ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 x3456 Mooresville Office (704) 660-3625

BLDG-2025-55620

PERMIT: OSWP 2024-47705

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

PIN # 4730 - 66 - 1449

APPLICANT/OWNER: Niblock Homes LLC

APPLICANT ADDRESS: 759 Concord Pkwy N STE 20 Concord, NC 28027

SITE ADDRESS: 112 Saddlehorn Trail Troutman NC 28166

PHONE: 704-310-1832

ALT. PHONE

SITE DIRECTIONS: Perth Rd site on Right

SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Saddlehorn

SECTION: - LOT # 21 LOT AREA: 1.03ac DESIGN FLOW: 480gpd

L.T.A.R.(Initial): .25 L.T.A.R (Repair): .125

Septic Tank 1000 (gal) STB Norweco Date

Pump Tank 1000 (gal) PT Norweco Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 5 Linear Ft 320

Trench Width 24in *Max. Trench Depth(Initial) 34in *Max. Trench Depth(Repair) 6 Gravel Depth -

* Measured on the downhill side of the trench

Effluent Standard: ☒ DSE ☐ HSE ☐ TS-I ☐ TS-II ☐ RCW ☐ NSF/ANSI 40

☒ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

System Description: PM-VPPBPS-50% Reduction.

Repair System Description: Drip Repair

Maintenance Agreement Required: ☐ YES ☒ NO

☐ GRAVITY ☒ PRESSURE

Usable Depth to LC (Initial): 48in

Usable Depth to LC (Repair): 18in Limiting Condition

☒ Residence No. Bedrooms 4

☐ Business No. Persons 8

☐ Other No. Employees

☐ Slab ☒ Crawl Space

☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions:

INITIAL SITE SKETCH

See attached Site plan and Design by Michael Athanas & Associates

AS BUILT SKETCH

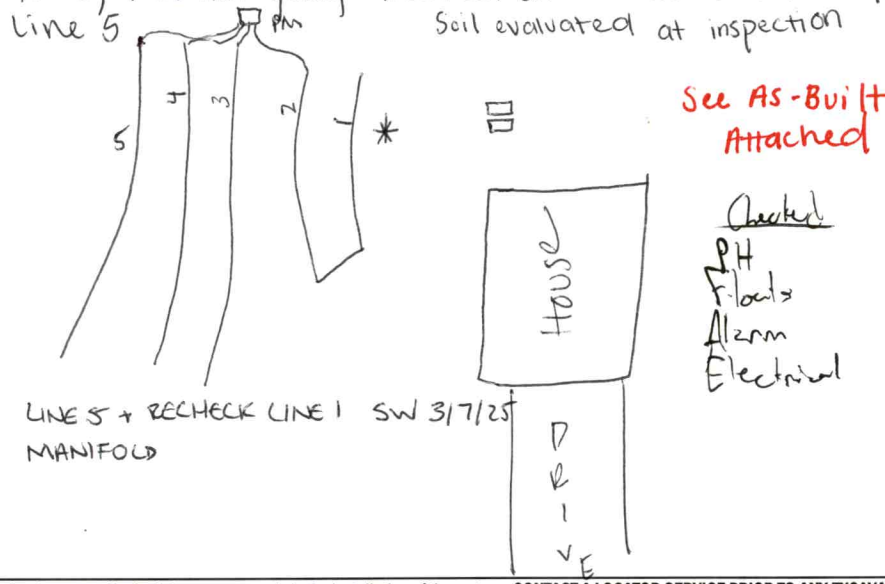
FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am

the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

2/6/2025- Tank Checked

3/4/25 - Lines 1-4 -SH

↳ Line 2 deeper than line 1. Line 1 to be dug 2" deeper to achieve fall from line 2. Pit dug where * is; Pool nor garage marked at install. Still need Line 5 Soil evaluated at inspection



See As-Built Attached

Checked
PH
Floats
Alarm
Electrical

LINE 5 + RECHECK LINE 1 SW 3/7/25

MANIFOLD

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:

Installed by: Larry Hinkle (Alan Howe)

