Installer Name:	OSSF Installer #:	OSSF Installer #:			
1st Inspection Date:	2nd Inspection Date:	3rd Inspection Date:			
Inspector Name:	Inspector Name:	Inspector Name:			

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

Inspector Notes:

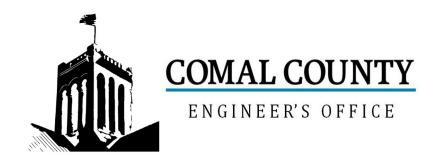
	T					1	ı
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If SingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and " T " Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum Requirements		285.32(b)(1) (E)285.91(2)285.32(b)(1) (F)285.32(b)(1)(E) (iii)285.32(b)(1)(E)(ii) (II)285.32(b)(1)(E) (i)285.32(b)(1)(E) (i)285.32(b)(1) (D)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1) (B)285.32(b)(1) (A)285.32(b)(1) (B)285.32(b)(1)				
1	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used		285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
	SEPTIC TANK Secondary restraint system providedSEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
	SEPTIC TANK Tank Volume Installed						
	PUMP TANK Volume Installed						
	AEROBIC TREATMENT UNIT Size Installed						
	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapotranspirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

^{4/9/25} CA: Revision for septic line sleeving in lieu of waterline sleeving. Remove rocks from spray radius in front. Rear spray radius on left side has shed in spray radius. Will need re inspection fee

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

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No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field (1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes (3/16 - 1/4" dia. Hole Size) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3) (B)285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
	AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)				
	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump PUMP TANK Inspection/Clean Out						
37	Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions						
38	PUMP TANK Secondary restraint system provided PUMP TANK Electrical						
	Connections in Approved Junction Boxes / Wiring Buried						

	· · · · · · · · · · · · · · · · · · ·							
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.	
	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II) 285.33(d)(2)(G)(iii)(III) 285.33(d)(2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iii)(I)					
	APPLICATION AREA Low Angle Nozzles Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed		285.33(d)(2)(G) (i)285.33(d)(2) (A)285.33(d)(2)(F)					
	APPLICATION AREA Area Installed							
	PUMP TANK Meets Minimum Reserve Capacity Requirements							
	PUMP TANK Material Type & Manufacturer							
	PUMP TANK Type/Size of Pump Installed							



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

Permit Number: 116942

Issued This Date: 12/28/2023

This permit is hereby given to: Ricardo Sanchez and Carmen Sims

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

520 CARIBOU DR

SPRING BRANCH, TX 78070

Subdivision: Deer River Phase 2

Unit: 0

Lot: 124

Block: 0

Acreage: 0.0000

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

Surface 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.





OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

			116942
	Date Received	Initials	Permit Number
Instructions: Place a check mark next to all items that apply. For items Checklist <u>must</u> accompany the completed application.	s that do not apply, place	"N/A". This	OSSF Development Application
OSSF Permit			
Completed Application for Permit for Authorization to	o Construct an On-Site S	ewage Facil	ity and License to Operate
Site/Soil Evaluation Completed by a Certified Site E	valuator or a Professiona	l Engineer	
Planning Materials of the OSSF as Required by the of a scaled design and all system specifications.	TCEQ Rules for OSSF C	hapter 285.	Planning Materials shall consis
Required Permit Fee - See Attached Fee Schedule			
Copy of Recorded Deed			
Surface Application/Aerobic Treatment System			
Recorded Certification of OSSF Requiring Mai	ntenance/Affidavit to the	Public	
Signed Maintenance Contract with Effective Da	ate as Issuance of Licens	se to Operat	е
l affirm that I have provided all information required fo constitutes a completed OSSF Development Applicati		nt Applicati	on and that this application
Signature of Applicant		3.23	ate
COMPLETE APPLICATION Check No Receipt No.			TE APPLICATION led, Application Refeused)

Revised: September 2019





ON-SITE SEWAGE FACILITY APPLICATION

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

Revised January 2021

Date		Permit Number	116942
1. APPLICANT / AGENT INFORMATION			
Owner Name Ricardo Sanches and Carmen Sims	Agent Name	_DAVID WINTER	S SEPTICS
Mailing Address 520 Caribou Dr.	-	BACK PORC HOME AND AND AND AND AND AND	S SLI IICS
City, State, Zip Spring Branch, TX 78070		SPRING BRANC	
Phone #	Phone #	830-935-2477	11, 12 / 30 / 0
Email	Email	WINTERSSEPTION	CS@GVTC.COM
2. LOCATION			
Subdivision Name Deer River, Phase 2	U	nit Lot Lo	t 124 Block
Survey Name / Abstract Number			
Address 520 Caribou Dr.			
3. TYPE OF DEVELOPMENT	· - · - · - · - · - · - · · - ·		
⊠ Single Family Residential			
Type of Construction (House, Mobile, RV, Etc.) MOBILE			
Number of Bedrooms 4			
Indicate Sq Ft of Living Area 2128 Sq. Ft.			
☐ Non-Single Family Residential			
(Planning materials must show adequate land area for doubling	the required land need	ed for treatment units ar	nd disposal area)
Type of Facility			
Offices, Factories, Churches, Schools, Parks, Etc Indic	ate Number Of Occu	pants	
Restaurants, Lounges, Theaters - Indicate Number of Se			
Hotel, Motel, Hospital, Nursing Home - Indicate Number			
Travel Trailer/RV Parks - Indicate Number of Spaces			
Miscellaneous			
Estimated Cost of Construction: \$ 150,000	(Structure Only)		
Is any portion of the proposed OSSF located in the United Sta	ates Army Corps of E	ngineers (USACE) flo	wage easement?
Yes No (If yes, owner must provide approval from USACE for	or proposed OSSF improv	ements within the USACE	flowage easement)
Source of Water Public Private Well Rainwa	ter		
4. SIGNATURE OF OWNER			
By signing this application, I certify that: The completed application and all additional information submitted do facts. I certify that I am the property owner or I possess the appropria property.	es not contain any false te land rights necessary	e information and does n to make the permitted	ot conceal any material improvements on said
Authorization is hereby given to the permitting authority and designate	ed agents to enter upon	the above described pro	operty 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 issu	ed until the Floodplain A	Administrator has perfor	med the reviews required
by the Comal County Flood Damage Prevention Order. I affirmatively consent to the online posting/public release of my e-mai			·•
72-131 Mahan Mil Avens		3.23	., se applicable.
Signature of Owner	Date	dil	Page 1 of 2



Signature of Designer

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
System Description
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) Absorption/Application Area (Sq Ft)
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?
(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?
If yes, indicate the city:
By signing this application, I certify that:
- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.
Stace Union

Date



202306036326 11/16/2023 10:50:01 AM 1/1

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.

