BLDR-2023-28908

ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2023-28090

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

PIN # 4726-02-6752

APPLICANT / OWNER: Billy Self

APPLICANT ADDRESS: 324 Harrill St Apt 4 Statesville NC 28677

SITE ADDRESS: 106 E DUNDEE CT, STATESVILLE, NC 28625

PHONE: 704-903-3202

ALT. PHONE:

SITE DIRECTIONS: N NC 115 -> L Scotts Creek -> L Celtic Ridge -> L E Dundee -> lot on corner

SAP CONTROLLED: YES ☐ NO ☑

SUBDIVISION: Celtic Ridge

SECTION: N/A LOT #: 15 LOT AREA: 0.459 DESIGN FLOW: 360 L.T.A.R.: 0.3

Septic Tank: 1000 (gal)	STB: 760	Date:	☑ New System ☐ Repair ☐ Expansion	System Type: III	☑ Residence	No. Bedrooms: 3	Water Supply: Other Public Water
Pump Tank: (gal)	PT:	Date:	System Description: 25% Reduction		☐ Business	No. Persons: 6	
Pump Make:	Model:	Serial #:	Repair System Description: LPPPBPS		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 4	Linear Ft.: 304	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space	
Trench Width: 36	Trench Bottom Depth (Low side): 36		Gravel Depth: 0	☑ 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:

Ashley Rollans Soil & Forestry Services of Carolinas

LSS# 1231

AOWE 10027E

AS BUILT SKETCH

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: billion self Date:

Installed By: Williams Excavating

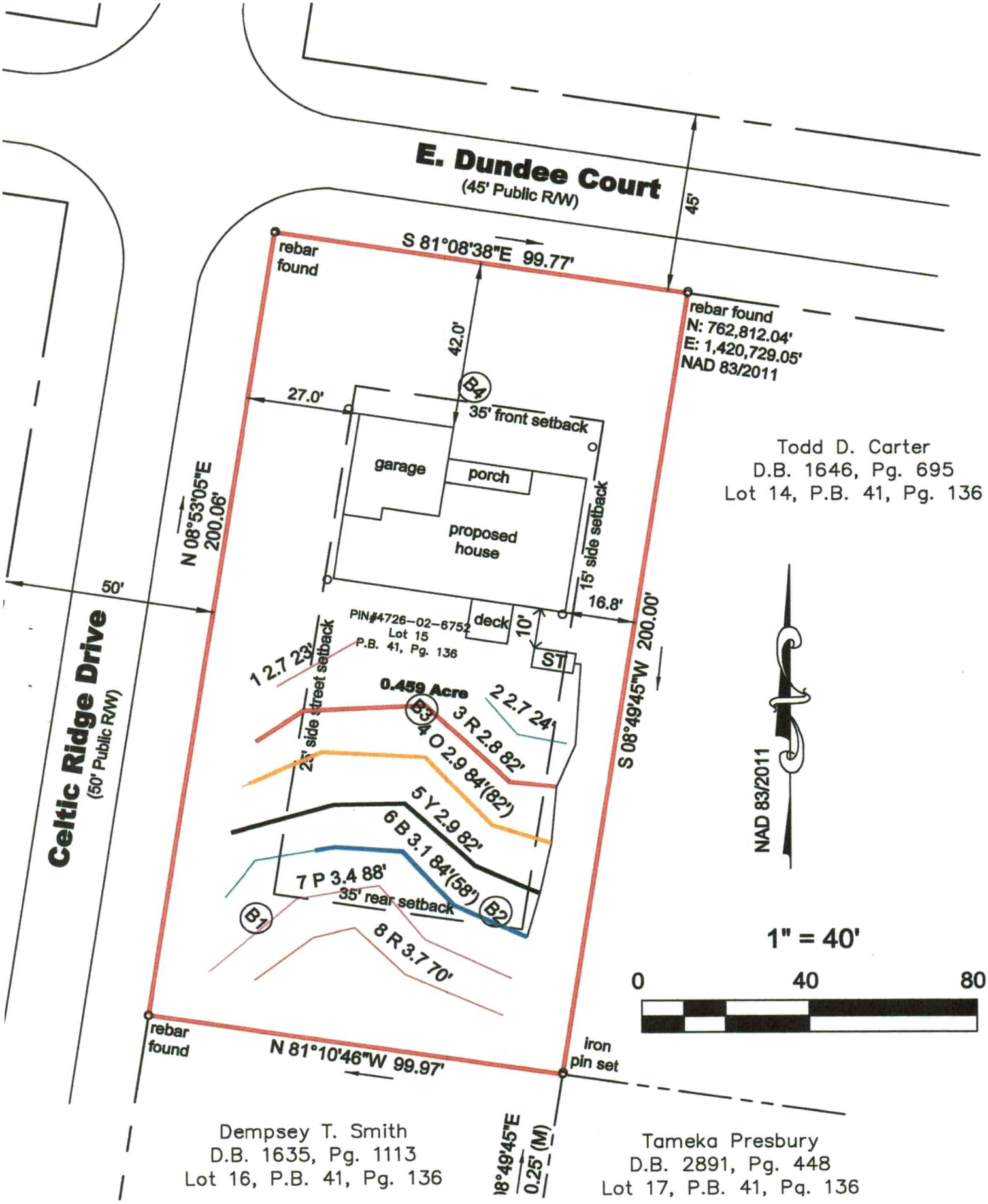
IMPROVEMENT PERMIT by: D. Weberg Date: 6/21/23

