



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: 118026
Issued This Date: 12/02/2024
This permit is hereby given to: YOUR SWEET HOME LLC

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

1130 GREEN HILL DR
CANYON LAKE, TX 78133

Subdivision: CANYON LAKE HILLS
Unit: 1
Lot: 192
Block: NA
Acreage: 0.1200

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

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

		118026
<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.

Firmado por:

YOUR SWEET HOME W (DIEGO MAVEJA)

8/23/2024

Signature of Applicant

Date

___ COMPLETE APPLICATION Check No. _____ Receipt No. _____

INCOMPLETE APPLICATION (Missing Items Circled, Application Refeused)



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 8/23/2024

Permit Number 118026

1. APPLICANT / AGENT INFORMATION

Owner Name YOUR SWEET HOME, LLC
Mailing Address 1130 Green Hill Dr.
City, State, Zip CANYON LAKE TX 78133
Phone # 54-332-506-7155
Email DIEGO.NAVEJA98@GMAIL.COM

Agent Name Nicholas Kolbe
Agent Address 1825 FM 2438
City, State, Zip SeguinTX 78155
Phone # 830-708-9065
Email KolbeLandCo@Gmail.com

2. LOCATION

Subdivision Name CANYON LAKE HILLS Unit 1 Lot 192 Block _____
Survey Name / Abstract Number _____ Acreage _____
Address 1130 Green Hill Dr. City CANYON LAKE State TX Zip 78133

3. TYPE OF DEVELOPMENT

Single Family Residential
Type of Construction (House, Mobile, RV, Etc.) RESIDENTIAL HOME
Number of Bedrooms 3
Indicate Sq Ft of Living Area <2500

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: \$ 280,000 (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.

YOUR SWEET HOME LLC (DIEGO NAVEJA) 8/23/2024

Signature of Owner A4CF394AB68F4E0...

Date



COMAL COUNTY
ENGINEER'S OFFICE

ON-SITE SEWAGE FACILITY APPLICATION

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

Planning Materials & Site Evaluation as Required Completed By Nicholas Kolbe

System Description Aerobic Treatment with DRIP DISTRIBUTION

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

Tank Size(s) (Gallons) NUWATER B550 (600 GPD ATU) Absorption/Application Area (Sq Ft) 1386 FT²

Gallons Per Day (As Per TCEQ Table III) 240

(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.)

Is there at least one acre per single family dwelling as per 285.40(c)(1)? Yes No

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: NA

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

10.21.24
Date

2K

AFFIDAVIT TO THE PUBLIC



202406029273 09/26/2024 11:35:30 AM 1/2

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 (commission) 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):

LOT 192, CANYON LAKE HILLS, UNIT NO. 1,

The property is owned by (insert owner's full name):
YOUR SWEET HOME, LLC

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.

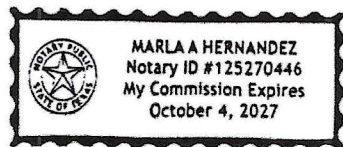
WITNESS BY HAND(S) ON THIS 26th DAY OF Sept, 20 24

AN Alejandro Nuneja Acosta
[Signature]

Owner(s) signature(s)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 26th DAY OF Sept, 20 24

[Signature]
Notary Public, State of Texas





This page has been added to comply with the statutory requirement that the clerk shall stamp the recording information at the bottom of the last page.

This page becomes part of the document identified by the file clerk number affixed on preceding pages.

Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
09/26/2024 11:35:30 AM
TRACY 2 Page(s)
202406029273



Bobbie Koepf

RECEIVED

By Brandon Olvera at 4:05 pm, Dec 02, 2024

ALWAYS ON THE LEVEL EXCAVATING LLC

Mike Dunn, Owner/Operator

PO Box 993, Boerne, Texas 78006

Email: mikedunn.alwaysonthelevelseptic@gmail.com

OSSF# OS0008099 MP #0682

Physical address only, mail is not received at the following address: 27 Ernst Rd., Boerne, TX 78006

System Service Policy

This agreement entitles:	Jason Dean	County:	Comal
(Print name and address)	1130 Greenhill Dr	Permit:	_____
	Canyon Lake TX 78133	Installation Date:	_____
		Date License to Operate Issued:	_____

to the following service for 24 months from the date of issuance of License to Operate or upon expiration of existing contract. *The effective date of this initial maintenance contract shall be the date the License to Operate is issued.*

Upon receipt of License to Operate for 2 years / *Quarterly Visits 3 per year*

MIKE DUNN DBA ALWAYS ON THE LEVEL EXCAVATING agrees to perform the following services during the term of this agreement. It is the Homeowners responsibility to see that the chlorinator is stocked with chlorine. This contract does not include the cost of the chlorine, parts, labor or services that cannot be warranted, such as Acid Washing Airstones. *DN (initial)*

The Effluent Pump is warranted for 2 years. After 1 year, repairs costing less than \$100.00 will be made after attempts to gain customer consent have failed. *DN (initial)*

PLANT SERVICE

- *Inspection, adjustment, and cleaning of aerator.
 - *Inspection and adjustment of all control settings and overload protection.
 - *Inspection of pump, chlorinator, sprinkler heads, spray area, and test chlorine and report conditions.
 - *If special arrangement are requested (i.e. call ahead, appt., etc.) there will be an additional charge.
 - *Additional Service as ordered including replacement of components, laboratory test work, and pumping of unit or trash-tank will be done upon authority from customer at an additional charge.
- Important:** This service agreement does not cover the cost of service calls, labor or materials which are required due to misuse or abuse of the system; failure to maintain electrical power to the system; disposal of non-biodegradable materials, chemicals, solvents, grease, oil, paint, etc.; or any uses contrary to the Violations of Warranty including shutting off the electrical current to the system for more than 24 hours, disconnecting the alarm system, restricting ventilation

EMERGENCY SERVICE

- *Two emergency service calls per year at no charge (service call only - does not include parts or labor)
- *Any warranted parts or labor will be covered according to the manufacturers warranty program. Freight charges to and from the manufacturer will be billed to the homeowner.

We will respond to Homeowner's concerns within 3 working days.

This contract will expire two years from the initial installation date.

This contract is not transferable. Homeowner's signature below gives Always On The Level Excavating and/or its representative permission to enter property and perform duties as outlined above.

54-332-506-7155

Home Telephone

Diego Naveja
Owner's Signature

Date 10-21-24

(Please sign, date, and return one copy)

Work Telephone

Michael C Dunn
Accepted for Always On The Level Excavating

10-22-24

Date

Cell Phone

Diego.Naveja98@gmail.com

Email

Gate Code: _____

Retired & 62+ _____

OSSF Soil & Site Evaluation

8/23/2024

Page 1 (Soil & Site Evaluation)

Date Performed: ___/___/___

Property Owner: YOUR SWEET HOME LLC

Site Location: 1130 GREEN HILL DR. CANYON LAKE TX 78133 Proposed Excavation Depth: NA

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: <u>1 - 2</u>					
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.	III, CLAY LOAM	NA	WELL DRAINED	ROCK @ 10"	AEROBIC DRIP .
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.					
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 1 %

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)

8/26/2024
 (Date)

OS0036987
 Registration Number and Type

Site Location: 1130 GREEN HILLS DR. CANYON LAKE TX 78133 Subsurface Disposal Surface Disposal

Schematic of Lot or Tract

Show:

Compass North, adjacent streets, property lines, property dimensions, location of buildings, easements, swimming pools, water lines, and any other structures where known.

Location of existing or proposed water wells within 150 feet of the property.

Indicate slope or provide contour lines from the structure to the farthest location of the proposed disposal field.

Location of soil boring or excavation pits (show location with respect to a known reference point).

Location of natural, constructed, or proposed drainage ways (ditches, streams, ponds, lakes, rivers, etc.), water impoundment areas, cut or fill bank, sharp slopes and breaks.

Lot Size: _____ or Acreage: 0.12

SITE DRAWING



Comments

Add Comment Sort ▲

▼ **callen** **11/12/2024 1:52 PM**

2 probes at 12 inches. Only able to locate one property pin

Close

CCEO
COPY

Nicholas Kolbe, R.S., S.E.
1825 FM 2438 Seguin, Texas 78155
Mobile 830-708-9065 KolbeLandCo@gmail.com

OSSF DESIGN

Owner: Your Sweet Homes LLC Location: 1130 GREEN HILL Dr. Canyon Lake TX 78133 Phone: Date: 10/15/2024
--

Development: **Single Family Residence** Bedrooms: **3** SQFT=**<2500** GPD = **240**
Total GPD= **240**

GPD: **240** Soil: **Type 3(III)** Ra: **0.20 gall/ft²/day** Q=**240**

Design Q: **240 gpd**
System Type: **Aerobic Treatment & Drip Disposal**

Minimum Required ATU Capacity: **360 GPD ATU**
Designed ATU: **600 gpd (NuWater B550)**

ATU: **NuWater B550** Dripline: **Netafim Bioline 0.62**

Dripline Spacing: **2'** Emitter Spacing: **24"** Emitter Flow Rate (F): **0.62 gph**

Total Absorption Area Required (A): **1200ft²** (Q/R_a) Total Length Dripline Required (L): **600 ft** (A/2)

Total Length Dripline Designed: **693 ft** Total Absorption Area Designed: (L)(2 ft) **1386ft²**

Total Number Emitters (E): **346** (L/2) Dripline Flow Rate: **3.58 gpm** (E)(F)/(60 min/hr)

Dosing Duration: **9min** (6 -15 min) Dosing Volume: **32.22 gall/dose** (Duration)(Dripline Flow Rate)
Total Dose Vol. over 24 Hrs = Dose Every 3 Hours = 8 Doses a Day = **(257.79 Gallons over 24hrs)**

Doses Per Day: **8** (Q/Dosing Volume) Dosing Interval: **3 hrs**

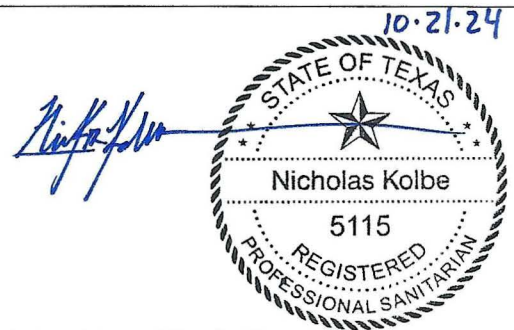
Supply Line: **Sch 40, 1" purple (~160')** Flush Line: **Sch 40, 1" purple (~160)**