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.

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):

Ricardo Eseguiel Sanchez and Carmen Elena Sims

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

Lot 124, DEER RIVER PHASE 2, a subdivision in Comal County, Texas

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 16 DAY OF Novomber

AMUS CAMER SANCH Z

Owner(s) signature(s)

ON THIS 16 DAY OF NOVOMBER

(PRINTED NAME)

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 16 DAY OF November

Notary Public, State of Texas Notary's Printed Name: Notary's Printed Name: Notary's Printed Name: Notary's Printed Name: Notary Name of Name

ROXIANNE M. MAURELLI My Notary ID # 124231893 Expires August 6, 2026

> Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 11/16/2023 10:50:01 AM CHRISTY 1 Page(s) 202306036326

> > obbie Koepe

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, be	by, and between
RICARDO SANCHEZ AND CARMEN SIMS (referred to as "Client") and David w	Date beginning on Issue Date of
(hereafter referred to as "Contractor") located at 520 CARIBOU DR. 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.

purpose of service described above. PAYMENT AGREEMENT The client will pay compensation to the contractor for the se be payable in one lump sum payment upon acceptance of the	First 2 years included with new rivices in the amount of install. This compensation shall is 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 accordance with its terms by other party without fault of the will immediately notify the appropriate health authority.	written notice in the event of substantial failure to perform in terminating party. If this agreement is terminated, the contractor			
LIMIT OF LIABILTY The Contractor will not be liable for indirect, consequential, theory. In no event shall the Contractor's liability for direct agreement.	incidental or punitive damages, whether in contract or any other damages exceed the price for the services described in this			
Permit #				
The effective date of this initial maintenance agreement shall be the date the license to operate is issued.				
Client	Contractor			
Client RICARDO SANCHEZ AND CARMEN SIMS Name	Contractor David Winters Septic's, LLC, Inc.			
RICARDO SANCHEZ AND CARMEN SIMS				
RICARDO SANCHEZ AND CARMEN SIMS Name	David Winters Septic's, LLC, Inc.			
RICARDO SANCHEZ AND CARMEN SIMS Name 520 CARIBOU DR. Address SPRING BRANCH, TX 78070	David Winters Septic's, LLC, Inc.			
RICARDO SANCHEZ AND CARMEN SIMS Name 520 CARIBOU DR. Address	David Winters Septic's, LLC, Inc. P.O. Box 195 Spring Branch, Texas 780170			
RICARDO SANCHEZ AND CARMEN SIMS Name 520 CARIBOU DR. Address SPRING BRANCH, TX 78070	David Winters Septic's, LLC, Inc. P.O. Box 195			
RICARDO SANCHEZ AND CARMEN SIMS Name 520 CARIBOU DR. Address SPRING BRANCH, TX 78070 City/State/Zip Code	David Winters Septic's, LLC, Inc. P.O. Box 195 Spring Branch, Texas 780170 Office 830-935-2477 Fax 830-935-2477			
RICARDO SANCHEZ AND CARMEN SIMS Name 520 CARIBOU DR. Address SPRING BRANCH, TX 78070 City/State/Zip Code Phone	David Winters Septic's, LLC, Inc. P.O. Box 195 Spring Branch, Texas 780170			
RICARDO SANCHEZ AND CARMEN SIMS Name 520 CARIBOU DR. Address SPRING BRANCH, TX 78070 City/State/Zip Code Phone babygirlelena11222007@yahoo.com	David Winters Septic's, LLC, Inc. P.O. Box 195 Spring Branch, Texas 780170 Office 830-935-2477 Fax 830-935-2477			

OSSF Soil & Site Evaluation

Page 1 (Soil	& Site Eval	luation)	Oate Performed	d: <u>11 / 9 / 2023</u>	
Property Ow	ner: <u>Ramos Co</u>	onstruction		_	
At least borings or dug pleast two feet be	MENTS: st two soil excava pits must be show elow the propose	ations must be performed on the site drawing. For still disposal field excavation dedentify any restrictive feature	the site, at opposite ends ubsurface disposal, soil e epth. For surface disposa	of the proposed di evaluations must be al, the surface horiz	e performed to a depth of at zon must be evaluated.
Soil Boring Number:					
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT. 2 FT.	III	<30%	Well Drained	Bedrock 2"-3"	Clay Loam
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.		SAME	AS	ABOVE	
2 FT.					
3 FT.					
4 FT. 5 FT.					
311.					
Presence of a Presence of a Existing or p Ground Slope	roposed water e	zone	thin 150 feet)	<u>1-2</u>	
	- time	2,5	11/9/2023	OS #	# 0037882
(Signature of Form # PA5/03		orming evaluation)	(Date)		Number and Type

OSSF Soil & Site Evaluation

Page 1 (Soil	& Site Eval	luation)	Date Performed:11 / _9 / _2023					
Property Ow	ner: <u>Ramos Co</u>	onstruction		_				
At least borings or dug pleast two feet be	MENTS: st two soil excava pits must be show elow the propose	ations must be performed on the site drawing. For still disposal field excavation dedentify any restrictive feature	the site, at opposite ends ubsurface disposal, soil e epth. For surface disposa	of the proposed di evaluations must be al, the surface horiz	e performed to a depth of at zon must be evaluated.			
Soil Boring Number:								
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations			
1 FT. 2 FT.	III	<30%	Well Drained	Bedrock 2"-3"	Clay Loam			
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.		SAME	AS	ABOVE				
2 FT.								
3 FT.								
4 FT. 5 FT.								
311.								
Presence of a Presence of a Existing or p Ground Slope	roposed water e	zone	thin 150 feet)	<u>1-2</u>				
	- time	2,5	11/9/2023	OS #	# 0037882			
(Signature of Form # PA5/03		orming evaluation)	(Date)	Registration Number and Type				



GW Designs Garrett R. Winters 1332 Mountain View DR, Canyon Lake TX

December 19th, 2023

Comal County Engineer's Office 195 David Jonas Drive New Braunfels, TX 78132

RE- **Septic design** 520 Caribou Dr. Spring Branch, TX 78070

Brandon/Brenda

The unique circumstances of this property make it difficult to comply with the 20ft spray setback requirement. I hereby request a variance for the placement of the spray disposal area 10 feet from the property lines, as well as a battery backup timer to be installed to ensure sprayers only spray during the predawn hours. Installing this timer will provide equivalent protection with TCEQ CHAPTER 285 rules Table X. 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



GW Septic Designs



On-Site Sewage Facility Application and Design

Prepared By: Garrett R. Winters Registered Professional Sanitarian R.S# <u>5213</u>



Contact Information

Phone: (210) 854-2673

Email: Gwintersseptics@gmail.com

1332 Mountain View Dr. Canyon Lake, TX 78133



RECEIVED

By Brandon Olvera at 2:25 pm, Apr 10, 2025

Owner/Site Location

Owner/Builder: Ramos Construction

Address: 520 Caribou Dr. Spring Branch, TX 78070

Subdivision: Deer River Phase 2

Lot: 124

LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with spray 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.

