ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP3166605

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

PIN # 4741118617

APPLICANT/OWNER: Tru North Homes / Garrison Davis APPLICANT ADDRESS: 631/300 Brawley School Rd Mooresville NC 28117.

SITE ADDRESS: 104 Trellis Lane Troutman NC 28166 PHONE: 704/363 2845 ALT. PHONE –

SITE DIRECTIONS: Hwy 21 Autumn Leaf Rd Trellis Rd. SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Normandy Breeze SECTION: 1 LOT # 69. LOT AREA: DESIGN FLOW: 360 L.T.A.R.: .325

Septic Tank 1000 (gal) STB SHOAF 760 Date 6/15/21 ☑ New System ☐ Repair ☐ Expansion System Type: I II III IV V VI

Pump Tank – (gal) PT Date System Description: Gravity - PPBPS - 50% Reduction

Pump Make – Model Serial # Repair System Description: LD - PPBPS - 50% Reduction

Nitrification Fields 1 # Lines 3 Linear Ft 192 Maintenance Agreement Required: ☐ YES ☒ NO

Trench Width 24in Trench Bottom Depth(Low side) 36in Gravel Depth – ☒ GRAVITY ☐ PRESSURE

☑ Residence No. Bedrooms 3 Water Supply

☐ Business No. Persons 6 ☑ Private

☐ Other No. Employees ☐ Public

☑ Slab ☐ Crawl Space ☐ Community

☐ Basement w/plumbing ☐ Basement w/o plumbing

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 # 1231 April 16th 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.

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: 9/10/21 Installed by: Russell Williams

IMPROVEMENT PERMIT by: Benjamin A. Both Date: 5-6-2021 OPERATION PERMIT by: D. Mebery Date: 8/11/21

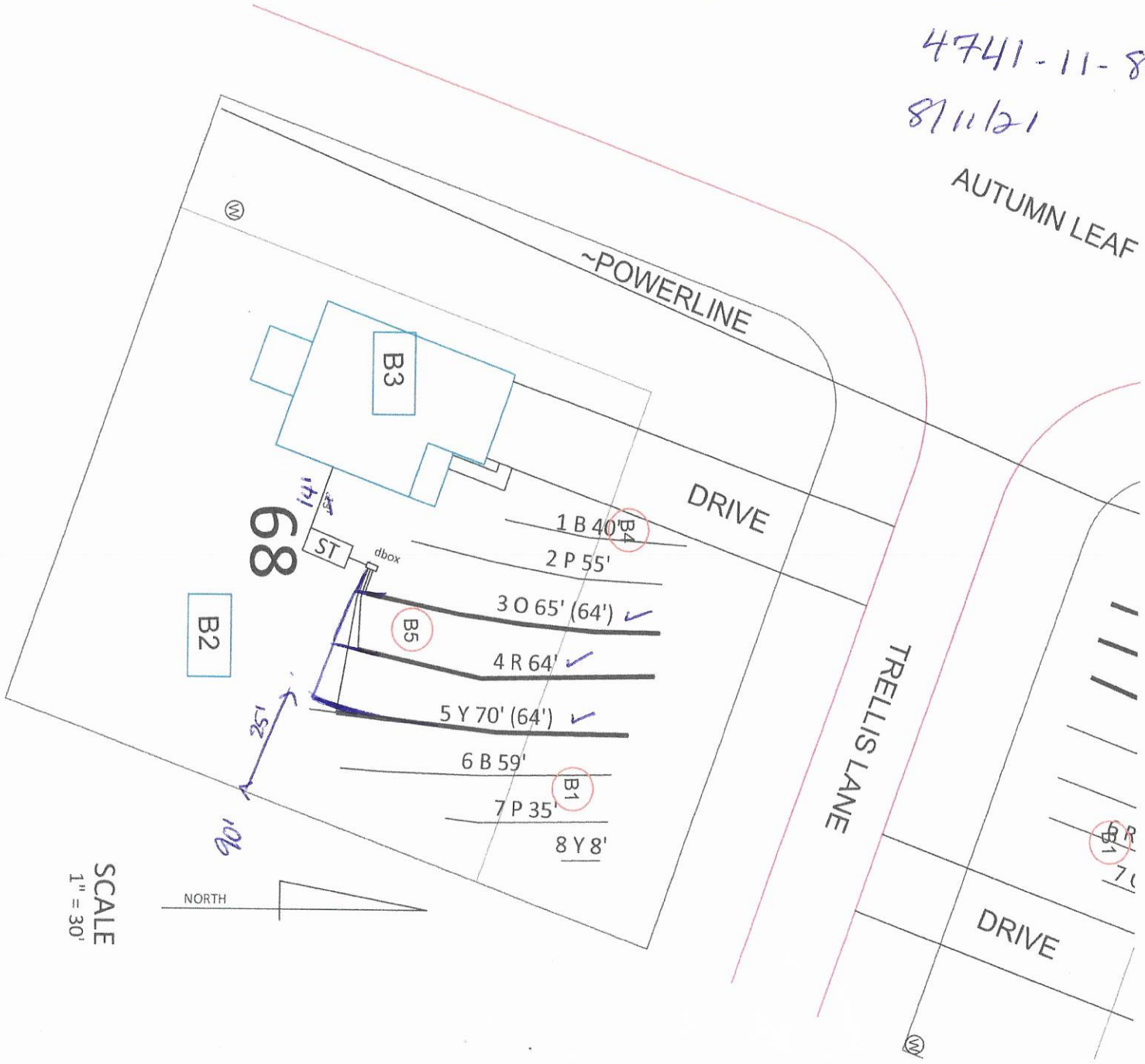
AUTHORIZATION TO CONSTRUCT by: Benjamin A. Both Date: 5-10-2021 Existing System Inspected by: Date:

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

As Built 104 Trellis

4741-11-8612

8/11/21



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 104 Trellis Lane (LOT 68 Normandy Breaks), Troutman, NC 28166, PIN # (4741118612), 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 five boring locations on the property flagged and located via GPS. Three of the five 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: C6A09AA1-8010-44DE-8655-3745A489F3C8

104 Trellis Lane (*See Attached Design*)
The septic layout for this lot (9' centers) yielded a total of 396 linear feet of line. The primary system is proposed as 192 linear feet of Mod. Conv. (PPBPS 50% Reduction) drainfield with gravity distribution. Trench depth is specified at 36 inches. The repair system is proposed as 197 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. Trench depth is specified at 36 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 Martha P McNellis Date

Print Name DocuSigned by:

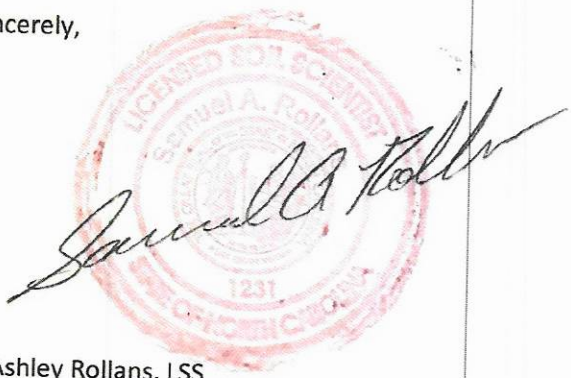
Signature Martha P McNellis 4/23/2021
46201B32744E4EC...

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 104 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 an Modified Conventional Septic System with gravity dist. for a 3 bedroom single family residence at 104 Trellis Lane, PIN#(4741118612) Troutman NC 28166, Iredell County, NC.

Contents:

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



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.
- Septic tank riser shall be a minimum of 6" above finished grade.
- System is specified as a gravity PPBPS installation.
- Repair is specified as a PPBPS with low pressure distribution installation.
- Rake trench walls, lime sidewalls, install trenches 24" wide and have no more than 1/4" fall in 10 feet.

GRAVITY PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Applicant:	Garrison Davis
Address:	631/300 Brawley School Road Mooresville, NC 28117
Phone:	704.363.2845
County:	Iredell
Location:	104 Trellis Lane Troutman, NC 28166
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360
System Flow:	N/A

Design Specifications

Drainfield Size:	192	
Loading Rate (gpd/ft.^{2}):	0.325	
Depth of Gravel in Trench:	N/A	
Gravel Size:	N/A	
Max.Trench Depth (LOW SIDE):	36 in.	Repair Trench Bottom 36 in.
Trench Width:	24 in.	
Septic Tank Size:	1000	

Estimated Supply Line Length:	5
Supply Line Diameter:	4 in. SCH 40 PVC
Supply Line Volume:	1.31
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