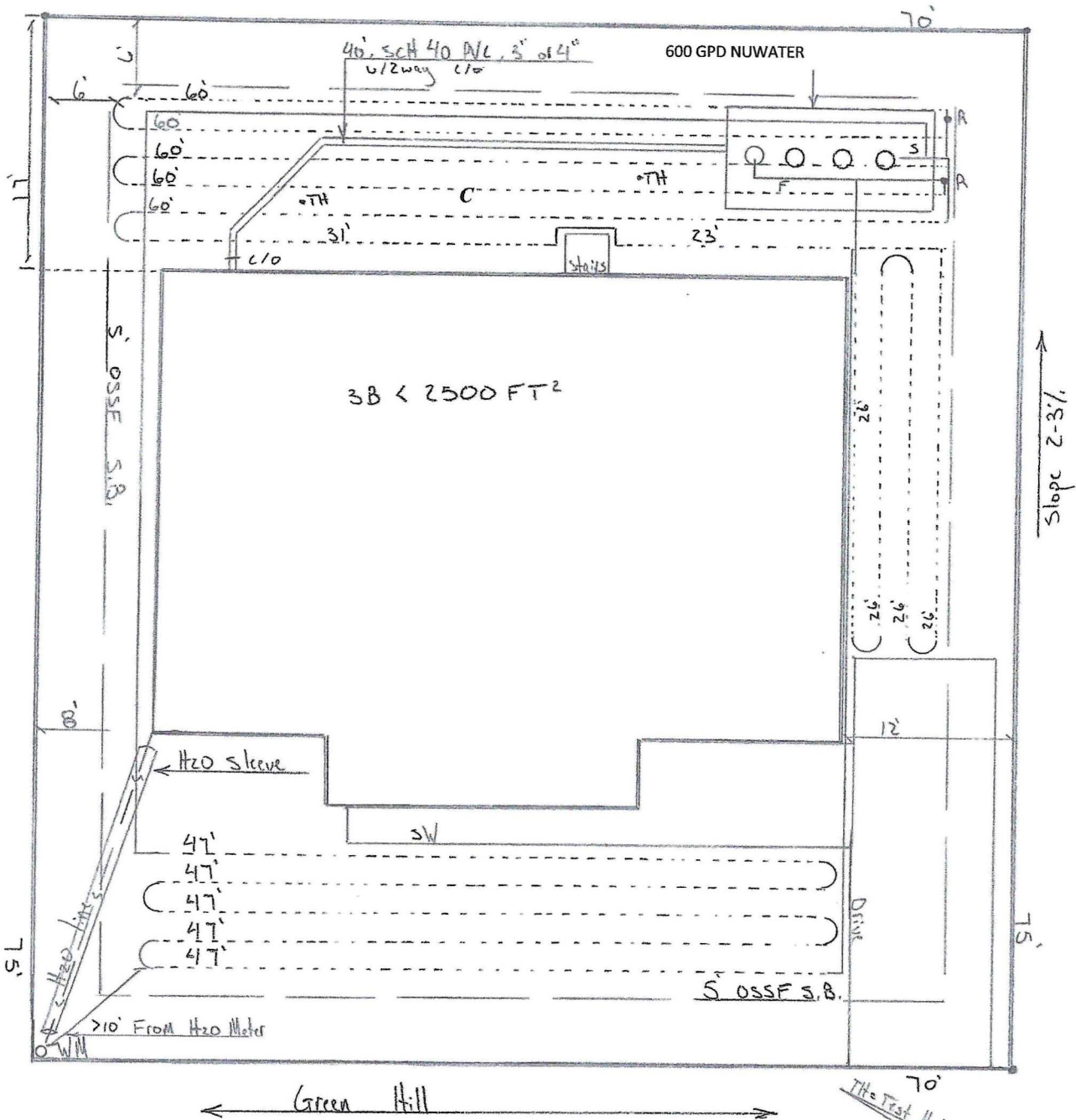
Filter: **100-130 micron disc filter, manual flush** Flush Valve: **1" Ball Valve**

Disinfection: **NA**

****Pressure Gauge and hose bib installed in the pump tank on the manifold to maintain pressure of 40 PSI****

Pump Used: **StaRite 0.50 HP, 20 gpm or equivalent**





Lot: LOT 192, CANYON LAKE HILLS UNIT NO. 1 IN COMAL COUNTY TX.

Property is Not located within 100YR Flood Plain.
Property is Located in the Edwards Aquifer Contribution zone, not the recharge zone.

SITE PLAN & OSSF DESIGN:

Your Sweet Homes LLC 1130 GREEN HILL DR. Canyon Lake TX 78133	
Nicholas Kolbe, R.S. #5115	Date: 8/22/2024
1825 FM 2438	Scale: 1" = 20'
Seguin TX 78155	

C = 458' of drip distribution field. 2 runs total. 2 connections to supply line (S) and 2 Connections to flush line (F).

S = Supply Line

F = Flush Line

R = Vacuum Relief Valves

Contributing Zone Plan (CZP) Notes

A CZP is not required for this house location because the home is a single-family dwelling with less than 20% impervious cover



NOTES

1. *This system is designed for a maximum of 240 gall of wastewater flow per day on a 3 bedroom, <2500sqft home. Exceeding this volume may result in system failure.*
2. *System designed as a mounded aerobic drip system. Soil brought to site shall be type 2 (sandy Loam) and the drainfield shall be sized on the absorption rate for type 3 soil.*
3. Install a NUWATER B550. Audible and visual high-water alarms, external disconnect within site of the pump tank, pump and alarms on separate breakers and external wiring in conduit required. TANK SHALL BE BURRIED A MINIMUM OF 12"-18".
4. Install a 2-way cleanout in a 3" or 4" tightline from the house to the ATU, minimum slope 1/8 in/ft. Minimum 5' from home to tank edge.
5. The native soil shall be scarified and built up inside field area and 1'-2' beyond the edges with a minimum of 2" of type II soil.
6. Then drip tubing will be laid and a minimum of 6" of type 2 sandy loam soil shall be placed over the dripfield area and a minimum of 1'-2' beyond the edges. **NOT SAND**. Total of 8" minimum of soil brought to site (MINIMUM OF 12" OF SOIL REQUIRED BETWEEN DRIP TUBING AND BEDROCK).
7. Install 693' of Netafim 0.62 gph dripline on top of the imported soil, 2' apart. No single lateral shall exceed 300' in length. All loops in the dripline shall be flexible PVC.
8. Design is for 3 total runs. 1 = 240' 2 = 218' 3 = 235
9. **TIGHTLINE AROUND THE STAIRS. SEE DESIGN.**
10. **The water line and drip field are unable to stay separated by 10' as per TAC 285.7 (d)(1)(D). See below variance request (no. 11)**
11. **A variance is requested to vary from above referenced code. To acquire the same protection as outlined in said code. SLEEVE WATER LINE FROM METER TO HOME. SLEEVE SHALL BE A MINIMUM 2" SCH 40 PVC. DRIP FIELD SHALL STAY A MINIMUM OF 10' FROM WATER METER AT ROAD.**
12. Supply (S) and Flush (F) lines shall be 1" purple sch 40 PVC. A 100-130 micron disc filter shall be installed in the supply line inside the pump chamber. A 1" ball valve shall be installed on the flush line and shall be located in the tank or in a valve box. This valve shall be used to open the flush line periodically to flush the drip lines (OTHER THAN WHEN FLUSING SYTEM, VALVE SHALL REMAIN CLOSED. PERIODIC FLUSHING. Chlorination is NOT required and the flush line shall terminate in the Pretreatment (trash chamber) of the tank. Solids caught in the disc filter are flushed each cycle back to the trash tank.
13. A vacuum relief valve (R) shall be installed on both the supply and flush lines at their **highest** points. The valves shall be located in valve boxes filled with pea gravel.
14. Install a pressure gauge and hose bib in the pump tank on the manifold to maintain pressure of 40 PSI.
15. Cover the dripfield with a minimum of 6" type 2 soil, NOT SAND. Drainfield shall be sodded with grass/seeded over/erosion blanket placed over the field prior to start up.
16. The pump shall operate on a timer set to run for 9 minute duration every 3 hours.
17. *The reserve capacity (1/3) of the daily flow for this system is 80 gallons*
18. No part of the septic system absorption field is within 150' of any sensitive recharge feature. No part of the On Site Sewage Facility treatment tank is within 50' of any sensitive recharge feature.
19. *Potable water line must maintain a 10' separation distance from OSSF (field and tank). Waterline to be sleeved in sch 40 where it is located <10' from any OSSF element or spray area in order to provide the equivalent protection of a 10' separation in compliance with TAC Chapter 290, Subchapter D, Rules for Public Drinking Water Systems.*
20. *Entirety of septic system is to stay within the setbacks and boundary lines of property.*
21. **Design and details written and drawn herein were prepared with the best available information provided to the Registered Sanitarian by the landowner and by ground truth/evaluation.**
22. **A variance is requested to place an exterior steps over the top off the drip field. See variance request for property installation and inspection of stairs/steps.**

Your Sweet Homes LLC
 1130 GREEN HILL DR.
 Canyon Lake TX 78133

Nicholas Kolbe, R.S. #5115
 1825 FM 2438
 Seguin TX 78155

Date: 8/22/2024

Scale: 1" = 20'

11-8-24

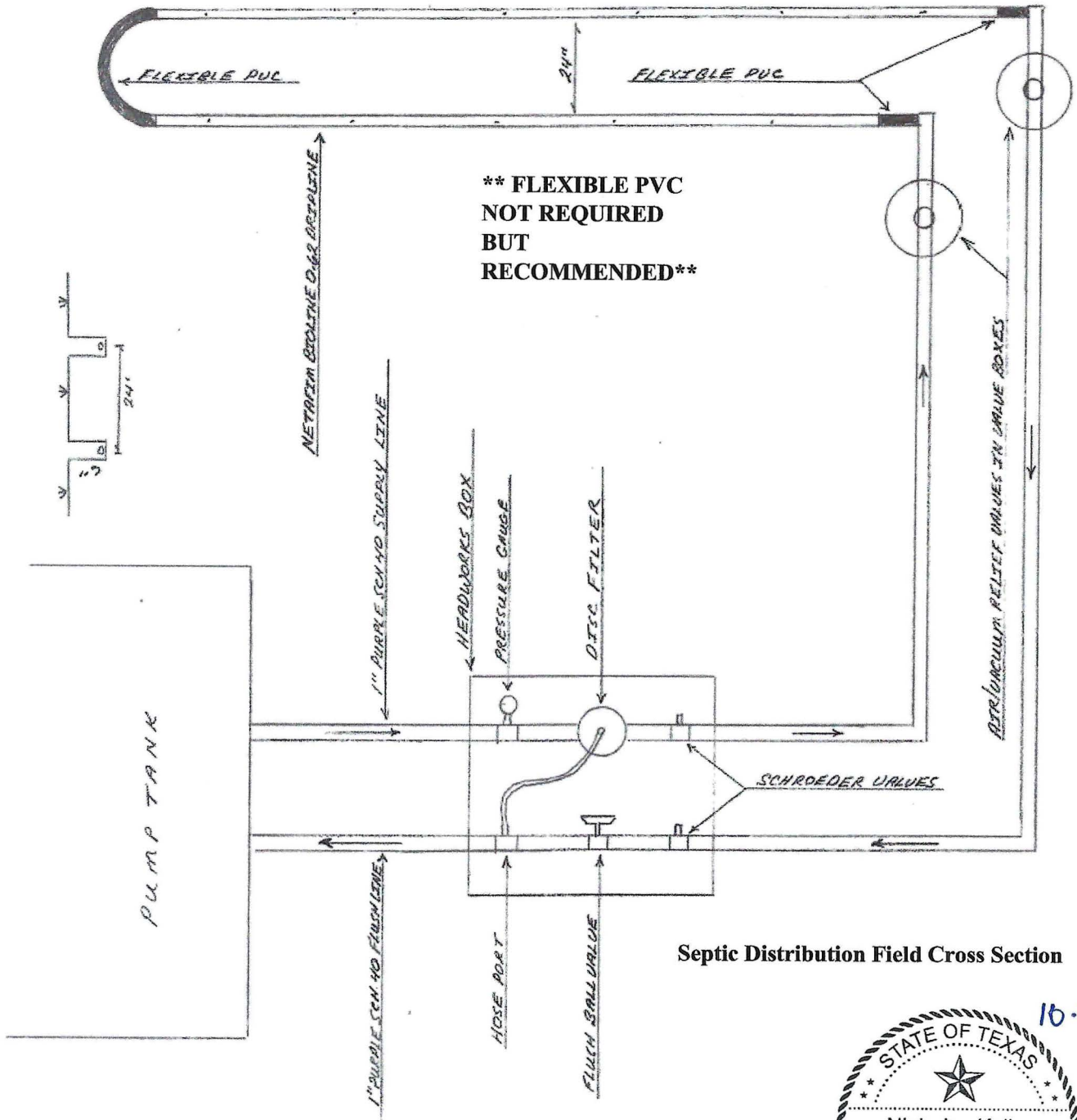
Lot: LOT 192, CANYON LAKE HILLS UNIT NO. IN COMAL COUNTY TX.