System Summary

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

- 600gpd Aerobic treatment unit (Aguaklear AKA600CA)
- Manual 24HR control timer
- 20gpm submersible effluent pump
- SCH40 PVC Sewer pipe
- 1" purple PVC SCH40 supply line
- Liquid Chlorinator
- K-Rain Gear Driven Pop-up Sprinklers not to exceed 40PSI.
- Sprinklers: SEE SITE PLAN
- Visual and audio alarms monitoring high water and aerator failure placed in a noticeable location.

Wastewater Design Flow

Structure: 2,001sf Bedrooms: 4

Wastewater Usage Rate: 300gpd

Application Rate: 0.064

Application Area Required: 4,688sf. Actual Application Area: 4,926sf

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: 100gal

Landscaping

The native vegetation in the distribution area should consist of low-level shrubs, plains grass, bluestem, or Bermuda. The entire application area must maintain a ground cover after construction. Exposed rock will be covered when in the application area with fine soil such as sandy loam.

If the slope in the drain field area is greater than 15% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. Surface application systems may apply treated and disinfected effluent upon areas with existing vegetation. If any ground within the proposed surface application area does not have vegetation, that bare area shall be seeded or covered with sod before system startup. The vegetation shall be capable of growth before the system start-up.

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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.

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" 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.

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.

Maintenance Requirements

The homeowner is primarily responsible for maintaining a properly functioning aerobic treatment system. The installer is responsible for furnishing the homeowner with the installation manual and instructing the homeowner on proper use for this type of OSSF. The following provisions are required by the homeowner:

- A maintenance contract must be maintained for the first 2 years by a licensed maintenance contractor.
- A constant supply of chlorine must be provided to the OSSF system. (Avg. 1gal/month)
- The owner must prohibit the discharge of grease into the OSSF system.
- Keep the spray area mowed and tank area free of ants and weeds.
- Maintain all faucets and toilets inside the home free of leaks.
- Maintaining OSSF Chambers by pumping each of them out every 3-5 years to avoid sludge buildup.

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.

RECEIVED

By Brandon Olvera at 2:26 pm, Apr 10, 2025

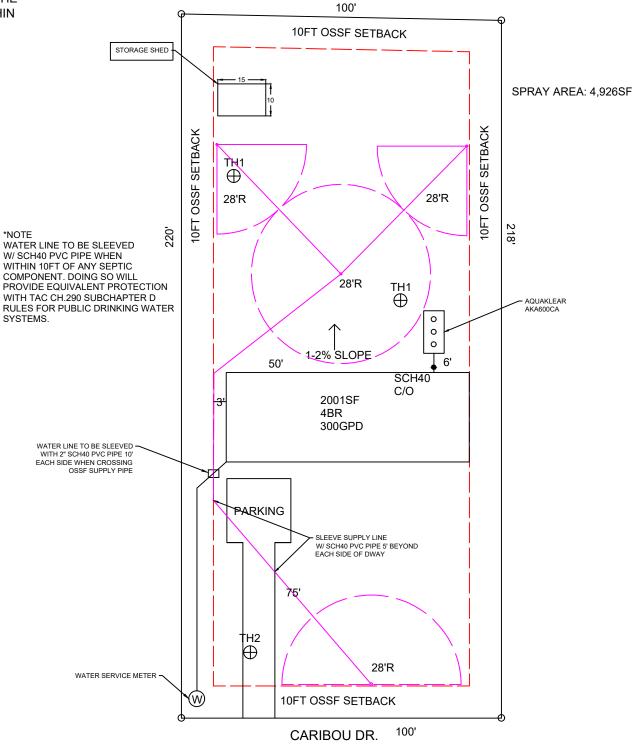
Affidavit

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.



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.



RECEIVED

By Brandon Olvera at 2:28 pm, Apr 10, 2025

DATE DESCRIPTION

Revised 04/03/2025 5:56:31 PM

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

 \overline{Z}

OWNER: RAMOS CONSTRUCTION

ADDRESS: 520 Caribou Dr. Spring Branch, TX 78070

Subdivision: DEER RIVER PHASE 2

LOT: 124



SCALE:1"- 30'

