BLDR-2023-15688

ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2023-37614

PIN # 4706-75-8669

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

APPLICANT / OWNER: Erin Shuldivant APPLICANT ADDRESS: 209 Delburg St Ste 104 Davidson NC 28036

SITE ADDRESS: 119 FOREST CREEK DR, STATESVILLE, NC 28625 PHONE: 980-777-6981 ALT. PHONE:

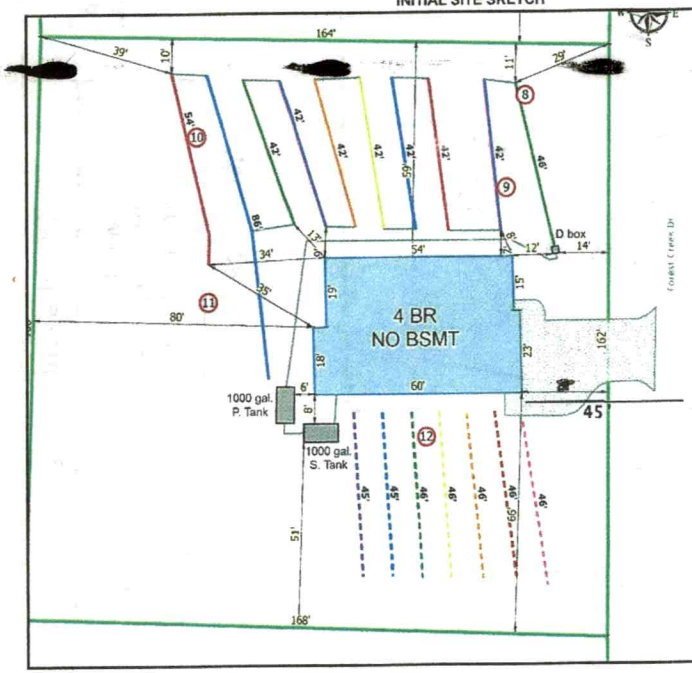
SITE DIRECTIONS: N Wilkesboro Hwy -> L Scotts Creek -> R Forest Creek -> lot on L SAP CONTROLLED: YES ☐ NO ☑

SUBDIVISION: Forest Creek SECTION: 2 LOT #: 5 LOT AREA: 0.535 DESIGN FLOW: 480 L.T.A.R.: 0.25

Septic Tank: 1000 (gal)	STB: 760	Date: 8-28-23	☒ New System ☐ Repair ☐ Expansion	System Type: III	☑ Residence	No. Bedrooms: 4	Water Supply: Other Public Water
Pump Tank: 1000 (gal)	PT: 363	Date: 8-26-23	System Description: 25% Reduction		☐ Business	No. Persons: 8	
Pump Make:	Model:	Serial #:	Repair System Description: 50% Reduction		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 10	Linear Ft.: 480	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space	
Trench Width: 36	Trench Bottom Depth (Low side): 34		Gravel Depth: 0	☐ GRAVITY ☑ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Do not pave, grade, drive, park, or bury utilities in drainfield. Do not exceed 36" with trench bottom at any point.

INITIAL SITE SKETCH



pump run floats SW alarm 12/21/23

Electric Landscape SW 12/22/23

Installed as shown

Tanks } SH
Lines } 10/10/23
D-Boxes }

AS BUILT SKETCH

★ Make sure all foundation drains are removed before signing OP - SH ★

This permit is issued pursuant to G.S. 130A-335(a2), (a3) & (a4) using the signed and sealed LLS/LG Evaluation attached here, from:

Piedmont Environmental Assoc.

LSS# 1229 / ADWE 1009E

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:

IMPROVEMENT PERMIT by: D. Mebey Date: 10/2/23

AUTHORIZATION TO CONSTRUCT by: D. Mebey Date: 10/2/23

Installed By: A J Pope

OPERATION PERMIT by: Sarah Williams Date: 12/22/23

Existing System Inspected By: Date:

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

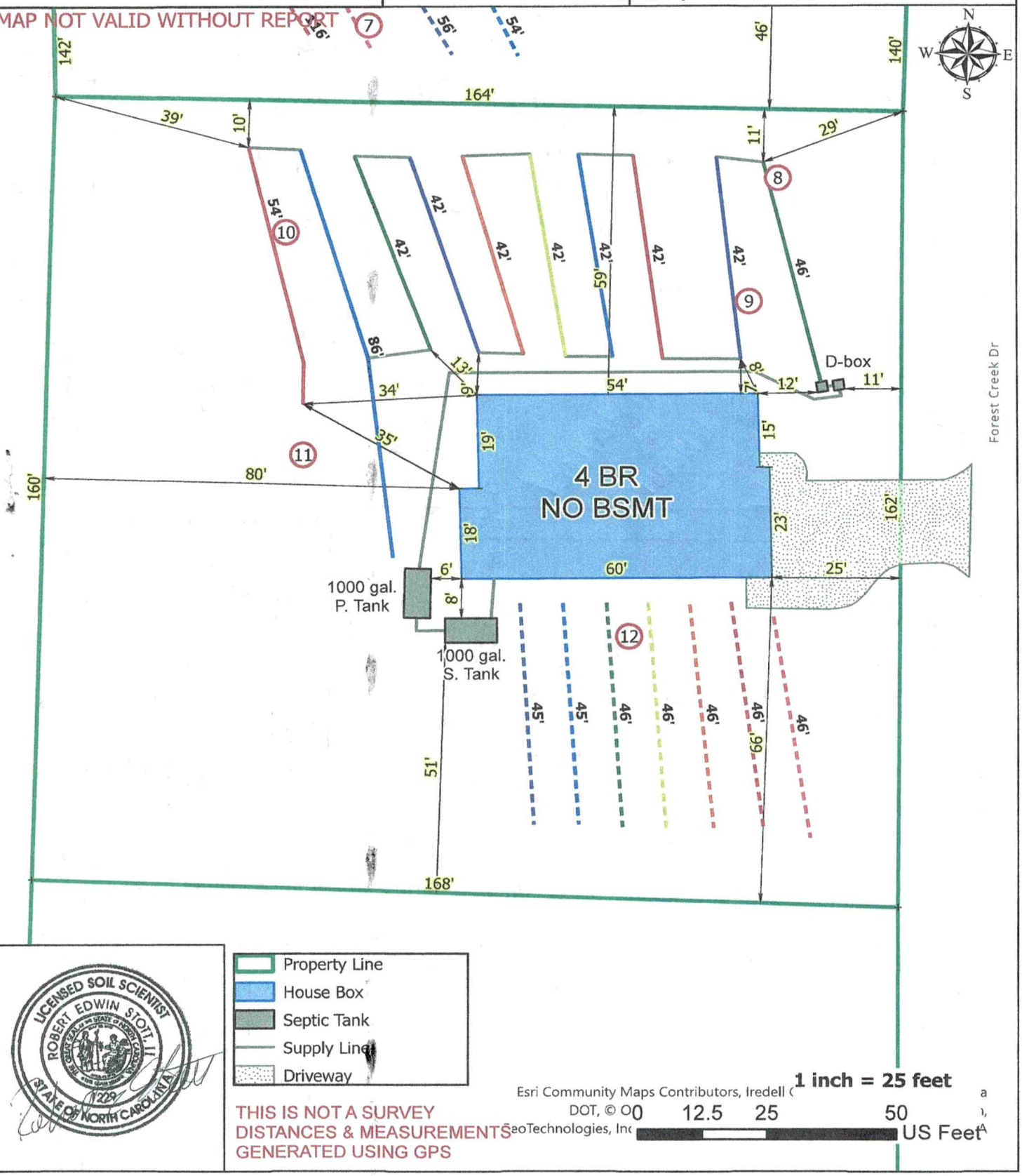
PIEDMONT ENVIRONMENTAL ASSOCIATES, P.A.

