BLDR-2022-8653

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625

PERMIT # OSWP-2023-16054

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4629-85-0411

APPLICANT / OWNER: John Grier Stikeleather, Jr. APPLICANT ADDRESS: PO Box 585, Statesville, NC 28687--058

SITE ADDRESS: 564 STILLWATER RD, TROUTMAN, NC 28166 PHONE: ALT. PHONE:

SITE DIRECTIONS: Hwy 21 to State Park Rd Morrison Farm @ Daywalt Cut Rd @ Stillwater

SAP CONTROLLED: YES ☐ NO ☒

SUBDIVISION: Falls Park SECTION: – LOT #: 25 LOT AREA: 1.014 DESIGN FLOW: 480 L.T.A.R.: .25

Septic Tank: (gal) 1000	STB: 760	Date: 9/5/23	☑ New System ☐ Repair ☐ Expansion	System Type: III	☑ Residence	No. Bedrooms: 4	Water Supply: Municipal Water
Pump Tank: (gal)	PT:	Date:	System Description: HPPBPS - 50% Reduction		☐ Business	No. Persons: 3	
Pump Make:	Model:	Serial #:	Repair System Description: PPBPS - 50% Reduction		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 8	Linear Ft.: 320	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space	
Trench Width: 36in.	Trench Bottom Depth (Low side): 20in		Gravel Depth:	☑ GRAVITY ☐ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions:

INITIAL SITE SKETCH

This permit is issued pursuant to G.S. 130A-335(a2), (a3) & (a4) using the signed and sealed LSS/LG Evaluation attached here, from:

Soil + Forestry Services of the Carolinas PA

LSS# 1231

AS BUILT SKETCH

Installed as drawn

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration ☑ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☐ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: Date:

IMPROVEMENT PERMIT by: Benjamin A Beck Date: 2-20-2023

AUTHORIZATION TO CONSTRUCT by: Matt Wilson Date: 10/25/23

Installed By: Steve Jordan

OPERATION PERMIT by: Matt Wilson Date: 10/25/23

Existing System Inspected By: Date:

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 BETWEEN 8am-9am the day the inspection is needed.

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 2-14-23 (Date) by BB. (Initials)

Permit Number: OSWP-2023-16054.

G.S. 130A-335(a4) states the following: *'If a local health department fails to act on an application for an improvement permit submitted pursuant to subsection (a3) of the section within 10 business days of receipt of a complete application, the local health department shall issue the improvement permit.'*

In accordance with G.S. 130A-335(a3) the improvement permit application is:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the LSS and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: Benjamin A. Bates Date of Issuance: 2/20/2023.

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: 2/20/2028.

See attached site sketch

County: Iredell

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 4629850411

Issued To: Joel & Kris Milstead

Property Location: 564 Stillwater Road Troutman NC 28166

Subdivision: Falls Park Lot #: 25 Block: _____ Section: _____

LSS Report Provided: Yes ☑ No ☐

If yes, name and license number of LSS: Samuel Ashley Rollans #1731

New ☑ Repair ☐ Expansion ☐ System Relocation ☐

Proposed Structure: 4BR Residence

Proposed Wastewater System Type: HPPBPS (Initial) PPBPS (Repair)

Fill System: ☐ Yes ☑ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area please provide a fill plan)

Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.25 Proposed LTAR (Repair): 0.3

Design Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process

Number of bedrooms: 4 Number of Occupants: 8 Other: _____

Pump Required: ☐ Yes ☑ No ☐ May be required based upon final location and elevations of facilities

Artificial Drainage Required: ☐ Yes ☑ No If yes, please specify details: _____

Type of Water Supply: ☐ Private well ☐ Public well ☑ Municipal Supply ☐ Spring ☐ Other: _____

Drainfield location meets requirements of Rule .1945: Yes ☑ No ☐

Drainfield location meets requirements of Rule .1950: Yes ☑ No ☐

Permit valid for: ☑ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

see design

Licensed Soil Scientist Print Name: Samuel Ashley Rollans

Licensed Soil Scientist Signature: Samuel A Rollans Date: 1/31/23

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

County: Iredell

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 4629850411

Issued To: Joel & Kris Milstead

Property Location: 564 Stillwater Road, Troutman NC 28166

AOWE/PE Plans/Evaluations Provided: Yes ☑ No ☐ If yes, name and license number of AOWE/PE: 10027E

Facility Type: 4BR Residence.