IMPROVEMENT PERMIT by: Benjamin Bost Date: 3-15-2024

OPERATION PERMIT by: Matt Wiz Date: 3/26/25

AUTHORIZATION TO CONSTRUCT by: Benjamin Bost Date: 2/13/2025

Existing System Inspected by: Date:

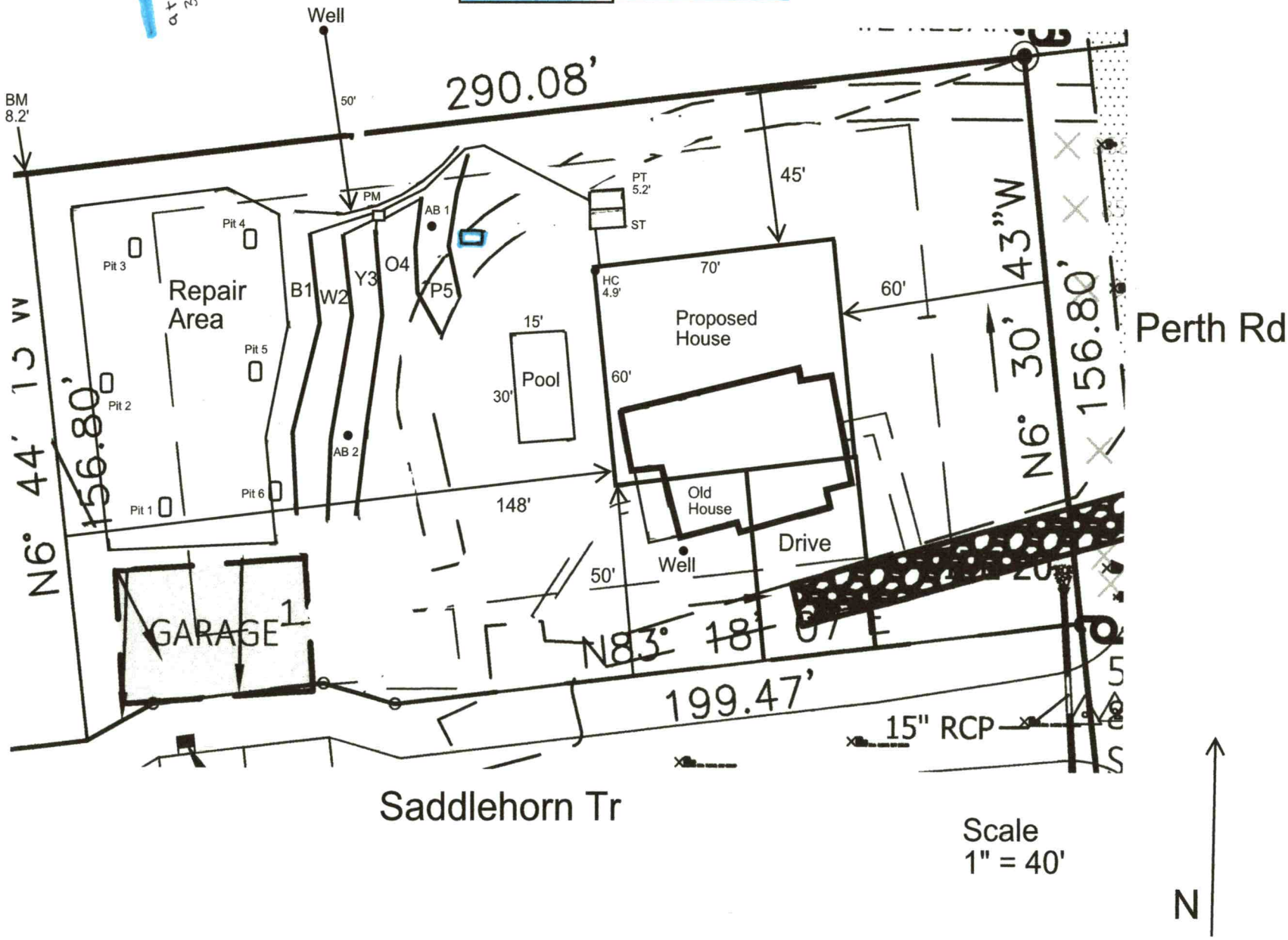
Item	Date	Initials
Drain Lines Checked		~~BB~~ SH
Tanks Checked		BB
Pressure Manifold or Valve Box Checked		SH
Pressure Head Set		MW
Electrical Checked		MW
Floats Set		MW
Alarm Checked		MW
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	

