IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 224315

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

PIN # 4765801566.000 ✓

APPLICANT/OWNER: Porter Builders APPLICANT ADDRESS: 2143 Mocksville Hwy Statesville NC

SITE ADDRESS: 144 Lonehart Lane Statesville NC 28625 PHONE: 704-878 9314 ALT. PHONE 704-902-3124

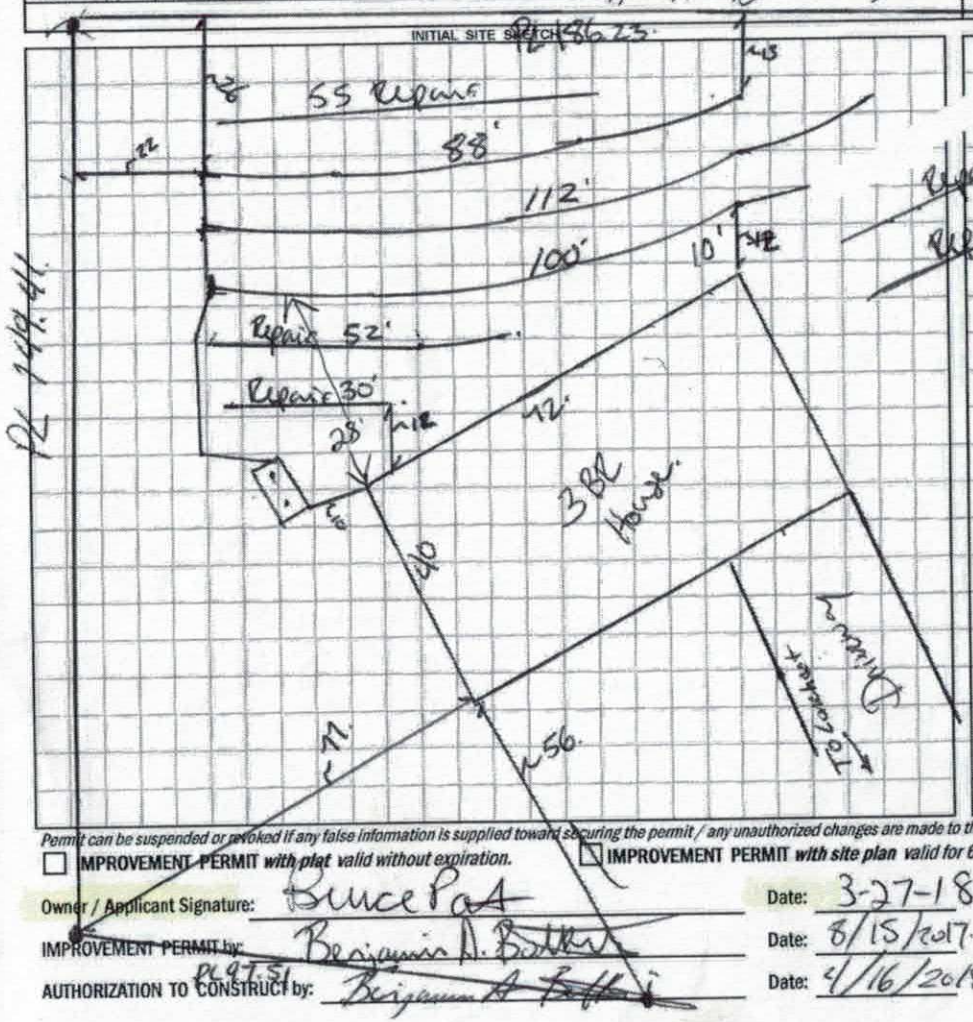
SITE DIRECTIONS: Hwy 64 East Past Iredell Springs VFD. Turn Right on Love Pine Turn Right on Lonehart SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: ✓ Love Pine Meadows SECTION: 3 LOT # 11 LOT AREA: .65 Acres DESIGN FLOW: 360 L.T.A.R.: .30