☑ New ☐ Expansion ☐ Repair ☐ System Relocation

Basement? ☐ Yes ☑ No Basement Fixtures? ☐ Yes ☑ No

Type of Wastewater System** HPPBPS (Initial) PPBPS (Repair)

Design Daily Flow: 480 GPD Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☐ Yes ☑ No

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 320 feet Trench/Bed Spacing: 9 feet on center

Drainfield square footage: 960 Trench/Bed Width: 36 inches LTAR: 0.25 gpd/ft²

Soil Cover: 6 inches min Slope Adjusted Maximum Trench/Bed Depth: 20 inches

Aggregate Depth: _____inches above pipe _____inches below pipe _____inches total

Pump Tank Size (if applicable): _____ gallons Requires more than 1 pump? ☐ Yes ☐ No

Pump Requirements: _____ ft. TDH vs. _____ GPM Grease Trap Size (if applicable): _____ gallons

Distribution Method: ☐ Serial ☑ D-Box or Parallel ☐ Pressure Manifold(s) ☐ LPP ☐ Other: _____

Artificial Drainage Required: Yes ☐ No ☑ If yes, please specify details: _____

Legal Agreements *(If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)*

Multi-party Agreement Required [.1937(h)]: ☐ Yes ☑ No

Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: ☐ Yes ☑ No

Declaration of Restrictive Covenants: ☐ Yes ☑ No

****If applicable:**

I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.

Owner/Legal Representative Print Name: _____

Owner/Legal Representative Signature: _____ Date: _____

Pre-Construction Conference Required: Yes ☑ No ☐

Conditions: See Design

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

AOWE/PE Print Name: Samuel Ashley Rollins

AOWE/PE Signature: Samuel A Rollins Date: 1/31/23

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch

NC ONSITE WASTEWATER Certification Number 10027E EVALUATOR

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 22-0173
January 31st, 2023

Joel & Kris Milstead
Attn: *Joel Milstead*
Email: joel.milstead@yahoo.com

RE: Soil & Site Evaluation for a 4 Bedroom Residence at 564 Stillwater rd, 1.04 ac Parcel, PIN# 4629850411, Troutman, NC 28166, Iredell County, NC.

Joel & Kris:

At your request Soil & Forestry Services of the Carolinas (S&FS) has performed soil/site evaluations on parcel noted above. The Lot size is noted on the attached survey map & soil evaluation form. The purpose of our work was to identify soil areas with potential to support subsurface wastewater disposal systems and provide design details for Session Law submittals to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly cleared and partially wooded in the back. Topography within the evaluated area was gentle to moderate slope near the house site with gentle percentage of slope in the proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Lance Shaumback Land Surveying. The Surveyor provided an Autocad File of the survey with the proposed house envelope as a basemap. The proposed house envelope was move back 5 feet per the builder and owner. The proposed septic layout was located via GPS and tape measures which were used to produce the attached *Site Plan*. The house envelope shall be surveyed pinned prior to construction.

Methodology

We evaluated soil areas through the use of backhoe pits. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with nine pit locations on the property flagged and located via GPS. Eight of the nine pits are located in or adjacent to the proposed septic layout. Soil suitability was determined by referencing 15A NCAC 18A.1900 "Laws and Rules for Sewage Treatment and Disposal Systems". *Soil & Site Evaluation Forms* were utilized to record the soil morphological data for each pit. The house envelope was located via survey but moved back 5 feet. The Site Plan illustrates the final house location. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by survey and tape measure. Detailed system & repair information is summarized in the following paragraph for this Lot.

