



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: 119074
Issued This Date: 11/14/2025
This permit is hereby given to: Stuart Wentworth

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

1188 BLUERIDGE DR
CANYON LAKE, TX 78133

Subdivision: Canyon Lake Hills
Unit: 1
Lot: 145
Block: 0
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

Brandon Mark Olvera

11/13/2025 9:07:10 AM



COMAL COUNTY

ENGINEER'S OFFICE

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

--	--

Date Received

Initials

--

Permit Number

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

10/31/2025

Date

___ COMPLETE APPLICATION

Check No. _____ Receipt No. _____

INCOMPLETE APPLICATION

___ (Missing Items Circled, Application Refused)



ON-SITE SEWAGE FACILITY APPLICATION

Received
Brandon Mark Olvera
11/13/2025 9:07:14 AM

Date _____

Permit Number _____

1. APPLICANT / AGENT INFORMATION

WENTWORTH STUART II TRUST & MEURER LIVING TRUST

Owner Name _____

Agent Name David Winters Septics LLC.

Mailing Address 1187 Blueridge Dr.

Agent Address P.O Box 195

City, State, Zip Canyon Lake, TX 78133

City, State, Zip Spring Branch, TX 78070

Phone # 925-203-0071

Phone # 830-935-2477

Email Stuart@Qualityproduct.com

Email Wintersseptics@gvvc.com

2. LOCATION

Subdivision Name Canyon Lake Hills Unit 1 Lot 145 Block _____

Survey Name / Abstract Number _____ Acreage _____

Address 1188 Blueridge Dr. 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 2

Indicate Sq Ft of Living Area 1264

☐ 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: \$ 200,000 (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

4. SIGNATURE OF OWNER

By signing this application, I certify that:

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

Signature of Owner

10/31/2025
Date



Planning Materials & Site Evaluation as Required Completed By Garrett R. Winters R.S

System Description Aerobic System W/ Drip Application

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

Tank Size(s) (Gallons) 600gpd Absorption/Application Area (Sq Ft) 1264

Gallons Per Day (As Per TCEQ Table III) 180

(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 R.S. or P.E. 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: _____



Garrett R. Winters R.S.

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.

Garrett R. Winters R.S.

Signature of Designer

11/3/2025

Date

**COUNTY OF COMAL
STATE OF TEXAS**

AFFIDAVIT TO THE PUBLIC

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

According to Texas Commission on Environmental Quality (TCEQ) Rules for On-Site Sewage Facilities (OSSFs), 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, give 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 owners 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):

Lot 145, Canyon Lake Hills, Unit 1, according to the map or plat recorded
in Volume 2, Page 17, Comal County, Texas

The property is owned by (insert owner's full name):

WENTWORTH STUART H TRUST & MEURER LIVING TRUST

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 OSSF may be obtained from Comal County Engineer's Office.

WITNESS BY HAND(S) ON THIS 26th DAY OF July 2024

[Signature]
[Signature]
Owner(s) signature(s)

STUART H WENTWORTH
ELIZABETH MEURER
(PRINTED NAME)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 26th DAY OF JULY 2024

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

SEE ATTACHED

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

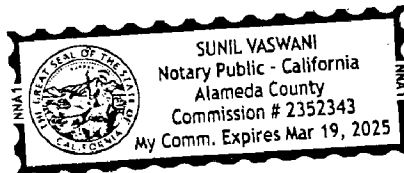
State of California
County of Alameda)

On July 26, 2024 before me, SUNIL VASWANI, Notary Public
(insert name and title of the officer)

personally appeared STUART H. WENTWORTH and ELIZABETH J. MEURER,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.



Signature *S. Vaswani* (Seal)

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
07/31/2024 11:56:42 AM
LAURA 3 Pages(s)
202406022845



Bobbie Koepp

DAVID WINTERS SEPTICS, LLC
PO BOX 195
SPRING BRANCH, TX 78070
830-935-2477 OFFICE
830-935-2477 FAX
wintersseptics@gvtc.com

Routine Maintenance and Inspection Agreement

This Work-for-Hire Agreement (hereafter referred to as this "Agreement") is entered into, by, and between WENTWORTH STUART II TRUST & MEURER LIVING TRUST (referred to as "Client") and David Winters Septic's, LLC, Inc. (hereafter referred to as "Contractor") located at 1188 Blueridge Dr. Date beginning on Issue Date of and contract ending 2 years from Issue Date of License to Operate License to Operate
By this agreement the Contractor agrees to render professional service, as described herein, and the Client agrees to fulfill the terms of this Agreement as described herein.

This agreement will provide for all required inspections, testing, and service for your Aerobic Treatment System.
The policy will include the following:

1. Three (3) inspections per year/service calls (at least one every four months), for a total of six (6) over the two-year period, including inspection, adjustment, and servicing of the mechanical, electrical and other applicable component parts to ensure proper function. This includes inspecting control panel, air pumps, air filters, diffuser operation, and replacing or repairing any component not found to be functioning correctly. Any alarm situations affecting the proper function of the Aerobic process will be addressed within a 48-hour time frame. This contract does not include labor on warranty and non-warranty parts.
2. An effluent quality inspection consisting of a visual check of color, turbidity, scum overflow and examination for odors. A test for chlorine residual and pH will be taken and reported as necessary.
3. If any improper operation is observed, which cannot be corrected at the time of the service visit, you will be notified on your inspection report.
4. The Client is responsible for the chlorine tablets and/or liquid chlorine; they must be filled before or during the service visit.
5. Any additional visits, inspections or sample collection required by specific Municipalities, Water/River Authorities, and County Agencies the TCEQ or any other authorized regulatory agency in your jurisdiction will not be covered by this policy.

At the conclusion of the initial service policy, our company will make available, for purchase on an annual basis, a continuing service policy cover NORMAL inspection, maintenance and repair.

The Homeowners Manual must be strictly followed or warranties are subject invalidation. Pumping of sludge build up is not covered by this policy and will result in additional charges.

This agreement does not cover any labor or parts for items which must be replaced due to acts of God, i.e., lightning strikes, high winds, flooding, freezing.

This agreement DOES NOT COVER materials or parts which must be replaced due to misuse or abuse of the system. These include but are not limited to: Sewage flows exceeding the recommended daily hydraulic design capabilities, Disposal of Non-Biodegradable materials, such as chemicals, grease or oil, sanitary napkins, tampons, baby wipes, disposable diapers, Clogs in the line between the house and the tank.

This agreement DOES NOT COVER LABOR OR PARTS for out- of- warranty items.

Service calls made outside of the regular maintenance schedule are subject to a **\$75.00 SERVICE CALL FEE** due at the time of service.

ACCESS BY CONTRACTOR

The contractor or anyone authorized by the contractor may enter the property at reasonable times without prior notice for the purpose of service described above.

First 2 years
included with new

PAYMENT AGREEMENT

The client will pay compensation to the contractor for the services in the amount of install. This compensation shall be payable in one lump sum payment upon acceptance of this agreement. Payments not received within 30 days of the above described due date will be subject to a \$25.00 late penalty.

TERMINATION OF THIS AGREEMENT

Either party may terminate this agreement within 10 days of written notice in the event of substantial failure to perform in accordance with its terms by other party without fault of the terminating party. If this agreement is terminated, the contractor will immediately notify the appropriate health authority.

LIMIT OF LIABILITY

The Contractor will not be liable for indirect, consequential, incidental or punitive damages, whether in contract or any other theory. In no event shall the Contractor's liability for direct damages exceed the price for the services described in this agreement.

Permit # _____

The effective date of this initial maintenance agreement shall be the date the license to operate is issued.

Client

WENTWORTH STUART II TRUST & MEURER LIVING TRUST

Name

1188 Blueridge Dr.

Address

Canyon Lake, Texas (Lot 145 Canyon Lake Hills)

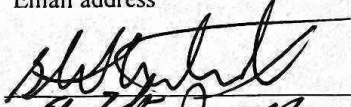
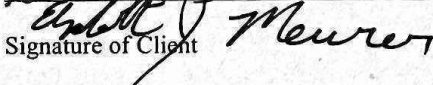
City/State/Zip Code

925-203-0071

Phone

Stuart@Qualityproduct.com

Email address



Signature of Client

Contractor

David Winters Septic's, LLC

1550 OAK MEADOWS
CANYON LAKE, TX 78133
830-935-2477

Office 830-935-2477

By:



Signature of Contractor

Maintenance Provider #-MP0001686

OSSF Soil & Site Evaluation

Page 1 (Soil & Site Evaluation)

Date Performed: 7 / 15 / 2024

Property Owner: WENTWORTH STUART

Site Location: 1188 Blueridge Rd. Canyon Lake, TX 78133 Proposed Excavation Depth: 1FT

REQUIREMENTS:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil borings 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 disposal field excavation depth. For surface disposal, the surface horizon must be evaluated. Describe each soil horizon and identify any restrictive features on this form. Indicate depths where features appear.

Soil Boring Number:					
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.	III	<30%	None Observed	Bedrock 10"	Clay Laom/Drk Brwn
2 FT.					
3 FT.					
4 FT.					
5 FT.					

Soil Boring Number:					
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.					
2 FT.		SAME AS	TH1		
3 FT.					
4 FT.					
5 FT.					

FEATURES OF SITE AREA

Presence of 100 year flood zone ☐ Yes ☒ No
Presence of upper water shed ☐ Yes ☒ No
Presence of adjacent ponds, streams, water impoundments ☐ Yes ☒ No
Existing or proposed water well in nearby area (within 150 feet) ☐ Yes ☒ No
Ground Slope 3-5 %

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


(Signature of person performing evaluation)

07/15/24
(Date)

OS#0037882
Registration Number and Type

CCEO
COPY

Preliminary Field Check For Drip Systems

DATE:8/26/24

INSPECTOR: Corey Allen

OBSERVATION: 2 probes at 8 inches

CCEO
COPY



CCEO
COPY



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Brandon Mark Olvera

11/13/2025 9:25:29 AM

GW Septic Designs



On-Site Sewage Facility Application and Design

Prepared By:

Garrett R. Winters

Registered Professional Sanitarian

R.S# 5213



A handwritten signature in cursive script, followed by the initials 'R.S.' to the right.

Contact Information

Phone: (210) 854-2673

Email: Gwintersseptics@gmail.com

Received

Brandon Mark Olvera

11/13/2025 9:26:03 AM

Owner/Site Location

Owner: WENTWORTH STUART

Address: 1188 BLUERIDGE DR Canyon Lake, TX 78133

Subdivision: CANYON LAKE HILLS 1

LOT: 145

LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with Drip irrigation. The sizing of the OSSF was determined as specified in the Texas Commission on Environmental Quality (TCEQ) CHAPTER 285.33 (C)(2). Water saving devices are assumed for the septic system design. This site is not within the 100-Year flood plain (see site plan). Water to the property will be serviced by a public water supply. All parts of the system will maintain at least a 10' setback from all water lines and 5' from property lines.

System Summary

This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality.

- 600gpd Aerobic DRIP treatment unit
- Manual 12hr control timer
- 20gpm submersible effluent pump
- SCH40 PVC Sewer line
- 1" purple PVC SCH40 supply/return manifold
- NETAFIM Arkal 100-micron disk filter
- Pressure Gauge
- 30 PSI pressure regulator - Model PMR30MF
- Vacuum Breakers installed at the highest points of the drip field.
- Spin lock connectors to prevent kinking of tubing.
- Drip Tubing (Netafim Bioline)
- Visual and audio alarms monitoring high water and aerator failure placed in a noticeable location.

Wastewater Design Flow

Structure: Single Family Residence (1262sf)

of Bedrooms: 2

Wastewater Usage Rate: 180GPD

Application Rate: 0.2

Application Area Required: 900sf

Actual Application Area: 1264sf

System Components

Pretreatment Tank: 500gal

Pump Tank: 800gal

Aeration Tank: 600gpd

Pump: C1 20gpm submersible pump (Model no. 20C1-05P4-2W115 or equivalent)

Pump tank reserve minimum: 60gal

Potable Water Lines

Potable water lines must be at a minimum distance of 10 feet from OSSF components. If a water line is within 10 feet, it must be sleeved with 2" SCH40 PVC Pipe in order to provide equivalent protection of a 10' separation in compliance with TAC chapter 290, Subchapter D, Rules for Public Drinking Water Systems.



Revised

11/03/2025 8:23:26 AM

Electrical Components

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use) and have maintenance lockout provisions.

