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 2024-54325

PIN # 4870 -- 21 -- 7132

APPLICANT/OWNER: Soil & Forestry Services LLC

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

SITE ADDRESS: 158 Galliher Rd, Harmony, NC 28634

PHONE: 980-223-2352

ALT. PHONE:

SITE DIRECTIONS: 77N -> exit 54 -> 21N -> L Galliher -> lot on R

SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: Farmony Park

SECTION: n/a

LOT # 8

LOT AREA: 1.527

DESIGN FLOW: 360 gpd

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

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

Septic Tank 1000 (gal) STB 760 Date 4/23/24

Pump Tank ____ (gal) PT ____ Date ____

Pump Make ____ Model ____ Serial # ____

Nitrification Fields 1 # Lines 3 Linear Ft: 302

Trench Width 36 *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: 25% Reduction - IIb

Repair System Description: 25% Reduction - IIb

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

☑ Residence No. Bedrooms 3

☐ Business No. Persons 6

☐ Other No. Employees ____

☐ Slab ☑ Crawl Space

☐ Basement w/plumbing ☐ Basement w/o plumbing

Usable Depth to LC (Repair): 57 *Limiting Condition*

Water Supply

☐ Private

☑ Public

☐ Community

Comments / Conditions: Do not pave, grade, drive, park, or bury utilties in drainfield.

Permit revised to accomodate plumbing.

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.