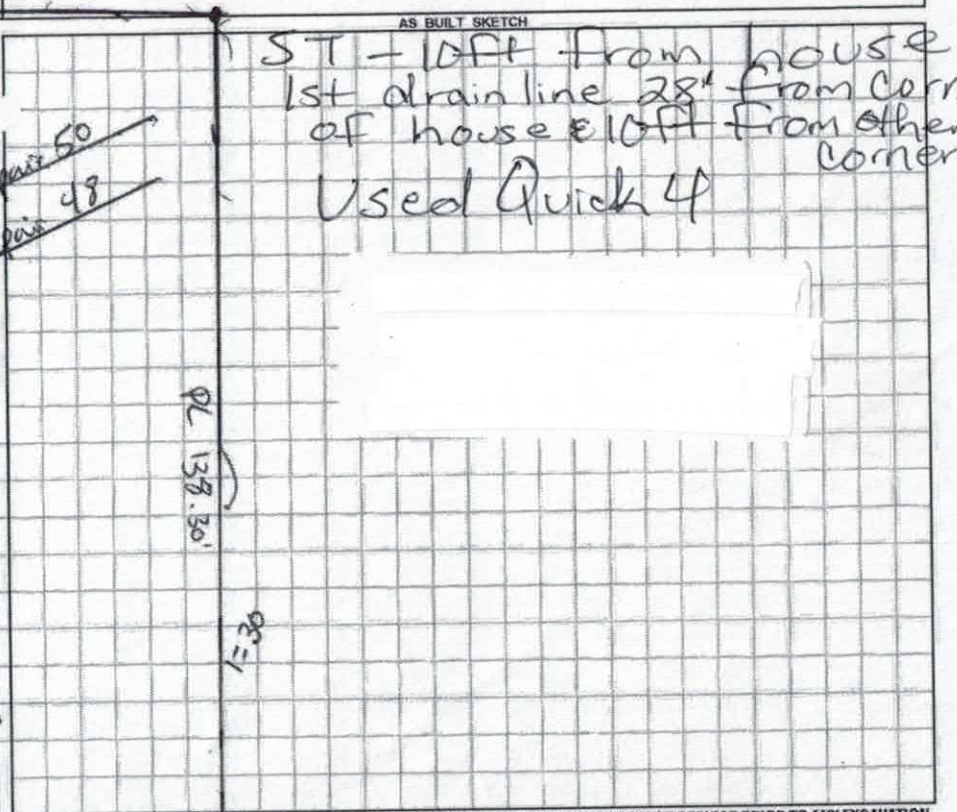
Septic Tank	1000	(gal)	STB	1160	Date	7-19-18	☒ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI	☒ Residence	No. Bedrooms	3	Water Supply
Pump Tank		(gal)	PT		Date		System Description: 25% Reduction	☐ Business	No. Persons	6	☐ Private
Pump Make		Model			Serial #		Repair System Description: 50% Reduction	☐ Other	No. Employees		☒ Public
# Nitrification Fields	1	# Lines	3		Linear Ft	300	Maintenance Agreement Required: ☐ YES ☒ NO	☐ Slab	☒ Crawl Space		☐ Community
Trench Width	36	Trench Bottom Depth(Low side)		33	Gravel Depth	~	☒ GRAVITY ☐ PRESSURE	☐ Basement w/plumbing		☐ Basement w/o plumbing	

Comments / Conditions: Permit Design by ICHD + Ashley Rollins LSS. Septic System Also attached Spec. Sheet with necessary information
Must be installed on the center of the 1st Utilities Serial distribution. Maintain
10ft offset from Foundation drains. Do not Drive, park, Pave, grade or bury Utilities in Trench/drainfield area.

