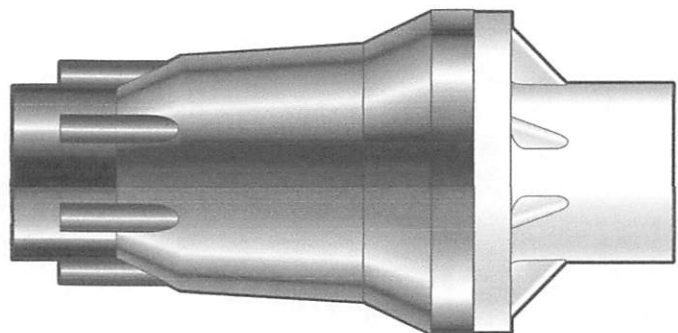
3/4" FNPT x 3/4" FNPT model (shown on right)

<i>Overall Length</i>	5.2 inches (13.1 cm)
<i>Overall Width</i>	2.5 inches (6.4 cm)

1" FNPT x 1" FNPT model

1" FBSPT x 1" FBSPT model

<i>Overall Length</i>	5.8 inches (14.6 cm)
<i>Overall Width</i>	2.5 inches (6.4 cm)



* Please consult factory for applications outside of recommended guidelines.



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

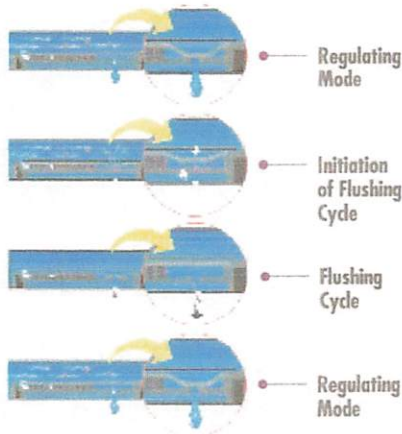
Model Numbers

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)



Bioline® Driperline

Pressure Compensating Driperline 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

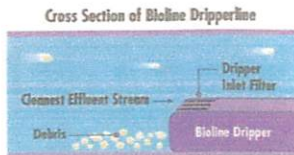
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for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

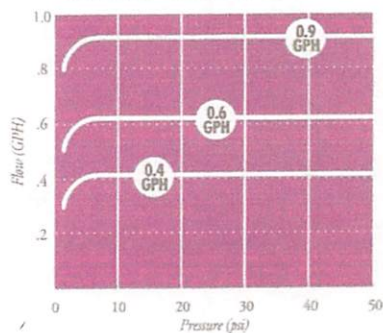
Recommended filtration: 120 mesh

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

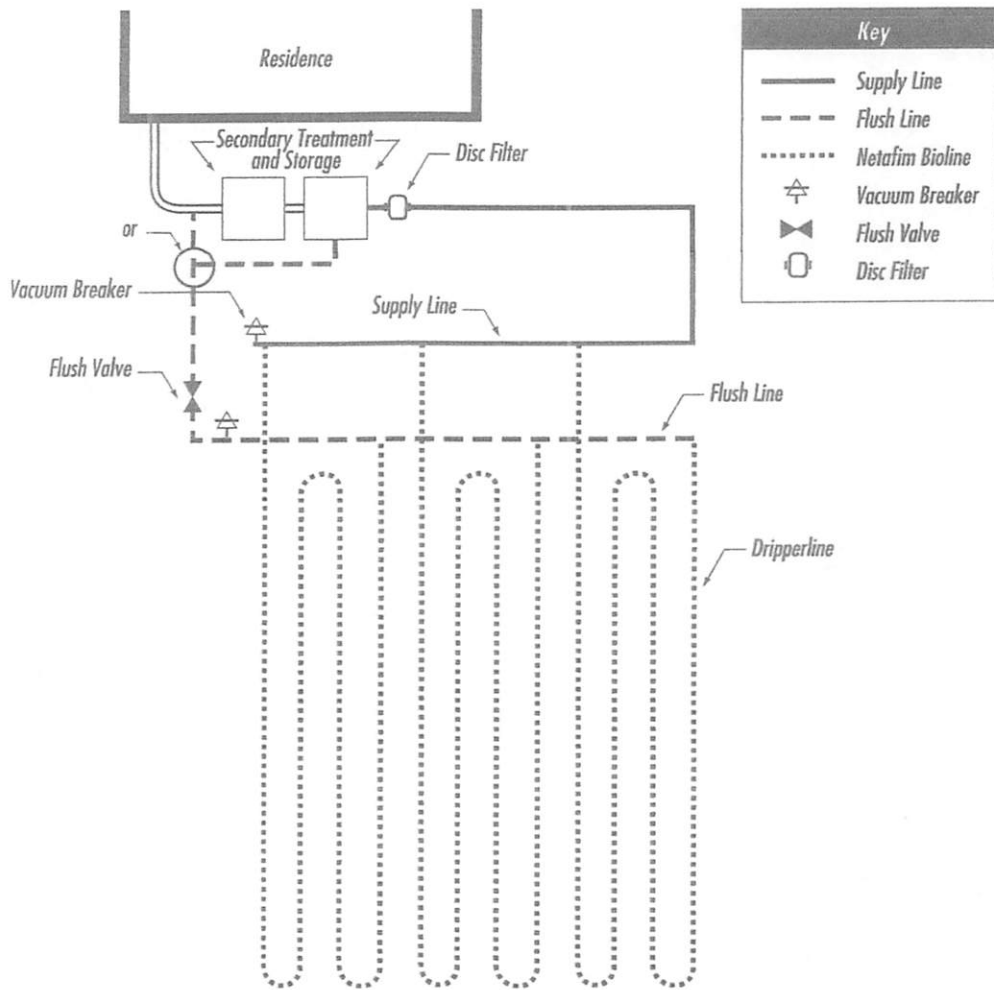
NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