104 Trellis Lane

PPBPS SYSTEM

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.325
TOTAL AREA TRENCH BOTTOM:	384
TOTAL LATERAL LENGTH:	192
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	184.6154
SUPPLY LINE LENGTH:	5
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	N/A

Layout Specifications - 104 Trellis Lane-Lot 68

Project #: 21-0009

LAYOUT FOR 3 BEDROOM HOME

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	4/16/2021 DESIGN LINE LENGTH
TBM							
INSTR. 1							
1	BLUE					40	40
2	PINK					55	55
3	***ORANGE***					***65***	***64***
4	***RED***					***64***	***64***
5	***YELLOW***					***70***	***64***
6	BLUE					59	59
7	PINK					35	35
8	YELLOW					8	8
					Total	396	389

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	TRENCH DEPTH
**** System***	***192***	***0.325***	**MOD. CONV**	***0.325***	***PPBPS***	***GRAVITY***	36"
Repair	197	0.325	MOD. CONV	0.325	PPBPS	LOW PRESSURE	36"

Notes: **All measures in feet

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

**Nitrification lines were GPS/tape measure located

GRAVITY PPBPS SPECIFICATIONS - 104 Trellis Lane - Lot 68

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	# of Panels
3	*ORANGE*	*N/A*	*64*	*N/A*	*N/A*	128	15
4	*RED*	*N/A*	*64*	*N/A*	*N/A*	128	15
5	*YELLOW*	*N/A*	*64*	*N/A*	*N/A*	128	15
						384	45

total	**feet =**	**192**	**gal/min =**	**N/A**
		Des. Flow	**360**	
		Pump Run=	**N/A**	
		soil LTAR	**0.325**	
		LTAR +5%	**0.34125**	
		LTAR with mod.	**0.65**	
		LTAR with mod.. + 5%	**0.6825**	

CALCULATIONS

Location 104 Trellis Lane
Troutman, NC 28166
Project Number 20-0091

Lot No: 68

No. of Bedrooms 3

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

LTAR 0.325 $^{gal}/_{ft^2\ day}$

PPBPS? (YES OR NO) YES

Supply Line Length 5 ft.

Supply Line Volume 3.265 gal.

Required Feet of Line 184.6154 ft.
Amount of Line from Layout 192 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

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

Sheet 1 of 2
PROPERTY ID #: 4741118612
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Martha McNellis
ADDRESS: 182 Greyfriars Rd. Mooresville NC 28117
PROPOSED FACILITY: 3BR
PROPOSED DESIGN FLOW (.1949): 300 gpd
LOCATION OF SITE: 104 Trellis Ln, Troutman NC 28166 Lot 68
APPLICATION DATE
DATE EVALUATED: 1/26/21
PROPERTY SIZE: 0.460
PROPERTY RECORDED: Yes
WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 1	L/7%	0-3	BSL Gr	Fr SS SP SE XP		60	–	–	PS .325
		3-6	RBSCL wfsbk	Fr SS SP					
		6-26	BRC wmsbk/ABK	Fr SS SP					
		26-60	RBCL/sc wfsbk	Fr SS SP	Few SMP				
B 2	L/5%	0-11	BSL Gr	Fr SS SP SE XP		50	–	–	(.1) to 27" .225-.3 37%
		11-27	RBC wmsbk/ABK	Fr SS P	C. To Dapl Ch. Mott @ 15" 27 Few SMP				
		27-50	RBCL wfsbk	Fr SS SP					
B 3	L/7%	0-7	BSL Gr	Fr SS SP SE XP		50	–	–	Marg Need Pit for use
		7-12	RBSCL/CL wfsbk	Fr SS SP					
		12-26	BRC wmsbk/ABK	Fr SS P	Few Fe Dapl 15-24" Few SMP Fe Dep 24-42				
		26-50	RBCL/sc wfsbk	Fr SS SP					
B 4	L/7%	0-10	RBCL wmsbk	Fr SS SP SE XP	C. Fe Dapl	66	–	–	PS .325
		10-24	BRC wmsbk/ABK	Fr SS P					
		24-60	RBCL wfsbk	Fr SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Mod. Conv.	PPBDS
Site LTAR	.325	.325