Installation

A 3" or 4" solid-wall SCH40 or SDR 26 PVC pipe with a minimum downward slope of 1/8 inch per foot will be installed between the tank and house. A 2-way cleanout must be included in the line between the house and tank. All piping from house-to-tank and tank-to-drain field must be bedded with class Ib, II, or III soils containing less than 30% gravel. The bottom of the excavation for the tank shall be level and free of large rocks/debris, the tanks shall then be bedded with a 4"-6" layer of sand, sandy loam, 3/4 dust or pea gravel. All openings in the tank are to be sealed to prevent the escape of wastewater. For all OSSF's permitted on or after September 1, 2023, 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. 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. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions. Acceptable protective measures include: a padlock and a cover that can be removed with tools.

LANDSCAPING

The native vegetation in the distribution area should consist of low-level shrubs, plains grass, bluestem, or Bermuda. The entire area of the drip disposal must be covered with a ground cover such as grass seed or sod prior to the final inspection. The placement of the drip tubing will be on soil that has been scarified. The location of an individual sewage system shall not be in a poorly drained or filled area, or in any area where seasonal flooding/seeping occurs, without prior written approval. Stormwater runoff should not be allowed to flow over the drip field or tanks. Berms, swales and/or rain gutters should be installed by the owner/contractor to minimize erosion and field saturation. If the slope in the drain field area is greater than 30% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. *The drip field shall then either be seeded and covered with Curlex or sodded.*

Maintenance Contract

For any OSSF with a pump, the installer shall provide the Designated Representative with proof of an executed two-year full-service maintenance contract as required by the TCEQ. The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of the installation. The initial contract will be for a minimum of 2 years. A maintenance contract will authorize the Maintenance Company to maintain and repair the system as needed. The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.



Affidavit

Prior to issuance of a permit, a certified copy of an affidavit must be submitted to the County Clerk's office. The affidavit is a recorded file in reference to the real property deed on which the surface application is installed on the property. The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF has been severed from the property.

Proposed System

A 3- or 4-inch SCH-40 pipe discharges from the residence into an Aquaklear AKA600CA (600GPD) aerobic treatment plant containing a 500-gallon pretreatment tank and an 800-gallon pump chamber. A threaded union will be installed in the pump tank on the supply manifold to the drip field, and a pressure regulator will be installed on the supply manifold to maintain a pressure of 30 psi. The pump chamber contains a 0.5 HP Franklin C1-Series-20XC1-05P4-2W115 submersible well pump (or equivalent). Distribution is through a self-flushing 100-micron Arkal Disk filter then through a 1" SCH-40 manifold to a minimum of 1,264sf drip tubing field with Netifim Bioline drip lines approximately two feet apart with 0.61gph emitters set every two feet as per the attached schematic. A 1" SCH-40 return line is installed to periodically flush the system. Solids caught in the disk filter are flushed each cycle back to the Pre-Treatment tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. The field area shall be scarified and built up with 2" of Imported TYPE II OR TYPE III soil (Not Sand) and capped with 6." The drip field will then either be seeded and covered with Curlex or sodded.



The following design is intended to follow and meet the TCEQ 30 TAC 285 OSSF Regulations. The performance of this system cannot be guaranteed even though all provisions of 30 TAC 285 have been met or exceeded.

Received

Brandon Mark Olvera

11/14/2025 12:32:38 PM

GW Designs
Garrett R. Winters
1332 Mountain View DR, Canyon Lake TX
(210) 854-2673

November 13th, 2025
Comal County Engineers Office
195 Jonas Dr.
New Braunfels, TX 78132

RE- Septic Design
1188 Blueridge Dr.
Canyon Lake, TX 78133

Brenda/Brandon

I am requesting a variance for a water line that is within 10ft of the OSSF drip field, and crossing supply/return lines . The variance is being requested due to lack of space on this particular lot, equivalent protection will be maintained by sleeving the water line with 2" SCH 40 PVC pipe where it is within 10' of the OSSF components. I hereby request a variance to chapter 285.91(10). In my professional opinion this variance will not pose a threat to the environment or public health.

Please feel free to contact me with any questions or concerns.

Sincerely,

Garrett R. Winters R.S
#5213



Received
Brandon Mark Olvera
11/13/2025 9:26:22 AM

OSSF INFORMATION

- STRUCTURE: 1262SF
- BEDROOMS: 2
- DAILY WASTEFLOW: 180GPD
- TANK MANUFACTURER: AQUAKLEAR AKA600CA
- MINIMUM DRIP FIELD COVERAGE: 900SF
- ACTUAL COVERAGE AREA: 1264SF

FLOOD PLAIN: AFTER CAREFUL EXAMINATION AND STUDY OF AVAILABLE DATA (INCLUDING FEMA PANEL ZONE X (AREA OF MINIMAL FLOOD HAZARD) I HAVE DETERMINED, TO THE BEST OF MY ABILITY, THAT NEITHER THE HOUSE NOR THE SEPTIC IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN.

NOTE: DRIP FIELD AREA TO BE SCARIFIED BEFORE PLACEMENT OF DRIP TUBING

NOTE

AEROBIC TREATMENT UNIT TO BE BURIED AT A DEPTH TO ALLOW FOR 12" OF SOIL BETWEEN TOP OF THE AEROBIC TREATMENT UNIT AND THE BOTTOM THE DRIP TUBING

DRIP FIELD LAYOUT

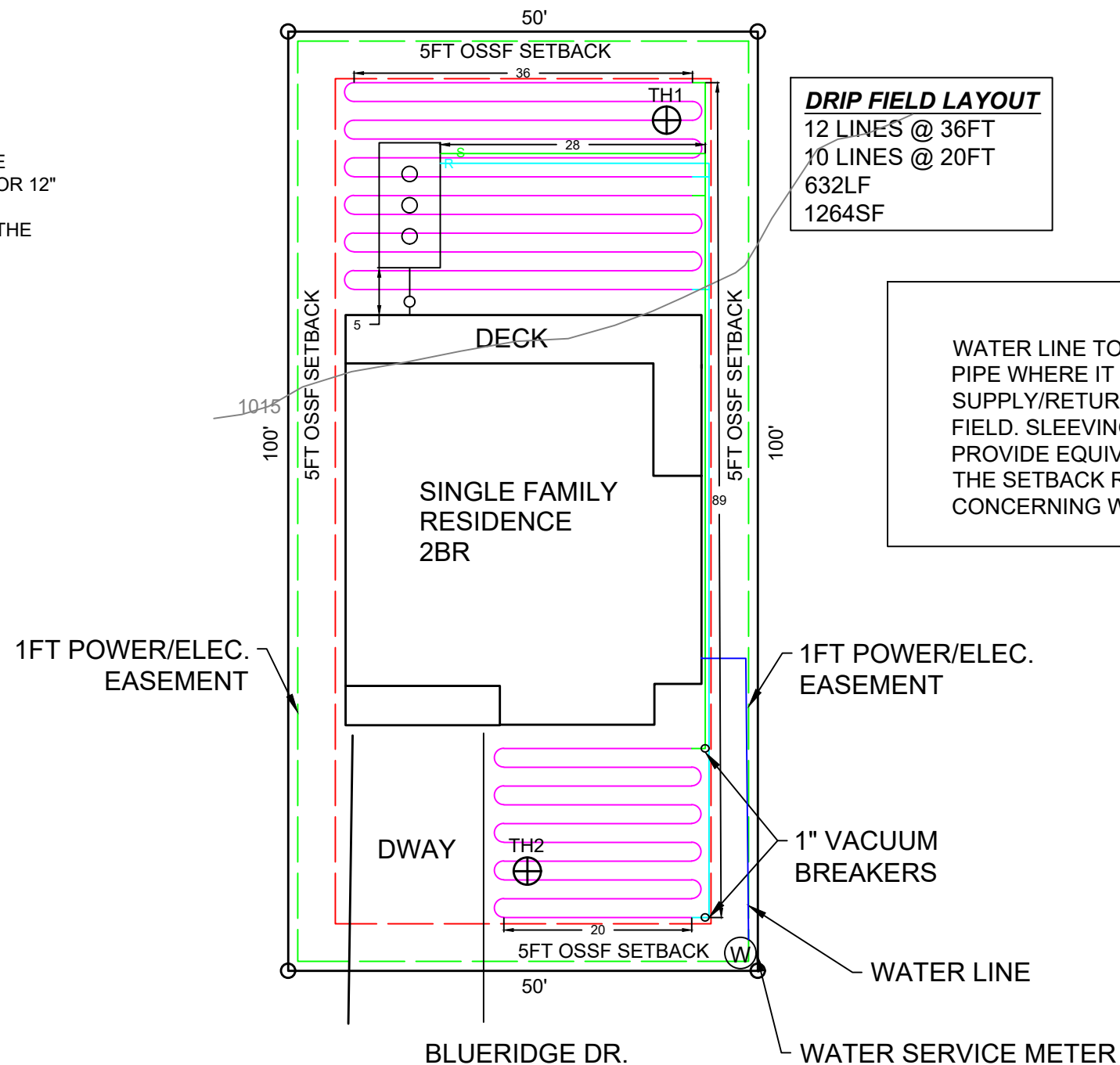
12 LINES @ 36FT
10 LINES @ 20FT
632LF
1264SF

NOTE

WATER LINE TO BE SLEEVED W/ SCH40 PIPE WHERE IT IS WITHIN 10' OF THE SUPPLY/RETURN MANIFOLD AND DRIP FIELD. SLEEVING THE WATER LINE WILL PROVIDE EQUIVALENT PROTECTION TO THE SETBACK REQUIREMENTS IN TAC285 CONCERNING WATER LINES.

NOTES

- ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY PART OF THE OSSF
- TANK SEWER PIPE MUST HAVE AT MINIMUM .25" FALL PER 1'
- USE 3" OR 4" SCH40 PIPE TO CONNECT STRUCTURE TO TANK
- VACUUM BREAKERS ARE TO BE PLACED AT THE HIGHEST POINT ON THE SUPPLY AND RETURN LINES
- NO VEHICLE TRAFFIC IS TO BE ON ANY PART OF THE DISPOSAL AREA
- SYSTEM SHALL INCLUDE AUDIO AND VISUAL ALARMS TO INDICATE HIGH WATER AND AIR
- ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION
- ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL FIELDS. CLAY LOAM IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS. DIVERSION BERMS, SWALES AND/OR RAIN GUTTERS SHOULD BE INSTALLED AS NECESSARY TO PREVENT SUCH RUNOFF.
- THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRAINAGE, BUILDING AND/OR WATER USAGE, MAY CAUSE PREMATURE FAILURE AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER
- THIS SITE PLAN IS EXPRESSLY INTENDED FOR ON-SITE SEWAGE FACILITY (OSSF) USE ONLY AND SHOULD NOT BE UTILIZED OR CONSTRUCTED FOR SURVEYING PURPOSES. ITS PURPOSE IS TO ACCURATELY REPRESENT THE LAYOUT AND DESIGN OF THE SEWAGE SYSTEM WITHIN THE SPECIFIED PROPERTY BOUNDARIES FOR REGULATORY AND OPERATIONAL COMPLIANCE.