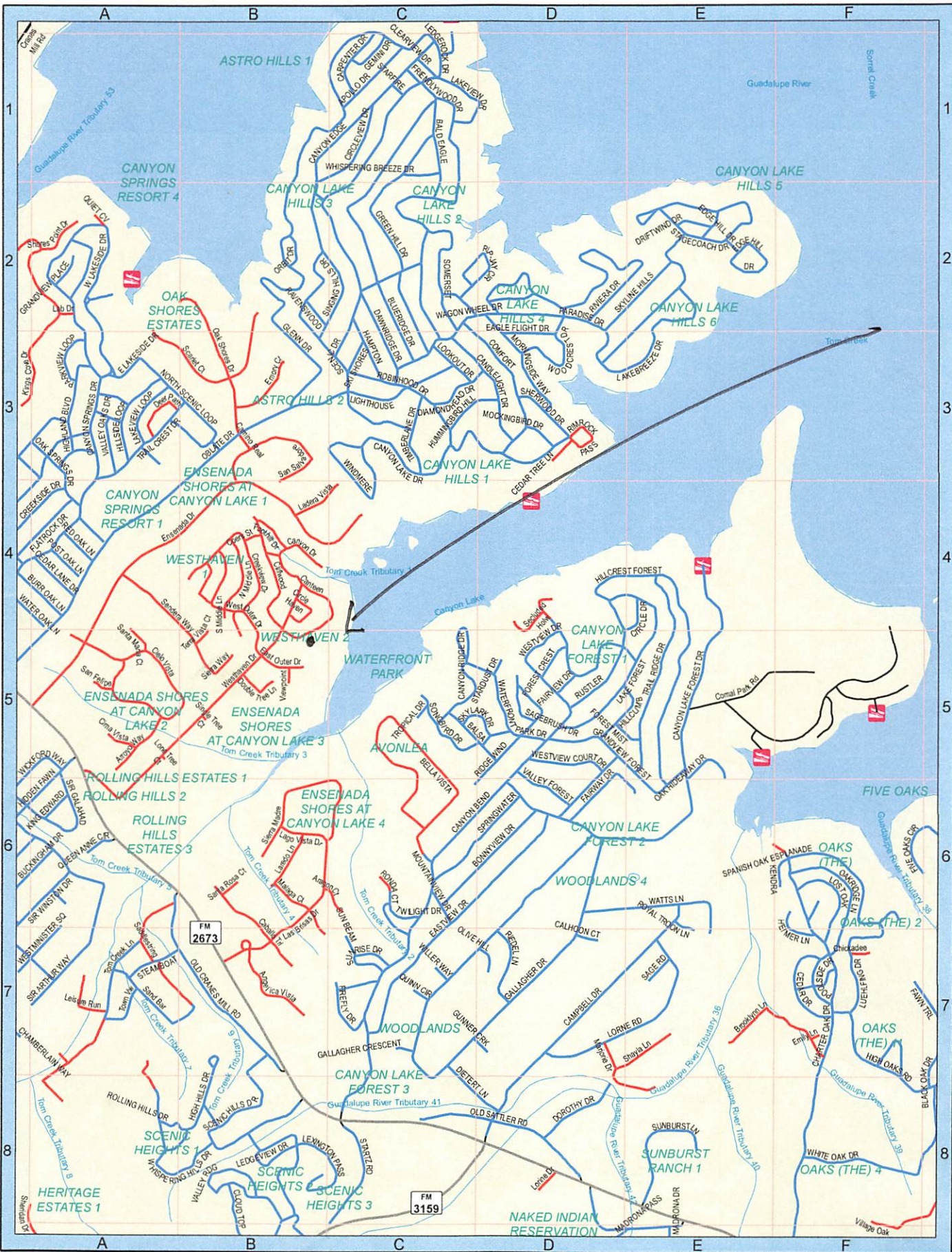
SAMPLE DESIGNS

SINGLE TRENCH LAYOUT

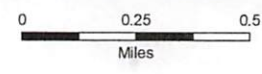
Rectangular field with supply and flush manifold on same side and in same trench;

- 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 28



From: [Ritzen, Brenda](#)
To: ["\(gregjohnsonpe@yahoo.com\)"](mailto:(gregjohnsonpe@yahoo.com))
Cc: [Olvera,Brandon](#)
Subject: RE: 108 CANTEEN - PERSYN GUINN #115841
Date: Tuesday, March 26, 2024 10:41:00 AM
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: Olvera,Brandon <Olverb@co.comal.tx.us>
Sent: Tuesday, March 26, 2024 10:23 AM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Subject: FW: 108 CANTEEN - PERSYN GUINN #115841

Brenda,
See below/attached.

Thank You,

| **Brandon Olvera** | **Designated Representative OS0034792** | Comal County |
www.cceo.org |
| 195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078
| e: olverb@co.comal.tx.us |

From: Greg Johnson <gregjohnsonpe@yahoo.com>

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- Comal IT

VOID

DRIP TUBING SYSTEM

DESIGNED FOR:

THOMAS O. PERSYN & TAMI L. GUINN

c/o 400 N. 1604, SUITE 250

SAN ANTONIO, TEXAS 78232

SITE DESCRIPTION:

Located in Westhaven, Unit 2, Block 1, Lot 4R at 108 Canteen, the proposed system will serve a five bedroom residence (3649 sf.) 