IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 | Mooresville Office (704) 660-3625 | PERMIT # 245668

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

PIN # 4659345156

APPLICANT/OWNER: Foley Home Sales | APPLICANT ADDRESS: 1075 Blue Spruce Drive 28115

SITE ADDRESS: 115 Grasslands Drive Mooresville NC 28115 | PHONE: 856-404-5379 | ALT. PHONE: -

SITE DIRECTIONS: Hwy 115 past Hwy 150 Continue on Hwy 21 Property on Right South of Fruit Crossing | SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Country Meadows | SECTION: - | LOT # 14 | LOT AREA: .60 Acres | DESIGN FLOW: 480 | L.T.A.R.: .30

Septic Tank	1000 (gal)	STB	760	Date	5-7-19	☒ New System ☐ Repair ☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms	4	Water Supply
Pump Tank	- (gal)	PT	-	Date	-	System Description:	Gravity 25% Reduction	☐ Business	No. Persons	8	☒ Private
Pump Make	-	Model	-	Serial #	-	Repair System Description:	LPP - 50% Reduction	☐ Other	No. Employees		☐ Public
# Nitrification Fields	1	# Lines	5	Linear Ft	400	Maintenance Agreement Required:	☐ YES ☒ NO	☐ Slab	☒ Crawl Space		☐ Community
Trench Width	36	Trench Bottom Depth	+24+	Gravel Depth	-		☒ GRAVITY ☐ PRESSURE	☐ Basement w/plumbing		☐ Basement w/o plumbing	

Comments / Conditions: Real-Filter Installed

ST - 15ft from house
10/10/19 Checked ST & upper 4 lines

INITIAL SITE SKETCH

Permit issued in accordance and pursuant to requirements of SL-2018-114 Section 11.6 using the Signed + Sealed LSS Evaluation by Soil + Forestry Services of the Carolinas P.A.

AS BUILT SKETCH

Installed Quick 4 as shown

UPPER 4 LINES INSTALLED AS 82'
LOWER LINE CHECKED 10-11-19 74' BCW INSTALLED

	Date	Initials
Drain Lines Checked Upper 4	10/10/19	MD
Tanks Checked	10/10/19	MD
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Y / N		

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: Shelsey Foley | Date: | Installed by: Groundbreakers

IMPROVEMENT PERMIT by: Benjamin A Bolton | Date: 7/23/2019 | OPERATION PERMIT by: Burkett C. White | Date: 10-11-2019

AUTHORIZATION TO CONSTRUCT by: [signature] | Date: 9/6/19 | 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 inspector to confirm your inspection time.

IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # 245668

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

PIN #

APPLICANT/OWNER: Foley Home Sales APPLICANT ADDRESS: 1075 Blue Spruce Drive 28115

SITE ADDRESS: 115 Grasslands Drive Mooresville NC 28115 PHONE: 856-404-5379 ALT. PHONE -

SITE DIRECTIONS: Hwy 115 past Hwy 150 Continue on Hwy 21 Property on Right South of Freeze Crossing SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Country Meadows SECTION: - LOT # 14 LOT AREA: .60 Acres DESIGN FLOW: 480 L.T.A.R.: .30

Septic Tank 1000 (gal)	STB 760	Date 5-7-19	☒ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI		☒ Residence	No. Bedrooms 4	Water Supply
Pump Tank - (gal)	PT -	Date -	System Description: Gravity 25% Reduction		☐ Business	No. Persons 8	☒ Private
Pump Make -	Model -	Serial # -	Repair System Description: LPP - 50% Reduction		☐ Other	No. Employees	☐ Public
# Nitrification Fields 1	# Lines 5	Linear Ft 400	Maintenance Agreement Required: ☐ YES ☒ NO		☐ Slab	☒ Crawl Space	☐ Community
Trench Width 36	Trench Bottom Depth +24+		Gravel Depth -	☒ GRAVITY ☐ PRESSURE	☐ Basement w/plumbing		☐ Basement w/o plumbing

Comments / Conditions: Real Filter installed

ST - 15ft from house
10/10/19 Checked ST & upper 4 lines

INITIAL SITE SKETCH

Permit issued in accordance and pursuant to requirements of SL-2018-114 Section 11.(c) using the Signed & Sealed LSS Evaluation by Soil & Forestry Services of the Carolinas P.A.