DATE: 4/3/2025

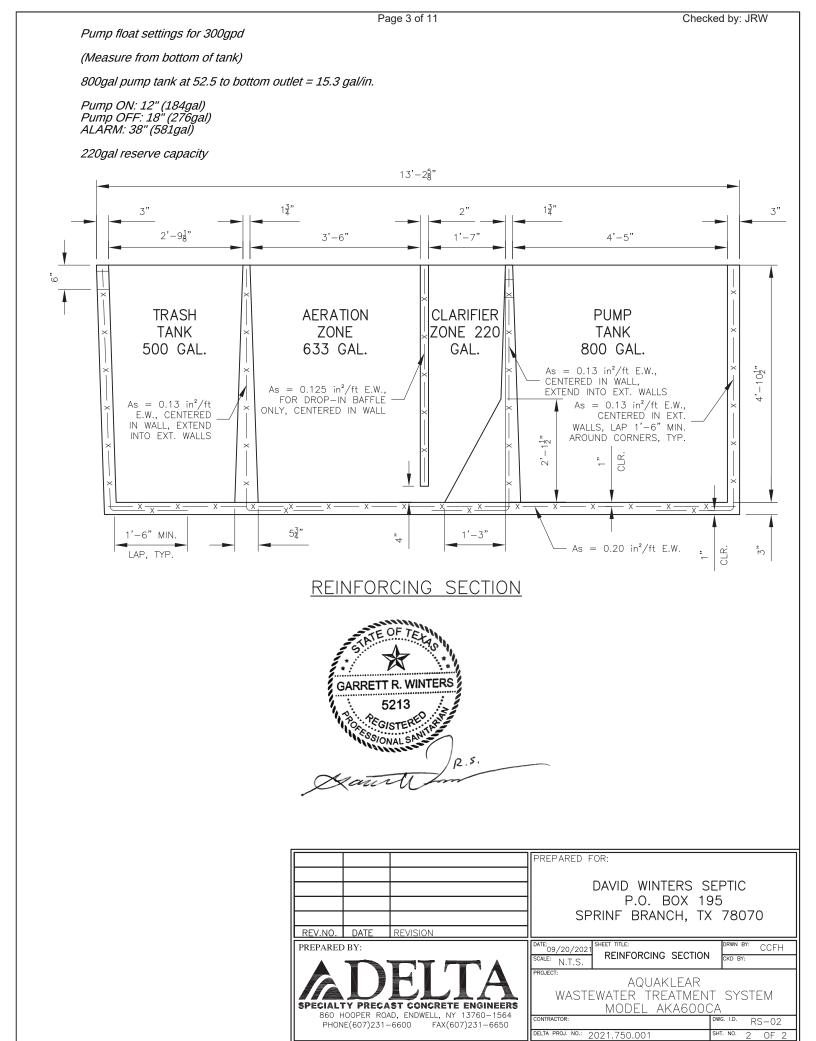
OSSF INFORMATION

- STRUCTURE: 2000SF SINGLE FAMILY RESIDENCE
- BEDROOMS: 4
- DAILY WASTEFLOW: 300GPD
- TANK MANUFACTURER: AQUAKLEAR AKA600CA
- MINIMUM SPRINKLER COVERAGE: 4.688SF
- ACTUAL COVERAGE AREA: 4,926SF

NOTES

- TANK IS TO PLACED AT LEAST 5' FROM STRUCTURES
- ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10' FROM ANY PART OF THE OSSF
- SEWER LINE WILL BE SCH 80 PVC OR SLEEVED WITH SCH 40 PIPE WHERE IT IS WITHIN 5' OF OR CROSSES UNDER DRIVEWAYS, STRUCTURES, AND SURFACE IMPROVEMENTS TO PROVIDE EQUIVALENT PROTECTION UNDER SETBACK REQUIREMENTS OF TAC 285.
- A MINIMUM OF 1/4" PER FOOT OF FALL IS REQUIRED FROM STRUCTURE TO ATU
- SPRINKLER HEADS MAY NOT SPRAY WITHIN 10' OF TREES. UNDER NO CIRCUMSTANCE SHALL FOOD CROPS BE PLANTED IN THE SPRAY AREA
- SPRAY RADIUS SHALL MAINTAIN AT LEAST 100' FROM PRIVATE WELLS, 150' FROM PUBLIC WELLS. (TANKS 50' MIN)
- SYSTEM SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS TO INDICATE HIGH WATER AND AIR FAILURE
- THE AMOUNT OF WASTEWATER FLOW OF THE STRUCTURE(S) ON THIS DESIGN SHALL NOT SURPASS THE PERMITTED FLOW RATE
- ANY SURFACE ROCKS SHALL BE COVERED WITH SOIL THAT IS CAPABLE OF GROWTH
- NO SURFACE IMPROVEMENTS ARE TO BE WITHIN THE SPRAY AREA
- THIS DESIGN MEETS ALL
 REQUIREMENTS OF THE TEXAS
 COMMISSION ON ENVIRONMENTAL
 QUALITY OSSF REGULATIONS
- THIS SITE PLAN IS EXPRESSLY
 INTENDED FOR ON-SITE SEWAGE
 FACILITY (OSSF) USE ONLY AND SHOULD
 NOT BE UTILIZED OR CONSTRUED 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.

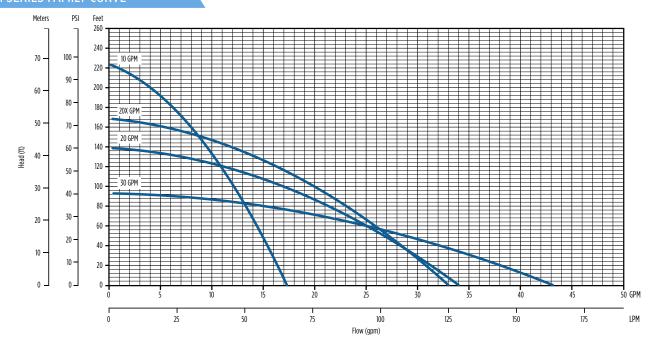








C1 SERIES FAMILY CURVE



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		115	6	10C1-05P4-2W115	90301005	26	17
10		230	6	10C1-05P4-2W230	90301010	26	17
20	1/2	115	4	20C1-05P4-2W115	90302005	25	16
20		230	4	20C1-05P4-2W230	90302010	25	16
20X	1/2	115	5	20XC1-05P4-2W115	90302015	26	17
20X		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



franklinwater.com M1698 08-21

ProPlus®

Tough, proven and advanced.

Features

- Patented Top Arc Set Allows for wet or dry adjustment in seconds
- Full arc range adjustment from 40° to continuous 360°
- Patented Arc Set Degree Markings Clearly indicates current watering pattern & simplifies arc set adjustment
- Arc Memory Clutch Prevents internal gear damage and returns rotor to its prior setting automatically if nozzle turret is forced past its stop
- Patented Reversing Mechanism Assures continuous reverse and return
- Ratcheting Riser Allows for easy adjustment of the fixed starting position with a simple turn of the riser
- Rubber Cover Seals out dirt, increases product durability
- Wide Selection of Nozzles Including standard and low angle, provides flexibility in system design
- Replaces all standard rotors
- Optional Check Valve Prevents low head drainage

Specifications

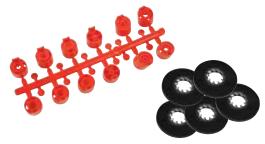
- Arc Adjustment Range: 40° to Continuous 360°
- Flow Range: .5 10.0 GPM (1,9 37,8 LPM)
- Pressure Rating: 20 70 PSI (1,4 4,8 bar)
- Precipitation Rate: .12 1.01 in/hr (3 25,7 mm/hr) (depending on spacing and nozzle used)
- Recommended Spacing: 28' 44' (8,5 13,4 m)
- Radius: 22' 50' (6,7 15,2 m)
- Nozzle Trajectory: 26°
- Low Angle Nozzle Trajectory: 12°
- Standard and Low Angle Nozzles Included

Model

11003 ProPlus®

Accessories

See page 24-25



Fast Facts

Inlet: 3/4" (1,9 cm) female thread NPT

Retracted height: 7 1/2" (19 cm)
Riser height: 4 1/4" (10,8 cm)