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 a Pro-Flo Model 5060-600 gpd aerobic treatment plant containing a 397 gal. pretreatment chamber and a 768 gal. pump chamber. The effluent after processing gravity feeds into the pump chamber. The pump chamber contains a 0.5 HP FPS submersible well pump. The well pump is activated by mercury floats and a timer set to cycle eight times per day for six minutes 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 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 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 periodically flush the system to the trash tank by cycling a 1" ball valve. Solids caught in the 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 tubing the entire field must be scarified and built up with ten 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**). The field area will be sodded with grass with hearty grass such as Bermuda, St. Augustine, etc. prior to system startup.

Tanks must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.

DESIGN SPECIFICATIONS:

Q = 360 GPD - 5 bdrm residence (3649sf) (Table III)

Pretreatment tank size: 397 Gal

Plant Size: ProFlo Model 5060 - 600 GPD (TCEQ Approved)

Pump tank size: 768 Gal

VOID

Reserve capacity after High Level: 120 gal. (1/3 day usage)
Application Rate: Ra = 0.2 gal/sf
Total absorption area: Q/Ra = 360 GPD/0.20 = 1800 sf. (Actual 3000 sf.)
Total linear feet drip tubing: 1500' *Netifim Bioline* drip tubing .61 GPH
Pump requirement: 750 emitters @ 0.61 gph @ 30 psi = 7.625 gpm
Pump: 0.5 HP FPS E SERIES 20FE05P4-2W115 submersible pump or equivalent.
Dosing volume: 50-70 gal.