Revised
11/03/2025 8:29:46 AM

PREPARED BY: GARRETT R. WINTERS
R.S #5213

OWNER: WENTWORTH STUART

ADDRESS: 1188 BLUERIDGE DR
Canyon Lake, TX 78133
SUBDIVISION: CANYON LAKE HILLS 1
LOT: 145

DATE	DESCRIPTION	REV#



SCALE: 1" = 16'

DATE: 11/3/2025



Garrett R. Winters

Float Settings For 180gpd Waste Flow

(Measure From TANK Floor)

800gal pump tank at 52.5 to bottom outlet = 15.3gal/in

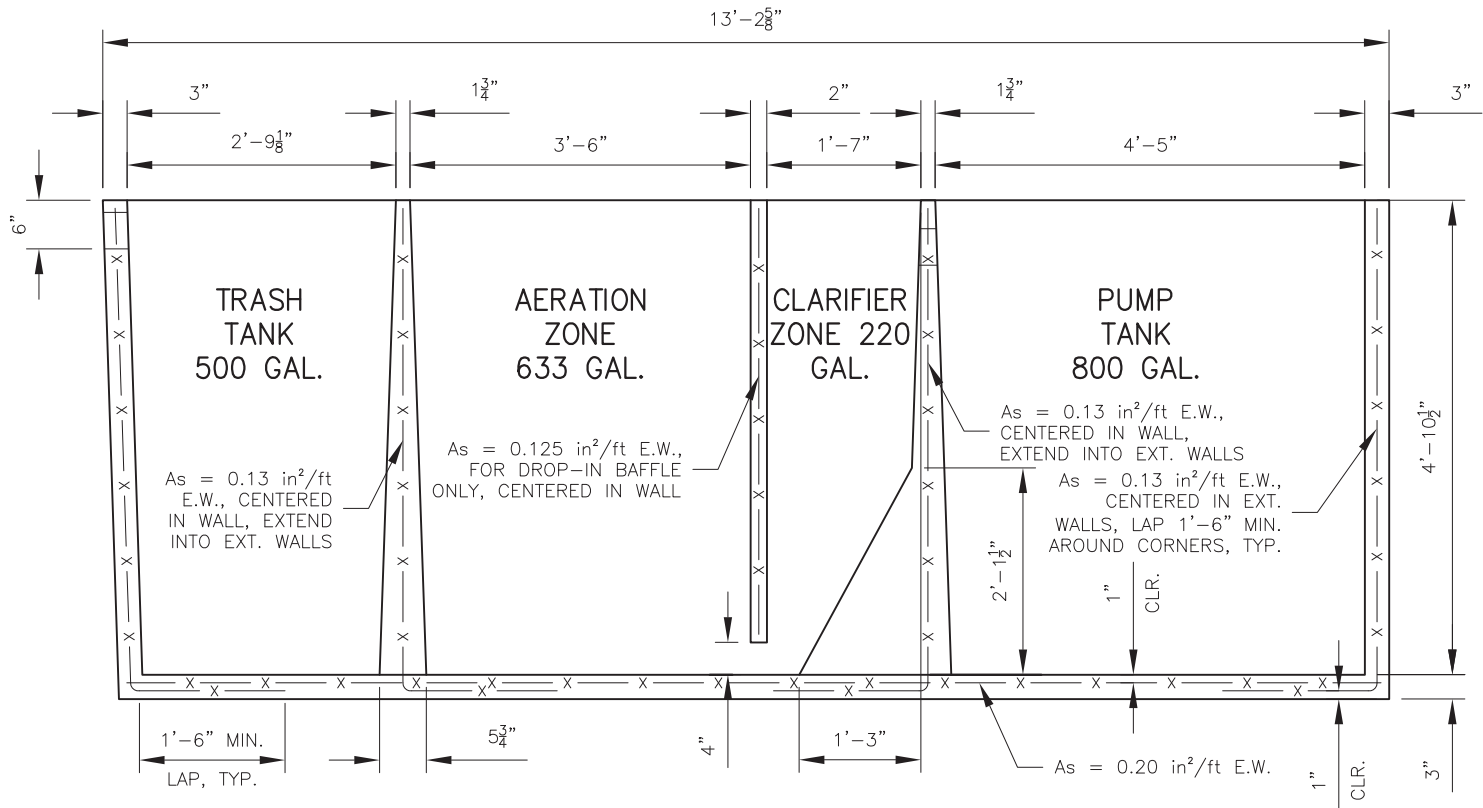
Pump OFF: 16" (244.8gal)

Pump ON: 21" (367.2gal)

ALARM: 34" (520.2gal)

Reserve: 279.8gal

Minimum: 60gsi



REINFORCING SECTION



Garrett R. Winters R.S.

REV. NO.	DATE	REVISION

PREPARED BY:

DELTA
SPECIALTY PRECAST CONCRETE ENGINEERS
860 HOOPER ROAD, ENDWELL, NY 13760-1564
PHONE (607) 231-6600 FAX (607) 231-6650

PREPARED FOR:

DAVID WINTERS SEPTIC
P.O. BOX 195
SPRING BRANCH, TX 78070

DATE: 09/20/2021
SCALE: N.T.S.

SHEET TITLE:
REINFORCING SECTION

DRWN BY: CCFH
CKD BY:

PROJECT:

AQUAKLEAR
WASTEWATER TREATMENT SYSTEM
MODEL AKA600CA

CONTRACTOR:

DWG. I.D. RS-02

DELTA PROJ. NO.: 2021.750.001

SHT. NO. 2 OF 2

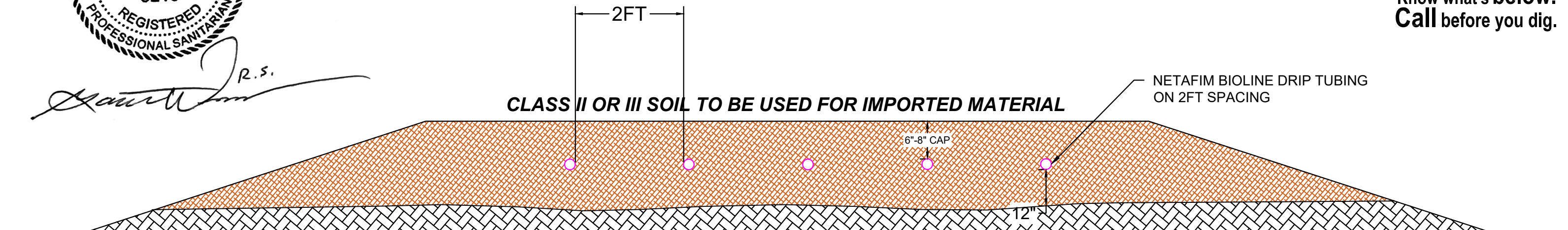
CROSS SECTION DETAIL OF DRIPFIELD



Garrett R. Winters R.S.



Know what's below.
Call before you dig.

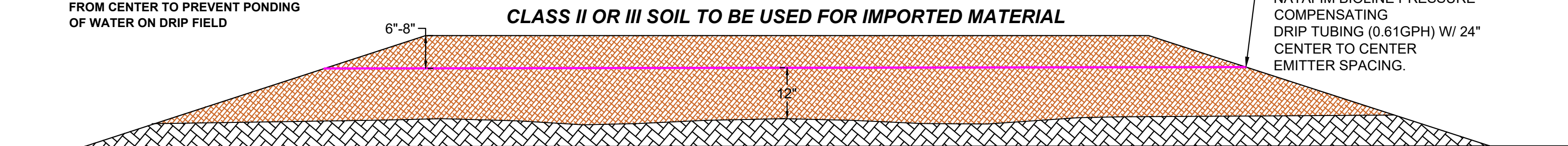


NOTES

- EACH LINE OF TUBING IS TO BE INSTALLED AS LEVEL AS POSSIBLE SPACED TWO FEET APART
- MINIMUM 12" SOIL UNDER DRIP TUBING EXISTING OR IMPORTED.
- 6" TO 8" TO BE ADDED ABOVE DRIP TUBING
- ANY SOIL DEPTH MUST BE MEASURED AFTER 100% COMPACTION
- SEEDED EROSION CONTROL BLANKET OR SAND BACKED SOD IS REQUIRED TO COVER THE DRIP FIELD AREA AFTER INSTALLATION
- SCARIFICATION PRIOR TO BUILD UP OF THE DRIP FIELD IS CRUCIAL FOR DRIP FIELD LONGEVITY
- FIELD SHOULD BE COVERED AND HAVE A SLIGHT DOWNWARD SLOPE FROM CENTER TO PREVENT PONDING OF WATER ON DRIP FIELD

NATURAL GROUND
(NATIVE SOIL TO BE SCARIFIED)

MINIMUM 12" SOIL BELOW DRIP TUBING



NETAFIM BIOLINE PRESSURE COMPENSATING DRIP TUBING (0.61GPH) W/ 24" CENTER TO CENTER EMITTER SPACING.

NATURAL GROUND
(NATIVE SOIL TO BE SCARIFIED)

MINIMUM 12" SOIL BELOW DRIP TUBING

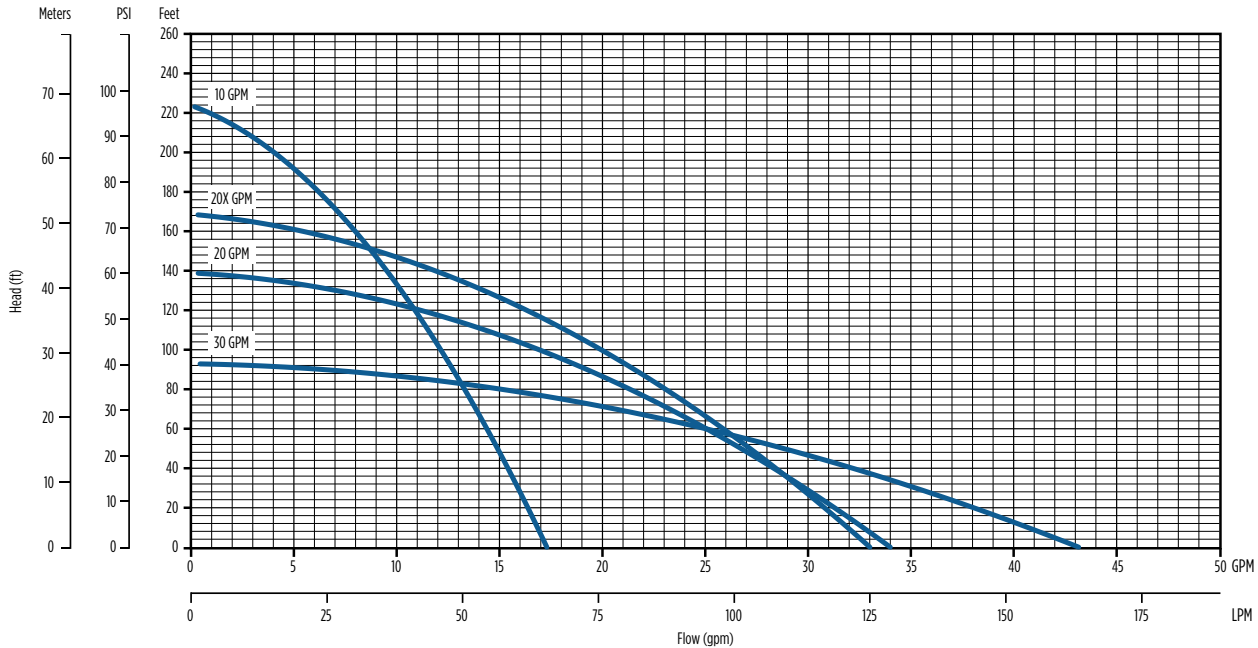
C1 SERIES

CISTERN PUMPS

Designed for use in gray water and filtered effluent service applications, the C1 Series cistern pump provides high performance and long life in less than ideal water conditions. Able to pass solids up to 1/8" without having a negative effect on the internal hydraulic components, the pump features a unique bottom suction design allowing for maximum fluid drawdown without compromising durability or overall life, and it does not require the use of a flow induction sleeve. Intended specifically for use in a cistern or tank, C1 Series pumps are suitable for use in agricultural, residential, and commercial installations.



C1 SERIES FAMILY CURVE



FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Standard backflow prevention through a built-in, but removable, check valve.
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, 1/2 hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy-duty 300 V 10 foot SJ00W jacketed lead

APPLICATIONS

- Gray water pumping
- Filtered effluent service water pumping
- Water reclamation projects such as pumping from rain catchment basins
- Aeration and other foundation or pond applications
- Agriculture and livestock water pumping

ORDERING INFORMATION

GPM	HP	Volts	Stage	Model No.	Order No.	Length (in)	Weight (lbs)
10	1/2	115	6	10C1-05P4-2W115	90301005	26	17
		230	6	10C1-05P4-2W230	90301010	26	17
20		115	4	20C1-05P4-2W115	90302005	25	16
		230	4	20C1-05P4-2W230	90302010	25	16
20X		115	5	20XC1-05P4-2W115	90302015	26	17
		230	5	20XC1-05P4-2W230	90302020	26	17
30		115	3	30C1-05P4-2W115	90303005	25	16
		230	3	30C1-05P4-2W230	90303010	25	16

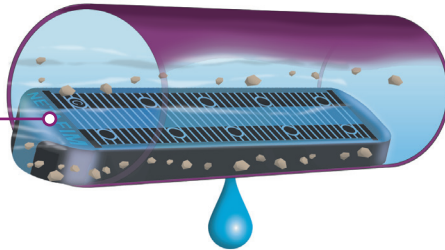
NOTE: All units have 10 foot long SJ00W leads

BIOLINE® DRIPLINE

THE WORLD'S MOST ADVANCED CONTINUOUS
SELF-CLEANING, PRESSURE COMPENSATING DRIPLINE
SPECIFICALLY DESIGNED FOR WASTEWATER

CROSS SECTION OF BIOLINE DRIPLINE

Bioline dripper inlets are positioned in the center of flow where water is the cleanest



PRODUCT ADVANTAGES

- Pressure compensation - all drippers deliver equal flow, even on sloped or rolling terrain.
- Unique flow path - Turbonet technology provides more control of water and a high resistance to clogging.
- Continuous self-flushing dripper design - flushes debris, as it is detected - throughout operation, not just at the beginning or end of a cycle. Ensures uninterrupted dripper operation.
- Single hole dripper outlet from tubing:
 - Better protection against root intrusion
 - Allows the dripline to be used in subsurface applications without need for chemical protection
- Drippers capture water flow from the center of the tubing - ensures that only the cleanest flow enters the dripper.
- Built-in physical root barrier - drippers are protected from root intrusion without the need for chemical protection. Water exits dripper in one location while exiting the tubing in another.
- Three dripper flow rates - provides the broadest range of flow rates available. Allows the designer to match the dripline to any soil or slope condition.
- Bioline tubing is completely wrapped in purple - easily identifying it for non-potable use, regardless of how the tubing is installed.
- Anti-bacterial-impregnated drippers - prevents buildup of microbial slime.
- Can be used subsurface - Bioline can be installed on-surface, under cover or subsurface.
- No special storage requirements - does not degrade if stored outdoors.
- Techfilter compatible - an optional level of protection, provides a limited lifetime warranty against root intrusion.

