IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 (BB) Mooresville Office (704) 660-3625 PERMIT # AP-311054

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

PIN # 4721318652

APPLICANT/OWNER: Nest Homes APPLICANT ADDRESS: 236 Raceway Dr. Suite 7 Mooresville NC 28117

SITE ADDRESS: 120 Spring View Dr. Statesville NC 28677 PHONE: 704-202-1524 ALT. PHONE N/A

SITE DIRECTIONS: East Monbo Rd to Levi Ln, T/L Powder Springs Dr T/L Spring View SAP CONTROLLED: ☐ YES ■ NO

SUBDIVISION: Powder Springs Creek SECTION: N/A LOT # 9 LOT AREA: .96ac DESIGN FLOW: 480 L.T.A.R.: 0.3

Septic Tank	1000	(gal)	STB	7100	Date	3/26/23	■ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI	
Pump Tank		(gal)	PT		Date		System Description:	25% Reduction			
Pump Make		Model			Serial #		Repair System Description:	25% Reduction			
# Nitrification Fields	1	# Lines	3		Linear Ft	400'	Maintenance Agreement Required:	☐ YES	■ NO		
Trench Width	36"	Trench Bottom Depth(Low-side)		18"	Gravel Depth	N/A	■ GRAVITY	☐ PRESSURE			

■ Residence	No. Bedrooms	4	**Water Supply**
☐ Business	No. Persons	8	■ Private
☐ Other	No. Employees		☐ Public
☐ Slab	■ Crawl Space		☐ Community
☐ Basement w/plumbing			☐ Basement w/o plumbing

Comments / Conditions: Per plan By Soil & Forestry Services of the Carolinas

INITIAL SITE SKETCH

This permit is issued pursuant to Section 11.(c) of SL 2018-114 using the signed and sealed LSS Evaluation attached here.

See plan by:Soil & Forestry Services of the Carolinas

AS BUILT SKETCH

11/35/27

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

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

Owner / Applicant Signature: Date: 1/15/21 Installed by: Patriot Septic

IMPROVEMENT PERMIT by: Date: 1/14/21 OPERATION PERMIT by: Date: 5/16/23

AUTHORIZATION TO CONSTRUCT by: Date: 3/7/22 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.

SPRING VIEW LANE
S51°44'55"E 121.14'
35' FRON
C9
S51°44'55"E 121.14' (TOT)
10.67'
110.47'
45.3'
35' FRONT BLDG LINE
HOUSE
(70' x 60')
DRIVE
C14
C15
47.4'
126.7'
10
1.027 Ac.
15' SIDE BLDG LINE
158'
4 R 123'
5 □ 74'
6 Y 76'
B 56'
Z P 33'
1 Y 148'
2 B 140'
3 P 123'
4 R 120'
5 □ 100'
6 Y 72'
7 B 60'
8 P 40'
9
0.960 Ac.
N31°07'52"E 224.62'
S51°44'55"E 171.32'
11
1.008
12 □ 70'
13 Y 70'
14 B 68'
15 P 58'
16 R 55'
17 □ 52'
1223'
S4°56'19"E 43.40'
ADDITIONAL AREA
1 P 135'
2A R 113'
3 □
125.10'
P38
P42
P43
P44
P45
P46
P47
P48
P49
P50
P51
P52
P53
P54
P65
P33
P34
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SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 20-0059
September 10th, 2020

NEST HOMES
Attn: *Michael Wetter*
Email: mwetter@nesthomes.com

RE: Soil & Site Evaluation for a 4 Bedroom Residence on Lot 9 Powder Spring Creek Subdivision,0.960 ac Parcel, PIN# 4721412167, Powder Spring Drive, Statesville, NC 28677.

Mr. Wetter:

At your request Soil & Forestry Services of the Carolinas (S&FS) has performed soil/site evaluations on parcel noted above. The Lot size is noted on the attached survey map & soil evaluation form. The purpose of our work was to identify soil areas with potential to support subsurface wastewater disposal systems and provide design details for Session Law submittal to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly mixed pine/hardwood. Topography within the evaluated area was gently slope near the house site and proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Patterson Land Surveying. The client provided an Autocad File of a survey as a basemap. The proposed septic layout was located via Trimble Submeter GPS/tape measures and used to produce the attached *Site Plan*. The house envelope was located via Survey by Patterson Land Surveying.

Methodology

We evaluated soil areas through the use of backhoe pits. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with three pit locations on the property flagged and located via GPS. All of the backhoe pits are located in or adjacent to the proposed septic layout. Soil suitability was determined by referencing 15A NCAC 18A.1900 "Laws and Rules for Sewage Treatment and Disposal Systems". *Soil & Site Evaluation Forms* were utilized to record the soil morphological data for each pit. The house envelope was located via survey. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by GPS and tape measures. Detailed system & repair information is summarized in the following paragraph for this Lot.

Lot 9 (*See Attached Design*)
The septic layout for this lot (9' centers) yielded a total of 803 linear feet of line. The primary system is proposed as 400 linear feet of Accepted (25% Reduction) drainfield with gravity distribution. Trench depth is specified at 20 inches. The repair system is proposed as 400 linear feet of Accepted (25% Reduction) drainfield with gravity distribution. There is 403 linear feet available for repair. Trench depth is specified at 20 inches.

Session Law Requirements

An LSS Evaluation may be submitted in conjunction with a complete application to the LHD. The application shall include all information described in 15A NCAC 18A .1937(d) and be accompanied by a signed and dated statement from the applicant (owner or owner's legal representative) that reads as follows:

"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 Date

Print Name Eric Wood
Signature Eric M Wood 9/14/20

The LSS Evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

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

Disclaimer
This report reflects the findings of S&FS, PA. *This LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c).* Any site modifications that impact the proposed septic areas on Lot 9 of Powder Spring Creek Subdivision may nullify this design. System design requirements and site requirements shall be adhered to for installation and Operations Permits to be issued by the local Health Department. If you have questions regarding these requirements a Pre-Construction meeting should be scheduled to discuss. Please contact S&FS if you have any questions regarding this report or the attached information. S&FS also offers septic system inspection, wetland delineation and forestry services.

