ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 316608

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

PIN # 4741 -- 11 -- 8872

APPLICANT/OWNER: TruNorth Homes APPLICANT ADDRESS: 631/330 Brawley School Rd Mooresville NC 28117

SITE ADDRESS: 105 Trellis Lane Troutman NC 28166 PHONE: 704/363 2345 ALT. PHONE

SITE DIRECTIONS: Hwy 21 to Autumn Creek Rd Trellis Lane SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Normandy Breaks SECTION: 1 LOT # 1 LOT AREA: .459 Ac DESIGN FLOW: 360 L.T.A.R.: 325

Septic Tank	1000 (gal)	STB	760	Date	7/12	☒ New System	☐ Repair	☐ Expansion	System Type: I II III IV V VI	☒ Residence	No. Bedrooms 3
Pump Tank	122 (gal)	PT	363	Date	9/6	System Description:	PM - PPBPS - 50% Reduction			☐ Business	No. Persons 6
Pump Make	Zoeller	Model	N152-P	Serial #	2K2163	Repair System Description:	LP - PPBPS - 50% Reduction			☐ Other	No. Employees
# Nitrification Fields	1	# Lines	5	Linear Ft	190	Maintenance Agreement Required:	☐ YES	☒ NO		☒ Slab	☐ Crawl Space
Trench Width	24	Trench Bottom Depth(Low side)	36in	Gravel Depth	—		☐ GRAVITY	☒ PRESSURE		☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☒ Private ☐ Public ☐ Community

Comments / Conditions:

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 # 1251 Dated April 16, 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.

8/25/2021: Drainlines Pmbox and tanks were checked. No filter in ST, No pump in pt. supply line and pmbox in power line R/W needs encroachment agreement.

Supply line > James 9/3/21
Electrical

Filter
Pressure Head
Alarm
Floats
Electrical
> Cory 9/3/21

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**

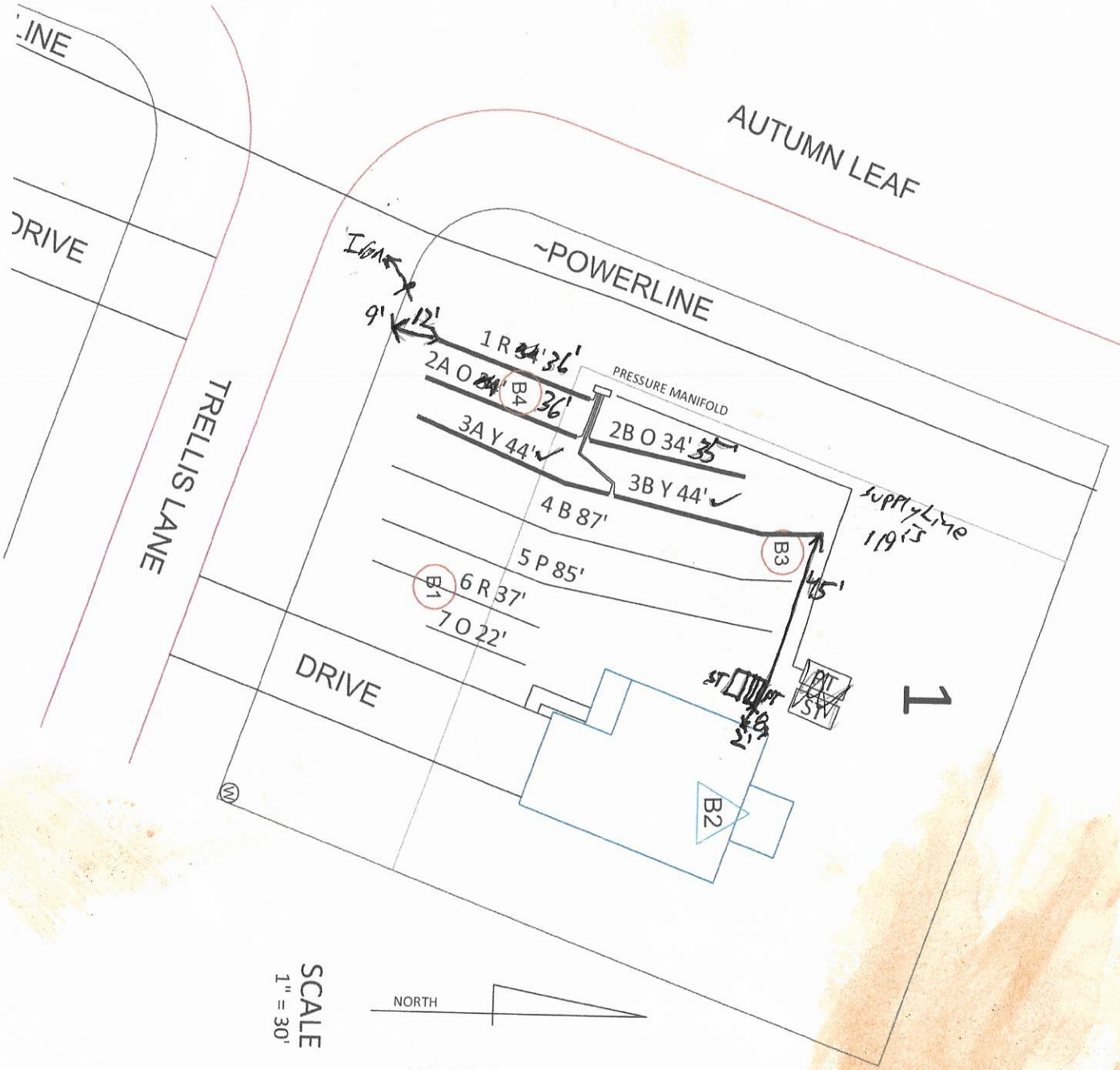
☐ **IMPROVEMENT PERMIT** *with plan valid without expiration.* ☒ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☐ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Date: 5/10/21 Installed by: Wastewater Solutions