AS BUILT SKETCH

Installed Quick 4 as shown

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**

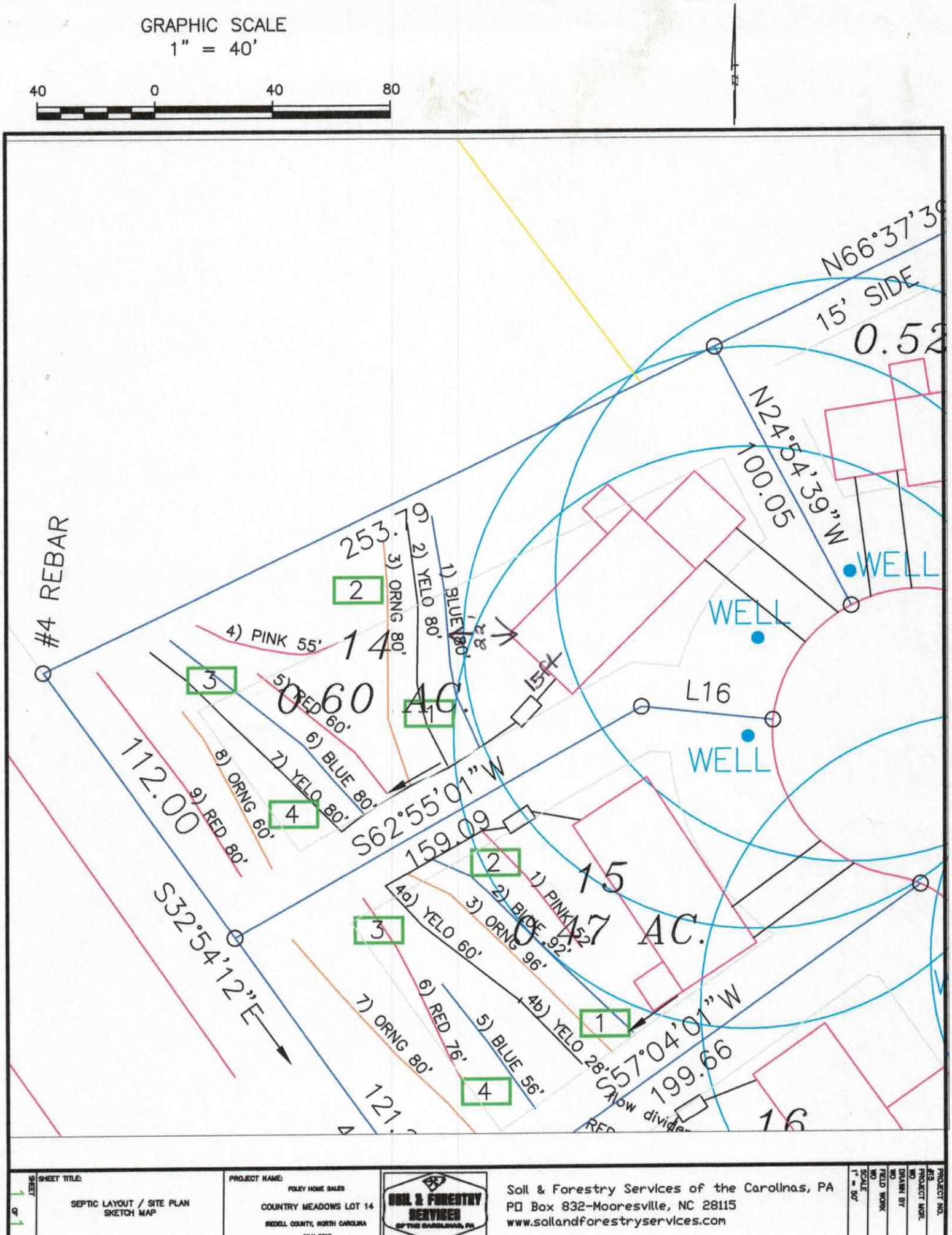
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☒ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☒ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Shelsea Foley Date: Installed by: Groundbreakers

IMPROVEMENT PERMIT by: Benjamin Bolton Date: 7/23/2019 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Date: 9/6/19 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.