Installed as Drawn

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: ____

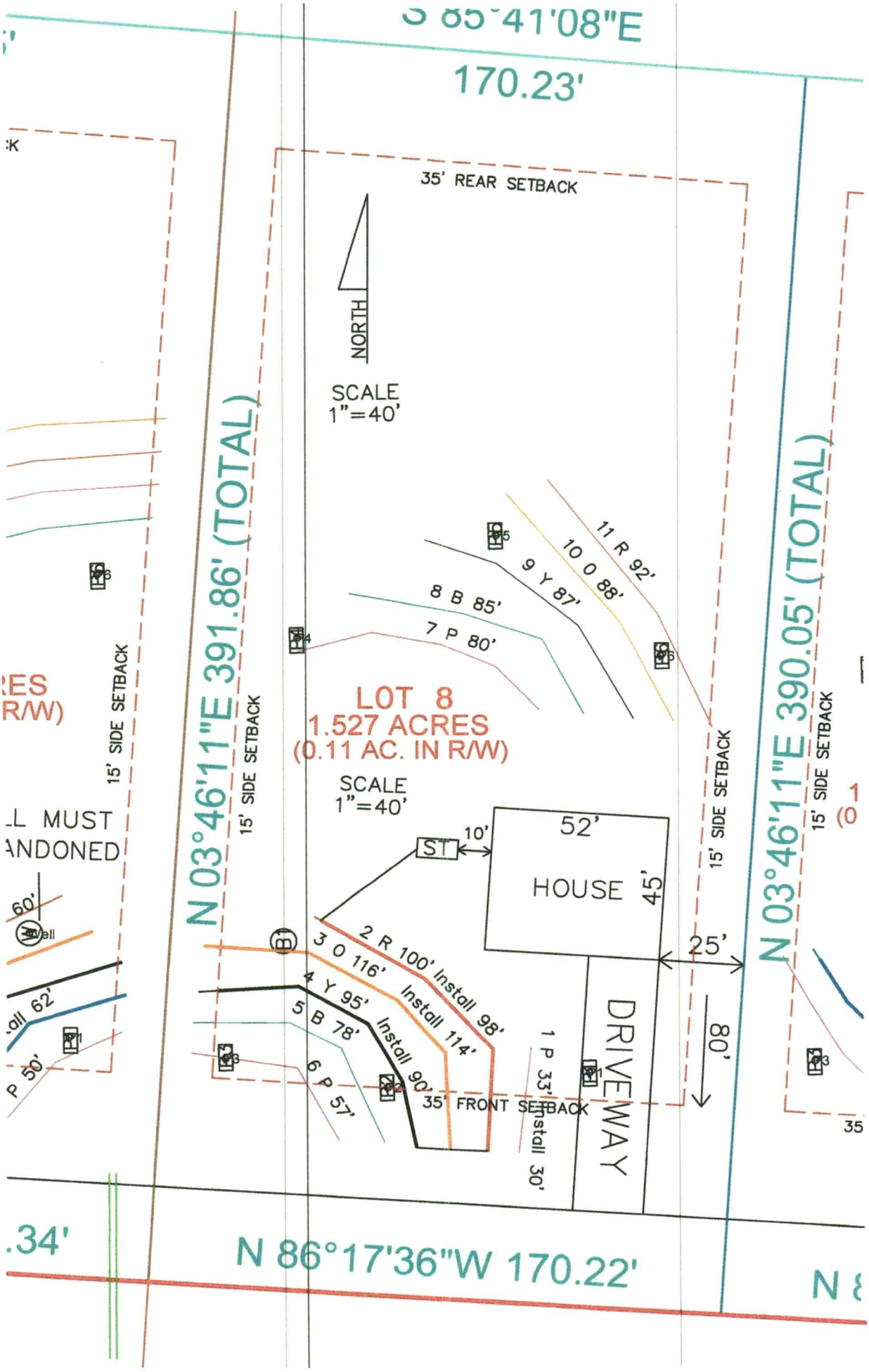
Installed by: Stutts Grading

IMPROVEMENT PERMIT by: D. Wieberg Date: 6-6-24

OPERATION PERMIT by: Cory Hill Date: 6/12/24

AUTHORIZATION TO CONSTRUCT by: D. Wieberg Date: 6-6-24

Existing System Inspected by: ____ Date: ____


S 85°41'08"E
170.23'
35' REAR SETBACK
NORTH
SCALE
1"=40'
N 03°46'11"E 391.86' (TOTAL)
N 03°46'11"E 390.05' (TOTAL)
15' SIDE SETBACK
15' SIDE SETBACK
15' SIDE SETBACK
15' SIDE SETBACK
LOT 8
1.527 ACRES
(0.11 AC. IN R/W)
SCALE
1"=40'
11 R 92'
10 O 88'
9 Y 87'
8 B 85'
7 P 80'
52'
HOUSE
45'
10'
ST
25'
DRIVEWAY
,08'
2 R 100' Install 98'
3 O 116'
4 Y 95' Install 114'
5 B 78' Install 90'
6 P 57'
1 P 33' Install 30'
35' FRONT SETBACK
60'
Well
62'
50'
N 86°17'36"W 170.22'
.34'

Permit/File #:

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: 4870217132

Issued To: Grant Winchester // Bluewave Customer Builders Inc

Property Location: 158 Galliher Rd, Harmony NC 28634

Subdivision (if applicable): Farmony Park Lot#: 8 Block: Section:

LSS Report Provided: Yes [X] No [ ]

If yes, name and license number of LSS: Ashley Rollans #1231

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

Facility Type: 3 bedroom house

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*: IIb (ACCEPTED) GRAVITY (Initial) Pump Required: [ ] Yes [X] No [ ] May be required

Proposed Wastewater System Type*: IIb (ACCEPTED) PMANIFOLD (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*

Saprolite System (Initial): [ ] Yes [X] No Saprolite System (Repair): [ ] Yes [X] 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)*: 57" ** 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:

See Design

Licensed Soil Scientist Print Name: Ashley Rollans

Licensed Soil Scientist Signature: Date: 5/14/2024

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-2024-54325

This Section for Local Health Department Use Only

Initial submittal received: 6/5/24 *Date* by DW *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: 6/6/24

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: 6/6/29

See attached site sketch

NCDHHS

Permit/File #:

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

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

PIN/Lot Identifier: 4870217132

Issued To: Grant Winchester // Bluewave Customer Builders Inc

Property Location: 158 Galliher Rd, Harmony NC 28634

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* IIb (ACCEPTED) GRAVITY (Initial) IIb (ACCEPTED) PMANIFOLD (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] Domentic [ ] 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: 302 feet Trench/Bed Spacing: 9 feet on center

Trench/Bed Width: 36 inches LTAR: 0.3 gpd/ft² Usable Depth to LC (Initial)*: 50" *Limiting condition

Soil Cover: 0 inches Slope Adjusted Maximum Trench/Bed Depth‡: 30 inches *‡ Measured on the downhill side of the trench*

Pump Tank Size (if applicable): N/A gallons Requires more than 1 pump? [ ] Yes [X] No

Pump Requirements: N/A ft. TDH vs. N/A GPM Grease Trap Size (if applicable): gallons

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

See Design

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: Ashley Rollans Expiration Date: 5/14/2029

AOWE/PE Signature: Date: 5/14/2024

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

See attached site sketch

NC ONSITE WASTEWATER EVALUATOR Certification Number 10027E

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
Division of Public Health

Permit/File #: OSWP-2024-54325

This Section for Local Health Department Use Only

Initial submittal received: 6/5/24 *Date* by DW *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. Wisberg Date of Issuance: 6/6/24

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: _____

See attached site sketch

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

Project#: 24-0001
May 14th, 2024

Bluewave Custom Buidlers Inc
Attn: *Grant Winchester*
Email: bluewavebuilds@gmail.com

RE: Soil & Site Evaluation for a 3 Bedroom Residence at 158 Galliher Rd, Lot 8, 1.52 ac Parcel, PIN# 4870217132, Harmony, NC 28634, Iredell County, NC.

Grant:

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 submittals to Iredell County Health Department.

Site Conditions

At the time of our evaluation land cover on the property was mostly open field on the property. Topography within the evaluated area was gently to moderate slope near the house site with moderate percentage of slope in the proposed drainfield area. Property lines and corners were marked at the time of the evaluation by Peak Surveying. The Surveyor provided an Autocad File of the survey as a basemap. The proposed septic layout was located via GPS & tape measure which was used to produce the attached *Site Plan*. The house was under construction by the builder. The plumbing stub was previously on the front of the house but was relocated to the left rear. The revised design reflects the changes needed to adapt to the change in plumbing.

Methodology

We evaluated soil areas through the use of excavator pits. Soil morphological conditions including color, texture, structure, etc. were reviewed in the field with six pit locations on the property flagged and located via GPS. All six excavator pits are located in 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 house envelope was located via tape measure. An on-ground layout of system and repair was performed using a laser level. Pin flag locations of the layout were also located by GPS and tape measure. Detailed system & repair information is summarized in the following paragraph for this Lot.

158 Galliher Rd-Lot 8 PIN#4870217132*(See Attached Design)*

The septic layout for this lot (9' centers) yielded a total of 911 linear feet of line. The primary system is proposed as 302 linear feet of Accepted (25% Reduction) drainfield with gravity distribution. Trench depth (Low Side) is specified at 30 inches. The repair system is proposed as 300 linear feet of Accepted (25% Reduction) drainfield with pressure manifold distribution. Trench depth (Low Side) is specified at 30 inches. There is 609 linear feet available for repair.

Session Law Requirements

All information needed to issue the IP must be submitted with the application. The application shall include all information described in 15A NCAC 18E .0202 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 Grant Winchester

Signature _____ 5/22/24

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 on the site may nullify this design for 158 Galliher Rd-Lot 8 PIN#4870217132. 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, Required Statement for Local Health Department/NCDHHS*

SOIL & FORESTRY SERVICES

5/14/2024

Iredell County Environmental Health
Attn: Heath Snow
349 N Center Street
Statesville, NC 28677

Re: Improvement Permit & CA Submittal for 158 Galliher Rd, Harmony NC (Lot #8)

Mr. Snow

Attached please find sealed soil notes as well as site plans and design related data for a 3 bedroom ACCEPTED system using GRAVITY distribution.

