ICHD - ENVIRONMENTAL HEALTH DIVISION

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

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

PERMIT : OSWP 2025-74179

PIN # 4711-33-0282

APPLICANT/OWNER: Michael Athanas + Associates APPLICANT ADDRESS: 556 Walden Trail Weddington, NC 28173

SITE ADDRESS: 145 Harbor Ridge Drive Statesville, NC 28677 ✓ PHONE: 704-507-6327 ALT. PHONE

SITE DIRECTIONS: Buffalo Shoals to Laurel Cove to Harbor Ridge Drive SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Harbor Watch ✓ SECTION: LOT # 120 ✓ LOT AREA: 1.77 DESIGN FLOW: 480 L.T.A.R.(Initial): .30 L.T.A.R (Repair): .30

Septic Tank 1000 (gal) STB Norweco Date 2092 STB.

Pump Tank (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 3 Linear Ft 400

Trench Width 36in *Max. Trench Depth(Initial) 30in *Max. Trench Depth(Repair) 30 Gravel Depth –

* Measured on the downhill side of the trench

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

System Description: Gravity - 25% Reduction

Repair System Description: UPPBD - 50% Reduction

Maintenance Agreement Required: ☐ YES ☒ NO

☒ GRAVITY ☐ PRESSURE

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

Usable Depth to LC (Initial): 48+

Usable Depth to LC (Repair): 48+ *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: * Purpose of this permit is to show the building addition.

* System installed on 4/30/2025

INITIAL SITE SKETCH

See attached site plan + 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.

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: Alan Hoke

IMPROVEMENT PERMIT by: Benjamin A. Batts Date: 5-2-2025 ✓ OPERATION PERMIT by: Bryant C White Date: 4-30-2025 ✓

AUTHORIZATION TO CONSTRUCT by: Benjamin A. Batts Date: 5-2-2025 ✓ Existing System Inspected by: Date:

Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
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? _____	

MA&A
SOIL & ENVIRONMENTAL CONSULTANTS

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556Walden Trail
Weddington, NC 28173
(704) 576-3887
9/5/2024

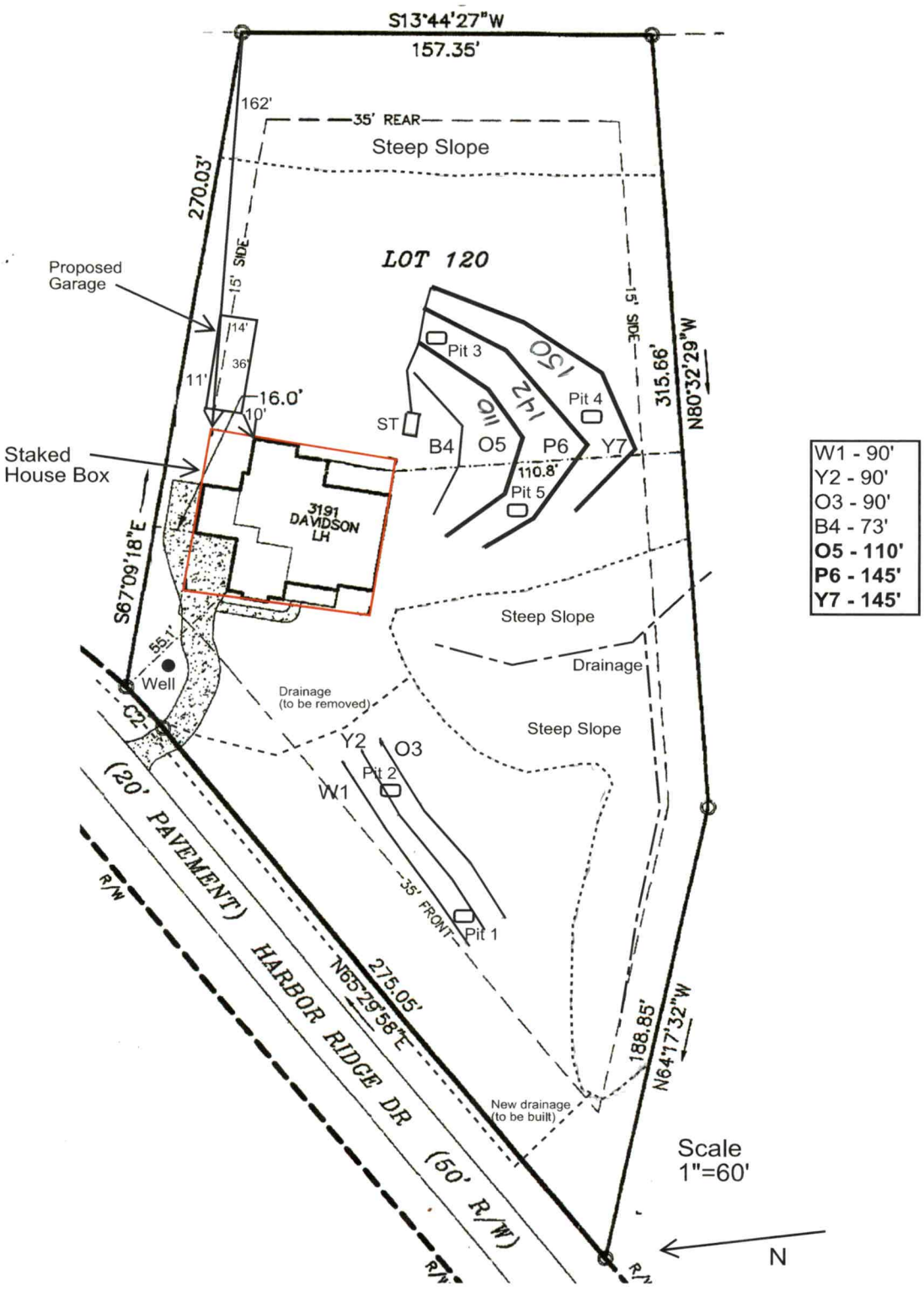
Reference: Data Sheet for 145 Harbor Ridge Dr, Harbor Watch Lot 120
House Footprint: 72' x 65'
Building Setbacks: 35' front/rear, 15' side
Water Source: Private Well
Number of Bedrooms/Daily Flow: 4/480 GPD
Proposed LTAR: 0.3 GPD/FT^2
Proposed System Type: 25% Reduction
Proposed Repair System Type: Vertical PPBPS
Distribution: Gravity – Distribution Box
Septic Tank Size: 1000 gallons
Proposed Trench Bottom: 30-36"