Site Plan/Layout/Borings - 119 Forest Creek Dr. - Lot 5

216 S. Swing Rd. Suite 1
Greensboro, NC 27409
piedmontsoil.com

Job# 4559
Date: 9/22/2023
Client: Sturdibouche Real-Estate and Dev.
County: Iredell

MAP NOT VALID WITHOUT REPORT



- Property Line
- House Box
- Septic Tank
- Supply Line
- Driveway

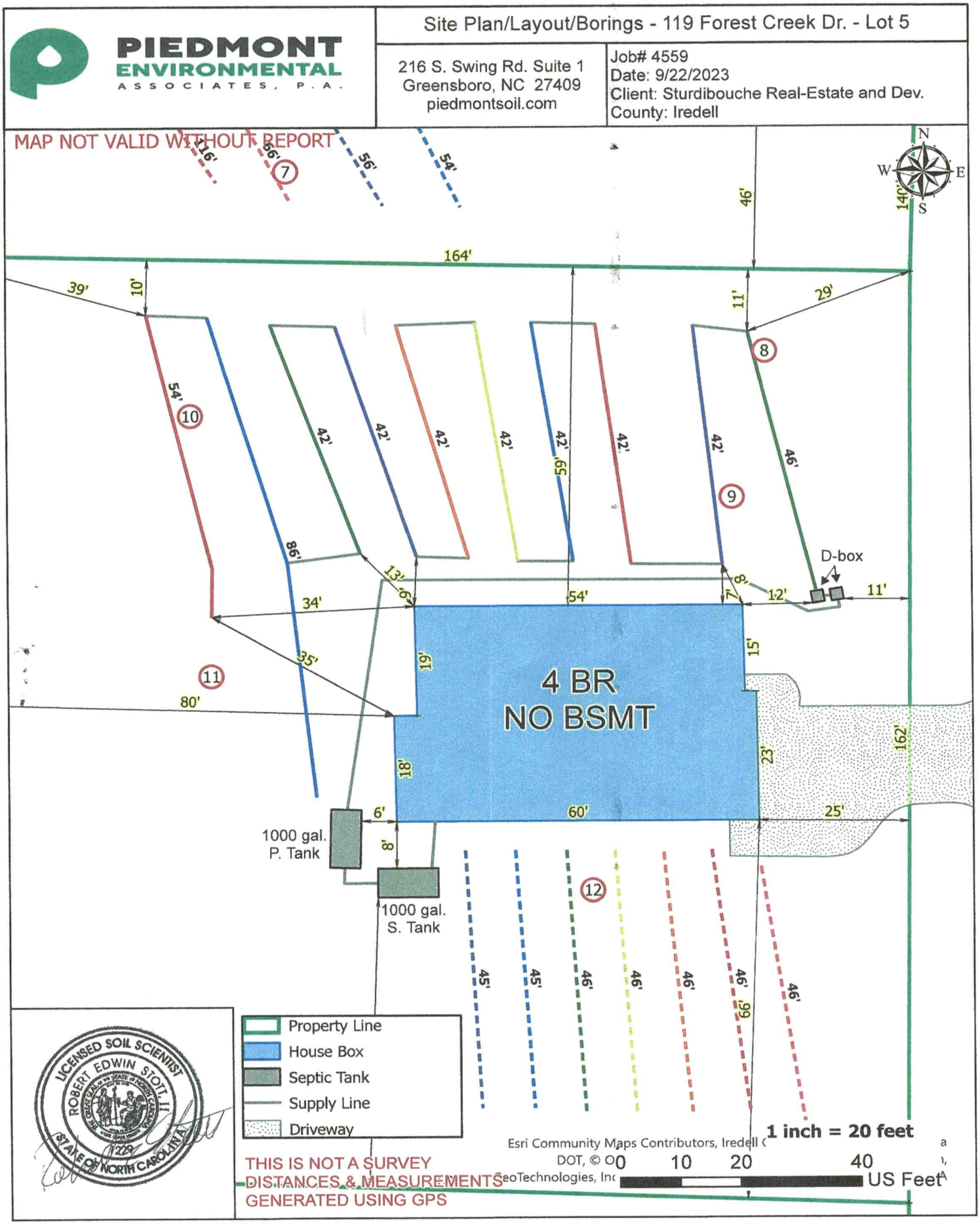
LICENSED SOIL SCIENTIST
ROBERT EDWIN STOTT, II
STATE OF NORTH CAROLINA
1209

THIS IS NOT A SURVEY
DISTANCES & MEASUREMENTS
GENERATED USING GPS

Esri Community Maps Contributors, Iredell C
DOT, © O
eoTechnologies, Inc

1 inch = 25 feet

0 12.5 25 50 US Feet


PIEDMONT ENVIRONMENTAL ASSOCIATES, P.A.
Site Plan/Layout/Borings - 119 Forest Creek Dr. - Lot 5
216 S. Swing Rd. Suite 1
Greensboro, NC 27409
piedmontsoil.com
Job# 4559
Date: 9/22/2023
Client: Sturdibouche Real-Estate and Dev.
County: Iredell
MAP NOT VALID WITHOUT REPORT
N
W
E
S
164'
46'
140'
39'
10'
11'
29'
54'
10
42'
86'
7
116'
66'
56'
54'
8
9
46'
59'
D-box
13'
6'
34'
54'
8'
7'
12'
11'
35'
11
80'
4 BR
NO BSMT
19'
15'
18'
23'
162'
60'
25'
6'
8'
1000 gal.
P. Tank
1000 gal.
S. Tank
12
45'
46'
66'
Property Line
House Box
Septic Tank
Supply Line
Driveway
LICENSED SOIL SCIENTIST
ROBERT EDWIN STOTT, II
STATE OF NORTH CAROLINA
1 inch = 20 feet
0 10 20 40
US Feet
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DOT, © O
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GENERATED USING GPS

BLDR-2023-15688

ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # OSWP-2023-37614

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

PIN # 4706-75-8669

APPLICANT / OWNER: Erin Sturdivant APPLICANT ADDRESS: 209 Delburg St Ste 104 Davidson NC 28036

SITE ADDRESS: 119 FOREST CREEK DR, STATESVILLE, NC 28625 PHONE: 980-777-6981 ALT. PHONE:

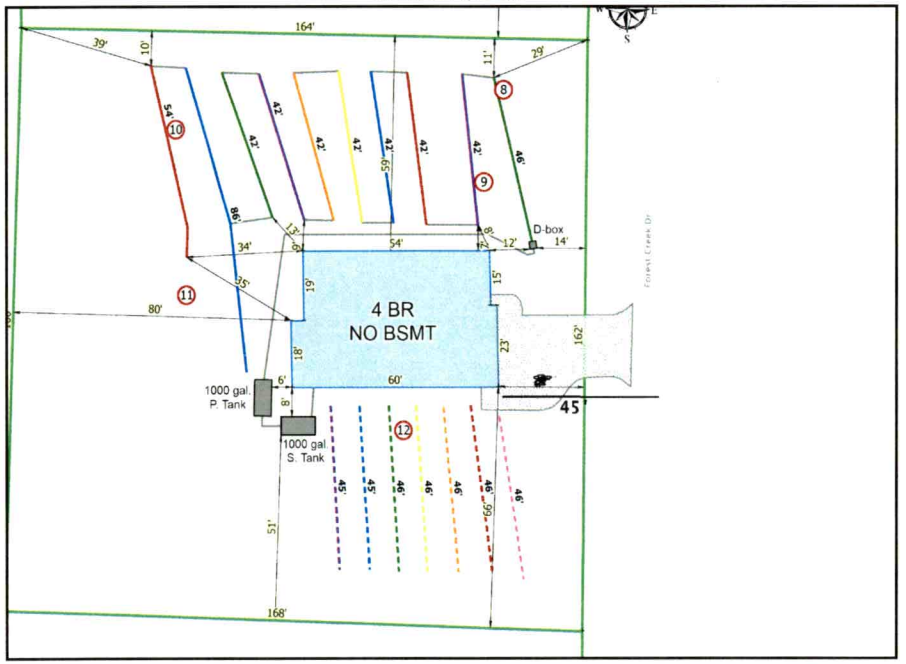
SITE DIRECTIONS: N Wilkesboro Hwy -> L Scotts Creek -> R Forest Creek -> lot on L SAP CONTROLLED: YES ☐ NO ☑

SUBDIVISION: Forest Creek SECTION: 2 LOT #: 5 LOT AREA: 0.535 DESIGN FLOW: 480 L.T.A.R.: 0.25

Septic Tank: 1000 (gal)	STB:	Date:	☒ New System ☐ Repair ☐ Expansion	System Type: III	☑ Residence	No. Bedrooms: 4	Water Supply: Other Public Water
Pump Tank: 1000 (gal)	PT:	Date:	System Description: 25% Reduction		☐ Business	No. Persons: 8	
Pump Make:	Model:	Serial #:	Repair System Description: 50% Reduction		☐ Other	No. Employees:	
# Nitrification Fields: 1	# Lines: 10	Linear Ft.: 480	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space	
Trench Width: 36	Trench Bottom Depth (Low side): 34		Gravel Depth: 0	☐ GRAVITY ☑ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: Do not pave, grade, drive, park, or bury utilities in drainfield. Do not exceed 36" with trench bottom at any point.

