Dup.

**App. #:** 11949

Septic Fee: 100.00

Date: 2/19/2021

**PERMIT APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT FOR ONSITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL**

**MECKLENBURG COUNTY HEALTH DEPARTMENT GROUNDWATER & WASTEWATER SERVICES**

Well Fee:

Date:

**FILE #** 9318B

SEPTIC / TYPE APPLICATION: ○ N/A ○ NEW SYSTEM ○ ALTERATION ○ REPAIR ◉ MODIFIED PLOT PLAN

WELL / TYPE APPLICATION: ◉ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

**JOB LOCATION INFORMATION:**

TAX / PARCEL #: 19702165 ☐ PO

STREET ADDRESS: 2545 Fox Hollow Rd

CITY: Charlotte

STATE: NC ZIP: 28227

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT #:

TOWNSHIP: MINT HILL

General Comments:

BUILDING INFORMATION:

TYPE OF BUILDING:

○ SINGLE MOBILE HOME (S) ○ MODULAR HOME (M)

○ DOUBLE WIDE (D) ○ MULTIPLE FAMILY (U)

◉ HOUSE (H) ○ OTHER

HEATED SQUARE FOOTAGE:

NUMBER OF BEDROOMS: 4

NUMBER OF OCCUPANTS: 5

FOUNDATION FOR RESIDENCE:

☑ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING

☐ CRAWL SPACE ☐ BASEMENT WITH NO PLUMBING

IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES: ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED:

NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE?: ○ Yes ◉ No

TYPE:

WATER SUPPLY:

✓ MUNICIPAL PRIVATE WELL PUBLIC WELL SHARED WELL OTHER

PROPOSED USE OF WELL:

● N/A IRRIGATION POTABLE (Drinking Water) OTHER

PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST 5-LEAST DESIRED)*:

N/A ANY TYPE ✓ CONVENTIONAL ACCEPTED INNOVATIVE ALTERNATIVE OTHER

RANK:

**ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.**

| | | | |
|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | ○ Yes ◉ No | GRADING/SOIL REMOVAL PERFORMED | ○ Yes ◉ No |
| EXISTING WASTEWATER SYSTEMS | ○ Yes ◉ No | JURISDICTIONAL WETLANDS | ○ Yes ◉ No |
| WELLS, SPRINGS, OR WATER LINES | ○ Yes ◉ No | APPROVAL REQ'RD BY OTHER AGENCY | ○ Yes ◉ No |
| EASEMENTS OR RIGHT-OF- | Yes ● No | WASTEWATER OTHER THAN DOM. SEWAGE | Yes ● No |

WAYS

CHEMICAL/PETROLEUM STORAGE TANKS ○ Yes ◉ No

KNOWN UNDERGROUND CONTAMINATION ○ Yes ◉ No

WASTE STORAGE ○ Yes ◉ No

GROUNDWATER USE RESTRICTIONS/VARIANCES ○ Yes ◉ No

**PROPERTY OWNER:**

NAME:

ADDRESS:

CITY:

STATE: NORTH CAROLINA ZIP:

HOME PHONE: WORK:

MOBILE: FAX:

EMAIL:

**LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:**

NAME:

ADDRESS:

CITY:

STATE: ZIP:

HOME PHONE: WORK:

MOBILE: FAX:

EMAIL:

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? ☐ UNKNOWN

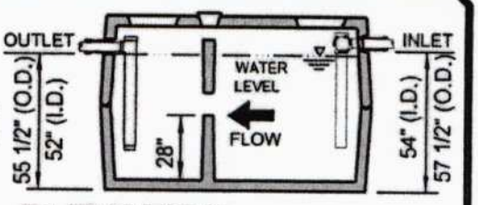
WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? ☐ N/A

PRINT Update Go to Front Counter Duplicate

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## GENERAL NOTES:

1. Design specifications conform to latest ASTM C1227 specifications "Precast Concrete Water and Wastewater Structures"
2. Concrete compressive strength 4,000 psi minimum.
3. Steel reinforcing design to conform to the requirements of ASTM C890 specifications for "Structural Design Loading for Water and Wastewater Structures" and shall utilize grade 60 re-bars conforming to the requirements of ASTM A615 or WWF conforming to the requirements of ASTM A185 or both. Place Additional reinforcing at all openings.
4. Optional Cast Iron casting with 24" dia. access in top section per NCDOT standards or optional 20" round EZ set lid or as otherwise specified. Supplied by either Dellinger Precast or customer. To be field adjusted using approved methods by contractor.
5. Pipe penetration locations as per job requirements. Pipe inlet and outlet locations to have PSX Direct Drive boots or equal. Pipe inlet locaions (typical 3 sides) to be knock out pannels. Effluent Filter supplied by Dellinger. Inlet Tee & Pipe supplied by contractor.
6. Joints to be sealed with ConSeal CS102. butyl rubber joint sealant or equal. Sealant meets or exceeds the requirements of latest federal specification SS-S-0021(210-A), AASHTO M-198B, and ASTM C-990-91.
7. Lift Insert / Lift Eye Pin by M.A Industries or equal, Cast-in by Dellinger Precast. Lifts meet or exceed OSHA requirements.
8. Method of namufacture is Wet Cast.
9. Sections are monolithic. Weights:
   Top Section 4,271 ± lbs.
   Base Section 4,426 ± lbs.
10. I.D. = Inside dimension
    O.D. = Outside dimension
    L = Length
    W = Width
    H = Height