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

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5) and (a6)."

Owner/Applicant: Grant Winchester // Bluewave Customer Builders Inc

Signature: _____

Date: 5/22/24

"The LSS Evaluation is being submitted pursuant to and meets requirements of GS 130A-335(a2)." This Improvement Permit is issued pursuant to G.S. 130A-335(a2),(a3), and (a4) using the signed and sealed LSS evaluation attached here". "This AOWE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5)"

"This Construction Authorization is issued pursuant to G.S. 130A-335 (a2), and (a5) and (a6) using the signed and sealed plans or evaluations attached here."

Ashley Rollans, LSS

Signature: _____

Date: 5/14/2024 Seal:

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

NC ONSITE WASTEWATER
EVALUATOR

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 submitted 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 [ ] Other _____ [ ] 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 IPW) [ ] Yes [X] No

Applicant:	Ashley Rollans // Soil & Forestry Services, PA
Mailing Address:	PO Box 8572
City:	Statesville
State:	North Carolina
Zip:	28687
Phone #:	980-223-8352
Email:	sfsstatesvillenc@gmail.com

Owner:	Grant Winchester // Bluewave Customer Builders Inc
Mailing Address:	2113 Wright Rd
City:	Indian Trail
State:	North Carolina
Zip:	28079
Phone #:	704-993-0572
Email:	bluewavebuilds@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: Ashley Rollans Date: 5/14/2024

Owner's Signature: [signature] Date: 5/22/24

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

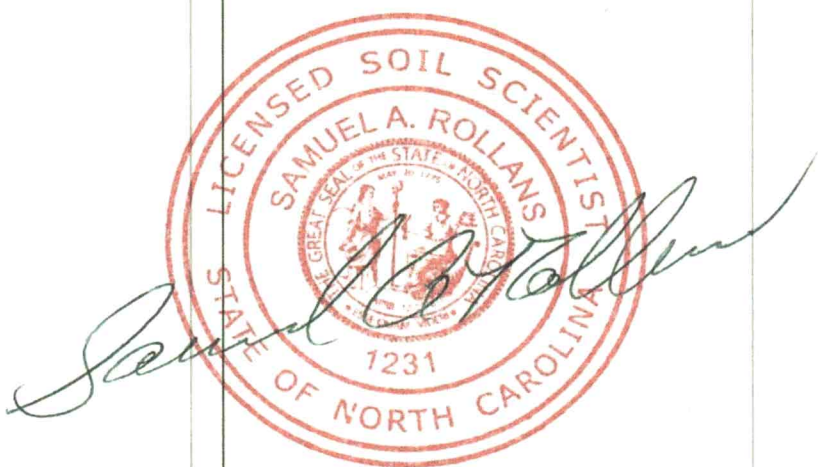
sfsstatesvillenc@gmail.com
980-223-8352
PO Box 5872
Statesville NC 28687
SoilAndForestryServices.com

Project# 24-0001

Septic System Design for a 3 Bedroom House
ACCEPTED using GRAVITY distribution
Site location: 158 Galliher Rd, Harmony NC, Lot # 8

Contents	Page
Information for the Installer	1
Design Specifications	2
Layout Specifications	3
Site Plan	4
Calculations	5
Soil Descriptions	Submitted
Floor Plans	Submitted (HUC)

5/14/2024
Design By: Ashley Rollans



ACCEPTED using GRAVITY distribution
Site location: 158 Galliher Rd, Harmony NC, Lot # 8

* **CALL 811 BEFORE DIGGING**
* 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 that must be considered along with all other considerations.
* 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
* 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.
* Elevations at pinflag locations should be checked by the installer prior to beginning
* Septic tank riser shall be a minimum of 6" above finished grade.

