ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625 PERMIT # AP 316391

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

PIN # 4741627706

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

SITE ADDRESS: 159 Lewo Drive Troutman NC 28166 PHONE: 704 363-2845 ALT. PHONE -

SITE DIRECTIONS: Peery Rd to Lewo Drive SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Peery Heights SECTION: - LOT # 10 LOT AREA: DESIGN FLOW: 360 L.T.A.R.: 30

Septic Tank	1600	(gal)	STB	Infiltrator	Date	-	☒ New System	☐ Repair	☐ Expansion	System Type: I II (III) IV V VI	☒ Residence	No. Bedrooms	3	Water Supply
Pump Tank	1000	(gal)	PT	Infiltrator	Date	-	System Description:	PM - 25% Reductio			☐ Business	No. Persons	6	☒ Private
Pump Make	Zoeller	Model	N153		Serial #		Repair System Description:	CP - PP BPS - 50% Reductio			☐ Other	No. Employees		☐ Public
# Nitrification Fields	1	# Lines	4		Linear Ft	360	Maintenance Agreement Required:	☐ YES	☒ NO		☒ Slab	☐ Crawl Space		☐ Community
Trench Width	36	Trench Bottom Depth(Low side)	30 in		Gravel Depth	-		☐ GRAVITY	☒ PRESSURE		☐ Basement w/ plumbing		☐ Basement w/o plumbing	

Comments / Conditions:

Verify tank is not over 36" below grade to sign OP

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 March 31, 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.

As built attached

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: 4/20/21 Installed by: Russell Williams Wastewater Solutions + Design 8-18-2021

IMPROVEMENT PERMIT by: Benjamin A Rytter Date: 4-19-2021 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: Benjamin A Rytter Date: 4-19-2021 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	7/14/21	DW
Tanks Checked	7/14/21	DW
Pressure Manifold or Valve Box Checked	8/13/21	
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y (N)		
Comments:		
Verify tank depth not >36" when covered		

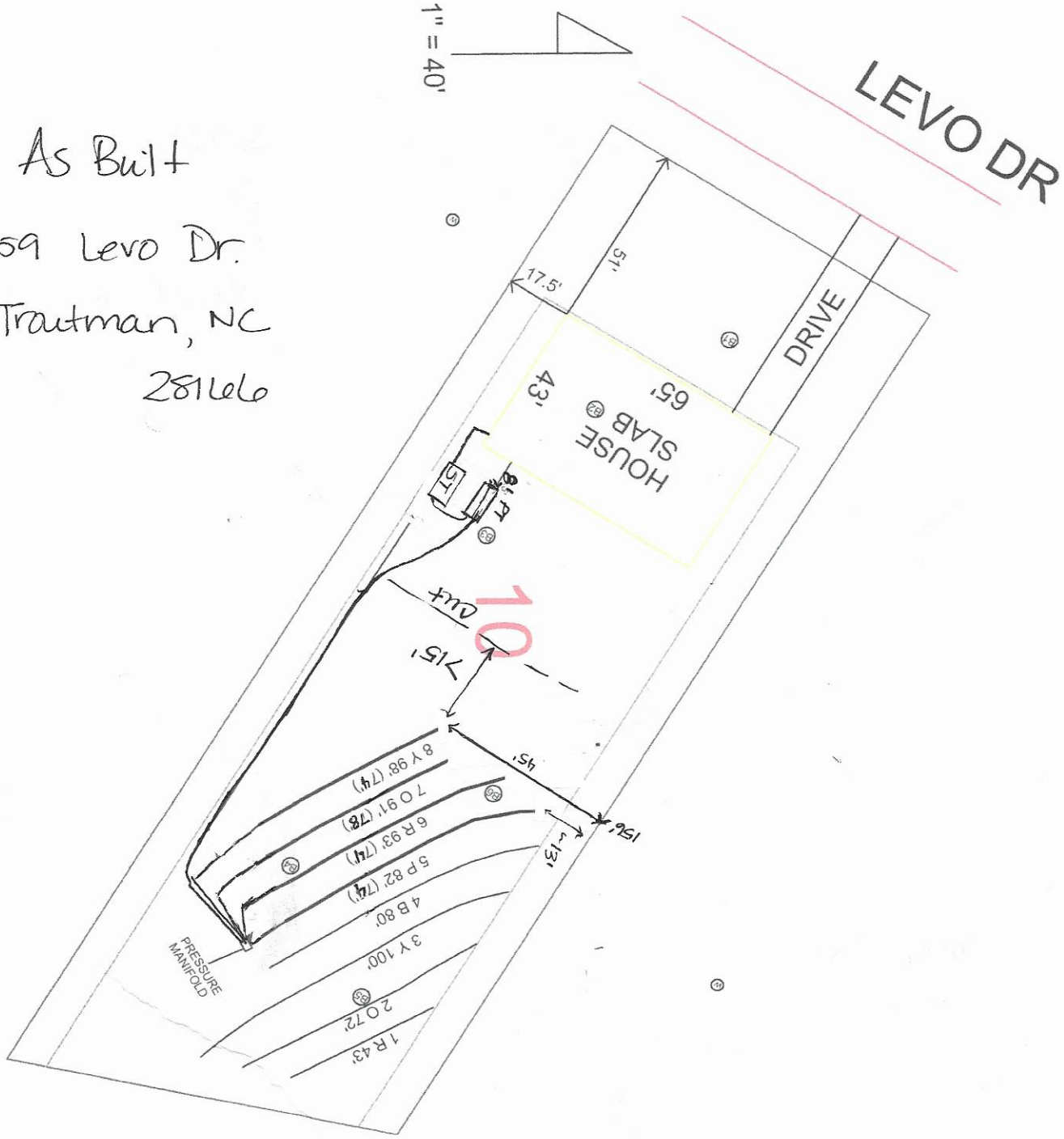
Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	