IMPROVEMENT PERMIT by: Benjamin A Betts Date: 4/29/2021 OPERATION PERMIT by: Cory Whitaker Date: 9/3/21

AUTHORIZATION TO CONSTRUCT by: Benjamin A Betts Date: 5-10-2021 Existing System Inspected by: Date:

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


LINE
DRIVE
AUTUMN LEAF
~POWERLINE
TRELLIS LANE
DRIVE
PRESSURE MANIFOLD
1 R 36'
2A O 36'
B4
2B O 34'
3A Y 44'
3B Y 44'
4 B 87'
5 P 85'
6 R 37'
7 O 22'
B1
B3
B2
SUPPLY LINE
PT
VSV
1
SCALE
1" = 30'
NORTH

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 21-0009
April 16th, 2021

TRUNORTH HOMES, LLC
Attn: *Garrison Davis*
Email: garrison@trunorthhomes.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence at 105 Trellis Lane (LOT 1 Normandy Breaks), Troutman, NC 28166, PIN # (4741118872), Iredell County.

Mr. Davis:

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 hardwood/pine. Topography within the evaluated area was gentle slope near the house site and proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Bateman Civil Survey Co. The Surveyor provided an Autocad File of the survey as a basemap. The proposed septic layout was located via measuring tape/GPS and used to produce the attached *Site Plan*. The house envelope was located via Survey by Bateman Civil Survey Co. The attached Survey provided has house plot and acreage.

Methodology

We evaluated soil areas through the use of hand augers. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with four boring locations on the property flagged and located via GPS. Three of the four soil borings 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 boring. 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 tape measure and GPS. Detailed system & repair information is summarized in the following paragraph for this Lot.

DocuSign Envelope ID: 647328D9-DDEB-4186-BF6A-6408666C20EA

105 Trellis Lane (*See Attached Design*)
The septic layout for this lot (9' centers) yielded a total of 421 linear feet of line. The primary system is proposed as 190 linear feet of Mod. Conv. (PPBPS 50% Reduction) drainfield with pressure manifold distribution. Trench depth is specified at 36 inches. The repair system is proposed as 231 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth is specified at 32 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 Jimmie D Jones Date

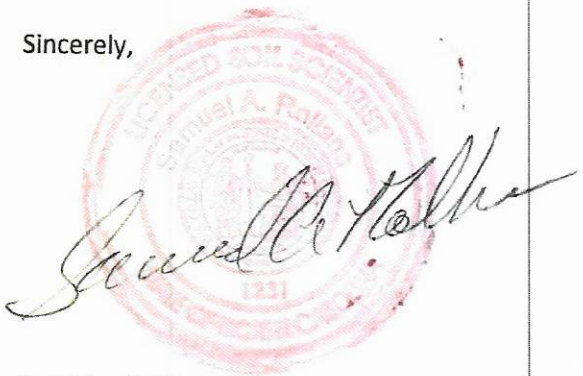
Print Name DocuSigned by:
Signature: Jimmie D Jones 4/23/2021
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The LSS Evaluation shall include a statement bearing the LSS seal and signature that reads as follows:

"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 at 105 Trellis Lane, Troutman, NC 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 a PPBPS Septic System w/Pressure Manifold distribution for a 3 bedroom single family residence on 105 Trellis Lane, Lot#1, (PIN# 4741118872), Troutman NC, 28166, Iredell County.

Contents:

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



April 16, 2021
Project #: 21-0009
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.
- 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 a PPBPS installation with pressure manifold distribution.
- Repair is specified as a PPBPS installation with low pressure distribution.
- Backfill 4 - 6" of material (County Approved) over panels, rake trench walls, lime side-walls, install trenches 24" wide and have no more than 1/4" fall in 10 feet.

PRESSURE MANIFOLD PPBPS SYSTEM FOR WASTEWATER TREATMENT

Owner/Applicant:	Garrison Davis
Current Address:	631/300 Brawley School Road Mooresville, NC 28117
Phone:	704.363.2845
County:	Iredell
Location:	105 Trellis Lane Troutman, NC 18166
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360 gpd
System Flow:	30.66 gpm

Design Specifications

Drainfield Size:	190
Loading Rate (gpd/ft.^{2}):	0.325
Depth of Gravel in Trench:	NA (PPBPS)
Gravel Size:	NA (PPBPS)
Max.Trench Depth (LOW SIDE):	36 in., Repair 32 in. Trench Depth
Trench Width:	24 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	94
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	16.36
Dosing Volume:	158.40
Supply Manifold:	N/A
Supply Manifold Length:	N/A
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:	2.23
Elevation Head:	9.00
Total Dynamic Head:	15.21
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 per lateral
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Soil & Forestry Services of the Carolinas, PA

105 Trellis Lane

PRESSURE MANIFOLD PPBPS

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.325
TOTAL AREA TRENCH BOTTOM:	380
TOTAL LATERAL LENGTH:	190
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	184.6153846
SUPPLY LINE LENGTH:	94
TOTAL DYNAMIC HEAD:	15.21
MANIFOLD SIZE:	N/A
DOSING VOLUME:	158.40
PUMP TANK DRAW DOWN*:	7.5
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 - 105 Trellis Lane-Lot 1

Project #: 21-0009

LAYOUT FOR 3 BEDROOM HOME — April 16, 2021

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
INSTR. 1							
HOUSE CNR	(LEFT REAR)				883.50		
P. TANK					884.00		
1	***RED***				***887.00***	*34*	*34*
2A	***ORANGE***				***886.50***	*34*	*34*
2B	***ORANGE***				***886.50***	*34*	*34*
3A	***YELLOW***				***885.80***	*44*	*44*
3B	***YELLOW***				***885.80***	*44*	*44*
4	BLUE				885.00	87	87
5	PINK				884.20	85	85
6	RED				883.10	37	37
7	ORANGE				882.50	22	22
					Total	**421**	**421**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
** System*	*190*	*0.325*	*MOD. CONV.*	*0.325*	***PPBPS***	**PRESSURE MANIFOLD**
Repair	*231*	*0.275*	*MOD. CONV.*	*0.275*	***PPBPS***	**LOW PRESSURE**