* **System specified as ACCEPTED type using GRAVITY distribution**
* **Repair specified as ACCEPTED type using PMANIFOLD distribution**
* **System trench depth specified at 30"**
* **System trenches installed on 9' minimum; 36" wide trenches**
* **Installation does not require a soil cap**

Page 2	DESIGN SPECIFICATIONS	Project #24-0001

ACCEPTED using GRAVITY distribution
Site location: 158 Galliher Rd, Harmony NC, Lot # 8

Business (if applicable):	Bluewave Customer Builders Inc	
Contact:	Grant Winchester	
Phone:	704-993-0572	
Email:	bluewavebuilds@gmail.com	
County:	Iredell	
Location:	158 Galliher Rd, Harmony NC 28634	
Source of Wastewater Flow:	3	bedroom home
Estimated Daily Wastewater Production:	360	gpd
Drain field Size:	302	lf
Loading Rate:	0.3	$gpd/ft.^2$
Trench Depth:	30	in
Trench Width:	36	in
Soil Cap:	0	in
Septic Tank Size:	1000	gal

Page 3	LAYOUT SPECIFICATIONS	Project #24-0001

ACCEPTED using GRAVITY distribution
Site location: 158 Galliher Rd, Harmony NC, Lot # 8

Daily Flow (gpd) 360 **5/14/2024**

LINE #	FLAG COLOR	BS	HI	FS	ELEV	FLAGGED LENGTH	DESIGN LENGTH
TBM INSTR. 1							
			SYSTEM				
2	RED					100	98
3	ORANGE					116	114
4	YELLOW					95	90
			REPAIR				
5	BLUE					78	78
6	PINK					57	57
7	PINK					80	80
8	BLUE					85	85
9	YELLOW					87	87
10	ORANGE					88	88
11	RED					92	92
1	PINK					33	33

