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 - 2024 - 45758

PIN # 4832 -- 67 -- 4713

APPLICANT/OWNER: CLAY B. LUNSFORD

APPLICANT ADDRESS: P.O. BOX 211, UNION GROVE, N.C. 28689

SITE ADDRESS: 295 DOWELL ROAD, DLIN, N.C. 28660

PHONE: 704-500-4436

ALT. PHONE —

SITE DIRECTIONS: (N) ON 77, (L) ON 901, (L) ON MYERS MILL, (L) ON DOWELL, LOT ON (R)

SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: —

SECTION: —

LOT # TRACT 1

LOT AREA: 1.131AC

DESIGN FLOW: 240 GPD

L.T.A.R.(Initial): 0.25

L.T.A.R (Repair): 0.225

Septic Tank	1000	(gal)	STB 854	Date —	☑ New System	☐ Repair	☐ Expansion	System Type: I II ☑III IV V VI	☑ Residence	No. Bedrooms 2	Water Supply
Pump Tank	—	(gal)	PT —	Date —	System Description: 25% REDUCTION				☐ Business	No. Persons 4	☑ Private
Pump Make	—	Model —		Serial # —	Repair System Description: 25% REDUCTION				☐ Other	No. Employees —	☐ Public
# Nitrification Fields	1	# Lines	2	Linear Ft 241FT	Maintenance Agreement Required:	☐ YES	☑ NO		☐ Slab	☑ Crawl Space	☐ Community
Trench Width	36IN	*Max. Trench Depth(Initial)	30IN	*Max. Trench Depth(Repair) 34IN	Gravel Depth —	☑ GRAVITY	☐ PRESSURE		☐ Basement w/plumbing	☐ Basement w/o plumbing	

* Measured on the downhill side of the trench

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

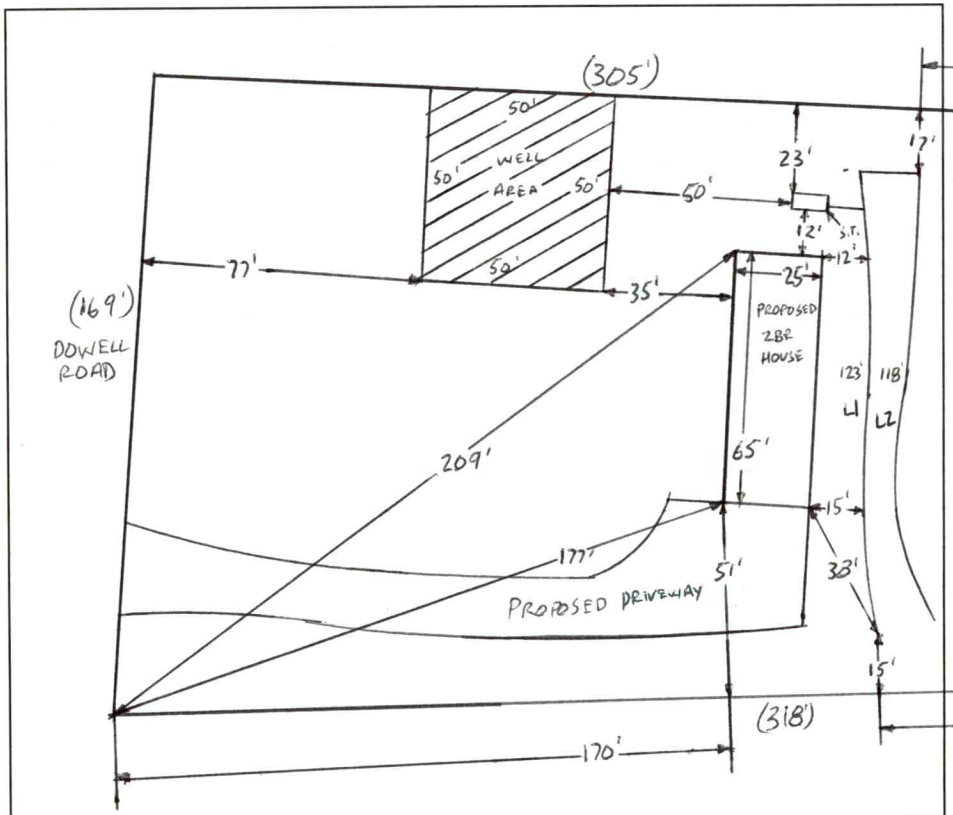
Usable Depth to LC (Initial): 44 IN

Usable Depth to LC (Repair): 43 IN *Limiting Condition*

Comments / Conditions: INSTALL ON CONTOUR, INSTALL ON 9FT CENTERS, UTILIZE SERIAL DISTRIBUTION, DO NOT EXCEED A 36 IN MAX TRENCH DEPTH ON HIGH SIDE OF TRENCH, DO NOT SHALLOW UP

POSITIVE DRAINAGE FOR LOW AREA MUST BE CREATED FOR LOW AREA PRIOR TO O.P.

INITIAL SITE SKETCH



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.

1 IN = 50 FT

S.T. = SEPTIC TANK

As Drawn

see modified lengths

L1) 119'

L2) 122'

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: ONLINE SIGNATURE Date: — Installed by: A1 Backhoe

IMPROVEMENT PERMIT by: Bryant C. White Date: 2-28-2024 OPERATION PERMIT by: Sarah Williams Date: 4/16/24

AUTHORIZATION TO CONSTRUCT by: Bryant C. White Date: 3-4-2024 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? _____	

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

PROPERTY ID #: 4832-67-4596
COUNTY: IREDELL

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

(Complete all fields in full)

OWNER: CLAY B. LUNSFORD DATE EVALUATED: 2-14-2024
ADDRESS: P.O BOX 211, UNION GROVE, N.C. 28689
PROPOSED FACILITY: 2BR PROPOSED DESIGN FLOW (.0400): 240 GPD PROPERTY SIZE: 1.131 AC
LOCATION OF SITE: 295 DOWELL ROAD, OLIN, N.C. 28660 PROPERTY RECORDED: YES
WATER SUPPLY: ☒ Public ☑ Single Family Well ☐ Shared Well ☐ Spring ☐ Other _____ WATER SUPPLY SETBACK: 50FT
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*	.0502(d) SLOPE CORRECTION
1	FOOT 10%	0-6	FILL MIXED	CLEARING	SAP INC THRU OUT Y/B MOTS 10"-24"	56"+	NA	NA	PS .25 INSTALL @ 36"	4"
		6-32	C, ST ABK	FI, S, P, SEXP						
		32-56	CL, WABK	FR, SS, SP, SEXP						
2	~~FOOT~~ TOE 3% NOT WELL DRAINED ALMOST	0-12	FILL MIXED	CLEARING	Y/B MOTS 12"-36" 2.5Y 7/4 @ 24"	55"+	NA	NA	PS .225 INSTALL @ 36" W/ DRAINAGE PLAN	1"
		12-37	C, ST ABK	FI, S, P, SEXP						
		37-55"	CL, WABK	FR, SS, SP, SEXP						
		DEPRESSION								
3	TOE 3%	0-9	FILL MIXED	CLEARING	Y/B MOTS 9"-18" 2.5Y 6/3 @ 12"	57"+	NA	NA	PS .25 INSTALL @ 36"	1"
		9-40	C, ST ABK	FI, S, P, SEXP						
		40-57	CL, WABK	FR, SS, SP, SEXP						
4	FOOT 15%	0-9	FILL MIXED	CLEARING	FEW Y/B MOTS 6"-14" SAP INC THRU OUT	56"+	NA	NA	PS .225 INSTALL @ 36"	0"
		9-36	C, ST ABK	FI, S, P, SEXP						
		36-56	CL, WABK	FR, SS, SP, SEXP						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)	PS	PS
System Type(s)	25%	25%
Site LTAR	0.25	0.225
Maximum Trench Depth	30 IN	34 IN

SITE CLASSIFICATION (.0509): PS
EVALUATED BY: Bryant C. White
OTHER(S) PRESENT: _____

Comments: _____

Revised January 2024
Form SSE-24.2

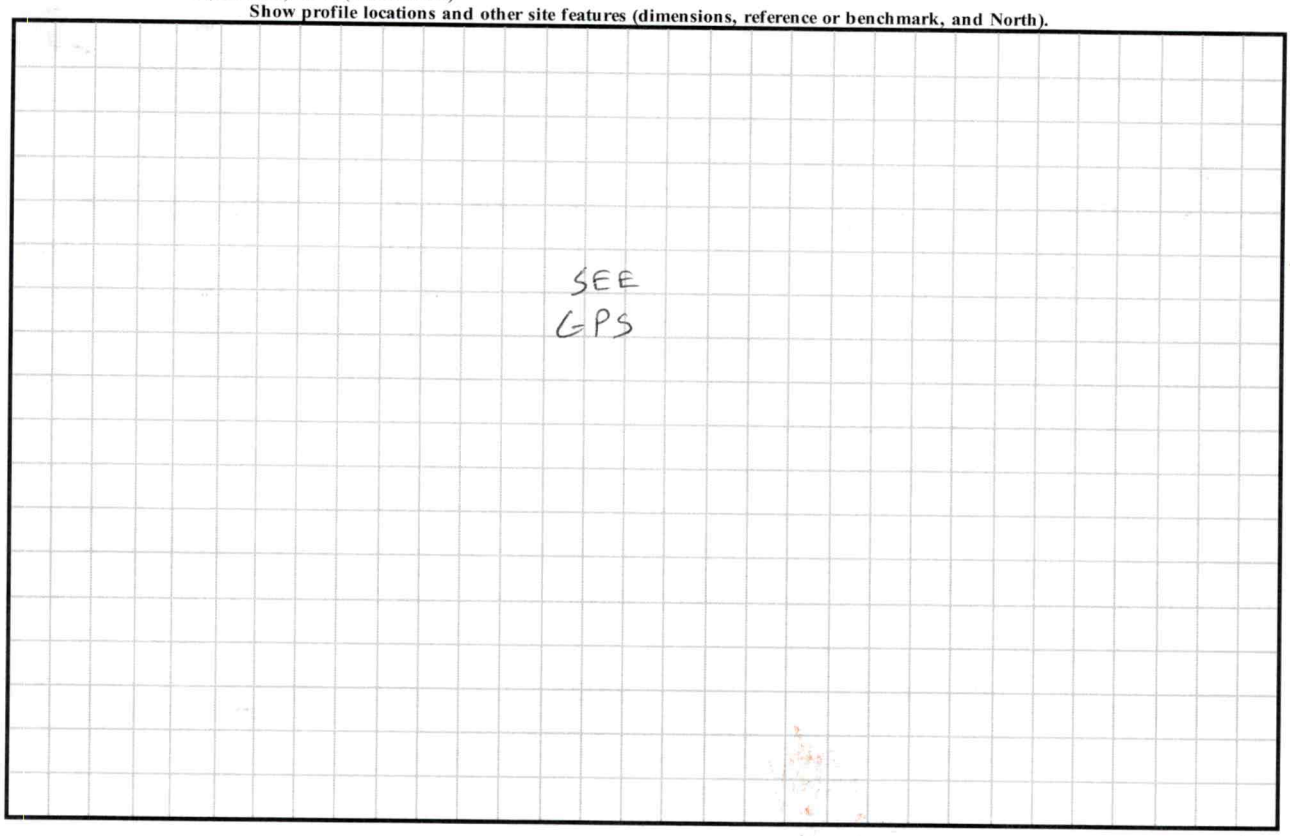
LEGEND

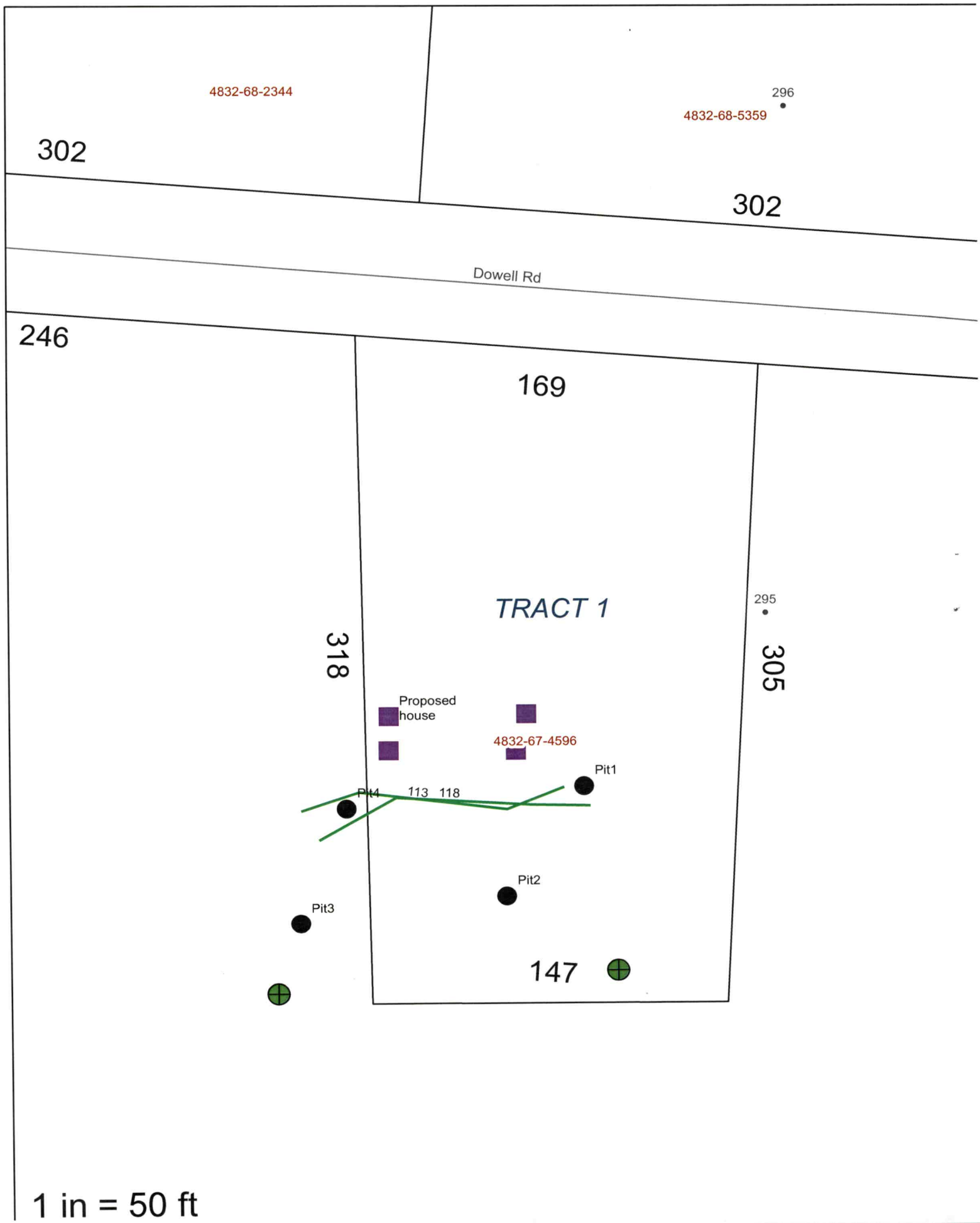
LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 -0.6	MOIST	WET	SG (Single grain)
CV (Convex Slope)		LS (Loamy sand)		0.5 -0.7		Lo (Loose)	NS (Non-sticky)	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).




4832-68-2344
296
4832-68-5359
302
302
Dowell Rd
246
169
TRACT 1
295
318
305
Proposed house
4832-67-4596
Pit1
Pit4
113
118
Pit2
Pit3
147

1 in = 50 ft

PERMIT SNAPSHOT REPORT OSWP-2024-45758 FOR IREDELL COUNTY

Permit Type	Environmental Health OSWP	**Project:**		**App Date:**	01/26/2024
Work Class:	EH Septic Permit	**District:**	Iredell County	**Exp Date:**	NOT AVAILABLE
Status:	In Progress	**Square Feet:**	0.00	**Completed:**	NOT COMPLETED
Valuation:	$0.00	**Assigned To:**	White, Bryant	**Approval Expire Date:**	
Description:	LOT MUST BE SPLIT OUT BEFORE PERMIT IS ISSUED NEED IP/AC for 295 Dowell Rd prelim add per RH email 1-23				