Notes:

****All septic lines and borings located via GPS/Tape Measures**
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags

PRESSURE MANIFOLD PPBPS TAPSHEET -105 Trellis Lane

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	No.of Panels
1	*RED*	*787.24*	*34*	*SCH 80 1/2*	*5.48*	*68*	*8*
2A	*ORANGE*	*785.25*	*34*	*SCH 80 1/2*	*5.48*	*68*	*8*
2B	*ORANGE*	*781.79*	*34*	*SCH 80 1/2*	*5.48*	*68*	*8*
3A	*YELLOW*	*778.70*	*44*	*SCH 40 1/2*	*7.11*	*88*	*10*
3B	*YELLOW*	*775.35*	*44*	*SCH 40 1/2*	*7.11*	*88*	*10*
	total	feet =	190	gal/min =	30.66		44
			Des. Flow	360			
			Pump Run=	5.17			
			soil LTAR	0.325			
			LTAR +5%	0.34125			
			LTAR with mod.	0.65			
			LTAR with mod.. + 5%	0.6825			

CALCULATIONS

Location	105 Trellis Lane Troutman NC 28166	
Project Number	21-0009	
Lot No:	1	
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.325	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	94	ft.
Supply Line Volume	16.356	gal.
Required Feet of Line	184.6154	ft.
Amount of Line from Layout	190	ft.
Gallons per Minute	30.66	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Pump Tank Capacity	1000	gal.
Panel Volume	3.6	gal.
# of Panels	44	
Dosing Volume	158.40	gal.

Note: Dosing Volume based on 100% of # of panels times 3.6 gal/panel

Tank Draw Down	7.5	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.17	minutes
Elevation Head	9	ft.
Pressure Head	2	ft.
Friction Factor	2.37	ft./100 ft. *(From the interpolater.)*
Friction Head	2.23	ft.
Total Dynamic Head (+15%)	15.21	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

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

Sheet 1 of 1
PROPERTY ID #: 4741118872
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Jimmie Sones
ADDRESS: 117 Grainwood Dr. Mooresville NC 28117
PROPOSED FACILITY: 3 BR
PROPOSED DESIGN FLOW (.1949): 360 gpd
LOCATION OF SITE: 105 Trellis Lane, Troutman NC 28166 Lot 1
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

APPLICATION DATE
DATE EVALUATED: 01/26/21
PROPERTY SIZE: 0.460
PROPERTY RECORDED: yes

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
B 1	L/7%	0-2	BL Gr	Fr SS SP SE VP	+Few Fe Depl Quartz Vein.	50	—	—	PS .275
		2-12	BRCL wfsbk	Fr SS SP SE VP					
		12-42	BRC wmsbk	Fr SS SP					
		42-50	RBCL/BCL wfsbk	Fr SS SP					
B 2	L/7%	0-8	BSL Gr	Fr SS SP SE VP	+Few Fe Depl Quartz Veins	35	—	—	PS-20% .10 drip
		8-20	RBSCL wfsblc	" "					
		20-35	RBC wmsblc	Fr SS P					
B 3	L/7%	0-5	BCL wfsbk	Fr SS SP SE VP	+fsap	60	—	—	PS .325
		5-25	BC wmsbk	" " " "					
		25-60	RBCL wfsbk	" " " "					
B 4	L/7%	0-3	BL Gr	Fr SS SP SE VP	+fsap	60	—	—	PS .325
		3-24	BRC wmsbk/fsbk	Fr SS P					
		24-60	RBCL wfsbk	Fr SS SP SE VP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	PPBPS	PPBPS
Site LTAR	.325	0.275

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

COMMENTS:

RECEIVED APR 2 6 2021

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM Session Law $ 500.00

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 AP-316608

The following optional attachments may also be submitted:
Place an (X) beside whichever is submitted if applicable
( ) Survey Plat, scaled no more than 1 inch = 60 feet
(✓) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: (PRINT CLEARLY)

Applicant Name: Tru North Homes/Garrison Davis **Address:** 631/300 Brawley School Rd Mooresville NC **Zip:** 28117
Applicant Email: garrison@trunorthhomes.com **Phone:** 704 368 2845 **Alt. Phone:**
Owner Name: Jimmie Jones **Address:** 117 Gainswood Dr. Mooresville NC **Zip:** 28117
Owner Email: **Phone:** **Alt. Phone:**

Property Information:

Street Address: 105 Trellis Lane, Troutman NC 28166
Subdivision Name: Normandy Breaks **Section/Phase:** **Lot Number:** 1
Driving Directions: Hwy 21, Autumn Leaf Rd, Trellis Lane

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.

Signature: Samuel A Tallman 3/31/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

DocuSign Envelope ID: 647328D9-DDEB-4186-BF6A-6408666C20EA

Public Health
Iredell County Health Department

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

Public Health
Iredell County Health Department

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, Jimmie Jones, am the legal owner(s) of the property located at 105 Trellis Lane, identified as PIN (Parcel Identification Number) 4741113872, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) SFS-Soil & Forestry Svcs / Ashley Rollins / Garrison Davis, 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.