As Built

159 Levo Dr.

Trautman, NC

28166



SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 21-0025

March 31st, 2021

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

RE: Soil & Site Evaluation for a 3 Bedroom Residence (Slab) at Lot 10 Levo Dr., Perry Heights Subdivision , Troutman, NC 28166, .663 ac Parcel, PIN# 4741627706, 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 cleared. 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 Bateman Civil Survey Co. The Surveyor provided an Autocad File of the survey as a basemap. The proposed septic layout was located via Tape Measures/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 setbacks to property lines.

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 six boring locations on the property flagged and located via GPS. Three of the six 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/GPS. Detailed system & repair information is summarized in the following paragraph for this Lot.

DocuSign Envelope ID: 7A5AA7CF-2891-4748-96E8-E431822F4C30

Lot 10 Perry Heights Subdivision-Levo Dr. *(See Attached Design)*
The septic layout for this lot (9' centers) yielded a total of 659 linear feet of line. The primary system is proposed as 300 linear feet of Accepted (25% Reduction) drainfield with pressure manifold distribution. Trench depth is specified at 30 inches. The repair system is proposed as 200 linear feet of PPBPS (50% Reduction) drainfield with low pressure distribution. There is 295 linear feet available for repair. Trench depth is specified at 30 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).".

Brian Dunagan
Owner Date 4/1/2021
Lucinda Dunagan
Print Name
Signature
DocuSigned by:
BE9EDF561101458...
DocuSigned by:
Brian Dunagan
69E0090C0E3412B...
4/1/2021

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 Lot 10 Perry Heights Subdivision-Levo Dr. 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,

LICENSED SOIL SCIENTIST
Samuel A. Rollans
1231
SOIL CONSERVATIONIST

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 Levo Dr. Perry Heights Subdivision Lot 10, (PIN #:4741627706), Troutman NC, 28166.

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Design Information

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Survey---------- 17

LICENSED SOIL SCIENTIST
1231
STATE OF NORTH CAROLINA

March 31, 2021
Project No. 21-0025
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.

PRESSURE MANIFOLD SYSTEM FOR WASTEWATER TREATMENT

Owner/Applicant:	Garrison Davis
Address:	631/300 Brawley School Road Mooresville, NC 28117
Phone:	704.363.2845
County:	Iredell
Location:	Perry Heights- Lot 10
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Daily Wastewater Production:	360 gpd
System Flow:	28.44

Design Specifications

Drainfield Size:	300
Loading Rate:	0.3
Depth of Gravel in Trench:	NA (25% reduction)
Gravel Size:	NA (25% reduction)
Trench Depth (LOW SIDE):	30 in. Repair Trench Depth 30 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	137
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	23.84
Dosing Volume:	146.93
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:	2.44
Elevation Head:	11.50
Total Dynamic Head:	18.33
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.