Easy Arc Setting

Arc Selection: 40° to continuous 360° Adjust from left start





Performance Data

Performance Data, Metric

		Torronnance Data, metre									
NOZZLE	PRESSURE	RADIUS	FLOW	PRECIF		NOZZLE	PRESSURE	RADIUS	FLOW		mm/hr
	PSI	Feet	GPM		A		Bar	Meters	L/M	•	
#0.5	30	28	0.5	.12	.14	#0.5	2,1	8,5	1,9	3	4
	40	29	0.6	.14	.16		2,8	8,8	2,3	4	4
	50	29	0.7	.16	.19		3,4	8,8	2,7	4	5
	60	30	0.8	.17	.20		4,1	9,1	3,0	5	5
#0.75	30	29	0.7	.16	.19	"0 JE				-	
#0.75	40	30	0.7	.10	.20	#0.75	2,1	8,8	2,7	4	5
	50	31	0.8	.17	.20		2,8	9,1	3,0	4	5
	60	32	1.0	.10	.21		3,4	9,4	3,4	5	5
			-				4,1	9,8	3,8	5	6
#1.0	30	32	1.3	.24	.28	#1.0	2,1	9,8	4,9	6	7
	40	33	1.5	.27	.31		2,8	10,1	5,7	7	8
	50	34	1.6	.27	.31		3,4	10,4	6,1	7	8
	60	35	1.8	.28	.33		4,1	10,7	6,8	7	8
#2.0	30	37	2.4	.34	.39	#2.0	2,1	11,3	9,1	9	10
	40	40	2.5	.30	.35		2,8	12,2	9,5	8	9
	50	42	3.0	.33	.38		3,4	12,8	11,4	8	10
	60	43	3.3	.34	.36		4,1	13,1	11,4	8	9
#2.5	30	38	2.5	.33	.38	#2.5	2,1	11,6	9,5	8	10
Pre-	40	39	2.8	.35	.41	Pre-	2,8	11,9	10,6	9	10
installed	50	40	3.2	.39	.44	installed	3,4	12,2	12,1	10	11
	60	41	3.5	.40	.46		4,1	12,5	13,3	10	12
#3.0	30	38	3.6	.48	.55	#3.0	2,1	11,6	13,6	12	14
#3.0	40	39	4.2	.53	.61	#3.0	2,1	11,0	15,6	13	15
	50	41	4.2	.53	.61		3,4	12,5	17,4	13	15
	60	42	5.0	.55	.63		4,1	12,3	17,4	14	16
		_					-				
#4.0	30	43	4.4	.46	.53	#4.0	2,1	13,1	16,7	12	13
	40	44	5.1	.51	.59		2,8	13,4	19,3	13	15
	50	46	5.6	.51	.59		3,4	14,0	21,2	13	15
	60	49	5.9	.47	.55		4,1	14,9	22,4	12	14
#6.0	40	45	5.9	.56	.65	#6.0	2,8	13,7	22,4	14	17
	50	46	6.0	.55	.63		3,4	14,0	22,7	14	16
	60	48	6.3	.53	.61		4,1	14,6	23,9	13	15
	70	49	6.7	.54	.62		4,8	14,9	25,4	14	16
#8.0	40	42	8.0	.87	1.01	#8.0	2,8	12,8	30,3	22	26
	50	45	8.5	.81	.93		3,4	13,7	32,2	21	24
	60	49	9.5	.76	.88		4,1	14,9	36,0	19	22
	70	50	10.0	.77	.89		4,8	15,2	37,9	20	23
	. •	- 0	. 0.0		.07		1,0	10,2	57,7	20	20

Low Angle Performance Data Low Angle Performance Data, Metric

zott / tilgle i ellerinance bata					Low rangic i cironnance Bata, metite						
NOZZLE	PRESSURE PSI	RADIUS Feet	FLOW GPM	PRECIP	in/hr	NOZZLE	PRESSURE Bar	RADIUS Meters	FLOW L/M	PRECIP	mm/hr
#1.0	30 40 50 60	22 24 26 28	1.2 1.7 1.8 2.0	.48 .57 .51 .49	.55 .66 .59 .57	#1.0	2,1 2,8 3,4 4,1	6,7 7,3 7,9 8,5	4,5 6,4 6,8 7,6	12 14 13 12	14 17 15 14
#3.0	30 40 50 60	29 32 35 37	3.0 3.1 3.5 3.8	.69 .58 .55 .53	.79 .67 .64 .62	#3.0	2,1 2,8 3,4 4,1	8,8 9,8 10,7 11,3	11,4 11,7 13,2 14,4	18 15 14 14	20 17 16 16
#4.0	30 40 50 60	31 34 37 38	3.4 3.9 4.4 4.7	.68 .65 .62 .63	.79 .75 .71 .72	#4.0	2,1 2,8 3,4 4,1	9,4 10,4 11,3 11,6	12,9 14,8 16,7 17,8	17 17 16 16	20 19 18 18
#6.0	40 50 60 70	38 40 42 44	6.5 7.3 8.0 8.3	.87 .88 .87 .86	1.00 1.01 1.01 0.99	#6.0	2,8 3,4 4,1 4,8	11,6 12,2 12,8 13,4	24,6 27,7 30,3 32,6	22 22 22 22	25 26 26 25

^{*}All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.

How to Specify with Options

MODEL	OPTION				
11003	-CV Check valve				
	-LA	-LA Low angle nozzle			
	-NN	No nozzle			
	-RCW	Reclaimed water use			

Example: 11003-RCW-CV

LBC Manufacturing "EZ-Tank"

GRAVITY FLOW Liquid Bleach Chlorinator

US Patent Pending

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LBC Manufacturing P.O. Box 454 Fayetteville, TEXAS 78940 (979) 826-0139 off.

www.liquidchlorinator.com

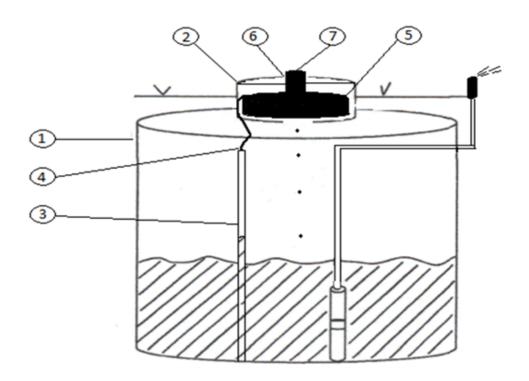


THIS PRODUCT WAS EVALUATED AS A CHLORINE DISINFECTION DEVICE AND MEETS OR EXCEEDS THE APPLICABLE REQUIREMENTS OF STANDARD 46