564 Stillwater Road (*See Attached Design*)
The septic layout for this lot (9' centers primary, 8' centers repair) yielded a total of 658 linear feet of line. The primary system is proposed as 320 linear feet of Modified Conventional (HPPBPS) drainfield with gravity distribution. Low Side trench depth is specified at 20 inches. The repair system is proposed as 267 linear feet of Modified Conventional (PPBPS) drainfield with low pressure distribution. Low Side trench depth is specified at 32 inches. There is 281 linear feet available for repair. See design for any additional conditions.

Session Law Requirements

All information needed to issue the IP must be submitted with the application. The application shall include all information described in 15A NCAC 18A .1937(d) and be accompanied by a signed and dated statement from the applicant (owner or owner's legal representative) that reads as follows:

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

Owner

* Print Name John Stikeleather Date

* Signature [signature] 2/6/23

The LSS evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

"The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."

Disclaimer
This report reflects the findings of S&FS, PA. *This LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."* Any site modifications that impact the proposed septic areas on this site may nullify this design for 564 Stillwater Road. System design requirements and site requirements shall be adhered to for installation and Operations Permits to be issued by the local Health Department. If you have questions regarding these requirements a Pre-Construction meeting should be scheduled to discuss. Please contact S&FS if you have any questions regarding this report or the attached information. S&FS also offers septic system inspection, wetland delineation and forestry services.

Sincerely,

LICENSED SOIL SCIENTIST
SAMUEL A. ROLLANS
1231
STATE OF NORTH CAROLINA

S. Ashley Rollans, LSS
Attachment: *Septic Design*

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for an Modified Conv. HPPBPS with gravity distribution for a 4 bedroom single family residence 564 Stillwater Road Troutman, NC 28166, Iredell County, NC. PIN#: 4629850411

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Layout Specifications	4
System Tapsheet	5
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Profile Descriptions	8
Improvements Permit Form	9
Construction Authorization Form	10

January 12, 2023
Project #: 22-0173
Design By: Soil & Forestry Services OF The Carolinas, PA

LICENSED SOIL SCIENTIST
SAMUEL A. ROLLAND
1231
STATE OF NORTH CAROLINA

INFORMATION FOR THE INSTALLER:

The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.

- Tanks shall be approved by NC DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a GRAVITY HPPBPS w/D-Box installation.
- Repair is specified as a LOW PRESSURE PPBPS installation.
- Backfill 4 - 6" of material (County Approved) over panels, rake trench walls, lime side-walls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.
- **Silt fencing is required around primary septic area during all construction activity**

564 Stillwater Road

Project #: 22-0173

LAYOUT FOR 4 BEDROOM HOME

January 12, 2023

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		NA			NA		
INSTR. 1			NA				
HOUSE CNR				NA	NA		
P. TANK				NA	NA		
1	BLUE			NA	NA	53	53
2	RED			NA	NA	51	51
3	YELLOW			NA	NA	29	29
4	RED			NA	NA	74	74
5	YELLOW			NA	NA	74	74
6	***RED***			*NA*	*NA*	***40***	***40***
7	***ORANGE***			*NA*	*NA*	***40***	***40***
8	***YELLOW***			*NA*	*NA*	***40***	***40***
9	***BLUE***			*NA*	*NA*	***65***	***40***
10	***RED***			*NA*	*NA*	***58***	***40***
11	***ORANGE***			*NA*	*NA*	***48***	***40***
12	***YELLOW***			*NA*	*NA*	***46***	***40***
13	***BLUE***			*NA*	*NA*	***40***	***40***
					Total	658	601

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	TRENCH DEPTH
**** System***	***320***	***0.25***	***MOD. CONV.***	***0.25***	***HPPBPS***	***GRAVITY D-BOX***	***20"***
Repair	281	0.3	MOD. *CONV.*	0.3	PPBPS	LOW PRESSURE	32"

Notes: ** TBM NOT REQUIRED
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**Drainlines located via GPS & Tape Measure