Perry Heights- Lot 10
PRESSURE MANIFOLD DESIGN

DESIGN FLOW:	360	
SOIL APPLICATION RATE:	0.3	
TOTAL AREA TRENCH BOTTOM:	900	
TOTAL LATERAL LENGTH:	300	
NUMBER OF FIELDS:	1	
LATERAL LENGTH REQUIRED PER FIELD:	300	
SUPPLY LINE LENGTH:	137	
TOTAL DYNAMIC HEAD:	18.33	
MANIFOLD SIZE:	4 in.SCH 80 PVC	
DOSING VOLUME:	146.93	
PUMP TANK DRAW DOWN*:	7.0	
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 - Perry HeightsLot 10

Project #: 21-0025

LAYOUT FOR 3 BEDROOM HOME March 31, 2021

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM							
HOUSE					865.00		
PUMP TANK					866.00		
INSTR. 1							
1	RED				876.00	43	43
2	ORANGE				875.00	72	72
3	YELLOW				874.00	100	100
4	BLUE				873.40	80	80
5	*PINK*				*872.60*	*82*	*75*
6	*RED*				*871.90*	*93*	*75*
7	*ORANGE*				*871.10*	*91*	*75*
8	*YELLOW*				*870.50*	*98*	*75*
					Total	659	595

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	*300*	*0.300*	*ACCEPT.*	*0.300*	*25% RED*	*PRESSURE MANIFOLD*
Repair	295	0.300	MOD. CONV.	0.300	PPBPS	LOW PRESSURE

Notes: **All measures in feet

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

**Nitrification lines were located by GPS.

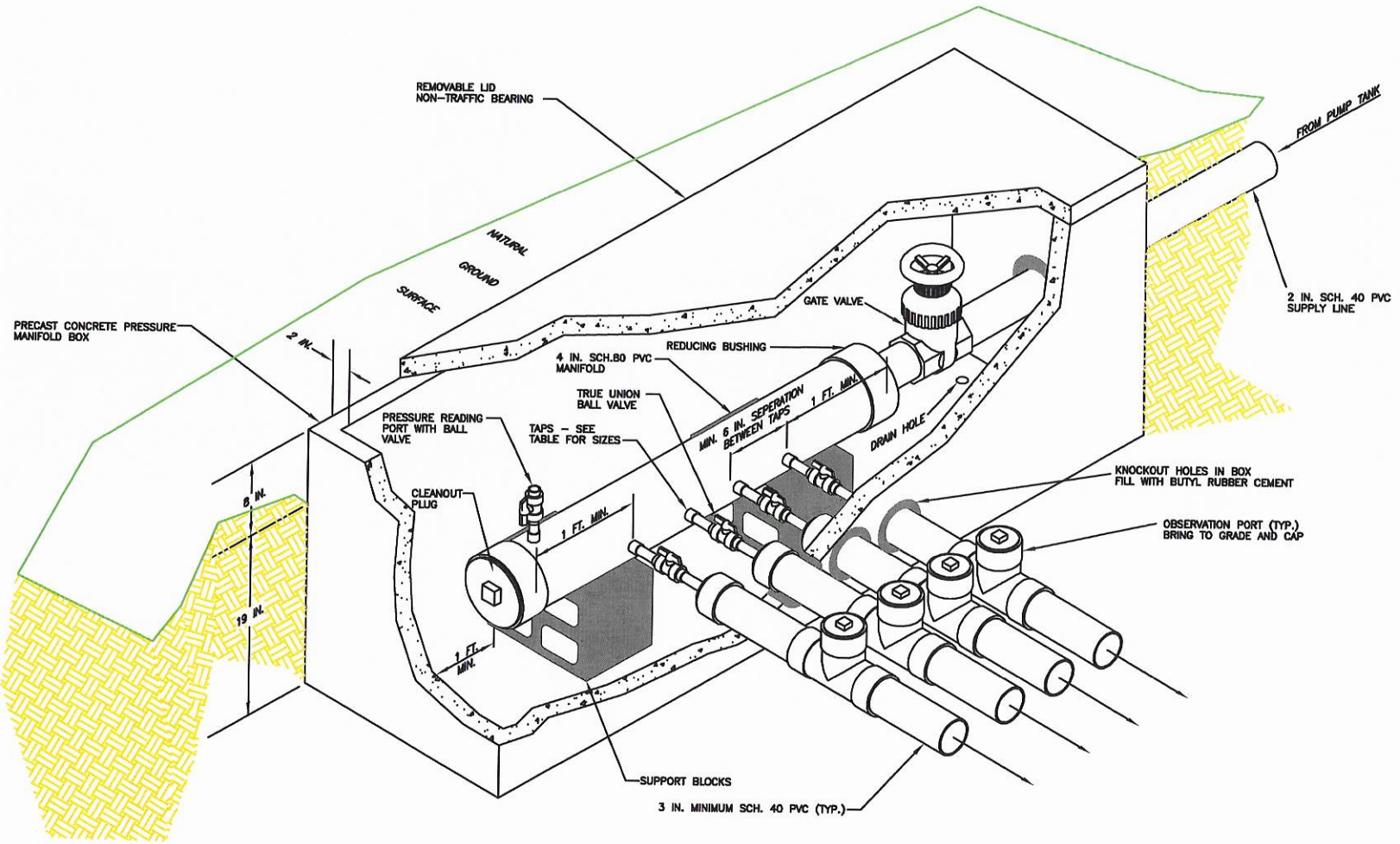
PRESSURE MANIFOLD TAPSHEET - Perry Heights Lot 10

