# IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP-247605

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

PIN # 4614951342

APPLICANT/OWNER: Allan Hoppe APPLICANT ADDRESS: 16219 Weatherly Way

SITE ADDRESS: 172 Lucent Ln, Mooresville 28117 PHONE: 704-947-4007 ALT. PHONE —

SITE DIRECTIONS: Brawley School Rd → R on Tuskaroro → R on Lucent → on R at end SAP CONTROLLED: ☐ YES ☒ NO

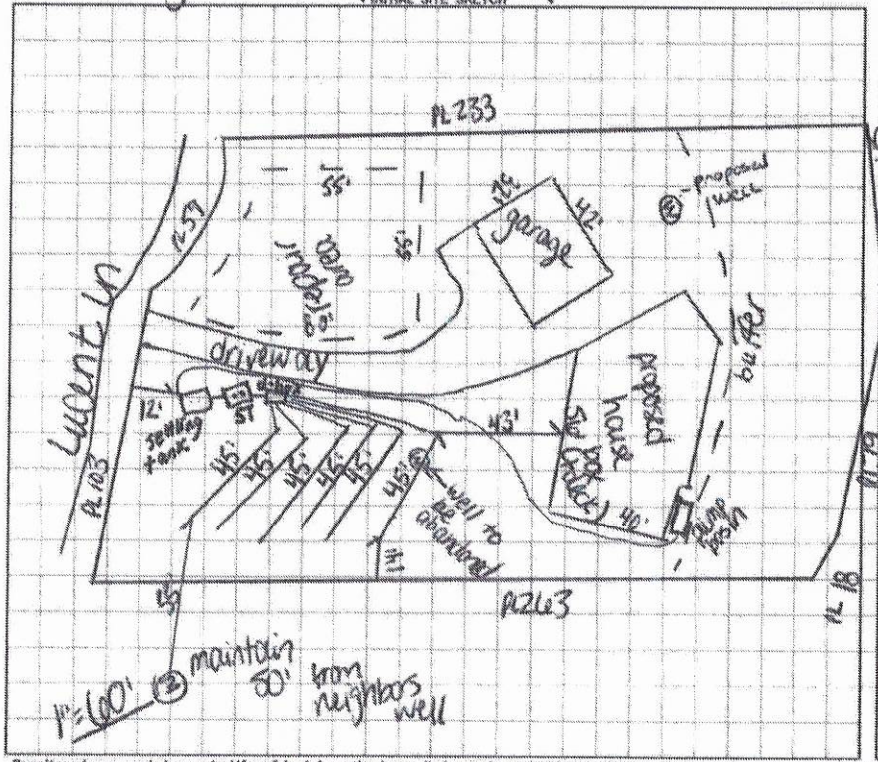
SUBDIVISION: CL+T SECTION: 6 LOT # 259 LOT AREA: .91 ac DESIGN FLOW: 480 gpd L.T.A.R.: .3

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Septic Tank 1000 (gal) | STB 760 | Date 3-21-20 | ☒ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI | | ☒ Residence | No. Bedrooms 4 | Water Supply |
| Settling Tank 1000 (gal) | PT 760 | Date 3-28-20 | System Description: PPBPS | | ☐ Business | No. Persons 8 | ☒ Private |
| Pump Make | Model | Serial # | Repair System Description: CPPBPS | | ☐ Other | No. Employees | ☐ Public |
| # Nitrification Fields 1 | # Lines 10 | Linear Ft. 270' | Maintenance Agreement Required: ☐ YES ☒ NO | | ☐ Slab | ☒ Crawl Space | ☐ Community |
| Trench Width 24"-36" | Trench Bottom Depth | 36" max | Gravel Depth — | ☒ GRAVITY ☐ PRESSURE | ☐ Basement w/ plumbing | ☐ Basement w/o plumbing | |

Comments / Conditions: Install 6 45' lines on contour. Install a sewage or grinder pump for house that pumps up to a setting tank, & spills into septic tank.

* old well must be abandoned prior to issuance of AC

INITIAL SITE SKETCH




AS BUILT SKETCH

- L1 installed ~38' → OK per soil notes
- lines installed as permitted
- L1 71' off neighbors well

*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 plot 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: C Wayne Gibson - Sons

IMPROVEMENT PERMIT by: Carla C. Cave Date: 9-9-19 OPERATION PERMIT by: Carla C. Nicks Date: 5-15-20

AUTHORIZATION TO CONSTRUCT by: Carla C. Cave Date: 9-13-19 Existing System Inspected by: _____ Date: _____

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inpsector to confirm your inspection time.

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

Sheet 1 of 1
PROPERTY ID #: 4614651342
COUNTY: Iredell

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

OWNER: Allan Hoppe
ADDRESS: 1627 Wellerby Way
PROPOSED FACILITY: 4BR
LOCATION OF SITE: 172 Lucentin
PROPOSED DESIGN FLOW (.1949): 420gpd
APPLICATION DATE: 8-15-19
DATE EVALUATED: 8-30-19
PROPERTY SIZE: .91 ac
PROPERTY RECORDED: Y

WATER SUPPLY: ☐ Private ☐ Public ☑ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☑ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE | SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY | OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 R | L 10% | 0-5 | GR SCL | Fr ss sp smp | – | 50" | – | – | PS .3 |
| | | 5-31 | SBK C | Fr ss sp smp | | | | | |
| | | 31-50 | WSBK CL | Fr ss sp smp | | | | | |
| 2 R | L 10% | 0-4 | GR SCL | Fr ss sp smp | few Y/DS/ mg inc | 48" | – | – | PS .25-.3 |
| | | 4-21 | SBK C | Fr ss sp smp | | | | | |
| | | 21-48 | WSBK CL | Fr ss sp smp | | | | | |
| 3 I | L 12% | 0-10 | SBK SCL | Fr ss sp smp | – | 48" | – | – | PS .3 |
| | | 10-29 | SBK C | Fr ss sp smp | | | | | |
| | | 29-48 | WSBK CL | Fi ss sp smp | | | | | |
| 4 I | L 12% | 0-10 | SBK SCL | Fr ss sp smp | – | 50" | – | – | PS .3 |
| | | 10-27 | SBK C | Fr ss sp smp | | | | | |
| | | 27-50 | WSBK CL | Fi ss sp smp | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | 270' | 270' |
| System Type(s) | PBBPS | UPBBPS |
| Site LTAR | .3 | .3 |

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: C. Cave
OTHER(S) PRESENT: N/A

COMMENTS:

# LEGEND

***use the following standard abbreviations***

| LANDSCAPE POSITION | GROUP | SOIL TEXTURE | CONVENTIONAL .1955 LTAR* | LPP .1957 LTAR* | MINERALOGY/ CONSISTENCE | STRUCTURE |
|---|---|---|---|---|---|---|
| CC (Concave Slope)<br>CV (Convex Slope)<br>D (Drainage Way)<br>DS (Debris Slump)<br>FP (Flood Plain)<br>FS (Foot Slope)<br>H (Head Slope)<br>L (Linear Slope)<br>N (Nose Slope)<br>R (Ridge)<br>S (Shoulder Slope)<br>T (Terrace) | I | S (Sand)<br>LS (Loamy Sand) | 1.2 - 0.8 | 0.6 - 0.4 | SEXP (Slightly Expansive)<br>EXP (Expansive) | G (Single Grain)<br>M (Massive)<br>CR (Crumb)<br>GR (Granular)<br>SBK (Subangular Blocky)<br>ABK (Angular Blocky)<br>PL (Platy)<br>PR (Prismatic) |
| | II | SL (Sandy Loam)<br>L (Loam) | 0.8 - 0.6 | 0.4 - 0.3 | | |
| | III | Si (Silt)<br>SiCL (Silty Clay Loam)<br>CL (Clay Loam)<br>SCL (Sandy Clay Loam)<br>SiL (Silt Loam) | 0.6 - 0.3 | 0.3 - 0.15 | | |
| | IV | SC (Sandy Clay)<br>SiC (Silty Clay)<br>C (Clay) | 0.4 - 0.1 | 0.2 - 0.05 | | |
| | | O (Organic) | None | None | | |

| MOIST | WET |
|---|---|
| VFR (Very Friable) | NS (Non-sticky) |
| FR (Friable) | SS (Slightly Sticky) |
| FI (Firm) | S (Sticky) |
| VFI (Very Firm v. Very Sticky) | VS (Very Sticky) |
| 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.

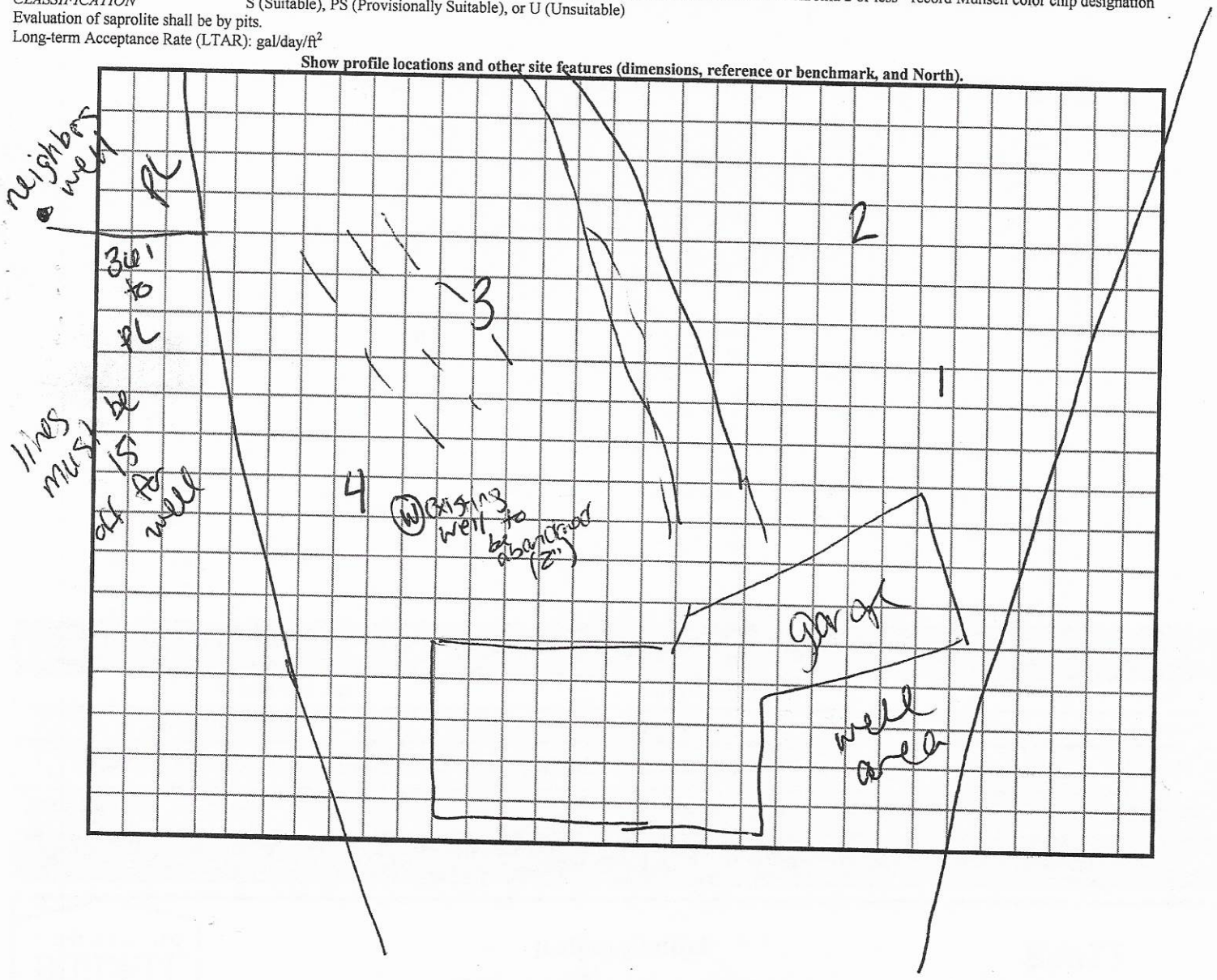
***NOTES***

| | |
|---|---|
| *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).**



* need clearer dimensions / labels on house-floor plans

1149

# IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*

247665
$500
$550

*(THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED - APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS)*

1. APPLICATION FOR: (✓) Improvement Permit ( ) Authorization To Construct ( ) Existing System Inspection

2. Page 2: *Site Plan Worksheet* Form MUST Accompany This Application
The following optional attachments may also be submitted: ( ) Survey Plat, Scaled no more than 1 Inch = 60 Feet
*Place check ( ) beside whichever is submitted if applicable* ( ) Custom Site Plan, Scaled no more than 1 Inch = 60 Feet

3. Applicant Information:

| Applicant Name | Mailing Address | Home Phone # | Alternate Phone # |
|---|---|---|---|
| Allan Hoppe | 16219 Weatherly Way | 704-949-0007 | 704-363-6759 |

| Owner Name | Mailing Address | Home Phone # | Alternate Phone # |
|---|---|---|---|
| Allan Hoppe | 16219 Weatherly Way | 704-949-0007 | 704-363-6759 |

4. Property Information:

| Street Address | Subdivision Name | Section/Phase and Lot Number |
|---|---|---|
| 172 Locent Ln. | | |

Driving Directions: Brawley Sch. Rd. to Tuskarora to Locent Ln.

5. RESIDENTIAL Site Development Information: *(Check or Complete ALL that apply)*

(✓) New, Single Family Residence
( ) New, Multi-Family Residence
( ) Expansion of Existing Septic System
( ) Repair To Failing Septic System due to _____
( ) Other _____

Maximum Number of Bedrooms 4
Maximum Number of Occupants 4
If Expansion, Current Number of Bedrooms ___

(✓) Crawl Space Foundation?
( ) Concrete Slab Foundation?
( ) Basement w/Plumbing?
( ) Basement w/out Plumbing?

IF Non-Residential Site Development: Type of Business
Square Footage of Building
Maximum Number of Employees
Maximum Number of Seats

Phase and Lot No.

6. Proposed Water Supply:

(✓) New Well ( ) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

7. Desired Septic System Type: *(You may rank in order of preference, if any)* ( ) EXISTING SYSTEM installed ____ *Year*

( ) Alternative (✓) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other _____

8. Please Answer The Following To The Best of Your Ability: ( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industry) to be generated?
( ) Yes (✓) No Is the site subject to approval by any other public agency?

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

9. Signature: A. Hoppe
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

8-15-19
DATE

# IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

## DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

*(Check and sign only ONE of the options below)*

1. * APPLICANT AND OWNER ARE THE SAME. * (Sign here) H. Allen Hopper Jr Roby M. Hopper

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative: *Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship*

In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:

Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form. If there are multiple property owners, then all property owners must sign the form that designates a legal representative.

By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

2. I, H. Allen Hopper Jr | Roby M. Hopper am the legal owner(s) of the property located at 177 Luders Ln, Mooresville, NC, identified as PIN (Parcel Identification Number) 4614951342.000 located in Iredell County, North Carolina.

I do hereby authorize (print legal representative/company name) Tim Young, Young Builders, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

H. Allen Hopper Jr Roby M. Hopper — Signature of Owner(s)

8/22/19 — Date


**Mooresville - Environmental Health**
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

**Statesville - Environmental Health**
adrienne.shea@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

## IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*

## *SITE PLAN WORKSHEET*

**SEE THE "SAMPLE SITE PLAN" BELOW. *INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!***

Place an (X) beside each item as you complete the site plan:

X Property Line measurements are clearly identified... ____ All proposed structures are indicated...

*SHOW: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site.*

X Front and side setbacks from property line... ____ Preferred driveway location and configuration, preferred well location...

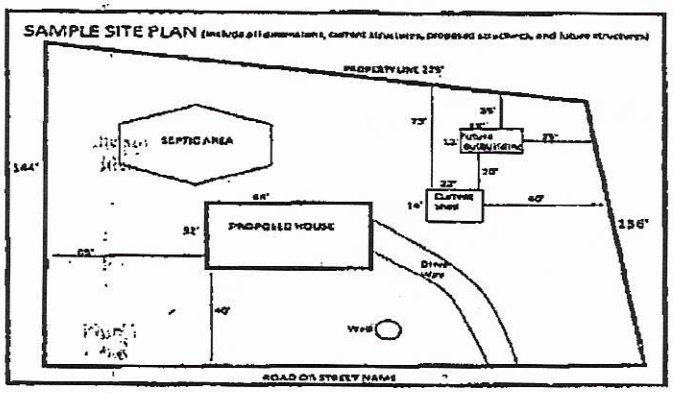
X Area you prefer your septic system to be placed... ____ North arrow, or other sufficient indicator of direction...

Circle N/A on the following if appropriate:

____ Location of septic systems and wells within 100' of your property... N/A

____ Location of easements and rights of ways on your property... N/A ____ Location of any designated wetlands on the property... N/A

SAMPLE SITE PLAN (include all dimensions, current structures, proposed structures, and future structures)




**USE THIS SPACE TO DRAW YOUR SITE PLAN**

Attached

**Signature:** [signature] 8-15-19

***REQUIRED*** property owner or owner's legal representative signature. **DATE**

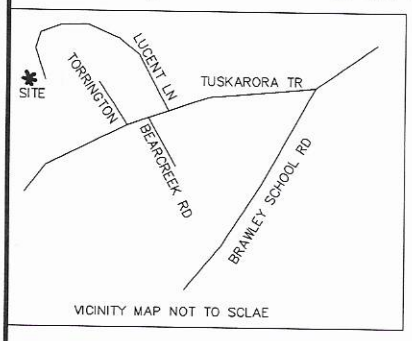
SITE PLAN
1" = 40'
New Well
50' setback
New Septic Area
Exist Septic to be removed
Existing well to be removed (abandoned)
Lucent Ln
Signature - OWNER
Date 8-15-19

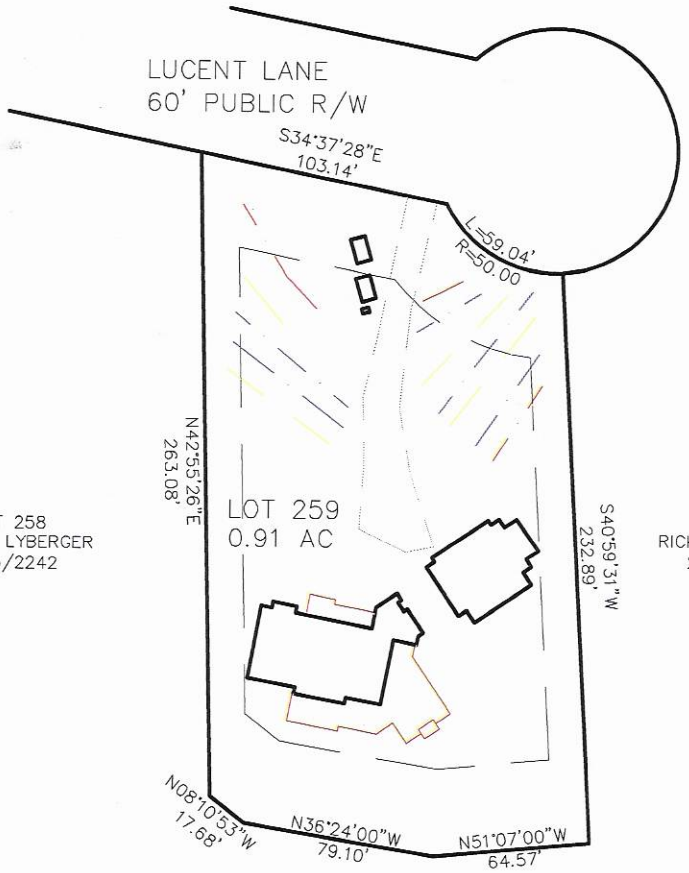
DOWELL & COMPANY, P. C.
ENGINEERING * SURVEYING * PLANNING
344 Rolling Hill Road Suite 103 * Mooresville , N.C. 28117
(704) 660-9697 (704) 664-5177 Fax Email: leland7896@aol.com

I, certify that this map was drawn under my supervision from an actual survey made under my supervision recorded in deed book 9750, page 795, and/or plat book 34, page 30, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina Chapter 89C. my hand and seal on the 1, day of SEPTEMBER, A.D. 20 19.

Douglas L Dowell Jr
DOUGLAS L. DOWELL, JR., PLS L-3508

NORTH CAROLINA PROFESSIONAL SEAL L-3508 LAND SURVEYOR DOUGLAS L. DOWELL JR.



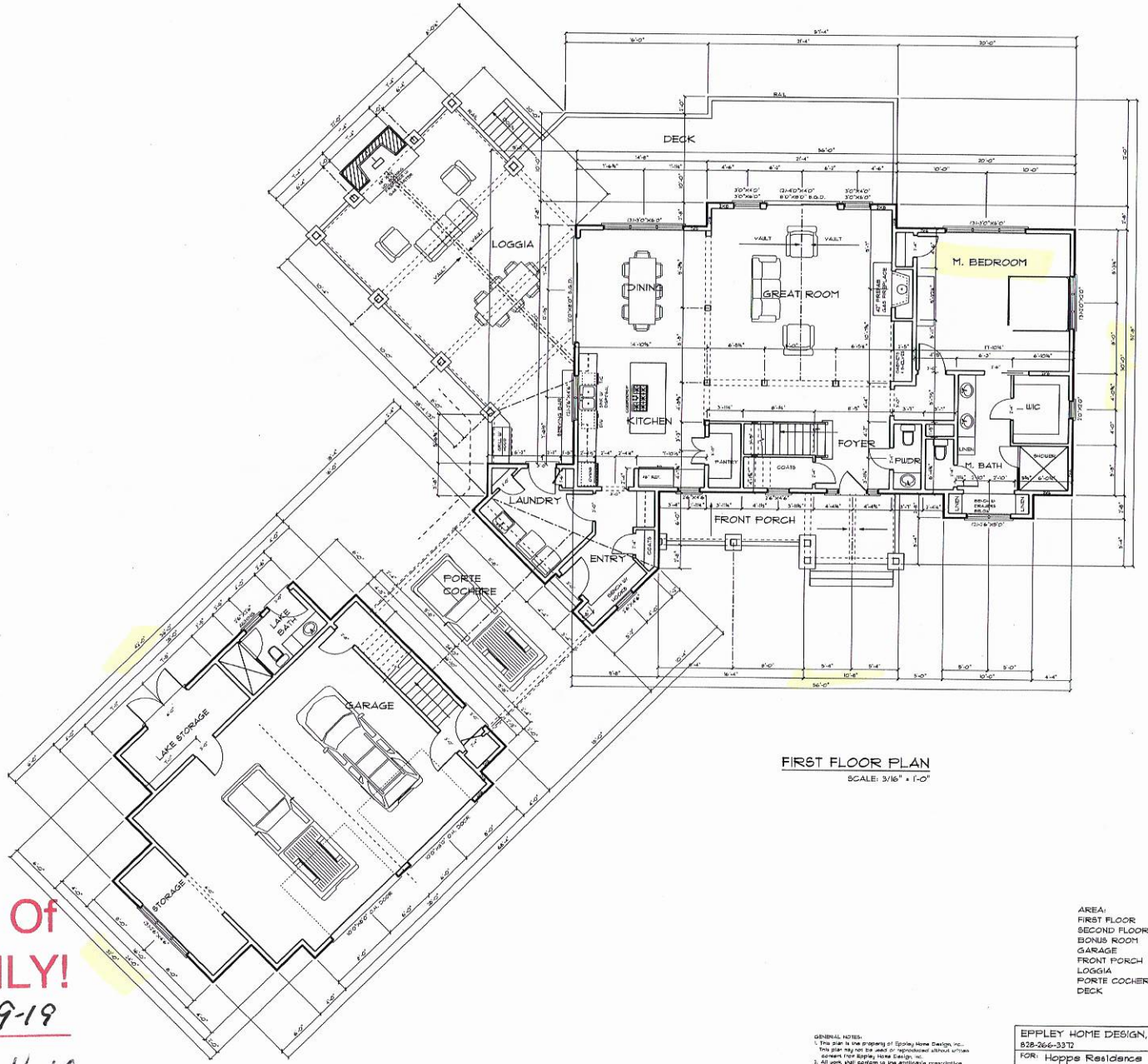




LAKE NORMAN

172 LUCENT LANE
PLOT PLAN
OF
LOT 259 CL&T
LEMLEY TWSP., IREDELL CO., NC
HOPPE RESIDENCE

SCALE 1" = 60'
ACQUIRED BY:

FIELD BOOK:
FILE: 19215 J YOUNG LOT 259 CLT
TAX MAP NO: 4614-95-1342




FIRST FLOOR PLAN
SCALE: 3/16" = 1'-0"

Acknowledgement Of
Plans Submittal ONLY!

Carlel Cave Date 9-9-19

Date 9-11-19

| AREA: | |
|---|---|
| FIRST FLOOR | 1934 S.F. |
| SECOND FLOOR | 1087 S.F. |
| BONUS ROOM | 754 S.F. |
| GARAGE | 1184 S.F. |
| FRONT PORCH | 164 S.F. |
| LOGGIA | 689 S.F. |
| PORTE COCHERE | 309 S.F. |
| DECK | 491 S.F. |

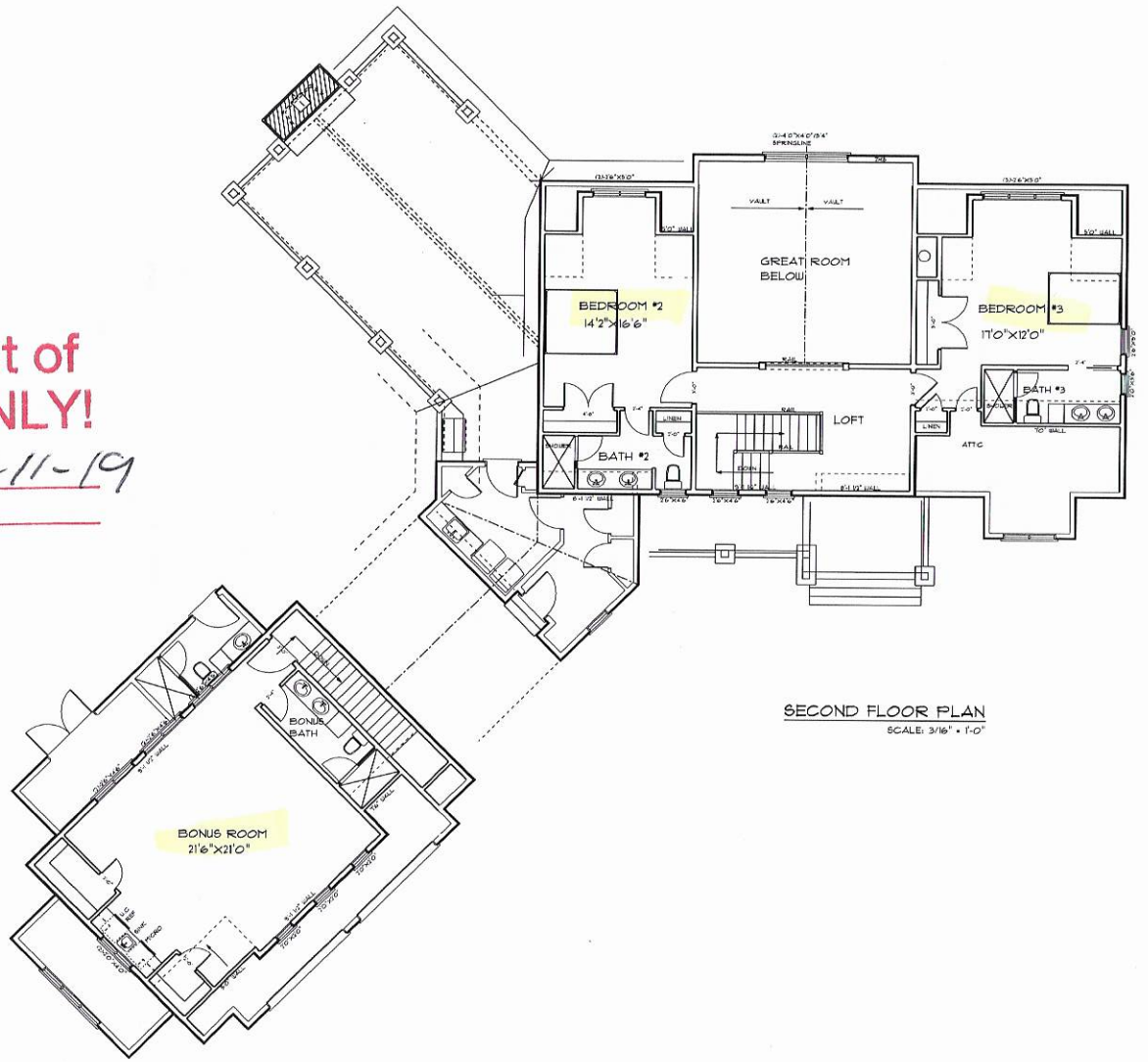
GENERAL NOTES:
1. This plan is the property of Eppley Home Design, Inc... This plan may not be used or reproduced without written consent from Eppley Home Design, Inc.
2. All work shall conform to the applicable prescriptive requirements of the North Carolina State Building Code.
3. All contractors to check and verify all dimensions and materials prior to starting construction.

| EPPLEY HOME DESIGN, INC. | 6/3/19 7/2/19 8/23/19 |
|---|---|
| 828-266-3372 | |
| FOR: Hoppe Residence | |
| 127 Lucent Lane, Mooresville, NC | |
| FIRST FLOOR PLAN | |

Acknowledgement of
Plans Submittal ONLY!

Date 9-11-19

Date




SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"

GENERAL NOTES:
1. This plan is the property of Eppley Home Design, Inc. This plan may not be used or reproduced without written consent from Eppley Home Design, Inc.
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| | |
|---|---|
| EPPLEY HOME DESIGN, INC.<br>828-266-3372 | 6/3/19<br>7/2/19<br>8/23/19 |
| FOR: Hoppe Residence<br>127 Lucent Lane, Mooresville, NC | |
| SECOND FLOOR PLAN | |

# IREDELL COUNTY

PO Box 788
349 North Center St.
Statesville, NC 28677

| APPLICATION NUMBER |
|---|
| 247665 |
| Issue Date: 08/19/2019 |

**ZONING PERMIT**
Residential

FILE COPY

| Parcel Number | Street Address | Jurisdiction |
|---|---|---|
| 4614951342.000 | 172 LUCENT LANE, MOORESVILLE, NC | IREDELL COUNTY |

| Owner Information | Applicant Information |
|---|---|
| Owner: HOPPE HOWARD A JR+ROBYN M | Applicant: HOPPE HOWARD A JR+ROBYN |
| Address: 4024 BLACK SYCAMORE DR | Address: 4024 BLACK SYCAMORE DR |
| CHARLOTTE, NC 28226 | CHARLOTTE, NC 28226 |
| Phone: | Phone: |

| Use Requested | Zone Code |
|---|---|
| SFD | R20 |

| Lot Acreage | F Setback | B Setback | L Setback | R Setback | Watershed | Flood Zone |
|---|---|---|---|---|---|---|
| .910 | | | | | CACL | AE |

**Remarks:**

PAID Online 8-19-19 MH

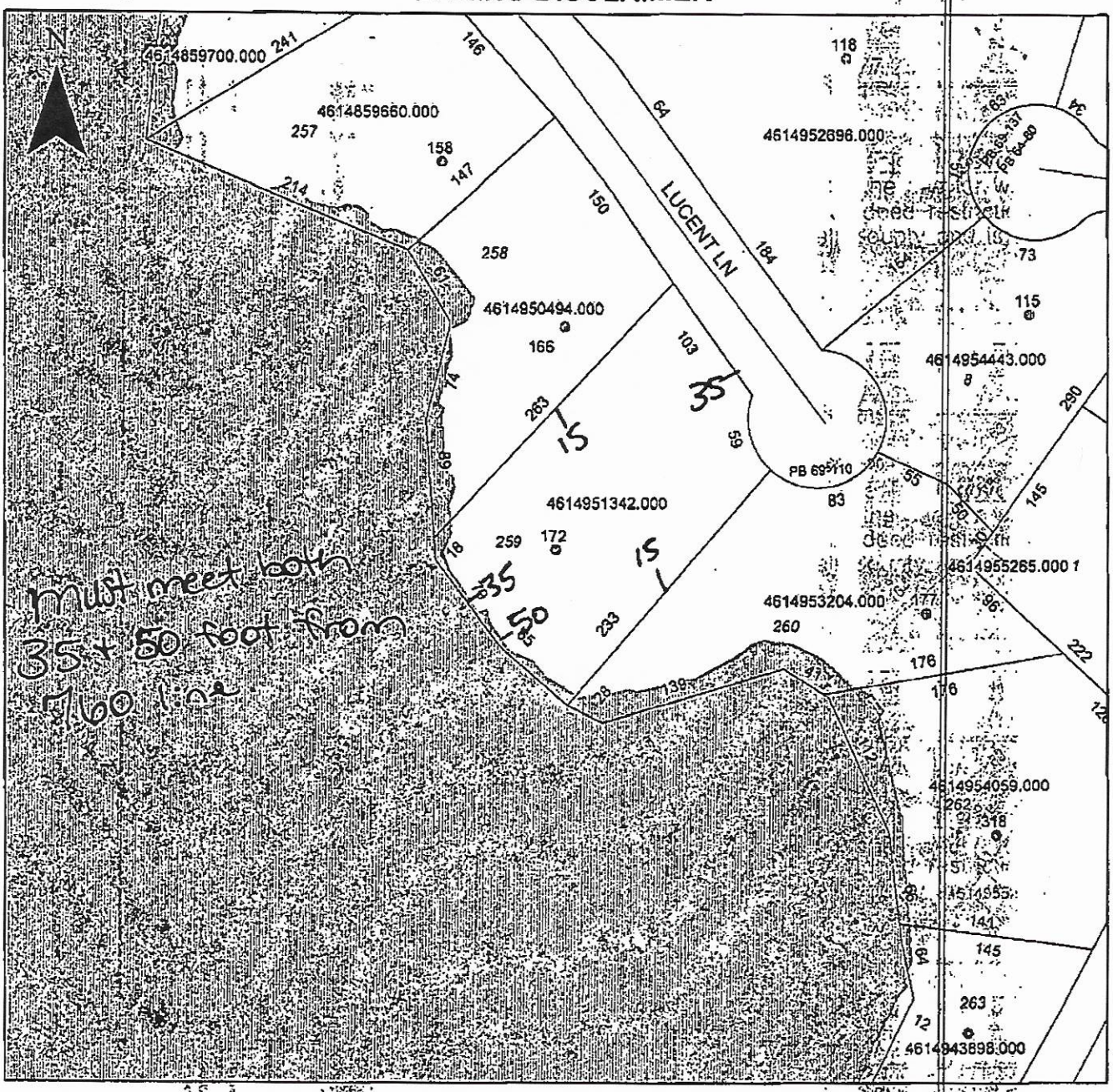
The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. The applicant further acknowledges that enforcement of deed restrictions, plat conditions and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

SEE ATTACHED

Applicant: _____ Date: _____

| Permit Number | 189398 | TOTAL FEES: | $ 77.25 |
|---|---|---|---|

# ZONING DISCLAIMER




Property Address 172 Lucent Lane

The applicant certifies that there are no deed restrictions, contractual agreements or governmental regulations of any kind that interfere with or prohibit the use of the property or the use for which this permit is requested. Applicant further acknowledges that the enforcement of deed restrictions, plat conditions, and other contractual agreements will not be undertaken by Iredell County and is the sole responsibility of the affected parties.

Applicant

Date