Pump Tank Calculations: 768 Gal (13.3 gal/in.)
Volume below working level = 12" = 160 gal
Working level = 360 gal = 27"
Reserve Requirement = 1 day = 120 gal. = 9"

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS
IN DRIP TUBING W/ NOM. DIA. 0.55" ID

MSV = 2 FPS $(\frac{\pi d^2}{4} * 7.48 \text{ gal/cf} * 60 \text{ sec/min})$
MSV = $2(3.14159((.55/12)^2)/4) * 7.48 * 60$
MSV = 1.5 gpm MIN FLOW RATE x 4 lines = 6 gpm

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

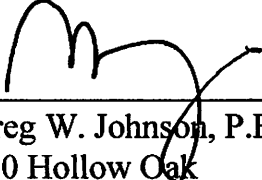
MSV = 2 FPS $(\frac{\pi d^2}{4} * 7.48 \text{ gal/cf} * 60 \text{ sec/min})$
MSV = $2(3.14159((1.049/12)^2)/4) * 7.48 * 60$
MSV = 5.4 GPM

PIPE AND FITTINGS:

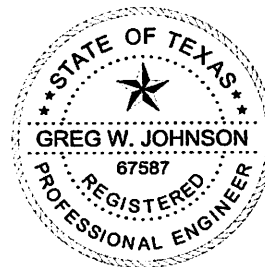
VOID

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)

 01/19/2023

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: [Catherine Jefferson](#)
Subject: RE: 108 CANTEEN - PERSYN GUINN #115841
Date: Tuesday, March 19, 2024 12:19:00 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: Tuesday, March 19, 2024 11:50 AM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Cc: Catherine Jefferson <cat@mjseptic.com>
Subject: 108 CANTEEN - PERSYN GUINN #115841

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REVISED.
THANKS,
GREG

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

From: [Ritzen, Brenda](#)
To: "[Greg Johnson](#)"
Cc: [Stephanie Perez](#); [Catherine Jefferson](#); [Sima Rastgoo](#); [Krislynn Carreon](#)
Subject: RE: 108 CANTEEN - PERSYN GUINN #115841
Date: Tuesday, May 9, 2023 10:47:00 AM
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: Tuesday, May 2, 2023 11:57 AM
To: Ritzen, Brenda <rabbjr@co.comal.tx.us>
Cc: Stephanie Perez <mjseptic@mjseptic.com>; Catherine Jefferson <cat@mjseptic.com>; Sima Rastgoo <sima@wd-homes.com>; Krislynn Carreon <krislynn@wd-homes.com>
Subject: 108 CANTEEN - PERSYN GUINN #115841

This email originated from outside of the organization.