ELEVATION







**DELLINGER PRECAST**

4531 North Hwy 16 • Denver, N.C. 28037 • Phone: 800-948-1666 • 704-483-2868 • Fax: 704-483-2363

# 1,000 Gallon (Mid Seam) SEPTIC TANK

Scale: Not To Scale

Revision Date: February 2008

Detail # ST-1,000-MS

## EHS Septic Permit Tracking

Application #: 11949

Permit File #: 9318B

Permit Type: Modified Plot Plan (Residential)

Soil Report:

| Site Evaluation: | Initial System | Repair System |
|---|---|---|
| Available Space: | Provisionably Suitable | Provisionably Suitable |
| System Classification: | IIIb | IVa |
| Site LTAR: | .25 | .1 |
| Site Classification: | Provisionably Suitable | |

Generate Denial Letter

Re-Generate Conditions of Improvement Permit

Conditions of Improvement Permit Issued: (•) Yes ( ) No

Date: 2/23/2021

Improvement Permit Issuance

Time Spent (hours):

☐ Change: 3.25

Use Existing System Approved: ( ) Yes ( ) No

Generate Denial Letter

Comments:

customer wanted to extend his permit because it was getting ready to expire. 2/23/21

☐ Project Completion Pending

☑ CA Approval Granted

Approval Date 7/28/2021

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

**A design for a 4 Bedroom PPBPS Septic System using pressure manifold distribution for 2545 Fox Hollow Rd, Mint Hill**
**PIN# 19702165**

**Contents:** **Page**


Information for the Installer---------- 1

Design Information
- Design Specifications---------- 2-3
- Layout Specifications---------- 4
- System Flow---------- 5

Site Plan---------- 6

Septic Tank Diagram---------- 7

Pump Tank Diagram---------- 8

Control Panel Specifications---------- 9-12

Pump Specifications---------- 13-14

Calculations---------- 15

Pressure Manifold Specifications---------- 16


**May2016**
**Design By: W. Overby**

GWS Septic System Design Review

GWS Permit #: _____ Approved Disapproved

Designer: _____ ☑ ☐

Field Verification: _____ ☑ ☐

*Permit is not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

## 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 DHH, and certification supplied by the manufacturer.
- 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
- Pumptank riser should be 6" above grade, control panel should be 12" above grade.
- Septic tank riser shall be a minimum of 6" above finished grade.
- **System specified as panel block type using p manifold distribution**
- **Repair specified as subsurface drip irrigation**
- **System trench depth specified at 34"**
- **System trenches installed on 9' minimum; 3' wide trenches**
- **See Figure 1. Septic System Layout and House Plan**

## PRESSURE MANIFOLD DOSED SYSTEM
## FOR WASTEWATER TREATMENT

| | |
|---|---|
| Applicant: | Oleg Bonar |
| Contact: | |
| Phone: | 704 201-8874 |
| County: | Mecklenburg |
| Location: | 2545 Fox Hollow Road |

| | |
|---|---|
| Source of Wastewater Flow: | 4 Bedroom Single Family Residence |
| Estimated Daily Wastewater Production: | 480 gpd |
| System Flow: | 38.36 gpm |

Design Specifications

| | |
|---|---|
| Drainfield Size: | 350 lf |
| Loading Rate: | 0.25 gpd/ft.$^2$ |
| Depth of Gravel in Trench: | n/a |
| Gravel Size: | n/a |
| Trench Depth: | 34 in |
| Trench Width: | 36 in. |
| Septic Tank Size: | 1000 |
| Pump Tank Size: | 1000 |
| Estimated Supply Line Length: | 150 lf |
| Supply Line Diameter: | 2 in. SCH 40 PVC |
| Supply Line Volume: | 26.10 gal |
| Dosing Volume: | 159.99 gal |

| | |
|---|---|
| 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: | 5.15 ft |
| Elevation Head: | 15.00 ft |
| Total Dynamic Head: | 24.40 ft |
| Threaded Union: | In Tank |
| Gate Valves: | 1 in Tank: 1 @ manifold |
| Check Valves: | In Tank |
| Anti-Siphon Hole: | n/a |
| Recommended Pump: | Myers Model M45 or County Approved Effluent Rated Pump Capable of Delivering 25 ft.of Head at 38 gpm Total Flow |