Pit evaluated at inspection 3/4/25

B1 - 80' - 5.0'
W2 - 80' - 4.5'
Y3 - 80' - 4.1'
O4 - 40' - 3.9' → 38" L.S
P5 - 40' - 4.5' → 44" L.S

As Built Sketch



DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4730516416260
COUNTY: Iredell

SOIL/SITE EVALUATION *for* ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Gary McNeely DATE EVALUATED: 3/5/25
ADDRESS: 112 Saddlehorn
PROPOSED FACILITY: 4BR PROPOSED DESIGN FLOW (.0400): 480gpd PROPERTY SIZE:
LOCATION OF SITE: 112 Saddlehorn PROPERTY RECORDED: yes
WATER SUPPLY: ☐ Public ☐ Single Family Well ☐ Shared Well ☐ Spring ☐ Other WATER SUPPLY SETBACK:
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Domestic ☐ High Strength ☐ IPWW

PROFILE #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY .0503 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY .0503 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0503 SLOPE CORRECTION
1		0-9	SCL / SBK	SS-SP-FR-SE			-	—	.3	
		9-32	C / WABK	S-SP-FR-SE → Light Brown						
		32-64	CL / SBK	SS-SP-FR-SE → heavy Sap inc.		64"				
2										
3										
4										

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)		
System Type(s)		
Site LTAR		
Maximum Trench Depth		

SITE CLASSIFICATION (.0509):
EVALUATED BY: S. Holland
OTHER(S) PRESENT: D. Wiebury

Comments:

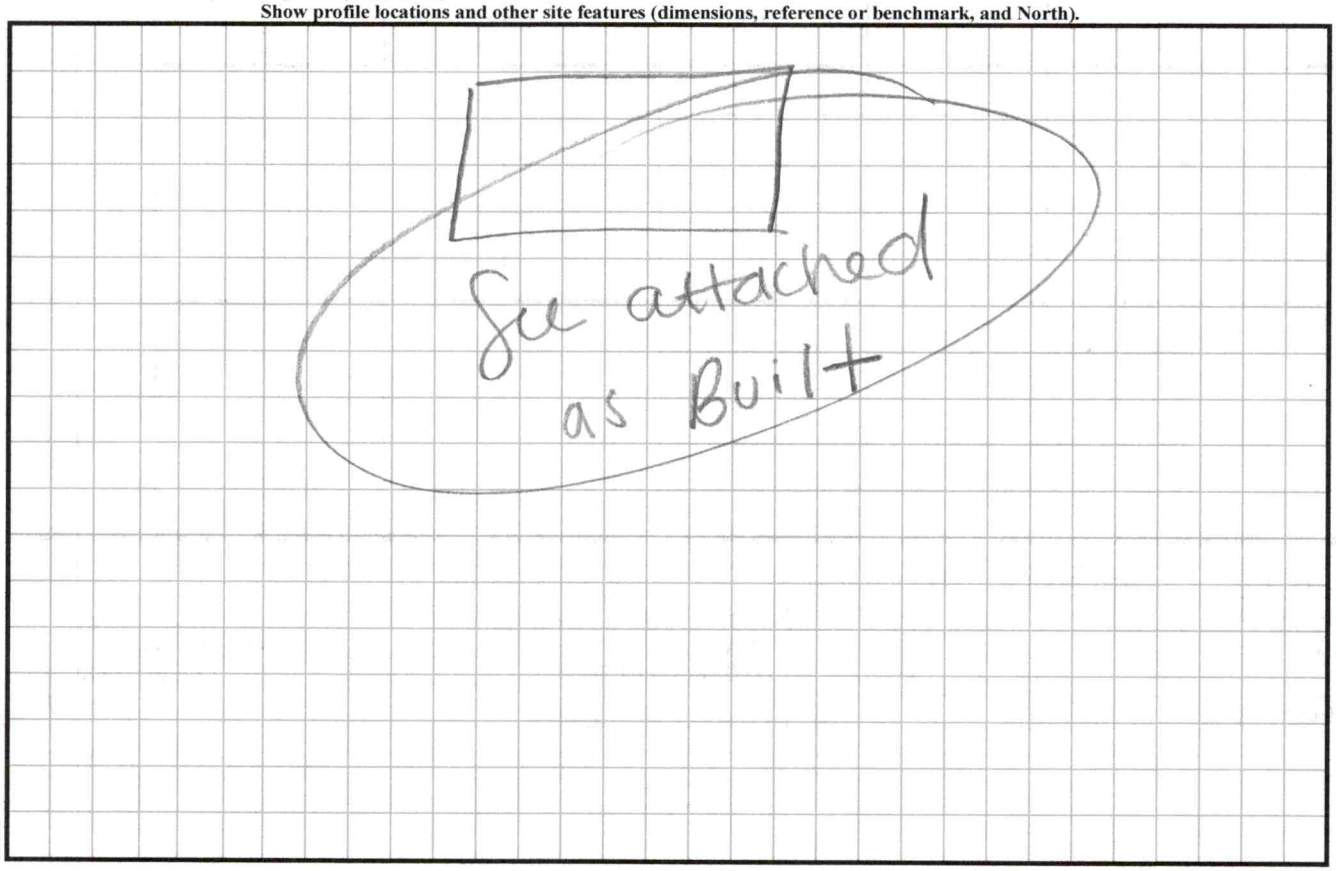
LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 -0.6	MOIST	WET	SG (Single grain)
CV (Convex Slope)		LS (Loamy sand)		0.5 -0.7		Lo (Loose)	NS (Non-sticky)	M (Massive)
D (Drainage way)	II	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)	III	SiL (Silt loam)	0.3 - 0.6	0.1 - 0.3	0.15 - 0.3	FI (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)		CL (Clay loam)		None		EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	
R (Ridge/summit)		Si (Silt)					VP (Very plastic)	
S (Shoulder slope)	IV	SC (Sandy clay)	0.1 - 0.4		0.05 - 0.2	SEXP (Slightly expansive)		
T (Terrace)		SiC (Silty clay)				EXP (Expansive)		
TS (Toe Slope)		C (Clay)						
		O (Organic)	None					