DocuSigned by:
Jimmie D Jones
E3384BF841F54AB...
Signature of Owner(s) — Date: 4/23/2021

Signature of Witness — Date

Please return this signed form to the appropriate office:

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

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

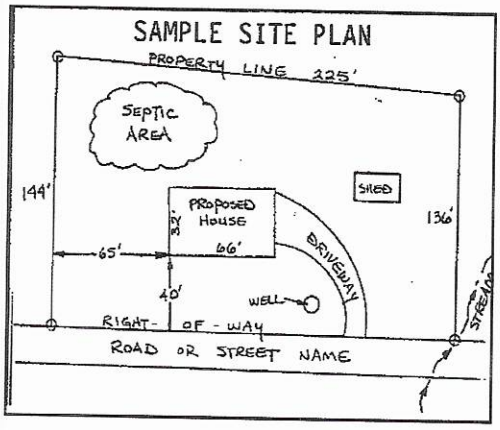
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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

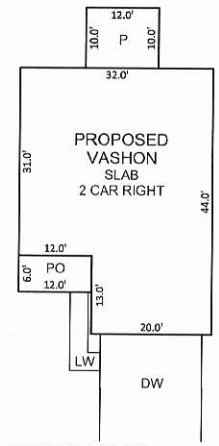
USE THIS SPACE TO DRAW YOUR SITE PLAN

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

3/31/21
DATE



INSET SCALE: 1"=20'

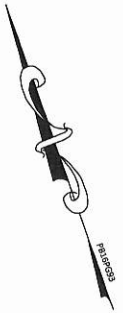
NOTES:

1. THIS SURVEY WAS PREPARED BY BATEMAN CIVIL SURVEY CO., UNDER THE SUPERVISION OF STEVEN P. CARSON, PLS.
2. THIS PLAN HAS BEEN PREPARED FOR LAYOUT AND PERMITTING PURPOSES ONLY.
3. PROPERTY LINES SHOWN WERE TAKEN FROM EXISTING FIELD EVIDENCE, EXISTING DEEDS AND/OR PLATS OF PUBLIC RECORD, AND INFORMATION SUPPLIED TO THE SURVEYOR BY THE CLIENT.
4. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES AND ALL BEARINGS ARE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM UNLESS OTHERWISE SHOWN.
5. THIS MAP IS NOT FOR RECORDATION AND SHOULD BE REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.
6. THE BASIS OF NORTH AND ALL EASEMENTS, RIGHTS-OF-WAYS, BUFFERS, SETBACKS AND ADJOINERS, ETC. REFERENCED IN TITLE BLOCK.
7. NO INVESTIGATION INTO THE EXISTENCE OF JURISDICTIONAL WETLANDS OR RIPARIAN BUFFERS PERFORMED BY THIS FIRM.
8. SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
9. THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE "X" AS DEFINED BY HUD F.I.R.M. MAP NO. 3710447400DJ, DATED MARCH 18, 2008. FLOODPLAIN AND FLOODWAY SHOWN HEREON ARE SCALED GRAPHICALLY FROM SAID PANEL.
10. ZONING: N/A
11. PROPERTY OWNER: TRUNORTH HOMES, LLC
631-300 BRAWLEN SCHOOL ROAD
MOORESVILLE, NC 28117

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHD BEARING	CHORD
C1	31.42'	20.00'	S25°07'00"E	28.28'



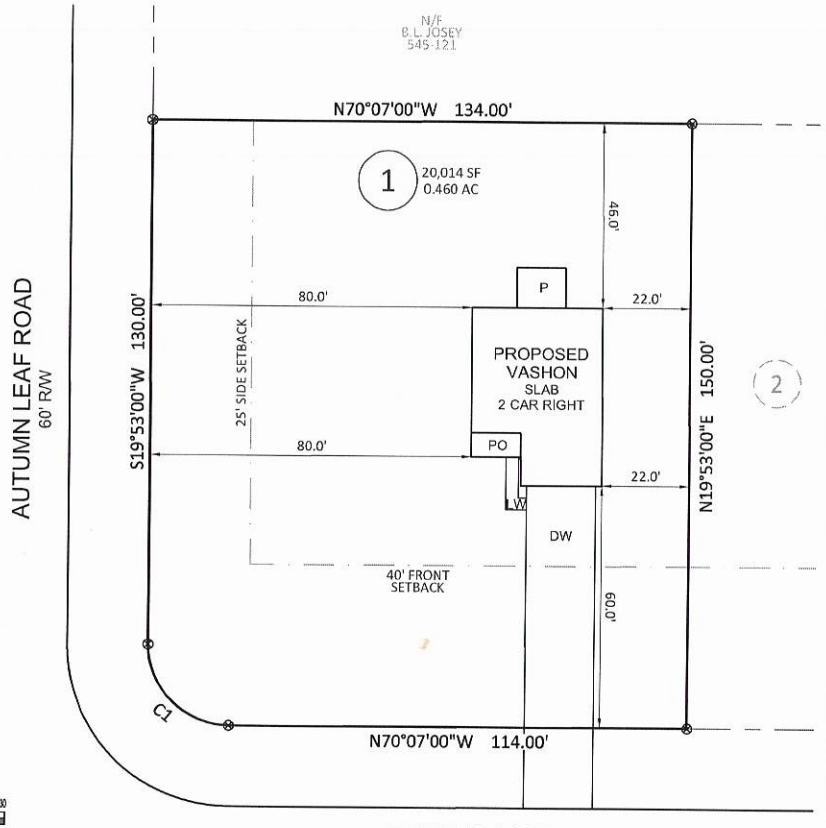
SCALE:
1" = 30 ft.