INITIAL SITE SKETCH



AS BUILT SKETCH

This permit is issued pursuant to G.S. 130A-335(a2), (a3) & (a4) using the signed and sealed LLS/LG Evaluation attached here, from:

Piedmont Environmental Assoc.

LSS# 1229 / AEWE 1009E

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: Erin Sturdivant Date:

IMPROVEMENT PERMIT by: D. Meberg Date: 10/2/23

AUTHORIZATION TO CONSTRUCT by: D. Meberg Date: 10/2/23

Installed By:

OPERATION PERMIT by: Date:

Existing System Inspected By: Date:

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

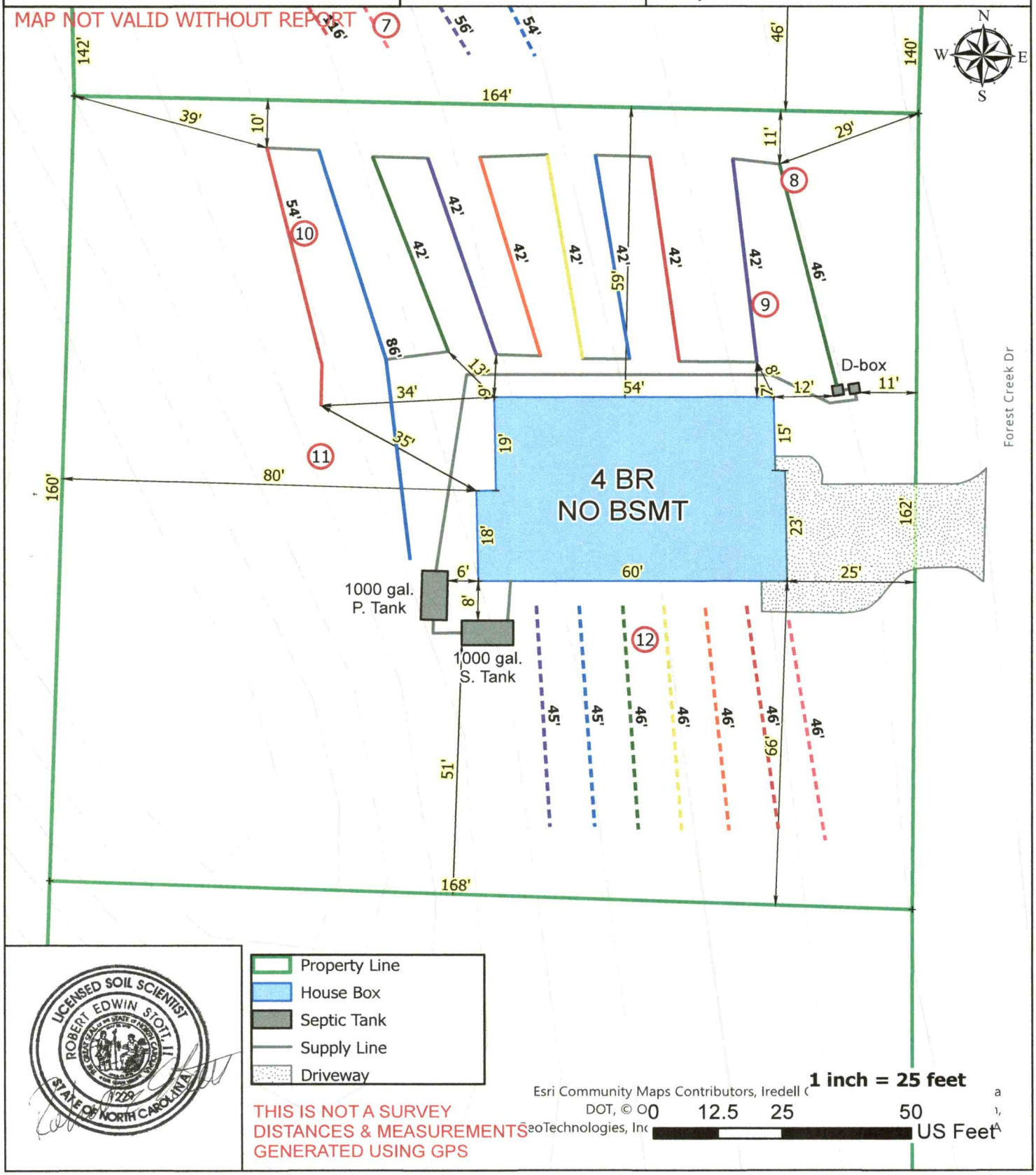
PIEDMONT ENVIRONMENTAL ASSOCIATES, P.A.

Site Plan/Layout/Borings - 119 Forest Creek Dr. - Lot 5

216 S. Swing Rd. Suite 1
Greensboro, NC 27409
piedmontsoil.com

Job# 4559
Date: 9/22/2023
Client: Sturdibouche Real-Estate and Dev.
County: Iredell

MAP NOT VALID WITHOUT REPORT



LICENSED SOIL SCIENTIST
ROBERT EDWIN STOTT, II
STATE OF NORTH CAROLINA

- Property Line
- House Box
- Septic Tank
- Supply Line
- Driveway

THIS IS NOT A SURVEY
DISTANCES & MEASUREMENTS
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1 inch = 25 feet

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GeoTechnologies, Inc

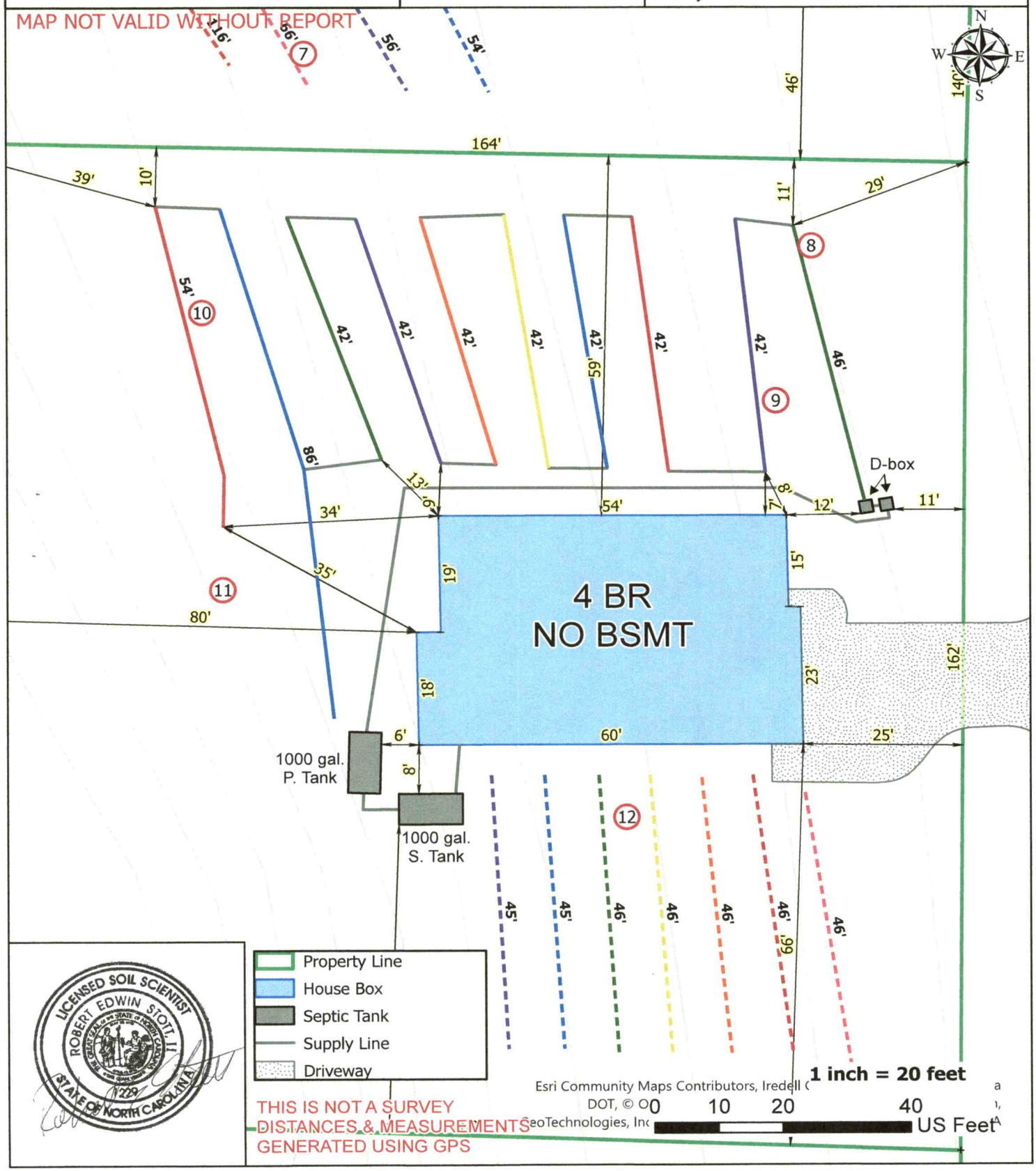
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MAP NOT VALID WITHOUT REPORT