Parcel: 4832674596.000 Main	**Address:** 295 Dowell Rd Olin, NC 28660 Main	**Zone:** RU-R(Rural Residential District)

Property Owner	Applicant/Authorized Agent
Clay B Lunsford	Clay B Lunsford
P. O. Box 211	P. O. Box 211
Union Grove, NC 28689	Union Grove, NC 28689
Mobile: (704) 500-4436	Mobile: (704) 500-4436

Permit Custom Fields

How is your site plan being submitted	Survey Plat	Septic Application/Permit Type	Improvement Permit	Does the site contain any jurisdictional wetlands	No
Non-domestic Sewage Generated	No	Other Public Agency	No	All proposed structure dimensions	14x60
What are the proposed structures	New Single-Family Residence - Stick Built	Type of New Single-Family Residence	Stick Built	Maximum Number of Bedrooms	2
If other Addition/Structure, please explain		Number of Occupants	2	Foundation Type	Crawl Space Foundation
Residential/Business/Other	Residential	Water Supply	New Well	Desired Septic System Type	Conventional (most common)
Permit type(s)	Authorization to Construct, Improvement Permit with Plat, Improvement Permit with Site Plan	Has this project been approved by TRC	No	Lot Acreage	1.131
Front Setback	35	Back Setback	35	Left Setback	15
Right Setback	15	Zoning Permit Issued Date	Jan 29 2024 12:00AM	Zoning Permit Expiration Date	Jul 27 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
Zoning Notes/Addendums	Per Jake lot has to be split out.	Additional Unique Setbacks Apply	No	Watershed	NOT IN A WATERSHED

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_Clay_Lunsford_1/26/2024.jpg	01/26/2024 11:16	Lunsford, Clay		Uploaded via CSS
Scan_20240126_v1.pdf	01/26/2024 13:08	Williams, Deborah	Available Online	Site Plan
Scan_20240126 (4).pdf	01/26/2024 13:49	Williams, Deborah	Available Online	Authorization form
Scan_20240201.pdf	02/01/2024 13:44	Williams, Deborah	Available Online	floor plans

Inspection Number	Status	Inspection Type	Request Date	Scheduled Start Date	Scheduled End Date	Actual Start Date	Actual End Date
2024-185742	Passed - Permit	OSWP Septic/Well Preliminary Site Visit	02/01/2024	02/01/2024 0:00	02/01/2024 0:00	02/01/2024 15:27	02/01/2024 15:27