HPPBPS TAPSHEET -564 Stillwater Rd

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
6	***RED***	n/a	***40***	n/a	**n/a**	120	9
7	***ORANGE***	n/a	***40***	n/a	**n/a**	120	9
8	***YELLOW***	n/a	***40***	n/a	**n/a**	120	9
9	***BLUE***	n/a	***40***	n/a	**n/a**	120	9
10	***RED***	n/a	***40***	n/a	**n/a**	120	9
11	***ORANGE***	n/a	***40***	n/a	**n/a**	120	9
12	***YELLOW***	n/a	***40***	n/a	**n/a**	120	9
13	***BLUE***	n/a	***40***	n/a	**n/a**	120	9
							72

total	**feet =**	**200**	**gal/min =** **n/a**
		Des. Flow	**480**
		Pump Run=	**n/a**
		soil LTAR	**0.25**
		LTAR +5%	**0.2625**
		LTAR with mod.	**0.5**
		LTAR with mod.. + 5%	**0.525**

GRAVITY HPPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Kristen Milstead
Address:	145 Sequoia Street Mooresville, NC 28117
Phone:	704.301.6174
County:	Iredell
Location:	564 Stillwater Road Troutman, NC 28166
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	480
System Flow:	NA

Design Specifications

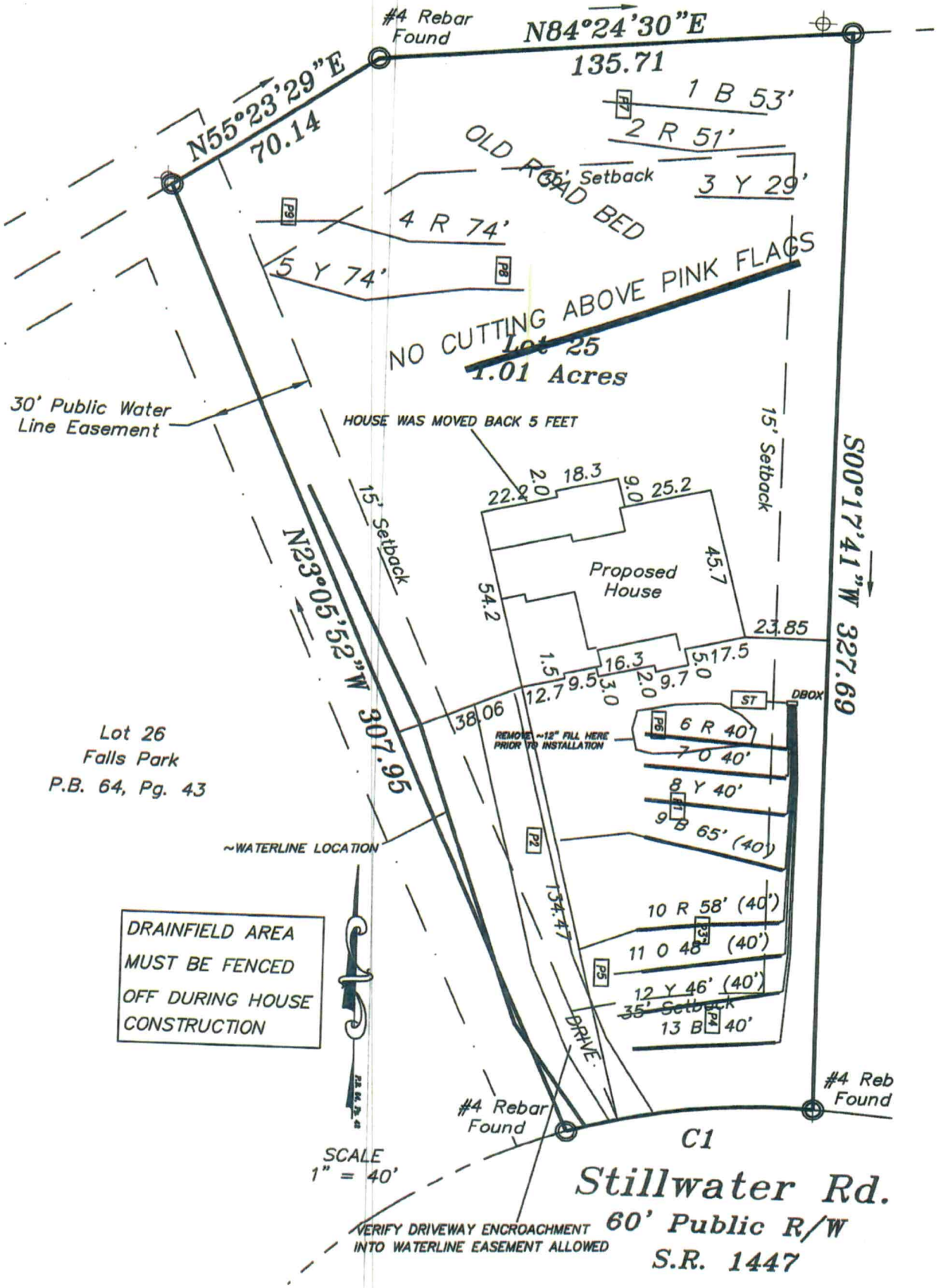
Drainfield Size:	320
Loading Rate (gpd/ft.^{2}):	0.25
Depth of Gravel in Trench:	NA (PPBPS)
Gravel Size:	NA (PPBPS)
Trench Depth (Low Side):	20 in. Repair 32in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	NA
Estimated Supply Line Length:	7
Supply Line Diameter:	3 in. SCH 40 PVC
Supply Line Volume:	1.22
Dosing Volume:	NA
Supply Manifold:	DISTRIBUTION BOX
Supply Manifold Length:	N/A
Supply Manifold Volume:	N/A
Recommended Float Controls:	NA
Recommended Control Panel:	NA
Pressure Head:	NA
Friction Head:	NA
Elevation Head:	NA
Total Dynamic Head:	NA
Threaded Union:	NA
Gate Valves:	NA
Check Valves:	NA
Anti-Siphon Hole:	NA
Additional Comments:	Soil & Forestry Services of the Carolinas