**2545 Fox Hollow Road**

**Manifold Design**

| | | |
|---|---|---|
| DESIGN FLOW: | 480 | gpd |
| SOIL APPLICATION RATE: | 0.25 gpd/ft.$^2$ | |
| TOTAL AREA TRENCH BOTTOM: | 1050 | sf |
| TOTAL LATERAL LENGTH: | 350 | lf |
| NUMBER OF FIELDS: | 1 | |
| LATERAL LENGTH REQUIRED PER FIELD: | 320 | lf |
| SUPPLY LINE LENGTH: | 150 | lf |
| TOTAL DYNAMIC HEAD: | 24.40 | gpm |
| DOSING VOLUME: | 159.99 | gal |
| PUMP TANK DRAW DOWN*: | 7.6 | in |
| SEPTIC TANK SIZE: | 1000 | |
| PUMP TANK SIZE: | 1000 | |

RECOMMENDED PUMP: Myers Model M45 or County Approved Effluent Rated Pump Capable of Delivering 25 ft.of Head at 38 gpm Total Flow

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

## 2545 Fox Hollow Road

Layout for a 4 bedroom home

May 2016

| LINE # | FLAG COLOR | BS | HI | FS | ELEV | FLAGGED LENGTH | DESIGN LENGTH |
|---|---|---|---|---|---|---|---|
| TBM | | 2.7 | | | 100.0 | | |
| INSTR. 1 | | | 102.7 | | | | |
| | | | SYSTEM | | | | |
| 1 | Blue | | | 4.60 | 98.1 | 54 | 50 |
| 2 | Pink | | | 5.30 | 97.4 | 80 | 50 |
| 3 | Red | | | 6.30 | 96.4 | 80 | 50 |
| 4 | Orange | | | 7.20 | 95.5 | 80 | 50 |
| 5 | Yellow | | | 8.10 | 94.6 | 80 | 50 |
| 6 | Blue | | | 9.20 | 93.5 | 80 | 50 |
| 7 | Pink | | | 10.20 | 92.5 | 80 | 50 |
| | | | REPAIR | | | | |

4800 sf of drip irrigation area

| | LINE LENGTH | LTAR GPD/FT | SYSTEM TYPE | REDUCTION TYPE | DIST | TRENCH DEPTH |
|---|---|---|---|---|---|---|
| SYSTEM | 350 | 0.250 | MODIFIED | 50% | MANIFOLD | 34 |
| REPAIR | 4800sf | 0.100 | DRIP | 0% | DRIP | 6 |

