ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 x3456 Mooresville Office (704) 660-3625

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

PERMIT # OSWP 2024-48004

PIN # 4730 - 58 - 0671

APPLICANT/OWNER: Soil & Forestry Services LLC

APPLICANT ADDRESS: 126 3rd Creek Rd, Statesville, NC 28677

SITE ADDRESS: 150 Meadow Glen Drive, Troutman, NC 28166

PHONE: 704-881-6264

ALT. PHONE

SITE DIRECTIONS: N Perth -> L State Park -> R Meadow Glen - lot on R at corner or Meadow Glen & Valley Glen

SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: Meadow Glen

SECTION: 4

LOT # 121

LOT AREA: 0.48

DESIGN FLOW: 360

L.T.A.R.(Initial): 0.3

L.T.A.R (Repair): 0.3

Septic Tank 1000 (gal) STB Date

Pump Tank 1000 (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 2 Linear Ft: 50

Trench Width 24 *Max. Trench Depth(Initial) 30 *Max. Trench Depth(Repair) 30 Gravel Depth n/a

* Measured on the downhill side of the trench

Effluent Standard: ☑ DSE ☐ HSE ☐ TS-I ☐ TS-II ☐ RCW ☐ NSF/ANSI 40

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

System Description: LPVPPBPS (existing + new footage)

Repair System Description: LPPVPBPS

Maintenance Agreement Required: ☑ YES ☐ NO

☐ GRAVITY ☑ PRESSURE

Usable Depth to LC (Initial): 50

Usable Depth to LC (Repair): 50 *Limiting Condition*

☑ Residence No. Bedrooms 3

☐ Business No. Persons 6

☐ Other No. Employees

☐ Slab ☑ Crawl Space

☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply

☐ Private

☑ Public

☐ Community

Comments / Conditions: This permit is a redraw to modify the drainfield to accomodate the driveway.

Removing one line, shortening two others. Add to the bottom line & installing an alternate down the hill from the existing system.

200' Total Required after changes

INITIAL SITE SKETCH

Improvement permit issued pursuant to: G.S. 130A-335(a2), (a3) & (a4) using signed & sealed LLS/LG Evaluation attached, from:

Ashley Rollans

LSS# 1231

Construction authorization issued pursuant to: G.S. 130A-335(a2) & (a5)

AOWE# 10027E

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.

Tanks top 2 lines
DW 11/20/23

Checked Bottom 3 lines, Supply Line, CVB
MW 11/28/23

See Notes on As Built

SH 4/3/24 } New lines checked PM

PH
Electrical
Floats
Alarm
M.A } DW 8/12/24

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: Online signature Date:

Installed by: Galle Grading

IMPROVEMENT PERMIT by: D. Wieberg Date: 3/4/24

OPERATION PERMIT by: Dwieberg Date: 8/15/24

AUTHORIZATION TO CONSTRUCT by: D. Wieberg Date: 3/4/24

Existing System Inspected by: Date:

STATE OF NORTH CAROLINA
COUNTY of Iredell-Statesville 2024

CONTRACT FOR INSPECTIONS OF ON-SITE WASTEWATER SYSTEMS TYPE II, III, IV and V

This Contract is entered into this 13th day of August, 2024 by and between TCW Wastewater Management, Inc., a North Carolina Corporation of Mecklenburg County, North Carolina (hereinafter "TCW") and **BYSNA INVESTMENT 1, LLC**

Preamble

TCW is contracting with The Owner to provide inspection services as described on Attachment A for the fees or charges also shown in Attachment A.

The Owner owns or controls the property upon which a ground absorption sewage treatment system ("System") is installed, such System being designated as a type II, III, IV or V system under the Rules for Sanitary Sewage Collection. Treatment and Disposal found at 15A N.C. Admin. Code 18E. 1301 et seq.; and 15A N.C. Admin. Code 18E.1301 requires that a condition of the Operation Permit for certain systems be that a properly executed inspection contract between the System Owner and a management entity shall be in effect for as long as the System is in use. TCW is a management entity which employees certified operators of a type authorized by 15A N.C. Admin. Code 18E.1301 to manage and inspect type II, III, IV, and V systems.

In consideration of the premises and of the mutual covenants and promises contained in this Agreement, it is hereby agreed by and between the Owner and TCW as stipulated below.

Conditions of the Contract

A. TCW, in consideration of the payment by the Owner as set out in the schedule of services and charges in Attachment A, incorporated herein, agrees:

1) To provide the services set out in Attachment A according to the minimum schedule of inspections/services required by regulations for the lots or parcels set out in Attachment B.

2) To report results of the inspections to the local environmental regulatory agency having jurisdiction as required by applicable laws or regulations.

3) If inspections indicate the need for System repairs:

   a) to notify the local environmental regulatory agency within 48 hours.
   b) to give notice to the "Owner" of needed repairs, and, if the necessary repairs are outside the scope of the routine maintenance described in Attachment A, then The Owner may request TCW to provide an estimate. At the authorization of The Owner TCW will perform the necessary repairs at TCW's then prevailing charges for services and materials.

4) If TCW's services are terminated, TCW will notify the local environmental regulatory agency within 48 hours.

B. The Owner, in consideration of the services performed, agrees:

1) To pay TCW for its services according to the schedule of charges as set out in Attachment A.

2) Within 30 days of receipt of notice of repairs under A (3) above, the Owner(s) must provide proof that repairs have been performed by a licensed or qualified entity and the System is functioning properly or request and authorize TCW to complete the needed repairs.

3) To notify TCW promptly of any emergency or malfunction known to it which may violate environmental, health, or other laws and regulations, and to authorize immediate repair as necessary to restore the System to proper function and operation.

4) To use reasonable efforts to provide and to maintain at all times, such access to the Systems as is reasonably necessary for TCW to comply with its obligations under this Agreement.

C. **Terms of the Agreement**

1) This Agreement shall be effective for one year from the date of this contract, and will be automatically renewed from year-to-year thereafter, unless written notice of termination and non-renewal is given to the other party not less than 60 days prior to the end of the then current annual contract year.

2) The real property to be serviced under this contract is listed on Attachment B.

3) This Agreement automatically terminates if the Operation Permit for the system is revoked and all appeals of the revocation are exhausted or time for making an appeal has passed.

4) The parties may terminate at the end of the then current term by consent of each party or by not less than 60 days written notice to the other party prior to the end of the then current contract year, and not less than 30 days written notice to the local environmental regulatory agency.

5) This Agreement may be terminated for cause for breach which remains unremedied after 15 days written notice to the defaulting party.

D. **Limited Warranty**

TCW'S SOLE DUTIES AND RESPONSIBILITIES UNDER THIS AGREEMENT IS TO PROVIDE INSPECTION AND ROUTINE MAINTENANCE ONLY AS SPECIFIED IN THIS AGREEMENT. INSPECTIONS WILL COMPLY WITH APPLICABLE CODES, LAWS, AND REGULATIONS IN FORCE AT THE TIME OF THE INSPECTION AND REPORT. WORK AND MATERIALS USED IN REPAIRS ARE WARRANTED ONLY TO BE OF GOOD WORKMANSHIP, FREE OF DEFECTS, AND CONFORM TO THE SYSTEMS SPECIFICATIONS AND EQUAL TO THE ORIGINAL PARTS AND EQUIPMENT. THE OWNER'S SOLE REMEDY UNDER THIS EXPRESS WARRANTY IS REPAIR OR REPLACEMENT AND CONSEQUENTIAL DAMAGE OR DAMAGES FOR DELAY ARE LIMITED TO TOTAL SUMS PAID TCW UNDER THIS AGREEMENT FOR THE PARTICULAR LOT OR PARCEL FOR THE THEN CURRENT YEAR. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, ARE EXPRESSLY AND SPECIFICALLY EXCLUDED. REPAIRS, REPLACEMENTS, ADDITIONS AND CHANGES BY OTHERS TO THE SYSTEMS COVERED BY THIS AGREEMENT WITHOUT PRIOR NOTICE TO TCW OR ACCEPTANCE OF THE WORK BY TCW DURING THE TERM OF THIS AGREEMENT VOIDS ANY WARRANTY GRANTED HEREIN AS TO TCW.

E. **Miscellaneous**

1) Transfer of rights, responsibilities, and duties under this Agreement by any party shall be valid only on written notice and consent signed by all parties, which consent shall not be unreasonably or arbitrarily withheld.

2) TCW may perform its duties and responsibilities by subcontract but TCW will remain directly liable and responsible to the Owner under the terms of this Agreement.