RECOMMENDED INSTALLATION INSTRUCTIONS

**** LBC Manufacturing recommends installation by TCEQ licensed and trained installers. ****

- 1. Locate the Aerobic System Holding/Pump tank
- 2. Remove the green access lid mounting screws and remove green access lid.
- 3. Install vertical sensing pipe into Holding/Pump tank. Ensure sensing pipe is resting on the bottom of the Holding/Pump tank. Cut the sensing pipe off below the top of the Holding/Pump tank lid, and secure the sensing pipe to remain vertical in the Holding/Pump tank
- 4. Using PVC Cleaner and PVC glue, attach the barb fitting adapter (supplied on the end of EZ-Tanks vinyl tubing) to the sensing pipe.
- 5. Place the EZ-Tank reservoir inside the holding tank access riser. (EZ-Tank reservoir rests on the secondary safety lid inside the holding tank access riser. If the holding tank access riser does not have a secondary safety lid, replace with new access riser that accommodates the secondary safety lid to code.)
- Next, drill 4.25 inch hole in center of holding tank access lid. (this allows the fill lid to be accessed without having to reopen the holding tank lid) Next, Re-Install holding tank access lid and replace mounting and safety screws.
- 7. Open EZ-Tank gasketed fill lid. Fill with 6% -10% sodium hypochlorite. Once filled, Replace the gasketed fill lid ensuring a firm secure seal. (If the fill lid is not tightened securely, a vacuum will not form and reservoir will empty sodium hypochlorite contents into Holding/Pump tank prematurely.)



CHLORINE DISINFECTION DEVICE PERFORMANCE

The LBC MFG "EZ-Tank" is a proven disinfection device that meets the applicable requirements of NSF standard 46 for Chlorine disinfection devices. The EZ-Tank is listed as a certified chlorine disinfection device for secondary treated effluent. Certification requires the device to be used with 6-10% sodium hypochlorite (household bleach) The EZ-Tank Disinfection device is a gravity flow product that applies disinfectant to a holding tank as the water level rises thus giving the ultimate amount of contact time for the disinfectant to work.

THE LIQUID CHLORINATION PROCESS

LBC Manufacturing designed and built the "EZ-Tank" to provide years of trouble-free service. It is constructed from durable Polyethylene material which can withstand the corrosive nature of Sodium Hypochlorite (Household Bleach). It has been tested to NSF/ANSI Std 46 and has proven to function more consistently, at a lower operating cost, than any other disinfection method.

The basic function of the Liquid Bleach Chlorinator is to introduce disinfectant to the effluent water in the Holding/Pump tank as the effluent enters. The longer the contact time the disinfectant has to interact with pathogens, the better it disinfects. The ideal method is maximum contact time for minimal pathogen survival.

LIQUID CHLORINATOR OPERATION AND MAINTENANCE

It is the Owner's Responsibility to operate and maintain the Liquid Chlorinator to the best of their ability.

If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Liquid Chlorinator.

The Liquid Chlorinator uses 6-10% Sodium Hypochlorite (Household Bleach). Do not use any other products and or chemicals other than specified. Always maintain a constant supply of disinfectant / Bleach in the Chlorinator Housing at all times. The rate of disinfectant/Bleach usage will vary with individual homeowner water usage. If disinfectant usage increases or decreases, call the service provider.

If flood waters, ants, chemicals etc.. other than Sodium Hypochlorite, enters the Chlorinator Housing, call for service.

****Always use Personal Protective Equipment when Filling or Servicing the Chlorinator*****

- MONTHLY: Open the Chlorinator Fill Lid and Visually Inspect the liquid level the chlorine reservoir.

 Maintain a constant supply of Sodium Hypochlorite (Household Bleach) in the Chlorinator Housing and reservoir at all times. Check Sprinkler discharge for Chlorine redidual. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the chlorinator reservoir
- **PERIODICALLY:** Open the Chlorinator Fill Lid and Visually Inspect the Chlorinator for debris such as dirt, grass clippings etc. Check Sprinkler discharge for Chlorine residual. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir.
- **YEARLY:** Visually inspect the Chlorinator Housing for any damage from lawnmowers, etc. Remove dirt/ant build up , grass, etc. from Chlorinator Housing Fill Lid. Check Sprinkler discharge for Chlorine residual.

If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir

FOR INTERMITTENT PERIODS OR EXTENDED PERIODS OF NON-USE

The EZ_Tank is designed to function under normal use or Intermittent periods of use. If periods of non use exceed 6 months, drain Chlorinator Housing and refill with 6-10% Sodium Hypochlorite. If Service is required, refer to the Data/Service Plate located on the Fill Lid of the Chlorinator reservoir.

ArcGIS Web Map





Olvera, Brandon

From: Olvera, Brandon

Sent: Tuesday, December 19, 2023 3:18 PM

To: Nicole Barnes **Subject:** 116942

RE: 520 Caribou Dr.

Deer River 2

Lot 124

Property Owner & Agent,

We received planning materials for the referenced permit application and found those planning materials to be deficient. To continue processing this permit, we need the following:



Show the property dimensions on the site plan.

On the variance request, indicate that the battery backup is your equivalent protection.

3. Revise accordingly and resubmit.

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

Thank You,

Note: Beginning January 1, 2024 our reinspection fees will be changing to \$150.00. Permit fee includes 3 inspections, \$150 each additional inspection

Brandon Olvera | Designated Representative OS0034792 | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