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. Ashley Rollins
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 #: 474111 8612
DATE OF EVALUATION: 1/26/21
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
B 5	L/6%	0-12	RBCL wfsbk	Fr SS SP SE VP		60	–	–	PS 0.325
		12-24	BRC wmsbk	Fr SS SP					
		24-60	RBCL wfsbk	Fr SS SP					

RECEIVED APR 2 6 2021

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

Paid $500.00 Session Law

Application For:
(✓) Septic Improvement Permit ( ) New Well Permit ( ) Authorization to Construct ( ) Well Repair Permit ( ) Existing System Inspection ( ) Well Abandonment ( ) 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- 316605

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: TruNorth Homes/Garrison Davis Address: 631/300 Brawley School Rd Mooresville NC Zip: 28117
Applicant Email: garrison@trunorthhomes.com Phone: 704 363 2845 Alt. Phone:
Owner Name: Martha McNellis Address: 182 Greyfriars Rd, Mooresville NC Zip: 28117
Owner Email: Phone: Alt. Phone:

Property Information:

Street Address: 104 Trellis Ln, Troutman NC 28166
Subdivision Name: [redacted] Normandy Breaks Section/Phase: Lot Number: 68
Driving Directions: Hwy 21, Autumn Leaf Rd, Trellis 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:

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: C6A09AA1-8010-44DE-8655-3745A489F3C8

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, Martha McNellis, am the legal owner(s) of the property located at 104 Trellis Ln, Troutman NC 28166, identified as PIN (Parcel Identification Number) 4741119612, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) SFS-Soil & Forest ag Svcs / Ashley Williams / 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:
X Martha P McNellis 4/23/2021
4630183274E45C...

Signature of Owner(s) Date

Signature of Witness Date

Please return this signed form to the appropriate office:

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

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

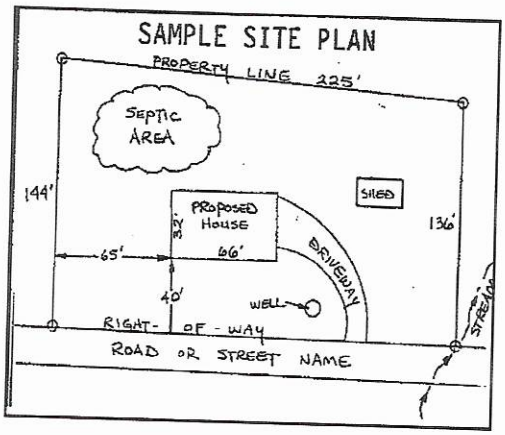
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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

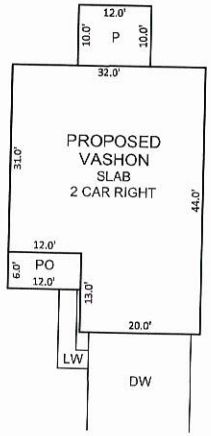
USE THIS SPACE TO DRAW YOUR SITE PLAN

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. 37104474000J, 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
C68	31.42'	20.00'	S64°53'00"W	28.28'



SCALE:
1" = 30 ft.