3) Waiver of default or a breach of the Agreement by any party shall not operate nor be construed as a waiver of further or subsequent defaults or breach of this Agreement. Failure to take action in any default or breach does not bear action on such default at any time subsequent to such breach or default.

4) This Agreement constitutes the entire agreement of the parties, incorporating, and superseding all prior representations and negotiations and may not be changed or amended except in writing signed by the parties. The Agreement shall be interpreted under North Carolina law. Any part of the Agreement declared void, illegal, or unenforceable will not affect other provisions of the Agreement.

5) Disputes arising under this Agreement shall be determined by any method of Alternative Dispute Resolution the parties choose, including but not limited to, mediation or arbitration, under the Uniform Arbitration Act of North Carolina or its equivalent, or such means or methods as the parties agree to in writing.

6) Notices are deemed delivered if delivered in person; by certified or registered mail; by courier; or delivery service, if properly receipted, charges and postage prepaid, as follows:

Owner: **BYSNA INVESTMENT 1, LLC**
125 W Morehouse Ave
Mooresville, NC 28117

Operator:
TCW Wastewater Management, Inc.
5600 Lakeview Rd
Charlotte, NC 28269

Environmental Regulatory Agency:

Iredell Dept of Environmental Health

610 East Center Ave

Mooresville, NC 28115

A party may change its address my giving notice in the manner provided above.

Each party has executed this Agreement with full power, authority, and legal right to enter into; to bind itself to the rights, duties and responsibilities under this Agreement, which is binding on the parties, their successors and assigns, heirs and personal representatives, on the date first above written.

WITNESS:

OWNER: for BYSNA INVESTMENT 1, LLC

Bachar Abou-Mayaleh

TCW Wastewater Management, Inc.

BY: Lee Boyd

EXHIBIT A
TYPE II, III, IV

MONITORING & INSPECTION PLAN

1. **COST:** **INITIAL CONTRACT YEAR:**

$ 350.00	**(2 required inspection)**
$ N/A	**(0 required lab)**
$ 350.00	**Total Initial Year**

RENEWAL YEARS:

$ TBD	**(2 required inspection)**
$ N/A	**(0 required lab)**
$ TBD	**Total Renewal Years**

a. The Owner shall pay to TCW the aforementioned sums for each parcel listed on Attachment B. The initial annual fees are payable upon the execution of the contract. Annual billings will be made thereafter and payable within 30 days of billing. The annual billings will be made on the anniversary dates. The annual renewal fees may increase no more than 5% per year. The Owner shall pay to TCW his normal and customary fees for any authorized work performed on the System as a result of non-scheduled service or maintenance calls. These fees are due and payable within 30 days of billing. Payments due to TCW, and unpaid by the Owner after 30 days, shall be assessed late payment fee of 15% per month, accruing monthly on the unpaid balance.

2. **PERFORMANCE DUTIES:**

- Inspections and services that meet state requirements, i.e., inspections of System using an itemized check list, monitoring "septic tanks" to insure proper operation, and make adjustments of imbalances to systems through the distribution devices.
- Inspection report copies are sent to the environmental regulatory agency (if applicable) and homeowner
- Emergency service calls at an additional charge.
- 24-hour availability at an additional charge.
- The Owner will be advised of any repairs needed and estimated cost or repairs. Repairs will not be made without Owner authorization.
- The Owner will be advised when pumping is recommended

Bacteria Additive Option – Additional $60 per year:

- The addition of a bacterial product into the individual septic tank as needed to maintain the proper level of bacteria.

EXHIBIT B

1. PHYSICAL ADDRESS OF SYSTEM(S):

150 Meadow Glen Dr
Troutman, NC 28166

Meadow Glen Lot 121

b. _____
_____
_____
_____

c. _____
_____
_____
_____

d. _____
_____
_____
_____

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 873-5305 x3456 Mooresville Office (704) 660-3625

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

PERMIT # OSWP 2024-48004

PIN # 4730 -- 58 -- 0671

APPLICANT/OWNER: Soil & Forestry Services LLC APPLICANT ADDRESS: 126 3rd Creek Rd, Statesville, NC 28677

SITE ADDRESS: 150 Meadow Glen Drive, Troutman, NC 28166 PHONE: 704-881-6264 ALT. PHONE:

SITE DIRECTIONS: N Perth -> L State Park -> R Meadow Glen - lot on R at corner or Meadow Glen & Valley Glen SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: Meadow Glen SECTION: 4 LOT # 121 LOT AREA: 0.48 DESIGN FLOW: 360 L.T.A.R.(Initial): 0.3 L.T.A.R (Repair): 0.3

Septic Tank 1000 (gal) STB Date

Pump Tank 1000 (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 2 Linear Ft: 50

Trench Width 24 *Max. Trench Depth(Initial) 30 *Max. Trench Depth(Repair) 30 Gravel Depth n/a

* Measured on the downhill side of the trench

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

System Description: LPVPPBPS (existing + new footage)

Repair System Description: LPPVPBPS

Maintenance Agreement Required: ☑ YES ☐ NO

☐ GRAVITY ☑ PRESSURE

Effluent Standard: ☑ DSE ☐ HSE ☐ TS-I ☐ TS-II ☐ RCW ☐ NSF/ANSI 40

Usable Depth to LC (Initial): 50 Usable Depth to LC (Repair): 50 *Limiting Condition*

☑ Residence No. Bedrooms 3

☐ Business No. Persons 6

☐ Other No. Employees

☐ Slab ☑ Crawl Space

☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply

☐ Private

☑ Public

☐ Community

Comments / Conditions: This permit is a redraw to modify the drainfield to accomodate the driveway. Removing one line, shortening two others. Add to the bottom line & installing an alternate down the hill from the existing system.

200' Total Required after changes

INITIAL SITE SKETCH

Improvement permit issued pursuant to: G.S. 130A-335(a2), (a3) & (a4) using signed & sealed LLS/LG Evaluation attached, from:

Ashley Rollans

LSS# 1231

Construction authorization issued pursuant to: G.S. 130A-335(a2) & (a5)

AOWE# 10027E

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.

Tanks top 2 lines
DW 11/20/23

Checked Bottom 3 lines, Supply Line, CVB
MW 11/28/23

See Notes on As Built

SH & PM New lines checked 4/3/24

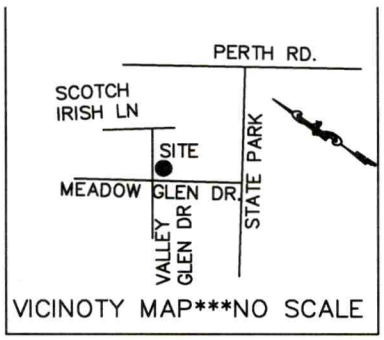
Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

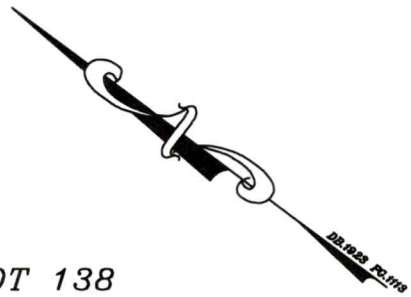
☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☑ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☑ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Online signature Date: Installed by: Galle Grading

IMPROVEMENT PERMIT by: D. Wisberg Date: 3/4/24 OPERATION PERMIT by: Date:

AUTHORIZATION TO CONSTRUCT by: D. Wisberg Date: 3/4/24 Existing System Inspected by: Date:





LOT 138
ZACHARY A. &
ALLISON BEECH
26118/2442

LOT 137
BRIAN W. &
JENNIFER R. CONROY
2296/1222

LOT 122
BSYNA INVESTMEN
2, LLC
1923/1113

LOT 121
0.48 AC.