LICENSED SOIL SCIENTIST
ROBERT EDWIN STOTT, II
1229
STATE OF NORTH CAROLINA

THIS IS NOT A SURVEY
DISTANCES & MEASUREMENTS
GENERATED USING GPS

Permit #: _____

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK BENTON • Deputy Secretary for Health
SUSAN KANSAGRA • Assistant Secretary for Public Health
Division of Public Health

Submittal Includes: ☑ (a2) Improvement Permit ☑ (a2) Construction Authorization ☐ Fee $_____

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

County: Iredell

PIN/Lot Identifier: 4706758669.000

Issued To: Erin Sturdivant Company: Sturdibouche Real Estate and Development

Property Location: 119 Forest Creek Drive City/Town: Statesville

Subdivision (if applicable) Forest Creek Lot #: 5 Block: _____ Section: _____

LSS Report Provided: Yes ☑ No ☐

If yes, name and license number of LSS: R. Edwin Stott #1229

New ☑ Expansion ☐ System Relocation ☐ Change of Use ☐

Proposed Structure: Single Family Residence

Number of bedrooms: 4 Number of Occupants: 8 max Other: _____

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

Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.25 Proposed LTAR (Repair): 0.25

Proposed Wastewater System Type*: IQ4 Chamber (Initial) Pump Required: ☑ Yes ☐ No ☐ May be required

Proposed Wastewater System Type*: PPBPS (Repair) Pump Required: ☑ Yes ☐ No ☐ May be required

**Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)*

Saprolite System (initial): ☐ Yes ☑ No Saprolite System (repair): ☐ Yes ☑ No

Fill System (Initial): ☐ Yes ☑ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Fill System (repair): ☐ Yes ☑ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area provide a fill plan)

Usable Soil Depth (Initial): 46 Usable Soil Depth (Repair): 40

Max. Trench Depth (Initial)‡: 34 (top 7 lines) ~~21 (bottom 3 lines)~~ Max. Trench Depth (Repair)‡: 28 ***‡ Measured on the downhill side of the trench***

Artificial Drainage Required: ☐ Yes ☑ No If yes, please specify details: _____

Type of Water Supply: ☐ Private well ☐ Public well ☐ Shared 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 ATTACHED SHEET

Licensed Soil Scientist Print Name: R. Edwin Stott

Licensed Soil Scientist Signature: Robert Edwin Stott Date: September 22, 2023

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

See attached site sketch

NCDHHS

Permit #: OSWP-2023-37614

This Section for Local Health Department Use Only

Initial submittal received: 9/28/23 (*Date*) by DW (*Initials*)

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

☐ 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 Applicant on _____ (*Date*)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: DWieberg Date: 10/2/23

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) 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 permit is subject to revocation if the site plan, plat, or the intended use changes. 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 the conditions of this permit.

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: 10/2/28

See attached site sketch

Permit #: OSWP-2023-37614

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

County: Iredell

PIN/Lot Identifier: 4706758669.000

Issued To: Erin Sturdivant Company: Sturdibouche Real Estate and Development

Property Location: 119 Forest Creek Drive City/Town: Statesville

AOWE/PE Plans/Evaluations Provided: Yes ☑ No ☐ If yes, name and license number of AOWE/PE: R. Edwin Stott #10009E

Facility Type: Single Family Residence

☑ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use

Basement? ☐ Yes ☑ No Basement Fixtures? ☐ Yes ☐ No

Type of Wastewater System* IQ4 Chamber (Initial) PPBPS (Repair)

**Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)*

Design Daily Flow: 480 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
(if yes, please provide engineering documentation)

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 480 feet Trench/Bed Spacing: 9 feet on center

Trench/Bed Width: 36 inches LTAR: 0.25 gpd/ft² 21 (bottom 3)

Soil Cover: 22 inches Slope Corrected Maximum Trench/Bed Depth‡: 34 (top 7) inches ***‡ Measured on the downhill side of the trench***

Aggregate Depth: N/A inches above pipe N/A inches below pipe N/A inches total

Pump Tank Size (if applicable): 1000 gallons Requires more than 1 pump? ☐ Yes ☑ No

Pump Requirements: 17.8 ft. TDH vs. 21 GPM Grease Trap Size (if applicable): N/A 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

Pre-Construction Conference Required: Yes ☑ No ☐

Conditions: SEE ATTACHED SHEET

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: R. Edwin Stott Expiration Date:

AOWE/PE Signature: R. Edwin Stott Date: September 22, 2023

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch

NCDHHS

Permit #: OSWP-2023-37614

This Section for Local Health Department Use Only

Initial submittal received: 9/28/23 (*Date*) by DW (*Initials*)

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by 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, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This Construction Authorization is determined to be:

☐ 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 Applicant on _____ (*Date*)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: DWieberg Date of Issuance: 10/2/23

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) 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. 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 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: 10/2/28

See attached site sketch

Client:	Erin Sturdivant	**Site Classification:**	PS
Address/Lot #:	119 Forest Creek Dr.	**Initial System:**	IQ4 Chamber
Parcel#:	4706758669.000	**Initial System LTAR:**	0.25
DATE:	8/2/2023	**Repair System:**	PPBPS
LSS:	R. Edwin Stott	**Repair System LTAR:**	0.25
Eval Method:	Auger	**Others Present:**	TH
Facility/Flow:	4 BR/ 480 GPD	**Water Supply:**	Municipal

PIEDMONT ENVIRONMENTAL ASSOCIATES, P.A.