**Notes:**

** TBM located at front right EIP

**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

## Oleg Bonar-Fox Hollow

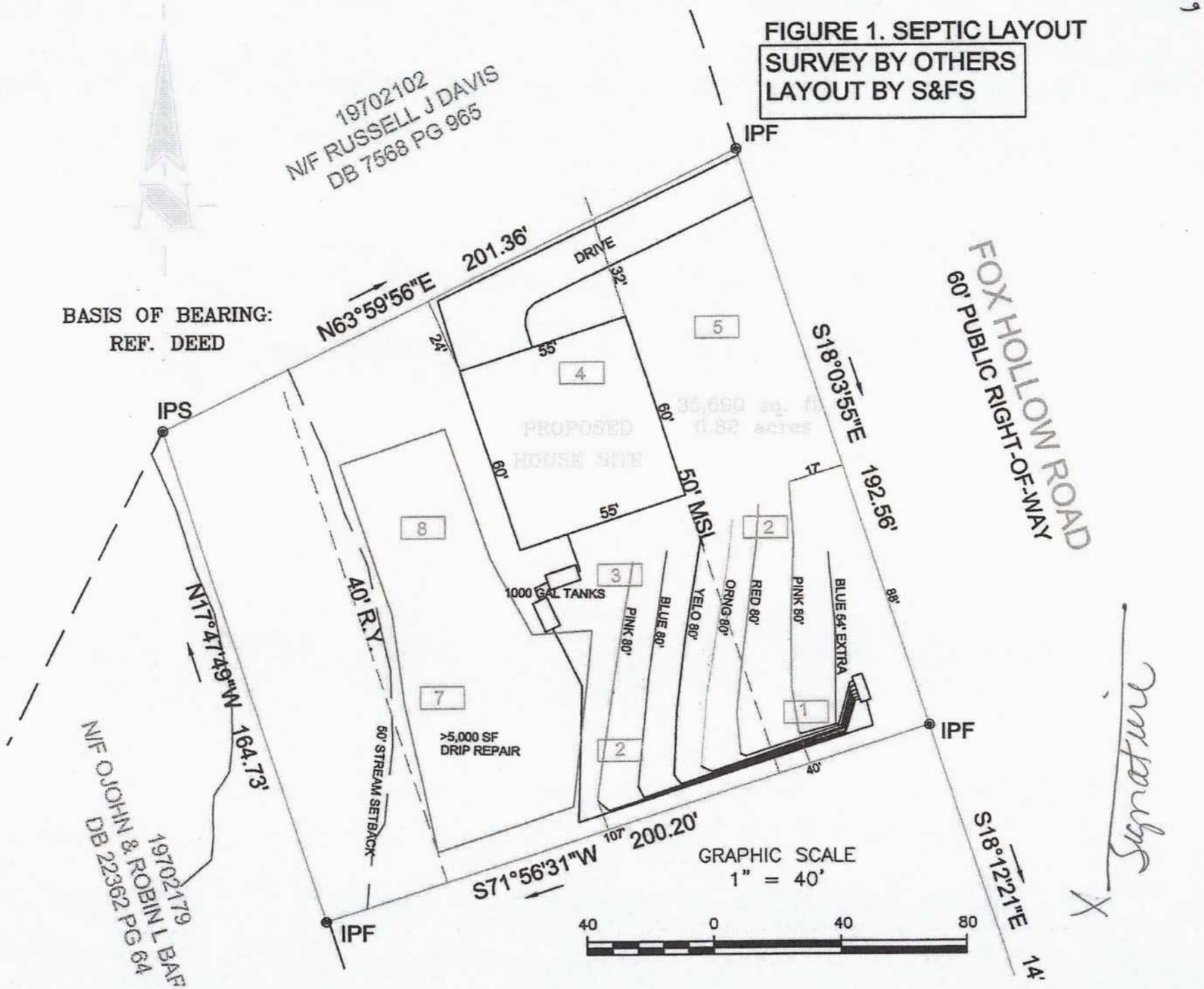
SYSTEM FLOW

DESIGN SPECIFICATIONS

| Line # | Color | Elev | Length | Hole Size | Flow/Tap | Line gpd | Line Trench Area | Flow/Line | Line LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Blue | 98.1 | 50 | SCH 80 1/2 | 5.48 | 68.57 | 150 | 0.110 | 0.46 |
| 2 | Pink | 97.4 | 50 | SCH 80 1/2 | 5.48 | 68.57 | 150 | 0.110 | 0.46 |
| 3 | Red | 96.4 | 50 | SCH 80 1/2 | 5.48 | 68.57 | 150 | 0.110 | 0.46 |
| 4 | Orange | 95.5 | 50 | SCH 80 1/2 | 5.48 | 68.57 | 150 | 0.110 | 0.46 |
| 5 | Yellow | 94.6 | 50 | SCH 80 1/2 | 5.48 | 68.57 | 150 | 0.110 | 0.46 |
| 6 | Blue | 93.5 | 50 | SCH 80 1/2 | 5.48 | 68.57 | 150 | 0.110 | 0.46 |
| 7 | Pink | 92.5 | 50 | SCH 80 1/2 | 5.48 | 68.57 | 150 | 0.110 | 0.46 |
| | total | feet = | 350 | gal/min = | 38.36 | | | | |

| | |
|---|---|
| Des. Flow | 480 |
| Pump Run to Dose 480gpd= | 12.51 |
| soil LTAR | 0.25 |

FIGURE 1. SEPTIC LAYOUT
SURVEY BY OTHERS
LAYOUT BY S&FS




Signature

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

# IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30011949** GWS File #: **9318B** Tax Parcel #: **197-021-65**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

**I. This Improvement Permit Shall:** Expire in Five (5) Years **Expiration Date (If Applicable):** 2/23/2026

Type of Installation: Residential - Modified Plot Plan Lot Number: 0

Structure Type: HOUSE Size ($ft^2$): 0 # Bedrooms: 4 Max. Occup.: 8

Building Foundation: Concrete Slab Water Supply: Municipal

**II. Initial System Type:** PPBPS (pressurized) **System Classification:** IIIb

Initial System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR ($gpd/ft^2$): | .25 | Septic Tank Size (gal): | 1000 | Pump Tank Size (gal): | 1000 |
| Trench Width (ft): | 3 | Trench Spacing (ft): | 9 | Absorption Area ($ft^2$): | 960 | Total Trench Length (ft): | 320 |
| Maximum Trench Depth (in): | 34 | Depth of Media (in): | 22 | Distribution Device: | Pressure Manifold | | |