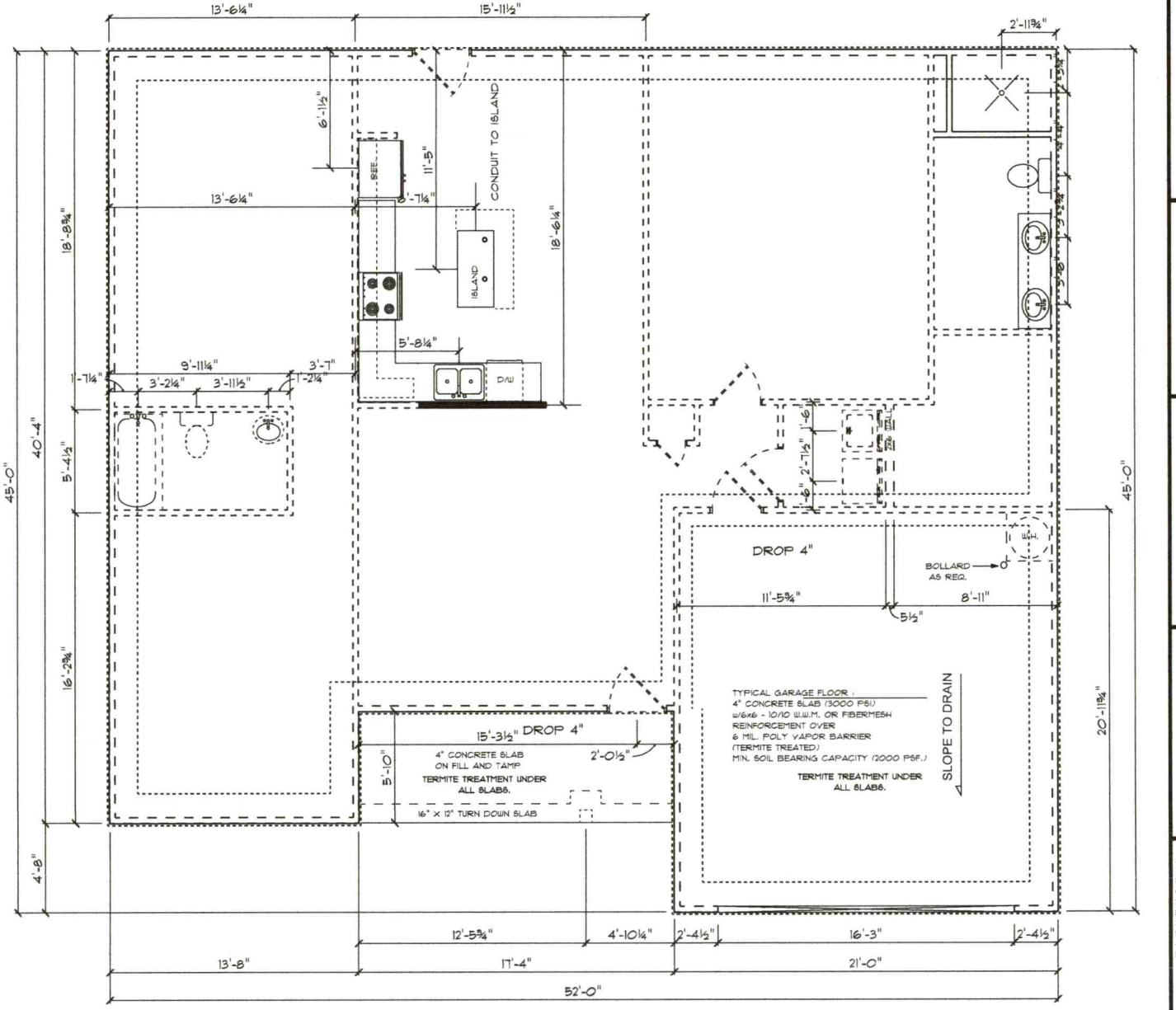
	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	REDUCTION TYPE	DIST	TRENCH DEPTH	SOIL CAP
SYSTEM	302	0.300	ACCEPTED	25%	GRAVITY	30	0
REPAIR	609	0.300	ACCEPTED	25%	PMANIFOLD	30	0

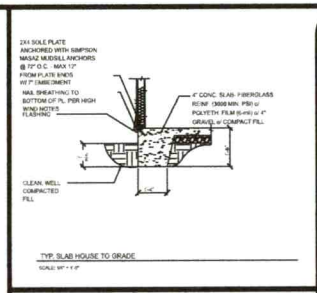
Notes:
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS and FS indicate rod readings

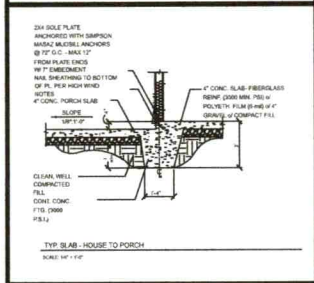
CALCULATIONS	Project #24-0001

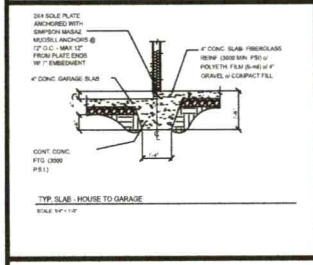
ACCEPTED using GRAVITY distribution
Site location: 158 Galliher Rd, Harmony NC, Lot # 8

