ICHD - ENVIRONMENTAL HEALTH DIVISION

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

PERMIT # AP312536

PIN # 4649 -29 -4946

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

APPLICANT/OWNER: Nest Homes

APPLICANT ADDRESS: 236 Raceway Drive Mooresville NC 28117

SITE ADDRESS: 111 Panther West Creek Rd Troutman NC 28166

PHONE: 704 402 8574 ALT. PHONE: —

SITE DIRECTIONS: Perth Rd to Clontz Hill Right Ridge Creek Rd Wiltshire to Panther Creek

SUBDIVISION: Wiltshire Creek

SAP CONTROLLED: ☐ YES ☒ NO

SECTION: — LOT # 53 LOT AREA: .52Ac

DESIGN FLOW: 360 L.T.A.R.: .80

Septic Tank 1000 (gal) STB 706 Date 6-4-21

Pump Tank 1000 (gal) PT 3623 Date 6-30-21

Pump Make Gould Model PES1M Serial #

Nitrification Fields 1 # Lines 6 Linear Ft: 304 300

Trench Width 36 in Trench Bottom Depth 30 in max Gravel Depth —

☒ New System ☐ Repair ☐ Expansion System Type: I II ☒ IV V VI

System Description: PM-25% Reduction

Repair System Description: LP-PPBPS-50% Reduction

Maintenance Agreement Required: ☐ YES ☒ NO

☐ GRAVITY ☒ PRESSURE

☒ Residence No. Bedrooms 3

☐ Business No. Persons 6

☐ Other No. Employees —

☒ Slab ☐ Crawl Space

☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions: Maintain 15ft from Curtains

ST - 10½ ft from house

7/30/21 Checked tanks.

INITIAL SITE SKETCH

This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

Soil & Forestry Services of the Carolinas, PA

LSS # 1231 Dated June 22, 2021.

AS BUILT SKETCH

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 time.

7-29-2021 BLW

DRAIN LINES CHECKED INSTALLED AS SHOWN

8/6/2021: Electric good, Pump box good, pressure set.

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: [signature] Date: 7/20/2021 Installed by: SPECIALITY SEPTIC

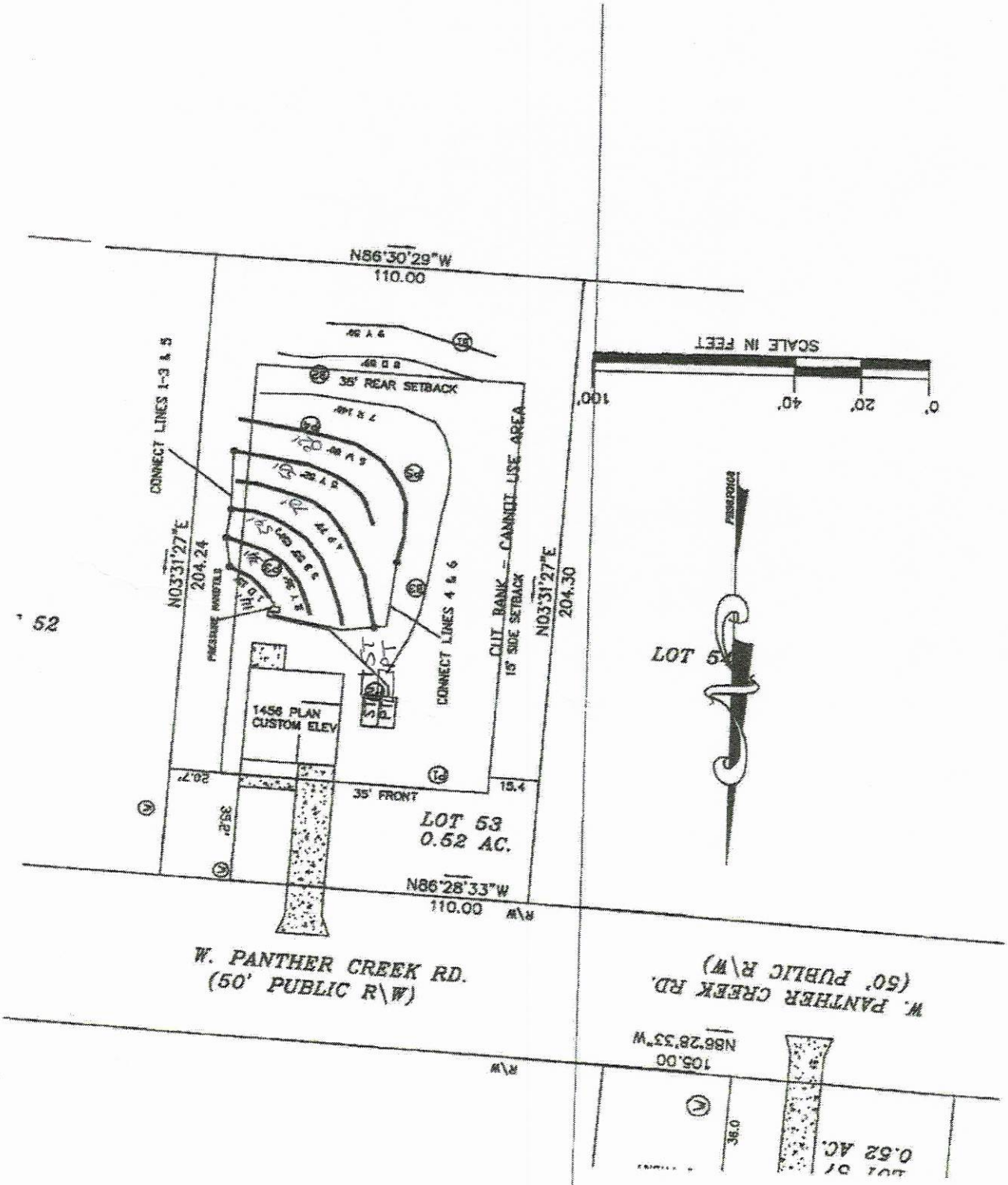
IMPROVEMENT PERMIT by: [signature] Date: 7-12-2021 OPERATION PERMIT by: Patrick J Boyle III Date: 8/6/2021

AUTHORIZATION TO CONSTRUCT by: [signature] Date: 7/29/21 Existing System Inspected by: Date:

FOR SEPTIC FINAL INSPECTION: CALL 704-664-3703 between 8am-9am the day the inspection is needed.

Item	Date	Initials
Drain Lines Checked	7-29-2021	BCW
Tanks Checked	7/3/21	MD
Pressure Manifold or Valve Box Checked	8-6-21	PB
Pressure Head Set	8-6-21	PB
Electrical Checked	8-6-21	PB
Floats Set	8-6-21	PB
Alarm Checked	8-6-21	PB
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	


N86°30'29"W
110.00
35' REAR SETBACK
CONNECT LINES 1-3 & 5
N03°31'27"E
204.24
PRESSURE MANIFOLD
CONNECT LINES 4 & 6
CUT BANK — CANNOT USE AREA
15' SIDE SETBACK
N03°31'27"E
204.30
1456 PLAN
CUSTOM ELEV
35' FRONT
15.4
LOT 53
0.52 AC.
N86°28'33"W
110.00
R\W
W. PANTHER CREEK RD.
(50' PUBLIC R\W)
SCALE IN FEET
0'
20'
40'
100'
FIBERGLASS
LOT 54
W. PANTHER CREEK RD.
(50' PUBLIC R\W)
N86°28'33"W
105.00
36.0
0.52 AC.

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 20-0091
June 22nd, 2021

NEST HOMES
Attn: *Tim Carr*
Email: tcarr@nesthomes.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence on Lot 53 Wiltshire Creek Subdivision, 0.52 ac Parcel, PIN# 4649294946, 111 W. Panther Creek Road, Troutman, NC 28166.

Mr. Carr:

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 cleared and had an existing house under construction. A well had already been installed. 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 Don Allen & Associates. The client provided an Autocad File of a survey as a basemap. The proposed septic layout was located via tape measures and used to produce the attached *Site Plan*. The house foundation/existing house was located via Survey by Don Allen & Associates.

Methodology

We had previously evaluated soil areas through the use of hand auger borings & backhoe pits. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with three auger borings and five backhoe pits on the property flagged and located via GPS. All of the auger borings and three of the backhoe pits are located in 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. An on-ground layout of system and repair was performed based upon our previous design dated 10/15/20 using a laser level. Pin flag locations of the layout were also located by tape measures. Detailed system & repair information is summarized in the following paragraph for this Lot. Construction and cutting of soil for the house pad required the use of a pump system vs. the previous gravity design.

Lot 53 *(See Attached Design)*
The septic layout for this lot (9' centers) yielded a total of 557 linear feet of line. The primary system is proposed as 308 linear feet of Accepted (25% Reduction) drainfield with pressure manifold distribution. Trench depth is specified at 30 inches. The repair system is proposed as 249 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth is specified at 28 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 Tim Carr
Signature Tim Carr 6-22-21

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 53 of Wiltshire 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 (25% reduction) Septic System with Pressure Manifold distribution for a 3 bedroom single family residence on Wiltshire Creek Lot 53 111 W. Panther Creek (PIN #:4649294946), Troutman NC, 28166.

Contents:

	Page
Information for the Installer	1
Design Information	
Design Specifications	2-3
Layout Specifications	4
System Tapsheet	5
Pressure Manifold Diagram	6
Site Plan/System Plan	7
Calculations	8
Profile Descriptions	9-10
Application	11-12
Agent Authorization Form	13
Green Sheet	14

June 22, 2021
Project No. 20-0091
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 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.
- 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.
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as an Accepted 25% reduction installation w/Pressure Manifold.
- Repair is specified as a PPBPS installation with Low Pressure Distribution.
- Rake trench walls, lime sidewalls, install trenches 36" wide and have no more than 1/4" fall in 10 feet.

CALCULATIONS

Location 111 W. Panther Creek Road
Troutman, NC 28166
Project Number 20-0091

Lot No: 53

No. of Bedrooms 3

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

LTAR 0.300 $^{gpd/ft^2}$

25% RED.? (YES OR NO) YES

Supply Line Length 52 ft.

Supply Line Volume 9.048 gal.

Required Feet of Line 300 ft.
Amount of Line from Layout 308 ft.

Gallons per Minute 25 $^{gal}/_{min}$

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

Lateral Line Volume 201.124 gal.

Dosing Volume 140.79 gal.

Note: Dosing Volume based on 70% of lateral line volume

Tank Draw Down 6.7 *Generic Draw Down of 21 gal.per in.*

Pump Run Time 5.63 minutes

Elevation Head 8.5 ft.
Pressure Head 2 ft.
Friction Factor 1.78 ft./100 ft. *(From the interpolater.)*
Friction Head 0.93 ft.

Total Dynamic Head (+15%) 13.14 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

PRESSURE MANIFOLD SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Nest Homes
Address:	236 Raceway Drive (Suite 7) Mooresville, NC 28117
Phone:	704.202.1524
County:	Iredell
Location:	111 W Panther Creek Rd Troutman NC 28166
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	360 gpd
System Flow:	25.00

Design Specifications

Drainfield Size:	308
Loading Rate:	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Max Trench Depth:	30 in. Repair Trench Depth 28 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	52
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	9.05
Dosing Volume:	140.79
Supply Manifold:	4 in. SCH 80 PVC
Supply Manifold Length:	4 ft. (minimum)
Supply Manifold Volume:	N/A
Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	0.93
Elevation Head:	8.50
Total Dynamic Head:	13.14
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 at Pressure Manifold
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Soil & Forestry Services of the Carolinas, PA.

111 W Panther Creek Rd
PRESSURE MANIFOLD DESIGN

DESIGN FLOW:	360
SOIL APPLICATION RATE:	0.3
TOTAL AREA TRENCH BOTTOM:	924
TOTAL LATERAL LENGTH:	308
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	300
SUPPLY LINE LENGTH:	52
TOTAL DYNAMIC HEAD:	13.14
MANIFOLD SIZE:	4 in.SCH 80 PVC
DOSING VOLUME:	140.79
PUMP TANK DRAW DOWN*:	6.7
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000

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

Layout Specifications - Wiltshire Creek Lot 53

Project #: 20-0091

LAYOUT FOR 3 BEDROOM HOME

June 22, 2021

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
HOUSE					883.50		
PUMP TANK					883.00		
INSTR. 1							
1	*ORANGE*				*886.00*	*15*	*15*
2	*YELLOW*				*885.60*	*36*	*36*
3	*BLUE*				*885.00*	*55*	*55*
4	*PINK*				*884.30*	*70*	*70*
5	*YELLOW*				*883.50*	*52*	*52*
6	*WHITE*				*882.90*	*80*	*80*
7	RED				882.20	140	140
8	ORANGE				881.80	59	59
9	YELLOW				881.00	50	50
					Total	557	557

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	TRENCH DEPTH
** System*	*308*	*0.300*	*ACCEPT.*	*0.300*	*25% RED*	*PRESSURE MANIFOLD*	30"
Repair	249	0.250	MOD. CONV.	0.250	PPBPS	LOW PRESSURE	28"

Notes: **All measures in feet

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

**Nitrification lines were located by GPS & Tape Measures.

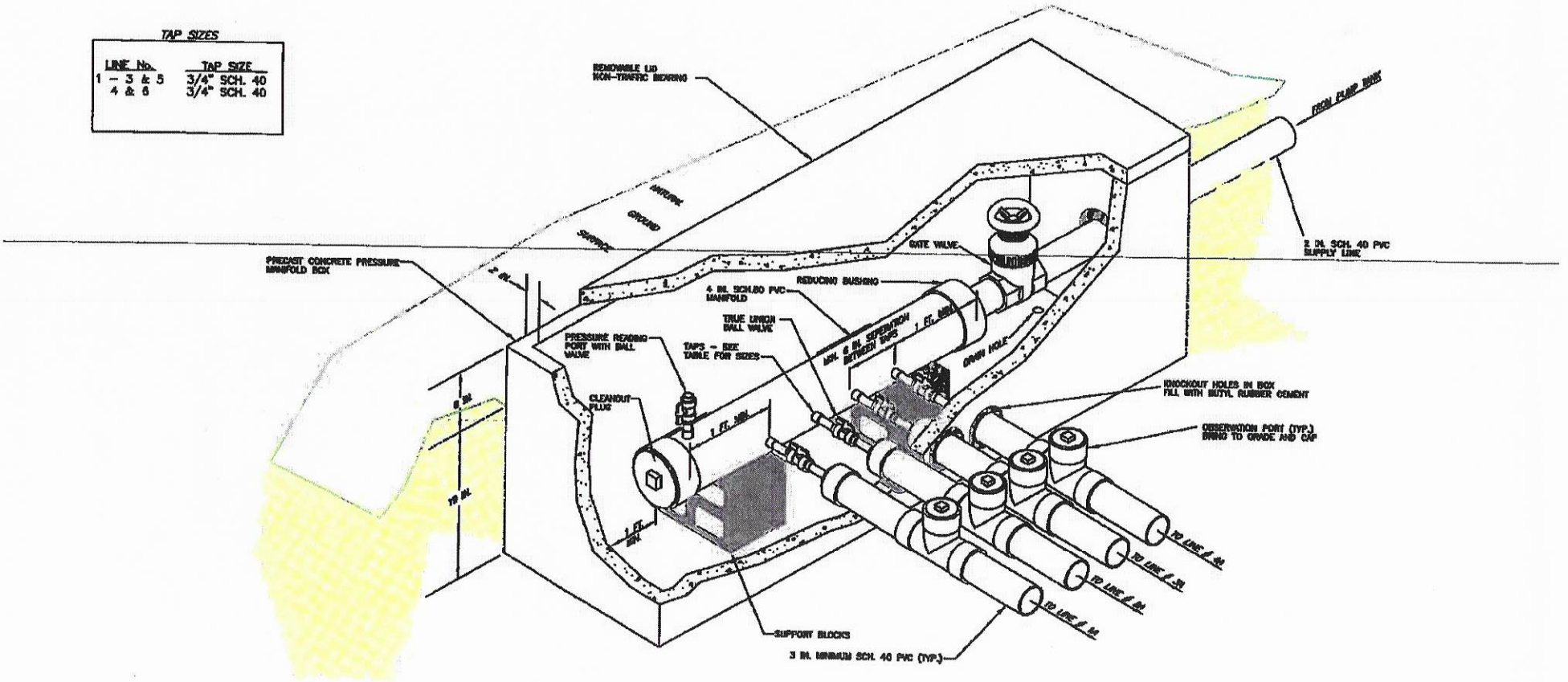
PRESSURE MANIFOLD TAPSHEET - Wiltshire Creek Lot 53

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	Line LTAR
1-3 & 5	O, Y, B & Y	886.00	158	SCH 40 3/4	12.5	474	0.15
4 & 6	P & W	884.30	150	SCH 40 3/4	12.5	450	0.16

total	feet =	308	gal/min =	25
		Des. Flow	480	
		Pump Run=	5.63	
		soil LTAR	0.3	
		LTAR +5%	0.315	
		LTAR with ACCEPTED	0.4	
		LTAR with ACCEPTED + 5%	0.42	

PRESSURE MANIFOLD DETAILS
FOR
WILTSHIRE CREEK LOT#53 SEPTIC SYSTEM



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

Sheet 1 of 2
PROPERTY ID #: 4649294446
COUNTY: Iredell

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

OWNER: Helmsman Homes LLC
ADDRESS: P.O. Box 3695 Mooresville NC 28117
PROPOSED FACILITY: 3BR
LOCATION OF SITE: 111 W. Panther Creek Rd, Troutman NC 28166 Lot 53
APPLICATION DATE
DATE EVALUATED: 8/19/20
PROPERTY SIZE: .52 AC
PROPERTY RECORDED: Yes
PROPOSED DESIGN FLOW (.1949): 360 gpd
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
P 1	L/7%	0-5	BL Gr	Fr SS SP	Compacted	25	PS	-	PS .4
		5-10	RBC wmsbk/abk	Fr SS SP	Compacted				
		10-25	RYCL wmsbk	Fr SS SP	C.SAP Quartz Vein				
		25-68	VAR FSL MASS	VF NS NP NEXP					
P 2	L/100%	0-4	BSL Gr	Fr SS SP	Few to C. SAP	31	PS	-	PS .25-.275 Shallow
		4-18	RBC wmsbk/abk	Fr SS SP					
		18-31	RBCL wmsbk/abk	Fr SS SP					
		31-65	VAR FSL MASS	VF NS NP					
P 3	L/5%	0-6	BSL Gr	Fr SS SP	Few SAP	53	PS	-	PS .3
		6-30	RC wfsbk	Fr SS SP					
		30-53	RCL wfsbk	Fr SS SP					
		53-63	VAR FSL MASS	VF NS NP NEXP					
P 4	L/80%	0-12	Fill		Few SAP	60	N/A	-	PS .3
		12-22	BSL Gr	Fr SS SP					
		22-50	RC wfabk/sbk	Fr SS P					
		50-60	RCL wfsbk	Fr SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Accepted	PPBPS
Site LTAR	0.3	0.275

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

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

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

PROPERTY ID #: 964989[illegible]
DATE OF EVALUATION:
COUNTY: Iredell

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
P5	L/6%	0-12	Fill						PS .3
		12-22	BSL Gr	Fr SS SP SEXP					
		22-44	RC wmsbk/AbK	Fr SS SP SEXP					
		44-60	RBCL wfsbk/AbK	Fr SS SP SEXP	Few to C. SAP	60	N/A		
B1	L/5%	0-12	BSL Gr	Fr SS SP SEXP					PS .3
		12-18	RBCL wfsbk	Fr SS SP SEXP					
		18-42	RC wmsbk	Fr SS SP SEXP		48	N/A		
		42-48	RBCL wfsbk	Fr SS SP SEXP					
B2	L/5%	0-18	BSL Gr	Fr SS SP SEXP					PS .25-.275
		18-28	RBSCL wmsbk	Fr SS SP SEXP					
		28-48	RC wmsbk	Fr SS SP SEXP		48	N/A		
B3	L/5%	0-4	RBCL wmsbk	Fr SS SP SEXP					PS .325
		4-28	RC wmsbk	Fr SS SP SEXP					
		28-43	RBCL wfsbk	Fr SS SP	C. SAP	43	N/A		
		43-AR							

COMMENTS:

RECEIVED JUN 3 0 2021

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

S.L. AP. 312536 $1200.00

Application For: ( ) 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 **Address:** 236 Raceway Dr. Mooresville NC **Zip:** 28117
Applicant Email: [redacted]@carrsnesthomes.com **Phone:** 704.402.8574 **Alt. Phone:**
Owner Name: Helmsman Homes LLC **Address:** P.O. Box 3965 Mooresville NC **Zip:** 28117
Owner Email: **Phone:** **Alt. Phone:**

Property Information:

Street Address: 111 W Panther Creek Rd, Troutman NC 28166
Subdivision Name: Wiltshire Creek **Section/Phase:** SHT 2 **Lot Number:** 53
Driving Directions: Perth Rd, Clonts Hill Rd, Ridge Creek Rd, W. Wiltshire Rd, Panther Creek Rd

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:

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

CHECK FOUNDATION TYPE
( ) 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:
(✓) 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 (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (✓) No Is the site subject to approval by any other public agency?

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

Signatures: [signature] 6/22/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

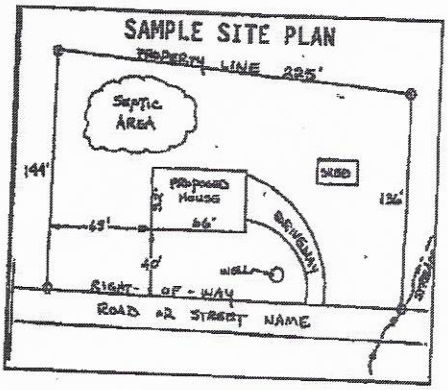
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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: [signature] 6/22/21

Property owner or owner's legal representative signature (SIGNATURE REQUIRED) — **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, Helmsman Homes LLC, am the legal owner(s) of the property located at 111 W Panther Creek Rd Troutman NC 28166, identified as PIN (Parcel Identification Number) 4649-37-4946, located in Iredell County, North Carolina.

I do hereby authorize (print legal representative/company name) SDS / Ashley Rollins, 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.

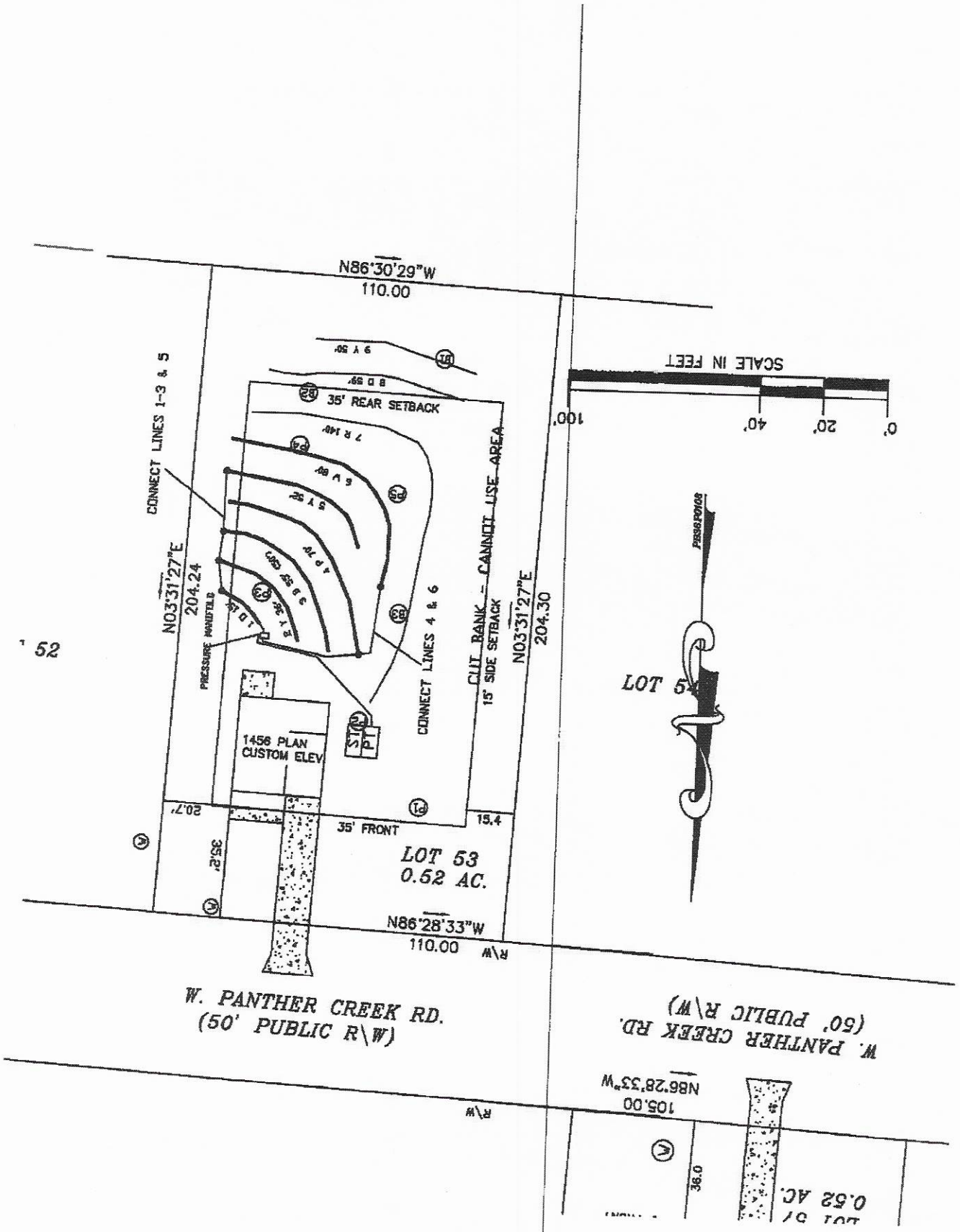
* Tim Carr 10-22-21
Signature of Owner(s) Date

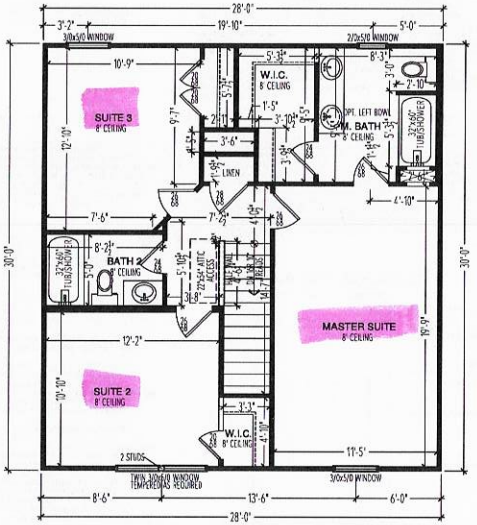
Signature of Witness Date

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


N86°30'29"W
110.00
35' REAR SETBACK
CONNECT LINES 1-3 & 5
CONNECT LINES 4 & 6
CUT BANK - CANNOT USE AREA
15' SIDE SETBACK
N03°31'27"E
204.24
N03°31'27"E
204.30
PRESSURE MANIFOLD
1456 PLAN
CUSTOM ELEV
35' FRONT
20.7'
15.4
35.2'
LOT 53
0.52 AC.
N86°28'33"W
110.00
R\W
W. PANTHER CREEK RD.
(50' PUBLIC R\W)
SCALE IN FEET
0'
20'
40'
100'
LOT 54
W. PANTHER CREEK RD.
(60' PUBLIC R\W)
N86°28'33"W
105.00
36.0
0.52 AC.



SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

UPPER LEVEL NOTES

UPPER LEVEL FRAMING NOTES:
BRACED WALL LINE NOTE:
THIS STRUCTURE HAS BEEN ANALYZED FOR LATERAL LOADING USING CONTINUOUSLY SHEATHED WALL SHEATHING AS INDICATED IN THE GENERAL NOTES. WHERE BRACED WALLS DO NOT MEET THE PRESCRIPTIVE REQUIREMENTS OF SECTION R602.10 OF THE CODE, IT HAS BEEN ANALYZED BY ENGINEERING ANALYSIS INCORPORATING ENGINEERED LATERAL BRACING ELEMENTS WHERE NEEDED TO MEET THE INTENT OF THE CODE.

1. "T.T.R" INDICATES "TIE (CEILING JOIS) TO RAFTER WITH FOUR 3"X0.131" NAILS)
2. ALL LOAD- BEARING HEADERS SHALL BE (2)2X8 SPF#2 UNLESS OTHERWISE NOTED ON THE PLAN
3. WHERE DIMENSIONS ARE NOT INDICATED, BEAMS THAT RUN PARALLEL TO FLOOR JOISTS ARE INTENDED TO ALIGN UNDER LOAD BEARING WALLS. SEE THE ARCHITECTURAL PLANS FOR DIMENSIONS TO WALLS.
4. ALL WALLS UP TO 10 FT. TALL SHALL BE 2X4 SPF#2 @ 16" O.C. UNLESS NOTED OTHERWISE ON THE PLAN. TALLER WALLS SHALL COMPLY WITH TABLE R602.3(4) OF THE CODE OR AS NOTED ON THE PLAN.
5. WOOD BEAMS SHALL BE SUPPORTED BY METAL HANGERS OF ADEQUATE CAPACITY WHERE FRAMING INTO BEAMS OR LEDGERS. THE FOLLOWING HANGER SCHEDULE MAY BE USED UNLESS NOTED OTHERWISE ON THE PLAN:

MEMBER SIZE	SIMPSON HANGERS
(2) 2X8	LUS 28-2
(2) 2X10	LUS 210-2
(2) 2X12	LUS 210-2
(2) 1¾"X 9¼" LVL	HUS 410
(2) 1¾"X 11¼" LVL	HUS 412
(2) 1¾"X 14" LVL	HUS 412
ALL TRIPLE LVLs	HHUS 5.50/10

6. NOTE: FILL ALL OF THE HOLES IN HANGERS WITH 10d x 3½" COMMON NAILS (3)"x 0.162") OR 16d x3" (2)"x 0.162") NAILS UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. DO NOT BEND OR MODIFY THE HANGER OR USE INAPPROPRIATE FASTENERS. DO NOT USE 10dX 1½" "HANGER NAILS" UNLESS OTHERWISE NOTED ON THE PLANS OR IN SITUATIONS WHERE ONLY 1½" OR LESS OF WOOD IS PROVIDED TO NAIL INTO.
7. "LVL" AND GLU-LAM BEAMS MUST HAVE ENOUGH STUDS TO SUPPORT ALL PLIES AT EACH END WITH A MINIMUM OF (3)-2X4 OR (2)-2X6 STUDS UNDER EACH END UNLESS NOTED OTHERWISE.
8. ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, BEAM SUPPORTS -WHETHER WOOD OR STEEL-CANNOT BEAR ON SHEATHING ALONE. BLOCKING EQUAL TO OR BETTER THAN THE POINT LOAD SUPPORTS ABOVE MUST BE CARRIED THROUGH ALL CONSTRUCTION TO THE FOUNDATION. INSTALL 2X4 SQUASH BLOCKS (5.5.) OF EQUAL NUMBER TO COLUMN ABOVE BETWEEN SUBFLOOR AND FOUNDATION WALL OR LOWER PLATE. RIM BOARDS AND I-JOIST BLOCKING SHALL NOT BE CONSIDERED AS AN ACCEPTABLE MEANS OF SUPPORT UNDER CONCENTRATE POINT LOADS FROM LVL AND STEEL BEAMS OR WHERE "5.8" IS INDICATED ON THE PLAN.
9. FASTEN ALL TRIPLE PLY LVLs TOGETHER WITH TWO ROWS OF 5" LONG TRUSSLOK OR SIMPSON SDS SCREWS @ 16" O.C. AND FOUR PLY LVLs WITH TWO ROWS OF 6½" TRUSSLOK SCREWS @ 16" O.C. UNLESS NOTED OTHERWISE ON THE PLANS. THE SCREWS SHALL BE LOCATED A MINIMUM OF 2" AND A MAXIMUM OF 3" FROM THE TOP OR BOTTOM OF THE BEAM.
10. JACK AND KING STUD SCHEDULE AT WALL OPENINGS:
TO BE INSTALLED AT EACH END OF OPENING UNLESS OTHERWISE NOTED AS "#J" OR "#K" ON PLAN
SPANS UP TO 4'-0" ..... 1 JACK, 1 KING
SPANS >4'-0" TO 5'-6" ..... 1 JACK, 2 KINGS
SPANS >5'-6" TO 6'-6" ..... 2 JACK, 3 KINGS
SPANS >6'-6" ..... SEE PLAN
11. CONTRACTOR TO PROVIDE 22"x30" ACCESS TO ATTIC.

Acknowledgement of
Plans Submittal ONLY!

Date 12/14/20

Date 12/28/20

HELMSMAN HOMES
236 Raceway Drive Suite 7
Mooresville, NC 28117
PH: 704-206-4251

Township/County
TOWNSHIP
COUNTY

Engineer

Stamp/seal

Project name/owner
1446 PLAN
CUSTOM ELEVATION

OWNER NAME/TITLE
ADDRESS LINE 1
ADDRESS LINE 2
PH: 000-000-0000
PH: 000-000-0000

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Date
October 9, 2020

Drawn by
MWH

Reviewed by
CAD

Plan set scale
24x36 sheet
1/4" = 1'-0"
11x17 sheet
1/8" = 1'-0"

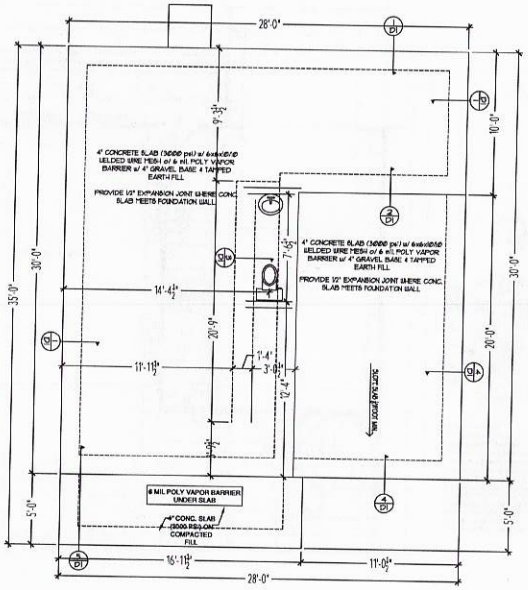
Project/plan code
XX.XX.XXXX

Drawing set
FOR CONSTRUCTION

Sheet title/description
SECOND FLOOR PLAN
CLASSICAL ELEVATION

Sheet no.
A4.0

Master plan version
v1.0



FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

MONO SLAB NOTES

FOUNDATION NOTES:

1. ALL PERIMETER WALL FOOTINGS SHALL BE CONTINUOUS 16"WIDEx20"DEEP (MIN.), 3000 PSI CONCRETE TURN-DOWN SLAB.
2. FOOTINGS ARE DESIGNED ASSUMING A 2000 PSF BEARING CAPACITY SOIL.
3. SEE PLANS FOR SPECIFIC LOCATIONS AND INFORMATION REGARDING HOLD-DOWNS.
4. ALL INTERIOR THICKENED SLABS SHALL BE 12"DX16"W
5. S.O.G. INDICATES "SLAB ON GRADE" AND SHALL CONSIST OF 4" THICK, 3000 PSI CONCRETE WITH FIBERMESH REINFORCEMENT OR 6X6 W1.4XW1.4 WWF, OVER 4" CLEAN STONE OVER 6 MIL VAPOR BARRIER OVER COMPACTED FILL.
6. INSTALL [1"x1"] SAWCUT CONTROL JOINTS NO GREATER THAN 13 FEET IN EACH DIRECTION.
7. STAND ALONE BORATE TREATMENT TO BE PROVIDED AFTER FRAMING

FOOTING SCHEDULE

ID	FOOTING SIZE	REINFORCING
1	24" x 24" x12" DEEP	3 - #4's EACH DIRECTION
2	30" x 30" x12" DEEP	4 - #4's EACH DIRECTION
3	36" x 36" x12" DEEP	4 - #4's EACH DIRECTION
4	42" x 42" x12" DEEP	5 - #4's EACH DIRECTION
5	48" x 48" x12" DEEP	6 - #4's EACH DIRECTION

FOUNDATION NOTES:

1. ALL DIMENSIONS SHALL BE VERIFIED AGAINST ARCHITECTURAL FLOOR PLANS FOR ACCURACY BEFORE BEGINNING CONSTRUCTION OF HOME.
2. TRANSFER ALL POINT LOADS FROM FIRST AND SECOND FLOOR TO BEAM AND ROOF TRUSS BEARING ABOVE FOUNDATION WITH EQUAL AMOUNT OF STUDS
3. ALL CONCRETE TO BE A MIN. OF 3000 psi U.N.O.
4. SOIL TO HAVE A MIN. OF 2000 psf BEARING CAPACITY

HELMSMAN HOMES

236 Raceway Drive Suite 7
Mooresville, NC 28117
PH: 704-208-4251

Township/County
TOWNSHIP
COUNTY

Engineer

Stamp/seal

Project name/owner
1446 PLAN
CUSTOM ELEVATION

OWNER NAME/TITLE
ADDRESS LINE 1
ADDRESS LINE 2
PH: 000-000-0000
PH: 000-000-0000

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Date
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MWH

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CAD

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Project/plan code
XX.XX.XXXX

Drawing set
FOR
CONSTRUCTION

Sheet title/description
CRAWL SPACE
CLASSICAL

Sheet no.
A2.0

Master plan version
v1.0

IREDELL COUNTY · NC

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

APPLICATION NUMBER
312536 Issue Date: 11/10/2020

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4649294946.000	111 W PANTHER CREEK RD	Iredell County

Owner Information	Applicant Information
Name: HELMSMAN HOMES LLC	Name: NEST HOMES LLC
Address:	Address: PO BOX 3965
,	MOORESVILLE, NC 28117
Phone:	Phone: (704)808-1064

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0.52	35	35	15	15	WSIV-PA Catawba/Lake Norman	NO

Remarks
SFD - NEEDS ZD

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: 11/10/2020

Permit Number	312536

TOTAL FEES:	$77.25