**III. Repair System Type:** Drip Irrigation **System Classification:** IVa

Repair System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design Flow (gpd): | 480 | LTAR ($gpd/ft^2$): | .1 | Septic Tank Size (gal): | 1000 | Pump Tank Size (gal): | 1000 |
| Trench Width (ft): | 3 | Trench Spacing (ft): | 9 | Absorption Area ($ft^2$): | 960 | Total Trench Length (ft): | 320 |
| Maximum Trench Depth (in): | 6 | Depth of Media (in): | 6 | Distribution Device: | Headworks (Drip Irr. | | |

**IV. Permit Conditions/Comments:**

*(Please See the Following Page for Permit Conditions.)*

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Bryan Davenport Owner/Legal Agent: Kevin Trent
Print Name

Signature: Bryan Davenport Signature: Kevin Trent

Date Issued: 2/23/2021

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

## IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30011949** GWS File #: **9318B**

**IV. Permit Conditions/Comments:**

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This type of septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.
- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All components of the septic system must be located at least 100 ft. from all private wells (saprolite system).
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- The system must be water tested during the final inspection to verify proper operation and set system pressure.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 10 feet from any foundation drain.
- The septic system shall be located at least 15 feet from any foundation drain.

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Bryan Davenport

Signature: Bryan Davenport

Date Issued: 2/23/2021

Owner/Legal Agent: Kevin Trent
Print Name

Signature: Kevin Trent

## 1. DESIGN LOADS:

1.1 Design loads are all dead loads plus:

- A. Main floor live loads (kitchen level) ..... 40 PSF
- B. All other floors ..... 40 PSF
- C. Balconies ..... 60 PSF
- D. Decks ..... 50 PSF
- E. Suspended Garages ..... 50 PSF
  and 2000 Pound Point Load at any Location
- F. Attic floor live loading with the following:
  - i. Areas accessible by permanent stairs ..... 30 PSF
  - ii. With Storage ..... 20 PSF
  - iii. Without Storage ..... 10 PSF
- G. Roof live load ..... 20 PSF
- H. Wind load ..... 115 MPH (3 Second Gust)
- I. Conforms with Seismic Design Criteria for Zone C.
- J. Snow load ..... 20 PSF

1.2 All designs are in accordance with the 2018 North Carolina Residential Building Code, designed using ASD 2301.2.1 for all wood and steel structural elements and LRFD 2301.2.2 for all concrete structural elements..

## 2. FOOTINGS AND FOUNDATIONS:

2.1 Soil bearing capacity assumed as 2000 PSF unless noted otherwise or as determined by standard penetrometer test.

2.2 All continuous wall footings for one or two-story houses are 10" thick x 20" wide. Reinforcing in footings should be two (2) #4 bars if not noted on the plans. Reinforcement not required by Code, unless footings are on disturbed soil or compacted fill.

2.3 All interior piers are 8"x16" CMU up to a maximum height of 32". All piers over 32" high must be filled with Type S mortar. Maximum height for 8"x16" filled pier is 6'-4". Piers larger than 8"x16" are noted on the plans or as required by height. Pier cap blocks should be 8" of solid masonry.

2.4 Footings for 8"x16" piers are 20"x30"x10" unless noted otherwise. Reinforcing to be as noted on plans.

2.5 Concrete shall have a compressive strength of 3000 PSI in 28 days unless noted otherwise. No concrete shall be poured in temperatures below 40° Fahrenheit unless heat to be provided during curing for two days. The bottom of all footings must be a minimum of 12" below grade.

2.6 All rebar splices shall be a minimum of 2'-0" unless otherwise noted.

2.7 Any special foundations for structures shall be designed by a Licensed Professional Engineer upon receiving soil capacity specifications for all soil considered to affect the structure.

2.8 Chimney footing sizes are shown on the structural design drawings. Masonry or Isokern style chimney footings must be a minimum of 12" thick with 12" projection on all sides.

2.9 Foundation walls back-filled with soil and supporting structural framing shall be constructed as shown on detail sheet.

2.10 Special retaining wall designs to be shown on detail sheet.

NOTE: ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, AND BEAM SUPPORTS - WHETHER WOOD OR STEEL - CANNOT BEAR ON SHEATHNG ALONE. BLOCKING EQUAL TO OR BETTER THAN THE SPECIFIED STUDS OR COLUMN PROVIDED FOR POINT LOAD SUPPORT MUST BE CARRIED THROUGH ALL CONSTRUCTION TO THE FOUNDATION.