Sincerely,



S. Ashley Rollans, LSS
Attachment: *Septic Design*

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Attached is a proposed design for an Accepted Septic System with gravity dist. for a 4 bedroom single family residence on Lot 9 Powder Spring Creek Subdivision, Statesville 28677, Iredell County, NC. PIN#: 4721412167

Contents: **Page**

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

9/10/2020
Project #: 20-0059
Design By: Soil & Forestry Services of the Carolinas, PA

INFORMATION FOR THE INSTALLER:

The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.

- Tanks shall be approved by NC DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a gravity 25% reduction (Accepted) installation.
- Repair is specified as a gravity 25% reduction (Accepted) installation .

GRAVITY ACCEPTED SYSTEM FOR WASTEWATER TREATMENT

Owner/Applicant:	Nest Homes
Address:	236 Raceway Drive (Suite 7) Mooresville, NC 28117
Phone:	704.202.1524
County:	Iredell
Location:	Powder Spring Drive Lot 9
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	480
System Flow:	N/A

Design Specifications

Drainfield Size:	400	
Loading Rate (gpd/ft.^{2}):	0.3	
Depth of Gravel in Trench:	N/A	
Gravel Size:	N/A	
Max.Trench Depth (Low Side):	18 in.	Repair Trench Bottom 18 in.
Trench Width:	36 in.	
Septic Tank Size:	1000	

Estimated Supply Line Length:	40
Supply Line Diameter:	4 in. SCH 40 PVC
Supply Line Volume:	26.12
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 Soil & Forestry Services of the Carolinas, PA

Powder Spring Drive

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	1200
TOTAL LATERAL LENGTH:	400
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	400
SUPPLY LINE LENGTH:	40
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 - Powder Spring Creek - Lot 9

Project #: 20-0059

LAYOUT FOR 4 BEDROOM HOME

9/10/2020

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	***YELLOW***					***148***	***148***
2	***BLUE***					***140***	***140***
3	***PINK***					***123***	***112***
4	RED					120	120
5	ORANGE					100	100
6	YELLOW					72	72
7	BLUE					60	60
8	PINK					40	40
					Total	803	792

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	Low Side MAX TRENCH DEPTH
****System***	***400***	***0.300***	***ACCEPT.***	***0.300***	***25% RED***	***GRAVITY***	18"
Repair	403	0.300	***ACCEPT.***	0.300	***25% RED***	GRAVITY	18"
	392' + 11' on #3 Pink						

Notes: **All measures in feet

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

**Nitrification lines were located by GPS and tape measure.

**House Envelope, Property corners & lines located by survey (Patterson Land Surveyors)

CALCULATIONS

Location	Powder Spring Creek Subdivision Off Levi Lane	
Project Number	20-0059	
Lot No:	9	
No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.300	$^{gal}/_{ft^2\,day}$
PPBPS? (YES OR NO)	NO	
Supply Line Length	40	ft.
Supply Line Volume	26.12	gal.
Required Feet of Line	400	ft.
Amount of Line from Layout	400	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

RECEIVED SEP 1 8 2020

Paid $500.00

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

AP-311054

Application For: ( ) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(✓) 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: ( ) 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: Nest Homes **Address:** 236 Raceway Dr. Suite 7, Mooresville NC **Zip:** 28117
Applicant Email: mwetter@nesthomes.com **Phone:** 704.202.1524 **Alt. Phone:**
Owner Name: Nest Homes **Address:** 236 Raceway Dr. Suite 7, Mooresville NC **Zip:** 28117
Owner Email: mwetter@nesthomes.com **Phone:** 704.202.1524 **Alt. Phone:**

Property Information:

Street Address: 120 Spring View Ln. Statesville NC 28677
Subdivision Name: Powder Spring Creek **Section/Phase:** **Lot Number:** 9
Driving Directions: East Monbo Rd to Levi Lane, Left

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

(✓) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
( ) Bedroom(s) Addition
( ) Repair to failing septic system ___ Tank ___ Drain lines **Describe Problem:**
Non-Residential Site Development: **Type of Business:**
Square Footage of Building: **Max. Number of Employees:** **Max. Number of Seats/Beds/Other:**

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

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

Water Supply: ( ) Replacement Well – Reason:
( ) Multi-connection Well **Number of Houses:** **Number of Persons:**
(✓) 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 ( ) Innovative ( ) Modified Conventional (✓) Other: Accepted

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: _____ 9/10/20
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) **DATE**

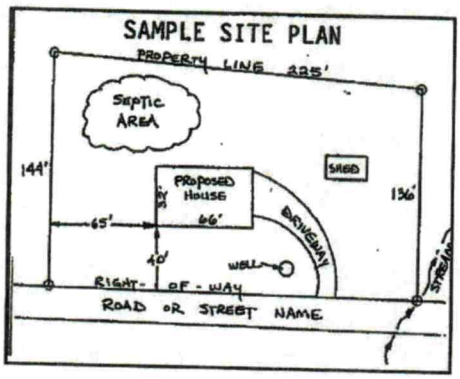
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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 OR WELL 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**
- (X) **Preferred well location**
- (X) **Preferred septic system location**
- (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

Signature: _____ 9/10/20

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

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet 1 of 1
PROPERTY ID #: 4724141216
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Nest Homes (Buyer)
ADDRESS: 236 Raceway Dr. Suite 7, Mooresville NC 28117
PROPOSED FACILITY: 4BR
LOCATION OF SITE: Lot 9 Powder Spring Creek Subdivision
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
PROPOSED DESIGN FLOW (.1949): 480 gpd
APPLICATION DATE
DATE EVALUATED: 2020
PROPERTY SIZE: 5.96 AC
PROPERTY RECORDED:
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
P 50	L/13%	0-8	BSL Gr	Fr SS SP SE XP					PS
		8-14	RBSCL wfsbk	Fr SS SP SE XP					
		14-34	2RSC wmsbk	Fr SS SP SE XP	+ Few Fe Depl.	60	-	-	.3
		34-60	RC wmsbk	F SS SP	+ Few SAP Inc.				
P 51	L/11%	0-6	RBSCL wfsbk	Fr SS SP SE XP					PS
		6-17	RC wmsbk	Fr SS SP SE XP					
		17-36	RBSCL wfsbk	Fr SS SP SE XP	Few to C. SAP	36	PS	-	0.35+
		36-64	VAR SL MASS	Fr SS SP					
P 52	L/11-12%	0-5	BSCL wfsbk	Fr SS SP SE XP					PS
		5-22	RC wmsbk/MK	Fr SS SP SE XP					
		22-36	RBSCL wfsbk	Fr SS SP	+ C. SAP	36	PS	-	0.3
		36-69	VAR SL MASS	Fr SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Accepted 25%	Accepted 25%
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. Ashley Rollins
OTHER(S) PRESENT: Wendell Overby, Chad Wagner

COMMENTS:

ENVIRONMENTAL HEALTH REQUIREMENTS for SEPTIC and WELL PERMITS

The following items must be completed *PRIOR* to the *SUBMITTAL* of any Environmental Health Application. Incomplete applications will be returned to the applicant and cannot be processed or placed on the work list.

***** Initial all lines below to indicate you have submitted each form and completed every site requirement *****

S.A.R. **Complete all Environmental Health forms:**
- ✓ Application
- ✓ Site Plan with dimensions of proposed structure, addition, pool etc.
- ✓ Documentation to Authorize Owner Agent (if the property owner is not the applicant)
- ✓ Copy of Zoning Permit when applicable
- ____ Sign this sheet after you have completed all items

S.A.R. **Lot must be cleared of heavy undergrowth.** In order to evaluate the lot, the footprint of the proposed structure must be visible. Adequate area for the septic drain field and repair area must be sufficiently cleared of heavy undergrowth, with **50 feet of visibility** in all directions. Inspectors must be able to evaluate the property, shoot laser level elevations, layout the drain field, do soils work, etc. **If the lot is not cleared sufficiently, then a $100 site revisit fee will be charged and the evaluation will be put on HOLD until the requirement is met.**

S.A.R. **Clearly mark all property corners by locating existing iron or concrete markers.** Flag all property lines every 25 feet if adjacent corners are not visible when standing on any given corner. Property lines must be flagged by a licensed NC surveyor & easily identified **prior to application submittal** (exception may apply for septic repair evaluations only). 'Mow lines' and/or fence lines do NOT constitute marked lines. **If the property lines are not properly marked when the lot is ready to be evaluated, then the application will be put on HOLD and a $100 site re-visit fee charged.**

S.A.R. **Stake or flag the footprint of the proposed structure, addition, pool etc. to match the site plan submitted.** The proposed structure, etc. **must be staked** out on the property as per the site plan.

S.A.R. If an **Authorization to Construct (AC) is desired**, submit a recorded copy of the plat for newly created or subdivided lot(s) and a LEGIBLE copy of the basic floor plan no larger than 8 ½" x 14" for each floor of the structure including decks, porches, etc. **The overall dimensions must be clearly noted & the rooms labeled.**

Any site not meeting the above requirements when staff arrives for the evaluation will result in a $100 site revisit fee being charged and the request being placed on HOLD. This will delay the processing of the application.
Once work by Environmental Health staff begins, the up-front fees paid toward securing any health department permit are non-refundable. Refunds for work not started, due to a customer changing their mind or plans, are subject to an administrative fee of $50 to defray a portion of the costs of processing the refund.

Backhoe pits are required for all applications that require a soils evaluation.
DO NOT DIG PITS UNTIL THE EH SPECIALIST HAS AUTHORIZED AND SCHEDULED YOUR EVALUATION TIME.
- **All utilities shall be marked before pits are dug. Call NC 811 for this service.**
- **The applicant/agent is responsible for securing these services**
- **Backhoe pits are to be dug at the locations and depths determined by the Environmental Health Specialist or a NC Licensed Soil Scientist. A minimum of four pits must be dug.**
- **The EH specialist will contact you when your application is ready to be processed for pit scheduling.**
- **Your backhoe operator must be on site during the EH Specialist's evaluation to prevent your operator from having to return to the property for additional work.**

By signing below I am acknowledging the above specifications have been met and the site is READY to be evaluated AND I understand the backhoe pit requirement and will secure those services (if applicable).

Signature _____ **Date** 9/10/20

Questions? Contact the Environmental Health Offices below:

Statesville Office
349 North Center Street (2nd Floor Building Standards)
Statesville, NC 28677-4063
Phone: (704)878-5305 ext. 3456

Mooresville Office
610 East Center Avenue (2nd Floor Govt. Center South)
Mooresville, NC 28115-2548
Phone: (704)660-3625

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, * Eric Wood, am the legal owner(s) of the property located at *, identified as PIN (Parcel Identification Number) 4721412607 Lot 9, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Soil & Forestry, 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.

* Eric M Wood — Signature of Owner(s)
* 9/14/20 — Date
Julie [illegible] — Signature of Witness
9/14/20 — 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

Lot 9

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

APPLICATION NUMBER
311054 Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4721412167.000	EAST MONBO RD	Iredell County

Owner Information	Applicant Information
Name: RH FUND XII LLC	Name: SILLS SPRINGS DEVELOPMENT LLC
Address: 2250 NW FLANDERS ST STE G02	Address: P.O. BOX 3965
PORTLAND, OR 97210	MOORESVILLE, NC 28117
Phone:	Phone: (704)208-4251

Use Requested	Zone Code
Single Family Dwelling	R-20 CUD

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0	35	35	15	15	WSIV-PA Catawba/Lake Norman	YES

Remarks
SFD - 120 SPRING VIEW - HOLD BU UNTIL PLAT HAS BEEN RECORDED

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.

Date: 09/18/2020

Signature of Owner/Contractor

Permit Number	311054	TOTAL FEES:	$77.25

IREDELL COUNTY · NC

Cash Register Receipt

Iredell County

Receipt Number
R7467

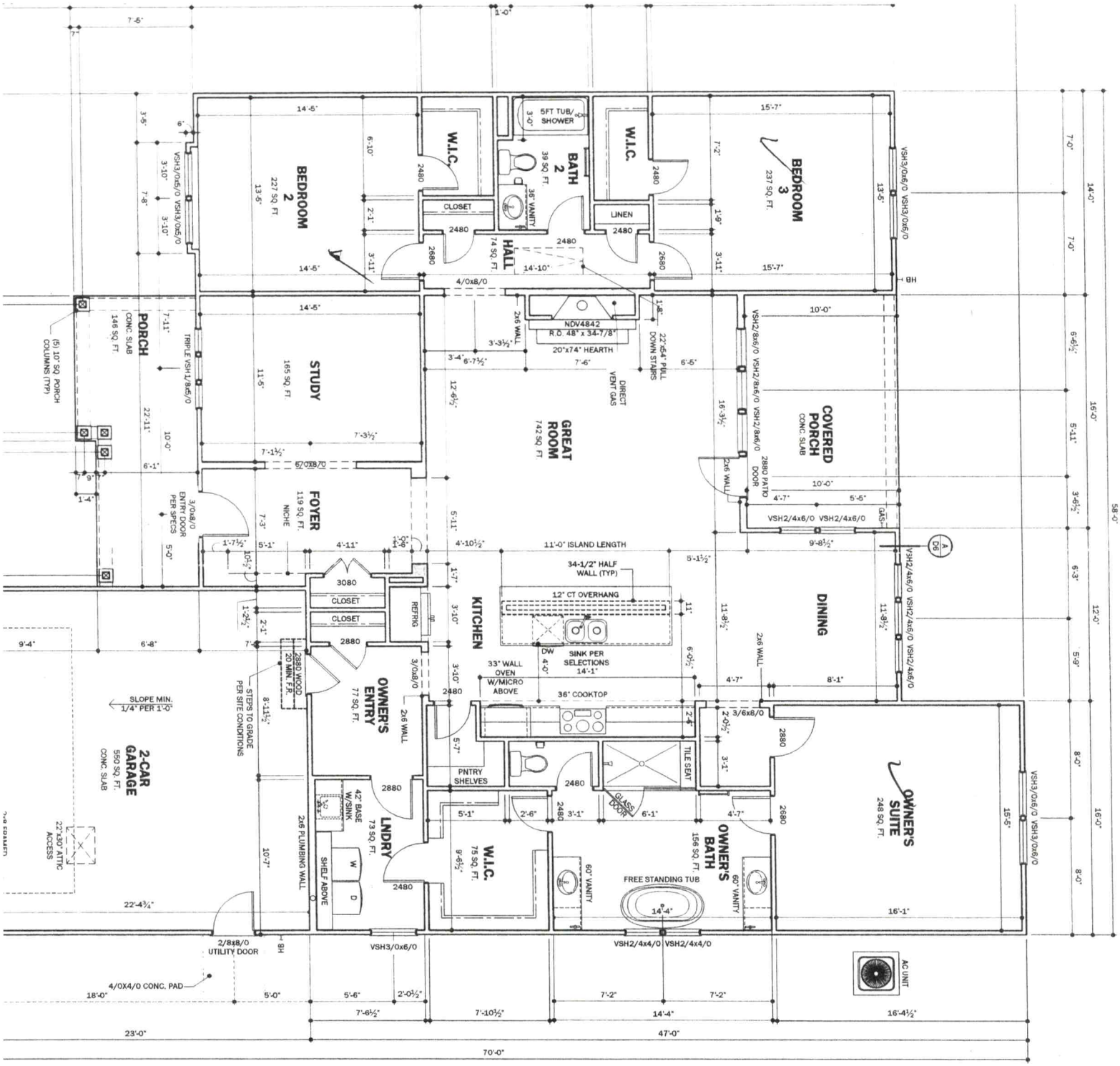
DESCRIPTION	ACCOUNT	QTY	PAID
PermitTRAK			**$577.25**
AP-311054 Address: EAST MONBO RD APN: 4721412167.000			**$577.25**
EH NEW SYSTEM PERMITS			$500.00
GRAVITY SYSTEM	10492751-447004	0	$500.00
ZONING			$77.25
ZONING PERMIT	104563-472223	0	$75.00
TECH FEE ZONING	104563-460450	0	$2.25
TOTAL FEES PAID BY RECEIPT:R7467			**$577.25**

Date Paid: Friday, September 18, 2020

Paid By: NEST HOMES LLC

Cashier: SML

Pay Method: CHECK 8168



nowledgement Of
s Submittal ONLY!
Date 2/28/22
Date 3/7/21

RECEIVED FEB 2 8 2022

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Application For: (X) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
( ) Septic Improvement Permit (X) 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: ( ) 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: Nest Homes LLC **Address:** PO Box 3965 , Mooresville NC **Zip:** 28117

Applicant Email: hposton@nesthomes.com **Phone:** 980-500-1238 **Alt. Phone:** _____

Owner Name: Sills Springs Development LLC **Address:** PO Box 3965 , Mooresville NC **Zip:** 28117

Owner Email: hposton@nesthomes.com **Phone:** 980-500-1238 **Alt. Phone:** _____

Property Information:

Street Address: 120 Spring View Lane, Statesville NC 28677

Subdivision Name: Powder Spring Creek **Section/Phase:** _____ **Lot Number:** 9

Driving Directions: Hwy 21/ 115 - West on Old Mountian Rd, left on East Monbo Rd, Right on Levi Ln, Left on Powder Spring Dr; left on Spring View Ln- parcel is on right

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

CHECK FOUNDATION TYPE

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

( ) Crawl Space Foundation
(X) 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 ( ) Innovative (X) 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: Heather Poston 02/28/22

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

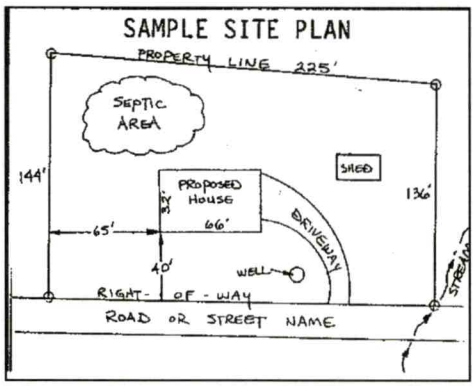
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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 OR WELL PERMIT!!!*

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

- **( ) Property Line measurements are clearly identified**
- **( ) All proposed structures are indicated**
- **( ) Front and side setbacks from property line**
- **( ) Preferred driveway location**
- **( ) Preferred well location**
- **( ) Preferred septic system location**
- **( ) 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

**** Please see attached plot plan ****

Signature: Heather Poston — 02/28/22

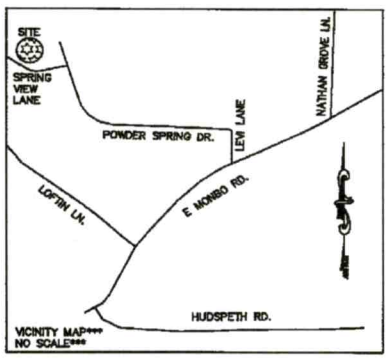
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) — **DATE**

DAS DON ALLEN & ASSOCIATES, P. A.
"Since 1971"
Commercial * Residential * Mortgage Surveys * Multi-Family
Construction Staking * Subdivision Design * Topographical
131 Crosslake Park Drive – Suite 102 * Mooresville * NC * 28117
(704) 664-7029 (704) 664-8041 Fax

I, certify that this map was drawn under my supervision from an actual survey made under my supervision recorded in deed book 2788, page 1944, and/or plat book 72, page 108, 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 22, day of FEBRUARY, A.D. 20 22.

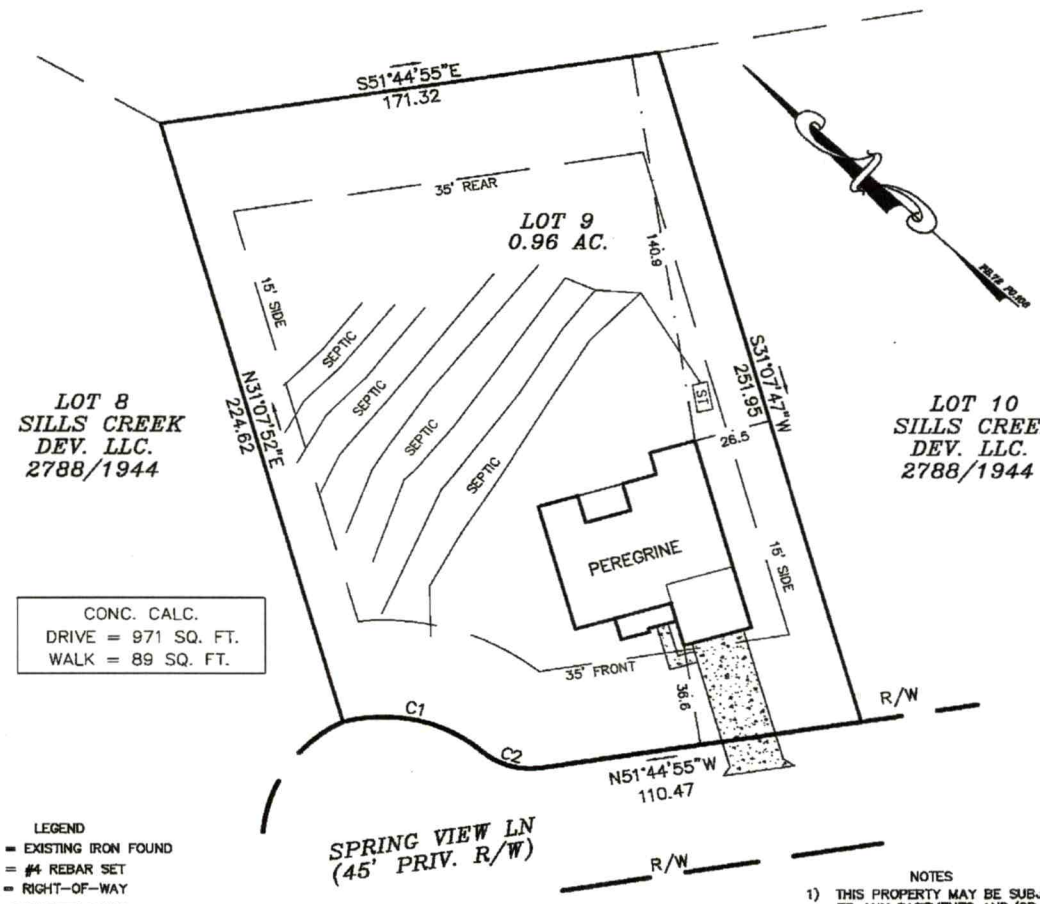
WILLIAM M. ALLEN

NORTH CAROLINA PROFESSIONAL SEAL L-3499 LAND SURVEYOR WILLIAM M. ALLEN



LOT 8
SILLS CREEK
DEV. LLC.
2788/1944

CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	50.00'	50.46'	N 29°57'25" W	48.35'
C2	25.00'	22.12'	S 26°23'48" E	21.41'



LOT 8
SILLS CREEK
DEV. LLC.
2788/1944

LOT 10
SILLS CREEK
DEV. LLC.
2788/1944

CONC. CALC.
DRIVE = 971 SQ. FT.
WALK = 89 SQ. FT.

LEGEND
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY
CP = COMPUTED POINT

0' 25' 50' 100'
SCALE IN FEET

NOTES
1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.
5) SETBACKS SHOWN PER PLAT (PB.72 PG.108)

PLOT PLAN SURVEY

OF

120 SPRING VIEW LN

LOT 9 POWDER SPRING CREEK

SCALE 1" = 50'

FALLSTOWN TWSP., IREDELL., N.C.

ACQUIRED BY: NEST HOMES LLC

FIELD BOOK:
FILE: POWDER SPRING CREEK 9
DC FILE:
TAX. MAP NO: 4721318652.000

IREDELL COUNTY HEALTH DEPARTMENT

Statesville Office (704) 878-5305 (BB) Mooresville Office (704) 660-3625 PERMIT # AP-311054

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

PIN # 4721318652

APPLICANT/OWNER: Nest Homes APPLICANT ADDRESS: 236 Raceway Dr. Suite 7 Mooresville NC 28117

SITE ADDRESS: 120 Spring View Dr. Statesville NC 28677 PHONE: 704-202-1524 ALT. PHONE N/A

SITE DIRECTIONS: East Monbo Rd to Levi Ln, T/L Powder Springs Dr T/L Spring View

SAP CONTROLLED: ☐ YES ■ NO

SUBDIVISION: Powder Springs Creek SECTION: N/A LOT # 9 LOT AREA: .96ac DESIGN FLOW: 480 L.T.A.R.: 0.3

Septic Tank	1000 (gal)	STB	Date	■ 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: 25% Reduction	☐ Business	No. Persons 8	■ Private
Pump Make		Model	Serial #	Repair System Description: 25% Reduction	☐ Other	No. Employees	☐ Public
# Nitrification Fields	1	# Lines 3	Linear Ft: 400'	Maintenance Agreement Required: ☐ YES ■ NO	☐ Slab	■ Crawl Space	☐ Community
Trench Width	36"	Trench Bottom Depth(Low-side)	18"	Gravel Depth: N/A ■ GRAVITY ☐ PRESSURE	☐ Basement w/plumbing		☐ Basement w/o plumbing

Comments / Conditions: Per plan By Soil & Forestry Services of the Carolinas

INITIAL SITE SKETCH

This permit is issued pursuant to Section 11.(c) of SL 2018-114 using the signed and sealed LSS Evaluation attached here.

See plan by:Soil & Forestry Services of the Carolinas

AS BUILT SKETCH

COPY

---IMPROVEMENT PERMIT ONLY---

DO NOT ISSUE BUILDING PERMIT!

FLOOR PLAN STILL NEEDED!

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: Kayla Arms Date: 11/15/21 Installed by:

IMPROVEMENT PERMIT by: Date: 11/14/21 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Date: 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.

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 20-0059
September 10th, 2020

NEST HOMES
Attn: *Michael Wetter*
Email: mwetter@nesthomes.com

RE: Soil & Site Evaluation for a 4 Bedroom Residence on Lot 9 Powder Spring Creek Subdivision,0.960 ac Parcel, PIN# 4721412167, Powder Spring Drive, Statesville, NC 28677.

Mr. Wetter:

At your request Soil & Forestry Services of the Carolinas (S&FS) has performed soil/site evaluations on parcel noted above. The Lot size is noted on the attached survey map & soil evaluation form. The purpose of our work was to identify soil areas with potential to support subsurface wastewater disposal systems and provide design details for Session Law submittal to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly mixed pine/hardwood. Topography within the evaluated area was gently slope near the house site and proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Patterson Land Surveying. The client provided an Autocad File of a survey as a basemap. The proposed septic layout was located via Trimble Submeter GPS/tape measures and used to produce the attached *Site Plan*. The house envelope was located via Survey by Patterson Land Surveying.

Methodology

We evaluated soil areas through the use of backhoe pits. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with three pit locations on the property flagged and located via GPS. All of the backhoe pits are located in or adjacent to the proposed septic layout. Soil suitability was determined by referencing 15A NCAC 18A.1900 "Laws and Rules for Sewage Treatment and Disposal Systems". *Soil & Site Evaluation Forms* were utilized to record the soil morphological data for each pit. The house envelope was located via survey. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by GPS and tape measures. Detailed system & repair information is summarized in the following paragraph for this Lot.

Lot 9 *(See Attached Design)*
The septic layout for this lot (9' centers) yielded a total of 803 linear feet of line. The primary system is proposed as 400 linear feet of Accepted (25% Reduction) drainfield with gravity distribution. Trench depth is specified at 20 inches. The repair system is proposed as 400 linear feet of Accepted (25% Reduction) drainfield with gravity distribution. There is 403 linear feet available for repair. Trench depth is specified at 20 inches.

Session Law Requirements

An LSS Evaluation may be submitted in conjunction with a complete application to the LHD. The application shall include all information described in 15A NCAC 18A .1937(d) and be accompanied by a signed and dated statement from the applicant (owner or owner's legal representative) that reads as follows:

"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 Date

Print Name Eric Woop
Signature Eric M Woop 9/14/20

The LSS Evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

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

Disclaimer
This report reflects the findings of S&FS, PA. *This LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c).* Any site modifications that impact the proposed septic areas on Lot 9 of Powder Spring Creek Subdivision may nullify this design. System design requirements and site requirements shall be adhered to for Installation and Operations Permits to be issued by the local Health Department. If you have questions regarding these requirements a Pre-Construction meeting should be scheduled to discuss. Please contact S&FS if you have any questions regarding this report or the attached information. S&FS also offers septic system inspection, wetland delineation and forestry services.

Sincerely,

S. Ashley Rollans, LSS
Attachment: *Septic Design*

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

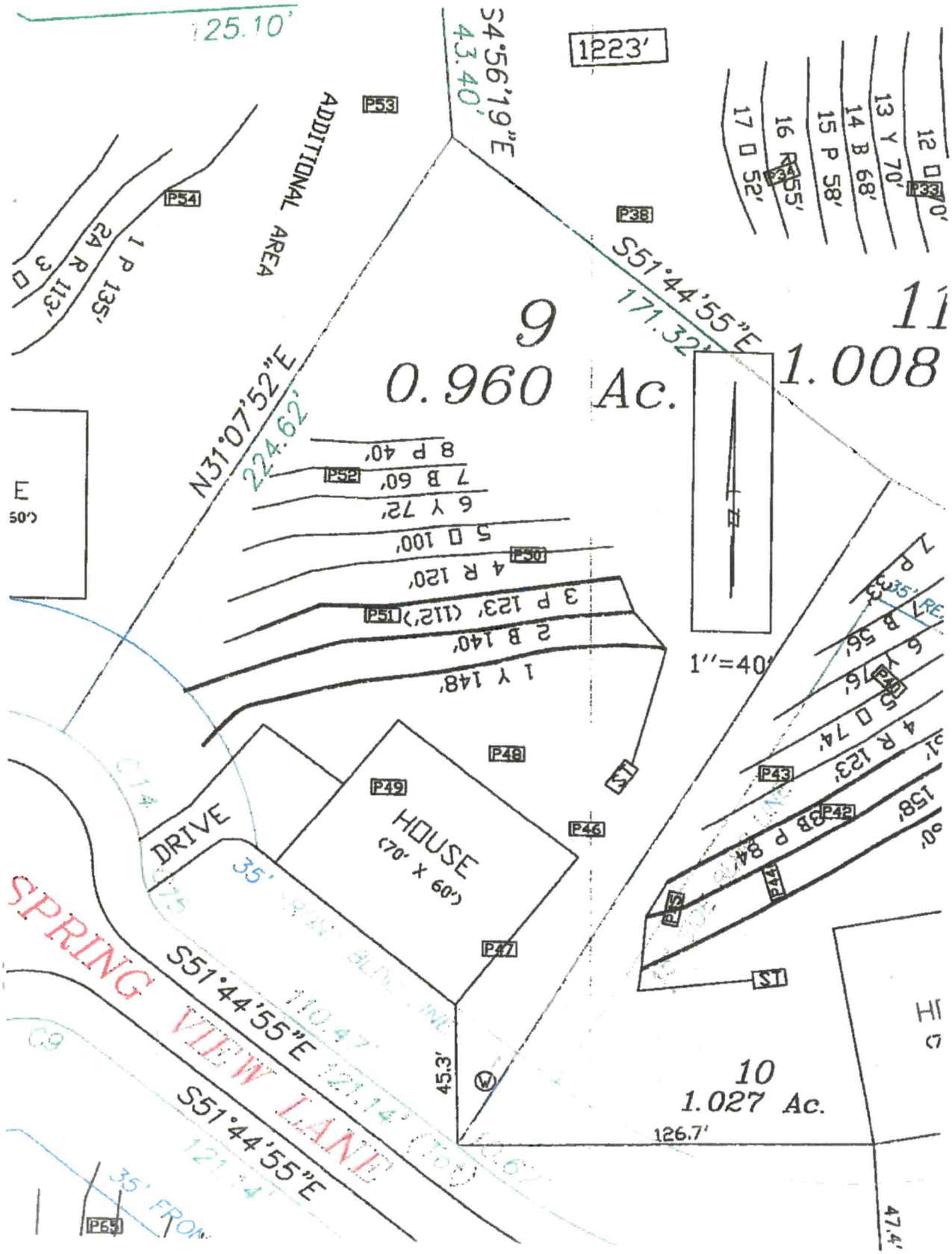
www.soilandforestryservices.com

Attached is a proposed design for an Accepted Septic System with gravity dist. for a 4 bedroom single family residence on Lot 9 Powder Spring Creek Subdivision, Statesville 28677, Iredell County, NC. PIN#: 4721412167

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
Zoning Permit & Reccipt	9-11
Application	12-13
Green Sheet	14
Agent Authorization Form	15

9/10/2020
Project #: 20-0059
Design By: Soil & Forestry Services of the Carolinas, PA


125.10'
S4°56'19"E
43.40'
1223'
P53
ADDITIONAL AREA
P54
P38
S51°44'55"E
171.32'
9
0.960 Ac.
N31°07'52"E
224.62'
P52
P50
P51
1"=40'
P48
P49
HOUSE
(70' x 60')
P46
P47
DRIVE
SPRING VIEW LANE
S51°44'55"E
110.47'
S51°44'55"E
121.14'
45.3'
10
1.027 Ac.
126.7'
47.4'
P43
P42
P65
35' FRON

CALCULATIONS

Location: Powder Spring Creek Subdivision
Off Levi Lane
Project Number: 20-0059

Lot No: 9

No. of Bedrooms: 4

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

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

PPBPS? (YES OR NO): NO

Supply Line Length: 40 ft.

Supply Line Volume: 26.12 gal.

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

INFORMATION FOR THE INSTALLER:

The permit should be read very carefully prior to bidding. The following are details that must be considered along with all other considerations.

- Tanks shall be approved by NC DHHS, and certification supplied by the manufacturer.
- Tanks shall be water tested prior to installation.
- The installer shall be responsible to the owner for placement of the tanks and to insure that final grades are returned to the original natural grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy bodied glue applied to weld all joints.
- Where required by the county health department, post installation inspections by the designer must be scheduled 5 week days in advance.
- Trenches shall be carefully excavated so the bottom is within 2" from the highest to . the lowest points of elevation within the trench. If the bottom elevation needs adjusting after it has been trenched, it will be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over excavated during initial trenching. All fine grading within the trench will be hand done with a shovel. No loose material will be left in the trench
- All pipe openings in the tanks shall be properly grouted. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent slump at a later date.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pinflag locations should be checked by the installer prior to beginning trenches.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a gravity 25% reduction (Accepted) installation.
- Repair is specified as a gravity 25% reduction (Accepted) installation .

GRAVITY ACCEPTED SYSTEM FOR WASTEWATER TREATMENT

Owner/Applicant:	Nest Homes
Address:	236 Raceway Drive (Suite 7) Mooresville, NC 28117
Phone:	704.202.1524
County:	Iredell
Location:	Powder Spring Drive Lot 9
Source of Wastewater Flow:	4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	480
System Flow:	N/A

Design Specifications

Drainfield Size:	400	
Loading Rate (gpd/ft.^{2}):	0.3	
Depth of Gravel in Trench:	N/A	
Gravel Size:	N/A	
Max.Trench Depth (Low Side):	18 in.	Repair Trench Bottom 18 in.
Trench Width:	36 in.	
Septic Tank Size:	1000	

Estimated Supply Line Length:	40
Supply Line Diameter:	4 in. SCH 40 PVC
Supply Line Volume:	26.12
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 Soil & Forestry Services of the Carolinas, PA