GW Designs Garrett R. Winters 1332 Mountain View DR, Canyon Lake TX

November 10th, 2023

Comal County Engineer's Office 195 David Jonas Drive New Braunfels, TX 78132

RE- **Septic design** 520 Caribou Dr. Spring Branch, TX 78070

Brandon/Brenda

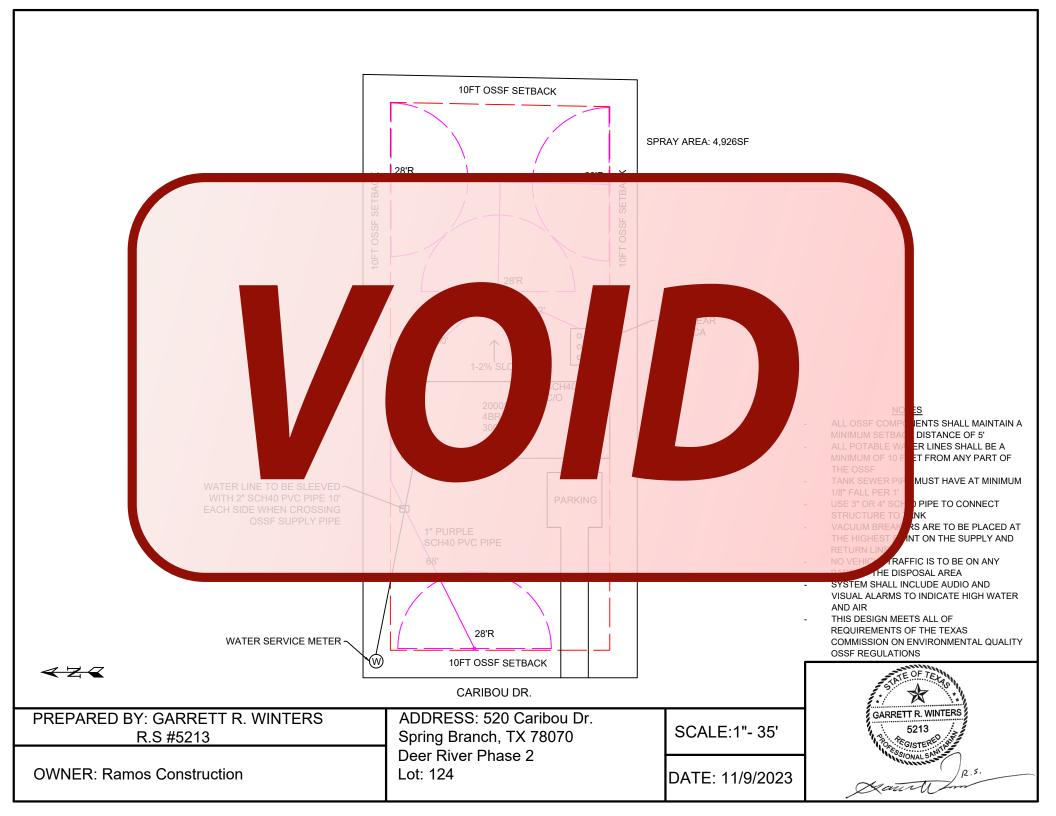
The unique circumstances of this property make it difficult to comply with the 20ft spray setback requirement. I hereby request a variance for the placement of the spray disposal area 10 feet from the property line, as well as a battery backup timer to be installed to ensure sprayers only spray during the predawn hours. This setback complies TCEQ TEP ble X. I prof to this variance not post area to environment or the complex complex to the complex of the complex complex to the complex to the complex complex to the complex complex to the complex complex complex to the complex c

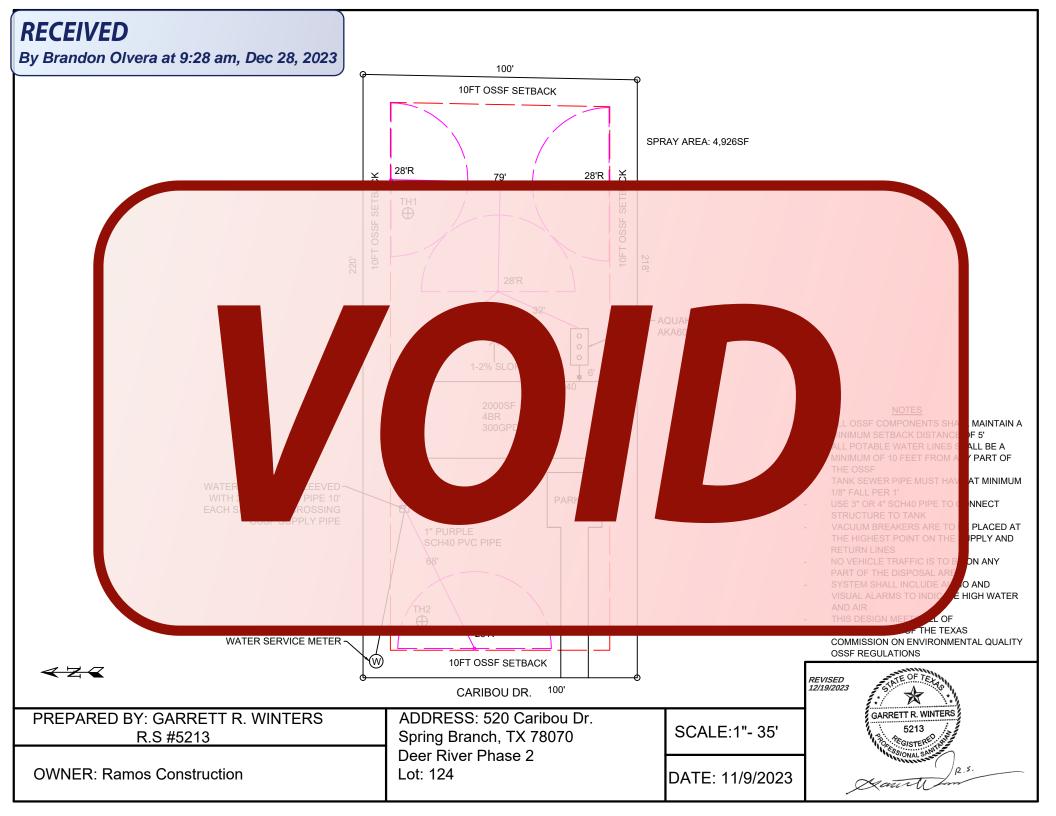
Please feet et htact rith any que hs que hcer

Sincerely,

Garrett R Winters R S







Owner/Site Location

Owner/Builder: Ramos Construction

Address: 520 Caribou Dr. Spring Branch, TX 78070

Subdivision: Deer River Phase 2

Lot: 124

LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with spray 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.

System Summary

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

- 600gpd Aerobic treatment unit (Aquaklear AKA600CA)
- Manual 24HR control timer
- 20gpm submersible effluent pump
- SCH40 PVC Sewer pipe
- 1" purple PVC SCH40 supply line
- Liqui rinator
- 2 K-R ar Driven Spriv 40PSI
- Sprin 180 De adius ag at 28ft
- Visual udio al honit ligh water are tor free placed noticeable in the

Wastewater gn F

Structure: 2,001

Bedrooms: 4

Wastewater Usa Ogpd

Application Rate

Application Area d: 4,688sf.

Actual Application Area: 4 926sf

System Components

Pretreatment Tank: 500gal

Du. Jank Rilliga

Aeration Tank: 600gpd

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

Pump tank reserve minimum: 100gal

Landscaping

The native vegetation in the distribution area should consist of low-level shrubs, plains grass, bluestem, or Bermuda. The entire application area must maintain a ground cover after construction. Exposed rock will be covered when in the application area with fine soil such as sandy loam.

If the slope in the drain field area is greater than 15% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. Surface application systems may apply treated and disinfected effluent upon areas with existing vegetation. If any ground within the proposed surface application area does not have vegetation, that bare area shall be seeded or covered with sod before system startup. The vegetation shall be capable of growth before the system start-up.

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.