564 Stillwater Road

GRAVITY HPPBPS

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.25
TOTAL AREA TRENCH BOTTOM:	960
TOTAL LATERAL LENGTH:	320
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	320
SUPPLY LINE LENGTH:	7
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	N/A
DOSING VOLUME:	NA
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	NA

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*


#4 Rebar Found
N84°24'30"E
135.71
N55°23'29"E
70.14
1 B 53'
2 R 51'
3 Y 29'
4 R 74'
5 Y 74'
OLD ROAD BED
15' Setback
NO CUTTING ABOVE PINK FLAGS
Lot 25
1.01 Acres
30' Public Water Line Easement
HOUSE WAS MOVED BACK 5 FEET
15' Setback
15' Setback
S00°17'41"W 327.69
N23°05'52"W 307.95
Proposed House
22.2
2.0
18.3
9.0
25.2
45.7
54.2
23.85
1.5
16.3
5.0
17.5
12.7
9.5
3.0
2.0
9.7
38.06
ST
DBOX
REMOVE ~12" FILL HERE PRIOR TO INSTALLATION
6 R 40'
7 O 40'
8 Y 40'
9 B 65' (40')
10 R 58' (40')
11 O 48' (40')
12 Y 46' (40')
35' Setback
13 B 40'
134.47
DRIVE
Lot 26
Falls Park
P.B. 64, Pg. 43
~WATERLINE LOCATION
DRAINFIELD AREA MUST BE FENCED OFF DURING HOUSE CONSTRUCTION
#4 Rebar Found
#4 Reb Found
C1
SCALE 1" = 40'
VERIFY DRIVEWAY ENCROACHMENT INTO WATERLINE EASEMENT ALLOWED
Stillwater Rd.
60' Public R/W
S.R. 1447

CALCULATIONS

Location 564 Stillwater Road
Troutman, NC 28166
Project Number 22-0173

Lot No: Lot 25

No. of Bedrooms 4

Design Flow 480 $^{gal}/_{day}$

LTAR 0.25 $^{gal}/_{ft^2\ day}$

HPPBPS? (YES OR NO) YES

Supply Line Length 7 ft.

Supply Line Volume 1.218 gal.