SHEET TITLE: SEPTIC LAYOUT / SITE PLAN SKETCH MAP

PROJECT NAME: FOLEY HOME SALES
COUNTRY MEADOWS LOT 14
REDELL COUNTY, NORTH CAROLINA
JULY 2019

SOIL & FORESTRY SERVICES OF THE CAROLINAS, PA

Soil & Forestry Services of the Carolinas, PA
PO Box 832-Mooresville, NC 28115
www.soilandforestryservices.com

SCALE: 1" = 50'
FIELD WORK BY: WD
DRAWN BY: WD
PROJECT MGR.: WD
PROJECT NO. #15

GRAVITY DOSED SYSTEM
FOR WASTEWATER TREATMENT

Applicant:	Foley Home Sales
Phone:	856 404-5379
County:	Iredell
Location:	Country Meadows Lot 14

Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	480 gpd
System Flow:	gpm

Design Specifications

Drainfield Size:	400	lf
Loading Rate:	0.3 gpd/ft.^{2}	
Depth of Gravel in Trench:	n/a	
Gravel Size:	n/a	
Trench Depth:	24	in
Trench Width:	36 in.	
Septic Tank Size:	1000	
Pump Tank Size:	n/a	
Estimated Supply Line Length:	10	lf
Supply Line Diameter:	3 in. SCH 40 PVC	
Supply Line Volume:	n/a	gal
Dosing Volume:	n/a	gal

Recommended Float Controls:

Recommended Control Panel:

Pressure Head:	n/a	
Friction Head:	0.00	ft
Elevation Head:	0.00	ft
Total Dynamic Head:	0.00	ft
Threaded Union:	n/a	
Gate Valves:	n/a	
Check Valves:	n/a	
Anti-Siphon Hole:	n/a	
Recommended Pump:	n/a	

Country Meadows Lot 14

Gravity Design

DESIGN FLOW:	480	gpd
SOIL APPLICATION RATE:	0.3 gpd/ft.^{2}	
TOTAL AREA TRENCH BOTTOM:	1200	sf
TOTAL LATERAL LENGTH:	400	lf
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	400	lf
SUPPLY LINE LENGTH:	10	lf
TOTAL DYNAMIC HEAD:	0.00	gpm
DOSING VOLUME:	0.00	gal
PUMP TANK DRAW DOWN*:	0.0	in
SEPTIC TANK SIZE:	1000	
PUMP TANK SIZE:	n/a	

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

Country Meadows Lot 14

Layout for a 4 bedroom home **Jun-19**

LINE #	FLAG COLOR	BS	HI	FS	ELEV	FLAGGED LENGTH	DESIGN LENGTH
TBM							
INSTR. 1							
Back Rt House Crnr							
			SYSTEM				
1	Blue					83	80
2	Yellow					87	80
3	Orange					90	80
			REPAIR				
4	Pink					55	55
5	Red					64	64
			SYSTEM				
6	Blue					90	80
7	Yellow					90	80
			REPAIR				
8	Orange					64	64
9	Red					88	84

	LINE LENGTH	LTAR GPD/FT	SYSTEM TYPE	REDUCTION TYPE	DIST	TRENCH DEPTH
SYSTEM	400	0.300	ACCEPT	25%	GRAVITY	24
REPAIR	267	0.300	PPBPS	50%	LPP	30

Notes:

**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS and FS indicate rod readings

SOIL & FORESTRY SERVICES
OF THE CAROLINAS PA

July 1, 2019

Iredell County Environmental Health
Attn: Heath Snow
349 N Center Street
Statesville, NC 28677

Re: Session Law 2018-114 Submittal for Country Meadows Subdivision-Mooresville

Lot 14-115 Grasslands Drive

Mr. Snow,

Attached please find sealed soil notes as well as site plans and design related data for a 4-bedroom accepted (25% reduction) system using gravity distribution. The design packet is submitted under Session Law 2018-114 (HB 374).