INITIAL SITE SKETCH



AS BUILT SKETCH



Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☐ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☐ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Bruce Porter Date: 3-27-18 Installed by: Cothren Pools

IMPROVEMENT PERMIT by: Benjamin A. Rollins Date: 8/15/2017 OPERATION PERMIT by: Maura Dolson Date: 10/8/18

AUTHORIZATION TO CONSTRUCT by: Benjamin A. Rollins Date: 4/16/2018 Existing System Inspected by: _____ Date: _____

S88°18'36"E 138.30'
N01°41'24"E 186.23'
S08°31'35"W 97.51'
N87°51'03"W 149.41'
EIP
CC
LONEHART LANE
DRIVE
C19
C18
35' FY
11
28,322.57 Sq Ft
0.650 AC.
40'
1 Y 48'
2 B 50'
8 B 55'
7 R 90' (88')
6 Y 115' (112')
5 O 130' (108')
4 P 60'
3 B 35'
P1
P2
P3
P4
P5
S1
NAD 83 (2011)
SCALE
1" = 30'

ROLLANS *Soil & Environmental Services, PA.*

P.O. Box 832 Mooresville, NC 28115 Phone: (704) 658-1723 Fax: (704) 278-0989

Ashley Rollans, NC Licensed Soil Scientist
Mobile: (704) 746-5046
Email: rollans.ashley@yahoo.com

Attached is a proposed design for an Accepted Septic System with gravity dist. for a 3 bedroom single family residence on Lot 11, Lone Pine Meadows Subdivision, Statesville (PIN 4765801566), Iredell County, North Carolina.

Contents: **Page**

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

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

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

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

Profile Descriptions---------- 7-8

Expedited Review Process Checklist---------- 9

Zoning Permit & Receipt---------- 10-12

Application---------- 13-14

Green Sheet---------- 15

Agent Authorization Form---------- 16

LICENSED SOIL SCIENTIST Samuel A. Rollans 1231 STATE OF NORTH CAROLINA

8/8/17

August 8, 2017
Project #: 01-3420
Design By: Rollans Soil & Environmental Services, PA

GRAVITY ACCEPTED SYSTEM
FOR WASTEWATER TREATMENT

Applicant:	Porter Builders
Address:	2143 Mocksville Highway Statesville, NC 28625
Phone:	704.746.5046
County:	Iredell
Location:	144 Lonehart Lane Statesville, NC 28625
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360
System Flow:	N/A

Design Specifications

Drainfield Size:	300	
Loading Rate (gpd/ft.^{2}):	0.3	
Depth of Gravel in Trench:	N/A	
Gravel Size:	N/A	
Max.Trench Depth:	30 in.	Repair Trench Bottom 30 in.
Trench Width:	36 in.	
Septic Tank Size:	1000	

Estimated Supply Line Length:	55
Supply Line Diameter:	4 in. SCH 40 PVC
Supply Line Volume:	35.92
Dosing Volume:	N/A
Supply Manifold:	N/A
Supply Manifold Length:	N/A
Supply Manifold Volume:	N/A
Recommended Float Controls:	N/A
Recommended Control Panel:	N/A
Pressure Head:	N/A
Friction Head:	N/A
Elevation Head:	N/A
Total Dynamic Head:	N/A
Threaded Union:	N/A
Gate Valves:	N/A
Check Valves:	N/A
Anti-Siphon Hole:	N/A
Additional Comments:	Soil suitability was performed by Rollans Soil & Environmental Services

144 Lonehart Lane

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	900
TOTAL LATERAL LENGTH:	300
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	300
SUPPLY LINE LENGTH:	55
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000

Layout Specifications - Lone Pine Meadows Lot 11

Project #: 01-3420

LAYOUT FOR 3 BEDROOM HOME — August 8, 2017

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	YELLOW					48	48
2	BLUE					50	50
3	BLUE					~~35~~ 30	~~35~~ 30
4	PINK					~~60~~ 52	~~48~~ 52
5	*ORANGE*					*130*	*100*
6	*YELLOW*					*115*	*112*
7	*RED*					*90*	*88*
8	BLUE					55	55
					Total	583	536

Changes made SAR

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	*300*	*0.300*	*ACCEPT.*	*0.300*	*25% RED*	*GRAVITY*
Repair	236	0.300	MOD. CONV.	0.300	PPBPS	LOW PRESSURE

APPROVED AUG 15 2017

Notes: **All measures in feet

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

****HOUSES STAKED BY LICENSED SURVEYOR.**

CALCULATIONS

Location 144 Lonehart Lane
Statesville, NC 28625
Project Number 01-3420

Lot No: 11 Lone Pine Meadows

No. of Bedrooms 3

Design Flow 360 $^{gal}/_{day}$

LTAR 0.300 $^{gal}/_{ft^2\ day}$

PPBPS? (YES OR NO) NO

Supply Line Length 55 ft.