Property is Not located within 100YR Flood Plain.
 Property is Located in the Edwards Aquifer Contribution zone, not the recharge zone.

Nicholas Kolbe
 5115

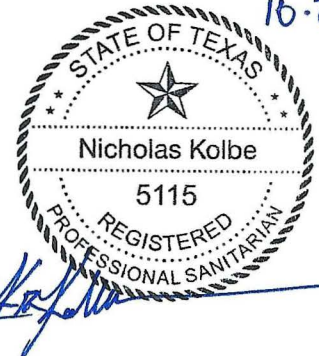
REGISTERED PROFESSIONAL SANITARIAN

SITE PLAN & OSSF DESIGN:



**** FLEXIBLE PVC
NOT REQUIRED
BUT
RECOMMENDED****

Septic Distribution Field Cross Section



Lot: LOT 192 CANYON LAKE HILLS UNIT NO. 1 IN COMAL COUNTY TX.

Property is Not located within 100YR Flood Plain.
Property is Located in the Edwards Aquifer Contribution zone, not the recharge zone.

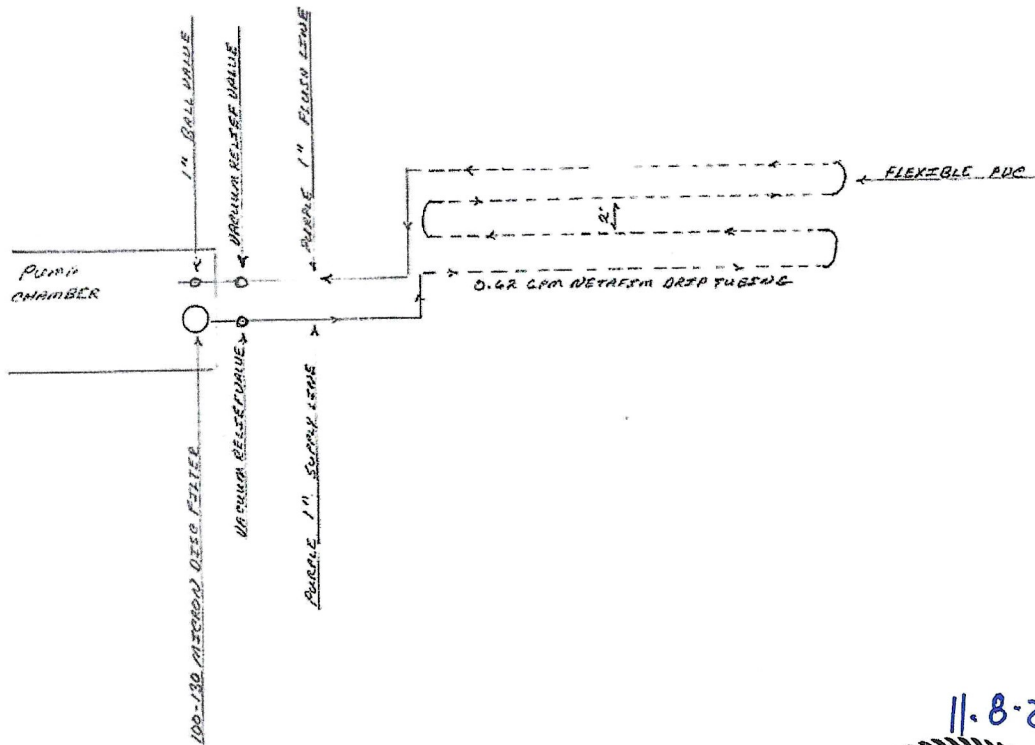
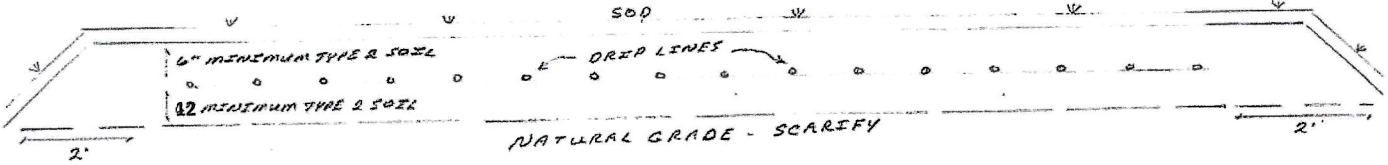
SITE PLAN & OSSF DESIGN:

Your Sweet Homes LLC 1130 GREEN HILL DR. Canyon Lake TX 78133	
Nicholas Kolbe, R.S. #5115 1825 FM 2438 Seguin TX 78155	Date: 8/22/2024 Scale: 1" = 20'

RECEIVED

By Brandon Olvera at 9:55 am, Nov 15, 2024

Septic Distribution Field Cross Section



11.8.24



Your Sweet Homes LLC 1130 GREEN HILL DR. Canyon Lake TX 78133	
Nicholas Kolbe, R.S. #5115 1825 FM 2438 Seguin TX 78155	Date: 8/22/2023 Scale: 1" = 20'

Lot: LOT 189, CANYON LAKE HILLS UNIT NO. 1 IN COMAL COUNTY TX.

Property is Not located within 100YR Flood Plain.
Property is Located in the Edwards Aquifer Contribution zone, not the recharge zone.

SITE PLAN & OSSF DESIGN:

Assembly Details

OSSF

LIQUID DEPTH = 53" 14.49 GALL/IN

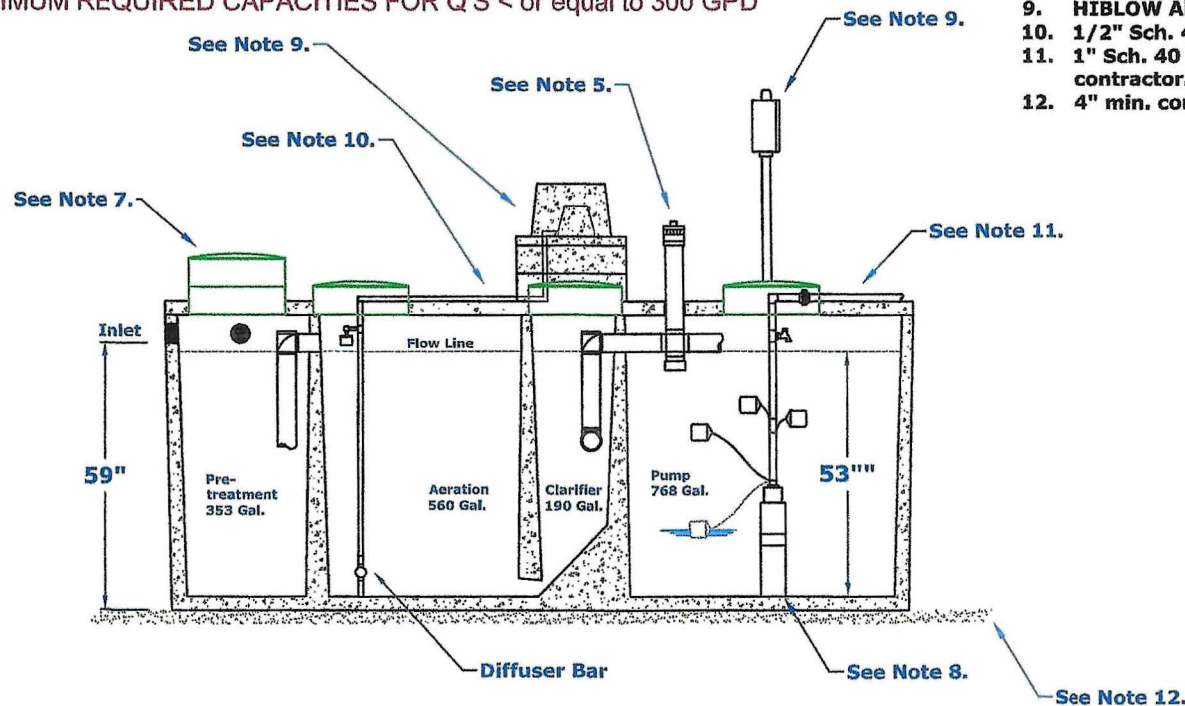
Pump Off: 8" (115.92 gallons)

Pump On: 16" (115.92 Gallons)

High Water Alarm On: 37" (304.29 Gallons)

Reserve Volume: 53" - 37" = 16" = 231.84 Gallons NEED: 100 Gallons

MINIMUM REQUIRED CAPACITIES FOR Q'S < or equal to 300 GPD



GENERAL NOTES:

1. Plant structure material to be precast concrete and steel.
2. Maximum burial depth is 30" from slab top to grade.
3. Weight = 14,900 lbs.
4. Treatment capacity is 600 GPD. Pump compartment set-up for a 360 GPD Flow Rate (4 bedroom, < 4,000 sq/ft living area). Please specify for additional set-up requirements. BOD Loading = 1.62 lbs. per day.
5. Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available.
6. Bio-Robix B-550 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec) timer available for drip applications. Electrical Requirement to be 115 Volts, 60 Hz, Single Phase, 30 AMP, Grounded Receptacle.
7. 20" Ø access riser w/ lid (Typical 4). Optional extension risers available.
8. 20 GPM 1/2 HP, high head effluent pump.
9. HIBLOW Air Compressor w/ concrete housing.
10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant).
11. 1" Sch. 40 PVC pipe to distribution system provided by contractor.
12. 4" min. compacted sand or gravel pad by Contractor

DIMENSIONS:

Outside Height: 67"
 Outside Width: 63"
 Outside Length: 164"

MINIMUM EXCAVATION DIMENSIONS:

Width: 76"
 Length: 176"

**NuWater B-550 (600 GPD)
 Aerobic Treatment Plant (Assembled)**

Model: B-550-PC-400PT

March, 2012 - Rev 1
 By: A.S.

Scale:
 * All Dimensions subject to allowable specification tolerances.