Powder Spring Drive

ACCEPTED SYSTEM

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	1200
TOTAL LATERAL LENGTH:	400
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	400
SUPPLY LINE LENGTH:	40
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 - Powder Spring Creek - Lot 9

Project #: 20-0059

LAYOUT FOR 4 BEDROOM HOME

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	9/10/2020 DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	***YELLOW***						
2	***BLUE***					*148*	*148*
3	***PINK***					*140*	*140*
4	RED					*123*	*112*
5	ORANGE					120	120
6	YELLOW					100	100
7	BLUE					72	72
8	PINK					60	60
						40	40
					Total	803	792

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	Low Side MAX TRENCH DEPTH
** System*	*400*	*0.300*	*ACCEPT.*	*0.300*	*25% RED*	*GRAVITY*	18"
Repair	403	0.300	*ACCEPT.*	0.300	*25% RED*	GRAVITY	18"

392' + 11' on #3 Pink

Notes: **All measures in feet

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

**Nitrification lines were located by GPS and tape measure.

**House Envelope, Property corners & lines located by survey (Patterson Land Surveyors)

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*) _____

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, Eric Wood of Sills Springs Development LLC, am the legal owner(s) of the property located at 120 Spring View Lane, Statesville NC 28677, identified as

PIN (Parcel Identification Number) 4721318652.000, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) Heather Poston, Nest Homes LLC, 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.

Eric Wood
Signature of Owner(s)

02/28/22
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

ENVIRONMENTAL HEALTH REQUIREMENTS for SEPTIC and WELL PERMITS

The following items must be completed *PRIOR* to the *SUBMITTAL* of any Environmental Health Application. Incomplete applications will be returned to the applicant and cannot be processed or placed on the work list.

*** Initial all lines below to indicate you have submitted each form and completed every site requirement ****

HP **Complete all Environmental Health forms**:
- x Application
- x Site Plan with dimensions of proposed structure, addition, pool etc.
- x Documentation to Authorize Owner Agent (if the property owner is not the applicant)
- x Copy of Zoning Permit when applicable
- x Sign this sheet after you have completed all items

HP **Lot must be cleared of heavy undergrowth.** In order to evaluate the lot, the footprint of the proposed structure must be visible. Adequate area for the septic drain field and repair area must be sufficiently cleared of heavy undergrowth, with **50 feet of visibility** in all directions. Inspectors must be able to evaluate the property, shoot laser level elevations, layout the drain field, do soils work, etc. **If the lot is not cleared sufficiently, then a $100 site revisit fee will be charged and the evaluation will be put on HOLD until the requirement is met.**

HP **Clearly mark all property corners by locating existing iron or concrete markers**. Flag all property lines every 25 feet if adjacent corners are not visible when standing on any given corner. Property lines must be flagged by a licensed NC surveyor & easily identified **prior to application submittal** (exception may apply for septic repair evaluations only).
'Mow lines' and/or fence lines do NOT constitute marked lines. **If the property lines are not properly marked when the lot is ready to be evaluated, then the application will be put on HOLD and a $100 site re-visit fee charged**.

HP **Stake or flag the footprint of the proposed structure, addition, pool etc. to match the site plan submitted.** The proposed structure, etc. **must be staked** out on the property as per the site plan.

HP If an **Authorization to Construct (AC) is desired**, submit a recorded copy of the plat for newly created or subdivided lot(s) and a LEGIBLE copy of the basic floor plan no larger than 8 ½" x 14" for each floor of the structure including decks, porches, etc. **The overall dimensions must be clearly noted & the rooms labeled.**

Any site not meeting the above requirements when staff arrives for the evaluation will result in a $100 site revisit fee being charged and the request being placed on HOLD. This will delay the processing of the application.
Once work by Environmental Health staff begins, the up-front fees paid toward securing any health department permit are non-refundable. Refunds for work not started, due to a customer changing their mind or plans, are subject to an administrative fee of $50 to defray a portion of the costs of processing the refund.

Backhoe pits are required for all applications that require a soils evaluation.
DO NOT DIG PITS UNTIL THE EH SPECIALIST HAS AUTHORIZED AND SCHEDULED YOUR EVALUATION TIME.
- **All utilities shall be marked before pits are dug. Call NC 811 for this service.**
- **The applicant/agent is responsible for securing these services**
- **Backhoe pits are to be dug at the locations and depths determined by the Environmental Health Specialist or a NC Licensed Soil Scientist. A minimum of four pits must be dug.**
- **The EH specialist will contact you when your application is ready to be processed for pit scheduling.**
- **Your backhoe operator must be on site during the EH Specialist's evaluation to prevent your operator from having to return to the property for additional work**.

By signing below I am acknowledging the above specifications have been met and the site is READY to be evaluated AND I understand the backhoe pit requirement and will secure those services (if applicable).

Signature Heather Poston **Date** 02/28/22

Questions? Contact the Environmental Health Offices below:

Statesville Office
349 North Center Street (2nd Floor Building Standards)
Statesville, NC 28677-4063
Phone: (704)878-5305 ext. 3456

Mooresville Office
610 East Center Avenue (2nd Floor Govt. Center South)
Mooresville, NC 28115-2548
Phone: (704)660-3625

IREDELL COUNTY · NC

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

APPLICATION NUMBER
311054 Issue Date: 09/18/2020

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4721412167.000	EAST MONBO RD	Iredell County

Owner Information	Applicant Information
Name: RH FUND XII LLC	Name: SILLS SPRINGS DEVELOPMENT LLC
Address: 2250 NW FLANDERS ST STE G02	Address: P.O. BOX 3965
PORTLAND, OR 97210	MOORESVILLE, NC 28117
Phone:	Phone: (704)208-4251

Use Requested	Zone Code
Single Family Dwelling	R-20 CUD

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0	35	35	15	15	WSIV-PA Catawba/Lake Norman	YES

Remarks
SFD - 120 SPRING VIEW - LOT 9 - HOLD BU TIL PLAT RECORDED

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.

Signature of Owner/Contractor

Date: 09/18/2020

Permit Number	311054

TOTAL FEES:	$77.25