Supply Line Volume 35.915 gal.

Required Feet of Line 300 ft.
Amount of Line from Layout 300 ft.

Gallons per Minute N/A $^{gal}/_{min}$

Required Septic Tank Capacity 1000 gal.
Septic Tank Size 1000 gal.

Panel Volume N/A gal.
# of Panels N/A
Dosing Volume N/A gal.

Tank Draw Down N/A

Pump Run Time

Elevation Head N/A ft.
Pressure Head N/A ft.
Friction Factor N/A ft./100 ft. *(From the interpolater.)*
Friction Head N/A ft.

Total Dynamic Head (+15%) N/A ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

Sheet 1 of 2
PROPERTY ID #: 4765 Bo13
COUNTY: Iredell

PAGE 1

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

OWNER: Porter Builders
ADDRESS: 2143 Mocksville Hwy Statesville NC 28625
PROPOSED FACILITY: 3BR House
LOCATION OF SITE: Lot #11 Lone Pine Meadows
APPLICATION DATE: 8/9/17
DATE EVALUATED: 7/25/17
PROPOSED DESIGN FLOW (.1949): 360 gpd
PROPERTY SIZE: 1.65
PROPERTY RECORDED: Yes

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) .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	6% L	0-13	BR scl wk sbk	fr nsp nsp		50"	PS		.3 PS
		13-18	RBCL wk med sbk	fr ss sp smp					
		18-44	RC mal, med sbk	fr ss sp smp					
		44-50	BRCL wk med sbk	fr ss sp smp	few comm smp				
		50-60	loamy sap wk sbk	fr ns ap nsp	few inclusions CLIC				
2	6% L	0-7	BCL wk med sbk	fr ss sp smp	> 0-10" compacted	53"			.3 PS
		7-10"	BRC wk med sbk	fr ss sp smp					
		10-44	BRC wk med sbk	fr ss sp smp					
		44-53	RBCL wk sbk	fr ss sp smp	few saprolite inclusions				
3	BB ICHD 6% APPROVED AUG 15 2017	0-12	BCL wk sbk	Fr ss sp		56"			.3 PS
		12-34	BRC wk sbk	Fr ss sp					
		34-56	RBCL wk sbk	Fr ss sp	Few-com Sap				
4	BB ICHD 5% APPROVED AUG 15 2017	0-8	BCL wk sbk	Fr ss sp		62"			.3 PS
		8-31	BRC wk sbk	Fr ss sp					
		31-62	RBCL wk sbk	Fr ss sp	Few-com sap				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES/PS	YES/PS
System Type(s)	GRAV 25%/1	LPP 50%/Rep
Site LTAR	.3	.3

OTHER FACTORS (.1946): NA
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: A. Rollins LSS
OTHER(S) PRESENT: Owner, Rocky Neal

COMMENTS: PLT #5 ON Page #2

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

[redacted]

4765 801566 Lone Rhemp Church Rd

Sheet 2 of 3

PROPERTY ID #: Lot 16

DATE OF EVALUATION: 7/25/17

COUNTY: Iredell

PAGE # 2

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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	6% L	0-14	BCl wmsbk	Frsssp sexp	Few sap	58"			.3 PS
		14-58	Brc wmsbk lobk	Frsssp sexp					

22-9315
pd $350
8/9/17

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 1: *APPLICATION FORM*

Application For:
( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(X) Septic Improvement Permit (X) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repai

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.