OPERATION PERMIT by: Matt Wier Date: 10/4/23

AUTHORIZATION TO CONSTRUCT by: D. Weberg Date: 6/21/23

Existing System Inspected By: Date:

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


E. Dundee Court
(45' Public R/W)
45'
S 81°08'38"E 99.77'
rebar found
rebar found
N: 762,812.04'
E: 1,420,729.05'
NAD 83/2011
42.0'
B4
27.0'
35' front setback
garage
porch
proposed house
15' side setback
16.8'
deck
10'
S1
PIN#4726-02-6752
Lot 15
P.B. 41, Pg. 136
Todd D. Carter
D.B. 1646, Pg. 695
Lot 14, P.B. 41, Pg. 136
N 08°53'05"E
200.06'
50'
Celtic Ridge Drive
(50' Public R/W)
12.7 22'
side street setback
0.459 Acre
B3
2 2.7 24'
3 R 2.8 82'
4 O 2.9 84'(82")
5 Y 2.9 82'
6 B 3.1 84'(58')
7 P 3.4 88'
35' rear setback
B1
B2
8 R 3.7 70'
S 08°49'45"W 200.00'
NAD 83/2011
1" = 40'
0
40
80
rebar found
N 81°10'46"W 99.97'
iron pin set
Dempsey T. Smith
D.B. 1635, Pg. 1113
Lot 16, P.B. 41, Pg. 136
0.25' (M)
Tameka Presbury
D.B. 2891, Pg. 448
Lot 17, P.B. 41, Pg. 136

Sheet 1 of 1
PROPERTY ID #: 4726026752
COUNTY: Iredell

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

OWNER: Anthony Waugh
ADDRESS: 137 Andy Ln Stony Point Nc 28678
PROPOSED FACILITY: 3 BR Residence (Crawl Space)
LOCATION OF SITE: 106 E Dundee Court Statesville NC 28625

APPLICATION DATE:
DATE EVALUATED: 5/23/2023
PROPERTY SIZE: 0.459
PROPERTY RECORDED: YES

WATER SUPPLY: ☐ Private ☐ Well ☐ Spring ☑ Other county 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/3%	0-3	BRCLWFSBK	FRSSSPSEXP	FEW SAP	48"			PS 0.3
		3-33	RCWMSBK/ABK	FRSSSPSEXP					
		33-48	RCLWFSBK	FRSSSPSEXP					
2	L/2%	0-7	BSLGR	FRSSSPSEXP	FEW SAP	48"			PS 0.3
		7-13	RBSCLWFSBK	FRSSSPSEXP					
		13-40	RCWMSBK/ABK	FRSSSPSEXP					
		40-48	RCLWFSBK	FRSSSPSEXP					
3	L/2%	0-3	BSLGR	FRSSSPSEXP	FEW SAP	48"			PS 0.3
		3-35	RCWMSBK/ABK	FRSSSPSEXP					
		35-48	RCLWFSBK	FRSSSPSEXP					
4	L/2%	0-6	RBSCLWFSBK	FRSSSPSEXP	FEW SAP	48"			PS 0.3
		6-44	RCWMSBK	FRSSP					
		44-48	RCLWMSBK	FRSSSP					

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

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

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

COMMENTS:

County: Iredell

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

PIN/Lot Identifier: 4726026752

Issued To: Anthony Waugh

Property Location: 106 E. Dundee ct Statesville NC 28625

Subdivision: celtic ridge Lot #: 15 Block: _____ Section: _____

LSS Report Provided: Yes ☒ No ☐

If yes, name and license number of LSS: Samuel Ashley Rollins # 1231

New ☒ Repair ☐ Expansion ☐ System Relocation ☐

Proposed Structure: Single Family

Proposed Wastewater System Type: 25% reduction gravity (Initial) PPBPS low Pressure (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: 360 GPD Proposed LTAR (Initial): 0.3 Proposed LTAR (Repair): 0.3

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

Number of bedrooms: 3 Number of Occupants: 6 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 Rollins

Licensed Soil Scientist Signature: Samuel A Rollins Date: 6/12/23

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

See attached site sketch

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 6/13/23 (Date) by online (Initials)

Permit Number: OSWP-2023-28090

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: D. Wieberg Date of Issuance: 6/21/23

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: 6/21/28

See attached site sketch

County: Iredell

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

PIN/Lot Identifier: 4726026752

Issued To: Anthony Waugh

Property Location: 106 E. Dundee Ct Statesville NC 28625

AOWE/PE Plans/Evaluations Provided: Yes ☒ No ☐ If yes, name and license number of AOWE/PE: Samuel Ashley Rollins #10027E

Facility Type: Single Family 3 Br

☒ New ☐ Expansion ☐ Repair System Relocation ☐

Basement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☐ No

Type of Wastewater System** 25% reduction Gravity (Initial) PPBPS low Presure (Repair)

Design Daily Flow: 360 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: 304 feet Trench/Bed Spacing: 9 feet on center

Drainfield square footage: 912 Trench/Bed Width: 36 inches LTAR: 0.3 gpd/ft²

Soil Cover: 6min inches Slope Adjusted Maximum Trench/Bed Depth: 36 inches max

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: 6/12/23

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

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 6/13/23 (Date) by online (Initials)

Permit Number: OSWP 2023-28090

G.S. 130A-335(a6) states the following: *'If a local health department fails to act on an application for a construction authorization submitted pursuant to subsection (a5) of the section within 10 business days of receipt of a complete application, the local health department shall issue the construction authorization.'*

In accordance with G.S. 130A-335(a5) the construction authorization 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 AOWE/PE and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the AOWE/PE and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: D. Weberg Date of Issuance: 6/21/23

This Construction Authorization is issued pursuant to G.S. 130A-335(a2), (a5), and (a6) using the signed and sealed plans or evaluations attached here. This Construction Authorization 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 Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the 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. Final landscaping shall be constructed to divert water and establish vegetative cover.

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 plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: 6/21/28

See attached site sketch

106 E. Dundee Court- Lot 15 *(See Attached Design)*

The septic layout for this lot (9' centers) yielded a total of 537 linear feet of line. The primary system is proposed as 304 linear feet of Accepted (25% Reduction) drainfield with gravity distribution. Trench depth is specified at 36 inches maximum. The repair system is proposed as 200 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth is specified at 36 inches maximum. There is 233 linear feet of repair available. **House pad should be elevated and crawl space plumbing must be kept shallow to achieve gravity. Otherwise the system may require a pump.**

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 Date

Print Name TONY WAUGH

Signature Tony Waugh 6/13/23

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 the site may nullify this design for 106 E. Dundee Court, Statesville NC 28625. 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

Project#: 23-0063
June 12th, 2023

Anthony Waugh
Attn: *Billy Self*
Email: wbself1@gmail.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence at 106 E. Dundee Court, 0.459 ac Parcel, PIN# 4726026752, Statesville, NC 28625.

Mr. Waugh:

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 submittal to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was partially cleared/graded for the house pad and open field. Topography within the evaluated area was gentle slope near the house site and proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Jordan-Grant Surveying. The surveyor provided an Autocad File of a survey with house envelopes as a basemap. The proposed septic layout was located via GPS & tape measures and used to produce the attached *Site Plan*. The house envelope was located via Survey by Jordan Land Surveying. Auger borings were located via GPS.

Methodology

We evaluated soil areas through the use of auger borings. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with four auger locations on the property flagged and located via tape measure. Three of the four auger locations 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. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by GPS and tape measures. Detailed system & repair information is summarized in the following paragraph for this Lot.