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.
**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH In inches below natural soil surface
DEPTH OF FILL In inches from land surface
RESTRICTIVE HORIZON Thickness and depth from land surface
SAPROLITE S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.
SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION S (Suitable) or U (Unsuitable)

Show profile locations and other site features (dimensions, reference or benchmark, and North).



ICHD Approved. 3/15/2023

MA&A
SOIL & ENVIRONMENTAL CONSULTANTS

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556Walden Trail
Weddington, NC 28173
(704) 576-3887
1/5/2024

LICENSED SOIL SCIENTIST
MICHAEL
STATE OF NORTH CAROLINA

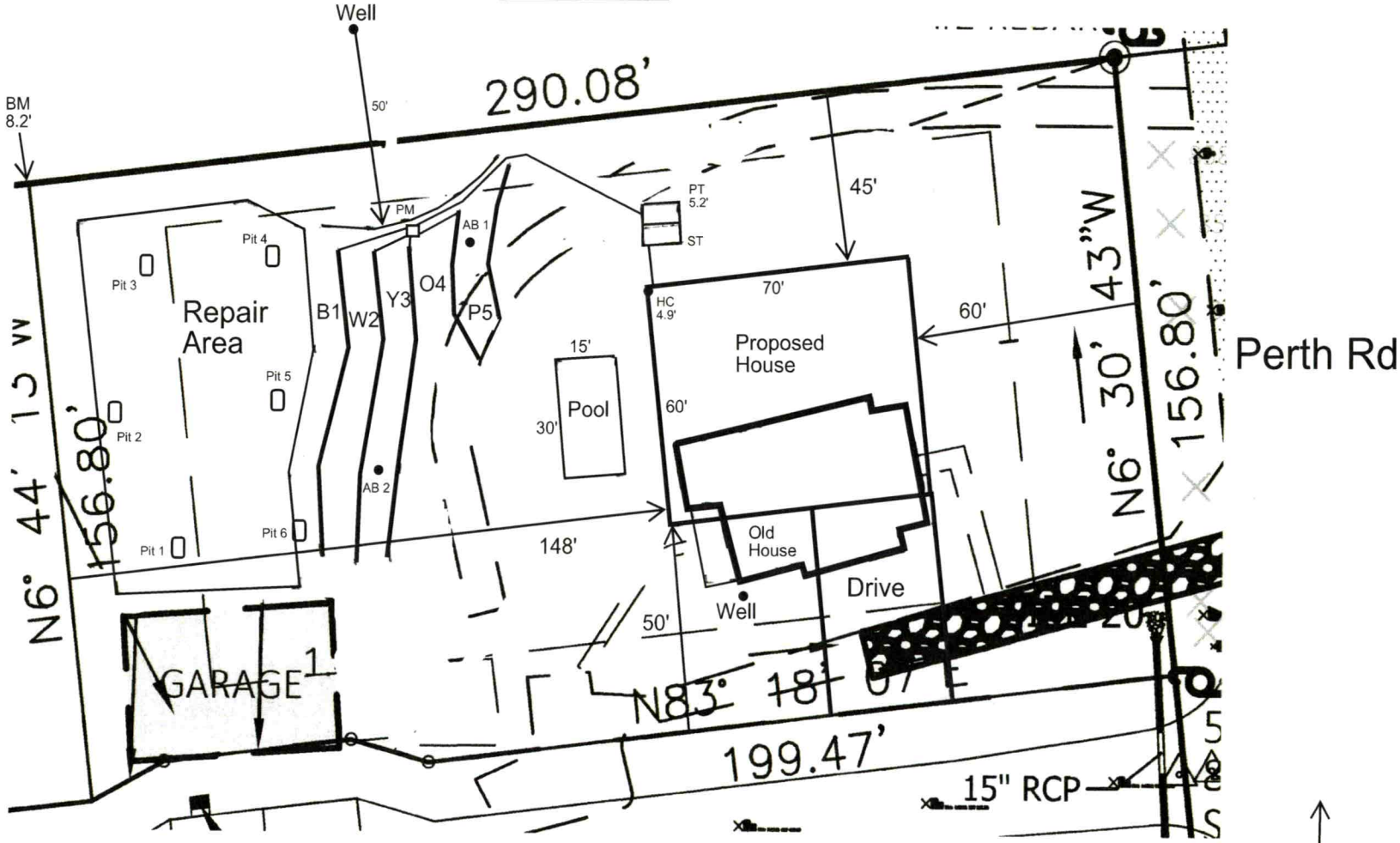
Reference: Data Sheet for 112 Saddlehorn Trl, Saddlehorn Lot 21
House Footprint: 70' x 60'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private Well
Number of Bedrooms/Daily Flow: 4/480 GPD
Proposed LTAR: 0.25 GPD/FT^2 (initial), 0.125 GPD/FT^2 (repair)
Proposed System Type: PPBPS Vertical
Proposed Repair System Type: Drip Dispersal
Distribution: Pressure Manifold
Flow per Tap: 7.11 GPM
Tap Size and Material: ½" SCH 40
System Flow: 28.44 GPM
Dosing Volume: 270 gallons
Pump Run Time: 9.5 minutes
Elevation Head: 6.3'
Friction Head: 1.3'
Pressure Head: 2'
Total Dynamic Head: 9.6'
Supply Line Length: 70' of 2" PVC
Septic/Pump Tank Size: 1000/1000 gallons
Trench Bottom: 36" (initial), 6" (repair)
GM 3/1/2024

Line	Design Length	# of Panels	Actual Length	Elevation
Blue 1	80'	19	86'	5.0'
White 2	80'	19	87'	4.5'
Yellow 3	80'	19	87'	4.1'
Orange 4	40'	9	40'	3.9'
Pink 5	40'	9	40'	4.5'

Initial System: 320'
Repair System: 4950 FT^2
Pump Tank: 5.2'
House Corner: 4.9'
Benchmark: 8.2'

Comments:

B1 - 80' - 5.0'
W2 - 80' - 4.5'
Y3 - 80' - 4.1'
O4 - 40' - 3.9'
P5 - 40' - 4.5'



SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Niblock Homes_____ APPLICATION DATE_____
ADDRESS: 759 Concord Parkway N, Concord, NC 28027_____ DATE EVALUATED: __11/2023_____
PROPOSED FACILITY: __4 BDRM_____PROPOSED DESIGN FLOW (.1949): _480 GPD___ PROPERTY SIZE: _1.030 AC_____
LOCATION OF SITE: 112 Saddlehorn Tr, Saddlehorn Lot 21_____ PROPERTY RECORDED: _____
WATER SUPPLY: X Private Public X Well Spring Other _____
EVALUATION METHOD: X Auger Boring X Pit Cut TYPE OF WASTEWATER: X 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 SAPRO CLASS	.1944 RESTR HORIZ	
PIT 1	LS 6%	0-11	YBr CL WSBK	FR SS SP SXP	CHR 2 @ 27"	27"	N/A	N/A	PS 0.25
		11-21	Y CL WSBK	FR SS SP SXP					
		21-27	YR C WSBK	FR SS SP SXP					
PIT 2	LS 6%	0-14	Br SCL WSBK	FR SS SP SXP	Com YB	52"	N/A	N/A	PS 0.25-0.225
		14-29	YB CL SBK	FR SS SP SXP					
		29-52	R C ABK	FR SS SP SXP					
PIT 3	LS 6%	0-12	Br CL WSBK	FR SS SP SXP	Chr 2 @ 21"	21"	N/A	N/A	DRIP 0.125
		12-21	RY C ABK	FR SS SP SXP					
PIT 4	LS 8%	0-10	YBr CL WSBK	FR SS SP SXP	YB 21-36"	55"	N/A	N/A	PS 0.25
		10-21	R C WSBK	FR SS SP SXP					
		21-36	R C ABK	FR SS SP SXP					
		36-55	R CL WSBK	FR SS SP SXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	640 FT^2	4950 FT^2
System Type(s)	VPPBPS	DRIP
Site LTAR	0.25	0.125

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: _____MA&A_____
OTHER(S) PRESENT: _____

COMMENTS:_____

SOIL/SITE EVALUATION

(Continuation Sheet)

PROPERTY ID #: Saddlehorn 21___
DATE OF EVALUATION: _____
COUNTY: __IREDELL____

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 SAPRO CLASS	.1944 RESTR HORIZ	
PIT 5	LS 8%	0-12	Br SCL WSBK	FR SS SP SXP	YB	48"	N/A	N/A	PS 0.25
		12-18	YB CL WSBK	FR SS SP SXP					
		18-48	R C ABK	FR SS SP SXP					
PIT 6	LS 8%	0-18	Br CL WSBK	FR SS SP SXP	YB 18-42"	55"	F-C SAP	N/A	PS 0.25
		18-42	R C ABK	FR SS SP SXP					
		42-55	R CL WSBK	FR SS SP SXP					
AB 1	LS 6%	0-4	FILL		N/A	48"	N/A	N/A	PS 0.3
		4-30	R C SBK	FR SS SP SXP					
		30-48	R CL WSBK	FR SS SP SXP					
AB 2	LS 6%	0-4	Br CL WSBK	FR SS SP SXP	Few YB to 28"	48"	N/A	N/A	PS 0.25-0.275
		4-28	R C SBK	FR SS SP SXP					
		28-48	R CL WSBK	FR SS SP SXP					

COMMENTS: _____

Lot 21

PERMIT SNAPSHOT REPORT OSWP-2024-47705 FOR IREDELL COUNTY

Permit Type	OSWP - AOWE|Session Law|EOP|Expedited Review	**Project:**		**App Date:**	02/22/2024
Work Class:	OSWP - AOWE|Session Law|EOP|Expedited Review	**District:**	Iredell County	**Exp Date:**	NOT AVAILABLE
Status:	PRIORITY PERMIT	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	Botkins, Ben	**Approval Expire Date:**	
Description:	IP only				

Parcel: 4730564626.000 Main	**Address:** 112 Saddlehorn Trl Troutman, NC 28166 Main	**Zone:** R-20(Suburban Residential District)