BUILDING SETBACKS:
(unless otherwise noted)
FRONT = 40 ft
SIDE = 25 ft

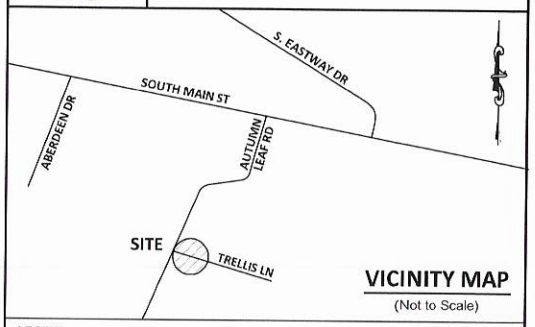
LOT INFORMATION:

PIN: 4741118872.000
HOUSE = 1,252 SF
DRIVEWAY = 1,020 SF
LEADWALK = 45 SF
PORCH = 72 SF
PATIO = 120 SF
TOTAL LOT AREA = 0.460 AC = 20,014 SF
TOTAL PROPOSED IMPERVIOUS = 2,509 SF
PERCENT IMPERVIOUS = 12.5 %



REVISIONS: MOVE HOUSE SO 22' OFF RIGHT PROPERTY LINE PER REQUEST; UPDATE PLOT PLAN 3-16-21 NMW

Bateman Civil Survey Company
Engineers • Surveyors • Planners
2524 Reliance Avenue, Apex, NC 27539 Ph: 919.577.1080 Fax: 919.577.1081
www.batemancivilsurvey.com info@batemancivilsurvey.com
NCBELS Firm No. C-2378



VICINITY MAP
(Not to Scale)

LEGEND

PO = PORCH
P = CONCRETE PATIO
CP = COVERED PORCH/PATIO
SP = SCREENED PORCH/PATIO
WD = WOOD DECK
S = CONCRETE STOOP
SW = SIDEWALK
LW = LEADWALK
DW = CONCRETE DRIVEWAY
= COMPUTED POINT
= IRON PIPE FOUND (IPF)
= IRON PIPE SET (IPS)
= WATER METER
= WATER VALVE
CO = CLEAN OUT
AC = AIR CONDITIONER
= SEWER MANHOLE
= ELECTRIC BOX
= CABLE BOX
= TELECOMM BOX
CI = CURB INLET
DI = DROP INLET
YI = YARD INLET
= LIGHT POLE
= FIRE HYDRANT
= HAND HOLE COVER

I, STEVEN P. CARSON, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY DIRECT SUPERVISION FROM A SURVEY MADE UNDER MY SUPERVISION (PLAT BOOK REFERENCED IN TITLE BLOCK); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION LISTED UNDER REFERENCES; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:10,000+; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARD OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA.
L-4752
DATED:

PRELIM

This map is of an existing parcel of land and is only intended for the parties and purposes shown. This map not for recordation. No title report provided.

BUILDER TO VERIFY HOUSE MODEL, LOCATION, DIMENSIONS AND REVIEW TOTAL IMPERVIOUS NOTED ON THIS PLOT PLAN

PRELIMINARY PLOT PLAN

FOR

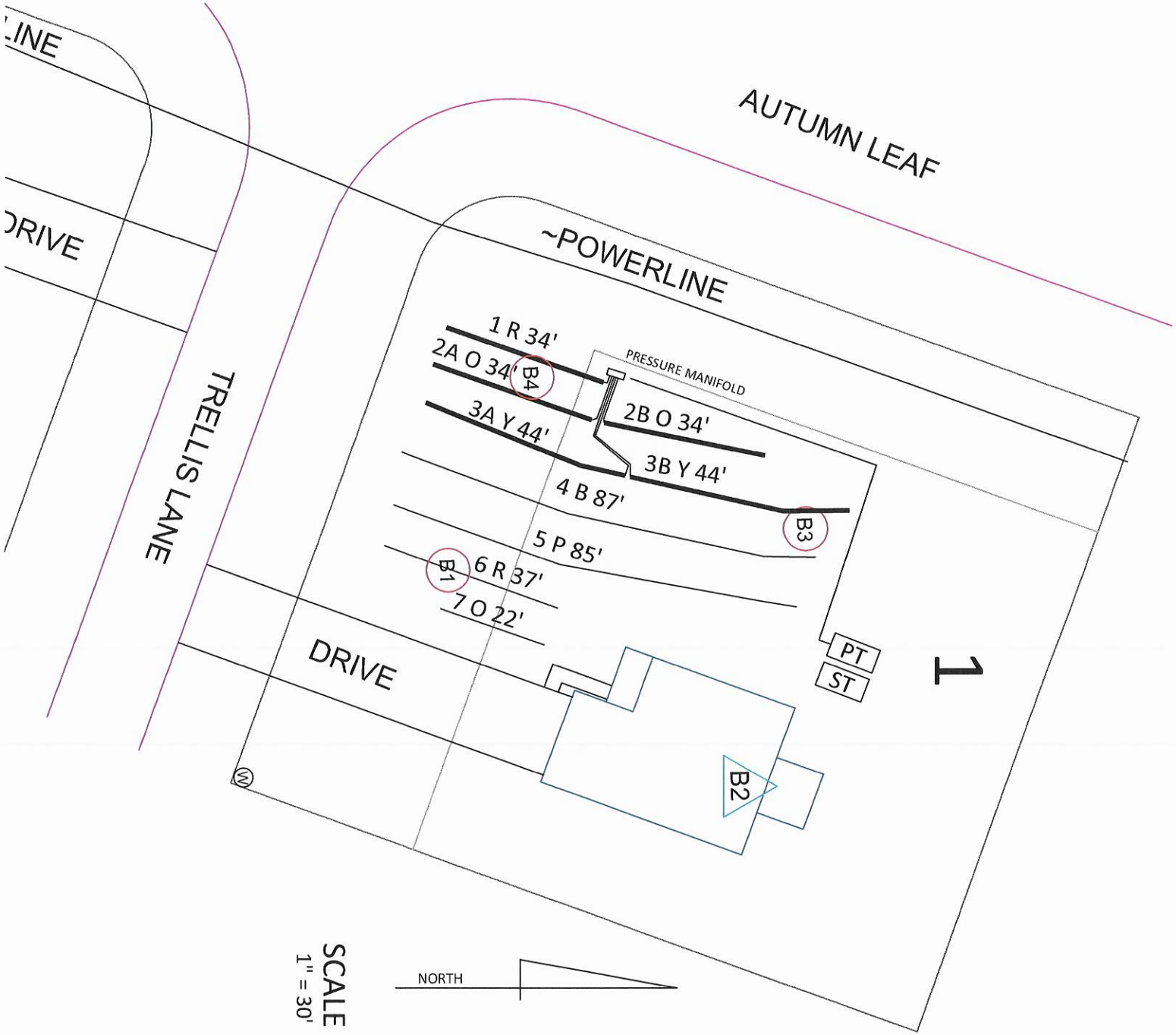
TruNorth Homes, LLC

NORMANDY BREAKS - SECTION 1 - LOT 1
TRELLIS LANE, TROUTMAN, NC
BARRINGER TOWNSHIP, IREDELL COUNTY

DATE: 3/8/21 DRAWN BY: NMW CHECKED BY: SPC

REFERENCE: PB 16, PG 93 PROJECT #: 210236 SCALE: 1" = 30'