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/Tap	Trench Area	Line LTAR
5	***PINK***	***872.60***	75	SCH 40 1/2	**7.11**	225	0.16
6	***RED***	***871.90***	75	SCH 40 1/2	**7.11**	225	0.16
7	***ORANGE***	***871.10***	75	SCH 40 1/2	**7.11**	225	0.16
8	***YELLOW***	***870.50***	75	SCH 40 1/2	**7.11**	225	0.16

total	**feet =**	**300**	**gal/min =**	**28.44**
		Des. Flow	**360**	
		Pump Run=	**5.17**	
		soil LTAR	**0.3**	
		LTAR +5%	**0.315**	
		LTAR with ACCEPTED	**0.4**	
		LTAR with ACCEPTED + 5%	**0.42**	

TYPICAL PRESSURE MANIFOLD DETAIL



PROPERTY ID #: 474162T006
COUNTY: Iredell

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

OWNER: Brian & Lucinda Dunagan — APPLICATION DATE: ____
ADDRESS: 719 Deep Ford Rd Apt G, Lansing NC 28643 — DATE EVALUATED: 3/2/21
PROPOSED FACILITY: 3 BR — PROPOSED DESIGN FLOW (.1949): 360 gpd — PROPERTY SIZE: .663
LOCATION OF SITE: NEQ Levo Dr. Troutman NC 28166 — 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	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 1	L/9%	0-2	BCL wmsbk	Fr SS SP SEXP		50	—	—	PS .3-.325
		2-26	BRC wmsbk	Fr SS SP "					
		26-50	BRCL wfsbk	Fr SS SP "					
B 2	L/9%	0-9	BCL wmsbk	Fr SS SP SEXP		50	—	—	PS .3-.325
		9-27	BRC wmsbk	Fr SS SP "					
		27-50	BRCL wfsbk	Fr SS SP "	Few SAP				
B 3	L/9%	0-4	BCL wmsbk	Fr SS SP SEXP		50	—	—	PS .275
		4-26	BRC wmsbk	Fr SS SP "					
		26-50	BRCL wfsbk	Fr SS SP "	Few Mgn.				
B 4	L/8%	0-3	BCL wmsbk	Fr SS SP SEXP		50	—	—	PS .3-.325
		3-27	RC wmsbk/rbk	Fr SS SP					
		27-50	RCL wfsbk	Fr SS SP"					

LICENSED SOIL SCIENTIST Samuel A. Rollins

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

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)

PROPERTY ID #: 4741627706

DATE OF EVALUATION: 3/2/21 & 3/30/21

COUNTY: Iredell

3/30/21

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
B5	L/6%	0-3	RBCL wfsbk	Fr SS SP SEXP	few SAP Inclu.	50	—	—	PS .3-.325
		3-28	RC wmsbk/Abk	Fr SS SP					
		28-50	RBCL wfsbk	Fr SS SP					
B6	L/8%	0-5	Bsl sr	Fr SSSPSEXP	f sap	50	—	—	PS .3-.325
		5-27	Rcwmsbk/Mbk	~~Fr~~ SS SP ~					
		27-50	RBcl mfsbk	~~Fr~~ SS ~~SP~~ ~					

CALCULATIONS

Location	Perry Heights Lot 10	
Project Number	21-0025	
Lot No:	10	
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.300	$^{gpd}/_{ft^2}$
25% RED.? (YES OR NO)	YES	
Supply Line Length	137	ft.
Supply Line Volume	23.838	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	300	ft.
Gallons per Minute	28.44	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	195.9	gal.
Dosing Volume	146.93	gal.