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REVISED.
THX,
GREG

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

170 Hollow Oak

New Braunfels, TX 78132

VOID

SLEEVE WATER LINE WITH 2"-SCH-40 PVC PIPE WHEN ENTERING CLOSER THAN 10' FROM SEPTIC SYSTEM OR SEPTIC FIELD

PRO FLO 5060 HCSP AEROBIC TREATMENT PLANT

LOT 4R

5 BDRM RES. 3649sf

CANTEEN

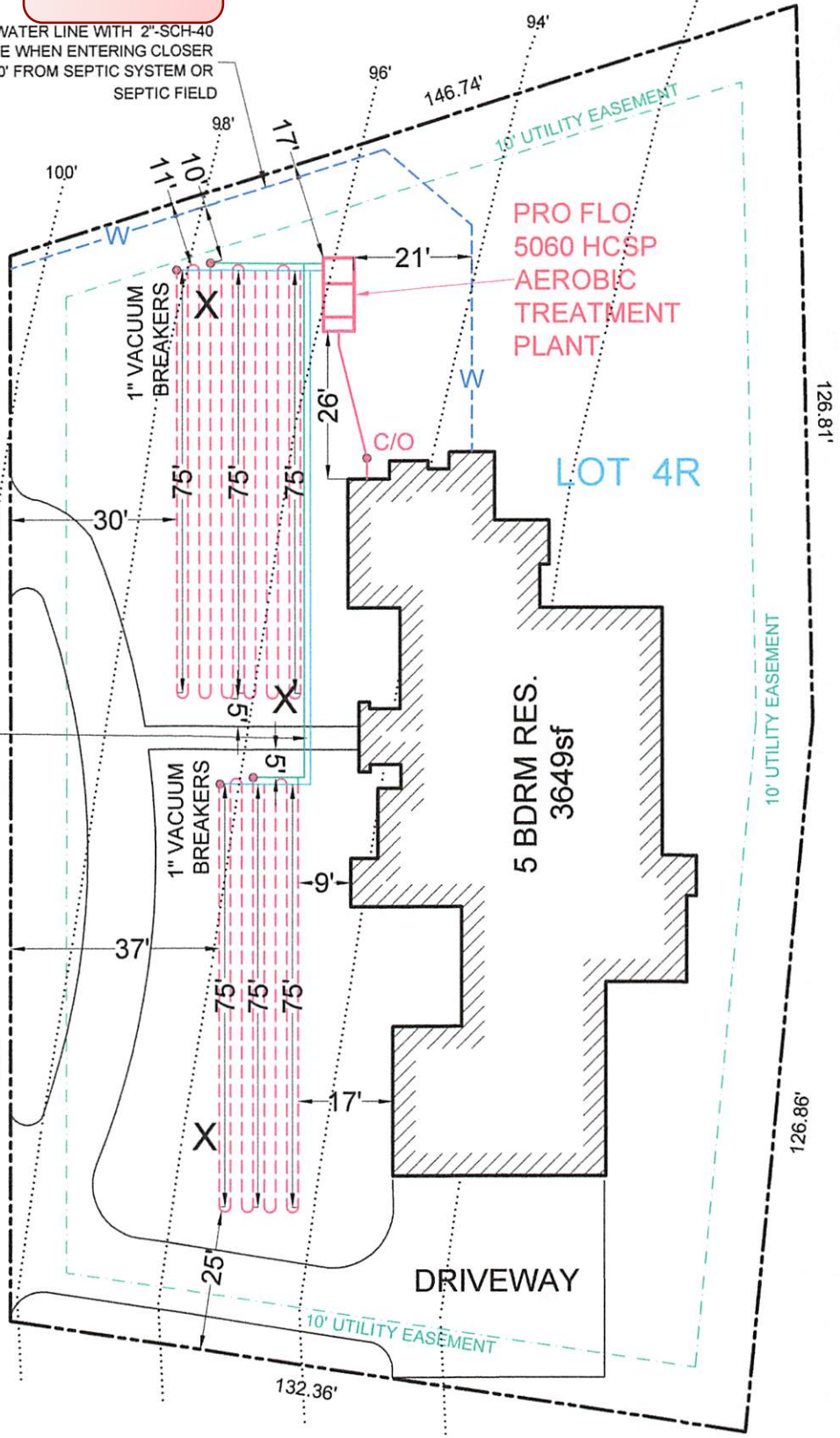
DRIVEWAY

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

SLEEVE SEPTIC LINE WITH SCH-40 WITHIN 5' AND UNDER SIDEWALK.



OWNER: THOMAS O. PERSYN & TAMI L. GUINN		DRAWN BY: EJS III		
STREET ADDRESS: 108 CANTEEN				
LEGAL DESC: WESTHAVEN	UNIT/SECTION/PHASE: 2	BLOCK: 1	LOT: 4R	
PREPARED BY: GREG W. JOHNSON, P.E. F#002585	SCALE: 1"=30'	DATE: 1/20/2023	REVISED:	

FILED BY ATC
COLONNADE

GF# 4000061902079 Rm

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

WARRANTY DEED WITH VENDOR'S LIEN

Date: December 20, 2019

Grantor: CRESTON C HUTCHINSON

Grantor's Mailing Address: 3407 River Way
(including county) San Antonio, Bexar County, TX 78230

Grantee: THOMAS O PERSYN and TAMI L GUINN

Grantee's Mailing Address: 7427 MOSS BROOK DR
(including county) SAN ANTONIO, BEXAR County, TX 78255

Consideration: TEN AND NO/100 DOLLARS (\$10.00) and other valuable consideration and a note of even date in the principal amount of One Hundred Twenty Thousand and no/100 DOLLARS (\$120,000.00) executed by Grantee payable to the order of RANDOLPH-BROOKS FEDERAL CREDIT UNION. The note is secured by a vendor's lien retained in favor of RANDOLPH-BROOKS FEDERAL CREDIT UNION in this deed and by a deed of trust of even date from Grantee to MORTON W. BAIRD II, Trustee.

Property (including any improvements):

Lot 4R, Block 1, Westhaven Subdivision, Unit 2, Comal County, Texas, according to plat thereof recorded in Document No. 201906044976, Official Public Records, Comal County, Texas.

Reservations from and Exceptions to Conveyance and Warranty:

This conveyance is made subject to any easements, conditions, mandatory homeowners assessments and/or restrictions of record affecting the title to the hereinbefore described 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 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 lien 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 become absolute.

RANDOLPH-BROOKS FEDERAL CREDIT UNION, 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 above. The vendor's lien and superior title to the property are retained for the benefit of RANDOLPH-BROOKS FEDERAL CREDIT UNION and are transferred to that party without recourse on Grantor.