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" 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.

dectrical 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 juntility boxes. All electric troompoper to the layer an electric troompoper to the place where the actrical device eing some standards are senting to the power for outdoor use) and the place where the actrical device eing some standards are placed to the place where the actrical device eing some standards are placed to the place where the actrical device eing some standards are placed to the plac

Maintenanc quire s

The homeowned time sponsit maintaining a rly f ning a treatment to the installer is response of dishing to meowner with stall many instructing meowner on proper use for the fosse. The awing provide the red by the eowner:

- A maintenance hust be may lears tenance to tenance to the forther hand to the forthe
- A constant support of prine must be page 187.
- The owner must promoit the discharge of greatering the OSSF system.
- Keep the spray area mowed and tank area free of ants and weeds
- Maintain all faucets and toilets inside the home free of leaks.
- Maintaining OSSF Chambers by pumping each of them out every 3-5 years to avoid sludge buildup.

Maintenance Contract

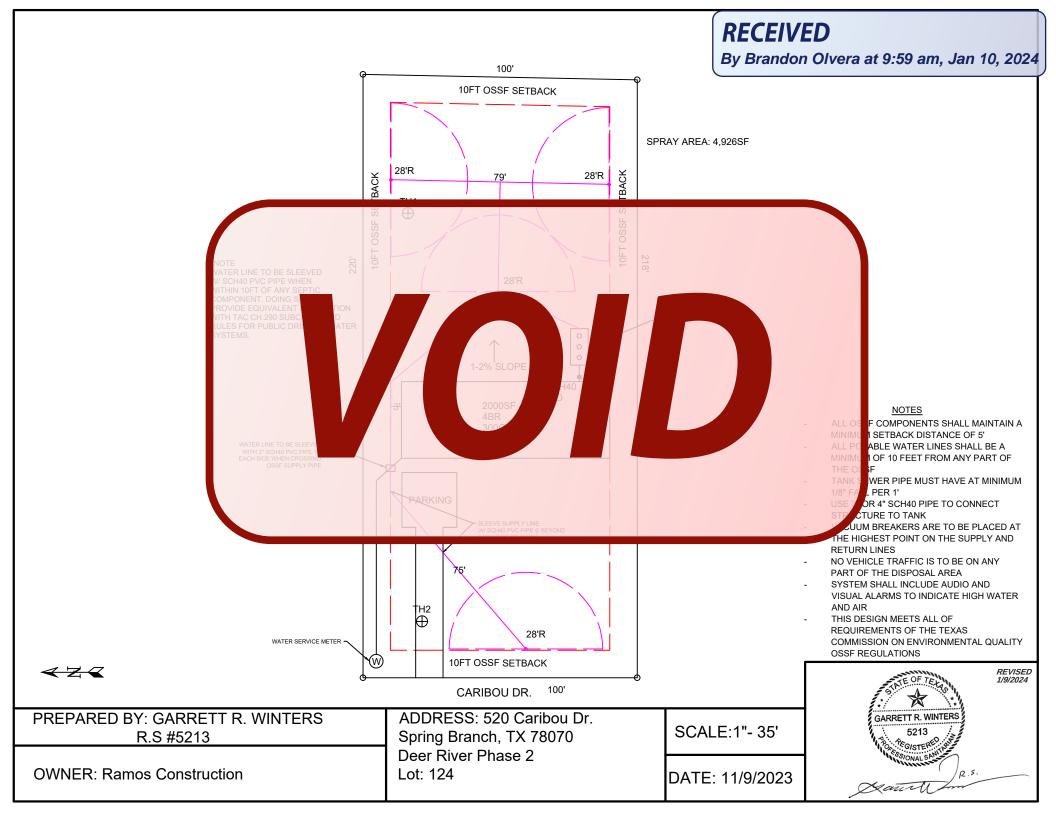
For any OSSF with a pump, the installer shall provide the Designated Representative with proof of an executed two-year full-service maintenance contract as required by the TCEQ. The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of 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.

<u> Affidavit</u>

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 TCFQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits size a transferry of the new of the permit up of the



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



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.

General Warranty Deed with Vendor's Lien

Date: 11th day of October, 2023

Grantor: Eli A. Strasimirofski, an unmarried man

Grantor's Mailing Address: P.O. Box 29823, San Antonio, TX 78229

Grantee: Ricardo Esequiel Sanchez and Carmen Elena Sims, husband and wife

Grantee's Mailing Address: 520 Caribou Dr., Spring Branch, TX 78070

Consideration: Cash and a note of even date executed by Grantee and payable to the order of Triad Manufactured Home Financial Services, Inc. in the principal amount of \$252,509.00. The note is secured by a first and superior vendor's lien and superior title retained in this deed in favor of Triad Manufactured Home Financial Services, Inc., and by a first-lien deed of trust of even date from Grantee to The Law Office of Robert W. Buchholz, PC, Trustee. Triad Manufactured Home Financial Services, Inc., at Grantee's request, has paid in cash to Grantor that portion of the purchase price of the Property that is evidenced by the note. The first and superior vendor's lien against and superior title to the Property are retained for the benefit of Triad Manufactured Home Financial Services, Inc. and are transferred to Triad Manufactured Home Financial Services, Inc. without recourse against Grantor.

Property (including any improvements):

Lot 124, DEER RIVER PHASE 2, a subdivision in Comal County, Texas, according to the map or plat thereof recorded under in Volume 8, Pages 359-361, of the Map and Plat Records of Comal County, Texas.

Reservations from Conveyance: None.

Exceptions to Conveyance and Warranty:

This conveyance is made and accepted subject to all restrictions, covenants, conditions, rights-of-way, assessments, outstanding royalty and mineral reservations and easements, if any, affecting the above described property that are valid, existing and properly of record as of the date hereof and subject, further, to taxes for the year 2023 and subsequent years.

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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.

The vendor's lien against and superior title to the Property are retained until each note described is fully paid according to its terms, at which time this deed will become absolute.

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

Eli A. Strasimirofski

STATE OF TEXAS COUNTY OF BEXAR

Before me, a Notary Public, on this day personally appeared Eli A. Strasimirofski, known to me or proved to me through photo ID to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 11th day of October, 2023.

Notary Public Signature

DEBORAH JAN YATES Notary Public, State of Texas Comm. Expires 11-01-2025 Notary ID 3910067

After recording, please return to:

Ricardo Esequiel Sanchez and Carmen Elena Sims

520 Caribou Dr.

Spring Branch, TX 78070

Filed and Recorded

Official Public Records

Bobbie Koepp, County Clerk

Comal County, Texas

10/12/2023 08:37:59 AM LAURA 2 Pages(s)

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