APPLICATIONS

- Typically installed following a treatment process
- Can be used with domestic septic tank effluent with proper design, filtration and operation
- Reuse applications including municipally treated effluent designated for irrigation and other disinfected and non-disinfected water sources.

SPECIFICATIONS

- Dripper flow rates: 0.4, 0.6 or 0.9 GPH
- Dripper spacings: 12", 18" or 24" dripper spacings and blank tubing
- Pressure compensation range: 7 to 58 psi (stainless steel clamps recommended above 50 psi)
- Maximum recommended system pressure: 50 psi
- Tubing diameter: 0.66" OD, 0.57" ID
- Tubing color: Purple color indicates non-potable
- Coil lengths: 500' or 1,000' (Blank tubing in 250')
- Recommended filtration: 120 mesh
- Bending radius: 7"
- UV resistant
- Tubing material: Linear low-density polyethylene

Additional spacing and pipe sizes available by special order. Please contact Netafim USA Customer Service for details.

BIOLINE DRIPLINE

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 3.0 fps FLUSH VELOCITY

ADDITIONAL FLOW OF 2.3 GPM REQUIRED PER LATERAL TO ACHIEVE 3 fps

DRIPPER SPACING		12"			18"			24"		
DRIPPER FLOW RATE (GPH)		0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE	15	102	94	84	136	127	113	161	151	137
	25	151	136	118	203	184	161	245	223	197
	35	193	171	146	260	232	200	315	283	245
	40	211	186	158	286	254	218	347	311	267
	45	228	200	169	310	274	233	377	335	287
Flow per 100' (GPM / GPH)		0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 3 fps flushing/scouring velocity

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 2.5 fps FLUSH VELOCITY

ADDITIONAL FLOW OF 2.0 GPM REQUIRED PER LATERAL TO ACHIEVE 2.5 fps

DRIPPER SPACING		12"			18"			24"		
DRIPPER FLOW RATE (GPH)		0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE	15	128	115	100	172	155	136	205	187	165
	25	183	161	137	248	220	188	301	268	231
	35	228	198	166	310	272	229	379	333	283
	40	248	214	178	338	295	247	413	362	305
	45	266	229	190	364	316	263	447	389	327
Flow per 100' (GPM / GPH)		0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 2.5 fps flushing/scouring velocity

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 2.0 fps FLUSH VELOCITY

ADDITIONAL FLOW OF 1.6 GPM REQUIRED PER LATERAL TO ACHIEVE 2.0 fps

DRIPPER SPACING		12"			18"			24"		
DRIPPER FLOW RATE (GPH)		0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE	15	161	141	119	217	191	164	263	233	201
	25	221	190	157	302	261	218	369	321	270
	35	269	229	187	370	316	260	455	391	324
	40	290	246	200	399	340	278	493	421	347
	45	310	261	212	427	362	296	527	449	369
Flow per 100' (GPM / GPH)		0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 2 fps flushing/scouring velocity

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.5 fps FLUSH VELOCITY

ADDITIONAL FLOW OF 1.2 GPM REQUIRED PER LATERAL TO ACHIEVE 1.5 fps

DRIPPER SPACING		12"			18"			24"		
DRIPPER FLOW RATE (GPH)		0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE	15	201	171	140	275	235	194	337	289	241
	25	266	222	179	366	308	251	453	383	313
	35	316	262	210	437	365	295	543	455	369
	40	337	280	223	469	391	313	583	487	393
	45	358	296	235	497	413	331	619	517	415
Flow per 100' (GPM / GPH)		0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 1.5 fps flushing/scouring velocity

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.0 fps FLUSH VELOCITY

ADDITIONAL FLOW OF 0.8 GPM REQUIRED PER LATERAL TO ACHIEVE 1.0 fps

DRIPPER SPACING		12"			18"			24"		
DRIPPER FLOW RATE (GPH)		0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE	15	248	205	163	344	285	228	427	355	285
	25	315	258	203	440	361	286	549	453	359
	35	367	299	234	513	419	331	643	527	417
	40	389	316	248	545	445	350	683	559	441
	45	409	332	260	574	468	367	721	589	463
Flow per 100' (GPM / GPH)		0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 1 fps flushing/scouring velocity

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 0.5 fps FLUSH VELOCITY

ADDITIONAL FLOW OF 0.4 GPM REQUIRED PER LATERAL TO ACHIEVE 0.5 fps

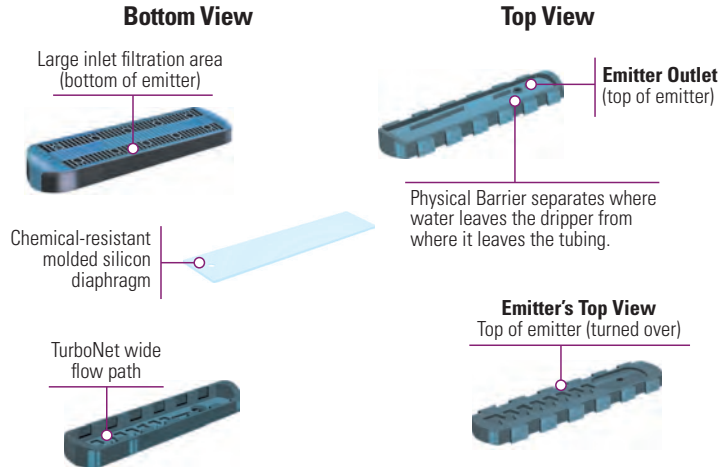
DRIPPER SPACING		12"			18"			24"		
DRIPPER FLOW RATE (GPH)		0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH
INLET PRESSURE	15	301	242	188	422	341	265	531	429	335
	25	369	296	228	520	418	323	655	527	409
	35	421	337	260	595	476	368	749	603	467
	40	443	354	273	626	501	387	790	635	491
	45	464	371	285	656	524	404	829	665	513
Flow per 100' (GPM / GPH)		0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46

Lateral lengths are based on flows allowing for a 0.5 fps flushing/scouring velocity

Netafim recommends flushing velocities capable of breaking free any accumulated bioslimes and debris in the piping network.

- Notes:
1. Refer to local regulations for information on flushing velocities that may be written into codes.
 2. Netafim does not endorse a specific flushing velocity.
 3. Flushing velocities should be determined based on regulations, quality of effluent, and type of flushing control.
 4. Using a flushing velocity less than 1 fps does not provide turbulent flow as defined by Reynolds Number.
 5. Higher flushing velocities provide more aggressive flushing.

EXPLODED VIEW OF BIOLINE EMITTER



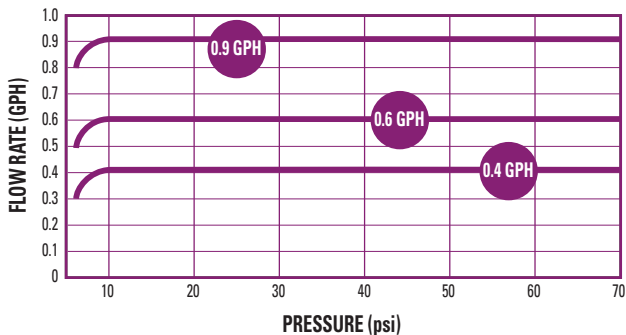
BIOLINE EMITTER OPERATION

Bioline® dripperline emitters are pressure compensating - delivering the water uniformly into the soil for further treatment or for reuse by the landscape. These unique emitters allow the tubing to be installed on flat topography or steep slopes.

Bioline emitters are protected against microbial slime. Each emitter is impregnated with an antimicrobial agent to resist biological build-up.

Netafim emitters are 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.

DRIPPER FLOW RATE VS. PRESSURE



Between 0 and 7 psi, the dripper functions as a turbulent flow emitter, ensuring that the nominal design flow is not exceeded at system start-up.

FLOW PER 100 FEET

DRIPPER SPACING	0.4 GPH DRIPPER		0.6 GPH DRIPPER		0.9 GPH DRIPPER	
	GPH	GPM	GPH	GPM	GPH	GPM
12"	40.0	0.67	61.0	1.02	92.0	1.53
18"	26.7	0.44	41.0	0.68	61.0	1.02
24"	20.0	0.34	31.0	0.51	46.0	0.77

SPECIFYING INFORMATION

A Bioline Dripperline = **08WRAM**

SAMPLE MODEL NUMBER
08WRAM.6-24 V

1 **DRIPPER FLOW RATE**
0.4 GPH = .4
0.6 GPH = .6
0.9 GPH = .9

2 **DRIPPER SPACING**
12" = 12
18" = 18
24" = 24

3 **COIL LENGTH**
500' = V500
1,000' = V

BLANK Tubing Model Number: 250' = 08WRAM-250

ORDERING INFORMATION

FLOW RATE	DRIPPER SPACING	COIL LENGTH	MODEL NUMBER
0.4 GPH	12"	1,000' 500'	08WRAM.4-12V 08WRAM.4-12V500
0.4 GPH	18"	1,000' 500'	08WRAM.4-18V 08WRAM.4-18V500
0.4 GPH	24"	1,000' 500'	08WRAM.4-24V 08WRAM.4-24V500
0.6 GPH	12"	1,000' 500'	08WRAM.6-12V 08WRAM.6-12V500
0.6 GPH	18"	1,000' 500'	08WRAM.6-18V 08WRAM.6-18V500
0.6 GPH	24"	1,000' 500'	08WRAM.6-24V 08WRAM.6-24V500
0.9 GPH	12"	1,000' 500'	08WRAM.9-12V 08WRAM.9-12V500
0.9 GPH	18"	1,000' 500'	08WRAM.9-18V 08WRAM.9-18V500
0.9 GPH	24"	1,000' 500'	08WRAM.9-24V 08WRAM.9-24V500
Blank Tubing 17mm		250'	08WRAM-250

1" SUPER/LONG MANUAL DISC FILTER

INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

FEATURES

- A "T" shaped reinforced plastic filter with two 1" male connections.
- Filter element consists of grooved discs, mounted on a spine, forming a cylindrical filter element. The discs are compressed together by a spring located at the bottom of the filter cover.
- Screw-on filter cover.
- Resistant to chemicals and liquid fertilizers.
- Available filtration grades: 040, 080, 120, 140 and 200.



TECHNICAL DATA

FLOW RANGE	10 - 35 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	78 sq. in.
FILTERING VOLUME	36 cu. in.
LENGTH	13 13/32"
WIDTH	6 7/32"
WEIGHT	3.11 lbs.
DISTANCE BETWEEN ENDS	6 7/32"
INLET/OUTLET DIAMETER	1" Male
MAXIMUM TEMPERATURE	158° F
pH	5 - 11

MESH/MICRON

MESH	MICRON	DISC COLOR
040	400	Blue
080	200	Yellow
120	130	Red
140	115	Black
200	55	Green

INSTALLATION

1. Filter can be installed either vertically or horizontally.
2. Use Teflon tape on filter threads - Do Not Use Pipe Dope.
3. Ensure correct inlet/outlet direction.
4. When connecting filter to pipe, do not overtighten.
5. Never use spanners for tightening the filter cover.

