BLDR 2023-18195

ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2023-16806

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

PIN # 4730-60-6141 ✓

APPLICANT / OWNER: Michael Athanas & Associates | APPLICANT ADDRESS: 2630 Statesville Blvd, Salisbury, NC 28147

SITE ADDRESS: 222 WINDING FOREST DR, TROUTMAN, NC 28166 ✓ | PHONE: 7043101832 | ALT. PHONE:

SITE DIRECTIONS: W NC 150 -> R Perth -> L Winding Forest -> lot on R | SAP CONTROLLED: YES ☑ NO ☐

SUBDIVISION: Winding Forest ✓ | SECTION: N/A | LOT #: 20 ✓ | LOT AREA: 0.935 | DESIGN FLOW: 480 | L.T.A.R.: 0.35

Septic Tank: 1000 (gal)	STB: 760	Date: 6/21/23	☑ New System ☐ Repair ☐ Expansion	System Type: III	☑ Residence	No. Bedrooms: 4	Water Supply: Community Well
Pump Tank: 1000 (gal)	PT: 363	Date: 6/8/23	System Description: 25% Reduction		☐ Business	No. Persons: 8	
Pump Make: Zoeller	Model: 151	Serial #: ZK23G13X	Repair System Description: Drip - 4265 ft2		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 5	Linear Ft.: 346	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space	
Trench Width: 36	Trench Bottom Depth (Low side): 30		Gravel Depth: 0	☐ GRAVITY ☑ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Follow design as specified by Michael Athanas. Do not exceed 36" trench bottom, do not pave, grade, drive, park, or bury utilities in drainfield area. Divert drainage from drainfield. Drawdown = 6.9" Keep Water Line 10' from any part of septic system.

INITIAL SITE SKETCH

See attached site plan and design by Michael Athanas & Assoc.

approved 2/28/23

AS BUILT SKETCH

TANKS & LINES SW 8/2/2023

DH, alarm, floats, electrical 3/7/24

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

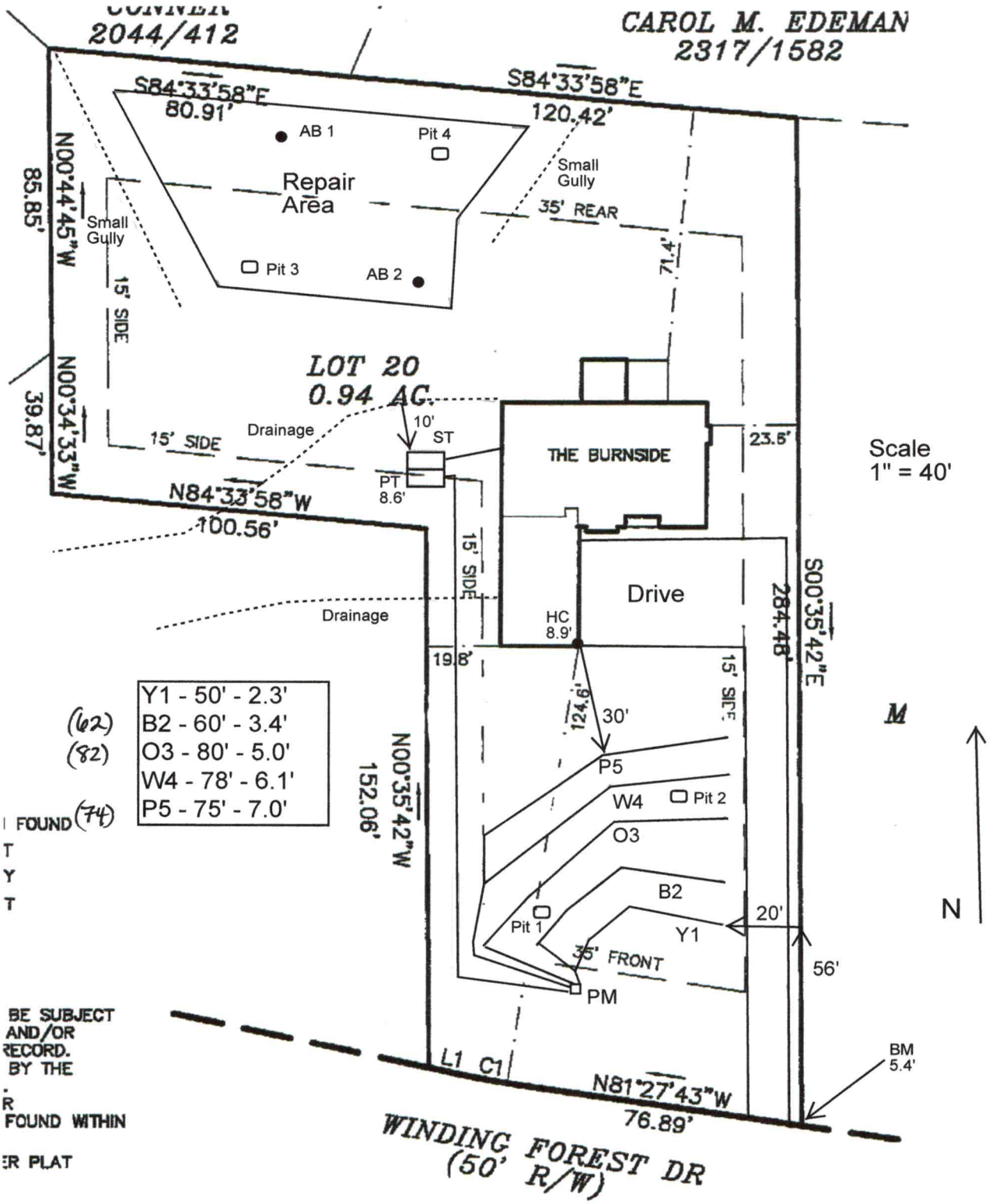
☐ IMPROVEMENT PERMIT with plat valid without expiration. ☑ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☑ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: _____ Date: _____ Installed By: Groundbreakers