Line	Design Length	Actual Length
White 1		90'
Yellow 2		90'
Orange 3		90'
Blue 4		73'
Orange 5	**110'**	**118'**
Pink 6	**145'**	**166'**
Yellow 7	**145'**	**158'**

Initial System: 400' **Repair System:** 343'

Comments:
There is a current drainage pattern near the repair area. This will be filled and a new drainage pattern will be constructed across the front of the property that will tie into the natural drainage on the right side of the property.


S13°44'27"W
157.35'
162'
35' REAR
Steep Slope
270.03'
15' SIDE
LOT 120
Proposed Garage
14'
36'
11'
16.0'
10'
Staked House Box
3191 DAVIDSON LH
S67°09'18"E
55.1'
Well
C2
Pit 3
Pit 4
Pit 5
ST
B4
O5
P6
Y7
O11
Y2
110.8'
15' SIDE
315.66'
N80°32'29"W
Steep Slope
Drainage
Drainage (to be removed)
Steep Slope
Y2
O3
Pit 2
W1
35' FRONT
Pit 1
(20' PAVEMENT) HARBOR RIDGE DR (50' R/W)
R/W
N65°29'58"E
275.05'
188.85'
N64°17'32"W
New drainage (to be built)
R/W
Scale 1"=60'
N
W1 - 90'
Y2 - 90'
O3 - 90'
B4 - 73'
O5 - 110'
P6 - 145'
Y7 - 145'

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

OWNER: Greybrook Homes LLC DATE EVALUATED: 9/2024
ADDRESS:
PROPOSED FACILITY: 4 BDRM PROPOSED DESIGN FLOW (.0400): 480 GPD PROPERTY SIZE: 1.77 AC
LOCATION OF SITE: 145 Harbor Ridge Dr, Harbor Watch Lot 120 PROPERTY RECORDED:
WATER SUPPLY: Public X Single Family Well Shared Well Spring Other WATER SUPPLY SETBACK:
EVALUATION METHOD: Auger Boring X Pit Cut TYPE OF WASTEWATER: X 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	OTHER PROFILE FACTORS .0505 SOIL DEPTH	OTHER PROFILE FACTORS .0506 SAPRO CLASS	OTHER PROFILE FACTORS .0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0503 SLOPE CORRECTION
1	LS 8%	0-8	RBr CL WSBK	FR SS SP SXP	N/A	60"	N/A	N/A	S 0.3	3"
		8-36	R C SBK	FR SS SP SXP						
		36-60	R CL WSBK	FR SS SP SXP						
2	LS 8%	0-8	Br CL WSBK	FR SS SP SXP	N/A	62"	N/A	N/A	S 0.3	3"
		8-46	R C SBK	FR SS SP SXP						
		46-62	R CL WSBK	FR SS SP SXP						
3	LS 6%	0-5	Br CL WSBK	FR SS SP SXP	N/A	63"	N/A	N/A	S 0.3	2"
		5-29	R C SBK	FR SS SP SXP						
		29-63	R CL WSBK	FR SS SP SXP						
4	LS 6%	0-4	Br SCL WSBK	FR SS SP SXP	N/A	60"	F-C SAP	N/A	S 0.3	2"
		4-25	R C SBK	FR SS SP SXP						
		25-60	R CL WSBK	FR SS SP SXP						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)	1200 FT^2	686 FT^2
System Type(s)	25% Reduction	VPPBPS
Site LTAR	0.3	0.3
Maximum Trench Depth	36"	36"

SITE CLASSIFICATION (.0509): S
EVALUATED BY: MA&A
OTHER(S) PRESENT:

Comments:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

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

PROPERTY ID #: 4711330282
DATE OF EVALUATION:
COUNTY: IREDELL

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	OTHER PROFILE FACTORS .0506 SOIL DEPTH	OTHER PROFILE FACTORS .0507 SAPRO CLASS	OTHER PROFILE FACTORS .0508 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0503 SLOPE CORRECTION
PIT 5	LS 8%	0-5	Br CL WSBK	FR SS SP SXP	N/A	44"		N/A	S 0.3	3"
		5-17	R C SBK	FR SS SP SXP						
		17-44	R CL WSBK	FR SS SP SXP			F-C SAP S			
		44-60	VER L SAP	VFR SS SP SXP						

COMMENTS: