Supervisor/Administrative Professional Checklist

New Septic [X] New Well [ ] Use Existing [ ] Alteration [ ] Modified Plot Plan [ ]

New Septic Fees Paid

IP ($250.00) LE 8/15/17 ____ Initials/Date

CA ($200.00) LE 9/25/17 ____ Initials/Date

OP ($200.00) LE 9/25/17 ____ Initials/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid) _____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. [ ] Reviewed [✓] JAM 9-25-17

This site is served by septic and well. Verify each is complete before final hold is released. [✓]

Septic file completed. [✓] JAM _____ Well file completed. [ ] _____

Send permit for signature. [✓] Signature received. [✓] _____

This septic system requires a certified operator contract before final hold is released. [ ]

Certified operator contract is on file. [ ] _____

Groundwater & Wastewater Services: Septic Project File & D

GWS File #:	9754B
WASPS App #:	9011
Primary ES assigned to project:	Jeremy Michelone
Secondary ES assigned to project:	
Project Type:	New System
Site Evaluation Information: .1939(a)(1) - Topography and Landscape Position Recorded?	Yes
Site Evaluation Information: .1940(a-g) - Slope % Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Texture Class Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Structure Type Recorded?	Yes
Site Evaluation Information: .1939 (a)(2) - Consistence Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Mineralogy Recorded?	Yes
Site Evaluation Information: .1939(a)(3) - Soil Wetness Condition Recorded?	Yes
Site Evaluation Information: .1939(a)(4) - Soil Depth to Rock or Parent Material Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(5) - Depth to Restrictive Horizons Recorded when Encountered?	N/A
Site Evaluation Information: .1939(a)(6) - Sufficient Available Space Recorded?	Yes
Site Evaluation Information: .1937(m) - Are the Profile Locations Shown?	Yes
Site Evaluation Information: .1939(a) - Are the S/PS Profiles in system & in repair area?	Yes
Site Evaluation Information: .1939(d), .1955, .1956, .1957 - LTAR	Yes
Improvement Permit/Construction Authorization: .1937(g), 130A-336(a) - Proposed System Type stated - Initial	Yes
Improvement Permit/Construction Authorization: .1945(b) - Proposed System Type stated - Repair	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(3) - System location identifiable by setbacks - Initial	Yes
Improvement Permit/Construction Authorization: .1937(g), .1945(b) - System components shown - Initial	Yes
Information Permit/Construction Authorization: .1945(b) - Repair area shown	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Does System design match facility, flow & WW characteristics?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is System design consistent with soil/site conditions?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is the System located in the approved area?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Number of Bedrooms, employees, seats, etc. indicated?	Yes
Improvement Permit/Construction Authorization: .1937 (g) - Trench depth correct?	Yes
Improvement Permit/Construction Authorization: .1937(g) - Trench width correct?	Yes
Improvement Permit/Construction Authorization: .19379(g) - Trench length correct?	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(1) - Proposed/existing well shown?	Yes

Improvement Permit/Construction Authorization: 130A-336(a)(1) - Property line lengths shown?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Facility/appurtenance setbacks shown from fixed points?	Yes
Corrections/modifications needed?	No
Comments:	
IA issued date:	
OP Issued date:	3/29/2018
Review performed by:	Jeremy Michael
Date performed:	9/22/2017

Created at 9/22/2017 8:26 AM by Michael, Jeremy
Last modified at 9/22/2017 8:26 AM by Michael, Jeremy

Close

X42064 9799B #099

15 AUG '17 AM 8:35

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. **SEPTIC / TYPE APPLICATION:** ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. **WELL / TYPE APPLICATION:** ○ N/A NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. **JOB LOCATION INFORMATION:**
TAX PARCEL NUMBER: 01126137
STREET ADDRESS: 14535 Ramah Church Rd
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION NAME: n/a
LOT #: 3 LOT SIZE (acres): 4.60
TOWNSHIP:
○ MECKLENBURG ○ CORNELIUS ◉ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. **BUILDING INFORMATION:**
BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER
HEATED SQUARE FOOTAGE: 5,550
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
◉ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. **IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION:** ☑ N/A
NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. **WATER SUPPLY:** ○ MUNICIPAL ◉ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. **PROPOSED USE OF WELL:** ○ N/A ○ IRRIGATION ◉ POTABLE (DRINKING WATER) ○ OTHER _____

8. **PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE** *(1-MOST DESIRED 5-LEAST DESIRED):*
☐ N/A ☐ ANY TYPE ☑ CONVENTIONAL ☑ ACCEPTED ☑ INNOVATIVE ☑ ALTERNATIVE ☐ OTHER _____

8A. **RANK:** 1 2 3 4 ____

9. **DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.**

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ◉ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ◉ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ◉ NO	JURISDICTIONAL WETLANDS	○ YES ◉ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ◉ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ◉ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ◉ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ◉ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ◉ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ◉ NO
WASTE STORAGE	○ YES ◉ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ◉ NO

10. **WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?** _____ ☑ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** 6/1/18 ☐ N/A

12. **PROPERTY OWNER:**
NAME: Chris Landreth
ADDRESS: 14625 Harvington Dr
CITY: Huntersville
STATE: NC ZIP: 28078
WORK PHONE: _____
MOBILE PHONE: (704) 443-1653
FAX: (704) 399-5865
E-MAIL: chrislandreth@strmechanical.com

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**
NAME: Mark Morgan
ADDRESS: PO Box 1801
CITY: Denver
STATE: NC ZIP: 28037
WORK PHONE: _____
MOBILE PHONE: (704) 582-3818
FAX: (866) 999-6921
E-MAIL: mark@rmorganhomes.com

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 980-314-1680, FAX: 704-336-6894
Email: Wellreg@MecklenburgCountyNC.gov

Revised on: 4/20/17

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. 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. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring. RMM (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. 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. The permit is valid for a period of twelve (12) months from the date of issuance. RMM (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

R. Mark Morgan — Property Owner's or Owner's Legal Representative Signature

8/15/17 — Date

OFFICE USE ONLY

O SURVEY PLAT TO SCALE SUBMITTED O SCALED SITE PLAN SUBMITTED O UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 980-314-1680, FAX: 704-336-6894
Email: Wellreg@MecklenburgCountyNC.gov

File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 14535 Ramah Church RD

Tax Parcel #: 01126138

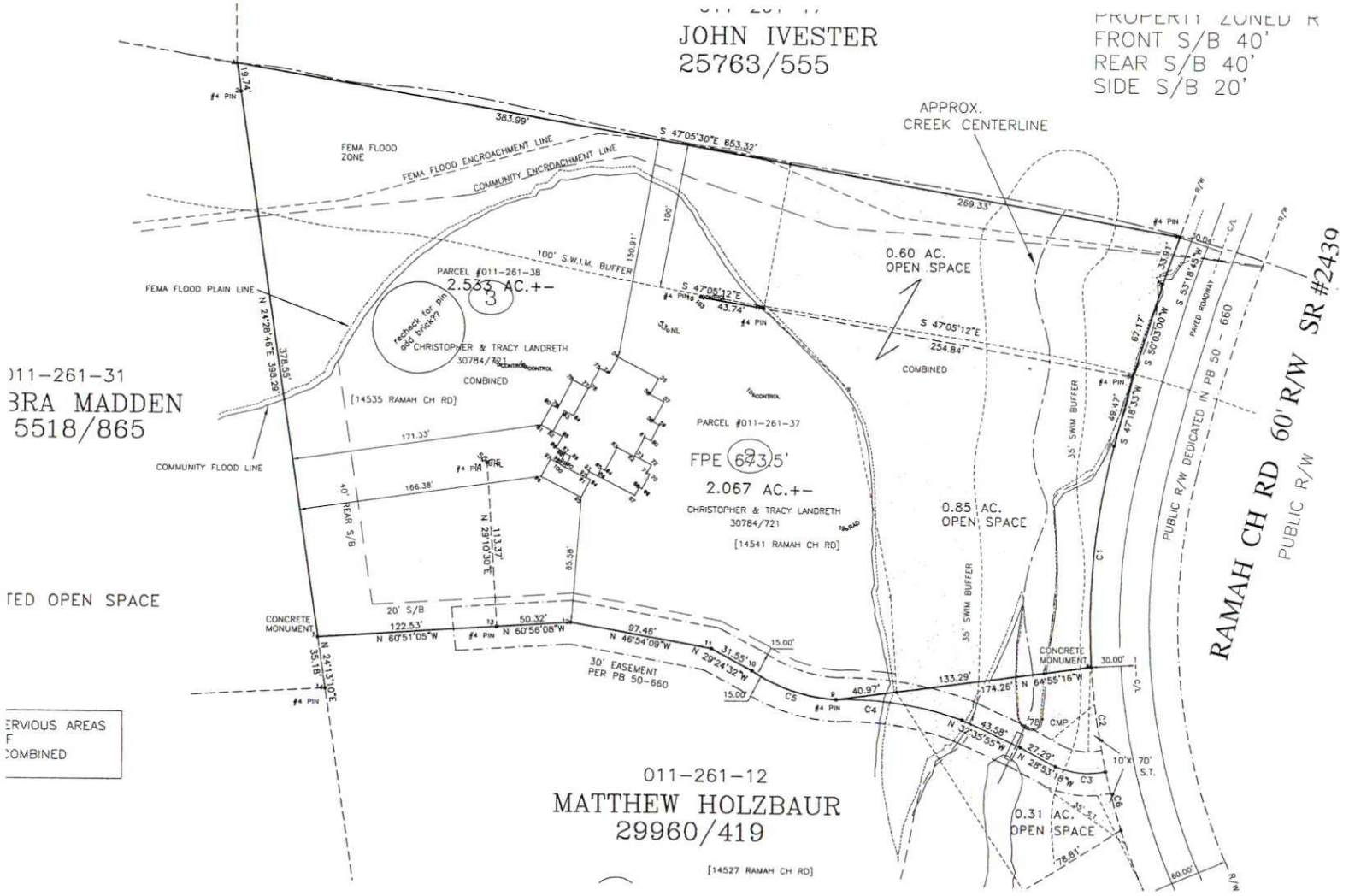
Subdivision Name: n/a

Lot #: 3



Property Owner's or Owner's Legal Representative Signature

8/15/17
Date


JOHN IVESTER
25763/555
PROPERTY ZONED R
FRONT S/B 40'
REAR S/B 40'
SIDE S/B 20'
APPROX.
CREEK CENTERLINE
FEMA FLOOD
ZONE
FEMA FLOOD ENCROACHMENT LINE
COMMUNITY ENCROACHMENT LINE
100' S.W.I.M. BUFFER
PARCEL #011-261-38
2.533 AC.+-
recheck for pin add brick?
CHRISTOPHER & TRACY LANDRETH
30784/721
COMBINED
[14535 RAMAH CH RD]
FEMA FLOOD PLAIN LINE
COMMUNITY FLOOD LINE
011-261-31
BRA MADDEN
5518/865
TED OPEN SPACE
ERVIOUS AREAS
F
COMBINED
PARCEL #011-261-37
FPE 643.5'
2.067 AC.+-
CHRISTOPHER & TRACY LANDRETH
30784/721
[14541 RAMAH CH RD]
0.60 AC.
OPEN SPACE
0.85 AC.
OPEN SPACE
0.31 AC.
OPEN SPACE
35' SWIM BUFFER
40' REAR S/B
20' S/B
30' EASEMENT
PER PB 50-660
CONCRETE
MONUMENT
#4 PIN
78" CMP
10'X 70'
S.T.
011-261-12
MATTHEW HOLZBAUR
29960/419
[14527 RAMAH CH RD]
PUBLIC R/W DEDICATED IN PB 50 - 660
RAMAH CH RD 60' R/W SR #2430
PUBLIC R/W

MECKLENBURG COUNTY
Health Department

E. Winters Mabry, MD
Director

(704) 432-3199

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

Your signature below confirms the following:

1. The information on the application is true, complete and accurate.
2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.
3. I acknowledge that Mark Morgan is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at

14535 Ramah Church Rd. Huntsville, NC
Number Street Town
(Or Parcel Number)

Christopher Landreth
Property Owner (print name)

Property Owner (signature)

3-15-17
Date

Framing Notes:

1. Main floor framed w/ 11⅞" studs (10 ft walls). Upperf loor framed with 105" studs (9 ft walls)

2. All main floor header heights are 96" u.n.o.

3. All dimensional lumber headers and girders over 4'-6" clear span are constructed from Weyerhaeuser iLevel Framer Series lumber, and are sized such that actual loads are less than published allowable loads. Typical Header (TYP Hdr) = dbl 2x10 SYP w/ 7/16" OSB u.n.o. Nail multiple member built-up girders with two rows of 16d nails staggered at 24" oc, 2" down from top and 2" up from bottom.

4. All main floor header heights are 96" uno.

5. Where partitions fall between floor joists or trusses, place double joists (DJ) as shown.

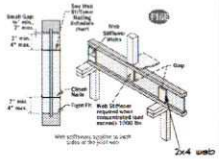
6. Number of jack studs at point load locations and as shown on openings > 4'.

7. The lowest part of the clear opening of all operable windows located more than 72" above the finished grade (or above the surface below), shall be a minimum of 24" above the finished floor of the room in which the window is located; or, such window shall have a restricted opening not permitting the opening to allow passage of a four inch diameter sphere.

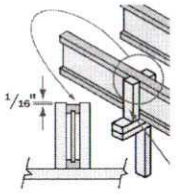
8. See separate sheets for Braced Wall Panel details.

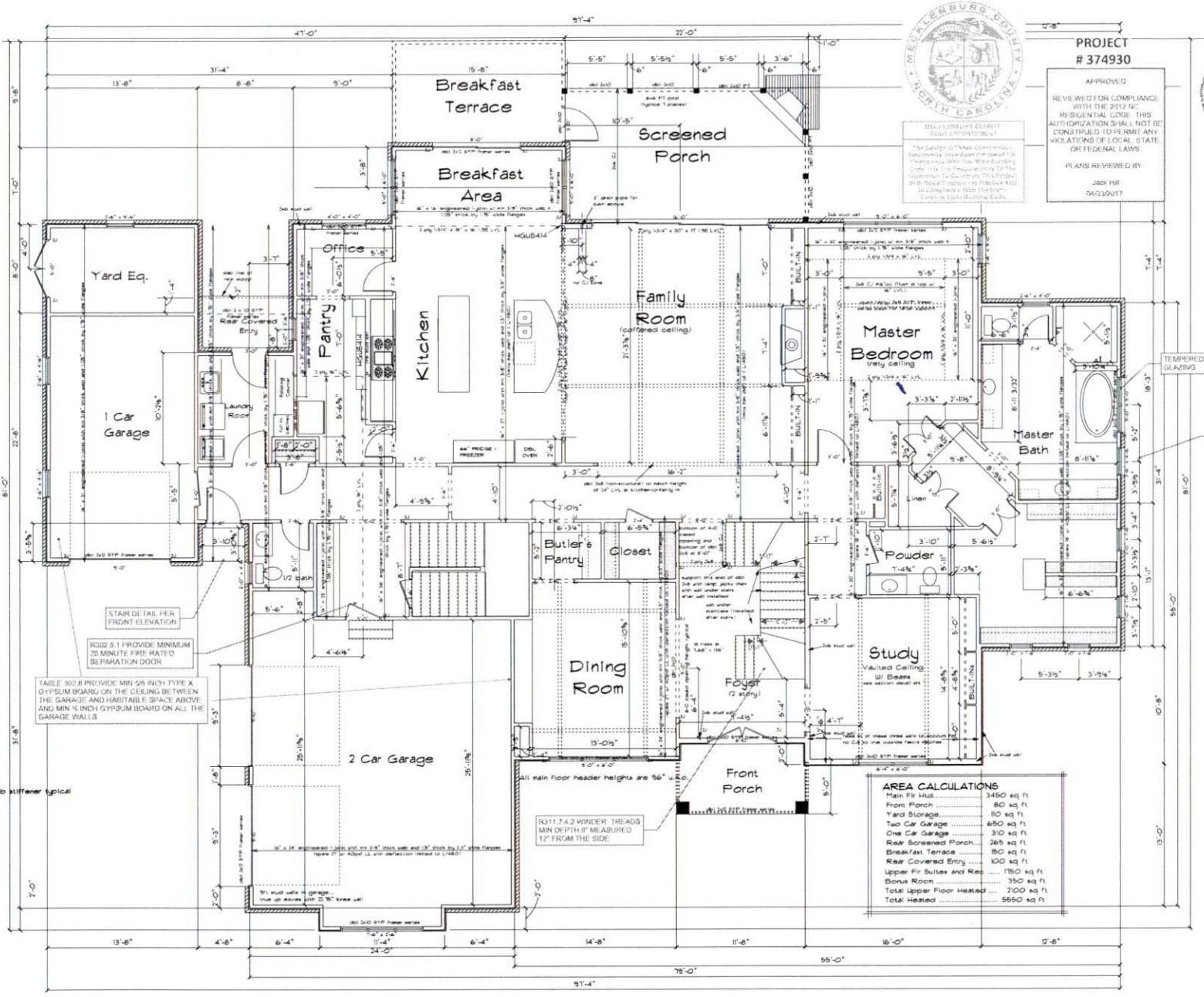
9. Connect 2 ply LVL with three rows of 10d (0.128" x 3") nails at 8" oc from each side.

10. Web stiffeners required as shown below. At bearing points, web stiffeners may be replaced with squash blocks, also as shown below, or with I-joist blocking



2x4 web stiffener typical





AREA CALCULATIONS

Main Flr Hdt.	3480 sq ft
Front Porch	80 sq ft
Yard Storage	110 sq ft
Two Car Garage	650 sq ft
One Car Garage	310 sq ft
Rear Screened Porch	265 sq ft
Breakfast Terrace	150 sq ft
Rear Covered Entry	100 sq ft
Upper Flr Suites and Rec	1150 sq ft
Bonus Room	350 sq ft
Total Upper Floor Heated	2100 sq ft
Total Heated	5550 sq ft

PROJECT
374930

APPROVED
REVIEWED FOR COMPLIANCE WITH THE 2012 NC RESIDENTIAL CODE. THIS AUTHORIZATION SHALL NOT BE CONSTRUED TO PERMIT ANY VIOLATIONS OF LOCAL, STATE OR FEDERAL LAWS.
PLANS REVIEWED BY:
Jack Hill
04/03/2017

MECKLENBURG COUNTY NORTH CAROLINA

ENGINEER:
ROBERT L. MORGAN JR.
704-607-4438
7041 Pebble Bay Dr
Denver NC 28037

R. MORGAN HOMES
MARK MORGAN
704-562-3818
mark@rmorganhomes.com
P.O. BOX 1801
Denver, NC 28037

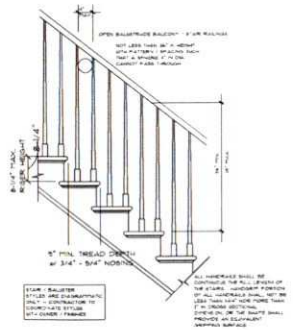
Chris & Tracy Landreth Residence

JOB ADDRESS:
Ramah Church Rd
Huntersville, NC 28078

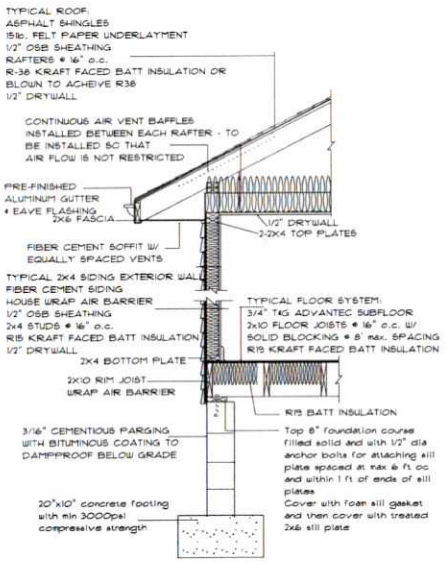
SCALE:
1/4" = 1'

SHEET NO.
2

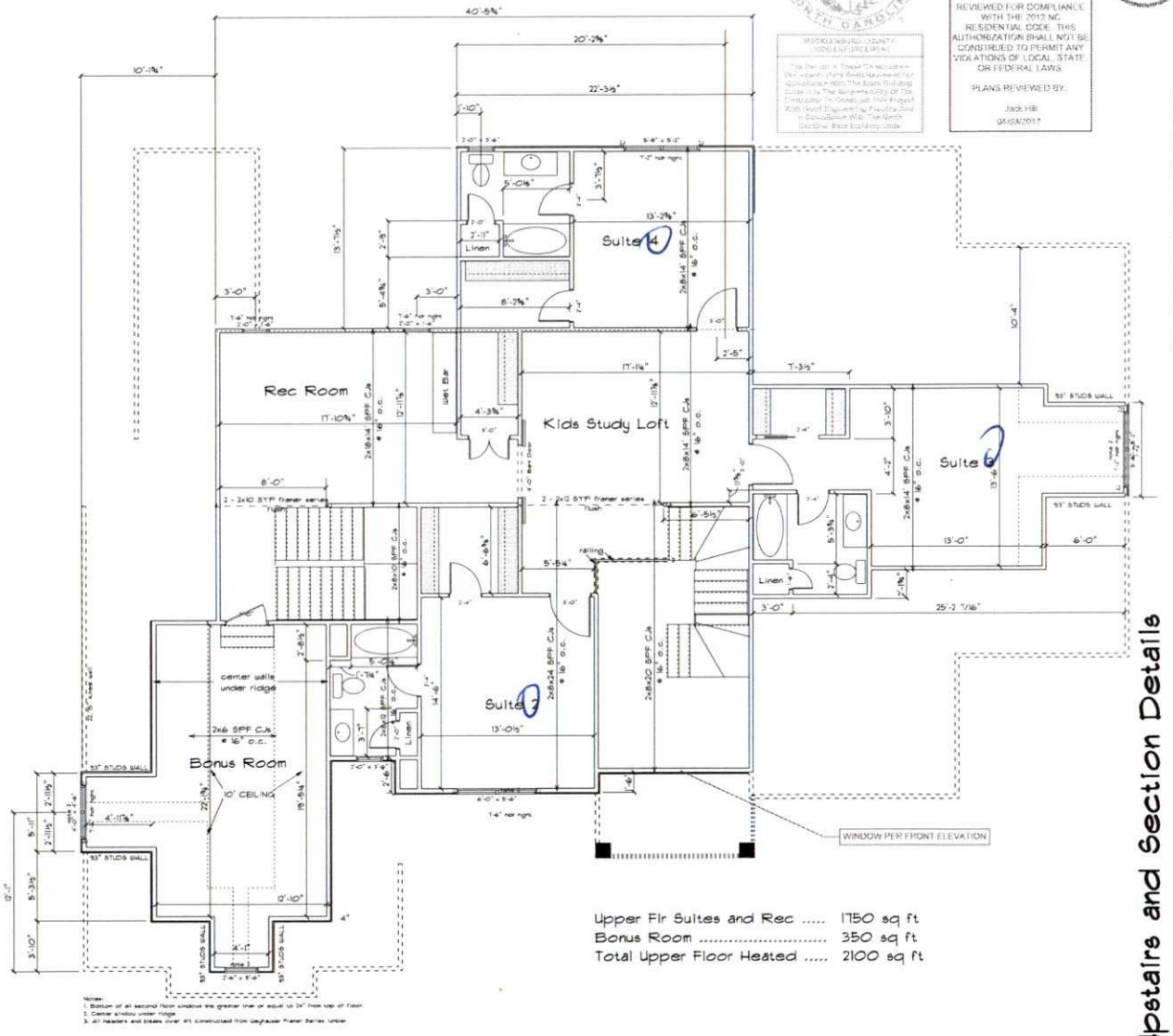
Main Floor



STAIR RAILING SECTION



EXTERIOR WALL SECTION



Upper Flr Suites and Rec ..... 1750 sq ft
Bonus Room ..... 350 sq ft
Total Upper Floor Heated ..... 2100 sq ft

Notes:
1. Bottom of all second floor windows are greater than or equal to 24" from top of floor.
2. Center window under ridge.
3. All headers and beams over 6ft constructed from Weyhauser Framer Series Timber.

MECKLENBURG COUNTY NORTH CAROLINA

PROJECT
374930

APPROVED
REVIEWED FOR COMPLIANCE WITH THE 2012 NC RESIDENTIAL CODE. THIS AUTHORIZATION SHALL NOT BE CONSTRUED TO PERMIT ANY VIOLATIONS OF LOCAL, STATE OR FEDERAL LAWS.
PLANS REVIEWED BY:
Zack Hill
03/03/2017

SEA 11298 ROBERT L. MORGAN JR. 03.17.17

ENGINEER:
ROBERT L. MORGAN JR.
704-601-4438
7041 Pebble Bay Dr
Denver NC 28037

R. MORGAN HOMES
MARK MORGAN
704-582-3818
mark@rmorganhomes.com
P.O. BOX 1801
Denver, NC 28037

Upstairs and Section Details

Chris & Tracy Landreth Residence

JOB ADDRESS:
Ramah Church Rd
Huntersville, NC 28078

SCALE:
1/4" = 1'

SHEET NO.
3

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	08/15/17	**Amount:**	250.00
Receipt #:	107090	**Tendered:**	250.00
Check / Auth #:	CHARGE	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: X42064
Contractor: R.MORGAN HOMES LLC
Attn:
Address: PO BOX 1801
Address:
City/State/Zip: DENVER, NC 28037

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 14535 RAMAH CHURCH RD		1	250.00	250.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
250.00					

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 09/25/17
Receipt #: 107524
Check / Auth #: CHARGE
Received By: ELLISLW

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: X42064
Contractor: R.MORGAN HOMES LLC
Attn:
Address: PO BOX 1801
Address:
City/State/Zip: DENVER, NC 28037

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Septic Operational Permit 14535 RAMAH CHURCH ROAD		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
200.00					

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 09/25/17
Receipt #: 107525
Check / Auth #: CHARGE
Received By: ELLISLW

Amount: 200.00
Tendered: 200.00
Returned: 0.00

Account Information

Account #: X42064
Contractor: R.MORGAN HOMES LLC
Attn:
Address: PO BOX 1801
Address:
City/State/Zip: DENVER, NC 28037

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Septic Construction Authorizat 14535 RAMAH CHURCH ROAD		1	200.00	200.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
400.00					

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 3
Property ID: 011-261-37
Lot #: 3
File #: 9799B
AppID: 9099

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Chris Landreth
Address: 14625 Harvington Dr, Huntersville, NC 28078
Proposed Facility: 4 Bedroom House
Design Flow (.1949): 480 GPD
Location of Site: 14535 Ramah Church Rd, Huntersville, NC 28078
Water Supply: [ ] Public [X] Individual [X] Well [ ] Spring [ ] Municipal
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Mark Morgan
Date Evaluated: 8/18/2017
Property Size: 4.6 ac
Property Recorded: Unknown

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit #1	LS 9%	0 - 7	gr SL	SS SP FR SEXP	>65"	34	PS	NA	SCL soil inclusions 34 - 64"	PS IV 0.25	Install at 36"
		7 - 22	sbk SC	S P FI SEXP							
		22 - 34	sbk/abk SCL	SS SP FI SEXP							
		34 - 65	mass SL Sap	SS SP FI/FR SEXP							
Pit #2	LS 9%	0 - 5	gr SL	SS SP FR SEXP	2 chroma at 23"	39	NA	NA		US	NA
		5 - 20	sbk C	S P FR SEXP							
		20 - 39	abk/platy SC	S P FR SEXP							
Pit #3	LS 8%	0 - 3	gr SL	SS SP FR SEXP	>63"	26	PS	NA	C & SCL inclusions 26 - 63"	PS IV 0.25	Install at 36"
		3 - 19	abk C	S P FR SEXP							
		19 - 26	sbk/abk SCL	SS SP FR SEXP							
		26 - 63	mass L/SL Sap	SS SP FI/FR SEXP							
Pit #4	LS 9%	0 - 11	gr SL	SS SP FR SEXP	>57"	57	PS	NA	SL saprolite inclusions 34 - 57"	PS IV 0.225	Install at 36"
		11 - 23	gr SCL	SS SP FR SEXP							
		23 - 45	sbk C	S P FI SEXP							
		45 - 57	sbk/abk SCL	SS SP FI SEXP							
Pit #5	LS 9%	0 - 10	gr SL	SS SP FR SEXP	>45"	45	NA	NA	SL saprolite inclusions 34 - 45"	PS IV 0.225	19"
		10 - 20	gr SCL	SS SP FR SEXP							
		20 - 34	sbk C	S P FI SEXP							
		34 - 45	mass C	S VP VFI EXP							
Pit #6	LS 9%	0 - 12	gr SL	SS SP FR SEXP	>54"	54	NA	NA	SL saprolite inclusions 24 - 54"	PS IV 0.225	Install at 36"
		12 - 24	sbk C	S P FI SEXP							
		24 - 54	sbk/abk SCL	SS SP FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIg	III
Site LTAR (gpd/sq ft)	0.225*	0.225*

***LTAR only valid for area of pits 1, 3, 4, 6, &, 7 and at 36" trench depth.**

Other Factors (.1946): NA
Soil Evaluation By: Jacob Presley, LSS, REHS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: Kim Garrett, REHS
Others Present: Jacob Presley

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 2 of 3
File #: 9634B
AppID: 8637

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit	LS	0 - 6	gr SL	SS SP FR SEXP							
#7	8%	6 - 66	mass SL Sap	SS SP FR SEXP	>66"	6	PS	NA	few SCL soil inclusions 6 - 66"	**PS II 0.4**	**Install at 36"**

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30009099** GWS File #: **9799B** Tax Parcel #: **011-261-37**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 9/25/2022

Type of Installation: Residential - New System Lot Number: 3

Structure Type: HOUSE Size (ft^2): 5550 # Bedrooms: 4 Max. Occup.: 8

Building Foundation: Crawl Space Water Supply: Private Well

II. Initial System Type: Accepted **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	.225	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1600	Total Trench Length (ft):	533
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Drop Boxes		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	.225	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1067	Total Trench Length (ft):	356
Maximum Trench Depth (in):	36	Depth of Media (in):	22	Distribution Device:	Manifold (LPP Distri		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Kim Garrett Owner/Legal Agent: Robert Mark Morgan

Signature: Kim Garrett, REHS Signature: Robert Mark Morgan

Print Name

Date Issued: 9/25/2017

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IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. from all private wells (saprolite system).
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- The invert of the sewer pipe exiting the structrue should be kept as high as possible in order to achieve gravity flow to the drain field. A dosing tank will be required if gravity flow to the drain field can not be achieved.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.

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Authorized Agent: Kim Garrett

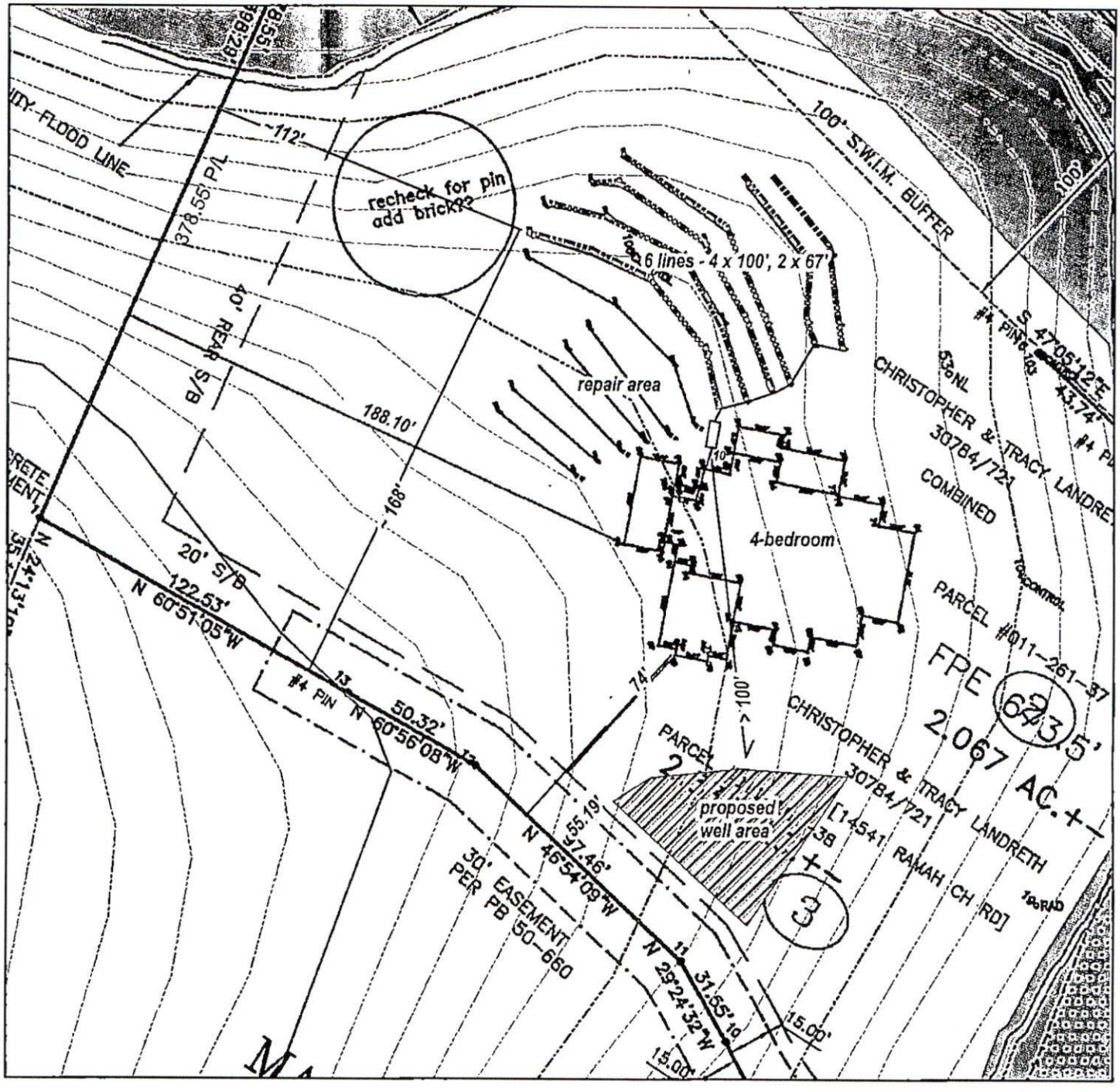
Signature: Kim Garrett, REHS

Date Issued: 9/25/2017

Owner/Legal Agent: Robert Mark Morgan
Print Name

Signature: Robert Mark Morgan

On-site Wastewater Improvement Permit Diagram



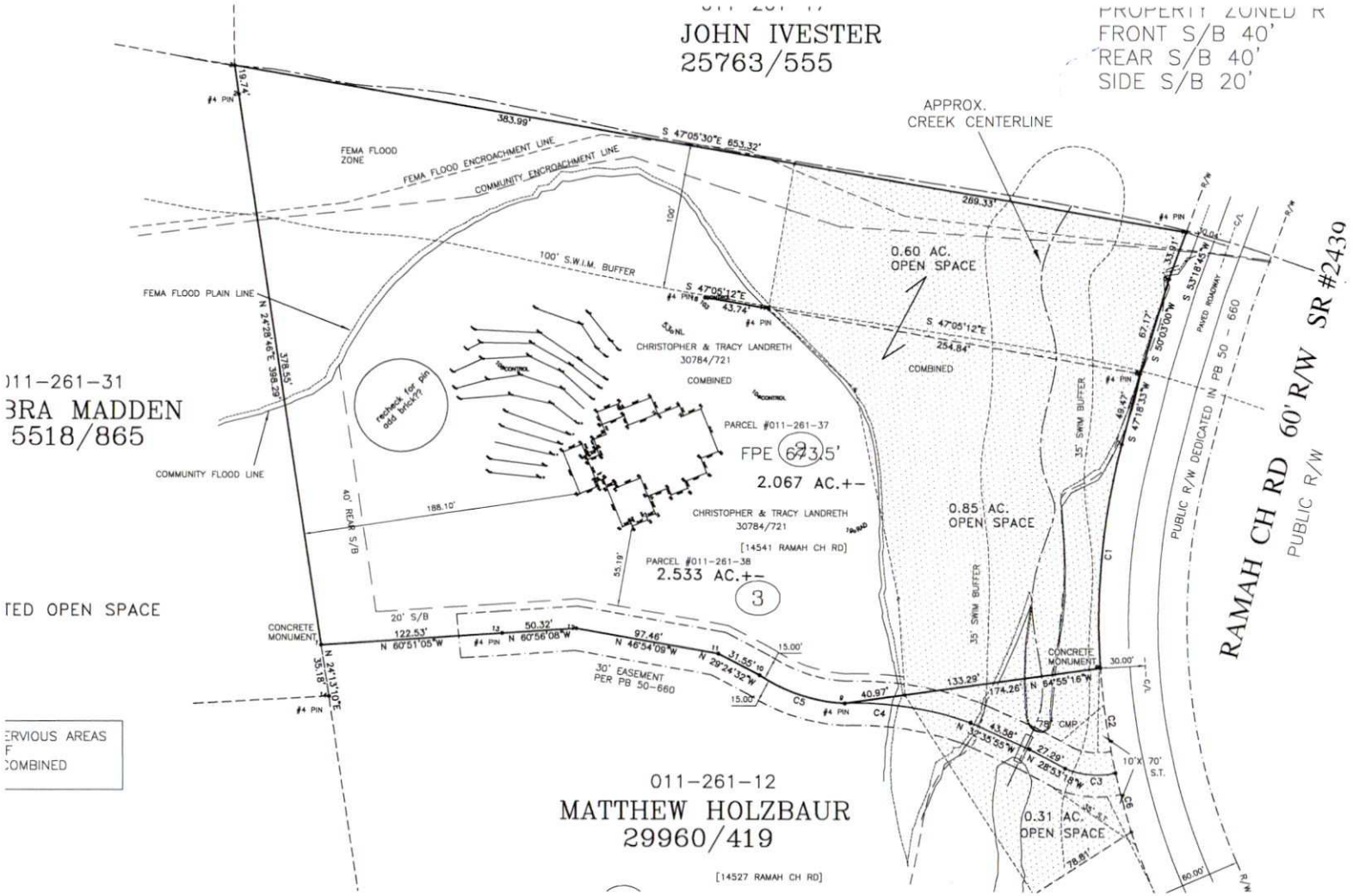
Mecklenburg County Health Department
Environmental Health - Groundwater and Wastewater Services

Permit #: 30009099
PID #: 011-261-37
File #: 9799 B

Authorized Agent: [signature], REHS Date: 9/25/17

Owner/ Legal Agent: Robert Mark Morgan Date: 9/25/2017

1 inch = 50 feet


JOHN IVESTER
25763/555
PROPERTY ZONED R
FRONT S/B 40'
REAR S/B 40'
SIDE S/B 20'
APPROX.
CREEK CENTERLINE
383.99'
S 47°05'30"E 653.32'
FEMA FLOOD
ZONE
FEMA FLOOD ENCROACHMENT LINE
COMMUNITY ENCROACHMENT LINE
100' S.W.I.M. BUFFER
FEMA FLOOD PLAIN LINE
COMMUNITY FLOOD LINE
N 24°28'46"E 398.29'
378.55'
011-261-31
BRA MADDEN
5518/865
TED OPEN SPACE
ERVIOUS AREAS
F
COMBINED
#4 PIN
19.74'
269.33'
0.60 AC.
OPEN SPACE
S 47°05'12"E
43.74'
254.84'
COMBINED
CHRISTOPHER & TRACY LANDRETH
30784/721
PARCEL #011-261-37
FPE 673.5'
2.067 AC.+-
[14541 RAMAH CH RD]
PARCEL #011-261-38
2.533 AC.+-
0.85 AC.
OPEN SPACE
188.10'
40' REAR S/B
20' S/B
CONCRETE
MONUMENT
N 24°13'10"E
35.18'
122.53'
N 60°51'05"W
50.32'
N 60°56'08"W
97.46'
N 46°54'09"W
N 29°24'32"W
30' EASEMENT
PER PB 50-660
15.00'
C5
C4
40.97'
133.29'
174.26'
N 54°55'16"W
30.00'
C1
C2
C3
43.58'
N 32°35'55"W
27.29'
N 28°53'18"W
10'X 70'
S.T.
78" CMP
35' SWIM BUFFER
48.47'
S 47°18'53"W
67.17'
S 50°03'00"W
33.91'
S 53°18'45"W
PAVED ROADWAY
PUBLIC R/W DEDICATED IN PB 50 - 660
RAMAH CH RD 60' R/W SR #2430
PUBLIC R/W
011-261-12
MATTHEW HOLZBAUR
29960/419
[14527 RAMAH CH RD]
0.31 AC.
OPEN SPACE
78.81'
60.00'

COMMENTS:

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
				m-moderate
		SiL-Silt Loam		s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



FEE: 200.00
DATE: 1/9/2018

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 9799B

PERMIT NUMBER: 30009099

PARCEL NUMBER: 01126137

JOB LOCATION INFORMATION

ADDRESS: 14535 RAMAH CHURCH RD

CITY: HUNTERSVILLE **STATE: NC** **ZIP:** 28078

ISSUED TO: CHRIS LANDRETH

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 9/25/2017

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30009099, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. A PRE-CONSTRUCTION MEETING MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A LICENSED SEPTIC TANK CONTRACTOR WITH THE NORTH CAROLINA ONSITE WASTEWATER CONTRACTOR INSPECTOR CERTIFICATION BOARD.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, AND MAY BE ISSUED AT THE SAME TIME THE IMPROVEMENT PERMIT IS ISSUED.

Authorized Agent Signature Kim Garrett, REHS

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 9799B App # 30009099 Tax Parcel # 011-261-37

Property Owner: Christopher & Tracy Landreth

Job Location Address: 4535 Roman Church Road

City: Huntersville State: NC Zip Code: 28078

1. **Does System design match facility, flow & wastewater characteristics?**

   ☒ YES ☐ NO

   Comments: _____

2. **Is there sufficient available space for the septic systems initial and repair areas?**

   ☒ YES ☐ NO

   Comments: _____

   _____

3. **Can the septic system be installed per the permit conditions and drawing on file?**

   ☒ YES ☐ NO

   Comments: _____

   _____

* If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☒ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. System shall not be installed while soils are in wet condition.

Kim Daniels REHS — 3/29/18

Authorized Agent **Date**

Craig Thompson

Others Present

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9799 B Permit #: 30009099 Tax Parcel #: 011-261-37

Property Owner: Christopher & Tracy Landreth

Job Location Address: 14535 Ramah Church Road

City: Huntersville State: NC Zip Code: 28278

Operation Permit Issuance Date: 3/29/2018 Contractor Name: Tommy Frye #1069, Craig Thompson

Permitted Design Flow: 480 GPD Liquid Capacity of Dosing Tank: n/a gallons

Liquid Capacity of Septic Tank: 1000 gallons Manufacture Taylorsville 11/13/17 Effluent Pump Model: n/a

Drainfield Installation ☐ N/A

Trench Depth: 33 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 534 feet

# of Lines: 4 @ 100 69 feet

Depth of Media: 12 inches (Type) Chambers

Depth of Cover: 21 inches

Distribution Device: end caps

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☒ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: >10 feet

Distance from Property Line: >10 feet

Distance from Water Supply Source: >100 feet

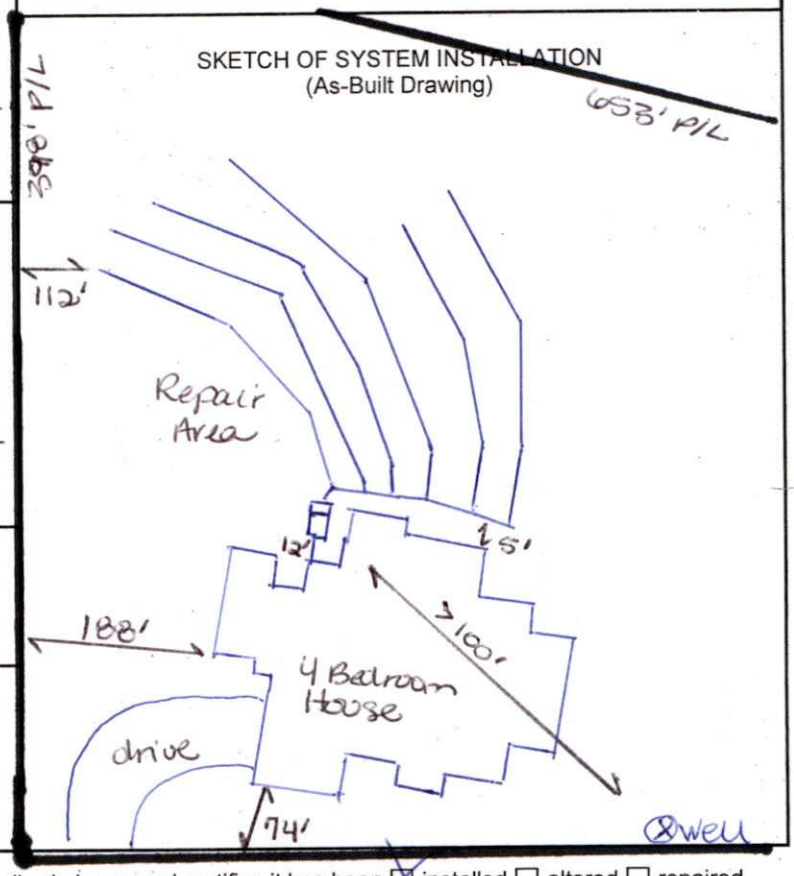
Inspection Dates

Tank(s) Inspected: 3/29/18

Excavation Inspected: 3/29/18

Pump & Controls Inspected: n/a

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: IIIg, gravity, IQ4, n/a, n/a

DENR Authorized Agent: Kim Garrett, REHS Signature: Kim Garrett REHS

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NC DENR
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OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9799 B Permit #: 30009099 Tax Parcel #: 011-261-37

Property Owner: Christopher & Tracy Landreth

Job Location Address: 14535 Ramah Church Road

City: Huntersville State: NC Zip Code: 28278

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: III g

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☒ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: Kim Garrett, REHS Date: 3/29/18

Signature: Kim Garrett REHS