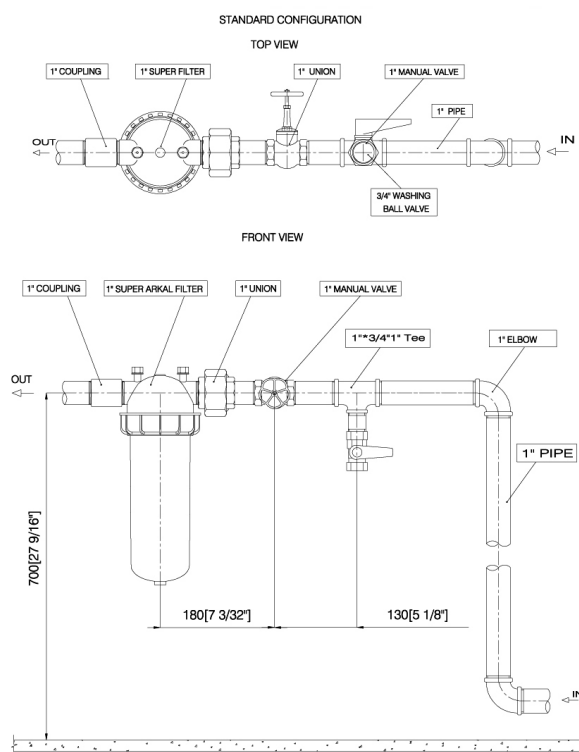
MAINTENANCE AND CLEANING

DISMANTLING

1. Ensure system is turned off and no pressure remains in the pipeline.
2. Unscrew cover from the filter body.
3. Pull out entire filter element.

CLEANING

1. Move tightening ring to end of spine and flush discs with pressurized water.
2. If discs are not clean after flushing with water:
 - a. If the discs have an accumulation of algae in the grooves, soak the discs and spine in a small bucket of Clorox bleach for one hour and then reflush with fresh water.
 - b. If the discs have an accumulation of iron in the grooves, soak the discs and spine in a small bucket of 10% Muriatic Acid for one hour and then reflush with fresh water. Muriatic Acid can be purchased at any pool supply store.



MAINTENANCE AND CLEANING

ASSEMBLY

1. Verify that spring is in place inside the filter cover.
2. Insert filter element and make sure it is seated correctly.
3. Replace cover.
4. Tighten filter cover securely by turning the fixing nut clockwise and do not overtighten.

WINTERIZATION

Drain all the water from the filter to avoid cracking due to freezing.

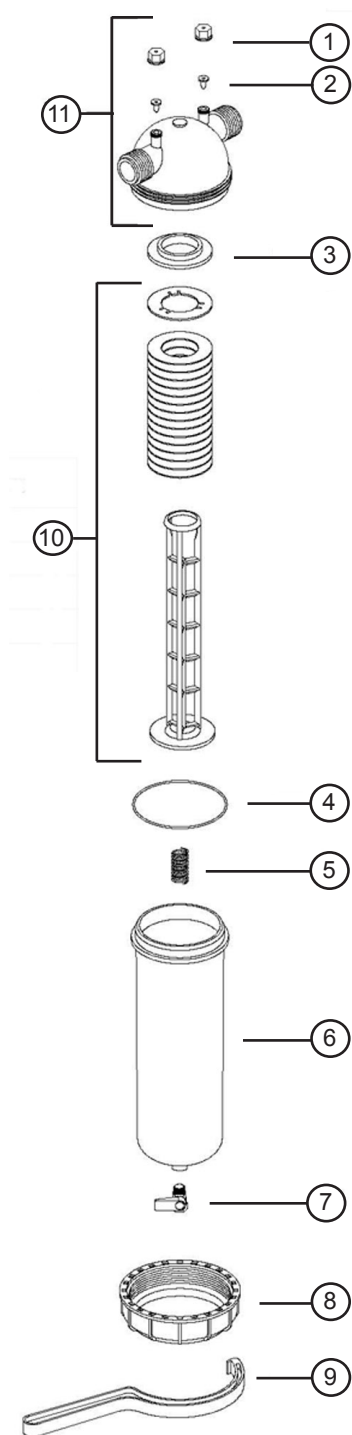
PARTS BREAKDOWN - 1" SUPER/LONG FILTER

KEY	MODEL NUMBER	DESCRIPTION	MATERIALS
1	SEE # 11	GAUGE PORT NUT	R.PP
2	SEE # 11	GAUGE PORT SEAL	EPDM
3	-	FILTER ADAPTER RING	R.PA
4	25AP531140	COVER O RING	NR
5	25AP50440011	COMPRESSION SPRING	SS
6	25AP23113	FILTER COVER	R.PA
7	-	1/4" TAP (OPTIONAL)	BRASS
8	25AP231131	FIXING NUT	R.PA
9	25AP131199	FILTER WRENCH	R.PA
10	25AP21121-***	RING SET WITH SPINE	PP
11	25AP25000101	FILTER BODY COMPLETE	-

Substitute *** for proper mesh size.

MATERIALS KEY

CODE	MATERIAL
SS	STAINLESS STEEL
PP	POLYPROPYLENE
NR	NITRILE RUBBER
R.PP	REINFORCED POLYPROPYLENE
R.PA	REINFORCED POLYAMIDE
EPDM	ETH. PROPY. RUBBER



PR-HF



The PR-HF (Pressure Regulator High Flow) is ideal for installations requiring higher flows of 10 to 32 gpm (2271 to 7268 L/hr), including solid-set sprinkler and low volume manifolds.



BSPT MODELS
ALSO AVAILABLE

FEATURES

- Senninger regulators maintain a constant preset outlet pressure with varying inlet pressures, which alleviates pressure differences that can cause an applicator’s area of coverage to change.
- Pressure tested, to ensure quality and performance
- Very low hysteresis and friction losses
- Can be installed above or below ground
- Two-year warranty on materials, workmanship and performance

PR-HF DESIGN CRITERIA	Preset Operating Pressure	Maximum Inlet Pressure	Flow Range		Inlet Sizes	Outlet Sizes
			gpm	L/hr		
PR10 HF	10 psi (0.69 bar)	90 psi (6.20 bar)	10 - 32	2271 - 7268	1/4" F NPT, 1/4" F BSPT	1" F NPT, 1/4" F NPT, 1" F BSPT, 1/4" F BSPT
PR15 HF	15 psi (1.03 bar)	95 psi (6.55 bar)	10 - 32	2271 - 7268	1/4" F NPT, 1/4" F BSPT	1" F NPT, 1/4" F NPT, 1" F BSPT, 1/4" F BSPT
PR20 HF	20 psi (1.38 bar)	100 psi (6.89 bar)	10 - 32	2271 - 7268	1/4" F NPT, 1/4" F BSPT	1" F NPT, 1/4" F NPT, 1" F BSPT, 1/4" F BSPT
PR25 HF	25 psi (1.72 bar)	105 psi (7.24 bar)	10 - 32	2271 - 7268	1/4" F NPT, 1/4" F BSPT	1" F NPT, 1/4" F NPT, 1" F BSPT, 1/4" F BSPT
PR30 HF	30 psi (2.07 bar)	110 psi (7.58 bar)	10 - 32	2271 - 7268	1/4" F NPT, 1/4" F BSPT	1" F NPT, 1/4" F NPT, 1" F BSPT, 1/4" F BSPT
PR40 HF	40 psi (2.76 bar)	120 psi (8.27 bar)	10 - 32	2271 - 7268	1/4" F NPT, 1/4" F BSPT	1" F NPT, 1/4" F NPT, 1" F BSPT, 1/4" F BSPT
PR50 HF	50 psi (3.45 bar)	130 psi (8.96 bar)	10 - 32	2271 - 7268	1/4" F NPT, 1/4" F BSPT	1" F NPT, 1/4" F NPT, 1" F BSPT, 1/4" F BSPT

The pressure regulator shall maintain the predetermined operating pressure provided that the inlet pressure is at least 5 psi (0.34 bar) above the expected outlet pressure, but not exceeding the maximum inlet pressure as shown above.

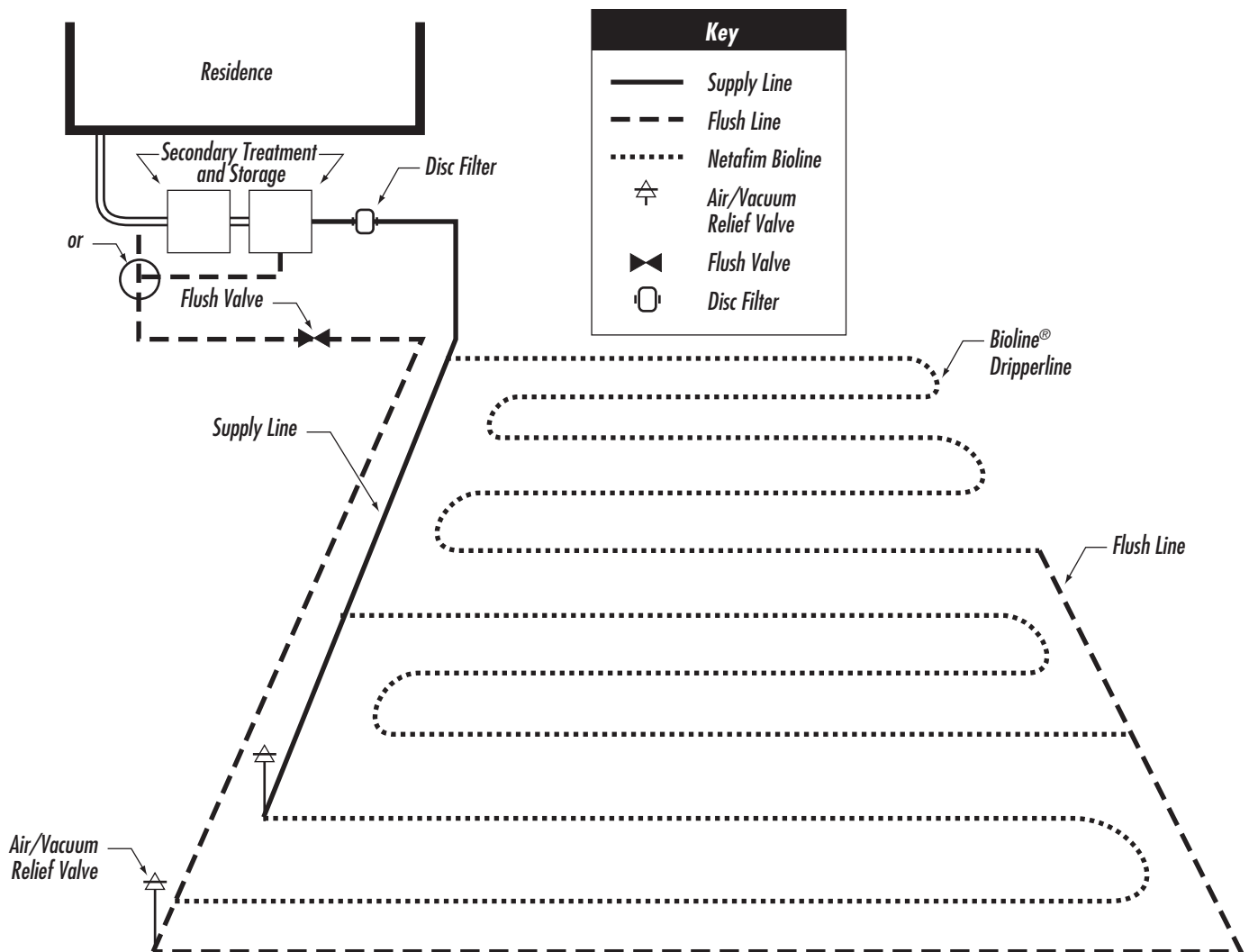
CAUTION: Always install downstream from all shut-off valves. Recommended for outdoor use only. Not NSF certified.