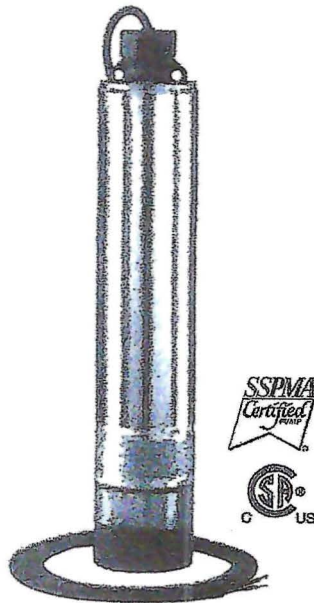
Dwg. #: ADV-B550-3



Advantage Wastewater Solutions Inc.
 444 A Old Hwy No 9
 Comfort, TX 78013
 830-995-3189
 fax 830-995-4051

STA-RITE® ST.E.P Plus D Series

4" multi-stage submersible effluent pumps



The ST.E.P Plus D Series 4" submersible pump in 10, 20 and 30 GPM models dominate with superior "draw-down" capability.

The ST.E.P Plus D Series 4" submersible pump dominates with reduced amp draw.

The ST.E.P Plus D Series 4" submersible pump dominates with cooler and quieter operation.

APPLICATIONS

Clean and Gray Water... for residential, commercial, and agricultural use.

SPECIFICATIONS

Motor – Available in 115 or 230 volt versions. Dry-wound, double ball-bearing, double-seal and thermal overload protected, UL and CSA approved.

Shell – Stainless steel (300 grade)

Discharge – 1-1/4" Fiberglass-reinforced thermoplastic

Discharge Bearing – Nylatron®

Impellers – Acetel

Diffusers – Polycarbonate

Suction Caps – Polycarbonate with stainless steel wear ring

Thrust Pads – Proprietary spec.

Shaft and Coupling – Stainless steel 300 grade

Intake – Fiberglass-reinforced thermoplastic

Intake Screen – Stainless steel

Jacketed Cord – 600 Volt "SJOW" jacketed 10' leads, 2-wire with ground

Agency Listing – CSA

FEATURES

ST.E.P. Plus DOMINATES with a...

Proven Stage System – The proven SignaSeal staging system utilizes a patented ceramic wear surface. When incorporated with STA-RITE's "true" independent floating impellers, dominates with 1st-in-class performance, superior sand handling, and a thrust management staging system with industry exclusive "dry-run" capabilities.

Superior "draw-down" capability – The ST.E.P. Plus Dominates in this class with the lowest draw-down of 4-1/2" (a standard 4" NEMA submersible only draws-down to 13-1/2").

Reduced amp draw – The ST.E.P. Plus Dominates in this class with less energy consumption – over 25% less amp draw (9.5 amps vs. 12.7 amps, 115 volt) than a 4" NEMA submersible, reducing operating costs and extending the service life of float switch contacts.

Cooler and quieter operation – The ST.E.P. Plus Dominates by using the pumped liquid to cool the motor as it passes over the motor. The water passing over the motor dampens the motor noise, eliminating expensive "flow-inducer sleeves" required when using a standard 4" NEMA submersible.

Impellers – Precision molded for perfect balance... ultra smooth for the highest performance and efficiency. Allows for .080" solids.

Shaft – Positive drive, hexagonal 7/16" – 300-grade stainless steel shaft offers generous impeller drive surfaces.

Shaft bearing – Exclusive self-lubricating Nylatron® bearing resists wear surface from sand and abrasives.

Shell – Corrosion resistant 300-grade stainless steel.

ORDERING INFORMATION

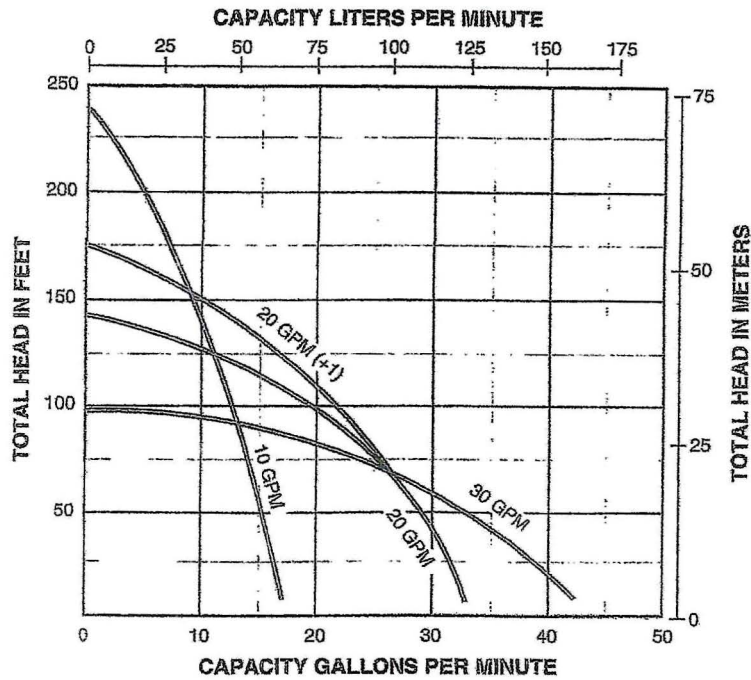
CATALOG NUMBER	HP	MAX. LOAD AMPS	VOLTS	PHASE/ CYCLES	CORD LENGTH	PALLET QUANTITY	WEIGHT (LBS.)
10DOM05221	1/2	5.5	230	1/60	10'	80	16
10DOM05121	1/2	11.0	115	1/60	10'	80	16
20DOM05221	1/2	4.6	230	1/60	10'	80	16
20DOM05121	1/2	9.5	115	1/60	10'	80	16
30DOM05221	1/2	4.6	230	1/60	10'	80	16
30DOM05121	1/2	9.5	115	1/60	10'	80	16
20DOM05221+1	1/2	5.3	230	1/60	10'	80	16
20DOM05121+1	1/2	10.6	115	1/60	10'	80	16

In order to provide the best products possible, specifications are subject to change.

STA-RITE® ST.E.P Plus D Series

4" multi-stage submersible effluent pumps

PUMP PERFORMANCE



PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE)													
PUMP MODEL	FLOW RATE (GPM)	PSI											
		0	10	20	30	40	50	60	70	80	90	100	110
10DOM05221	10			15.0	13.7	12.7	11.5	10.2	8.4	6.5	4.3	1.0	
10DOM05121	10			15.0	13.7	12.7	11.5	10.2	8.4	6.5	4.3	1.0	
20DOM05221	20			30.0	26.0	21.5	14.2	4.4					
20DOM05121	20			30.0	26.0	21.5	14.2	4.4					
30DOM05221	30		38.5	33.3	25.8	16							
30DOM05121	30		38.5	33.3	25.8	16							
20DOM05221+1	20 + 1			30	27.5	24	20	13.5	6				
20DOM05121+1	20 + 1			30	27.5	24	20	13.5	6				

PUMP PERFORMANCE (CAPACITY IN LITERS PER MINUTE)													
PUMP MODEL	FLOW RATE (LPM)	BAR											
		.69	1.38	2.07	2.76	3.45	4.13	4.82	5.51	6.20	6.89	7.58	110
10DOM05221	37.85			56.8	51.9	48.1	43.5	38.6	31.8	24.6	16.3	3.8	
10DOM05121	37.85			56.8	51.9	48.1	43.5	38.6	31.8	24.6	16.3	3.8	
20DOM05221	75.7			113.6	98.4	81.4	53.7	16.7					
20DOM05121	75.7			113.6	98.4	81.4	53.7	16.7					
30DOM05221	113.55		145.7	126.0	97.7	60.6							
30DOM05121	113.55		145.7	126.0	97.7	60.6							
20DOM05221+1	75.7 + 1			113.4	103.9	90.7	75.6	51.0	22.6				
20DOM05121+1	75.7 + 1			113.4	103.9	90.7	75.6	51.0	22.6				



MANUAL DISC FILTERS

APPLICATIONS

- Residential
- Commercial
- Municipal
- Institutional

SPECIFICATIONS

- Maximum pressure:
 - 3/4" - 1", 1 1/2": 140 psi
 - 2" Dual Lite: 115 psi
 - 2" Dual HP: 174 psi
- Flow range:
 - 3/4" - 1 to 17 GPM
 - 1" - 5 to 26 GPM
 - 1 1/2" - 10 to 35 GPM
 - 1 1/2" Long - 10 to 52 GPM
 - 2" Dual Lite - 40 to 110 GPM
 - 2" Dual HP - 40 to 120 GPM

MATERIALS

- Filter body and cover: reinforced polyamide
- Disc rings: polypropylene
- O-Rings: EPDM rubber
- Clamps: stainless steel

FEATURES & BENEFITS

DISC FILTER DESIGN

Collects debris along the depth of the discs, not just at the surface like screen filters. Disc helps filtration with calcium build up.

100% THERMOPLASTIC DISCS

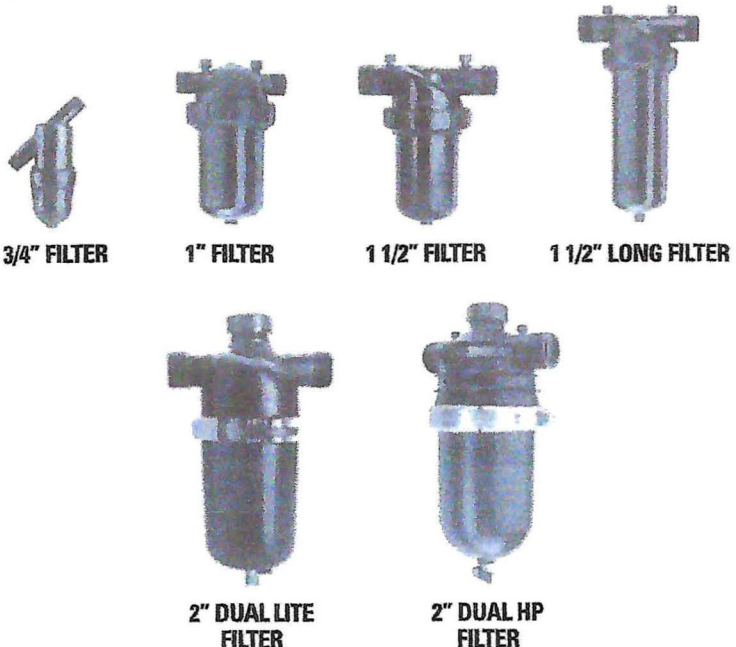
Corrosion resistant. Disc screens prevents element collapsing.

REPLACEMENT FILTER RINGS AVAILABLE

Color-coded for easy mesh identification.

EXTRA LARGE FILTRATION CAPACITY

Requires less cleaning.

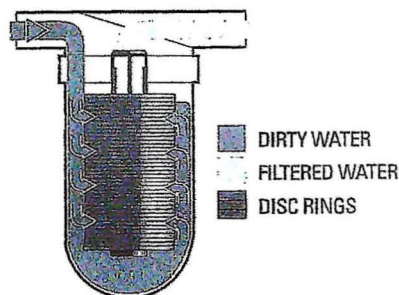


DISC FILTER TECHNOLOGY

Grooves in the disc rings criss-cross to form a network that traps debris between and on the outside of the discs.

HOW IT WORKS

As dirty water is pumped into the filter, and pressure increases, the water compresses the disc rings together tightly. The water is then forced to flow through the grooves of the disc rings, where debris is trapped, releasing only clean water to the irrigation system.