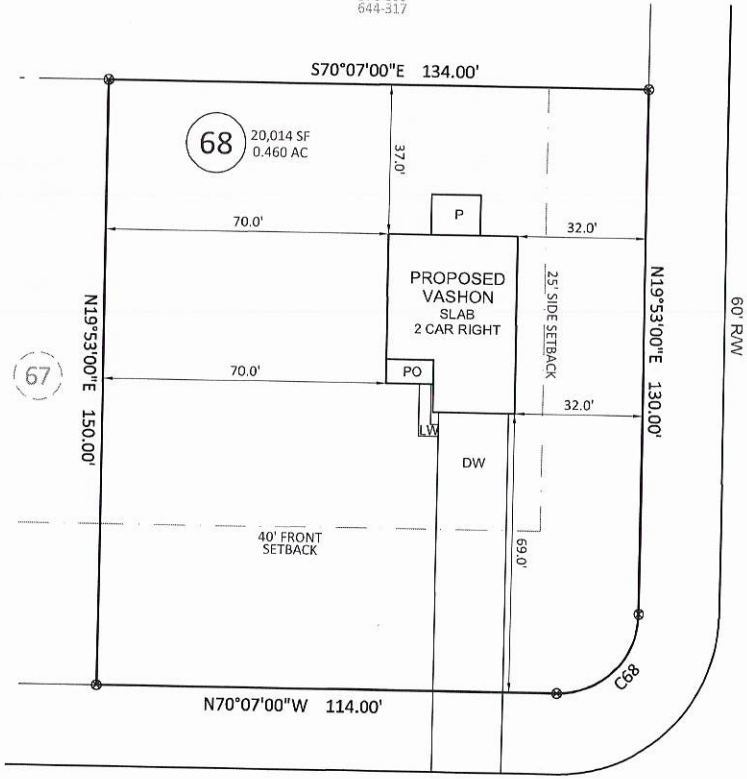


BUILDING SETBACKS:
(unless otherwise noted)
FRONT = 40 ft
SIDE = 25 ft

LOT INFORMATION:

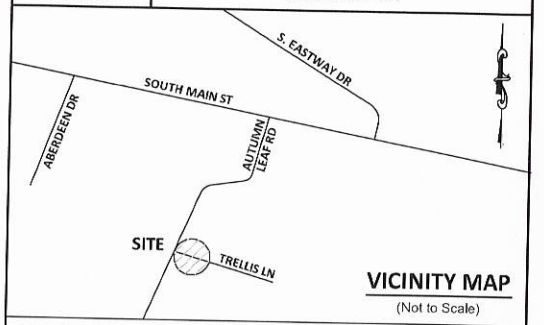
PIN: 4741118612.000
HOUSE = 1,252 SF
DRIVEWAY = 1,173 SF
LEADWALK = 45 SF
PORCH = 72 SF
PATIO = 120 SF
TOTAL LOT AREA = 0.460 AC = 20,014 SF
TOTAL PROPOSED IMPERVIOUS = 2,662 SF
PERCENT IMPERVIOUS = 13.3 %

N/F
JOHN D. CHAPMAN
512-252
576-300
644-317



REVISIONS: MOVE 5' TOWARDS AUTUMN LEAF ROAD PER REQUEST; UPDATE PLOT PLAN 4-21-21 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)
WM = WATER METER
= WATER VALVE
CO = CLEAN OUT
AC = AIR CONDITIONER
= SEWER MANHOLE
EB = ELECTRIC BOX
= CABLE BOX
= TELECOMM BOX
CI = CURB INLET
DI = DROP INLET
YI = YARD INLET
= LIGHT POLE
= FIRE HYDRANT
HH = 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:

PRELIMINARY

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.