PRESSURE REGULATORS

IRREGULAR FIELD SHAPE LAYOUT

Triangular field with looping and varied positioning of flush manifolds:

- Used when site limitations dictate unequal dripperline length with respect to dispersal field length
- Loop the Bioline® to increase lateral length and reduce the number of connections
- Keep the Bioline laterals as close to the same length as possible to provide for an equal field flush
- The flush manifold may be located on the same or opposite side of the supply manifold
- As pictured, it may be necessary to make one or more distal end connections to the flush line on an opposing side in order to balance dripperline lateral lengths and to limit the number of connections



ArcGIS Web Map



7/15/2024, 6:07:57 PM

Permits

F

Floodplain

S

Septic

P

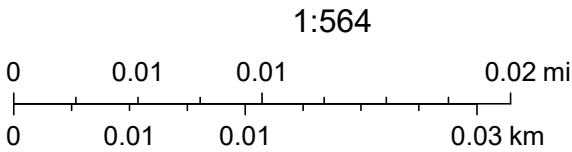
Piprow/Driveway

U

Utility

TCEQ Contributing Zone

County Maintained Roads





COMAL COUNTY

ENGINEER'S OFFICE

195 David Jonas Dr, New Braunfels, Texas 78132 (830)608-2090

Address: 1188 BLUERIDGE DR

Legal Description: Canyon Lake Hills 1, LOT 145

Dear Property Owner & Agent,

Thank you for your submission. We have reviewed the planning materials for the referenced permit application, and unfortunately, they are insufficient. To proceed with processing this permit, we require the following:

119074.pdf Markup Summary 10-30-2025

Brandon Mark Olvera (5)



Subject: Group
Page Label: 2
Checkmark: Unchecked
Author: Brandon Mark Olvera
Date: 10/30/2025 3:22:24 PM



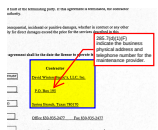
The owner needs to resign and date the application.



Subject: Group
Page Label: 3
Checkmark: Unchecked
Author: Brandon Mark Olvera
Date: 10/30/2025 3:46:23 PM



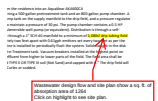
285.91(3) What is the purposed gallons per day for the property,



Subject: Group
Page Label: 8
Checkmark: Unchecked
Author: Brandon Mark Olvera
Date: 10/30/2025 3:27:06 PM



285.7(d)(1)(F) indicate the business physical address and telephone number for the maintenance provider.



Subject: Group
Page Label: 16
Checkmark: Unchecked
Author: Brandon Mark Olvera
Date: 10/30/2025 3:38:38 PM



Wastewater design flow and site plan show a sq. ft. of absorption area of 1264
Click on highlight to see site plan.



COMAL COUNTY

ENGINEER'S OFFICE

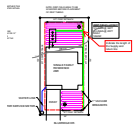
195 David Jonas Dr, New Braunfels, Texas 78132 (830)608-2090

Address: 1188 BLUERIDGE DR

Legal Description: Canyon Lake Hills 1, LOT 145

Dear Property Owner & Agent,

Thank you for your submission. We have reviewed the planning materials for the referenced permit application, and unfortunately, they are insufficient. To proceed with processing this permit, we require the following:



Subject: Group
Page Label: 17
Checkmark: Unchecked
Author: Brandon Mark Olvera
Date: 10/30/2025 3:41:07 PM



Indicate the length of the Supply and return line



COMAL COUNTY

ENGINEER'S OFFICE

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

--	--

Date Received

Initials

119074

Permit Number

Instructions:

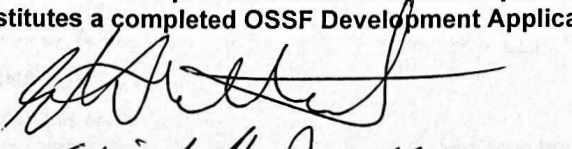
Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application Checklist must accompany the completed application.

OSSF Permit

- ☒ Completed Application for Permit for Any Construction and/or Use Subject to License to Operate
- ☒ Site/Soil Evaluation Completed by a Licensed Site Evaluator or a Professional Engineer
- ☒ Planning Materials of OSSF as required by the Title Rules of OSSF Chapter 285. Planning Materials shall consist of a scaled design of system configurations.
- ☒ Required Permit (See Attached Form)
- ☒ 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.


 Elizabeth J. Mewar
 Signature of Applicant

7/26/24

7/26/24

Date

___ COMPLETE APPLICATION

Check No. _____ Receipt No. _____

INCOMPLETE APPLICATION

___ (Missing Items Circled, Application Refused)



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 _____

Permit Number 119074

1. APPLICANT / AGENT INFORMATION

WENTWORTH STUART II TRUST & MEURER LIVING TRUST

Owner Name _____

Agent Name David Winters Septics LLC.

Mailing Address 1187 Blueridge Dr.

Agent Address P.O Box 195

City, State, Zip Canyon Lake, TX 78133

City, State, Zip Spring Branch, TX 78070

Phone # 925-203-0071

Phone # 830-935-2477

Email Stuart@Qualityproduct.com

Email Wintersseptics@gvvc.com

2. LOCATION

Subdivision Name Canyon Lake Hills Unit 145 Block _____

Survey Name / Abstr. Number _____ Page _____

Address 1188 Blueridge Dr. Canyon Lake State Zip 78133

3. TYPE OF DEVELOPMENT

☐ Single Family Residential

Type of Construction (House, Mobile Home, etc.) House

Number of Bedrooms 2

Indicate Sq Ft of Lot Area 1264

☐ 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, Restaurants, Churches, Schools, Hospitals, etc. _____

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 _____

The owner needs to
resign and date the
application.

Estimated Cost of Construction: \$ 200,000 (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

4. SIGNATURE OF OWNER

By signing this application, I certify that:

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

Signature of Owner

Date

Page 1 of 2

Revised January 2021



Planning Materials & Site Evaluation as Required Completed By Garrett R. Winters R.S

System Description Aerobic System W/ Drip Application

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

Tank Size(s) (Gallons) 600gpd

Absorption/Application Area (Sq Ft) 1264

Gallons Per Day (As Per TCEQ Table III) _____

(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 CZP? ☐ Yes ☒ No

(If yes, the R.S. or P.E. 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 the property located over the Edwards Contributing Zone? ☒ Yes ☐ No

Is there an existing TCEQ approved 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 R.S. or P.E. 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: _____



Garrett R. Winters R.S.

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.

Garrett R. Winters R.S.

Signature of Designer

7/15/2024

Date

DAVID WINTERS SEPTICS, LLC
PO BOX 195
SPRING BRANCH, TX 78070
830-935-2477 OFFICE
830-935-2477 FAX
wintersseptics@gvtc.com

Routine Maintenance and Inspection Agreement

This Work-for-Hire Agreement (hereafter referred to as this "Agreement") is entered into, by, and between
WENTWORTH STUART II TRUST & MEURER LIVING TRUST (referred to as "Client") and David Winters Septic's, LLC, Inc.
(hereafter referred to as "Contractor") located at 1188 Blueridge Dr. Date beginning on Issue Date of
and contract ending 2 years from Issue Date of License to Operate License to Operate
By this agreement the Contractor agrees to render professional service, as described herein, and the Client agrees to fulfill the
terms of this Agreement as described herein.

This agreement will provide for all required inspections, testing, and service for your Aerobic Treatment System.
The policy will include the following:

1. Three (3) inspections per year/service calls (at least one every four months), for a total of six (6) over the two-year period, including inspection, adjustment, and servicing of the mechanical, electrical, and other applicable component parts to ensure proper function. This includes inspecting and servicing the air filters, blower operation, and repairing or replacing any component found to be defective. Any additional inspections during the term of the Aerobic process will be performed within the same. This does not include labor or warranty parts.
2. An effluent quality inspection consists of a visual check of the effluent, turning the scum float and examining for odors. A test for chlorine residual will be performed and reported as necessary.
3. If any improper operation is observed, it cannot be corrected at the time of the service visit, the Client will be notified on your inspection.
4. The Client is responsible for the chlorine tablets and/or liquid chlorine; they must be filled before or during the service visit.
5. Any additional visits, inspections or sample collection required by specific Municipalities, Water/River Authorities, and County Agencies the TCEQ or any other authorized regulatory agency in your jurisdiction will not be covered by this policy.

At the conclusion of the initial service policy, our company will make available, for purchase on an annual basis, a continuing service policy cover NORMAL inspection, maintenance and repair.

The Homeowners Manual must be strictly followed or warranties are subject invalidation. Pumping of sludge build up is not covered by this policy and will result in additional charges.

This agreement does not cover any labor or parts for items which must be replaced due to acts of God, i.e., lightning strikes, high winds, flooding, freezing.

This agreement DOES NOT COVER materials or parts which must be replaced due to misuse or abuse of the system. These include but are not limited to: Sewage flows exceeding the recommended daily hydraulic design capabilities, Disposal of Non-Biodegradable materials, such as chemicals, grease or oil, sanitary napkins, tampons, baby wipes, disposable diapers, Clogs in the line between the house and the tank.

This agreement DOES NOT COVER LABOR OR PARTS for out- of- warranty items.

Service calls made outside of the regular maintenance schedule are subject to a \$75.00 SERVICE CALL FEE due at the time of service.

ACCESS BY CONTRACTOR

The contractor or anyone authorized by the contractor may enter the property at reasonable times without prior notice for the purpose of service described above.

PAYMENT AGREEMENT

The client will pay compensation to the contractor for the services in the amount of install. This compensation shall be payable in one lump sum payment upon acceptance of this agreement. Payments not received within 30 days of the above described due date will be subject to a \$25.00 late penalty.

TERMINATION OF THIS AGREEMENT

Either party may terminate this agreement within 10 days of written notice in the event of substantial failure to perform in accordance with its terms by other party without fault of the terminating party. If this agreement is terminated, the contractor will immediately notify the appropriate health authority.

LIMIT OF LIABILITY

The Contractor will not be liable for indirect, consequential, incidental or punitive damages, whether in contract or any other theory. In no event shall the Contractor's liability for damages exceed the amount for the services described in this agreement.

Permit # _____

The effective date of this initial maintenance agreement shall be the date of the date is _____

Client

WENTWORTH STUART MEURER LIVING

Name

188 Blueridge Dr.

Address

Canyon Lake, Texas (Lot 145 Canyon Lake Hills)

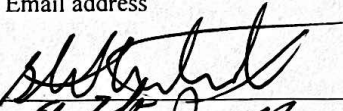
City/State/Zip Code

925-203-0071

Phone

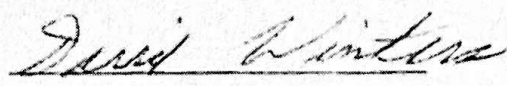
Stuart@Qualityproduct.com

Email address


Signature of Client

Office 830-935-2477

Fax 830-935-2477

By: 

Signature of Contractor

Maintenance Provider #-MP0001686

VOID

GW Septic Designs



Designs

On-Site Sewage Facility Application and Design

VOID



Garrett R. Winters R.S.

Contact Information

Phone: (210) 854-2673

Email: Gwintersseptics@gmail.com

1332 Mountain View Dr.

Canyon Lake, TX 78133

Owner/Site Location

Owner: WENTWORTH STUART

Address: 1188 BLUERIDGE DR Canyon Lake, TX 78133

Subdivision: CANYON LAKE HILLS 1

LOT: 145

LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with Drip irrigation. The sizing of the OSSF was determined as specified in the Texas Commission on Environmental Quality (TCEQ) CHAPTER 285.33 (C)(2). Water saving devices are assumed for the septic system design. This site is not within the 100-Year flood plain (see site plan). Water to the property will be serviced by a public water supply. All parts of the system will maintain at least a 10' setback from all water lines and 5' from property lines.

System Summary

This design was performed in accordance with Chapter 285 of the Texas Commission on Environmental Quality.

- 6000 Gallon Aerobic MIP treatment unit
- Motorized 12hr control timer
- 2000 Gallon submersible effluent pump
- Schedule 40 PVC sewer line
- 1" minimum 2" SCH40 supply water main
- NE 1/2" 100-micron filter
- Pressure gauge
- 30 PSI pressure regulator - Model PMR30MF
- Vacuum Breakers installed at the highest points of the drip field.
- Spin lock connectors to prevent kinking of tubing.
- Drip Tubing (Netafim Bioline)
- Visual and audio alarms monitoring high water and aerator failure placed in a noticeable location.

Wastewater Design Flow

Structure: Single Family Residence (1264sf)

of Bedrooms: 2

Wastewater Usage Rate: 180GPD

Application Rate: 0.2

Application Area Required: 900sf

Actual Application Area: 1264sf

System Components

Pretreatment Tank: 500gal

Pump Tank: 800gal

Aeration Tank: 600gpd

Pump: C1 20gpm submersible pump (Model no. 20C1-05P4-2W115 or equivalent)

Pump tank reserve minimum: 60gal

Potable Water Lines

Potable water lines must be at a minimum distance of 10 feet from OSSF components. If a water line is within 10 feet, it must be sleeved with 2" SCH40 PVC Pipe in order to provide equivalent protection of a 10' separation in compliance with TAC chapter 290, Subchapter D, Rules for Public Drinking Water Systems.