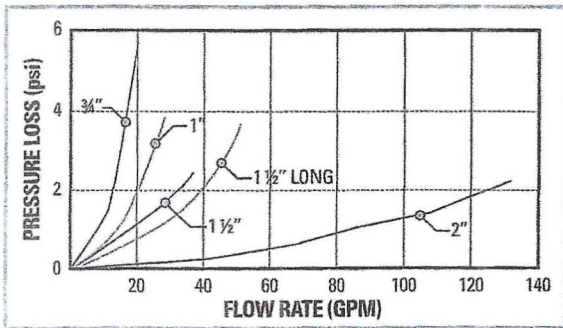


DISC FILTER RINGS



- YELLOW**
80 MESH
200 MICRON
- RED**
120 MESH
130 MICRON
- BLACK**
140 MESH
115 MICRON
- GREEN**
200 MESH
55 MICRON
(2" ONLY)

FLOW RATE VS. PRESSURE LOSS



FLOW RATE VS. PRESSURE LOSS

FLOW RATE (GPM)	PRESSURE LOSS (psi)					
	3/4"	1"	1 1/2"	1 1/2" LONG	2" DUAL LITE	2" DUAL HP
5	0.50	0.25				
10	2.00	0.50				
13	3.40	1.00				
17	5.87	2.10				
22		3.24	1.10			
26			1.50	1.50		
31			1.70	2.00		
35			2.30	2.50		
44				4.20	0.30	0.30
66					0.60	0.60
88					1.03	1.03
110					1.47	1.47

Losses shown are for filters with 140 mesh.

LEGEND

- River, ditch, lake or reservoir water
- Well water containing sand only
- Municipal supply

DIMENSIONS & WEIGHT

SIZE	LENGTH	WIDTH	WEIGHT (LBS)
3/4"	5 22/32"	7 15/32"	.66
1"	9 11/32"	6 7/32"	2.2
1 1/2"	10 5/8"	7 7/8"	2.4
1 1/2" LONG	14 1/2"	7 7/8"	3.3
2" DUAL LITE	16 5/16"	10 1/4"	6.6
2" DUAL HP	14 3/4"	10 1/4"	11

ORDERING INFORMATION

FILTER SIZE	MESH	DISC FILTER MODEL NUMBER	REPLACEMENT FILTER RINGS MODEL NUMBER
3/4"	40	DF075-040	DFR075040
	80	DF075-080	DFR075080
	120	DF075-120	DFR075120
	140	DF075-140	DFR075140
1"	40	DF100-040	DFR150040*
	80	DF100-080	DFR150080*
	120	DF100-120	DFR150120*
	140	DF100-140	DFR150140*
1 1/2"	40	DF150-040	DFR150040*
	80	DF150-080	DFR150080*
	120	DF150-120	DFR150120*
	140	DF150-140	DFR150140*
1 1/2" LONG	40	DF150S-040	DFR150L040*
	80	DF150S-080	DFR150L080*
	120	DF150S-120	DFR150L120*
	140	DF150S-140	DFR150L140*
2" DUAL LITE	40	DF2DL-040	DFR200040
	80	DF2DL-080	DFR200080
	120	DF2DL-120	DFR200120
	140	DF2DL-140	DFR200140
2" DUAL HP	200	DF2DL-200	DFR200200
	40	DF200-040	DFR200040
	80	DF200-080	DFR200080
	120	DF200-120	DFR200120
2" DUAL HP	140	DF200-140	DFR200140
	200	DF200-200	DFR200200

* Ring set and filter spine.
140 Mesh: Standard for LVCZ Kit.



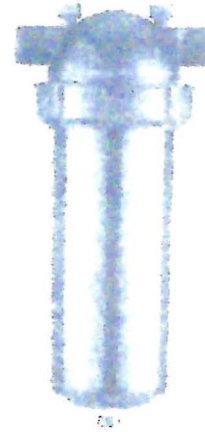
NETAFIM USA
(888) 638 2346
www.netafimusa.com

Arkal 1" Super Filter

Catalog No. 1102 0 _ _ _

Features

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



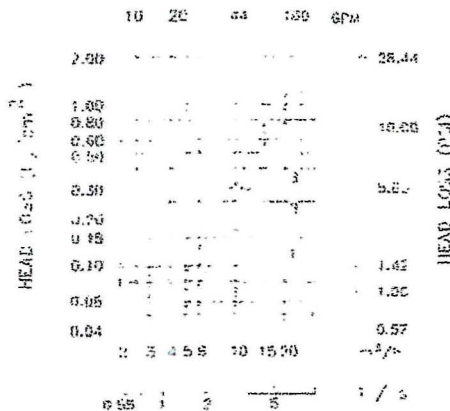
Technical Data

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

Filtration Grades

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

Head Loss Chart





PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Specifications

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

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

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

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

Inlet	Outlet
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

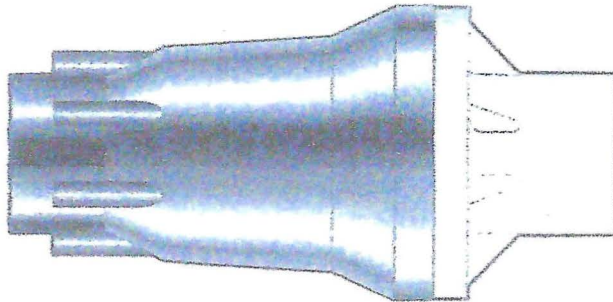
3/4" FNPT x 3/4" FNPT model (shown on right)

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

1" FNPT x 1" FNPT model

1" FBSPT x 1" FBSPT model

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



* Please consult factory for applications outside of recommended guidelines.



PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Model Numbers

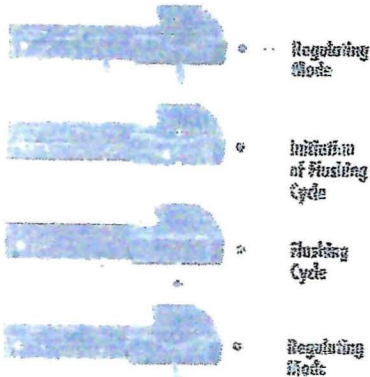
Model #	Flow Range	Preset Operating Pressure	Maximum Inlet Pressure
PMR-6 MF	4 - 16 GPM (909 - 3634 L/hr)	6 PSI (0.41 bar)	80 psi (5.51 bar)
PMR-10 MF	4 - 16 GPM (909 - 3634 L/hr)	10 PSI (0.69 bar)	90 psi (6.20 bar)
PMR-12 MF	2 - 20 GPM (454 - 4542 L/hr)	12 PSI (0.83 bar)	90 psi (6.20 bar)
PMR-15 MF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



Bioline Dripperline



Pressure Compensating Dripperline for Wastewater



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

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

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 microns

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.

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 Vinylene to prevent buildup of mineral slimes.
 - Unique self-cleaning mechanism passes sand particles before they can build up.

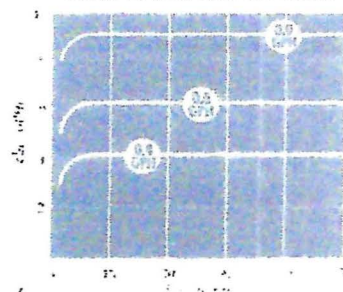
Cross Section of Bioline Dripperline



Root Safe

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

BIOLINE Flow Rate vs. Pressure



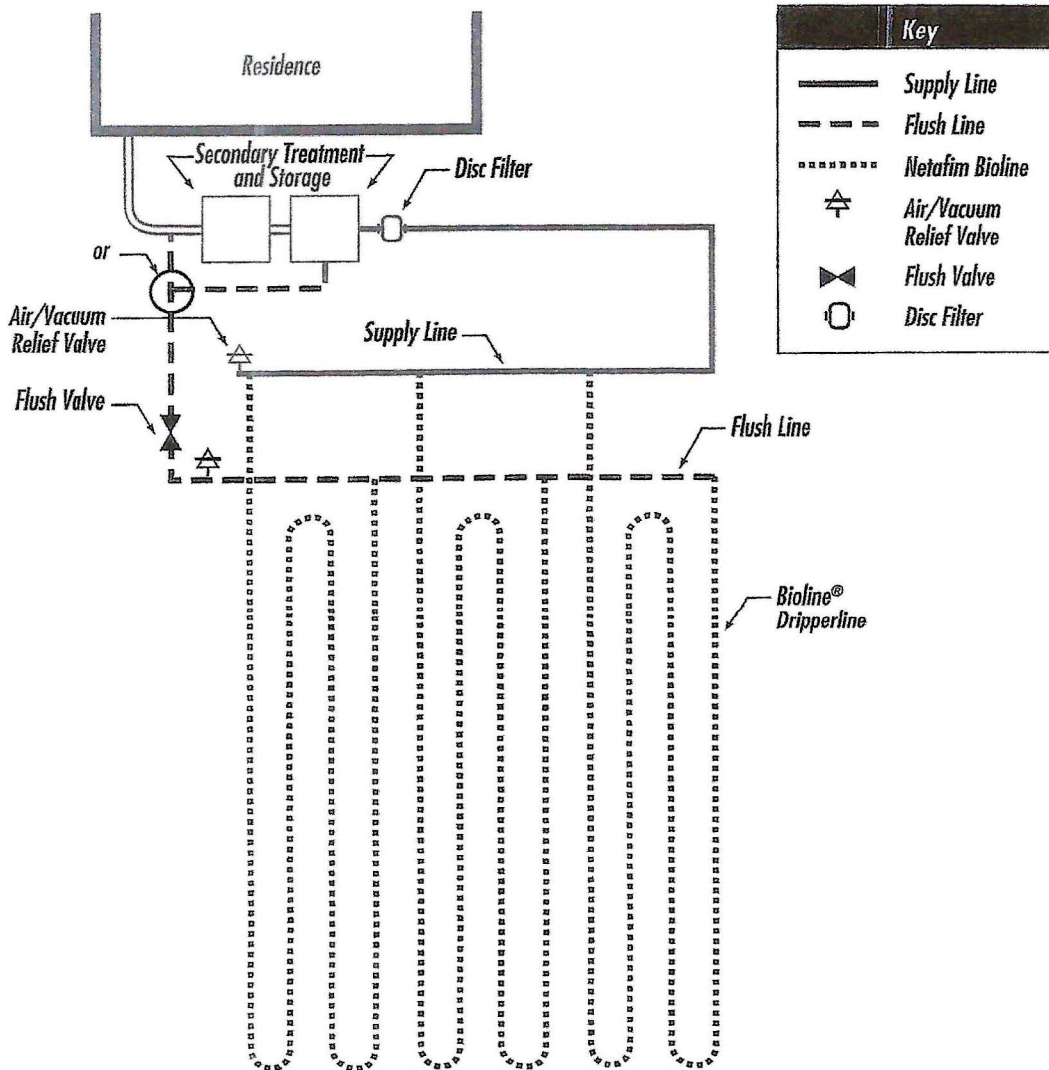
NETAFIM USA
 5470 E. Hamann Ave. • Fresno, CA 93727
 888.638.2346 • 509.453.6200
 FAX: 800.845.3753
www.netafimusa.com

WASTEWATER REUSE AND DRIP DISPERSAL GUIDE

SINGLE TRENCH LAYOUT

Rectangular field with supply and flush manifolds on the same side and in the same trench:

- Locate the supply and flush manifolds in the same trench
- Dripperlines are looped at the halfway point of their run and returned to flush manifold
- Bioline® laterals should never exceed recommended lengths

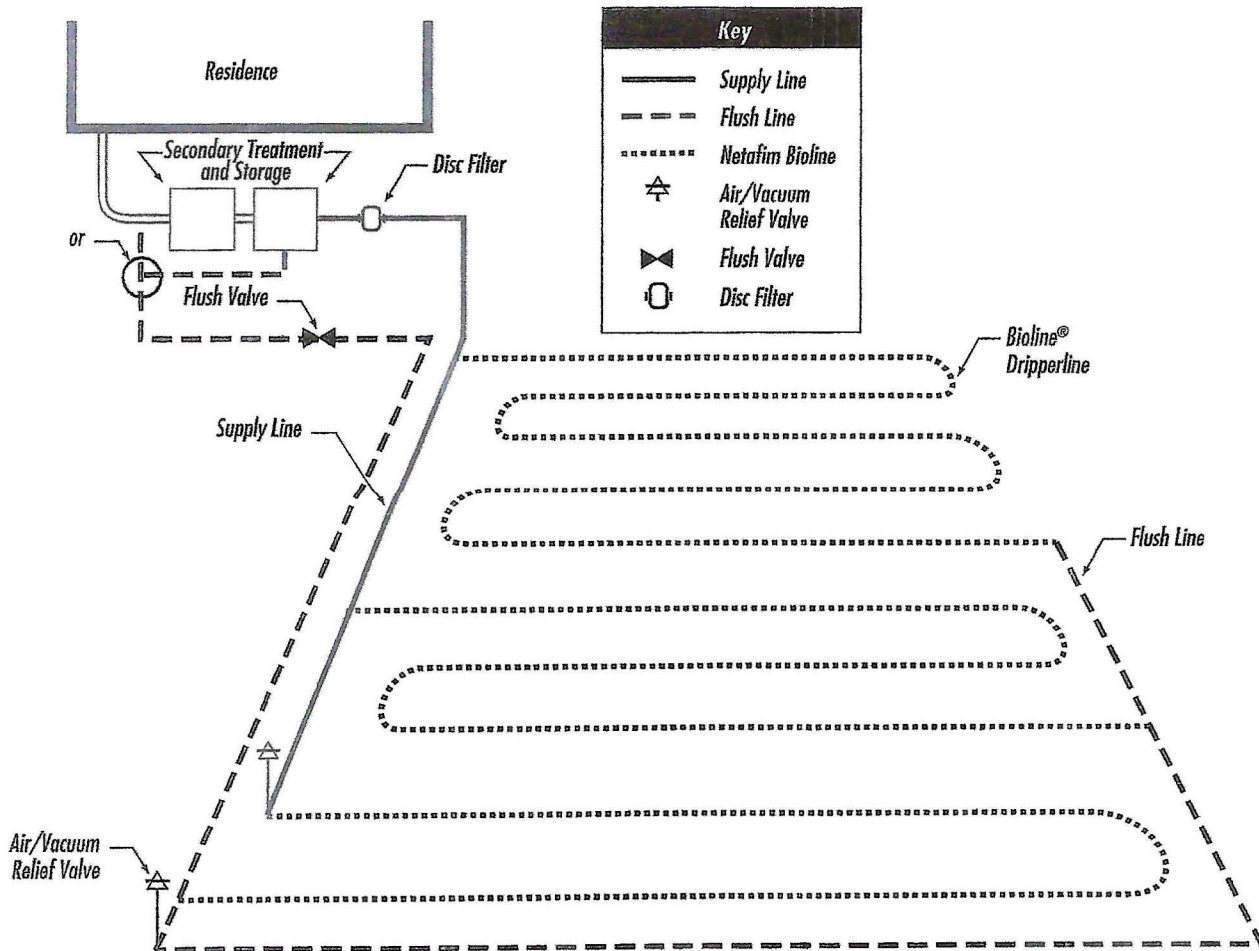


WASTEWATER REUSE AND DRIP DISPERSAL GUIDE

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



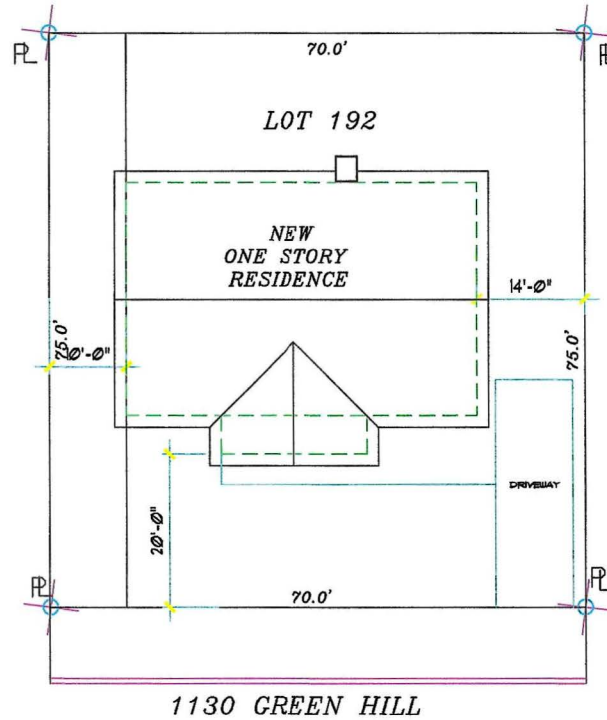
GENERAL SITE NOTES

1. PRIOR TO BEGINNING ANY WORK, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL FIELD CONDITIONS, EXISTING AND NEW AFFECTING SITE WORK TO BE DONE, INCLUDING, BUT NOT LIMITED TO EXACT LOCATION OF ALL CONSTRUCTION, ALL SETBACKS, EASEMENTS, RESTRICTIONS OR REQUIREMENTS, LOCATION, SIZE AND DEPTH OF ALL UTILITIES, EXISTING TREES, EXISTING AND FINISHING GRADES, FINISH FLOOR ELEVATIONS AND SLAB DROPS, WALKS, DRIVES, EDGING, TRIM, CURBS, ALL FENCES AND WALLS AND ANY MISCELLANEOUS CONDITIONS RELEVANT TO THE WORK TO BE DONE. OWNER WILL BE NOTIFIED IMMEDIATELY REGARDING CHANGES OR DISCREPANCIES FOR SPECIFIC INSTRUCTIONS TO CONTRACTOR.
2. GRADE CONTOURS OF ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE DATA, ARE POTENTIALLY SCHEMATIC ONLY, AND MUST BE VERIFIED AND CHECKED OUT TOTALLY ON THE JOB (NECESSARY ADJUSTMENTS SHALL BE MADE PRIOR TO SETTING FORMS). THIS IS CRITICAL AND GENERAL CONTRACTOR SHALL BE RESPONSIBLE AND COMPLETE JOB BASED UPON THESE CONDITIONS.
3. CONTRACTOR SHALL DO A PRELIMINARY LAYOUT OF BUILDING PLACEMENT PRIOR TO STAKING, AND TRENCHING OF FORMWORK FOR THE FOUNDATION. CONTRACTOR SHALL COORDINATE AND VERIFY EXACT HOUSE LOCATION WITH OWNER.
4. CONTRACTOR SHALL COORDINATE ALL EXTERIOR LIGHTING, CIRCUITS, SWITCHES, AND CONDUITS AS REQUIRED TO SERVICE ALL EXTERIOR LIGHTS (CONFIRM WATTAGE AND NUMBER OF CIRCUITS REQUIRED AND LOCATION OF SWITCHES).
5. CONTRACTOR MUST PROVIDE POSITIVE DRAINAGE AWAY FROM CONSTRUCTION AT ALL TIMES.
6. SIZES AND WIDTHS OF DRIVEWAY AND SPECIFIC MATERIALS MUST BE REVIEWED WITH OWNER DURING BID STAGE.
7. VERIFY AVAILABLE UTILITY CONNECTIONS AND BID UNDERGROUND ELECTRICAL SERVICE. VERIFY WATER, SEWER, GAS, AND ELECTRICAL SERVICE DETAILS WITH OWNER (INCLUDING WATER METER SIZE).
8. TAG ALL TREES TO REMAIN (WITH OWNER'S APPROVAL) AND PROTECT DURING CONSTRUCTION.
9. CONTRACTOR SHALL VERIFY ALL CONDITIONS DEALING WITH IRRIGATION SYSTEM. PROVIDE PVC SLEEVES UNDER DRIVES UNLESS INSTALLED BEFORE DRIVES POURED. COORDINATE WITH OWNER.
10. CONTRACTOR SHALL PERFORM WORK FROM EXISTING CARPORT SLAB AS LONG AS POSSIBLE TO PROTECT EXISTING TREE.

LEGAL DESCRIPTION

NCB -
BLK -
LOT 192

PLAT: VOL - PG -



SITE PLAN
SCALE: 1/16" = 1'-0"

JUN. 11, 2024



RL
design
planning

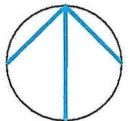
12725
APPLEWHITE RD

San Antonio,
Texas 78224
210-389-9323

REVISIONS

NEW
RESIDENCE
FOR:
YOUR
SWEET
HOMES
LLC.

1130 GREEN HILL
CANYON LAKE
TEXAS 78133



SHEET

S-1

OF 6

SITE PLAN



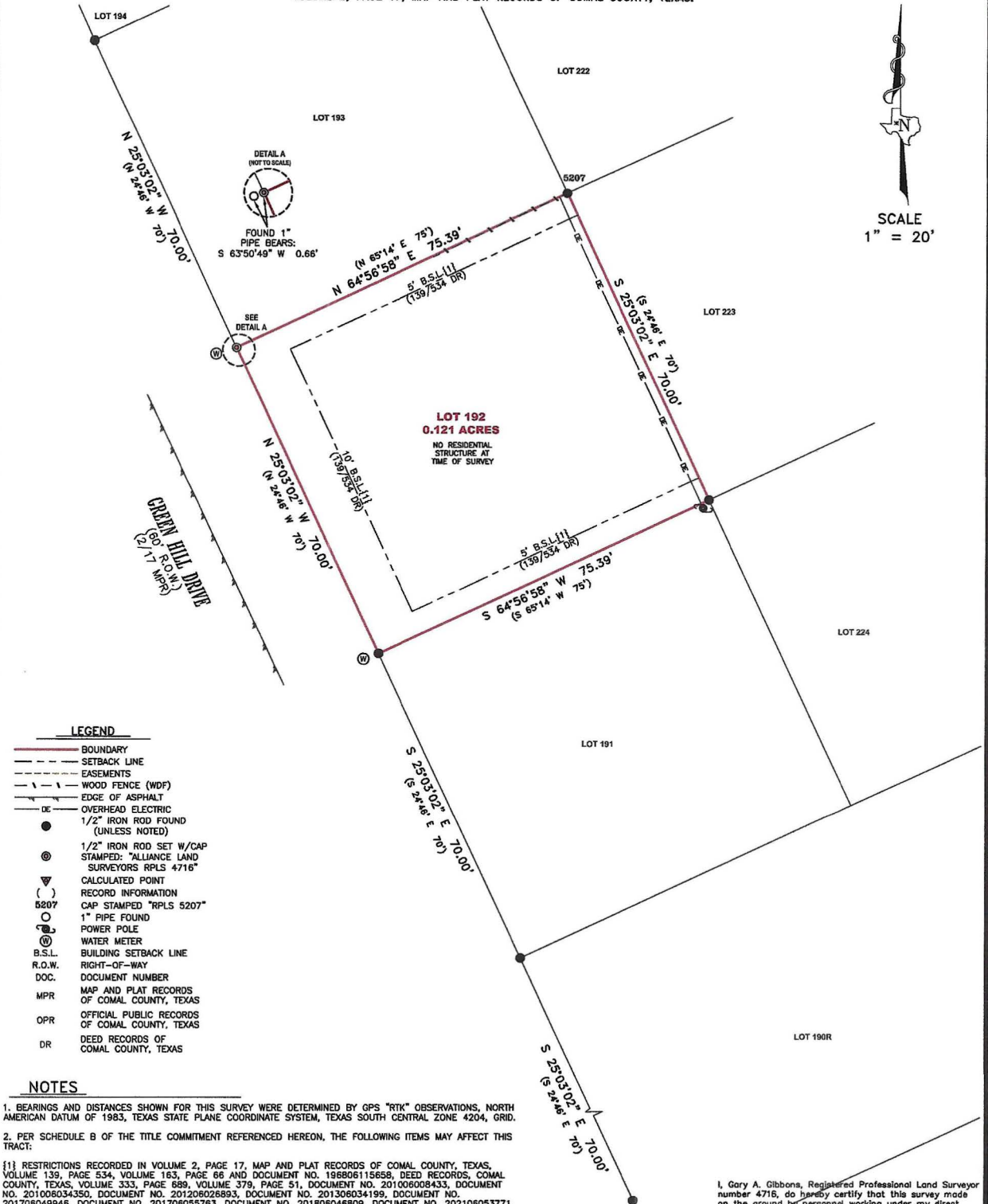
TBPELS FIRM No. 10194244
18410 US Hwy 281 N, Suite 109
San Antonio, TX 78259
(210) 369-9509