"The LSS Evaluation attached to this application is to be used to produce design and construction features for permitting in accordance with SL 2018-114 Section 11.(c)."

Owner: Doug Foley, Foley Home Sales, Inc.:

Signature: _____

"The LSS Evaluation is being submitted pursuant to and meets requirements of SL 2018-114 Section 11.(c)."

Wendell Overby, LSS

Signature: Wendell Overby 7-1-19

Seal:



CALCULATIONS

Location Country Meadows

Project Number 18-1185

Lot No: 14

No. of Bedrooms 4

Design Flow 480 $^{gal}/_{day}$

LTAR 0.3 $^{gal}/_{ft^2\ day}$

Accepted? (YES OR NO) Yes

Supply Line Length 10 ft.

Supply Line Volume 0 gal.

Required Feet of Line 400 ft.
Amount of Line from Layout 400 ft.

Gallons per Minute 0.00 $^{gal}/_{min}$

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

Lateral Line Volume 261.2 gal.

Dosing Volume 0.00 gal.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
27.4	1.51
30	1.78
	-1.76
35	2.37
37	2.63
40	3.03
42.7	3.43
45	3.77
46.51	4.01
50	4.58
57.11	5.89
60	6.42

Tank Draw Down 0.0 in.
Generic Draw Down of 21 gal.per in.

Pump Run Time #DIV/0! minutes

Elevation Head 0 ft.
Pressure Head 0 ft.
Friction Factor 0 ft./100 ft. *(From the interpolater.)*
Friction Head 0.00 ft.
Elevation Head +15% 0
Total Dynamic Head 0.00 ft.

PROPERTY ID #: 4659349026
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Foley Home Sales APPLICATION DATE 7/5/19
ADDRESS: 1571 Charlotte Hwy Mooresville, NC 28115 DATE EVALUATED: 3/20/19
PROPOSED FACILITY: New Home PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: .6
LOCATION OF SITE: Country Meadows Lot 14 PROPERTY RECORDED: NO
WATER SUPPLY: x☐ Private ☐ Public x☐ Well ☐ Spring Other
EVALUATION METHOD: ☐ Auger Boring x☐ Pit ☐ Cut TYPE OF WASTEWATER: x ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	L / 8%	0-11	B SL WFGr	Fr SS SP	N/A	62	PS	N/A	PS .3
		11-17	RB SCL WFS	Fr SS SP					
		17-27	R C WFS	Fr SS P					
		27-40	RB C WMA/S	Fi SS SP [rock 26-50"]					
		40-62	RB CL WFS	Fr SS SP f/c sap					
2	L / 7%	0-8	RB SCL WFS	Fr SS SP	N/A	46	PS	N/A	PS .3
		8-26	BR C WMS/A	Fr SS SP					
		26-46	RB CL WMS	Fr SS SP f/c sap					
		46-60	VAR L Mass	VFr NS NP					
3	L / 6%	0-10	B SL WFGr	Fr SS SP	N/A	60	PS	N/A	PS .3
		10-33	R C MMS	Fr SS SP					
		33-60	R CL WFS	Fr SS SP f/c sap					
4	L / 10%	0-10	B SL WFGr	Fr SS SP	N/A	58	PS	N/A	PS .3
		10-16	R SCL WFS	Fr SS SP					
		16-34	R C WMS	Fr SS P					
		34-58	RB CL WFS	Fr SS SP c sap					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	400	267
System Type(s)	ACCEPTED	PPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS

EVALUATED BY: Overby
OTHER(S) PRESENT:

LICENSED SOIL SCIENTIST WENDELL O. [illegible] 1210 STATE OF NORTH CAROLINA

COMMENTS:

RECEIVED JUL 19 2019

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

#245668 $500.00

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

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: (X) 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: (PRINT CLEARLY)

Applicant Name: FOLEY HOME SALES **Address:** 1075 BLUE SPRUCE DRIVE **Zip:** 28115

Applicant Email: FOLEY1301CGMAIL.COM **Phone:** 856 404-5379 **Alt. Phone:** _____

Owner Name: _____ **Address:** _____ **Zip:** _____

Owner Email: _____ **Phone:** _____ **Alt. Phone:** _____

Property Information:

Street Address: 115 GRASSLANDS DRIVE, MOORESVILLE

Subdivision Name: COUNTRY MEADOWS **Section/Phase:** _____ **Lot Number:** 14

Driving Directions: STATESVILLE AVENUE NORTH (HWY 115) PAST HWY 150. CONTINUE ON HWY 21. PROPERTY ON RIGHT JUST SOUTH OF FREEZE CROSSING.

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

(X) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____

Maximum Number of Bedrooms: 4
Maximum Number of Occupants: 8
( ) Swimming Pool
( ) Other Addition/Structure: _____

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

Non-Residential Site Development: Type of Business: _____
Square Footage of Building: _____ Max. Number of Employees: _____ Max. Number of Seats/Beds/Other: _____

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____

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

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

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: _____ 5/30/19
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

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, DOUG FOLEY, am the legal owner(s) of the property located at 1571 CHARLOTTE HWY, MOORESVILLE, NC 28115, identified as PIN (Parcel Identification Number) 4659-34-9026-000, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) SOIL & FORESTRY 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.

D Foley 5/17/19
Signature of Owner(s) Date

Wendell Cly 5/17/19
Signature of Witness Date

Please return this signed form to the appropriate office:

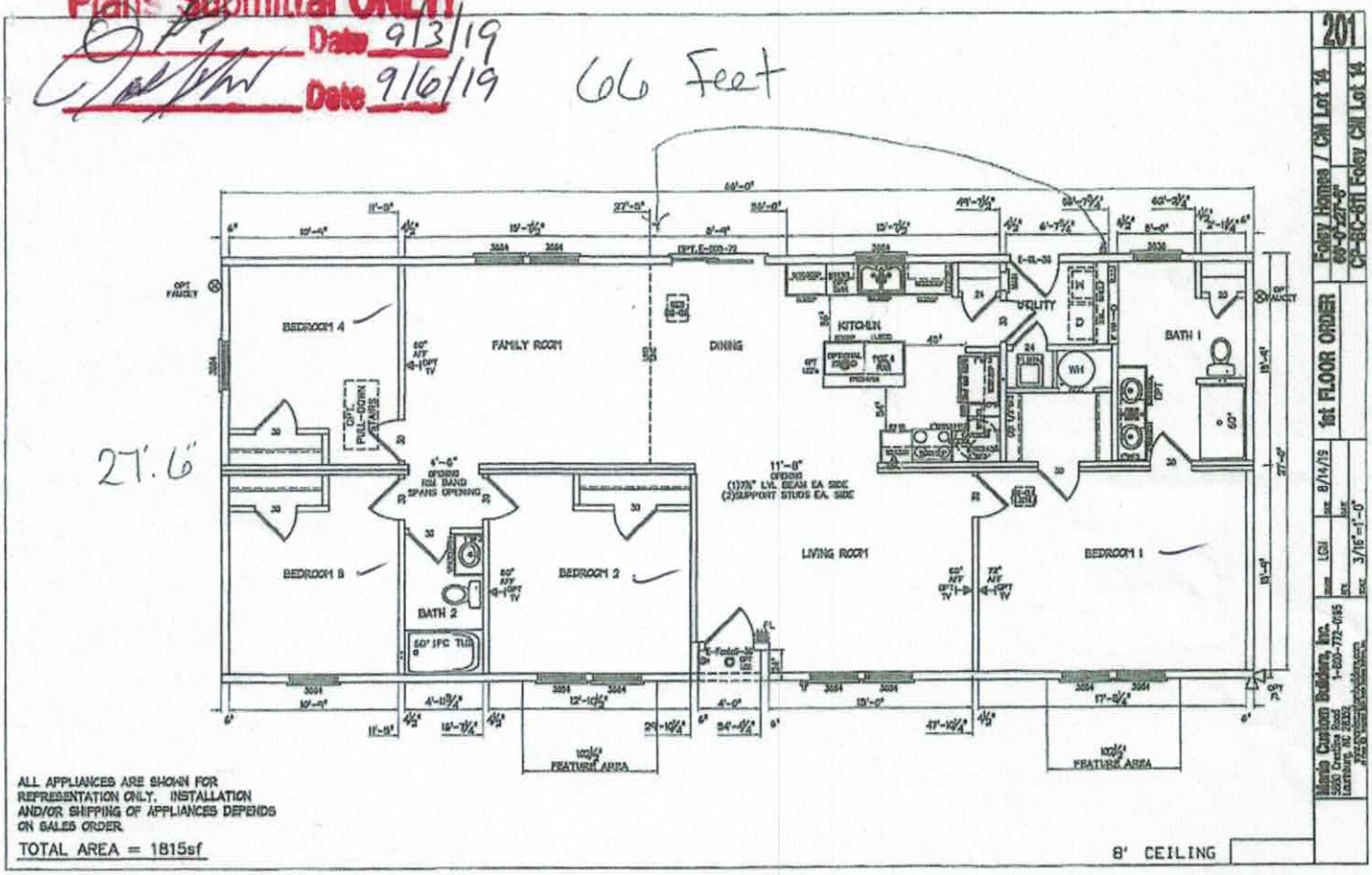
Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