VALLEY GLEN DR
(50' PUB R/W)

MEADOW GLEN DR
(60' PUB R/W)

R/W

#5 REBAR

N38°17'50"W
105.77

N38°17'50"W
34.23

30" CMP

DRAINAGE EASEMENT

25' REAR

25' SIDE STREET

15' SIDE

S51°42'10"W
130.00

150.02

14.0
DECK
10.0

32.0
HOUSE
BOX
PER HOUSE PLANS
30.0

2.3
20.0
GARAGE
24.0

3.7
20.0
32.0
40' FRONT

REMOVE 45'

NEW 50' 18" HDPE

DRAINAGE EASEMENT

18" HDPE

ST | PT
9 B 16.9' 52'
8 Y 14.5' 63'
7 B 12.3' 40'
6 R 10.3' 42'
5 P 8.2' 44' (24')
4 B 6.9' 45'
3 Y 5.7' 46'
2 O 4.2' 48'

B3
B2
B1

30' 37'

10ft

CVB

C1

#5 REBAR

#5 REBAR

#5 REBAR

#5 REBAR

#5 REBAR

R/W

(TIE ONLY)
N38°19'43"W
104.98

#4 REB

120.00
N38°17'50"W

TBM

As Built

NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	20.00'	31.46'	S 06°26'14" W	28.31'

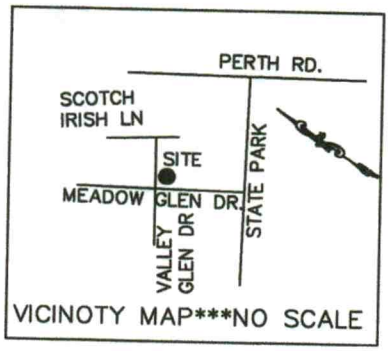
LEGEND

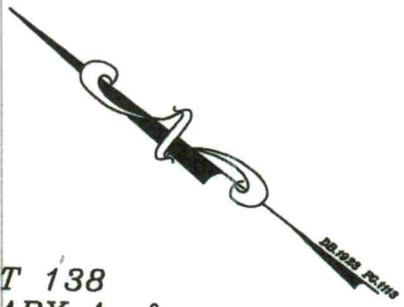
P.P. = POWER PO
POWER TRANS.
E.I.P. = EXISTING IRON FO
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY

0' 15' 30' 60'

SCALE IN FEET

UPDATED: 1\17\22 (ADDED DIMN OF HOUSE)





LOT 138
ZACHARY A. &
ALLISON BEECH
26118/2442

LOT 137
BRIAN W. &
JENNIFER R. CONROY
2296/1222

R/W

#5 REBAR

N38°17'50"W
105.77

30" CMP

#5 REBAR

N38°17'50"W
34.23

#5 REBAR

DRAINAGE EASEMENT

25' REAR

25' SIDE STREET

15' SIDE

LOT 121
0.48 AC.

New Design
3/4/24

ST | PT

11 P 16.9' 41'

10 B 14.5' 41'

9 □ 12.3' 41'

8 R 10.3' 40' INSTALL

7 P 8.2' 26' (36') EX.
ADD 10'

6 B 6.9' 42' EXISTING

5 Y 5.7' 47' (41') EX.

4 □ 4.2' 47' (41') EX.

R 3.1' EX. 39'

LOT 122
BSYNA INVESTMENT
2, LLC
1923/1113

VALLEY GLEN DR
(50' PUB R/W)

S51°42'10"W
130.00

14.0
DECK
10.0

32.0
HOUSE
BOX
PER HOUSE PLANS
30.0
40' FRONT

2.3
20.0
GARAGE
24.0
20.0
3.7
32.0

NEW 50' 18" HDPE

REMOVE 45'

DRAINAGE EASEMENT

18" HDPE

15' 3 Y 5.6' 26'

2 □ 4.4' 26'

1 R 3.3' 27'

REMOVE 6' ON L4 & L5

DRIVE

ABANDON

EXISTING CVB

LARGE TREE

(BASE BEARING)
N51°42'10"E
150.02

#5 REBAR

C1

#5 REBAR

#5 REBAR

R/W

(TIE ONLY)
N38°19'43"W
104.98

#4 REBAR

TBM

120.00
N38°17'50"W

MEADOW GLEN DR
(60' PUB R/W)

NOTES

1) THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHTS OF WAY OF RECORD.
2) ACREAGE COMPUTED BY THE COORDINATE METHOD.
3) UNDERGROUND POWER
4) NO GRID MONUMENT FOUND WITHIN 2000 FEET.

CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	20.00'	31.46'	S 06°26'14" W	28.31'

0' 15' 30' 60'
SCALE IN FEET

LEGEND
P.P. = POWER POLE
□ = POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY

Permit/File #: OSWP-2024-48004

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK BENTON • Deputy Secretary for Health
SUSAN KANSAGRA • Assistant Secretary for Public Health
Division of Public Health

Submittal Includes; [X] (a2) Improvement Permit [X] (a2) Construction Authorization [ ] Fee $

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)

County: Iredell
PIN/Lot Identifier: 4730580671
Issued To: Bachar Abou Mayaleh // BYSNA Investments 2 LLC
Property Location: 150 Meadow Glen Dr, Troutman
Subdivision (if applicable): Meadow Glen Lot#: 121 Block: Section:
LSS Report Provided: Yes [X] No [ ]
If yes, name and license number of LSS: Ashley Rollan #1231
New [X] Expansion [ ] System Relocation [ ] Change of Use [ ]
Facility Type: 3 bedroom house (Existing)
Number of bedrooms: 3 Number of Occupants: 6 Other:
Design Wastewater Strength: [X] Domestic [ ] High Strength [ ] Industrial Process Wastewater
Proposed Design Daily Flow: 360 GPD Proposed LTAR (Initial): 0.3 Proposed LTAR (Repair): 0.3
Proposed Wastewater System Type*: IVa (VPPBPS 8') LPP (Initial) Pump Required: [X] Yes [ ] No [ ] May be required
Proposed Wastewater System Type*: IVa (VPPBPS 6') LPP (Repair) Pump Required: [X] Yes [ ] No [ ] May be required
Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII
Effluent Standard: [X] DSE [ ] HSE [ ] NSF/ANSI 40 [ ] TS-I [ ] TS-II [ ] RCW
Saprolite System (Initial): [ ] Yes [ ] No Saprolite System (Repair): [ ] Yes [ ] No
Fill System (Initial): [ ] Yes [X] No If yes, specify: [ ] New [ ] Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Fill System (Repair): [ ] Yes [X] No If yes, specify: [ ] New [ ] Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Usable Depth to LC (Initial)*: 50 Usable Depth to LC (Repair)*: 50 * Limiting Condition
Max. Trench Depth (Initial)ǂ: 30 Max. Trench Depth (Repair)ǂ: 30 ǂ Measured on the downhill side of the trench
Artificial Drainage Required: [ ] Yes [X] No If yes, please specify details:
Type of Water Supply: [ ] Private well [ ] Public well [ ] Shared well [X] Municipal Supply [ ] Spring [ ] Other:
Drainfield location meets requirements of Rule .0508: Yes [X] No [ ] Drainfield location meets requirements of Rule .0601: Yes [X] No [ ]
Permit valid for: [X] Five years [site plan submitted pursuant to GS 130A-334(13a)] [ ] No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Proposed septic areas are to remain undisturbed (no grading, no utilities installation)
Proposed septic areas should be fenced/protected from disturbance (vehicle traffic, debris, etc...)
*Water line must be 10' from System
See Design for any additional details

Licensed Soil Scientist Print Name: Samuel Ashley Rollans
Licensed Soil Scientist Signature: Samuel A Rollans Date: 2/19/2024

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: OSWP-2024-48004

This Section for Local Health Department Use Only

Initial submittal received: 2/29/24 (*Date*) by ONLINE (*Initials*)

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

_____

_____

Copies of this were sent to the LSS and the Applicant on _____ (*Date*)

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: D. Wisberg Date: 3/4/24

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. *This permit is subject to revocation if the site plan, plat, or the intended use changes.* The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of 15A NCAC 18E and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: 3/4/29

See attached site sketch

Permit/File #: OSWP-2024-48004

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County: Iredell Pre-Construction Conference Required: [ ] Yes [X] No

PIN/Lot Identifier: 4730580671

Issued To: Bachar Abou Mayaleh // BYSNA Investments 2 LLC

Property Location: 150 Meadow Glen Dr, Troutman

AOWE/PE Plans/Evaluations Provided: Yes [X] No [ ] If yes, name and license number of AOWE/PE: Ashley Rollans #10027E

Facility Type: 3 bedroom house

Number of bedrooms: 3 Number of Occupants: 6 Other:

[X] New [ ] Expansion [ ] Repair [ ] System Relocation [ ] Change of Use

Basement? [ ] Yes [X] No Basement Fixtures? [ ] Yes [ ] No

Crawl Space? [X] Yes [ ] No Slab Foundation? [ ] Yes [X] No

Type of Wastewater System* IVa (VPPBPS 8') LPP (Initial) IVa (VPPBPS 6') LPP (Repair)