Required Feet of Line 320 ft.
Amount of Line from Layout 320 ft.

Gallons per Minute NA $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Minimum Standard Tank Size 1000

Panel Volume 3.6 gal.
# of Panels 72
Dosing Volume NA gal.

Tank Draw Down NA *Generic Draw Down of 21 gal.per in.*

Pump Run Time NA minutes

Elevation Head NA ft.
Pressure Head NA ft.
Friction Factor NA ft./100 ft. *(From the interpolater.)*
Friction Head NA ft.

Total Dynamic Head (+15%) NA ft.

FRICTION FACTOR
INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

Sheet 1 of 1
PROPERTY ID #: 4629850411
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(complete all fields in full)

OWNER: Joel & Kristen Milstead
ADDRESS: 145 Sequoia Street, Mooresville, NC 28117
PROPOSED FACILITY: 4 Bedroom Residence
LOCATION OF SITE: 564 Stillwater Road, Troutman, NC 28166

APPLICATION DATE:
DATE EVALUATED: 12/13/2022
PROPERTY SIZE: 1.01 ac
PROPERTY RECORDED: YES

WATER SUPPLY: ☐ Private ☐ Well ☐ Spring ☑ Other Public Water
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPR CLASS	.1944 RESTR HORIZ	
1	L/5%	0-9	RBCL/SCLWFSBK	FRSSSP	few magn c fe depl chr2@36-44	52			0.25
		9-34	RBSCL/CWMSBK/ABK	FRSP					
		34-44	BRCWMSBK WMABK/SBK	FRSP					
		44-52	RBCLWFSBK	FRSSSP					
2	L/5%	0-5	BSCLWFSBK	FRSSSP	few to c fe depl& magn chr2@26" few to c fe depl&chr2	37	UN		0.1 DRIP
		5-13	RBSCLWFSBK	FRSSSP					
		13-37	BRCWMSBK	FRSSP					
		37-62	RYSC/SAP MIXED VWFSBK	FRSSSP					
3	L/6%	0-10	BSLGR	FRSSSP	c.fe depl&chr2	61			0.25-0.275
		10-22	BSCLWFSBK	FRSSSP					
		22-46	BRCWMSBK	FRSP					
		46-61	BRCWMABK	FRSSSP					
4	L/6%	0-7	DBSLGR	FRSSSP	c.fe depl&chr2@43"	55			0.25
		7-18	RBSCLWFSBK	FRSSSP					
		18-43	BRCWMSBK	FRSP					
		43-55	BRCWMSBK	FSSP					
5	L/6%	0-27	BSCLWFSBK	FRSSSP	few magn	61			0.275
		27-39	RBSCLWFSBK	FRSP					
		39-61	BRCWMSBK/ABK	FRSP					
6	L/6%	0-18	FILL	Remove 12"	compacted	65			0.3
		18-22	BSCLWFSBK	FSSSP					
		22-65	RBCWMSBK/ABK	FRSSP					
7	L/8%	0-7	BSCLWFSBK	FRSSSP	few wr	56			0.3
		7-30	BRCWFSBK/ABK	FRSSSP					
		30-56	RBCLWFSBK	FRSSSP					
8	L/7%	0-20	RBSCLWFSBK	FRSSSP	few wr	53			0.3
		20-53	BRCWMSBK	FRSSSP					
9	L/7%	0-5	RBSCLWFSBK	FRSSSP	few sap	52			0.3
		5-32	RBCWMSBK	FRSSP					
		32-52	RBCLWFSBK	FRSSSP					
		STONE @46" ON 1 SIDE OF PIT ~15%							
10									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Types(s)	HPPBPS	PPBPS
Site LTAR	0.25	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Ashley Rollans
OTHER(S) PRESENT: Chad Wagner & Mason Freeman

COMMENTS: Any native soil removal could require cover to be brought in over primary system (At-Grade). Primary System area must be silt fenced during construction of home.

LICENSED SOIL SCIENTIST SAMUEL A. ROLLANS 1231 STATE OF NORTH CAROLINA