P:\2021 Projects\210236 Normandy Breaks TruNorth Homes\dwg\210236 Normandy Breaks TruNorth Homes.dwg, 3/16/2021 7:44:19 AM, nwalker


LINE
DRIVE
TRELLIS LANE
AUTUMN LEAF
~POWERLINE
1 R 34'
2A O 34'
B4
PRESSURE MANIFOLD
2B O 34'
3A Y 44'
3B Y 44'
4 B 87'
B3
5 P 85'
B1
6 R 37'
7 O 22'
DRIVE
PT
ST
1
B2
W
SCALE
1" = 30'
NORTH

Lot 1 (105 Trellis)

2018 IRC COMPLIANT

Lot (1) Trellis Ln.
- Garage left
- Mono SWD
- 9' ceiling 2nd floor

→ 2x4 FLAT Trim 24" Around perimeter

4/20/21

2"x4" 8' HEADER 18' center line from M-bedroom

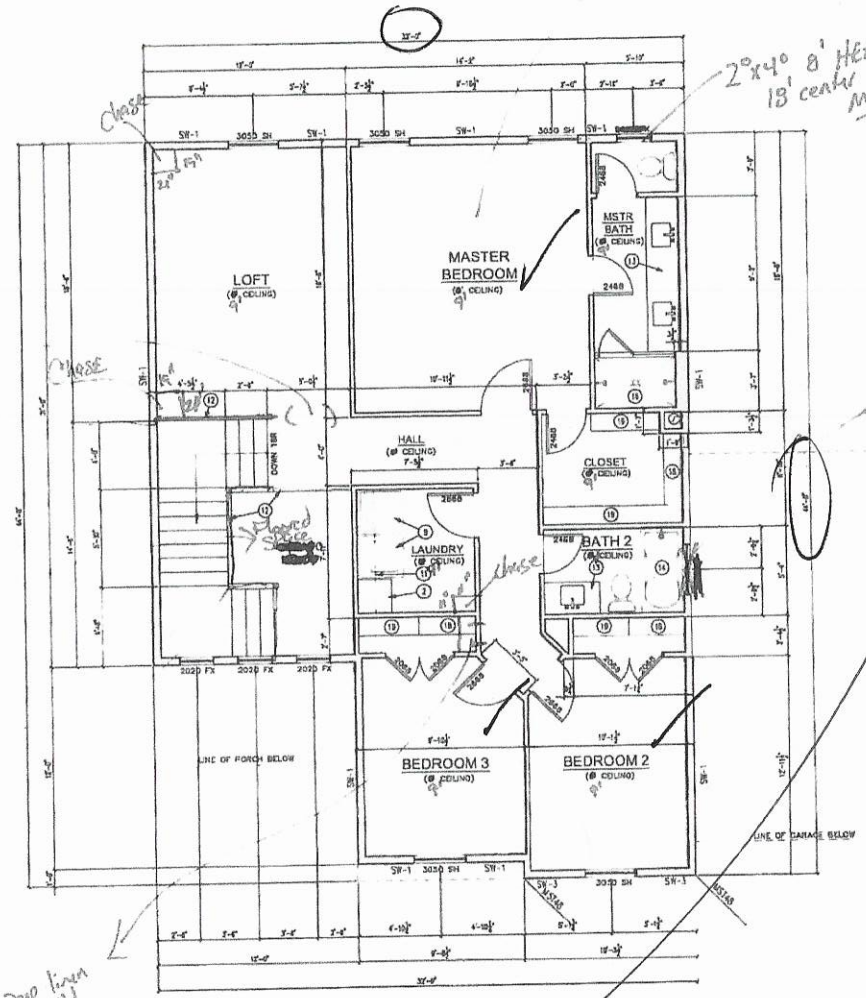
4' Double Door

Full WALL

Floorspace over foyer

1/2 WALL

No window



UPPER FLOOR PLAN
SCALE: 1/4" = 1'-0"

22" Deep linen closet with S.D.

KEY NOTES:

1. 39" WIDE REFRIGERATOR SPACE, (INSTALL WATER LINE)
2. COUNTERTOP OVER 36" HIGH BASE CABINET.
3. UPPER CABINETS (TOP AT 6'-0" A.F.F.)
4. 30" WIDE RANGE WITH HOOD ABOVE (VENT HOOD TO EXTERIOR AND PROVIDE AIR INTAKE)
5. DOUBLE SINK WITH DISPOSAL AND SPRAYER
6. DISHWASHER
7. LAZY SUZAN
8. 24" X 36" CRAWL SPACE ACCESS
9. WASHER AND DRYER HOOKUPS (WASHER IS ON THE LEFT)
10. PEDESTAL SINK
11. SHELF OR CABINETS ABOVE WASHER AND DRYER
12. 36" HIGH RAILING WITH BALUSTERS SPACED SO THAT A 4" SPHERE CAN NOT PASS THROUGH
13. COUNTERTOP OVER 32" HIGH BASE CABINET
14. 30" X 60" TUB / SHOWER (2.5GPM SHOWER HEAD)
15. 42" X 60" TUB IN TILE OR MARBLE PLATFORM
16. TILE OR MARBLE SHOWER WITH SAFETY GLASS ENCLOSURE
17. (4) 18" SHELVES STARTING @ 24" ABOVE FINISHED FLOOR
18. 12" SHELF AND ROD
19. (2) 12" SHELVES AND (2) RODS
20. SINGLE UTILITY SINK