**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*

Design Daily Flow: 360 GPD Wastewater Strength: [X] Domestic [ ] High Strength [ ] Industrial Process WW

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? [ ] Yes [X] No
(if yes, please provide engineering documentation)

Effluent Standard: [X] DSE [ ] HSE [ ] NSF/ANSI 40 [ ] TS-I [ ] TS-II [ ] RCW

Type of Water Supply: [ ] Private well [ ] Public well [ ] Shared well [X] Municipal Supply [ ] Spring [ ] Other:

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 200 feet Trench/Bed Spacing: 8 feet on center

Trench/Bed Width: 24 inches LTAR: 0.3 gpd/ft² Usable Depth to LC (Initial)*: 50 *Limiting condition

Soil Cover: 8 inches Slope Adjusted Maximum Trench/Bed Depth#: 30 inches *# Measured on the downhill side of the trench*

Pump Tank Size (if applicable): 1000 galllons Requires more than 1 pump? [ ] Yes [X] No

Pump Requirements: 4.875 ft. TDH vs. 35.6 GPM Grease Trap Size (if applicable): gallons

Distribution Method: [ ] Serial [ ] D-Box or Parallel [ ] Pressure manifold(s) [X] LPP [ ] Other

Artificial Drainage Required: Yes [ ] No [X] If yes, please specify details:

Legal Agreements *(If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)*

Multi-party Agreement Required [.0204(g)]: [ ] Yes [X] No Declaration of Restrictive Covenants: [ ] Yes [X] No

Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: [ ] Yes [X] No

Management Entity Required: Yes [ ] No [X] Minimum O&M Requirements:

Permit conditions:

Proposed septic areas are to remain undisturbed (no grading, no utilities installation)

Proposed septic areas should be fenced/protected from disturbance (vehicle traffic, debris, etc...)

* water line must be 10' from system

See Design for any additional details

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. *This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes.* The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

AOWE/PE Print name: Samuel Ashley Rollans Expiration Date: 2/19/2029

AOWE/PE Signature: Samuel Ashley Rollans Date: 2/19/2024

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch

NC ON-SITE WASTEWATER EVALUATOR Certification Number 10027E

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: OSWP-2024-48004

This Section for Local Health Department Use Only

Initial submittal received: 2/29/24 (*Date*) by ONLINE (*Initials*)

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This Construction Authorization is determined to be:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing: _____

_____

Copies of this were sent to the AOWE/PE and the Applicant on _____ (*Date*)

State Authorized Agent: _____ Date: _____

☒ Complete

State Authorized Agent: D. Wieberg Date of Issuance: 3/4/24

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: 3/4/29

See attached site sketch

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 21-0103
February 23rd, 2024

Bachar Abou-Mayaleh
Attn: **Bachar Abou-Mayaleh**
Email: bashar.am6194@gmail.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence at 150 Meadow Glenn Dr (LOT 121 Meadow Glen), Troutman, NC 28166, PIN # (4730580671), Iredell County.

Mr. Abou- Mayaleh:

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 open. Topography within the evaluated area was gentle to moderate slope near the existing house and gentle slope near the proposed drainfield area. Property lines and corners were marked at the time of the evaluation by DAS & Associates. The Surveyor provided an Autocad File of the survey as a basemap. There is an existing VPPBPS system installed on the property. The proposed modification to the septic system (layout) was located via measuring tape/GPS and used to produce the attached *Site Plan*. This modification request is to accommodate a driveway. The house envelope was located via Survey. The attached Site Plan provided has house plot, setbacks and lot size.

Methodology

We evaluated soil areas through the use of auger borings. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with four applicable auger hole locations on the property flagged and located via GPS. All of the borings are located in or adjacent to the proposed septic layout. Soil suitability was determined by referencing 15A NCAC 18E "Wastewater Treatment & Dispersal Systems". *Soil & Site Evaluation Forms* were utilized to record the soil morphological data for each boring. The existing house envelope is shown on the Site Plan. 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.

150 Meadow Glen Dr Lot 121 (*See Attached Design*)
The septic layout for this lot (6' & 8' centers) yielded a total of 402 linear feet of line. The primary system is proposed as 200 linear feet of VPPBPS drainfield with low pressure distribution. Trench depth (Low Side) is specified at 30 inches. The repair system is proposed as 202 linear feet of VPPBPS drainfield with low pressure distribution. Trench depth (Low Side) is specified at 30 inches. **The existing VPPBPS system will require some lines to be shortened, lengthened and abandoned. Please refer to the Design/Site Plan for those details. The water meter must be relocated and water line installed 10' from any part of the system.**

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 18E .0203 and be accompanied by a signed and dated statement from the applicant (owner or owner's legal representative) that reads as follows:

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

Owner

Date

Print Name Bachar Abou-Mayaleh 02/27/2024

Signature Bachar Abou-Mayaleh

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 G.S. 130A-335(a2)."

Disclaimer
This report reflects the findings of S&FS, PA. *This LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."* Any site modifications that impact the proposed septic areas at 150 Meadow Glen Dr (Lot 121) 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
STATE OF NORTH CAROLINA

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 System with Low Pressure Distribution for a 3 bedroom single family residence at 150 Meadow Glen Dr., Troutman, (PIN# 4730580671), Iredell County, NC.

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---------- ONLINE

Agent Authorization---------- ONLINE

IP & CA Forms---------- 9-10

LICENSED SOIL SCIENTIST
SAMUEL A. ROLLAND
1231
STATE OF NORTH CAROLINA

February 19, 2024
Project #: 21-0103
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 PPBPS installation with low pressure distribution.
- Repair is specified as a PPBPS installation with low pressure distribution.
- **Existing trenches are to be abandoned, extended or shortened. Read carefully.**
- **Tanks, Central Valve Box and control panel are already installed.**

LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant:	Bachar Abou Mayaleh
Current Address:	125 W. Morehouse Ave. Mooresville, NC 28117
Phone:	704.763.8045
County:	Iredell
Location:	150 Meadow Glen Dr. Troutman, NC 28166
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360 gpd
System Flow:	19.27 gpm

Design Specifications

Drainfield Size:	202
Loading Rate (gpd/ft.^{2}):	0.3
Depth of Gravel in Trench:	NA (PPBPS)
Gravel Size:	NA (PPBPS)
Max Trench Depth (LOW SIDE):	30 in., Repair 30 in. Trench Depth
Trench Width:	24 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	145
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	25.23
Dosing Volume:	169.20
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:	1.84
Elevation Head:	21.00
Total Dynamic Head:	28.57
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

150 Meadow Glen Dr.

LP PPBPS

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	400
TOTAL LATERAL LENGTH:	200
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	200
SUPPLY LINE LENGTH:	161
TOTAL DYNAMIC HEAD:	28.57
MANIFOLD SIZE:	N/A
DOSING VOLUME:	169.20
PUMP TANK DRAW DOWN*:	8.1
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 - 150 Meadow Glen Dr-Lot 121

Project #: 21-0103

LAYOUT FOR 3 BEDROOM HOME

February 19, 2024

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM	(RIGHT FRONT)	6.1	106.1		100.00		
INSTR. 1							
HOUSE CNR	(RIGHT REAR)				93.80		
P. TANK					89.20		
1	RED			1.30	104.80	27	27
2	ORANGE			4.00	102.10	26	26
3	YELLOW			5.10	101.00	26	26
	RED	EXISTING	(ABANDON)	3.10	103.00	39	39
4	***ORANGE***	***EXISTING***	***minus 5'***	***4.20***	101.90	***47***	***41***
5	***YELLOW***	***EXISTING***	***minus 5'***	***5.70***	100.40	***47***	***41***
6	***BLUE***	***EXISTING***	***no change***	***6.90***	99.20	***42***	***42***
7	***PINK***	***EXISTING***	***add 10'***	***8.20***	97.90	***26***	***36***
8	***RED***		***install new***	***10.3***	95.80	***40***	***40***
9	ORANGE			12.3	93.80	41	41
10	BLUE			14.5	91.60	41	41
11	PINK			16.9	89.20	41	41
					Total	**443**	**441**

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION	(LOW SIDE) TRENCH DEPTH
**** System***	***200***	***0.300***	MOD. CONV.	***0.300***	**PPBPS**	**LOW PRESSURE**	30"
Repair	202	0.300	MOD. CONV.	0.300	PPBPS	LOW PRESSURE	30"

Notes:

**All measures in feet

LP PPBPS TAPSHEET -150 Meadow Glen Dr.- Lot 121

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
4	ORANGE	101.90	42	0.156	0.41	84	10
5	YELLOW	100.40	42	0.156	0.41	84	10
6	BLUE	99.20	42	0.156	0.41	84	10
7	PINK	97.90	36	0.156	0.41	72	8
8	RED	95.80	40	0.156	0.41	80	9
	total	feet =	202	gal/min =	19.27		47

Des. Flow	360
Pump Run=	8.78
soil LTAR	0.3
LTAR +5%	0.315
LTAR with mod.	0.6
LTAR with mod.. + 5%	0.63

.156 equals 5/32 inch hole

CALCULATIONS

Location	150 Meadow Glen Dr. Troutman, NC 28166
Project Number	20-0103
Lot No:	121
No. of Bedrooms	3
Design Flow	360 $^{gal}/_{day}$
LTAR	0.3 $^{gal}/_{ft^2\ day}$
HPPBPS? (YES OR NO)	YES
Supply Line Length	145 ft.
Supply Line Volume	25.23 gal.
Required Feet of Line	200 ft.
Amount of Line from Layout	200 ft.
Gallons per Minute	19.27 $^{gal}/_{min}$
Required Septic Tank Capacity	1000 gal.
Pump Tank Capacity	1000 gal.
Panel Volume	3.6 gal.
# of Panels	47
Dosing Volume	169.20 gal.

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

Tank Draw Down	8.1 *Generic Draw Down of 21 gal.per in.*
Pump Run Time	8.78 minutes
Elevation Head	21 ft.
Pressure Head	2 ft.
Friction Factor	1.27 ft./100 ft. *(From the interpolater.)*
Friction Head	1.84 ft.
Total Dynamic Head (+15%)	28.57 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

Sheet 1 of 1
PROPERTY ID #: 4930806771
COUNTY: Iredell

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

OWNER: DPG Properties
ADDRESS: 7679 Lynnwood Lane Sherrills Ford NC 28673
PROPOSED FACILITY: 3bc
PROPOSED DESIGN FLOW (.1949): 360gpd
LOCATION OF SITE: 160 Meadow Glen Dr., Troutman NC 28166 Lot 121
WATER SUPPLY: ☐ Private ☑ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut
APPLICATION DATE
DATE EVALUATED: 11/30/21
PROPERTY SIZE: 0.18 AC
PROPERTY RECORDED: Yes
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/17%	0-7	RBSCL wfsbk	Fr SS SP SEXP		50	—	—	PS 0.3
		7-36	BRC wmsbk	" "					
		36-50	RBCL wfsbk	Fr SS SP					
B 2	L/20%	0-10	RBSCL wfsbk	Fr SS SP		50	—	—	PS 0.3-.325
		10-28	BRC wfsbk	Fr SS SP	C to Many Quartz Veins				
		28-50	RBSCL wfsbk	Fr SS SP					
B 3	L/16%	0-10	RBSCL wfsbk	Fr SS SP		50	—	—	PS 0.3
		10-47	BC wfsbk/Abk	Fr SS SP	Few SHP Inch.				
		47-50	RBCL wfsbk	Fr SS SP					
B 4	L/16%	0-7	Fill			50	—	—	PS 0.3
		7-12	RBCL wfsbk	Fr SS SP					
		12-38	BRC wmsbk	Fr SS SP					
		38-50	RBCL wmsbk	Fr SS SP	Few SAP				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	9C	PS
System Type(s)	PPBPS/Low Pressure	PPBPS/Low Pressure
Site LTAR	0.3	0.3

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

LICENSED SOIL SCIENTIST — Samuel Ashley Polans — 1231 — STATE OF NORTH CAROLINA

COMMENTS:

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

ROY COOPER • Governor
KODY H. KINSLEY • Secretary
MARK BENTON • Deputy Secretary for Health
SUSAN KANSAGRA • Assistant Secretary for Public Health
Division of Public Health

Application for Services

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submited in accordance with G.S. 130A-335(a2), (a3), and (a5).
[hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Applying for:

[X] (a2) Improvement Permit [X] (a2) Construction Authorization [ ] (a2) Repair/Construction Authorization

If applying for a Construction Authorization, please indicate desired system type(s):

[X] Accepted [ ] Conventional [ ] Innovative [X] Other PPBPS w/LPP [ ] Any

[X] New Construction [ ] Expansion [ ] System Relocation [ ] Change of Use [ ] Repair

[X] 5 Year Expiration Requested (site plan provided) [ ] Non-Expiring Permit Requested (plat provided, as defined in G.S. 130A-334(7a)

Requesting DHHS review? (systems >3000 GPD or IPWW) [ ] Yes [X] No

Applicant:	Ashley Rollans // Soil & Forestry Services, PA"
Mailing Address:	126- A Third Creek Rd
City:	Statesville
State:	North Carolina
Zip:	28677
Phone #:	980-223-8352
Email:	sfsstatesvillenc@gmail.com

Owner:	Bachar Abou Mayaleh // BYSNA Investments 2 LLC
Mailing Address:	125 W. Morehouse Ave.
City:	Mooresville
State:	North Carolina
Zip:	28117
Phone #:	704-763-8045
Email:	bashar.am6194@gmail.com

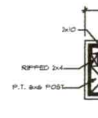
If the answer to any of the following questions is "yes", applicant must attach supporting documentation.

[ ] Yes	[X] No	Does the site contain any jurisdictional wetlands?
[ ] Yes	[X] No	Is any wastewater going to be generated on the site other than domestic sewage?
[ ] Yes	[X] No	Is the site subject to approval by any other public agency?
[ ] Yes	[X] No	Are there any easements or right of ways on this property?

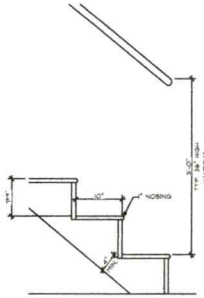
I understand that the documentation and fees, as required in G.S. 130A-335(a2), (a3), (a5), and (a6), attached to this application are to be used to issue an Improvement Permit and/or Construction Authorization pursuant to G.S. 130A-335(a2),(a3), and (a5). I understand that authorized county and state officials are granted right of entry to the property indicated on this application to conduct necessary inspections to determine compliance with applicable laws and rules. ***I understand that if the information in the application for an Improvements Permit and/or Construction Authorization is falsified, changed, or the site is altered, then the Improvement Permit and Construction Authorization shall become invalid.***

Applicant Signature: [signature] Date: 2/19/2024

Owner's Signature: Bachar Abou-Mayaleh Date: 02/27/2024



A TYP. BOX COLUMN DETAIL
SCALE: 1" = 1'-0"



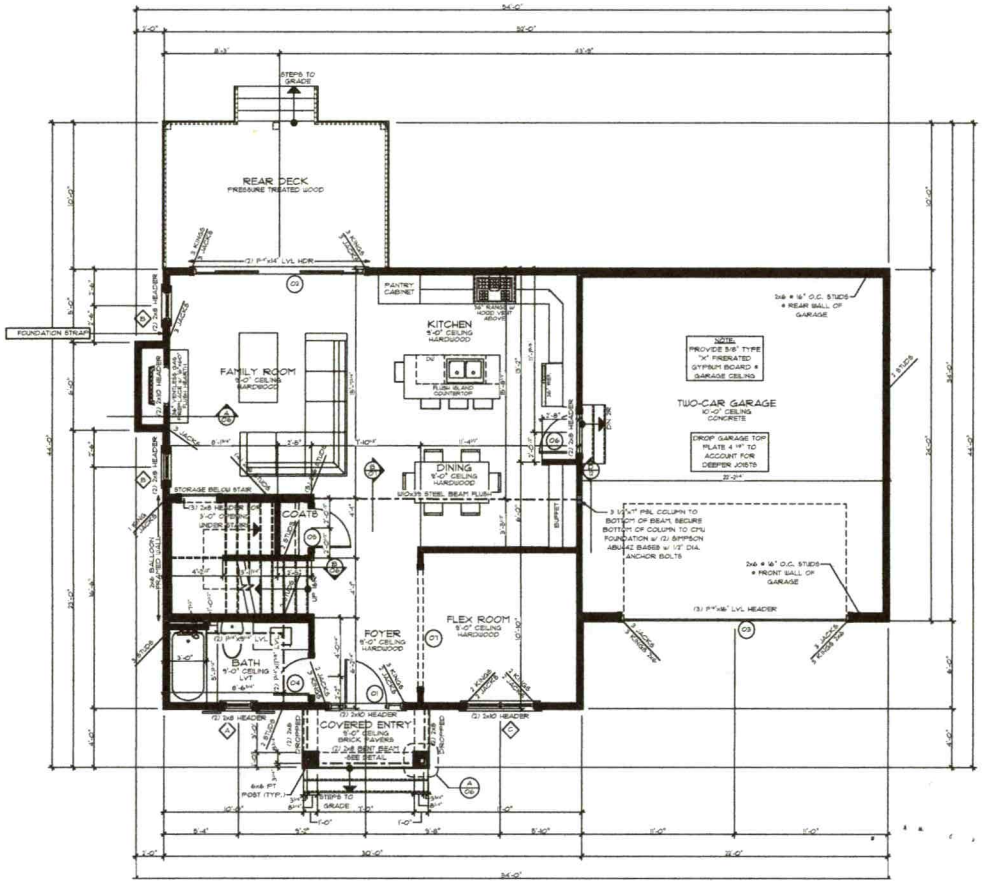
STAIR SPECS:

@ RISERS = 7 5/8" EACH
@ TREADS = 10" EACH
w/ 1" NOSING
TOTAL RISE: 10' - 1 3/4"

NOTE:
VERIFY ACTUAL CONDITIONS + FLOOR FINISH MATERIALS PRIOR TO STAIR FABRICATION.

NOTE:
GUARD RAILS + HANDRAILS SHALL BE IN COMPLIANCE w/ 2018 RESIDENTIAL CODE

B FIRST FLOOR TO SECOND FLOOR STAIR
SCALE: 1" = 1'-0"



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

6x6 POST — 6x6 PT POST WITH TWO SIMPSON LCE4 CAPS AT CORNER POSTS AND TWO SIMPSON ACE CAPS AT INTERMEDIATE POSTS (BLOCK AS NEEDED). IF WOOD FRAMING BELOW, SECURE WITH SAME CAPS AT BOTTOM, IF CONC. OR MASONRY BELOW, SECURE WITH SIMPSON ABU66Z BASE WITH 1/2" DIA.x6" TITEN HD ANCHOR SCREW OR EQUAL.

- VERIFY ROUGH OPENING REQUIREMENTS WITH WINDOW MANUFACTURER

FIRST FLOOR WINDOW SCHEDULE

ID	QTY	SIZE W	SIZE HT	NOTES
A	1	2'-0"	4'-6"	SINGLE DOUBLE HUNG WINDOW UNIT
B	2	2'-0"	5'-0"	SINGLE DOUBLE HUNG WINDOW UNIT
C	1	5'-0"	5'-0"	TWIN DOUBLE HUNG WINDOW UNIT

- VERIFY ROUGH OPENING REQUIREMENTS WITH DOOR MANUFACTURER

FIRST FLOOR DOOR SCHEDULE

ID	QTY	DOOR W	DOOR HT	DOOR GLZ	NOTES
01	1	5'-0"	6'-8"	TEMP.	SINGLE EXTERIOR 2/3 GLASS w/ ONE PANEL ENTRY DOOR w/ 14" 2/3 GLASS w/ ONE PANEL EACH SIDE - TEMPERED
02	1	5'-0"	6'-8"	TEMP.	QUAD 36" EXTERIOR SLIDING GLASS DOOR UNIT - TEMPERED
03	1	16'-0"	8'-0"		SINGLE EXTERIOR OVERHEAD GARAGE DOOR UNIT
04	1	2'-6"	6'-8"		SINGLE INTERIOR TWO PANEL DOOR UNIT
05	1	2'-6"	6'-8"		SINGLE INTERIOR TWO PANEL DOOR UNIT
06	1	2'-6"	6'-8"		SINGLE INTERIOR INSULATED TWO PANEL DOOR w/ 30MIN. FIRE RATING w/ WEATHER STRIPPING & THRESHOLD
07	1	8'-0"	6'-8"		SINGLE INTERIOR CASED OPENING

SQUARE FOOTAGE
ALL FOOTAGE CALCULATED TO STUD

1. FIRST FLOOR HEATED	912
2. SECOND FLOOR HEATED	976
TOTAL HEATED	1,888
COVERED ENTRY	36
TWO-CAR GARAGE	508
TOTAL UNDER ROOF	2,432

NOTE: EXTERIOR DIMENSIONS REFER TO OUTSIDE OF SHEATHING

FRAMING NOTES:

1. I-JOISTS
ARE DESIGNED TO BE CONTINUOUS IN SOME AREAS. CONTRACTOR TO STOP & START JOISTS WHERE SHOWN ON PLAN TO ALLOW FOR CONTINUOUS ACTION. CONTRACTOR TO CONTACT ENGINEER OF RECORD FOR APPROVAL IF I-JOISTS DIFFER FROM THOSE SPECIFIED ON PLANS.
2. ALL FRAMING MEMBERS TO BE SPF#2 OR SYP#2 UNO.
3. ALL HARDWARE BY SIMPSON STRONG-TIE COMPANY OR EQUAL.
4. SEE ARCHITECTURAL PLANS FOR ALL DIMENSIONS.
5. CONTRACTOR RESPONSIBLE FOR ALL WATERPROOFING AND FLASHING.
6. ALL LOAD BEARING HEADERS TO BE (2)2X10 UNO.
7. BEAMS PARALLEL TO FLOOR JOISTS SHALL ALIGN UNDER WALLS ABOVE.
8. DOUBLE JOISTS OR CRIPPLE WALLS TO BE INSTALLED BETWEEN STACKING LOAD BEARING WALLS TO TRANSFER LOADING.
9. DOUBLE JOISTS CAN BE SEPARATED UP TO 3 ½" TO ALLOW FOR PASSAGE OF PLUMBING PIPES AND ELECTRICAL WIRES.
10. RIMBOARDS & BANDS PARALLEL TO FLOOR JOISTS SHALL BE DOUBLED.
11. ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, & BEAM STUDS MUST BE SUPPORTED WITH EQUIVALENT # OF SOLID BLOCKS AND/OR STUDS DOWN TO THE FOUNDATION. RIMBOARD AND I-JOIST BLOCKING IS NOT PERMISSIBLE.
12. FRAMER SHALL STAGGER SEAMS OF SUBFLOOR A MINIMUM OF 16" FROM JOIST SPLICES AT ALL BEAMS, GIRDERS, AND WALLS.
13. WALL FRAMING UNO:
WALLS UP TO 10'-2" TALL SHALL BE MINIMUM 2X4 @ 16" O.C.
WALLS BETWEEN 10'-2" & 13'-2" TALL TO BE MINIMUM 2X6 @ 16" O.C.
14. STUD BEARING END SUPPORT UNO:
2X LUMBER = # OF BEAM PLIES, 1 FOR HEADERS
LVL, PSL, GLU-LAM = 3
STEEL BEAM = 5
15. NUMBER OF KING STUDS BASED ON OPENING WIDTH UNO:

2X4 WALL		2X6 WALL	
WIDTH < 3'-9"	= 1 KING	WIDTH < 5'-6"	= 1 KING
3'-9" TO 6'-0"	= 2 KINGS	5'-1" TO 10'-0"	= 2 KINGS
6'-1" TO 8'-0"	= 3 KINGS	OVER 10'-1"	= SEE PLAN
8'-1" TO 10'-1"	= 4 KINGS		
OVER 10'-1"	= SEE PLAN		

16. METAL HANGER SCHEDULE UNO:

(2) 2X8	LUS 28-2
(2) 2X10, (2) 2X12	LUS 210-2
(2)x210, (2)x312	LUS 210-3
(2) 1¾" X 9¼" - 14" LVL	HUS 410
(2) 1¾" X 16" - 24"LVL	HHUS 416
ALL TRIPLE LVLs	HHUS 5.50/10

EQUIVALENT CAPACITY HANGERS BY OTHERS ARE ACCEPTABLE. DO NOT BEND/MODIFY HANGERS OR USE INADEQUATE FASTENERS.

17. FASTENER SCHEDULE UNO:

METAL HANGERS	.160 X 3½" OR 16D X 2½" NAILS (16D = 0.162"Ø)
METAL STRAPS	.160 X 3½" OR 16D X 2½" NAILS
HOLDOWNS	½" X ½" SDS SCREWS.
TO MASONRY	½"x6" TITEN 2 SCREWS.
INTO ≤ ½" OF WOOD	.100 X ½" NAILS (10D = 0.148"Ø).
OTHER HARDWARE	PER MANUFACTURERS SPECIFICATIONS UNO.