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for an Accepted Septic System with gravity dist. for a 3 bedroom single family residence at 106 E. Dundee Court Statesville 28625, Iredell County, NC. PIN#: (4726026752)

Contents: **Page**

Information for the Installer---------- 1

Design Information
- Design Specifications---------- 2-3
- Layout Specifications---------- 4

Site Plan/System Plan---------- 5

Calculations---------- 6

Profile Descriptions---------- 7

Application---------- Online

IP Form---------- 10

AC Form---------- 11

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

June 12, 2023
Project #: 23-0063
Design By: Soil & Forestry Services of the Carolinas, PA

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 25% reduction (Accepted) installation.
- Repair is specified as a PPBPS installation w/low pressure distribution.

GRAVITY ACCEPTED SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant: Anthony Waugh

Address: 137 Andy Lane
Stony Point, NC 28678

Phone: 704.903.3202

County: Iredell

Location: 106 E. Dundee Court
Statesville, NC 28625

Source of Wastewater Flow: 3 Bedroom Single Family Residence

Estimated Gallons Per Day Flow: 360

System Flow: N/A

Design Specifications

Drainfield Size: 304

Loading Rate (gpd/ft.^{2}): 0.3

Depth of Gravel in Trench: N/A

Gravel Size: N/A

Max.Trench Depth : 36 in. Repair Trench Bottom 36 in.

Trench Width: 36 in.

Septic Tank Size: 1000

Estimated Supply Line Length: 36

Supply Line Diameter: 4 in. SCH 40 PVC

Supply Line Volume: 23.51

Dosing Volume: N/A

Supply Manifold: N/A

Supply Manifold Length: N/A

Supply Manifold Volume: N/A

Recommended Float Controls: N/A

Recommended Control Panel: N/A

Pressure Head: N/A

Friction Head: N/A

Elevation Head: N/A

Total Dynamic Head: N/A

Threaded Union: N/A

Gate Valves: N/A

Check Valves: N/A

Anti-Siphon Hole: N/A

Additional Comments: Soil suitability was performed by Soil & Forestry Services of the Carolinas, PA

106 E. Dundee Court

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	912
TOTAL LATERAL LENGTH:	304
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	300
SUPPLY LINE LENGTH:	36
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000

Layout Specifications -106 E. Dundee Court

Project #: 23-0063

LAYOUT FOR 3 BEDROOM HOME

June 12, 2023

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	PINK			2.70		23	23
2	BLUE			2.70		24	24
3	***RED***			***2.80***		***82***	***82***
4	***ORANGE***			***2.90***		***84***	***82***
5	***YELLOW***			***2.90***		***82***	***82***
6	***BLUE***			***3.10***		***84***	***58***
7	PINK			3.40		88	88
8	RED			3.70		70	70
					Total	537	509

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	MAX TRENCH DEPTH
**** System***	***304***	***0.300***	***ACCEPT.***	***0.300***	***25% RED***	***GRAVITY***	36"
Repair	233	0.300	MOD CONV	0.300	PPBPS	LOW PRESSURE	36"

Notes: **All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**Nitrification lines were located by GPS and tape measure.