SHEAR WALL NOTES

ALL EXTERIOR WALLS AND VERTICAL SURFACES AT STEPS IN ROOF SHALL BE SHEATHED WITH 7/16" APA RATED 24/0 OR BETTER STRUCTURAL WOOD PANELS. BLOCK ALL HORZ EDGES WITH 2" NOM. OR WIDER. 3" OR WIDER FRAMING AT ADJOINING PANEL EDGES AND NAILS SHALL BE STAGGERED WHERE 8d NAILS ARE SPACED 3" O.C. OR LESS. SHEATHING SHALL EXTEND CONTINUOUS FROM FLOOR TO TOP PLATE FRAMING ON UPPER EXT. WALLS. NAILS SHALL BE PLACED NOT LESS THAN 1/2" FROM EDGE OF PANEL AND DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING. EXTEND SHEATHING OVER RIM AND NAIL TO RIM AND WALL PLATES 4" O.C.

SHEAR WALL SCHEDULE

TYPE	SHEATHING	NAIL	EDGE	FIELD	STAPLE EQ
TYPICAL	7/16" ONE SIDE	8d	6" O.C.	12" O.C.	16G @ 3" O.C.
SW-1	7/16" ONE SIDE	8d	4" O.C.	12" O.C.	16G @ 3" O.C.
SW-2	7/16" ONE SIDE	8d	3" O.C.	12" O.C.	NOT ALLOWED
SW-3	7/16" ONE SIDE	8d	2" O.C.	12" O.C.	NOT ALLOWED

NOTE: 16 GAUGE STAPLES MAY BE SUBSTITUTED FOR 8d NAILS AT 1/2 SPACING ON TYPICAL AND SW-1.
SW-2 AND SW-3 REQUIRE 3X OR (3) 2X OR JOHNS PANEL EDGES.

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ARCHWAY DESIGNS L.L.C.
ARCHITECTURAL DESIGN & DRAFTING
www.archwaydesigns.com

PLAN STATUS
PRELIMINARY DRAWINGS DATED:
1ST DRAFT DATED.
FINAL DRAFT DATED. 4/20/21
PERMIT SET DATED 5/13/21

REVISIONS:
DATE: 10/20/20 CRAWL
DATE:
DATE:
DATE:

VASHON BASE PLAN
ADDRESS:

PAGE: A 7

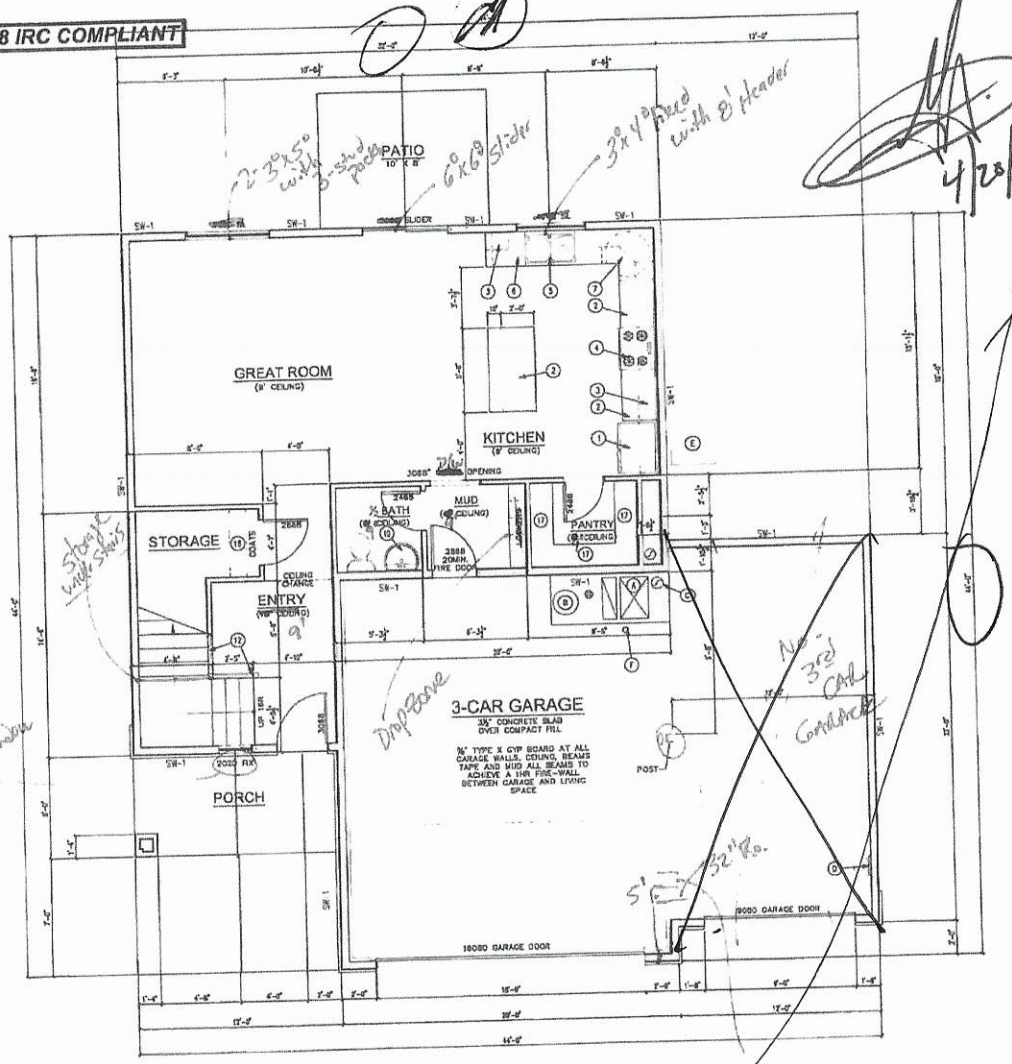
Acknowledgement Of Plans Submittal ONLY!