USE PROTECTED FASTENERS PER CODE IF EXPOSED TO WEATHERING.

18. "SCREWED"
FASTEN PLIES OF (3) PLY LVLS WITH (2) 5" FLATLOK SCREWS @ 16" O.C.
FASTEN PLIES OF (4) PLY LVLS WITH (2) 6 ½" FLATLOK SCREWS @ 16" O.C.
SCREWS TO BE 3"(MIN.) AND 3"(MAX.) FROM TOP OR BOTTOM OF BEAM.
SDW EWP PLY SCREW EQUIVALENT IS ACCEPTABLE.

19. WHERE METAL STRAPS INDICATED, EQUIVALENT LENGTH CSHP18 COIL STRAP IS PERMISSIBLE (USE TWO IF SPECIFIED STRAP WIDTH IS 3").

BRACED WALL LINE NOTE:

THIS STRUCTURE HAS BEEN ANALYZED FOR LATERAL LOADING USING CONTINUOUSLY SHEATHED ½" OSB WALL SHEATHING USING 8D NAILS AT 6" O.C. ALONG EDGES & 12" O.C. AT INTERMEDIATE FRAMING.

BLOCK & NAIL ALL PANEL EDGES.

WHERE BRACED WALLS DO NOT MEET THE PRESCRIPTIVE REQUIREMENTS OF SECTION R602.10 OF THE CODE, IT HAS BEEN ANALYZED BY ENGINEERING ANALYSIS INCORPORATING ENGINEERED LATERAL BRACING ELEMENTS WHERE NEEDED TO MEET THE INTENT OF THE CODE. SEE PLAN FOR ALL NOTES AND DETAILS.

LEGEND:

J	JACK STUD
K	KING STUD
ST	STUD
CS	CRIPPLE STUD
SB	SQUASH BLOCK
EE	EACH END
SGL	SINGLE JOIST
DBL	DOUBLE JOIST
PT	PRESSURE TREATED
UNO	UNLESS NOTED OTHERWISE

□ POINT LOAD

8 2X8 JOISTS @ 16" O.C.
11 11⅞" PRI-40 I-JOISTS @ 16" O.C.

K&H RESIDENTIAL DESIGN
KHRESIDENTIALDESIGNS.COM
704-728-0582

N·C·B·D·C NATIONAL COUNCIL OF BUILDING DESIGNERS
Kevin D. Holdridge
CERTIFICATE NO. 04-182

ENGINEER:
NORTH CAROLINA PROFESSIONAL SEAL 31995 ENGINEER CHAD T. RITTER
IDE INTELLIGENT DESIGN ENGINEERING
1908 J.W. PEARCE PLACE, SUITE 200E
STALLCITY, NC 28562
CORPORATE LICENSE #: C-04116
PHONE: 704.333.7920

BYSNA INVESTMENTS 1
LOT 121 MEADOW GLEN DRIVE
TROUTMAN, NORTH CAROLINA

HomeBuilders Association of Charlotte
MEMBER BBB ACCREDITED
CERTIFIED PROFESSIONAL AMERICAN INSTITUTE OF BUILDING DESIGN

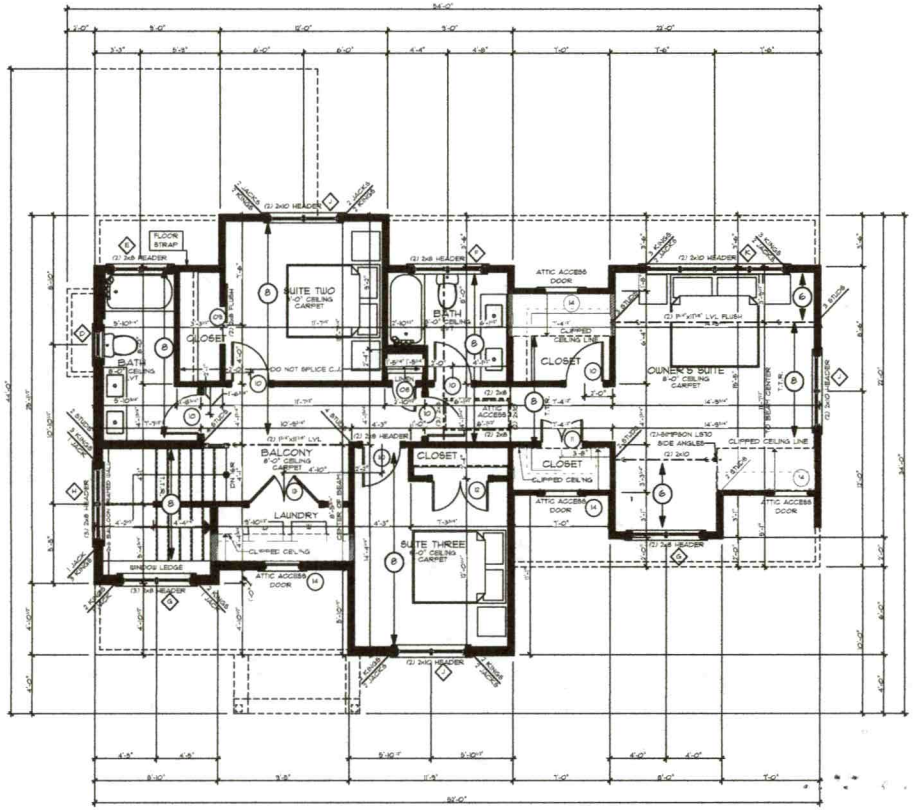
PROJECT NO: 2022-
DATE: 3/15/2
REVISIONS:

DRAWN BY: K.HOLDRIDGE

COPYRIGHT
THIS RESIDENTIAL DESIGN IS AUTHORIZED TO BE USED ONE TIME BY THE ORIGINAL PURCHASER. MODIFICATIONS OR REUSE OF THIS PLAN IS PROHIBITED

SHEET TITLE
FIRST FLOOR PLAN

06
SHEET 06 OF 7



NOTE: EXTERIOR DIMENSIONS REFER TO OUTSIDE OF SHEATHING

(8) 2x8 SPF#2 @ 16" o.c. CEILING JOISTS

(6) 2x6 SPF#2 @ 16" o.c. CEILING JOISTS

FLOOR PLAN CONSTRUCTION NOTES

(SEE SHEET 3 FOR ADDITIONAL NOTES)

1. "T.T.R" INDICATES "TIE (CEILING JOIST) TO RAFTER WITH FOUR 3"x0.131" NAILS)
2. ALL LOAD-BEARING HEADERS SHALL BE (2)2X8 SPF#2 UNLESS NOTED OTHERWISE ON THE PLAN.
3. WHERE DIMENSIONS ARE NOT INDICATED, BEAMS THAT RUN PARALLEL TO FLOOR JOISTS ARE INTENDED TO ALIGN UNDER LOAD BEARING WALLS. SEE PLANS FOR DIMENSIONS TO WALLS.
4. ALL WALLS UP TO 10'-2" FT. TALL SHALL BE MIN. 2X4 SPF#2 @ 16" o.c. UNLESS NOTED OTHERWISE ON THE PLAN. WALLS BETWEEN 10'-2" AND 13'-0" TALL SHALL BE A MIN. OF 2X6 SPF#2 @ 16" o.c. UNLESS NOTED OTHERWISE ON THE PLAN. TALLER WALLS ARE SPECIFICALLY NOTED ON THE PLAN.
5. WOOD BEAMS SHALL BE SUPPORTED BY METAL HANGERS OF ADEQUATE CAPACITY WHERE FRAMING INTO BEAMS OR LEDGERS. THE FOLLOWING HANGER SCHEDULE MAY BE USED UNLESS NOTED OTHERWISE ON THE PLAN:

MEMBER SIZE	SIMPSON HANGERS
(2) 2X8	LUS 28-2
(2) 2X10/2X12 2X12	LUS 210-2
(3) 2X10, (3) 2X12	LUS 210-3
(2) 1¾" X 9¼" LVL	HUS 410
(2) 1¾" X 11⅞" LVL	HUS 412
(2) 1¾" X 16"-24" LVL	HHUS 410
ALL TRIPLE LVLs	HHUS 5.50/10