BUYER/OWNER: YOUR SWEET HOMES LLC
ADDRESS: 1130 GREENHILL DRIVE
CITY, STATE, ZIP: CANYON LAKE, TEXAS 78133
TITLE COMPANY: CROWNRISE TITLE
GF NUMBER: 24-0206
EFFECTIVE DATE: MAY 14, 2024
ISSUE DATE: MAY 22, 2024



LAND TITLE SURVEY

LOT 192, CANYON LAKE HILLS, UNIT NO. 1, A SUBDIVISION IN COMAL COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN VOLUME 2, PAGE 17, MAP AND PLAT RECORDS OF COMAL COUNTY, TEXAS.



LEGEND

- BOUNDARY
- - - SETBACK LINE
- - - EASEMENTS
- - - WOOD FENCE (WDF)
- - - EDGE OF ASPHALT
- OVERHEAD ELECTRIC
- 1/2" IRON ROD FOUND (UNLESS NOTED)
- ⊙ 1/2" IRON ROD SET W/CAP STAMPED: "ALLIANCE LAND SURVEYORS RPLS 4716"
- ▽ CALCULATED POINT
- () RECORD INFORMATION
- 5207 CAP STAMPED "RPLS 5207"
- 1" PIPE FOUND
- ⊕ POWER POLE
- ⊙ WATER METER
- B.S.L. BUILDING SETBACK LINE
- R.O.W. RIGHT-OF-WAY
- DOC. DOCUMENT NUMBER
- MPR MAP AND PLAT RECORDS OF COMAL COUNTY, TEXAS
- OPR OFFICIAL PUBLIC RECORDS OF COMAL COUNTY, TEXAS
- DR DEED RECORDS OF COMAL COUNTY, TEXAS

NOTES

- BEARINGS AND DISTANCES SHOWN FOR THIS SURVEY WERE DETERMINED BY GPS "RTK" OBSERVATIONS, NORTH AMERICAN DATUM OF 1983, TEXAS STATE PLANE COORDINATE SYSTEM, TEXAS SOUTH CENTRAL ZONE 4204, GRID.
 - PER SCHEDULE B OF THE TITLE COMMITMENT REFERENCED HEREON, THE FOLLOWING ITEMS MAY AFFECT THIS TRACT:
 - {1} RESTRICTIONS RECORDED IN VOLUME 2, PAGE 17, MAP AND PLAT RECORDS OF COMAL COUNTY, TEXAS, VOLUME 139, PAGE 534, VOLUME 183, PAGE 66 AND DOCUMENT NO. 196806115658, DEED RECORDS, COMAL COUNTY, TEXAS, VOLUME 333, PAGE 689, VOLUME 379, PAGE 51, DOCUMENT NO. 201006008433, DOCUMENT NO. 201006034350, DOCUMENT NO. 201208026893, DOCUMENT NO. 201306034199, DOCUMENT NO. 201708049945, DOCUMENT NO. 201706055763, DOCUMENT NO. 201808046809, DOCUMENT NO. 202108053771, DOCUMENT NO. 202308018933, DOCUMENT NO. 202306024704, DOCUMENT NO. 202306035728, OFFICIAL PUBLIC RECORDS, COMAL COUNTY, TEXAS.
 - {10a} EASEMENT TO PEDERNALES ELECTRIC COOPERATIVE, INC. RECORDED IN VOLUME 140, PAGE 383, DEED RECORDS OF COMAL COUNTY TEXAS. (BLANKET IN NATURE)
 - {10h} UTILITY EASEMENT, 5 FEET WIDE, ALONG ALL LOT LINE. RECORDED IN VOLUME 139, PAGE 534, DEED RECORDS, COMAL COUNTY, TEXAS. (WIDTH NOT SHOWN IN DOCUMENT)
 - {10i} EASEMENT RECORDED IN VOLUME 120, PAGE 230, DEED RECORDS, COMAL COUNTY, TEXAS. (BLANKET IN NATURE)
- ACCORDING TO FEMA MAP NO. 45010005F WITH AN EFFECTIVE DATE OF 09/02/2009, THIS PROPERTY LIES WITHIN ZONE X AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA. THIS INFORMATION IS SUBJECT TO CHANGE AS A RESULT OF FUTURE MAP REVISIONS BY FEMA.

I, Gary A. Gibbons, Registered Professional Land Surveyor number 4716, do hereby certify that this survey made on the ground by personnel working under my direct supervision and that this professional service conforms to the minimum standards of survey practices as set out by the Texas Board of Professional Engineers and Land Surveyors as of this date.

Survey field work completed on:
THE 27TH DAY OF MAY 2024, A.D.

Gary A. Gibbons

GARY A. GIBBONS
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 4716



JOB NO. 240517067	FIELD WORK: D.V.	BOUNDARY: JTD	DRAWN: E.A.	REVIEW: G.G.	REVISION DATE: -/-/-
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NOTES

1. ***This system is designed for a maximum of 240 gall of wastewater flow per day on a 3 bedroom, <2500sqft home. Exceeding this volume may result in system failure.***
2. ***System designed as a mounded aerobic drip system. Replacement soil shall be type 2 (sandy Loam) and the drainfield shall be sized on the absorption rate for type 3 soil.***
3. Install a NUWATER B550. Audible and visual high-water alarms, external disconnect within site of the pump tank, pump and alarms on separate breakers and external wiring in conduit required. TANK SHALL BE BURRIED A MINIMUM OF 12"-18".
4. Install a 2-way cleanout in a 3" or 4" tightline from the house to the ATU, minimum slope 1/8 in/ft. Minimum 5' from home tank edge.
5. The native soil shall be scarified and built up inside field area and 1'-2' beyond the edges with a minimum of 10" of type 2 soil.
6. Then drip tubing will be laid and a minimum of 6" of type 2 sandy loam soil shall be placed over the dripfield area and a minimum of 1'-2' beyond the edges. ***NOT SAND.*** Total of 16" minimum of soil brought to site (MINIMUM OF 12" OF SOIL REQUIRED BETWEEN DRIP TUBING AND BEDROCK).
7. Install 693' of 0.62 gpm on top of prepared soil, 2' apart to single row. No single row to exceed 300' in length. All loops in a line shall be double PVC.
8. Design is for 3 runs. 1" x 2" x 3" = 235'
9. **TIGHTLINE FROM HOUSE TO ATU. SEE DESIGN.**
10. **SLEEVE WATER LINE FROM MANIFOLD TO HOME. SLEEVE SHALL BE A MINIMUM 2" SCH 40 PVC. DRIP FIELD SHALL BE AT A MINIMUM 10' FROM WATERLINE MANIFOLD AT R.**
11. Supply (S) and flush (F) lines shall be 1/2" sch 40 PVC. 1/2" micron diaphragm filter shall be installed in the supply line inside the pump tank. A 1" ball valve shall be installed in the supply line and shall be located in the pump tank or in a valve box. This valve shall be used to flush the lines periodically. Flush the lines (OTHER THAN WHEN FLUSING SYSTEM) SHALL BE PERIODICALLY. FLUSHING SHALL BE REQUIRED AND THE FLUSH LINE SHALL BE IN THE Pretreatment (Filter) of the solids filter. Filter are flushed each cycle back to the trash tank.
12. A vacuum relief valve (R) shall be installed on both the supply and flush lines at their **highest** points. The valves shall be located in valve boxes filled with pea gravel.
13. Install a pressure gauge and hose bib in the pump tank on the manifold to maintain pressure of 40 PSI.
14. Cover the dripfield with a minimum of 6" type 2 soil, NOT SAND. Drainfield shall be sodded with grass/seeded over/over.
15. The pump shall operate on a timer set to run for 9 minute duration every 3 hours.
16. ***The reserve capacity (1/3) of the daily flow for this system is 80 gallons***
17. No part of the septic system absorption field is within 150' of any sensitive recharge feature. No part of the On Site Sewage Facility treatment tank is within 50' of any sensitive recharge feature.
18. ***Potable water line must maintain a 10' separation distance from OSSF (field and tank). Waterline to be sleeved in sch 40 where it is located <10' from any OSSF element or spray area in order to provide the equivalent protection of a 10' separation in compliance with TAC Chapter 290, Subchapter D, Rules for Public Drinking Water Systems.***
19. ***Entirety of septic system is to stay within the setbacks and boundary lines of property.***
20. ***Design and details written and drawn herein were prepared with the best available information provided to the Registered Sanitarian by the landowner and by ground truth/evaluation.***
21. ***A variance is requested to place an exterior steps over the top off the drip field. See variance request for property installation and inspection of stairs/steps.***

VOID

Your Sweet Homes LLC 1130 GREEN HILL DR. Canyon Lake TX 78133	
Nicholas Kolbe, R.S. #5115 1825 FM 2438 Seguin TX 78155	Date: 8/22/2024 <hr/> Scale: 1" = 20'