Note: Dosing Volume based on 75% of lateral line volume

Tank Draw Down	7.0	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.17	minutes
Elevation Head	11.5	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	2.44	ft.
Total Dynamic Head (+15%)	18.33	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

RECEIVED APR 5 - 2021

IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

APPLICATION FORM

AP- 316391 Paid $500.00

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 Session Law

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: Brian & Lucinda Donagan Address: 717 Deep Ford Rd Apt. G, Lansing NC Zip: 28643
Owner Email: _____ Phone: _____ Alt. Phone: _____

Property Information:

Street Address: 159 Levo Dr. Troutman NC 28166
Subdivision Name: Perry Heights Section/Phase: _____ Lot Number: 10
Driving Directions: Perry Rd to Levo Dr.

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 Tollison 3/31/21
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

DocuSign Envelope ID: 84B8FD82-4657-4EC8-829C-29CB5D37CA6B

Public Health
Prevent. Promote. Protect
Iredell County Health Department

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

Public Health
Prevent. Promote. Protect
Iredell County Health Department

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

☐ **1. * APPLICANT AND OWNER ARE THE SAME. *** (*Sign here*) _____

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative: *Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship*
In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:
Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form. If there are multiple property owners, then all property owners must sign the form that designates a legal representative.
By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

☑ **2.** I, Brian Dunagan Lucinda Dunagan, am the legal owner(s) of the property located at Lot 10 Levo Drive Troutman, NC 28166, identified as PIN (Parcel Identification Number) 4741627706, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) ~~Soil & Forestry Services/ Ashley Rothans~~ TruNorth Homes/ 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: BE9EDF561101438... DocuSigned by: Brian Dunagan 63E6090C0E35428...
Signature of Owner(s)

3/25/2021
3/25/2021
Date

Mooresville - Environmental Health

Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

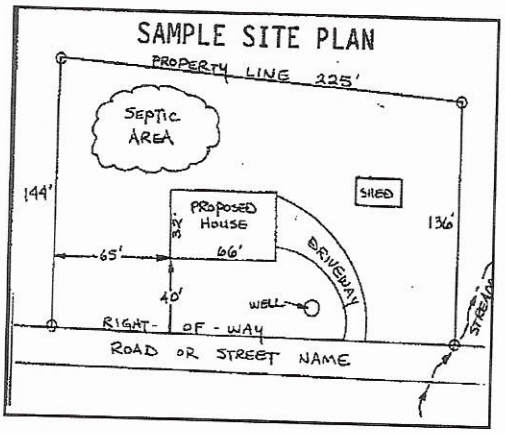
IREDELL COUNTY DEPARTMENT of ENVIRONMENTAL HEALTH

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

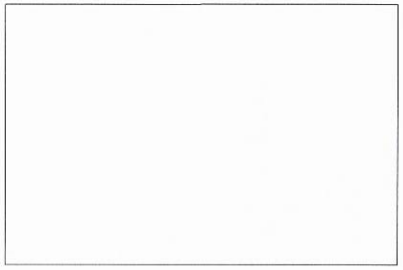
DATE

1" = 40'
LEVO DR
DRIVE
HOUSE SLAB
43'
65'
17.5'
51'
10.5'
PT
LS
10
8 Y 98' (75')
7 O 91' (75')
6 R 93' (75')
5 P 82' (75')
4 B 80'
3 Y 100'
2 O 72'
1 R 43'
PRESSURE MANIFOLD