## 3. FRAMING CONSTRUCTION - OTHER THAN ROOF:

3.1 Crawlspace girders and band as noted on plans. Maximum clear span to be 4'-8" (6'-0" o/c spacing of piers) unless noted otherwise.

To avoid most cracking in finished hardwood floors over any girders, use the following procedure:

A. Nailing Patterns

i. All floor joists must be toe-nailed to their support girders with a minimum of 3-8d nails at each end from each side. Larger nails will split and render the toe-nail ineffective. No end-nailing through the girder or band is permitted except for temporary construction purposes.

ii. If dropped girders are used, end-lap all joists 12" minimum and side-nail each with a minimum of 3-16d nails at each end of each joist. Ledger strips should be nailed with 3-16d nails at each joist end, with nails spaced 3" apart.

iii. Nail multiple-member built-up girders with three rows of 16d nails staggered at 32" o/c, 2" down from the top, 2" up from the bottom, and at mid-depth. Use 3-16d nails at each end of each piece in the joists through the members making up the multiple-girder. This nailing pattern will insure a tight floor from outside of house to outside so that when the framing shrinks during the first heating season, the shrinkage will be uniformly distributed over the entire floor.
If the girder nailing pattern is omitted, then the shrinkage will accumulate over the girders and an objectionable crack will develop in the finished hardwood floor over the girder line.

B. At all girders where the joists change direction, install bridging at 6" o/c for a minimum of six joist spacings beyond any joist direction change. This will insure shrinkage distribution over the floor and not let it accumulate at the girder.

C. There must be wood blocking through-bolted to the steel beam with joist toe-nailed and attached to the beam with metal hangers under any hardwood floors that pass over a steel beam supporting floor joists.

## 3. FRAMING CONSTRUCTION - OTHER THAN ROOF (CONTINUED):

3.2 All framing lumber must be Spruce Pine Fir #2 unless noted otherwise.

3.3 Steel beams must have 5-2x4 jack studs under each end support unless noted otherwise on the structural plans. All studs must be nailed together with two (2) vertical rows of 16d nails at 8" o/c, unless noted otherwise.

3.4 LVL beams must have 3-2x4 jack studs under each end support unless noted otherwise on the structural plans. All studs must be nailed together with two (2) vertical rows of 16d nails at 8" o/c, unless noted otherwise.

3.5 Masonry lintels:

A. For spans up to 6 ft: Use 3½"x3½"x¼" steel angles.

B. For spans from 6 ft to 10 ft: Use 5"x3½"x5/16" steel angles.

C. For spans from 9 ft to 18 ft: Use a pair of 9 gauge wires in each of the first 3 courses of brick on a 5"x3½"x5/16" steel angle. Lap all 9 gauge wire splices 12" minimum and extend wires 12" minimum into jambs. Temporarily support steel angle before laying masonry. Shoring may be removed seven days following the installation of masonry.

D. When structural steel beams with bottom plates are used to support masonry, the bottom plate must extend the full length of the steel beam. This provides support to the ends of the plate by bearing on the adjacent masonry jambs. The beam should be temporarily shored prior to laying the masonry. The shoring may be removed five days after laying the masonry.

3.6 All masonry or stone veneer over lower roofs must have a structural steel angle lag bolted to the adjacent wall studs to prevent sliding of the veneer. A minimum of a triple rafter must be installed below masonry climbs. Thin-set veneer attachments provided by the contractor may supercede this specification. Please verify the alternative attachment procedure with the Engineer of Record.

3.7 All rafter braces must have 2 studs from the wall top plate through all floors solid to the foundation or supporting beam below. No braces shall be attached to the top wall plate without studs directly under them.

3.8 Where non-bearing parallel partitions fall between floor joists, 2x4 ladders @ 16" o/c must be placed perpendicular to the joists to support the plywood decking or double joist installed directly below wall.

3.9 All wood I-joists must be braced in accordance with the manufacturer's directions plus any details shown on the plans. Load bearing partitions, jacks, beams and column supports must be solidly blocked through the floor as the joists and plywood may not be able to carry the concentrated point loads. All point loads must be carried to the foundations with blocking and/or beams. **(NOTE: All beams and double joists, etc., have been shown for a load bearing purpose. Placement of the load carrying members shown in the plans in locations other than under the structural element they are intended to carry is the responsibility of the contractor. Exact beam locations are not to be scaled from the framing plans.)**

3.10 All two-story open rooms with full height openings must be braced to resist pressure resulting from 115 MPH design fastest-mile wind speed or as prescribed for specified wind zones per ASCE 7-98. Any special wall reinforcing shall be shown on the plans provided. Two-story open rooms must be balloon-framed with 2x6s @ 16" o/c as a minimum (no exceptions.)