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 an (X) beside whichever is submitted if applicable (X) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information:

Applicant Name: Porter Builders **Address:** 2143 Mocksville Hwy Statesville NC 28625 **Phone:** 7049023124

Owner Name: Porter Builders **Address:** 2143 Mocksville Hwy Statesville NC 28625 **Phone:** 7049023124

Property Information: Pin# 4765 801566

Street Address: 144 Lonehart Lane Statesville NC 28625

Subdivision Name: Lone Pine Meadows **Section/Phase:** 3 **Lot Number:** 11

Driving Directions: Hwy 64 East past Cool Springs VFD. Turn Right Lone Pine Road. Turn Right Lonehart. At end on Right in Cul-de-sac at BOX # 144

Site Development Information: ***(check or complete ALL that apply)***

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition

Maximum Number of Bedrooms: 3
Maximum Number of Occupants: 6
( ) Swimming Pool
( ) Other Addition/Structure:

(X) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

Non-Residential Site Development:
Type of Business:
Square Footage of Building:
Maximum Number of Employee:
Maximum Number of Seats/Beds/Other:

Water Supply:

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

Desired Septic System Type: ***(you may rank in order of preference)*** **Year existing system installed:**
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional (X) Other: Amended

Please answer the following to the best of your ability:
( ) Yes (X) No **Does the site contain any jurisdictional wetlands?**
( ) Yes (X) No **Is any non-domestic sewage (i.e. industrial) to be generated?**
( ) Yes (X) 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.

Signature: Samuel A Teller
Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

8/8/17
DATE

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

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.

I, Porter Builders / Bruce Porter, am the legal owner(s) of the property located at 144 Lone Hart Lane Statesville NC 28625, identified as Lone Pine Meadows Lot 11 PIN (Parcel Identification Number) 4765 80 1566, located in Iredell County, North Carolina.

I do hereby authorize (print legal representative/company name) Samuel Ashley Rollans, Rollans Soil & Environmental Services, 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.

Bruce Porter	8-9-17	Luke Porter	8-9-17
Signature of Owner(s)	Date	Signature of Witness	Date

Please return this signed form to the appropriate office:

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

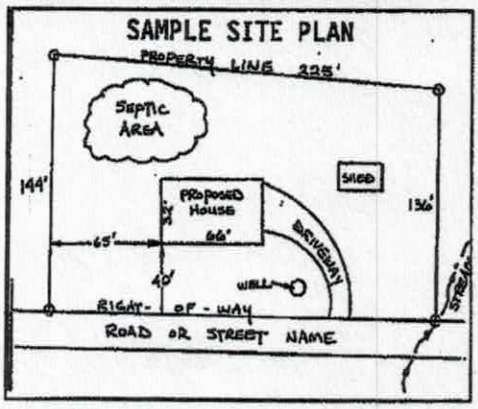
ENVIRONMENTAL HEALTH DIVISION

PAGE 2: *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**
- (X) **All proposed structures are indicated**
- (X) **Front and side setbacks from property line**
- (X) **Preferred driveway location and well location**
- (X) **Area you prefer your septic system to be placed**
- (X) **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**

USE THIS SPACE TO DRAW YOUR SITE PLAN

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

SEE Attached Drawing.

Signature: Samuel A Keller — 8/8/17

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) — **DATE**

S88°18'36"E 138.30'
N01°41'24"E 186.23'
S08°31'35"W 97.51'
N87°51'03"W 149.41'
EIP
CC
LONEHART LANE
DRIVE
C18
C19
40'
35' FY
28,322.57 Sq Ft
0.650 AC.
NAD 83 (2011)
SCALE
1" = 30'

IREDELL COUNTY

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

APPLICATION NUMBER
229315
Issue Date: 08/08/2017

ZONING PERMIT

Residential

Parcel Number	Street Address	Jurisdiction
4765801566.000	144 LONEHART LANE, STATESVILLE, NC 28625	

Owner Information	Applicant Information
Owner: WCU INC	Applicant: PORTER BUILDERS
Address: PO BOX 64 STEINHATCHEE, FL 32359	Address: 2143 MOCKSVILLE HWY STATESVILLE, NC 28625
Phone: 352-672-3132	Phone: 704-878-9314

Use Requested	Zone Code
SFD	R20

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
	35.00	35.00	15.00	15.00	NOT	X