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

[Signature]
CRESTON C HUTCHINSON

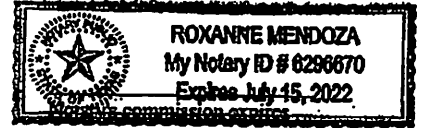
THE STATE OF TEXAS } (Acknowledgment)
COUNTY OF Bexar

This instrument was acknowledged before me on the 20 day of December, 2019

by CRESTON C HUTCHINSON

[Signature]
Notary Public, State of Texas

Notary's Name (printed)



THE STATE OF TEXAS } (Acknowledgment)
COUNTY OF _____

This instrument was acknowledged before me on the _____ day of _____, 20____

by

Notary Public, State of Texas

Notary's Name (printed)

Notary's commission expires

THE STATE OF TEXAS } (Acknowledgment)
COUNTY OF _____

This instrument was acknowledged before me on the _____ day of _____, 20____

by

Notary Public, State of Texas

Notary's Name (printed)

Notary's commission expires



THE STATE OF TEXAS

COUNTY OF Bexar }

(Acknowledgment)

This instrument was acknowledged before me on the 20 day of December, 2019
by Creston

Notary Public, State of Texas

Notary's Name (printed)

Notary's commission expires:

AFTER RECORDING RETURN TO:

THOMAS O PERSYN
7427 MOSS BROOK DR
SAN ANTONIO, TX 78255

PREPARED IN THE LAW OFFICE OF:

MORTON W. BAIRD II
242 W. Sunset, Suite 201
San Antonio, Texas 78209

Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
12/23/2019 12:35:57 PM
CHRISTY 3 Pages(s)
201906046351



Bobbie Koepf





201906044976 12/13/2019 01:13:18 PM 1/3

AMENDMENT TO PLAT

OWNER NAME(S) As Shown On Deed: Creston C Hutchinson
MAILING ADDRESS: 3407 River Way, San Antonio, TX 78230

LEGAL DESCRIPTION OF PROPERTIES

PLAT Document #: OR Vol.: 2 Page(s): 21-22
Lot(s): 4 and 5 Block(s): 1
Subdivision: Westhaven, Unit II

LOT: 4R ESTABLISHING BLOCK: 1 RECEIVED
SUBDIVISION: Westhaven, Unit II NOV 26 2019

NO IMAGE WILL BE PRODUCED. SEE REFERENCED DOCUMENTS

COUNTY ENGINEER

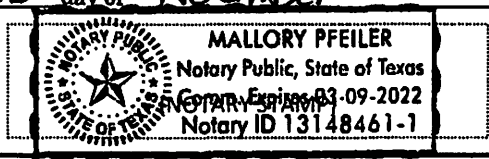
The signatures affixed below will certify that the owner(s) of the described property hereby amend the plat of the property so as to combine the referenced lot(s) or tract(s) into a single lot or tract. The property owner(s) acknowledge that this Amendment to Plat may not dissolve or alter any existing easement(s) or other property interests that may exist within the boundaries of this property and that obtaining releases or permission from any owner(s) or beneficiary of easement(s) or other property interest(s) affected by this process shall be the responsibility of the property owner(s). The owner(s) also certify that any and all Lien-Holders have acknowledged this Amendment to Plat as per the attached Lien-Holder Acknowledgement(s) if applicable.

Creston C Hutchinson Printed Name of Owner
[Signature] Signature of Owner (above)

STATE OF TEXAS:
COUNTY OF Comal

SWORN AND SUBSCRIBED before me by Creston C Hutchinson and
Printed Name of Owner
on the 26 day of November, 2019.

[Signature]
NOTARY SIGNATURE



APPROVED BY COMMISSIONERS COURT on the

12th day of December, 2019



[Signature] COUNTY JUDGE
TEST: [Signature] COUNTY CLERK

Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
12/13/2019 01:13:18 PM
CASHFOUR 3 Page(s)
201906044976
[Signature]



COMAL COUNTY
ENGINEER'S OFFICE

**OSSF DEVELOPMENT APPLICATION
CHECKLIST**

Staff will complete shaded items

		115841
<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

02/17/2023

Date

<input type="checkbox"/> COMPLETE APPLICATION Check No. _____ Receipt No. _____
--

<input type="checkbox"/> INCOMPLETE APPLICATION (Missing Items Circled, Application Refeused)
--