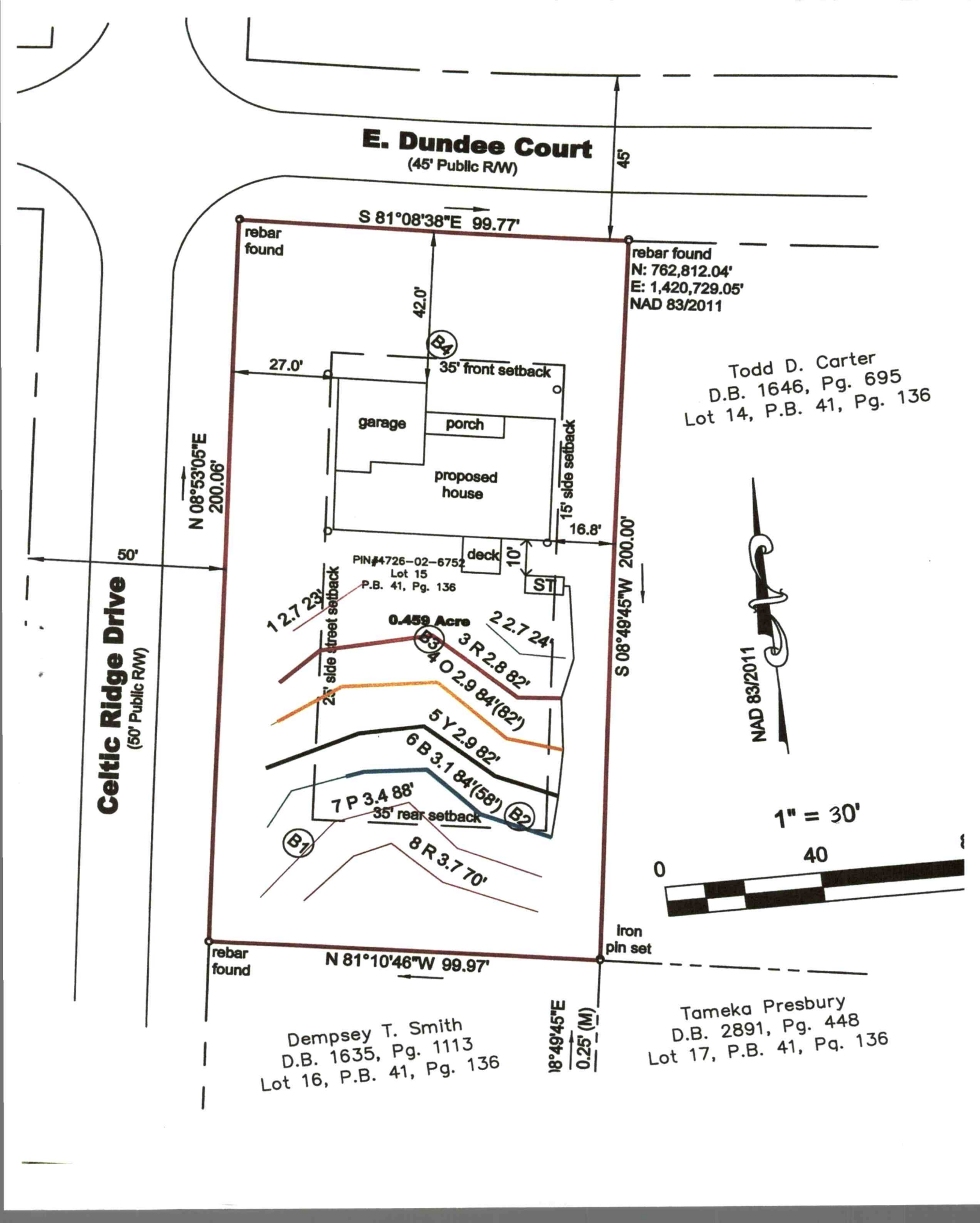
**Property corners & lines located by survey (Jordan Grant & Associates)

CALCULATIONS

Location	106 E. Dundee Court Statesville, NC 28625	
Project Number	23-0063	
Lot No:	15	
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.300	$^{gal}/_{ft^2\,day}$
PPBPS? (YES OR NO)	NO	
Supply Line Length	36	ft.
Supply Line Volume	23.508	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	304	ft.
Gallons per Minute	N/A	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Septic Tank Size	1000	gal.
Panel Volume	N/A	gal.
# of Panels	N/A	
Dosing Volume	N/A	gal.
Tank Draw Down	N/A	
Pump Run Time		
Elevation Head	N/A	ft.
Pressure Head	N/A	ft.
Friction Factor	N/A	ft./100 ft. *(From the interpolater.)*
Friction Head	N/A	ft.
Total Dynamic Head (+15%)	N/A	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


E. Dundee Court
(45' Public R/W)
45'
S 81°08'38"E 99.77'
rebar found
rebar found
N: 762,812.04'
E: 1,420,729.05'
NAD 83/2011
42.0'
B4
35' front setback
27.0'
garage
porch
proposed house
15' side setback
16.8'
deck
10'
ST
N 08°53'05"E 200.06'
S 08°49'45"W 200.00'
50'
Celtic Ridge Drive
(50' Public R/W)
PIN#4726-02-6752
Lot 15
P.B. 41, Pg. 136
0.459 Acre
25' side street setback
1 2.7 23'
2 2.7 24'
B3
3 R 2.8 82'
4 O 2.9 84'(82')
5 Y 2.9 82'
6 B 3.1 84'(58')
B2
7 P 3.4 88'
35' rear setback
B1
8 R 3.7 70'
Todd D. Carter
D.B. 1646, Pg. 695
Lot 14, P.B. 41, Pg. 136
NAD 83/2011
1" = 30'
0
40
rebar found
N 81°10'46"W 99.97'
Iron pin set
18°49'45"E
0.25' (M)
Dempsey T. Smith
D.B. 1635, Pg. 1113
Lot 16, P.B. 41, Pg. 136
Tameka Presbury
D.B. 2891, Pg. 448
Lot 17, P.B. 41, Pg. 136