6. NOTE: FILL ALL OF THE HOLES IN BEAM HANGERS WITH 16d x 3½" COMMON NAILS (3½"x 0.162") OR 16d x 0½" (3½"x .0.162") NAILS UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. DO NOT BEND OR MODIFY THE HANGER OR USE INAPPROPRIATE FASTENERS. DO NOT USE JOIST OR "HANGER NAILS" UNLESS OTHERWISE NOTED ON THE PLANS OR IN SITUATIONS WHERE ONLY 1½" OR LESS OF WOOD IS PROVIDED TO NAIL INTO.
7. "LVL" AND GLU-LAM BEAMS MUST HAVE ENOUGH STUDS TO SUPPORT ALL PLIES AT EACH END WITH A MINIMUM OF (3)2X4 OR (2)2X6 STUDS UNDER EACH END UNLESS NOTED OTHERWISE.
8. INDICATES POINT LOADS. ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, BEAM SUPPORTS - WHETHER WOOD OR STEEL-CANNOT BEAR ON SHEATHING ALONE. BLOCKING EQUAL TO OR BETTER THAN THE POINT LOAD SUPPORTS ABOVE MUST BE CARRIED THROUGH ALL CONSTRUCTION TO THE FOUNDATION. INSTALL 2X4 EQUASH BLOCKS (6.8L) OF EQUAL NUMBER TO COUPLN ABOVE BETWEEN SUBFLOOR AND FOUNDATION WALL OR LOWER PLATE. RIM BOARDS AND JOIST BLOCKING SHALL NOT BE CONSIDERED AS AN ACCEPTABLE MEANS OF SUPPORT UNDER CONCENTRATE POINT LOADS FROM LVL AND STEEL BEAMS OR WHERE "6.8 IS INDICATED ON THE PLAN.

NUMBER OF KING STUDS BASED ON OPENING WIDTH:

2x4 WALL	
LESS THAN 4'-3"	+ 1 KING
3'-9" TO 6'-10"	+ 2 KINGS
6'-1" TO 8'-10"	+ 3 KINGS
8'-1" TO 10'-1"	+ 4 KINGS
OVER 10'-1"	+ SEE PLAN

2x6 WALL	
LESS THAN 5'-0"	+ 1 KING
5'-1" TO 10'-0"	+ 2 KINGS
GREAT THAN 10'-1"	+ SEE PLAN

9. "SCREWED": FASTEN ALL TRIPLE PLY LVLs TOGETHER WITH TWO ROWS OF 5" LONG FLATLOK OR SIMPSON SDS SCREWS @ 9" o.c. AND FOUR PLY LVLs WITH TWO ROWS OF 6½" FLATLOK SCREWS @ 16" o.c. UNLESS NOTED OTHERWISE ON THE PLANS. THE SCREWS SHALL BE LOCATED A MINIMUM OF 3" AND A MAXIMUM OF 3" FROM THE TOP OR BOTTOM OF THE BEAM.
10. FASTEN FIRST KING STUD TO LUMBER HEADER WITH AT LEAST THREE 16d (3"x0.162") IN EACH PLY. EACH KING STUD PLY SHALL BE NAILED TO THE OTHER WITH TWO ROWS OF 3"x0.131" NAILS AT 8" o.c. SEE R602.1.9 FOR NUMBER OF KING STUDS REQUIRED IF NOT NOTED ON PLANS.
11. CONTRACTOR TO PROVIDE MINIMUM 22"x30" ACCESS TO ATTIC.
12. PROVIDE 1/2" DRYWALL SEPARATION BETWEEN WALL & 5/8" TYPE X DRYWALL AT CEILING OF HOUSE & GARAGE
13. ALL ANGLES ARE 45° UNLESS NOTED OTHERWISE
14. BUILD UP FLOOR AREAS AS REQUIRED TO HAVE FLUSH FLOOR FINISHES AT DIFFERENT FLOOR FINISHING MATERIALS.
15. CONTRACTOR IS RESPONSIBLE FOR ALL WATERPROOFING AND FLASHING
16. T.T.R. INDICATES "TIE (CEILING JOIST) TO RAFTER WITH FOUR 3"x0.131" NAILS.

- VERIFY ROUGH OPENING REQUIREMENTS WITH WINDOW MANUFACTURER

SECOND FLOOR WINDOW SCHEDULE

ID	QTY	SIZE W	SIZE HT	NOTES
D	1	2'-0"	4'-6"	SINGLE DOUBLE HUNG WINDOW UNIT
E	1	4'-0"	1'-6"	TWIN 30" TRANSOM WINDOW UNIT
F	1	5'-0"	1'-6"	TWIN 30" TRANSOM WINDOW UNIT
G	2	5'-0"	5'-0"	TWIN 30" FIXED WINDOW UNIT
H	1	5'-0"	5'-0"	TWIN 30" FIXED WINDOW UNIT
J	3	5'-0"	5'-0"	TWIN 30" DOUBLE HUNG WINDOW UNIT
K	1	10'-0"	1'-6"	QUAD 30" TRANSOM WINDOW UNIT

- VERIFY ROUGH OPENING REQUIREMENTS WITH DOOR MANUFACTURER

SECOND FLOOR DOOR SCHEDULE

ID	QTY	DOOR W	DOOR HT	GLZ	NOTES
08	1	1'-6"	6'-8"		SINGLE INTERIOR TWO PANEL DOOR UNIT
09	1	2'-6"	6'-8"		SINGLE INTERIOR BARN DOOR w/ TRACK & HARDWARE
10	6	2'-8"	6'-8"		SINGLE INTERIOR TWO PANEL DOOR UNIT
11	1	3'-0"	6'-8"		TWIN 18" INTERIOR TWO PANEL DOOR UNIT
12	1	4'-0"	6'-8"		TWIN 24" INTERIOR TWO PANEL DOOR UNIT
13	1	5'-0"	6'-8"		TWIN 30" INTERIOR TWO PANEL DOOR UNIT
14	4	2'-6"	3'-0"		SINGLE INTERIOR ATTIC ACCESS DOOR, INSULATED TWO PANEL DOOR w/ WEATHER STRIPPING & THRESHOLD

SQUARE FOOTAGE

ALL FOOTAGE CALCULATED TO STUD

1. FIRST FLOOR HEATED	912
2. SECOND FLOOR HEATED	976
TOTAL HEATED	1,888
COVERED ENTRY	36
TWO-CAR GARAGE	528
TOTAL UNDER ROOF	2,452

BRACED WALL LINE NOTE:

THIS STRUCTURE HAS BEEN ANALYZED FOR LATERAL LOADING USING DIAGONAL WALL BOARD SHEATHING FOR EXISTING PORTION OF STRUCTURE. NEW PORTIONS OF THIS STRUCTURE HAVE BEEN ANALYZED FOR CONTINUOUSLY SHEATHED 7/16" OSB WALL SHEATHING USING 8d NAILS AT 6" o.c. ALONG EDGES AND 12" o.c. AT INTERMEDIATE FRAMING. BLOCK AND NAIL ALL PANEL EDGES.

WHERE BRACED WALLS DO NOT MEET THE PRESCRIPTIVE REQUIREMENTS OF SECTION R602.10 OF THE CODE, IT HAS BEEN ANALYZED BY ENGINEERING ANALYSIS INCORPORATING ENGINEERED LATERAL BRACING ELEMENTS WHERE NEEDED TO MEET THE INTENT OF THE CODE. SEE PLANS FOR ALL NOTES AND DETAILS.

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

K+H RESIDENTIAL DESIGN
KHRESIDENTIALDESIGNS.COM
704-728-0580
N·C·B·D·C
Kevin D. Holdridge
CERTIFICATE NO. 36,165
ENGINEER:
NORTH CAROLINA PROFESSIONAL SEAL 31095 ENGINEER CHAD T. RITTER
IDE INTELLIGENT DESIGN ENGINEERING
1848 J.N. PEASE PLACE, SUITE F204
CHARLOTTE, NC 28262
CORPORATE LICENSE # P0311
PHONE: 704-333-9200

BYSNA INVESTMENTS 1
LOT 121 MEADOW GLEN DRIVE
TROUTMAN, NORTH CAROLINA

HomeBuilders Association of Charlotte · BBB · CERTIFIED GREEN PROFESSIONAL · AMERICAN INSTITUTE OF BUILDING DESIGN — MEMBER

PROJECT NO: 2022-
DATE: 3/15/2
REVISIONS:

DRAWN BY: K.HOLDRI

COPYRIGHT
K&H RESIDENTIAL DESIGNS AUTHORIZES THIS PLAN TO BE USED ONE TIME BY THE ORIGINAL PURCHASER. — MODIFICATIONS OR REUSE OF THIS PLAN IS PROHIBITED

SHEET TITLE
SECOND FLOOR PLAN

08