PROJECT INFO	Designer	Ashley Rollans
	Project #	24-0001
	Project MM YYYY	5/14/2024
	Project Location	158 Galliher Rd, Harmony NC
	Lot # (if applicable)	8
	Subdivision (if applicable)	Farmony Park
	Parcel #	4870217132
	Lot size (acres)	1.52
	Business (if applicable)	Bluewave Customer Builders Inc
	Name (Owner)	Grant Winchester
	Mailing Address (Owner)	2113 Wright Rd
	City (Owner)	Indian Trail
	State (Owner)	North Carolina
	Zip (Owner)	28079
	Phone (Owner)	704-993-0572
	Email (Owner)	bluewavebuilds@gmail.com
	County	Iredell
	Bedrooms	3
	Water Source	Municipal
	Foundation Type	Crawl Space
	Daily Flow	360
SYSTEM	System LTAR	0.3
	System Type	ACCEPTED
	System Distribution	GRAVITY
	System Trench Center Distance (feet)	9
	System Trench Width (inches)	36
	System Trench Depth (inches)	30
	Soil Cap (inches)	0
	Usable Soil Depth (inches)	50"
	Media Height (inches)	12
	Tank Size	1000
	Required Feet of Line (system)	300
	Designed Feet of Line (system)	302
REPAIR	Repair LTAR	0.3
	Repair Type	ACCEPTED
	Repair Distribution	PMANIFOLD
	Repair Trench Center Distance (feet)	9
	Repair Trench Width (inches)	36
	Repair Trench Depth (inches)	30
	Soil Cap (inches)	0
	Usable Soil Depth (inches)	57"
	Tank Size	1000
	Required Feet of Line (repair)	300
	Designed Feet of Line (repair)	609









ATTENTION
1. ALL WORK SHALL MEET ALL LOCAL, STATE, AND NATIONAL CODES APPLICABLE AT TIME OF CONSTRUCTION.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORESTARTING CONSTRUCTION
3. ALL DIMENSIONS SHOULD BE READ OR CALCULATED. DO NOT SCALE
4. DESIGNER IS NOT RESPONSIBLE FOR ERRORS DISCOVERED AFTER CONSTRUCTION HAS STARTED

SCALE: 3/16" = 1'-0"

EVERY EFFORT HAS BEEN MADE IN THE PREPARATION OF THESE PLANS TO AVOID ERRORS. THERE IS NO GUARANTEE THAT THESE PLANS ARE ERROR FREE. ALL CONTRACTORS AND/OR OWNER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGINING CONSTRUCTION. ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE DESIGNERS FOR CORRECTION BEFORE BEGINING CONSTRUCTION. THE CONTRACTOR AND/OR OWNER SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED.