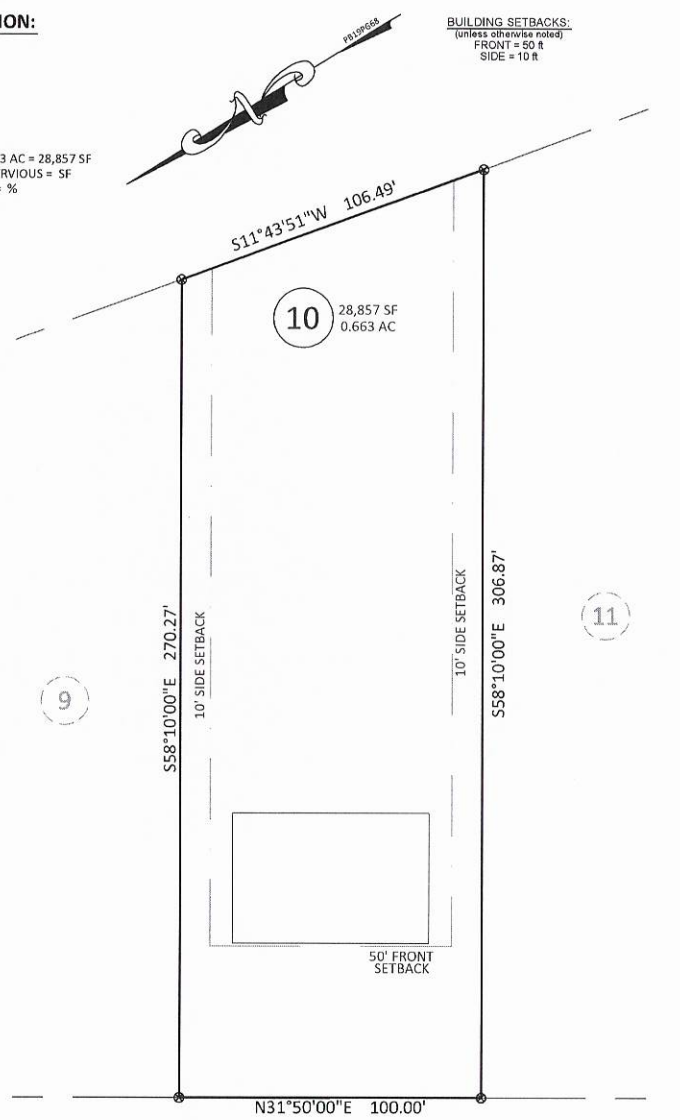
LOT INFORMATION:

PIN: 4741627706.000
HOUSE = SF
DRIVEWAY = SF
LEADWALK = SF
PORCH = SF
PATIO = SF
AC PAD = 9 SF
TOTAL LOT AREA = 0.663 AC = 28,857 SF
TOTAL PROPOSED IMPERVIOUS = SF
PERCENT IMPERVIOUS = %

BUILDING SETBACKS:
(unless otherwise noted)
FRONT = 50 ft
SIDE = 10 ft



INSET SCALE: 1"=20'



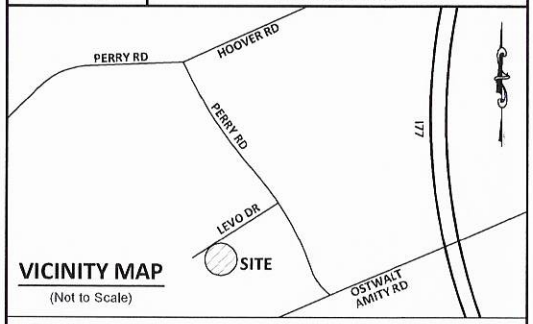
LEVO DRIVE
PUBLIC 50' R/W

SCALE:
1" = 40 ft.

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. 3710447000J, 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

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
WV = WATER VALVE
CO = CLEAN OUT
AC = AIR CONDITIONER
S = SEWER MANHOLE
EB = ELECTRIC BOX
C = CABLE BOX
T = 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:

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

PERRY HEIGHTS - LOT 10
LEVO DRIVE, TROUTMAN, NC
BARRINGER TOWNSHIP, IREDELL COUNTY

DATE: 3/09/21 DRAWN BY: NMW CHECKED BY: SPC

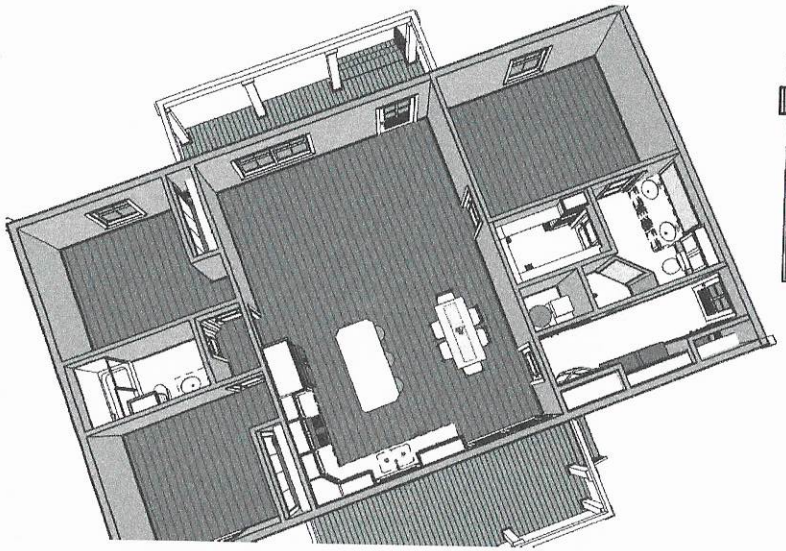
REFERENCE: PB 19, PG 68 PROJECT #: 210254 SCALE: 1" = 40'

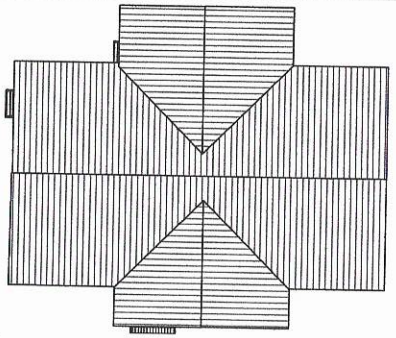
P:\2021 Projects\210254 Perry Heights TruNorth Homes\dwg\210254 Perry Heights TruNorth Homes.dwg, 3/30/2021 12:30:10 PM, nwalker

Acknowledgement Of
Plans Submittal ONLY!

Date

4/5/21 Date





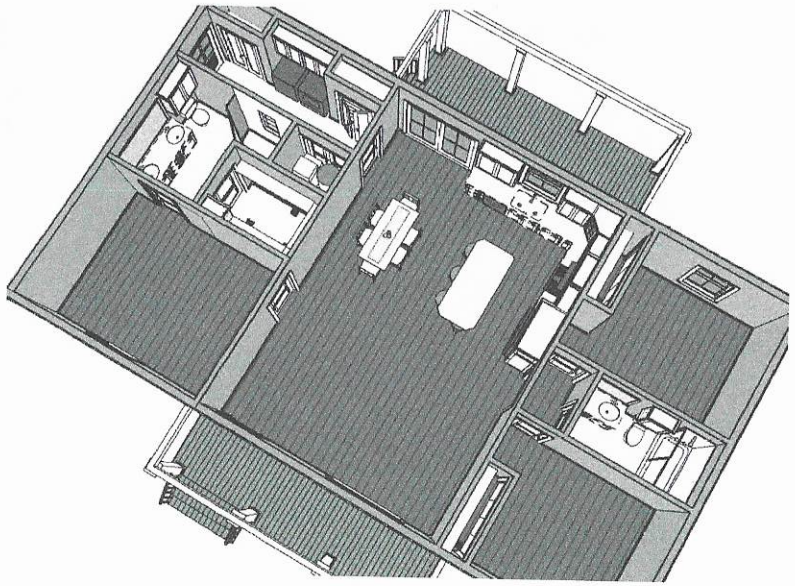
ROOF LAYOUT
SCALE-1/8"=1'-0"