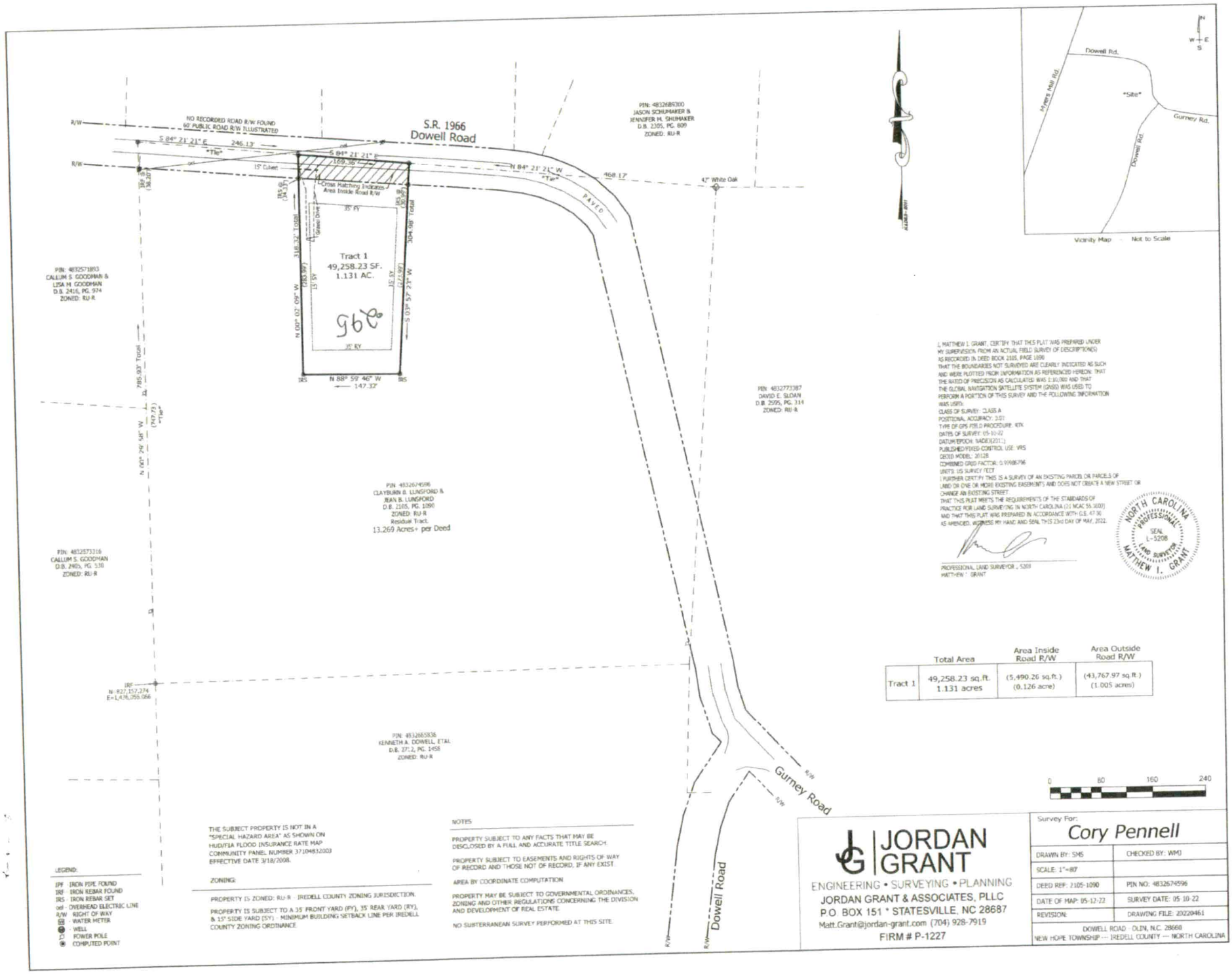
Inspectors: Moore, Bradley (Primary)

PERMIT SNAPSHOT REPORT (OSWP-2024-45758)

Checklist Item	Description	Passed	Comments
General Comments	Checklist item used to track general comments, not specific to any other checklist item	No	

Invoice No.	Fee		Fee Amount	Amount Paid
INV-00026049	New Gravity System		$500.00	$500.00
	Iredell Zoning Permit Fee		$75.00	$75.00
	Iredell Zoning Tech Fee		$2.25	$2.25
		Total for Invoice INV-00026049	$577.25	$577.25
		Grand Total for Permit	**$577.25**	**$577.25**

Workflow Step / Action Name	Action Type	Start Date	End Date
Application Completeness Check v.1		01/26/2024 13:06	01/26/2024 13:06
Confirm application complete v.1	Generic Action		01/26/2024 13:06
Fees v.1		01/26/2024 14:06	01/30/2024 8:30
Fees Paid v.1	Generic Action		01/30/2024 8:30
Issue Invoice v.1	Generic Action		01/26/2024 14:06
Zoning Review v.1		01/26/2024 13:07	01/30/2024 9:57
~~Floodplain Admin Overview v.1~~	Task		01/26/2024 13:07
Iredell County Zoning Approval v.1	Task	01/26/2024 13:07	01/30/2024 9:57
Issue Invoice v.1	Generic Action		01/26/2024 13:08
Fees Paid v.1	Generic Action		01/30/2024 8:30
Lot Readiness Verification v.1		02/01/2024 15:27	
OSWP Septic Preliminary Site Visit v.1	Inspection	02/01/2024 15:27	02/01/2024 15:27
OSWP Site Evaluation v.1	Inspection		
Issue Improvement 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		