3.11 Stud walls to be listed below unless otherwise noted on the structural plans:

A. Interior One & Two Story Walls (with intermediate floors)
- i. Load bearing ..... 2x4 @ 16" o/c
- ii. Non load bearing ..... 2x4 @ 16" o/c

B. Interior Three Story Walls
- i. Load bearing (2nd & 3rd Floor) ..... 2x4 @ 16" o/c
- ii. Load bearing (1st Floor) ..... 2x4 @ 12" o/c or 2x6 @ 16" o/c
- iii. Non-load bearing ..... 2x4 @ 16" o/c

C. Basement Walls
- i. Load bearing ..... 2x4 @ 12" o/c
- ii. Non-load bearing ..... 2x4 @ 16" o/c

D. Exterior Walls
Exterior walls for three stories shall be 2x6 @ 16" o/c with ½"x4'x8' OSB sheathing or C-DX plywood over entire exterior.

3.12 Headers shall be as shown on the plans.

3.13 When ceiling joists are parallel to an exterior wall and rafters bear on the exterior stud wall's top plate, tie the rafters near the top plate to the ceiling joists with 6' long 2x6 runners at 4' o/c across the top of the ceiling joists.

3.14 At all bay windows, each panel shall be nailed to each adjacent panel with 5-16d nails tied together with metal strapping nailed at four locations between floors with a minimum of 2-16d nails in each panel at each strap. This will help prevent vertical cracking in the panel joints due to horizontal oscillation of the panels.

3.15 At all stairs, every stud at each stringer must be nailed to each stringer with a minimum of 2-16d nails. This will help prevent cracking between the wallboard and the top of the base molding due to vertical oscillation of the stair stringers.

3.16 Steel pipe columns must be in contact with the supported member and continue solid to the supporting masonry or concrete foundation. No intermediate wood blocking should be used as it will crush.

## 4. FOUNDATION WALLS

4.1 All full height foundation walls are shown on structural detail sheet.

4.2 All masonry or concrete basement wall construction must be inspected by the County Building Official, Architect, or Engineer for compliance with structural specifications.

4.3 Where full-height foundation or basement walls run parallel to floor framing, blocking must be provided between joists at 3'-0" o/c for not less than six joist spacings out from wall.

4.4 Details of any earth retaining structures not attached to the house structure will be shown on separate details. (These walls may be designed only after grade conditions are known.)

## 5. ROOF CONSTRUCTION

5.1 Rafters shall be 2x6 SPF #2 @ 16" o/c for standard weight shingles except as noted. They are to be cut into hips, ridges, etc., unless noted as over-built.

5.2 Collar ties shall be 2x6 @ 48" o/c at all ridges unless noted otherwise and located a minimum 3' below the ridge. Collar ties may be closer to ridge if alternate bracing provided. Vaulted ceilings require special collar tie details or structural ridge beam. See plans as required.

5.3 A minimum of three collar ties shall be used at all ridges even if two ties must be put on one set of rafters.

5.4 All hips and ridges are a size larger than the rafters framing into them unless noted otherwise.

5.5 All hogs on ceiling joists or rafters are 8' long 2-2x6 hog troughs unless noted otherwise. Rafters may be spliced over hogs.

5.6 Gable end framing must be braced parallel to ridges with a minimum of 2x6 diagonal braces @ 6' o/c along the gable wall to the interior ceiling joists. Braces are to bear on 2-2x6 hogs and to gable wall at approximately mid-height of gable wall. Braces shall be at approximately a 45° angle. Other bracing may be used if it meets the Engineer's approval.

5.7 Carry braces to partitions or beams below. Never brace rafter hogs to 2-2x6 hogs on ceiling joists, unless shown on plans.

5.8 Ceiling joists when erected parallel to rafters must be sistered to rafters and nailed with 3-16d nails at each rafter. If a kneewall is used and ceiling joists cannot touch rafters, then rafters must be braced to the ceiling joists with 2x4 diagonal rafter ties spaced @ 48" o/c. Reverse collar ties may be used behind kneewalls.

5.9 Roof Plan Legend:

A. ⊗ or ◯ Indicates location of roof brace at rafter level.

B. ⊗ Arrow away from brace point indicates direction of roof brace to partition, beam or other brace point below.

C. ⊗ Arrow into brace point indicates a vertical or almost vertical roof brace to partition, beam or other brace point below.

D. All roof braces are 2-2x4 "T" nailed with 16d nails @ 9" o/c vertically from top to bottom. All braces longer than 10' must be braced horizontally in two directions at mid-height or be increased to 2-2x6s.