Electrical Components

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use) and have maintenance lockout provisions.

Installation

A 3" or 4" solid-wall SCH40 or SDR 26 PVC pipe with a minimum downward slope of 1/8 inch per foot will be installed between the tank and house. A 2-way cleanout must be included in the line between the house and tank. All piping from house-to-tank and tank-to-drain field must be bedded with class Ib, II, or III soils containing less than 30% gravel. The bottom of the excavation for the tank shall be level and free of large rocks/debris, the tanks shall then be bedded with a 4"-6" layer of sand, sandy loam, 3/4 dust or pea gravel. All openings in the tank are to be sealed to prevent the escape of wastewater. This permit is for after 2023, inspection and cleanout risers shall have a cover over the opening which extends a minimum of two feet above grade. A secondary pump up, or other suitable riser system shall be provided below the riser cap to prevent tank entry if the cap is known to be damaged or removed. A secondary pump up, or other suitable riser system shall be provided below the riser cap to prevent tank entry if the cap is known to be damaged or removed. Risers must be fitted with a cover over the water traps and protected against unauthorized intrusions. A suitable protective measure shall be: a padlock on a cover that is removed with

LANDSCAPING

The native vegetation in the distribution area should consist of low-level shrubs, plains grass, bluestem, or Bermuda. The entire area of the drip disposal must be covered with a ground cover such as grass seed or sod prior to the final inspection. The placement of the drip tubing will be on soil that has been scarified. The location of an individual sewage system shall not be in a poorly drained or filled area, or in any area where seasonal flooding, seeping occurs, without prior written approval. Stormwater runoff should not be allowed to flow over the drip field or tanks. Berms, swales and/or rain gutters should be installed by the owner/contractor to minimize erosion and field saturation. If the slope in the drain field area is greater than 30% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. *The drip field shall then either be seeded and covered with Curlex or sodded.*

Maintenance Contract

For any OSSF with a pump, the installer shall provide the Designated Representative with proof of an executed two-year full-service maintenance contract as required by the TCEQ. The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of the installation. The initial contract will be for a minimum of 2 years. A maintenance contract will authorize the Maintenance Company to maintain and repair the system as needed. The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.



Affidavit

Prior to issuance of a permit, a certified copy of an affidavit must be submitted to the County Clerk's office. The affidavit is a recorded file in reference to the real property deed on which the surface application is installed on the property. The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF has been severed from the property.

Proposed System

A 3- or 4-inch PVC pipe carries effluent from the residence to an Aquatic AKA6 (600GPD) aerobic treatment unit consisting of a 500-gallon treatment tank and a 100-gallon pump chamber. A threaded union is installed in the pump tank on the side manifold to the field, and a pressure regulator will be installed on the side manifold to maintain a pressure of 30 psi. The pump chamber contains a 0.5 HP Franklin C1-Series XP4-2W11 reversible wet pump (or equivalent). Distribution is through a self-flushing 100-micro Disk filter through a 1/2-inch manifold to a maximum of 1/2-inch tubing field with Netifim Bio-Plines approximately 1/2 inch apart with 1/2 inch emitters. The system is set as per the attached schematic. A 1" SCH-40 return line is installed to periodically flush the system. Solids caught in the disk filter are flushed each cycle back to the Pre-Treatment tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. The field area shall be scarified and built up with 2" of Imported TYPE II OR TYPE III soil (Not Sand) and capped with 1/2". The drip field will then either be seeded and covered with Curlex or sodded.

Wastewater design flow and site plan show a sq. ft. of absorption area of 1264
Click on highlight to see site plan.



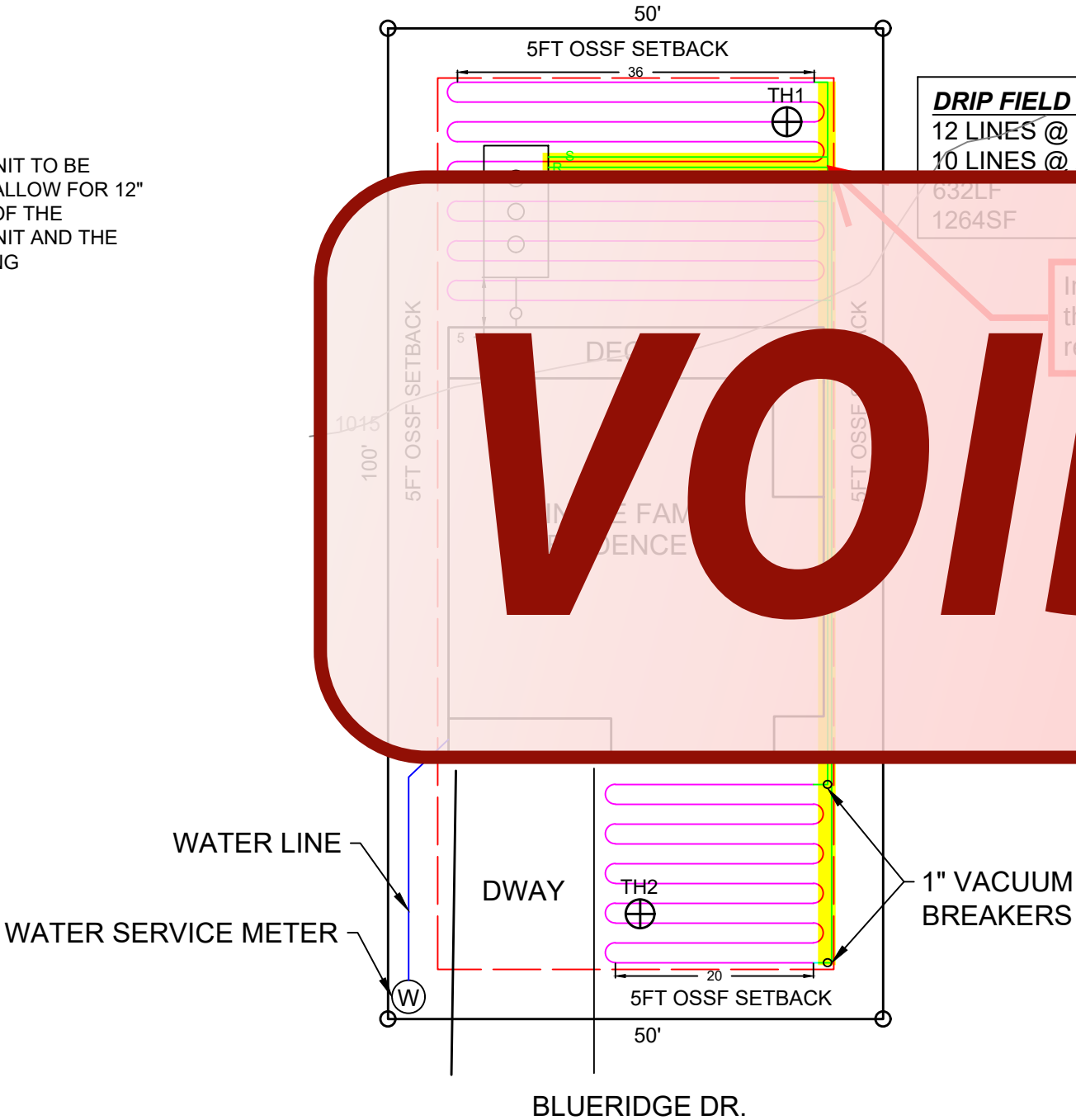
The following design is intended to follow and meet the TCEQ 30 TAC 285 OSSF Regulations. The performance of this system cannot be guaranteed even though all provisions of 30 TAC 285 have been met or exceeded.

FLOOD PLAIN: AFTER CAREFUL EXAMINATION AND STUDY OF AVAILABLE DATA (INCLUDING FEMA PANEL ZONE X (AREA OF MINIMAL FLOOD HAZARD) I HAVE DETERMINED, TO THE BEST OF MY ABILITY, THAT NEITHER THE HOUSE NOR THE SEPTIC IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN.

NOTE

AEROBIC TREATMENT UNIT TO BE BURIED AT A DEPTH TO ALLOW FOR 12" OF SOIL BETWEEN TOP OF THE AEROBIC TREATMENT UNIT AND THE BOTTOM THE DRIP TUBING

NOTE: DRIP FIELD AREA TO BE SCARIFIED BEFORE PLACEMENT OF DRIP TUBING



OSSF INFORMATION

- STRUCTURE: 1262SF
- BEDROOMS: 2
- DAILY WASTEFLOW: 180GPD
- TANK MANUFACTURER: AQUAKLEAR AKA600CA
- MINIMUM DRIP FIELD COVERAGE: 900SF
- ACTUAL COVERAGE AREA: 1264SF

NOTES

- ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY PART OF THE OSSF
- TANK SEWER PIPE MUST HAVE AT MINIMUM .25" FALL PER 1'
- USE 3" OR 4" SCH40 PIPE TO CONNECT STRUCTURE TO TANK
- VACUUM BREAKERS ARE TO BE PLACED AT THE HIGHEST POINT ON THE SUPPLY AND RETURN LINES
- NO VEHICLE TRAFFIC IS TO BE ON ANY PART OF THE DISPOSAL AREA
- SYSTEM SHALL INCLUDE AUDIO AND VISUAL ALARMS TO INDICATE HIGH WATER AND AIR
- ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION
- ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL FIELDS. CLAY LOAM IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS. DIVERSION BERMS, SWALES AND/OR RAIN GUTTERS SHOULD BE INSTALLED AS NECESSARY TO PREVENT SUCH RUNOFF.
- THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRAINAGE, BUILDING AND/OR WATER USAGE, MAY CAUSE PREMATURE FAILURE AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER
- THIS SITE PLAN IS EXPRESSLY INTENDED FOR ON-SITE SEWAGE FACILITY (OSSF) USE ONLY AND SHOULD NOT BE UTILIZED OR CONSTRUCTED FOR SURVEYING PURPOSES. ITS PURPOSE IS TO ACCURATELY REPRESENT THE LAYOUT AND DESIGN OF THE SEWAGE SYSTEM WITHIN THE SPECIFIED PROPERTY BOUNDARIES FOR REGULATORY AND OPERATIONAL COMPLIANCE.

PREPARED BY: GARRETT R. WINTERS
R.S #5213

OWNER: WENTWORTH STUART

ADDRESS: 1188 BLUERIDGE DR
Canyon Lake, TX 78133
SUBDIVISION: CANYON LAKE HILLS 1
LOT: 145

DATE	DESCRIPTION	REV#



SCALE:1"- 16'

DATE: 7/15/2024





COMAL COUNTY

ENGINEER'S OFFICE

195 David Jonas Dr, New Braunfels, Texas 78132 (830)608-2090

Address: 1188 Blueridge

Legal Description: Canyon Lake Hills 1, LOT 145

Dear Property Owner & Agent,

Thank you for your submission. We have reviewed the planning materials for the referenced permit application, and unfortunately, they are insufficient. To proceed with processing this permit, we require the following:

119074.pdf Markup Summary 11-13-2025

Group (1)



Subject: Group
Page Label: Water Line Variance
Checkmark: Unchecked
Author: Brandon Mark Olvera
Date: 11/13/2025 9:22:07 AM



I cannot request a variance to 290.44(e)(8). If TAC 290 requirements cannot be met, then it will be a variance to 285.91(10).

Line (1)



Subject: Line
Page Label: Water Line Variance
Checkmark: Unchecked
Author: Brandon Mark Olvera
Date: 11/13/2025 9:28:31 AM



The variance should also include the crossing of sewer pipes and waterlines.

Received

Brandon Mark Olvera

11/13/2025 9:26:03 AM

GW Designs
Garrett R. Winters

(210) 854-2673

November 23, 2025
Comal County Engineers Office
195 Jonas Dr.
New Braunfels, TX 78132

RE- Septic Design
1188 Blueridge Dr.
Canyon Lake, TX 78133

The variance should also include the crossing of sewer pipes and waterlines.