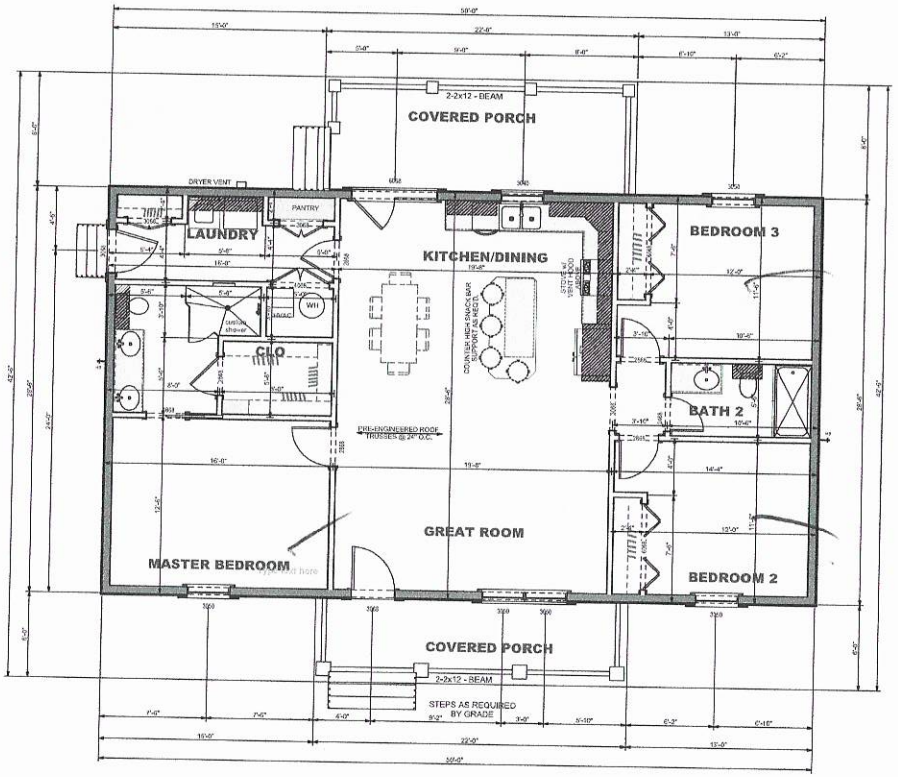
DOOR SCHEDULE

QTY	SIZE	DIMENSIONS	DESCRIPTION
1	2468	24"X80"X1 3/8"	HINGED 2 PANEL DOOR
1	2668	26"X80"X1 3/8"	HOOK'S 2 PANEL DOORS
1	2963	36"X80"X1 3/8"	DOORWAY
1	2863	32"X80"X1 3/8"	HINGED 2 PANEL DOOR
2	2068	20"X80"X1 3/8"	DOUBLE HINGED 2-PANEL
1	2868	32"X80"X1 3/8"	DOUBLE HINGED 2 PANEL DOOR
1	3068	14'-0"X80"X1 3/8"	4 DR. BIFOLDS
2	3068	60"X80"X1 3/8"	EXT. DOUBLE HINGED 2-GLASS PANEL
2	3068	36"X80"X1 3/8"	EXT. HINGED DOOR 1/2

WINDOW SCHEDULE

QTY	SIZE	DIMENSIONS	DESCRIPTION
1	1836	18"X36"	FIXED GLASS
1	2460	24"X60"	SINGLE HUNG
5	3060	30"X60"	SINGLE HUNG





FLOOR PLAN SHEET

NOTICE: ANY DISCREPANCIES, ERRORS AND OR OMISSIONS IN THE NOTES, DIMENSIONS, AND/OR DRAWINGS CONTAINED ON THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION PRECEDING WITH CONSTRUCTION CONSTITUTES THE ACCEPTANCE OF THE DOCUMENTS AND ANY DISCREPANCIES. ERRORS AND/OR OMISSIONS BECOME THE RESPONSIBILITY OF THE BUILDING CONTRACTOR.

N·C·B·D·C
A NATIONAL COUNCIL OF
Debra Purvis
CERTIFIED BUILDING DESIGNER

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Clients rights are limited to a one-time use to construct a single house on a lot per contract.

AIBD

RESIDENTIAL DESIGNERS
234 North Magnolia Drive
Wiggins, MS 39577
601-928-3234
DesignHouse Inc.

For God loved the world, that He gave His only begotten son, that whosoever believeth in him should not perish but have everlasting life. - John 3:16

PLAN NUMBER
1425

Copyright - DesignHouse Inc.
07/01/2015
on Date noted above.

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

SQUARE FT.

Heated Area	1425
Covered Porches	308

Area does not including Ext. Finishes

REVISIONS

DATE	REVISION MADE

IREDELL COUNTY · NC

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

APPLICATION NUMBER
316391
Issue Date:

Permit Type: ZONING

Parcel Number	Street Address	Jurisdiction
4741627706.000		Iredell County

Owner Information	Applicant Information
Name: DUNAGAN BRIAN P+LUCINDA	Name: TRUNORTH HOMES LLC
Address: 159 Levo	Address: 631-300 BRAWLEY SCHOOL ROAD PMB 217
,	MOORESVILLE, NC 28117
Phone:	Phone: (704)363-2845

Use Requested	Zone Code
Single Family Dwelling	RA

Lot Acreage	F Setback	B Setback	L Setback	R Setback	Watershed	Flood Zone
0	35	35	15	15		NO

Remarks
SFD

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: 04/05/2021

Permit Number	316391	TOTAL FEES:	