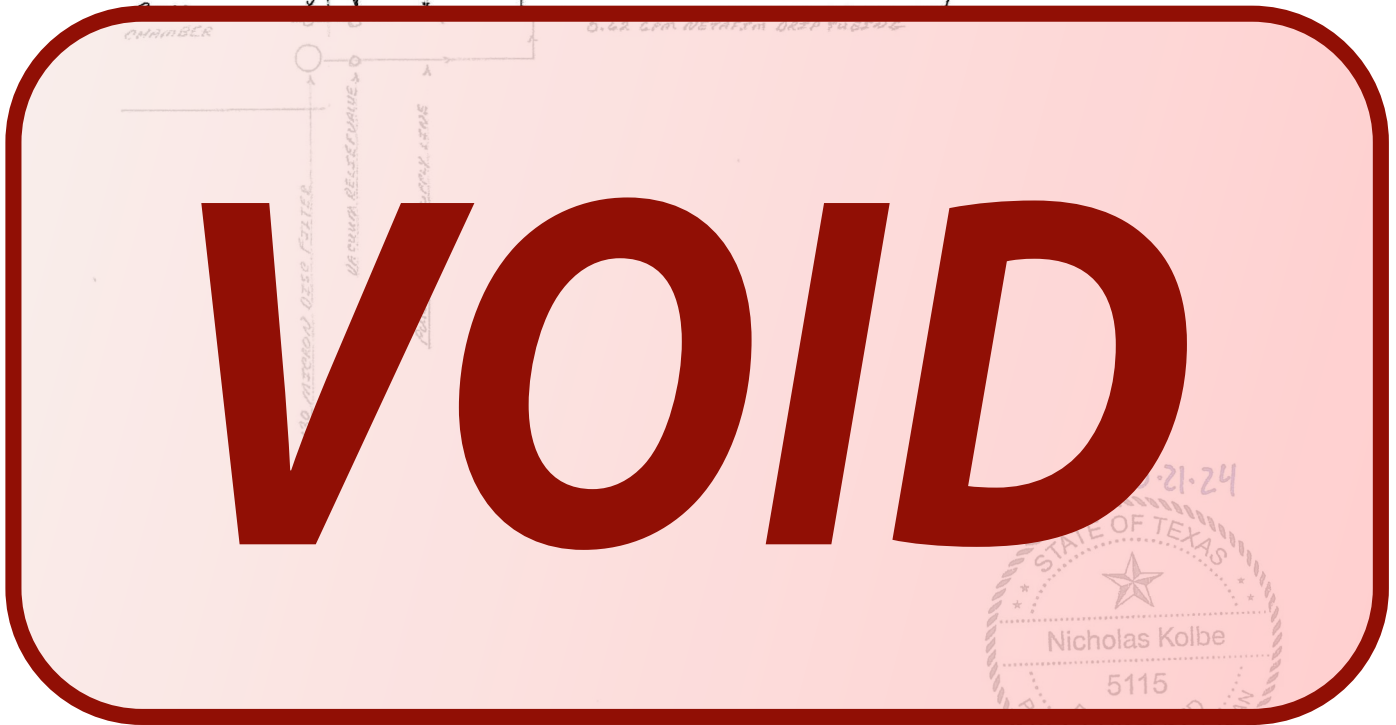
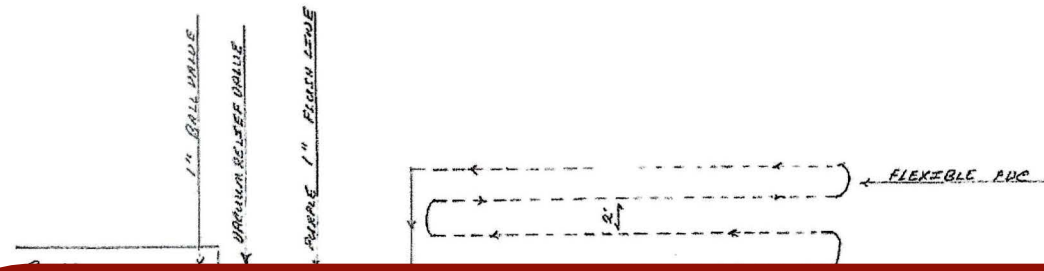
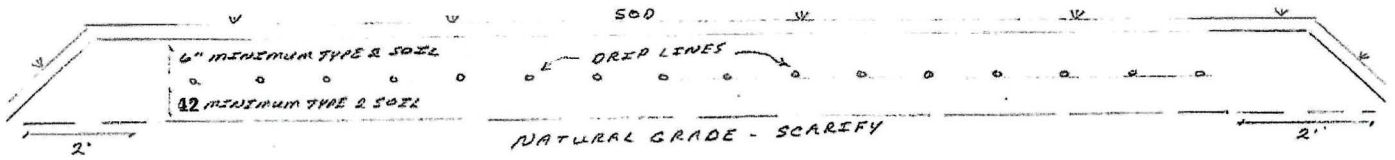
Lot: LOT 192, CANYON LAKE HILLS UNIT NO. 1 IN COMAL COUNTY TX.

Property is Not located within 100YR Flood Plain. 10-21-24
 Property is Located in the Edwards Aquifer
 Contribution zone, not the recharge zone.

SITE PLAN & OSSF DESIGN



Septic Distribution Field Cross Section



21-24
 STATE OF TEXAS
 Nicholas Kolbe
 5115
 PROFESSIONAL SANITARY ENGINEER

Nicholas Kolbe

Your Sweet Homes LLC 1130 GREEN HILL DR. Canyon Lake TX 78133	
Nicholas Kolbe, R.S. #5115 1825 FM 2438 Seguin TX 78155	Date: 8/22/2023 Scale: 1" = 20'

Lot: LOT 192 CANYON LAKE HILLS UNIT NO. 1 IN COMAL COUNTY TX.

Property is Not located within 100YR Flood Plain.
 Property is Located in the Edwards Aquifer Contribution zone, not the recharge zone.

SITE PLAN & OSSF DESIGN:

ALWAYS ON THE LEVEL EXCAVATING LLC

Mike Dunn, Owner/Operator

PO Box 993, Boerne, Texas 78006

Email: mikedunn.alwaysonthellevelseptic@gmail.com

OSSF# OS0008099 MP #0682

Physical address only, mail is not received at the following address: 27 Ernst Rd., Boerne, TX 78006

System Service Policy

This agreement entitles: Jason Dean County: Comal
(Contract name and address) 1130 Greenhill Dr Permit: _____
Canyon Lake TX 78133 Installation Date: _____
Date License to Operate Issued: _____

to the following service for 24 months from the date of issuance of License to Operate or upon expiration of existing contract. *The effective date of this initial maintenance contract shall be the date the License to Operate is issued.*

VOID

MIKE DUNN DBA ALWAYS ON THE LEVEL EXCAVATING LLC is to perform the following services under the terms of this agreement. The homeowner is responsible to see that the contractor is satisfied with the work. This contract does not include the cost of electrical, plumbing, labor or materials not warranted, such as AC, Sewer Air, etc.

- *Inspection, adjustment, and repair of the system.
 - *Inspection and adjustment of the settings and overflows.
 - *Inspection of pump, chlorinator, filter heads, spray area, and port condition.
 - *If special arrangements are requested (i.e. call ahead, appt., etc.) there will be an additional charge.
 - *Additional Service as ordered including replacement of components, laboratory test work, and pumping of unit or trash-tank will be done upon authority from customer at an additional charge.
- Important: This service agreement does not cover the cost of service calls, labor or materials which are required due to misuse or abuse of the system; failure to maintain electrical power to the system; disposal of non-biodegradable materials, chemicals, solvents, grease, oil, paint, etc.; or any uses contrary to the Violations of Warranty including shutting off the electrical current to the system for more than 24 hours, disconnecting the alarm system, restricting ventilation.

EMERGENCY SERVICE

- *Two emergency service calls per year at no charge (service call only - does not include parts or labor)
- *Any warranted parts or labor will be covered according to the manufacturer's warranty program. Freight charges to and from the manufacturer will be billed to the homeowner.

We will respond to Homeowner's concerns within 3 working days.

This contract will expire two years from the initial installation date.

This contract is not transferable. Homeowner's signature below gives Always On The Level Excavating and/or its representative permission to enter property and perform duties as outlined above.

54-332-306-7155
Home Telephone

Work Telephone

Cell Phone
Dirgo.Naveja98@Gmail.com
Email

Dirgo Naveja
Owner's Signature Date 10-21-24
(Please sign, date, and return one copy)

Michael C Dunn 10-22-24
Accepted for Always On The Level Excavating Date

Gate Code: _____ Retired & 62+ _____



COMAL COUNTY

ENGINEER'S OFFICE

RE: *1130 Green Hill Dr.*
Canyon Lake Hills 1
Lot 192

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:

- ✓ Maintenance Contract needs to identify the frequency of routine maintenance and the frequency of the required testing and reporting. TAC285.7(d)(1)(D)
 - ✓ Planning Materials:
 - a. Note 2: How much soil is going to be replaced?
 - i. Submit a cross section.
 - ✓ Site Plan:
 - a. It appears you want to vary from 285.91(10) Table X proximity of drip field to waterline. Please write up the purposed sleeve as a variance request.
4. Revise accordingly and resubmit.

If you have any questions, you can email me or call the office.

Thank You,

| **Brandon Olvera** | **Designated Representative OS0034792** |

| Comal County | www.cceo.org | f: 830-608-2078 | e: olverb@co.comal.tx.us |

~~WARRANTY DEED~~ #10
24-0206
Warranty Deed

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.

Date: June 7, 2024

Grantor: **Donna K. Myers, a married woman, owning, occupying, and claiming other property as homestead**

Grantor's Mailing Address: 2246 Gruene Rd New Braunfels TX 78130

Grantee: **Your Sweet Home, LLC**

Grantee's Mailing Address: 1130 Blue ridge Dr Canyon Lake, TX 78133

Consideration: **Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged.**

Property (including any improvements): **Lot 192, Canyon Lake Hills, Unit No. 1, a subdivision in Comal County, Texas, according to the map or plat thereof recorded in Volume 2, Page 17, Map and Plat Records of Comal County, Texas.**


Reservations from and Exceptions to Conveyance and Warranty: **This conveyance, however, is made and accepted subject to the following matters, to the extent same are in effect at this time: any and all restrictions, covenants, assessments, reservations, outstanding mineral interests held by third parties, conditions, and easements, if any, relating to the hereinabove described property, but only to the extent they are still in effect and shown of record in the hereinabove mentioned County and State or to the extent that they are apparent upon reasonable inspection of the property; and to all zoning laws, regulations and ordinances of municipal and/or other governmental authorities, if any, but only to the extent they are still in effect and relating to the hereinabove described property.**

The Contract between Grantor as the Seller and Grantee as the Buyer, if any, may contain limitations as to warranty or other agreed matters; to the extent that the Contract provides for any such limitations or other agreed matters to survive closing and this conveyance, then such limitations or other agreed matters are hereby deemed incorporated by reference. The warranty of title contained in this Deed is hereby expressly excluded from the limitations or other agreed matters referenced in this paragraph.

Grantor, for the Consideration and subject to the Reservations from Conveyance and the 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 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, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

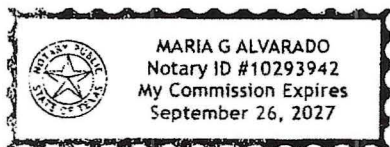
When the context requires, singular nouns and pronouns include the plural.



Donna K. Myers

STATE OF TEXAS

COUNTY OF Bexar

This instrument was acknowledged before me on this 7th day of June 2024, by Donna K. Myers.




Notary Public, State of Texas

AFTER RECORDING RETURN TO:
Your Sweet Home, LLC
9901 W. Interstate 10 Ste 777
San Antonio, TX 78230

Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
06/10/2024 03:07:59 PM
TRACY 2 Pages(s)
202406017396

 Bobbie Koepf