115 Grassland

Acknowledgement Of
Plans Submittal ONLY!
Date 9/3/19
Date 9/6/19

66 Feet



27'.6"

201
Foley Homes / CM Lot 14
CP-BC-611 Foley CM Lot 14
1st FLOOR ORDER
Monte Custom Builders, Inc.

ALL APPLIANCES ARE SHOWN FOR REPRESENTATION ONLY. INSTALLATION AND/OR SHIPPING OF APPLIANCES DEPENDS ON SALES ORDER.

TOTAL AREA = 1815sf

8' CEILING

~4x24 ramp turn rear of house

Heath Snow

From: Doug Foley <foley1301@gmail.com>
Sent: Thursday, September 5, 2019 2:35 PM
To: Heath Snow
Subject: 115 Grasslands Drive, Mooresville

Good Afternoon Mr. Snow,

I wanted to let you know that the house that is being constructed on Lot 14, 115 Grasslands Drive in Country Meadows Sub-Division is not going to have a garage built onto it, it is only the house that is being constructed.

If you should have any questions, please let me know. I can be reached at 856-404-5379 anytime. Thank you for your time.

Regards,
Doug Foley

--
Doug Foley
Foley Home Sales
1075 Blue Spruce Drive
Mooresville, NC 28115
856-404-5379
www.foleyhomesales.com

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. Report suspicious emails by clicking the "Report Phish" button.

IREDELL COUNTY

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

APPLICATION NUMBER
245668
Issue Date: 06/13/2019

ZONING PERMIT

Parcel Number	Street Address	Jurisdiction
4659349026.000	115 GRASSLAND DRIVE, MOORESVILLE, NC 28115	IREDELL COUNTY

Owner Information	Applicant Information
Owner: FOLEY HOME SALES LLC	Applicant: FOLEY HOME SALES LLC
Address: 1075 BLUE SPRUCE DRIVE	Address: 1075 BLUE SPRUCE DRIVE
MOORESVILLE, NC 28115	MOORESVILLE, NC 28115
Phone: 856-404-5379	Phone: 856-404-5379

Use Requested	Zone Code
MODULAR LOT 14	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
12.030	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: _____ Date: _____

Permit Number	181173	TOTAL FEES:	$ 77.25