I, MATTHEW I. GRANT, CERTIFY THAT THIS PLAT WAS PREPARED UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY OF DESCRIPTION(S) AS RECORDED IN DEED BOOK 2105, PAGE 1090
THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS SUCH AND WERE PLOTTED FROM INFORMATION AS REFERENCED HEREON; THAT THE RATIO OF PRECISION AS CALCULATED WAS 1:10,000 AND THAT THE GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) WAS USED TO PERFORM A PORTION OF THIS SURVEY AND THE FOLLOWING INFORMATION WAS USED:
CLASS OF SURVEY: CLASS A
POSITIONAL ACCURACY: 0.07
TYPE OF GPS FIELD PROCEDURE: RTK
DATES OF SURVEY: 05-10-22
DATUM/EPOCH: NAD83(2011)
PUBLISHED/FIXED-CONTROL USE: VRS
GEOID MODEL: 2012B
COMBINED GRID FACTOR: 0.99986796
UNITS: US SURVEY FEET
I FURTHER CERTIFY THIS IS A SURVEY OF AN EXISTING PARCEL OR PARCELS OF LAND OR ONE OR MORE EXISTING EASEMENTS AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.
THAT THIS PLAT MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600) AND THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY HAND AND SEAL THIS 23rd DAY OF MAY, 2022.

PROFESSIONAL LAND SURVEYOR L-5208
MATTHEW I. GRANT

NORTH CAROLINA PROFESSIONAL SEAL L-5208 LAND SURVEYOR MATTHEW I. GRANT

	Total Area	Area Inside Road R/W	Area Outside Road R/W
Tract 1	49,258.23 sq.ft. 1.131 acres	(5,490.26 sq.ft.) (0.126 acre)	(43,767.97 sq.ft.) (1.005 acres)

LEGEND:
IPF - IRON PIPE FOUND
IRF - IRON REBAR FOUND
IRS - IRON REBAR SET
ovd - OVERHEAD ELECTRIC LINE
R/W - RIGHT OF WAY
WM - WATER METER
W - WELL
PP - POWER POLE
CP - COMPUTED POINT

THE SUBJECT PROPERTY IS NOT IN A "SPECIAL HAZARD AREA" AS SHOWN ON HUD/FIA FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 3710483200J EFFECTIVE DATE 3/18/2008.

ZONING:

PROPERTY IS ZONED: RU-R - IREDELL COUNTY ZONING JURISDICTION.

PROPERTY IS SUBJECT TO A 35' FRONT YARD (FY), 35' REAR YARD (RY), & 15' SIDE YARD (SY) - MINIMUM BUILDING SETBACK LINE PER IREDELL COUNTY ZONING ORDINANCE.

NOTES

PROPERTY SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.

PROPERTY SUBJECT TO EASEMENTS AND RIGHTS OF WAY OF RECORD AND THOSE NOT OF RECORD, IF ANY EXIST.

AREA BY COORDINATE COMPUTATION.

PROPERTY MAY BE SUBJECT TO GOVERNMENTAL ORDINANCES, ZONING AND OTHER REGULATIONS CONCERNING THE DIVISION AND DEVELOPMENT OF REAL ESTATE.

NO SUBTERRANEAN SURVEY PERFORMED AT THIS SITE.

JORDAN GRANT
ENGINEERING • SURVEYING • PLANNING
JORDAN GRANT & ASSOCIATES, PLLC
P.O. BOX 151 * STATESVILLE, NC 28687
Matt.Grant@jordan-grant.com (704) 928-7919
FIRM # P-1227

Survey For:
Cory Pennell

DRAWN BY: SMS	CHECKED BY: WMJ
SCALE: 1"=80'	
DEED REF: 2105-1090	PIN NO: 4832674596
DATE OF MAP: 05-12-22	SURVEY DATE: 05 10-22
REVISION:	DRAWING FILE: 20220461

DOWELL ROAD - OLIN, N.C. 28660
NEW HOPE TOWNSHIP --- IREDELL COUNTY --- NORTH CAROLINA