Number	UsableDep	LTAR	Boring Type	Horizon1	Horizon2	Horizon3	Horizon4	Landscape	Slope	Comment
8	48	0.3	Conv	0-22 compacted	22-36 c fi,s,p,bcky,se	36-48 cl fr,ss,sp,wbcky,se		Ridge	6	
9	48	0.3	Conv	0-22 compacted	22-36 c fi,s,p,bcky,se	36-48 cl fr,ss,sp,wbcky,se		Ridge	6	
10	36	0.25	Conv	0-8 l	8-36 c fi,s,p,bcky,se			Side	8	
11	42	0.25	Conv	0-3 l	3-42 c fi,s,p,bcky,se			Side	8	
12	42	0.25	Conv	0-12 compacted	12-30 c,f,s,p,bcky,se	30-42 scl/c fr,ss,sp,bcky,se		Ridge	4	

Notes: 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, PS - Provisionally Suitable, U - Unsuitable
LTAR - Long Term Acceptance Rate
Landscape Position: SU - summit, SH - shoulder, BS - backslope, FS - footslope, TS - toeslope, SS - sideslope, HS - headslope
Mineralogy: SE - slightly expansive, EXP - expansive

Comments/Conditions:

Septic System Layout Specifications

119 Forest Creek Dr. - Lot 5 - Forest Creek - Iredell County

Piedmont Environmental Associates Job #4559

Facility/Design Flow: 4 BR Single Family Residence

PRIMARY					REPAIR			
LINE # Ref. Pt.	FLAG COLOR	ELEV.	DESIGN LINE LENGTH (ft)	CHAMBERS NEEDED	LINE #	FLAG COLOR	ELEV.	DESIGN LINE LENGTH (ft)
1	green		46	11	1	pink		46
2	purple		42	10	2	red		46
3	red		42	10	3	orange		46
4	blue		42	10	4	yellow		46
5	yellow		42	10	5	green		46
6	orange		42	10	6	blue		45
7	purple		42	10	7	purple		45
8	green		42	10	8			
9	blue		86	21	9			
10	red		54	13	10			
		Total:	480	115			Total:	320
		LTAR:	0.25				LTAR:	0.25
		SYSTEM TYPE:	Accepted				SYSTEM TYPE:	Gravelless
		DISTRIBUTION MEDIA:	IQ4 Chamber				DISTRIBUTION MEDIA:	PPBPS
		DISTRIBUTION METHOD:	Pump to Serial				DISTRIBUTION METHOD:	Pump to Serial

Notes:

**All measurements in feet.

**Soil evaluated by private LSS

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

Pump Design and Sizing Sheet

Erin Sturdivant — Job # 4559

119 Forest Creek Dr. - Lot 5 - Forest Creek - Iredell County

Site Information

Bedrooms:	4	
LTAR:	0.25	
Daily Flow (gpd):	480	
Trench Length (ft):	480	
Septic Tank Size (gal):	1000	
Pump Tank Size (gal):	1000	
Supply Line Length (ft):	116	
Supply Line Dia. (in):	2	
Total Design Flow:	480	
Total Drainfield Vol.:	312.4	
Percent of Dose Vol.:	0.66	(from .1900 rules)
Dosing Vol. (gal):	206.2	
Pump Tank (gal/in):	21.0	(average)
Drawdown (in):	9.8	
Ground Elev. at Pump Tank (ft):	994	
Pump Tank Install Depth (ft):	1	
Pump Tank Elevation (ft):	993	
Pump Elev. Difference (ft):	5	(typical config.)
Pump Elev. (ft):	988	
Elev. of Highest Drainline (ft):	1,004	
Elev. Head (ft):	16	
Friction Head (ft):	1.77	
Pressure Head (ft):	0	
TDH Capacity (ft):	**17.8**	
Flow Capacity (GPM):	**21**	(typical value)
Pump Run (min./dose):	**9.82**	

Recommended Pump: Zoeller Model 98 or approved equivalent

PIEDMONT ENVIRONMENTAL ASSOCIATES, P.A.

September 22, 2023

Project # 4559

Session Law 2023-90 (H628)

Client:

Erin Sturdivant

Sturdibouche Real Estate and Development

Site:

119 Forest Creek Drive

Iredell County, NC

PIN: 4706758669.000

Lot 5 - Forest Creek

Prepared by:

R. Edwin Stott

NC Licensed Soil Scientist #1229

NC Onsite Wastewater Evaluator #10009E

Application for Services

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submitted in accordance with G.S. 130A-335(a2), (a3), and (a5).
[hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Applying for:
☑ (a2) Improvement Permit ☑ (a2) Construction Authorization ☐ (a2) Repair/Construction Authorization

Please check one of the following:
☑ New Construction ☐ Expansion ☐ System Relocation ☐ Change of Use ☐ Repair
☑ 5 Year Expiration Requested (site plan provided)
☐ Non-Expiring Permit Requested (plat provided, as defined in G.S. 130A-334(7a)

Property Owner Name: Sturdibouche Real-Estate and Development
Property Owner Mailing Address: 209 Delburg Street Davidson, NC 28026
Property Owner Phone Number: 980-777-6981
Property Owner Email Address: erin@sturdibouche.com

Applicant Name: Sturdibouche Real-Estate and Development
Applicant Mailing Address: 209 Delburg Street Davidson, NC 28026
Applicant Phone Number: 980-777-6981
Applicant Email Address: erin@sturdibouche.com

Does the property include, or is subject to, any of the following:
☐ Yes ☑ No Previously identified jurisdictional wetlands
☐ Yes ☑ No Existing or proposed easements, rights-of-way, encroachments, or other areas subject to legal restrictions
☐ Yes ☑ No Approval by other public agencies

A site plan or plat is required, **OR** the site sketch submitted from the LSS/AOWE, must include the following:
(A) existing and proposed facilities, structures, appurtenances, and wastewater systems
(B) proposed wastewater system showing setbacks to property line(s) or other fixed reference point(s)
(C) existing and proposed vehicular traffic areas
(D) existing and proposed water supplies, wells, springs, and water lines; and
(E) surface water, drainage features, and all existing and proposed artificial drainage, as applicable.

Requesting DHHS review: ☐ Yes ☑ No

I understand that the documentation and fees, as required in G.S. 130A-335(a2), (a3), (a5), and (a6), attached to this application are to be used to issue an Improvement Permit and/or Construction Authorization pursuant to G.S. 130A-335(a2),(a3), and (a5). I understand that authorized county and state officials are granted right of entry to the property indicated on this application to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that if the information in the application for an Improvements Permit and/or Construction Authorization is falsified, changed, or the site is altered, then the Improvement Permit and Construction Authorization shall become invalid.

Applicant Signature: Erin D. Sturdivant Date: 10/02/23

Owner's Signature: Spartacus Borsini Investments LLC Date: 10/02/23

Permit Parameters and Conditions

- Design flow with residential systems utilizes the number of bedrooms and assumes no more than two residents per bedroom at 60 gallons per resident or 120 gallons per bedroom. This is how the design flow of 480 gallons per day is calculated. The wastewater system is designed to handle a maximum flow of 480 gallons per day. This flow should not be maintained for any sustained length of time or oversaturation can occur in the trenches. An average daily water usage of 50% is recommended for peak performance.
- No garbage disposals should be added to the wastewater stream.
- Water softener waste should not be added to the wastewater stream.
- Fats, oils and greases or FOG should not be added to the wastewater stream and can cause premature failure. Dispose of fats, oils, greases and garbage properly in household waste.
- There should be no traffic over the wastewater system area.
- Piedmont Environmental recommends a preconstruction conference prior to any installation to ensure that the system is placed in the correct area once the site is cleared of vegetation.
- Please note that mechanical clearing that is done in wet conditions or done by someone not following best management practices can render an otherwise usable site unsuitable.
- Piedmont Environmental Associates, PA highly recommends using a reputable septic system installer that is licensed in North Carolina to perform or oversee any clearing.
- All installation work shall be performed by a licensed Wastewater System Installer
- Do not install during wet conditions
- Pump tank every three to five years
- Landscape promptly to obtain a good grass cover to prevent erosion over new part of system
- Do not backfill trenches with compacted soil or fill
- Last 3 inches of dams shall by dug by hand
- Top 7 initial septic lines shall have a maximum trench depth of 34 inches
- Bottom 3 initial septic lines shall have a maximum trench depth of 21 inches

Disclaimer

This report discusses the general location of potentially usable soils for on-site wastewater disposal and the soil and site limitations on the property that exists at the time of the evaluation. Piedmont Environmental Associates, PA ("Piedmont") provides professional consulting specializing in the practice of soil science and wastewater management. Piedmont is therefore hired for its professional opinion regarding these matters. This report is being prepared as part of a packet to obtain an improvement permit SL2023-90 and GS 130A-335 and GS 130A-336. Piedmont Environmental Associates provides no warranty either written or implied regarding the lifespan of any type of septic system. Piedmont Environmental Associates utilizes accepted soil science practices and assigns LTAR's and proposes trench depths based on field observation, law, rule, published data and accepted practice of the profession. Piedmont Environmental Associates however cannot guarantee the life span of any type of septic system component, trench media, pretreatment device, distribution device, distribution method, or installation method as there are simply too many variables that are not within the control of Piedmont Environmental Associates.

If you have any further questions, please feel free to call. Thank you for the opportunity to serve.

Sincerely,





R. Edwin Stott II, REHS, MSEH
NC Licensed Soil Scientist
NC On-site Wastewater Evaluator

Setbacks

.1950 Location of Sanitary Sewage Systems

(c) Every sanitary sewage treatment and disposal system shall be located at least the minimum horizontal distance from the following:

(1) Any private water supply source including a well or spring 100 feet
(2) Any public water supply source 100 feet
(3) Streams classified as WS-I 100 feet
(4) Water classified as S.A. 100 feet
from mean high water mark
(5) Other coastal waters 50 feet
from mean high water mark
(6) Any other stream, canal, marsh, or other surface waters 50 feet
(7) Any Class I or Class II reservoir 100 feet
from normal pool elevation
(8) Any permanent storm water retention pond 50 feet
from flood pool elevation
(9) Any other lake or pond 50 feet
from normal pool elevation
(10) Any building foundation 5 feet
(11) Any basement 15 feet
(12) Any property line 10 feet
(13) Top of slope of embankments or cuts of 2 feet or more
vertical height 15 feet
(14) Any water line 10 feet
(15) Drainage systems:
(A) Interceptor drains, foundation drains and storm water diversions
(i) upslope 10 feet
(ii) sideslope 15 feet
(iii) downslope 25 feet
(B) Groundwater lowering ditched and devices 25 feet
(16) any swimming pool 15 feet
(17) any other nitrification field (except repair area) 20 feet

(b) Ground absorption, sewage treatment and disposal systems may be located closer than 100 feet from a private well supply, except springs and uncased wells located downslope and used as a source of drinking water, repairs, space limitations and other site-planning considerations but shall be located the maximum feasible distance and, in no case, less than 50 feet.

(c) Nitrification fields and repair areas shall not be located under paved areas or areas subject to vehicular traffic. If effluent is to be conveyed under areas subject to vehicular traffic, ductile iron or its equivalent pipe shall be used. However, pipe specified in Rule .1955 (e) may be used if a minimum of 30 inches of compacted cover is provided over the pipe.

Note: Systems over 3000 GPD or an individual nitrification fields with a capacity of 1500 GPD or more have more restrictive setback requirements, see .1950 (a) (17) (d) for specifics.

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

Sheet 1 of 1
PROPERTY ID #: 4706758669
COUNTY: Iredell

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

OWNER: Sturdivant Innovations LLC — APPLICATION DATE 11-29-22
ADDRESS: 209 Delburg St. Ste. 104 — DATE EVALUATED: 12-29-22
PROPOSED FACILITY: 4-5 BR — PROPOSED DESIGN FLOW (.1949): 480-600gpd — PROPERTY SIZE: .535
LOCATION OF SITE: 119 Forest Creek Dr., Statesville 28625 — PROPERTY RECORDED: yes
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☑ Other Community
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut — TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	Linear 12%	0-30	C/ABK	SS-SP-FR-SEXP	Some litho Inc in clay Mica Inc in CL @ 45"	67"			P.S .3
		30-67	CL/SBK	SS-SP-FR-SEXP					
2	Linear 13%	0-4	SCL/GR	SS-SP-FR-SEXP	Sap Inc in CL Few Y/B in CL	62"	—	—	P.S .275
		4-28	C/ABK	↓					
		28-62	CL/SBK						
3	Linear 13%	0-8	SCL/SBK	SS-SP-FR-SEXP	Y/B 36"+	50"	—	—	P.S .275
		8-50	C/SBK	SS-SP-FR-SEXP					
4	14%	0-19	C/SBK	S-P-FR-SEXP	Chroma 2 @ 35"	61"	—	—	PS 0.1 DRIP
		19-61	CL/SBK	S-P-FR-SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	291'	4800
System Type(s)	50%	DRIP
Site LTAR	.275	.1

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: S Holland
OTHER(S) PRESENT: C. Whicker, S. Braken

COMMENTS: (Gully to be filled) → on Permit

Updated February 2014

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

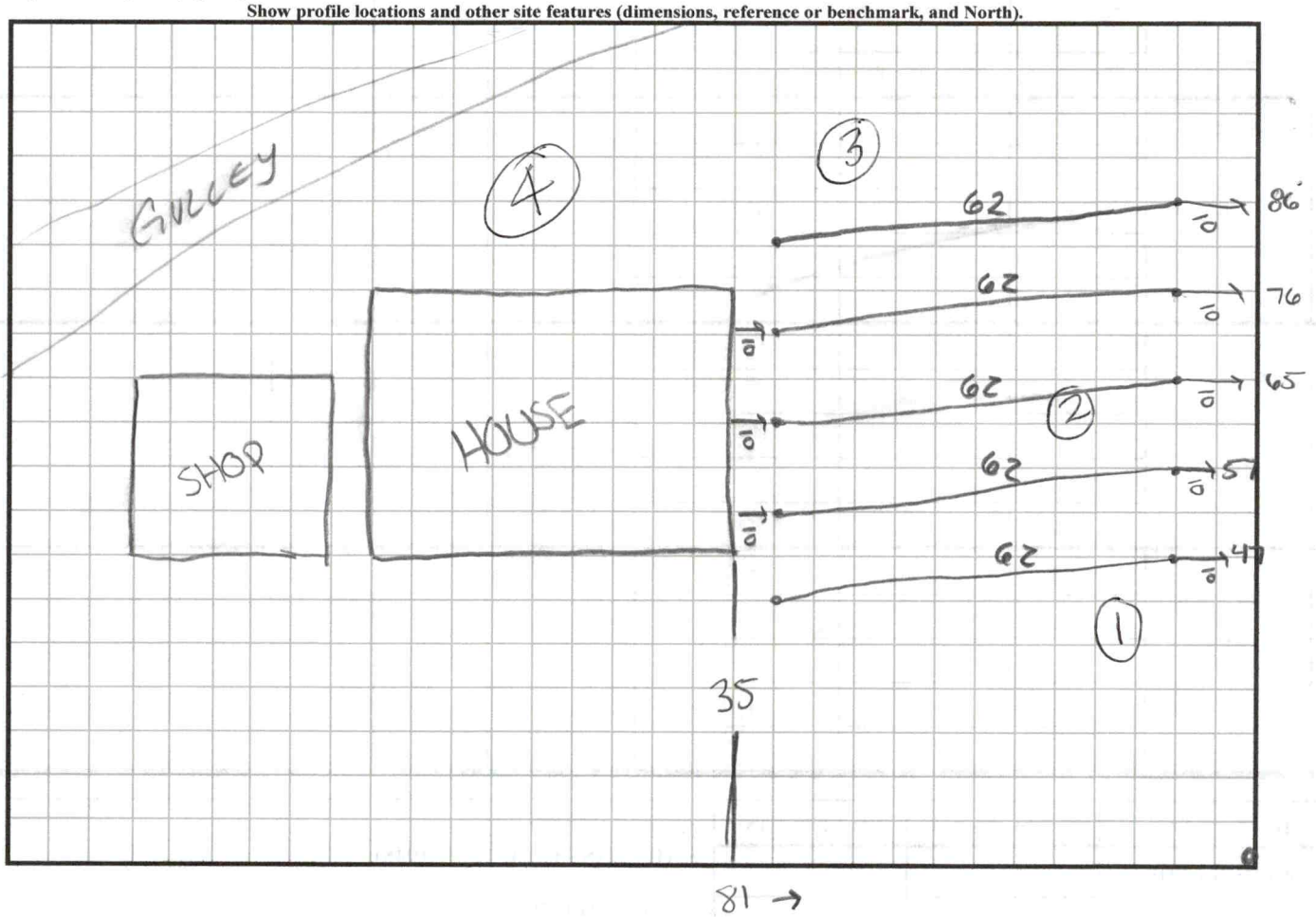
NOTES

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)
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), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

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



Lots must be combined before signing A.C

Sign I.P.

PERMIT SNAPSHOT REPORT OSWP-2022-10287
FOR IREDELL COUNTY

Permit Type: Environmental Health OSWP
Work Class: EH Septic Improvement Permit
Status: In Progress
Valuation: $0.00
Description: Building a new home, 4-5 BED 3 BATH

Project:
District: Iredell County
Square Feet: 0.00
Assigned To: Holland, Sydney

App Date: 11/29/2022
Exp Date: NOT AVAILABLE
Completed: NOT COMPLETED
Approval Expire Date:

Parcel: 4706758669.000 Main

Address: 119 Forest Creek Dr Main
Statesville, NC 28625

Zone: R-20(Suburban Residential District)

Applicant/Authorized Agent
Sturdivant Innovations LLC
209 Delburg ST STE104 209
DELBURG ST STE 104
Davidson, NC 28036
Business: (980) 777-6981
Mobile: (980) 777-6981

Project Contact
Erin Sturdivant
Home: (980) 777-6981
Mobile: (980) 777-6981

Property Owner
Erin Sturdivant
Home: (980) 777-6981
Mobile: (980) 777-6981

Permit Custom Fields

How is your site plan being submitted	Custom Site Plan	Does the site contain any jurisdictional wetlands	No	Non-domestic Sewage Generated	No
Other Public Agency	No	All proposed structure dimensions	35*53 PLUS 20*20 GARAGE	What are the proposed structures	Accessory Building, New Single Family Residence
If other Addition/Structure, please explain	DETACHED GARAGE 20*20	Maximum Number of Bedrooms	5	Number of Occupants	6
Foundation Type	Crawl Space Foundation	Water Supply	Community Well	Desired Septic System Type	Conventional (most common)
If other septic system type, please explain		Has this project been approved by TRC	No	Lot Acreage	0.535
Front Setback	35	Back Setback	35	Left Setback	15
Right Setback	15	Zoning Permit Issued Date	Nov 30 2022 12:00AM	Zoning Permit Expiration Date	May 29 2023 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	Accessory Structures: Must meet requirement R1 of the LDC. Shall not be erected in front building line of the principal structure or within 25' of a side street on a corner lot. Shall not be erected within 10' of any line not a street line or within 10' of any other building on the same lot. Shall not be erected within the 50' buffer zone of lake lots. Shall not exceed the height limitation of the principal structure. Exceptions to the front building line location: 1.If the lot is 1 acre or greater and the location of the structure is at least 150'from the frontage street right of way line then the structure can be located in front of home or 2.Is a double frontage lake lot. Any accessory building or structure over 2000 sq/ft shall be setback a minimum of 30' from any property line.		Metal carports not exceeding 400 sq/ft are allowed in the front yard provided they meet the front setback requirement of the principal structure.	Additional Unique Setbacks Apply	No

PERMIT SNAPSHOT REPORT (OSWP-2022-10287)

Watershed NOT IN A WATERSHED

Attachment File Name	Added On	Added By	Attachment Group	Notes
Signature_Erin_Sturdivant_11/29/2022.jpg	11/29/2022 12:25	Sturdivant, Erin		Uploaded via CSS
119 Forest Creek Dr lOT #5 sITE pLAN_v1.pdf	11/29/2022 15:53	Nebel, Barbara	Available Online	Site Plan
119 Forest Creek Signed AA ALL_v1.pdf	11/29/2022 15:53	Nebel, Barbara	Available Online	Authorize to Act as Agent

Inspection Number	Status	Inspection Type	Request Date	Scheduled Start Date	Scheduled End Date	Actual Start Date	Actual End Date
2022-45577	Passed - Permit	OSWP Septic/Well Preliminary Site Visit	12/15/2022			12/15/2022 8:16	12/15/2022 8:16

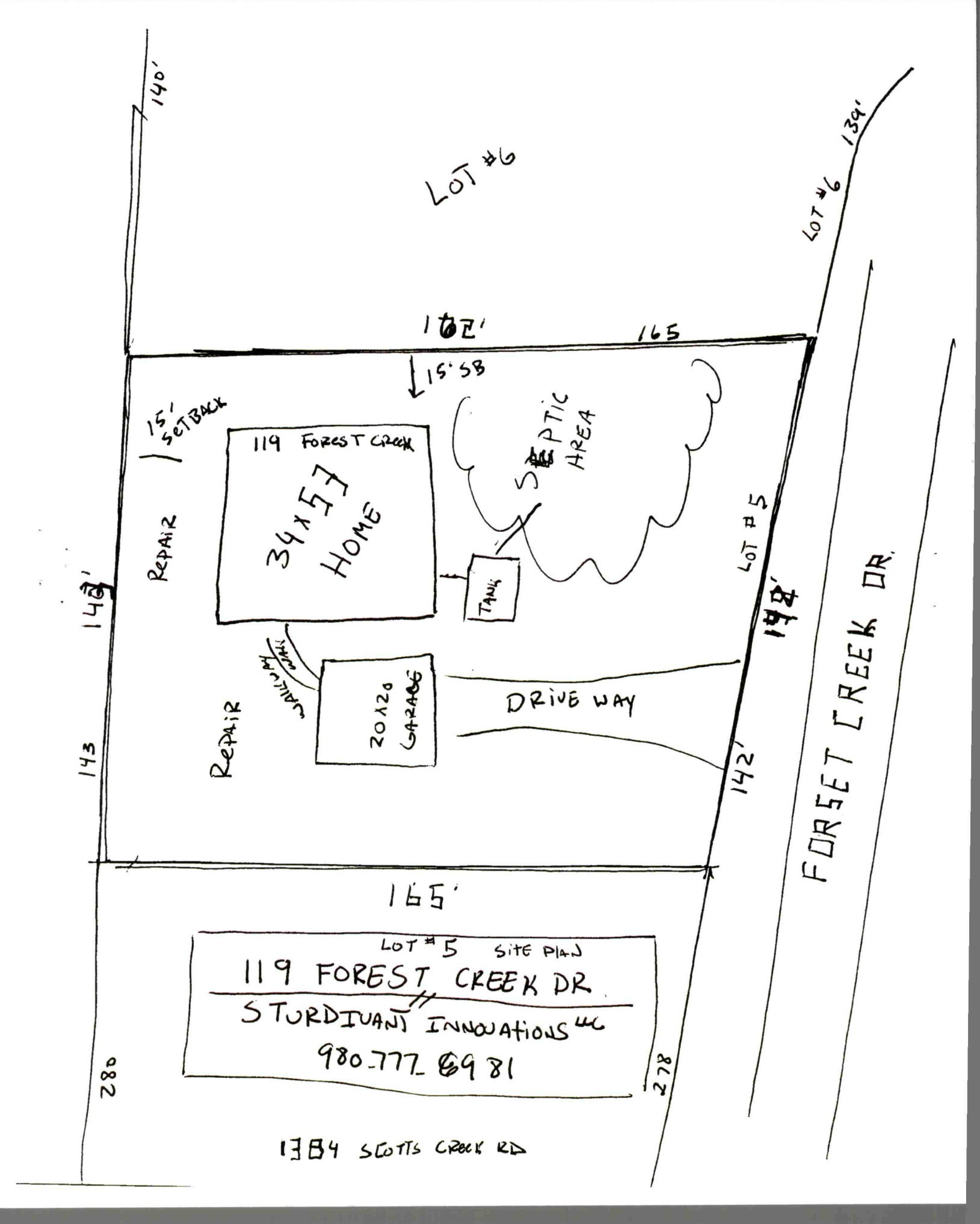
Inspectors: Kobuck, Teanna (Primary)

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

Note	Created By	Date and Time Created
1. Scheduled 12/29/22- 9am	Sydney Holland	12/21/2022 8:11

Invoice No.	Fee	Fee Amount	Amount Paid
INV-00005680	Iredell Zoning Permit Fee	$75.00	$75.00
	New Gravity System	$500.00	$500.00
	Iredell Zoning Tech Fee	$2.25	$2.25
	Total for Invoice INV-00005680	$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		11/29/2022 0:00	11/29/2022 15:53
Confirm application complete v.1	Generic Action		11/29/2022 15:53
Fees v.1		11/29/2022 0:00	12/02/2022 11:33
Issue Invoice v.1	Generic Action		11/29/2022 15:54
Fees Paid v.1	Generic Action		12/02/2022 11:33
Zoning Review v.1		11/29/2022 0:00	12/02/2022 8:57
Iredell County Zoning Approval v.1	Task	11/29/2022 0:00	12/02/2022 8:57
Issue Invoice v.1	Generic Action		11/29/2022 15:54
Fees Paid v.1	Generic Action		12/02/2022 8:57
Lot Readiness Verification v.1		12/16/2022 8:16	
OSWP Septic Preliminary Site Visit v.1	Inspection	12/16/2022 8:16	12/16/2022 8:18
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		


140'
LOT #6
LOT #6
139'
102'
165
15' SB
15' SETBACK
119 FOREST CREEK
34x57 HOME
SEPTIC AREA
TANK
LOT #5
REPAIR
148'
SALIUM WALL
20x20 GARAGE
DRIVE WAY
REPAIR
143
142'
FOREST CREEK DR.
165'
LOT #5 SITE PLAN
119 FOREST CREEK DR
STURDIVANT INNOVATIONS LLC
980-777-6981
280
278
1384 SCOTTS CREEK RD

Iredell County, North Carolina

December 30, 2022



IREDELL COUNTY, NC

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

Iredell County, North Carolina makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

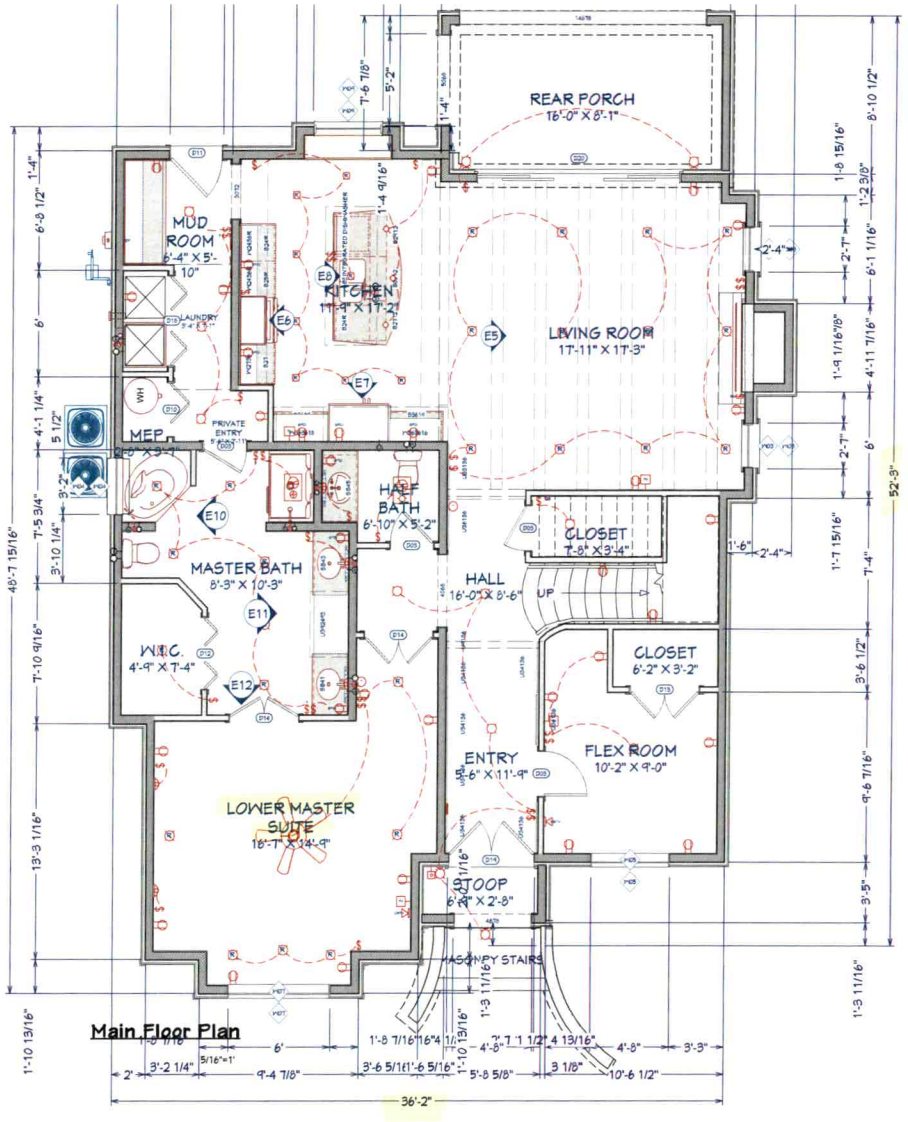
FLOOR PLAN NOTES:

1. ALL EXTERIOR DIMENSIONS ARE TO THE FRAMING OR MAIN LAYER. DIMENSIONS TO OPENINGS ARE TO THE CENTER.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND IS RESPONSIBLE FOR ALL DIMENSIONS (INCLUDING ROUGH OPENINGS).



1st Floor Overview Rendering

For Illustration Only — No Scale



Main Floor Plan

LIVING AREA
1554 SQ FT

INNOVATION DESIGNS

Revision Table		
Number	Date	Revised By / Description

Main Floor Plan

DRAWINGS PROVIDED BY:
Innovation Designs

DATE:
12/18/2022

SCALE:

SHEET:
A-08

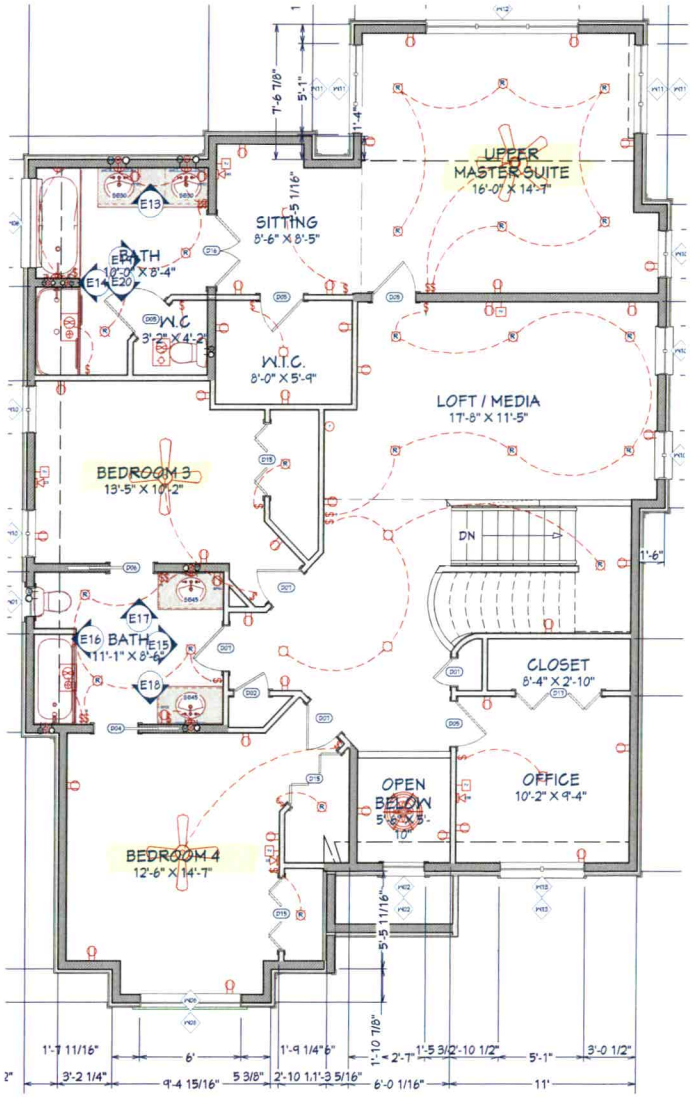
FLOOR PLAN NOTES:

1. ALL EXTERIOR DIMENSIONS ARE TO THE FRAMING OR MAIN LAYER. DIMENSIONS TO OPENINGS ARE TO THE CENTER.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND IS RESPONSIBLE FOR ALL DIMENSIONS (INCLUDING ROUGH OPENINGS).



2nd Floor Overview Rendering

For Illustration Only — No Scale



Second Floor Plan

5/16"=1'

INNOVATION DESIGNS

Number:	Date:	Revision Table Description	Approved By:

Second Floor Plan

DRAWINGS PROVIDED BY: Innovation Designs

DATE: 12/18/2022

SCALE:

SHEET: A-09