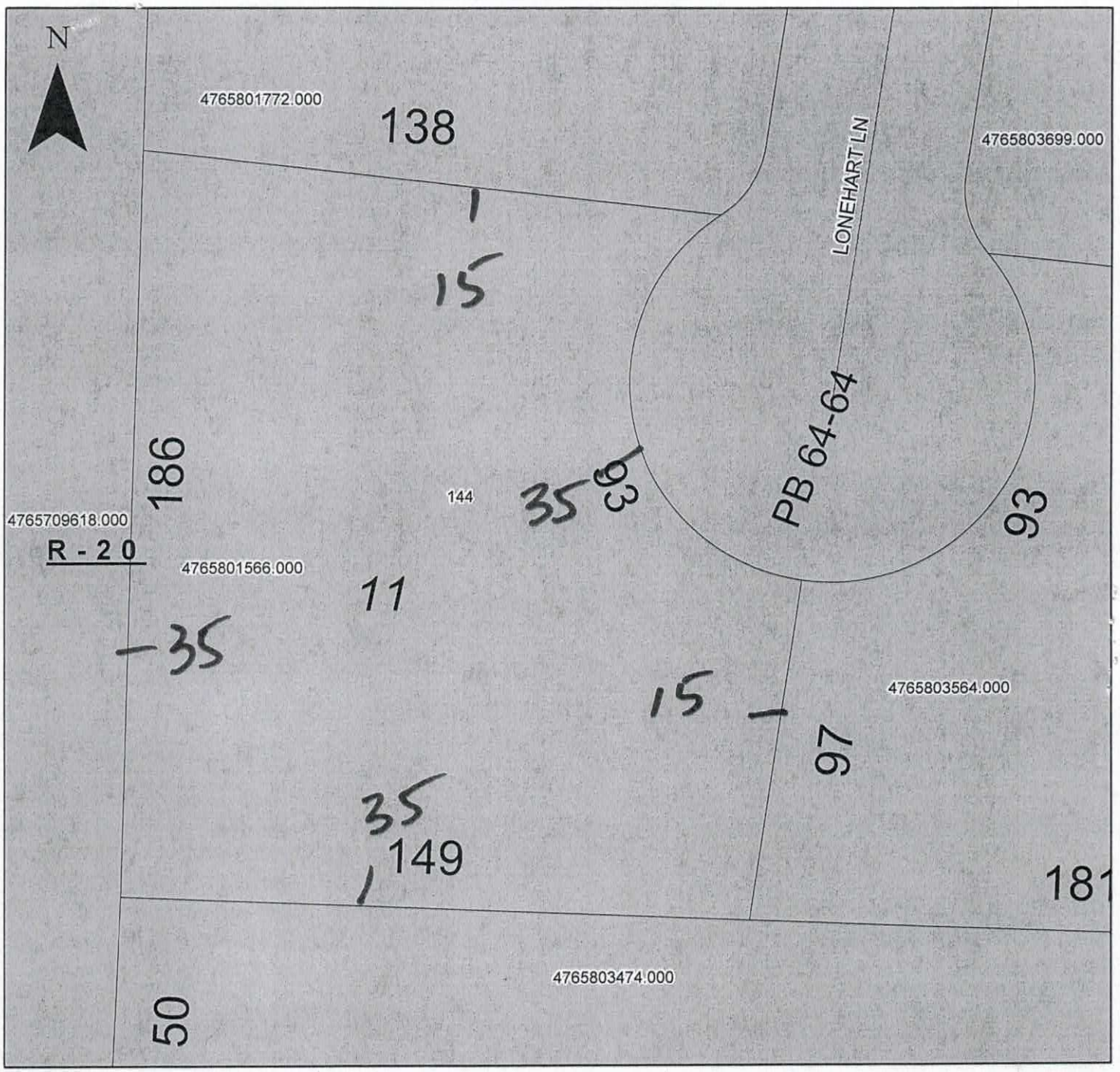
Remarks:

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.

Applicant: Sean Tedder Date: 8/9/17

Permit Number	111558	TOTAL FEES:	$ 77.25

ZONING DISCLAIMER



Property Address 144 Lonehart Ln

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.

Sean Tollner
Applicant

8/9/17
Date