IMPROVEMENT PERMIT by: D. Webb Date: 2/28/23 OPERATION PERMIT by: D. Webb Date: 3/7/24

AUTHORIZATION TO CONSTRUCT by: D. Webb Date: 2/28/23 Existing System Inspected By: _____ Date: _____

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



APPROVED FEB 2 8 2023

MA&A
SOIL & ENVIRONMENTAL CONSULTANTS

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556 Walden Trail
Weddington, NC 28173
(704) 576-3887
2/13/2023

Reference: Data Sheet for 222 Winding Forest Dr, Winding Forest Lot 20
House Footprint: See attached plan
Building Setbacks: 35' front/rear, 15' side
Water Source: Community Well
Number of Bedrooms/Daily Flow: 4/480 GPD
Proposed LTAR: 0.35 GPD/FT^2 (initial), 0.125 GPD/FT^2 (repair)
Proposed System Type: 25% Reduction
Proposed Repair System Type: Drip Dispersal
Distribution: Pressure Manifold
Flow per Tap: 1 @ 7.11 GPM, 1 @ 5.48 GPM, 1 @ 10.1 GPM
Tap Size and Material: 1 @ ½" SCH 40, 1 @ ½" SCH 80, 1 @ ¾" SCH 80
System Flow: 22.7 GPM
Dosing Volume: 150 gallons
Pump Run Time: 6.6 minutes
Elevation Head: 11.3'
Friction Head: 2.3'
Pressure Head: 2'
Total Dynamic Head: 15.6'
Supply Line Length: 175' of 2" PVC
Septic/Pump Tank Size: 1000/1000 gallons
Proposed Trench Bottom: 36"



Line	Design Length	Actual Length	Elevation
Yellow 1	50'	54'	2.3'
Blue 2	60' (62)	65'	3.4'
Orange 3	80' (82)	85'	5.0'
White 4	78'	79'	6.1'
Pink 5	75' (74)	76'	7.0'

Initial System: 343'
Repair System: 4265 FT^2
Benchmark: 5.4'
House Corner: 8.9'

Comments:

Taps:

½" SCH 40 – Y1, B2
½" SCH 80 – O3
¾" SCH 80 – W4, P5

- All utilities should be installed outside of the septic area. Failure to do so will result in the permit being revoked.
- A fence should be constructed and maintained around the septic area to keep vehicular traffic off the site. Failure to do so will result in the permit being revoked.

PROPERTY ID #: 4730606141__
COUNTY: _Iredell_____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Whitley Construction LLC_____ APPLICATION DATE_____
ADDRESS: PO Box 3395 Mooresville, NC 28117_____ DATE EVALUATED: __1/2023_____
PROPOSED FACILITY: __4 BRDM_____PROPOSED DESIGN FLOW (.1949): _480 GPD_____ PROPERTY SIZE: ___0.94 AC_____
LOCATION OF SITE: 222 Winding Forest, Winding Forest Lot 20_____ PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private X 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 12%	0-8	FILL		N/A	54"		N/A	PS 0.35
		8-15	R C SBK	FR SS SP SXP					
		15-54	R CL WSBK	FR SS SP SXP			Com SAP		
		54-58	VER SL SAP M	VFR SS SP SXP			PS		
PIT 2	LS 12%	0-10	FILL		N/A	27"		N/A	PS 0.35-0.4
		10-27	R CL WSBK	FR SS SP SXP			F-C SAP		
		27-60	VER LS SAP M	VFR SS SP SXP			PS		
PIT 3	LS 4%	0-8	Br CL WSBK	FR SS SP SXP	Few YB @ Horizon Change	60"	N/A	N/A	PS 0.25
		~~8-28~~ 33	R C SBK	FR SS SP SXP					
		~~28-60~~ 33-50	R CL WSBK	FR SS SP SXP					
		50-60	L-WSBK	N [illegible]					
PIT 4	LS 8%	0-26	RBr C ABK	FR SS SP SXP	CHR 2 @ 26"	26"	N/A	N/A	DRIP 0.125

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1029 FT^2	4265 FT^2
System Type(s)	25% Reduction	DRIP
Site LTAR	0.35	0.125

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

COMMENTS:_____
_____

SOIL/SITE EVALUATION

(Continuation Sheet)

PROPERTY ID #: 4730606141____
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	
AB 1	LS 6%	0-18	Br SCL WSBK	FR SS SP SXP	YB CHR 2 @ 45"	45"	N/A	N/A	PS 0.25
		18-45	R C ABK	FR SS SP SXP					
AB 2	LS 5%	0-3	FILL		Mn @ 30"	48"	N/A	N/A	PS 0.25
		3-8	Br CL WSBK	FR SS SP SXP					
		8-40	R C SBK	FR SS SP SXP					
		40-48	R CL WSBK	FR SS SP SXP					

COMMENTS: _____