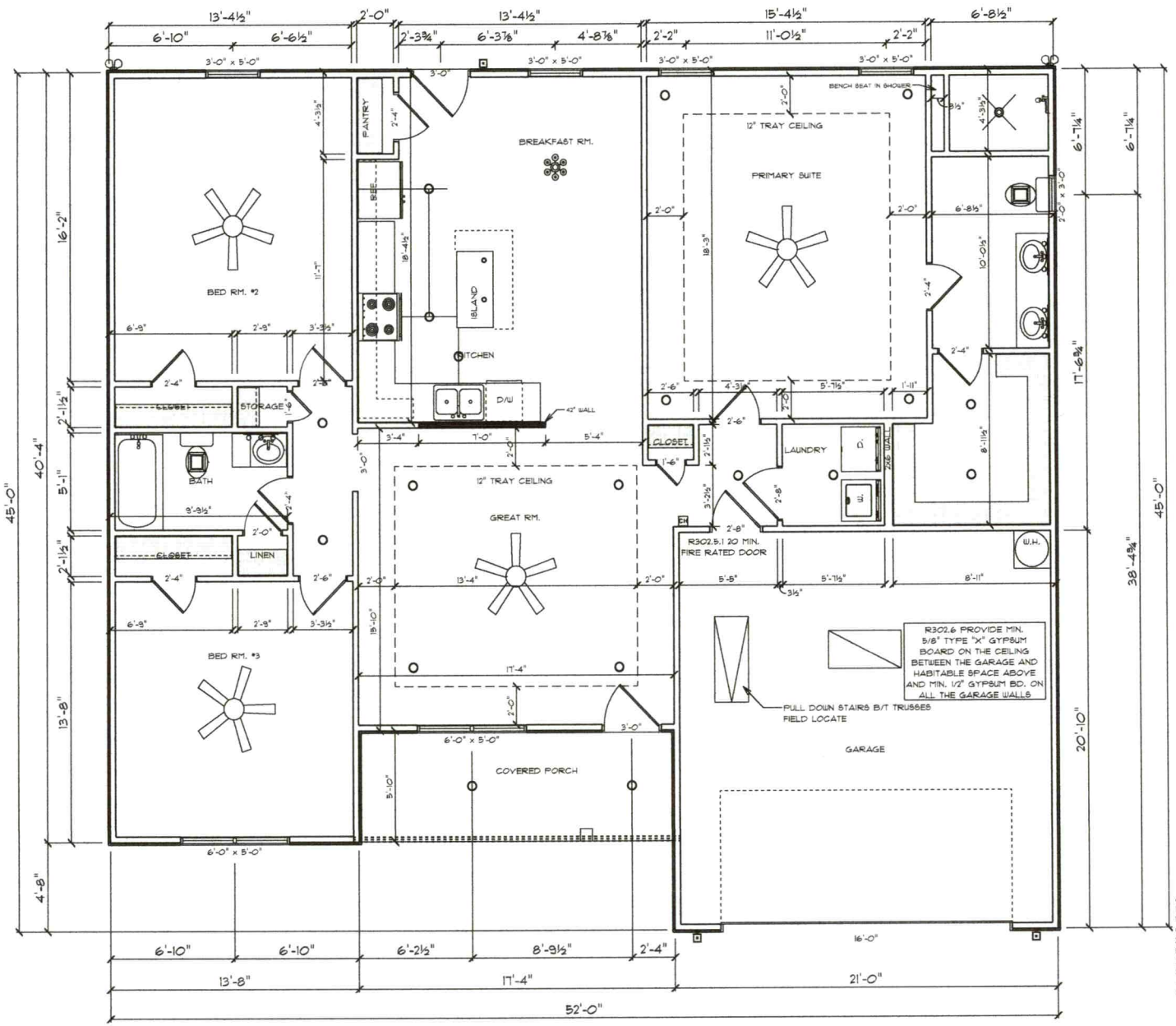
BLUEWAVE CUSTOM

PLAN #1660

DRAWN: 07-28-2016
REVISIONS: 03-03-2023

FOUNDATION PLAN

A-3



1ST. FLOOR 1660 SQFT.
TOTAL HEATED 1660 SQFT.
GARAGE 436 SQFT FRONT PORCH 102 SQFT.
TOTAL UNDER ROOF 2198 SQFT.

ATTENTION
1. ALL WORK SHALL MEET ALL LOCAL, STATE, AND NATIONAL CODES APPLICABLE AT TIME OF CONSTRUCTION.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORESTARTING CONSTRUCTION
3. ALL DIMENSIONS SHOULD BE READ OR CALCULATED, DO NOT SCALE
4. DESIGNER IS NOT RESPONSIBLE FOR ERRORS DISCOVERED AFTER CONSTRUCTION HAS STARTED

SCALE: 3/16" = 1'-0"

EVERY EFFORT HAS BEEN MADE IN THE PREPARATION OF THESE PLANS TO AVOID ERRORS, THERE IS NO GUARANTEE BY THE DESIGNER AGAINST ERROR. THE CONTRACTOR AND/OR OWNER SHALL EXAMINE AND VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY ERROR OR OMISSIONS SHOULD BE REPORTED TO THE DESIGNER FOR CORRECTION BEFORE PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR AND/OR OWNER SHALL ASSUME RESPONSIBILITY FOR ERRORS THAT ARE NOT REPORTED.

BLUEWAVE CUSTOM

PLAN #1660

DRAWN: 07-28-2016

REVISIONS: 02-02-2023

1ST FLOOR PLAN

A-4