Date 5-10-2021

Date 5/11/21

Lot 1 (105 trellis)

2018 IRC COMPLIANT



KEY NOTES:

1. 36" WIDE REFRIGERATOR SPACE, (INSTALL WATER LINE)
2. COUNTERTOP OVER 36" HIGH BASE CABINET.
3. UPPER CABINETS (TOP AT 6'-0" A.F.F.)
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17. (4) 16" SHELVES STARTING @ 24" ABOVE FINISHED FLOOR
18. 12" SHELF AND ROD
19. (2) 12" SHELVES AND (2) RODS
20. SINGLE UTILITY SINK

SQUARE FOOTAGE SCHEDULE:

FINISH MAIN FLOOR PLAN:	784
FINISH UPPER FLOOR PLAN:	1090
TOTAL FINISHED SQ. FT:	1884
GARAGE:	734
TOTAL PROJECT SQ. FT:	1884

SHEAR WALL NOTES

ALL EXTERIOR WALLS AND VERTICAL SURFACES AT STEPS IN ROOF SHALL BE SHEATHED WITH 7/16" APA RATED 24/0 OR BETTER STRUCTURAL WOOD PANELS BLOCK ALL PANEL EDGES WITH 2" NOM OR WIDER 2" OR WIDER FRAMING AT ADJOINING PANEL EDGES AND NAILS SHALL BE STAGGERED WHERE 8d NAILS ARE SPACED 3" O.C. OR LESS. SHEATHING SHALL EXTEND CONTINUOUS FROM FLOOR TO TOP PLATE FRAMING ON UPPER EXT WALLS. NAILS SHALL BE PLACED NOT LESS THAN 1/2" FROM EDGE OF PANEL AND DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING EXTEND SHEATHING OVER RIM AND NAIL TO RIM AND WALL PLATES 6" O.C

SHEAR WALL SCHEDULE

TYPE	SHEATHING	NAIL	EDGE	FIELD	STAPLE EQ
TYPICAL	7/16" ONE SIDE	8d	6" O.C.	12" O.C	16G @ 3" O.C.
SW-1	7/16" ONE SIDE	8d	4" O.C.	12" O.C	16G @ 2" O.C
SW-2	7/16" ONE SIDE	8d	3" O.C.	12" O.C	NOT ALLOWED
SW-3	7/16" ONE SIDE	8d	2" O.C.	12" O.C	NOT ALLOWED

NOTE: 15 GAUGE STAPLES MAY BE SUBSTITUTED FOR 8d NAILS AT 1/2 SPACING ON TYPICAL AND SW-1.
SW-2 AND SW-3 REQUIRE 3X OR (2) 2X ON JOINING PANEL EDGES.

MECHANICAL KEY NOTES

A. 90% MIN. EFFICIENT DIRECT VENT FURNACE.
B. 40 GALLON GAS WATER HEATER WITH TEMPERATURE SAFETY VALVE.
C. FLUE
D. ELECTRICAL PANEL
E. 13 SEER A/C UNIT
F. 4" DIAMETER STEEL BOLLARD

MAIN FLOOR PLAN

SCALE: ¼" = 1'-0"

Acknowledgement Of Plans Submittal ONLY!

Date 5/10/21

Date 5/14/21

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ARCHITECTURAL DESIGN AND DRAFTING
www.archwaydesigns.com

PLAN STATUS

PRELIMINARY DRAWINGS DATED:

1ST DRAFT DATED:

FINAL DRAFT DATED: 4/19/18

PERMIT SET DATED: 5/19/18

REVISIONS:

DATE: 10/29/20 CRAWL
DATE:
DATE:
DATE:
DATE:

VASHON BASE PLAN

ADDRESS:

PAGE: A 6

Lot 2

Zoning Permit # 3166008
Fee $45.00 **Code** 104

See reverse for new construction.

Zoning Permit

LOCATION	Date (mm/dd/yy)	3/30/21	Tax Parcel #	4741118872
	Business Name or Property Owner	Jimmie D. Jones		
	Street Address	105 Trellis Lane Troutman, NC 28166		
	Business Type and/or Project Description	new residential construction		
APPLICANT	Applicant	TruNorth Homes	Preferred Phone	(704) 363-2845
	Address City/State/Zip	631-300 Brawley School Rd PMB 217 Mooresville, NC 28117		
	E-Mail	lauren@trunorthhomes.com		
	Would you like your e-mail address added to: (check any of interest)	☐ The Whistle Stop (Town of Troutman newsletter) ☐ Troutman Business Council (Local Chamber of Commerce) ☐ Sunshine List (Agenda for Town Board Meetings)		

Following approval of this permit proceed to Iredell County Building Inspections (349 N Center St, Statesville, NC 28677). All Applicants, please note that final inspection by the Town is required prior to occupancy (exception, single family residential additions/expansions). Business Applicants, please note that proof of RPZ (backflow) inspection is required prior to occupancy (in addition, restaurants may be required to have a grease trap inspection).

Office Use Only

Zoning District(s)	RS	Plans Attached	Yes ☑ No ☐
Utilities	Well + Septic	Floodplain	Yes ☐ No ☑
Permitted Use of Property	SFR		
Minimum Setback Requirements	Front 25', Rear 25', Right Side 25', Left Side 15' *Setback measured from nearest projecting point of structure to Property Line.*		
Comments: Landscaping required (trees)			

I hereby certify that all of the information provided for this application is, to the best of my knowledge, accurate and complete. I understand that this permit will expire and become invalid unless the work for which it was issued is started within six (6) months of the date of issue or is the work authorized is suspended or abandoned for a period of one (1) year.

of Applicant

To the best of my knowledge, this application is deemed complete and approved based on the information provided to me and my knowledge of the Town of Troutman Unified Development Ordinance.

Signature of Zoning Administrator