Applicant	Soil Scientist	Property Owner
Michael Athanas & Associates	Michael Athanas & Associates	NIBLOCK HOMES LLC
Gary McNeely	Gary McNeely	759 CONCORD PKWY N STE
2630 Statesville Blvd	2630 Statesville Blvd	20
Salisbury, NC 28147	Salisbury, NC 28147	CONCORD, NC 28027
Mobile: (704) 310-1832	Mobile: (704) 310-1832	

Permit Custom Fields

EHExpeditedApplication/PermitType	Expedited Review	How is your site plan being submitted	Survey Plat	Does the site contain any jurisdictional wetlands	No
Non-domestic Sewage Generated	No	Other Public Agency	No	All proposed structure dimensions	60' x 70'
If other Addition/Structure, please explain		Maximum Number of Bedrooms	4	Number of Occupants	8
Foundation Type	Crawl Space Foundation	Water Supply	New Well	Desired Septic System Type	Modified Conventional
If other septic system type, please explain		Has this project been approved by TRC	No	Front Setback	35
Back Setback	35	Left Setback	15	Right Setback	25
Zoning Permit Issued Date	Feb 26 2024 12:00AM	Zoning Permit Expiration Date	Aug 24 2024 12:00AM	Is the structure or development in the floodplain	No
Is the property in a local historic district?	No	Is the property located downtown?	No	Additional Unique Setbacks Apply	No
Watershed	WSIV PA CATAWBA/LAKE NORMAN				

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_Gary_McNeely_2/22/2024.jpg	02/22/2024 16:35	McNeely, Gary		Uploaded via CSS
FT Check List_v1.pdf	02/23/2024 11:42	McNeely, Gary	Available Online	
Saddlehorn Lot 21 AF_v1.pdf	02/23/2024 11:42	McNeely, Gary	Available Online	
SADDLEHORN LOT 21 SOIL_v1.doc	02/23/2024 11:42	McNeely, Gary	Available Online	
Saddlehorn Lot 21_v1.docx	02/23/2024 11:42	McNeely, Gary	Available Online	

Invoice No.	Fee	Fee Amount	Amount Paid
INV-00027266	Expedited Review New Pump System	$850.00	$850.00
	Iredell Zoning Permit Fee	$75.00	$75.00
	Iredell Zoning Tech Fee	$2.25	$2.25
	Total for Invoice INV-00027266	$927.25	$927.25
	Grand Total for Permit	**$927.25**	**$927.25**

PERMIT SNAPSHOT REPORT (OSWP-2024-47705)

Workflow Step / Action Name	Action Type	Start Date	End Date
Application Completeness Check v.1		02/23/2024 11:57	02/23/2024 11:58
Confirm application complete v.1	Generic Action		02/23/2024 11:58
Fees v.1		02/27/2024 11:49	02/27/2024 11:49
Fees Paid v.1	Generic Action		02/27/2024 11:49
Issue Invoice v.1	Generic Action		02/27/2024 11:49
Lot Readiness Verification v.1			
~~OSWP Septic Preliminary Site Visit v.1~~	Inspection		02/23/2024 11:58
OSWP Site Evaluation v.1	Inspection		
Zoning Review v.1		02/23/2024 12:47	02/27/2024 11:04
~~Floodplain Admin Overview v.1~~	Task		02/23/2024 12:47
Iredell County Zoning Approval v.1	Task	02/23/2024 12:47	02/27/2024 11:04
Issue Invoice v.1	Generic Action		02/23/2024 12:48
Fees Paid v.1	Generic Action		02/27/2024 11:04
Environment Health Inspections v.1			
OSWP Alarm Checked v.1	Inspection		
OSWP Drain Lines Checked v.1	Inspection		
OSWP Electrical Checked v.1	Inspection		
OSWP Floats Checked v.1	Inspection		
OSWP Maintenance Contract v.1	Inspection		
OSWP Pressure Head Checked v.1	Inspection		
OSWP Pressure Manifold Checked v.1	Inspection		
Issue Permit v.1			
Issue Invoice v.1	Generic Action		
Fees Paid v.1	Generic Action		
Issue Permit v.1	Generic Action		
Permit Completion Process v.1			
Authorization to Construct Permit v.1	Create Sub Permit		
Issue Authorization to Construct v.1	Generic Action		