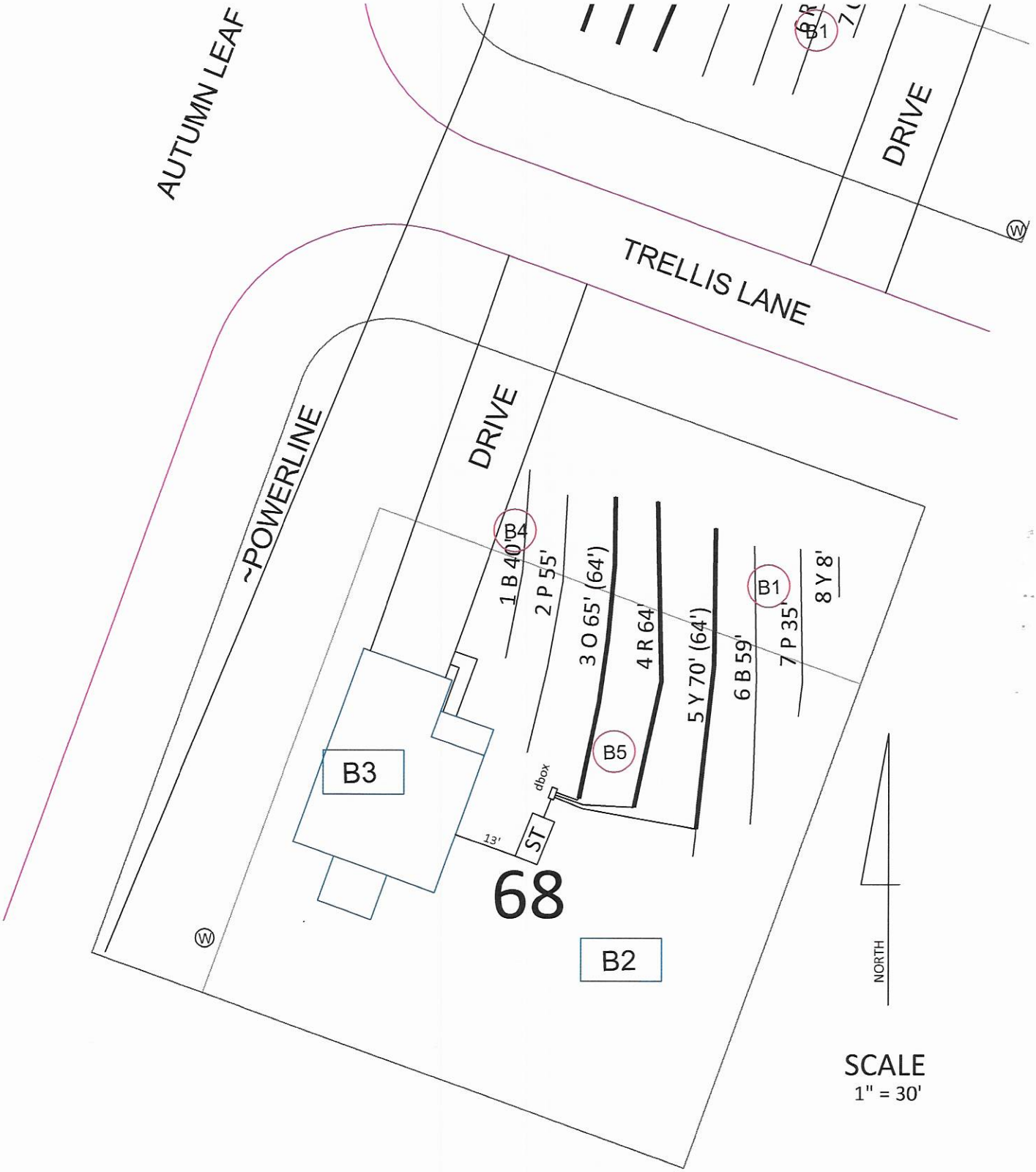
BUILDER TO VERIFY HOUSE MODEL, LOCATION, DIMENSIONS AND REVIEW TOTAL IMPERVIOUS NOTED ON THIS PLOT PLAN

PRELIMINARY PLOT PLAN
FOR
TruNorth Homes, LLC

NORMANDY BREAKS - SECTION 1 - LOT 68
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'

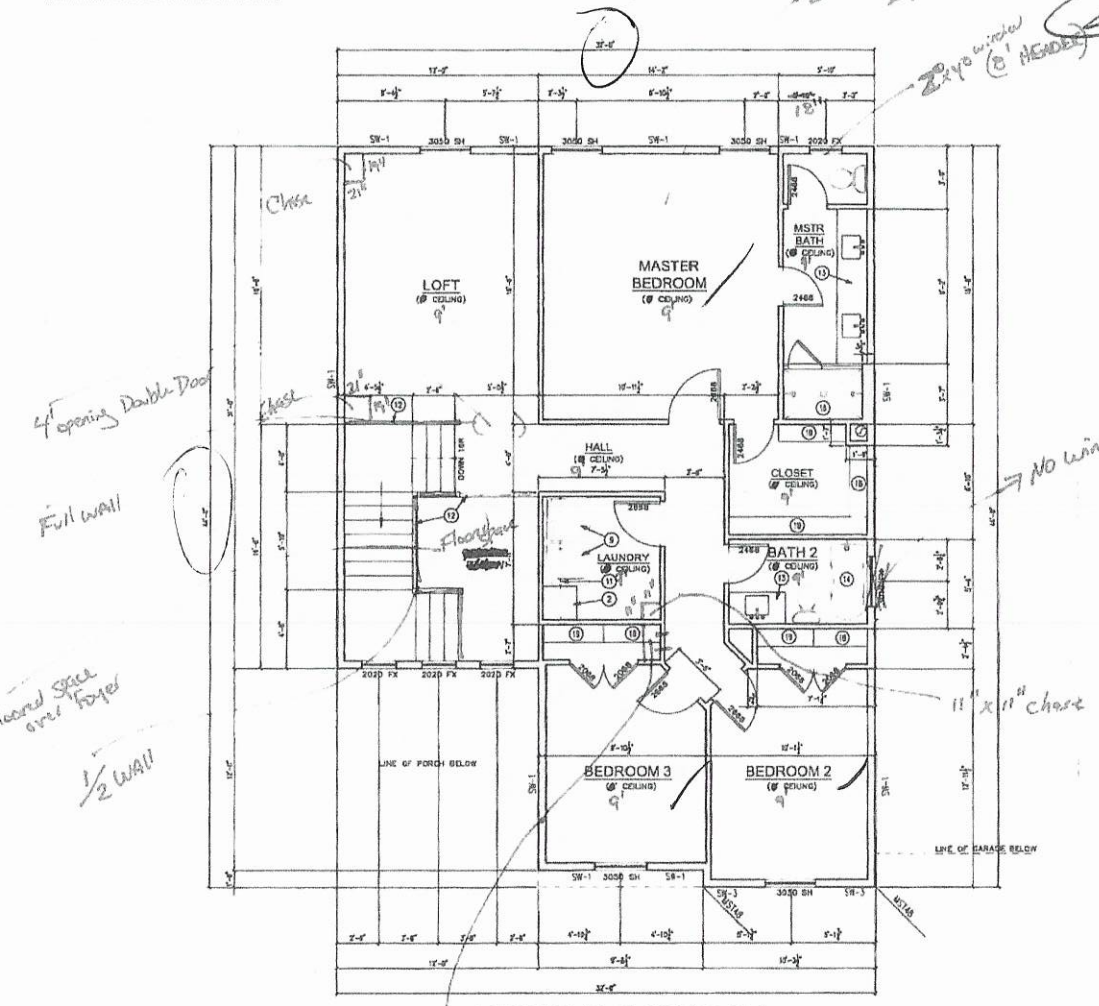
P:\2021 Projects\210236 Normandy Breaks TruNorth Homes\dwg\210236 Normandy Breaks TruNorth Homes Avg. 4/21/2021 12:10:17 PM, mwalker