Brenda/Brandon

I am requesting a variance for a water line that is within 10ft of the OSSF drip field, and supply/return lines. The variance is being requested due to lack of space on this particular lot, equivalent protection will be maintained by sleeving the water line with 2" SCH 40 PVC pipe where it is within 10' of the OSSF collection line. I hereby request a variance to Chapter 285 Table X & 290.44(e)(8) for my proposed installation in this variance which poses no threat to the environment or public health.

Please feel free to contact me if you have any questions or concerns.

Sincerely,

Garrett R. Winters R.S.
#5213

I cannot request a variance to 290.44(e)(8). If TAC 290 requirements cannot be met, then it will be a variance to 285.91(10).



A handwritten signature in black ink, appearing to read "Garrett Winters", followed by the initials "R.S." to the right.

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.

CORRECTION SPECIAL WARRANTY DEED

Date: July 19, 2023

Grantor: STUART WENTWORTH, A SINGLE PERSON

Grantor's Mailing Address:

1187 Blueridge Dr.
Canyon Lake, Texas 78133

Grantee: STUART H. WENTWORTH, TRUSTEE, OR HIS SUCCESSORS IN INTEREST, OF THE STUART H. WENTWORTH TRUST DATED MAY 2, 2016, AND ANY AMENDMENTS THERETO

Grantee's Mailing Address:

1187 Blueridge Dr.
Canyon Lake, Texas 78133

Consideration:

TEN and NO/100 DOLLARS (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged.

Property (including any improvements):

An undivided ½ interest in Lots 114R, 116, 117, 144, 145, and 146, Canyon Lake Hills Unit 1, according to the map or plat recorded in Volume 2, Page 17, Comal County Texas, Map and Plat Records.

THIS CORRECTION SPECIAL WARRANTY DEED IS EXECUTED AND DELIVERED IN LIEU AND SUBSTITUTION OF A SPECIAL WARRANTY DEED DATED JULY 14, 2023, RECORDED IN DOCUMENT NUMBER 202306022652 ON JULY 18, 2023, AND IS IN CORRECTION OF AN ERROR IN THE NAME OF THE GRANTEE, STUART H. WENTWORTH, TRUSTEE, OR HIS SUCCESSORS IN INTEREST, OF THE STUART H. WENTWORTH TRUST DATED MAY 2, 2016, AND ANY AMENDMENTS THERETO, OF THE PREVIOUSLY FILED SPECIAL WARRANTY DEED. THIS INSTRUMENT IS MADE BY GRANTOR IN ORDER TO CORRECT SAID MISTAKE AND IN ALL OTHER RESPECTS CONFIRMING

SAID FORMER SPECIAL WARRANTY DEED.

Reservations from Conveyance:

None

Exceptions to Conveyance and Warranty:

Validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing instruments, other than conveyances of the surface fee estate, that affect the Property; and taxes for 2023, which Grantee assumes and agrees to pay, and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes.

Grantor warrants that Grantor is lawfully seized of good and indefeasible title to the Property and has the right to convey title to the Property subject to any Reservations or Exceptions from Conveyance contained herein.

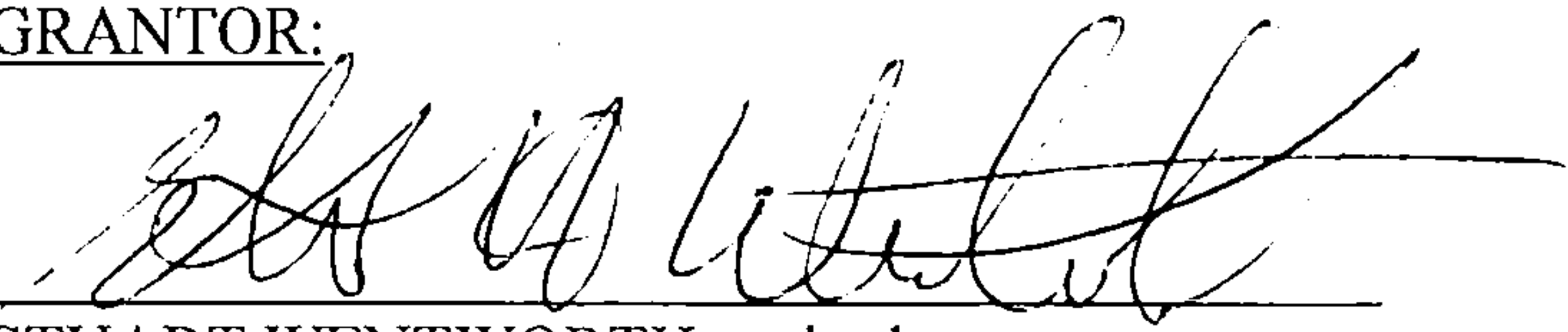
Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, gives, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof when the claim is by, through, or under Grantor but not otherwise, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

GRANTEE IS TAKING THE PROPERTY IN AN ARM'S-LENGTH AGREEMENT BETWEEN THE PARTIES. THE CONSIDERATION WAS BARGAINED ON THE BASIS OF AN "AS IS, WHERE IS" TRANSACTION AND REFLECTS THE AGREEMENT OF THE PARTIES THAT THERE ARE NO REPRESENTATIONS OR EXPRESS OR IMPLIED WARRANTIES. GRANTEE HAS NOT RELIED ON ANY INFORMATION OTHER THAN GRANTEE'S INSPECTION.

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

This instrument has been prepared based upon information provided by the parties and no independent title search has been made.

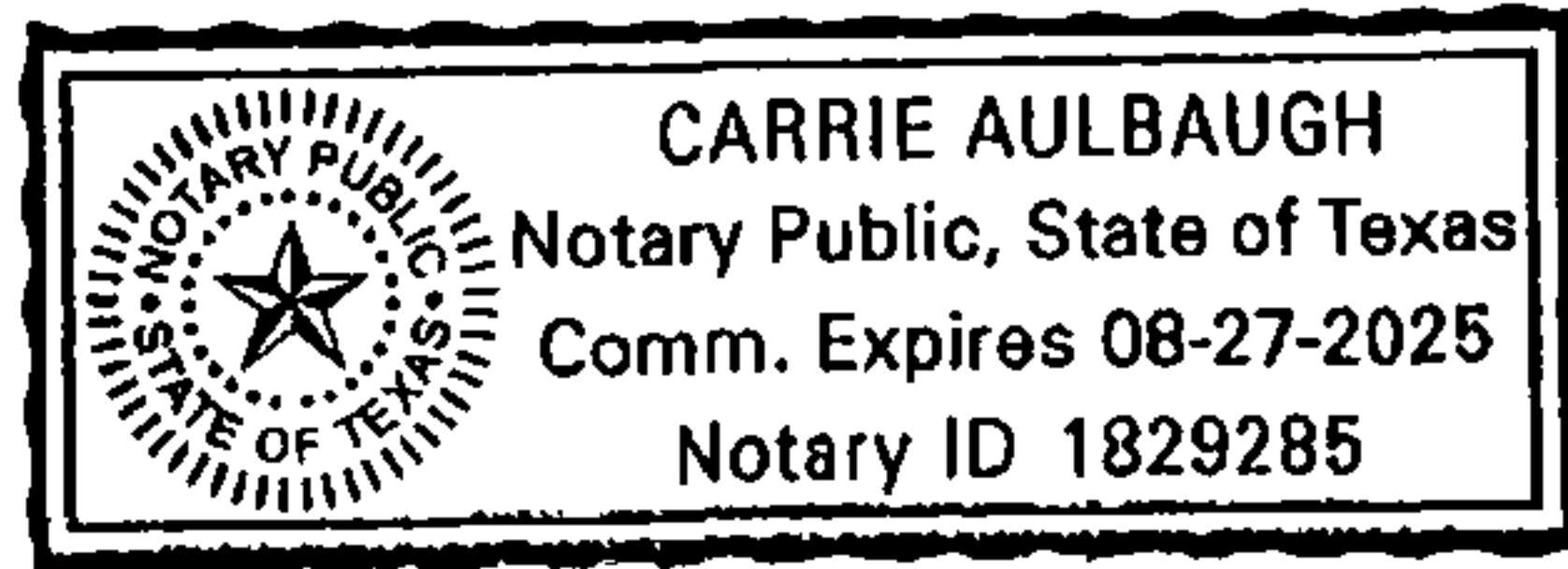
GRANTOR:


STUART WENTWORTH, a single person

STATE OF TEXAS)

COUNTY OF COMAL)

This instrument was acknowledged before me on July 19, 2023, by Stuart Wentworth in the capacity stated above.



Carrie Aulbaugh
Notary Public, State of Texas
My commission expires: 08-27-25

PREPARED IN THE OFFICE OF:

DAVIDEK LAW FIRM, PLLC
228 S. Seguin Avenue
New Braunfels, Texas, 78130
Telephone: (830) 515-5854

AFTER RECORDING RETURN TO:

DAVIDEK LAW FIRM, PLLC
228 S. Seguin Avenue
New Braunfels, Texas, 78130
Telephone: (830) 515-5854

**Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
07/19/2023 11:14:02 AM
TERRI 3 Pages(s)
202306022935**



Bobbie Koepp

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

Special Warranty Deed

Date: July 14, 2023

Grantor: ELIZABETH MEURER, A SINGLE PERSON

Grantor's Mailing Address:

1187 Blueridge Dr.
Canyon Lake, Texas 78133

Grantee: ELIZABETH J. MEURER, TRUSTEE, OR HER SUCCESSORS IN INTEREST, OF THE MEURER LIVING TRUST DATED JULY 14, 2023, AND ANY AMENDMENTS THERETO

Grantee's Mailing Address:

1187 Blueridge Dr.
Canyon Lake, Texas 78133

Consideration:

TEN and NO/100 DOLLARS (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged.

Property (including any improvements):

An undivided ½ interest in Lots 114R, 116, 117, 144, 145, and 146, Canyon Lake Hills Unit 1, according to the map or plat recorded in Volume 2, Page 17, Comal County Texas, Map and Plat Records.

Reservations from Conveyance:

None

Exceptions to Conveyance and Warranty:

Validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing instruments, other than conveyances of the surface fee estate, that affect the Property; and taxes for 2023, which Grantee assumes and agrees to pay,

and subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantee assumes.

Grantor warrants that Grantor is lawfully seized of good and indefeasible title to the Property and has the right to convey title to the Property subject to any Reservations or Exceptions from Conveyance contained herein.

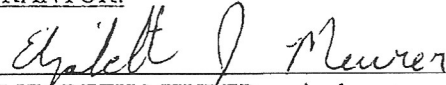
Grantor, for the Consideration and subject to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty, grants, gives, and conveys to Grantee the Property, together with all and singular the rights and appurtenances thereto in any way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof when the claim is by, through, or under Grantor but not otherwise, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

GRANTEE IS TAKING THE PROPERTY IN AN ARM'S-LENGTH AGREEMENT BETWEEN THE PARTIES. THE CONSIDERATION WAS BARGAINED ON THE BASIS OF AN "AS IS, WHERE IS" TRANSACTION AND REFLECTS THE AGREEMENT OF THE PARTIES THAT THERE ARE NO REPRESENTATIONS OR EXPRESS OR IMPLIED WARRANTIES. GRANTEE HAS NOT RELIED ON ANY INFORMATION OTHER THAN GRANTEE'S INSPECTION.

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

This instrument has been prepared based upon information provided by the parties and no independent title search has been made.

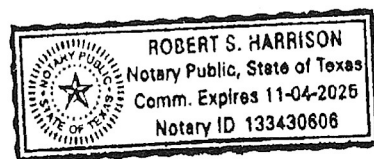
GRANTOR:

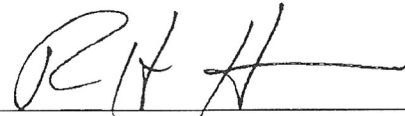

ELIZABETH MEURER, a single person

STATE OF TEXAS)

COUNTY OF COMAL)

This instrument was acknowledged before me on July 14, 2023, by Elizabeth Meurer in the capacity stated above.




Notary Public, State of Texas
My commission expires: 11-4-25

PREPARED IN THE OFFICE OF:

DAVIDEK LAW FIRM, PLLC
228 S. Seguin Avenue
New Braunfels, Texas, 78130
Telephone: (830) 515-5854

AFTER RECORDING RETURN TO:

DAVIDEK LAW FIRM, PLLC
228 S. Seguin Avenue
New Braunfels, Texas, 78130
Telephone: (830) 515-5854

Meurer, E- COMAL SWD

**Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
07/18/2023 12:21:52 PM
LAURA 3 Pages(s)
202306022653**



Bobbie Koepp