AUTUMN LEAF
DRIVE
TRELLIS LANE
DRIVE
~POWERLINE
B1
B4
1 B 40'
2 P 55'
3 O 65' (64')
4 R 64'
5 Y 70' (64')
6 B 59'
B1
7 P 35'
8 Y 8'
B5
B3
dbox
13'
ST
68
B2
NORTH
SCALE
1" = 30'

Lot 68 (104 Trillium)

4/20/21

2018 IRC COMPLIANT



UPPER FLOOR PLAN
SCALE: ¼" = 1'-0"

KEY NOTES:

1. 39" WDE REFRIGERATOR SPACE, (INSTALL WATER LINE)
2. COUNTERTOP OVER 36" HIGH BASE CABINET.
3. UPPER CABINETS (TOP AT 6'-0" A.F.F.)
4. 30" WDE 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) 16" 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. 2" OR WIDER FRAMING AT ADJOINING PANEL EDGES AND NAILS SHALL BE STAGGERED WHERE 6d 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 SHEARWING OVER RIM AND NAIL TO RIM AND WALL PLATES 4" O/C

SHEAR WALL SCHEDULE

TYPE	SHEATHING	NAIL	EDGE	FIELD	STAPLE EQ
TYP.EXT.	7/16" ONE SIDE	8d	4" 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	3" O/C	12" O/C	NOT ALLOWED

NOTE: 18 GAUGE STAPLES MAY BE SUBSTITUTED FOR 8d NAILS AT 1/2 SPACING ON TYPICAL AND SW-1
SW-2 AND SW-3 REQUIRE 3X ON (2) 2X ON JOINING PANEL EDGES.

4' opening Double Door
Full wall
Floored Space over Foyer
½ WALL
No window
11" x 11" Chase
Linen 22" Deep 1'x6" R.O.

Acknowledgement Of Plans Submittal ONLY!

Date 5-10-2021.

Date 5/11/21

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

PLAN STATUS

PRELIMINARY DRAWINGS DATED:

1ST DRAFT DATED:

FINAL DRAFT DATED: 4/20/21

PERMIT SET DATED: 5/10/21

REVISIONS:

DATE: 10/30/20 CRAWL
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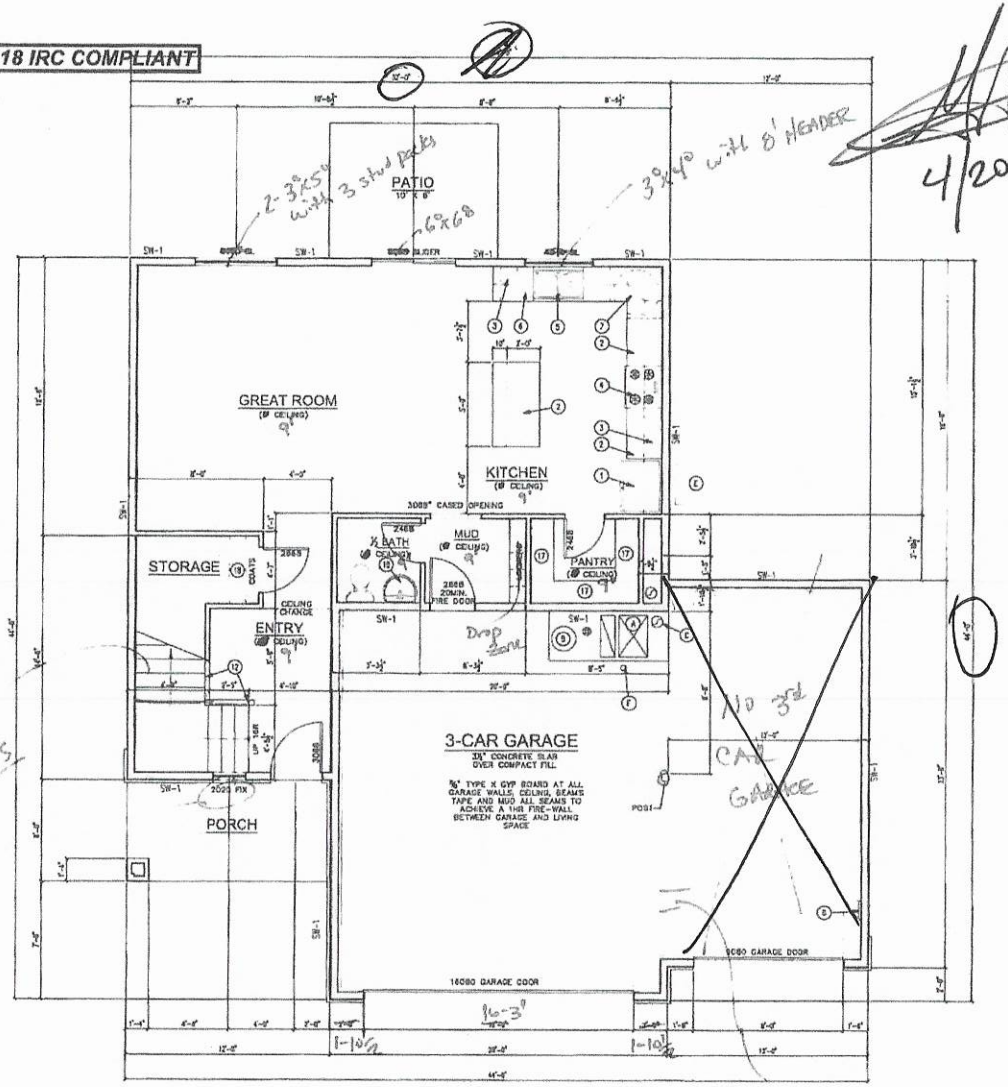
VASHON BASE PLAN

ADDRESS:

PAGE: A 7

lot 68 (104 Trellis)

2018 IRC COMPLIANT



9' ceilings

Storage under stairs

Tempered window

10 3½

CAR GARAGE

32" R.O.
5' From face of garage

4/20/21

KEY NOTES:

1. 39" WDE REFRIGERATOR SPACE, (INSTALL WATER LINE)
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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:	794
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 HORIZ 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 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.
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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 (2) 2X ON JOINING PANEL EDGES.

MECHANICAL KEY NOTES

A. 80% 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

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DATE:

DATE:

VASHON BASE PLAN

ADDRESS:

PAGE: A 6

Acknowledgement Of Plans Submittal ONLY!

Date 5-10-2021

Date 5/10/21

MAIN FLOOR PLAN
SCALE: ¼" = 1'-0"

Zoning Permit # 3161605 Lot 68

Fee $4500 · Code 104

See reverse for new construction.

Zoning Permit

LOCATION	Date (mm/dd/yy)	3/30/21	Tax Parcel #	4741118612
	Business Name or Property Owner	Martha P. McNellis		
	Street Address	104 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 15', Left Side 25' *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.

Signature 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