E. Maximum spacing of roof braces is to be as follows:
- i. For 2-2x6 hog ..... 6'-0" o/c
- ii. For 2-2x8 hog ..... 7'-0" o/c

## 6. WALL BRACING PER R 602.10

This structure has been analyzed by the professional engineer of record for lateral loading. It has been designed using continuous sheathing fastened to the exterior wall framing with 8d nails at 6" on center on edge and 12" on center in the field, to meet and exceed the intent of The 2018 North Carolina Residential Building Code. Where braced wall lines require additional reinforcing, engineered walls sections and hold downs have been provided.

All 800# hold downs are to be Simpson LSTA15 or MSTA15 vertical straps fastened to a minimum of a two stud pocket and the floor band.

EMF- Engineered Moment Frame




STRUCTURAL ENGINEER

SUSTAINABLE ENGINEERING & EFFICIENT DESIGNS, PLLC.

PROJECT NAME AND ADDRESS
2545 FOX HOLLOW RD.
MINT HILL, NC 28227

DRAWING TITLE
GENERAL NOTES

DATE
JUNE 20, 2021

SHEET NO.
SGN

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

# Septic System Pre-Construction Meeting Checklist

File # 9318 B App# 1949 Tax Parcel# 197-021-65

Property Owner: _____

Job Location Address: 2545 Fox Hollow Rd

City: Charlotte State: NC Zip Code: 28227

1. Does System design match facility, flow & wastewater characteristics?

   ☑ YES ☐ NO

   Comments: _____

2. Is there sufficient available space for the septic systems initial and repair areas?

   ☑ YES ☐ NO

   Comments: _____

   _____

3. Can the septic system be installed per the permit conditions and drawing on file?

   ☑ YES ☐ NO

   Comments: _____

   _____

*If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☐ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Bryan Davenport
**Authorized Agent**

3/11/22
**Date**

Robert
**Others Present**

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

# OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 93183 Permit #: 1949 Tax Parcel #: 197-021-65

Property Owner: _____

Job Location Address: 2545 Fox Hollow Rd

City: Charlotte State: NC Zip Code: 28227

**Operation Permit Issuance Date:** 4/12/22 Contractor Name: Robert Laney

Permitted Design Flow: 480 GPD Liquid Capacity of Dosing Tank: 1000 gallons

Liquid Capacity of Septic Tank: 1000 gallons Tank Manufacture J/S Effluent Pump Model: 283 Liberty 1/2hp

STB-97-NC J/S -1000 STB-71

Drainfield Installation ☐ N/A

Trench Depth: 34 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 350 feet

# of Lines: 7 @ 50 feet

Depth of Media: 22 inches (Type) PPBPS Gravity

Depth of Cover: 12 inches

Distribution Device: Pressure Man

Bed Installation *(For Repair Installations ONLY.)* ☑ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☑ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 15 feet

Distance from Property Line: 12 feet

Distance from Water Supply Source: 10 feet

Inspection Dates

Tank(s) Inspected: 3/30/22

Excavation Inspected: 3/30/22

Pump & Controls Inspected: 3/30/22

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

Installed according to consultant desgin

The undersigned has inspected the Septic Tank System described above, and certifies it has been ☑ installed ☐ altered ☐ repaired ☐ as detailed in the plot above ☑ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

**Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.**

Comments: System Classification & Type: IIIb / PPBPS V / Na / Na / Pressure

pump test done and electrical fixed 5/3/22

DENR Authorized Agent: Bryan Davenport Signature: Bryan Davenport

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

**OPERATION PERMIT for an**
**ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM**

File #: 9318 B Permit #: 1949 Tax Parcel #: 197-021-65

Property Owner: _____

Job Location Address: 2545 Fox Hollow Rd

City: Charlotte State: NC Zip Code: 28227

**OPERATION PERMIT CONDITIONS:**

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIb

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☑

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☑ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other: 4bedroom House

DENR Authorized Agent: Bryan Davenport Date: 3/11/22

Signature: Bryan Davenport

SOIL & FORESTRY SERVICES
OF THE CAROLINAS, PA

www.soilandforestryservices.com

April 22, 2022

Mecklenburg County Groundwater and Wastewater Services
Attn: Bryan Davenport
700 N. Tryon Street, Suite 211
Charlotte, NC 28202

Re: 2545 Fox Hollow Road

Dear Mr. Davenport,

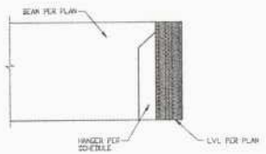
A 4-bedroom PPBPS (modified conventional-50% reduction) septic system that we designed was recently installed at 2545 Fox Hollow Road. The system requires an effluent pump with pressure manifold distribution of the wastewater. Based on our prior layout, discussion with the installer, and inspection by Mecklenburg GWS we are satisfied with the system installation.

Sincerely,

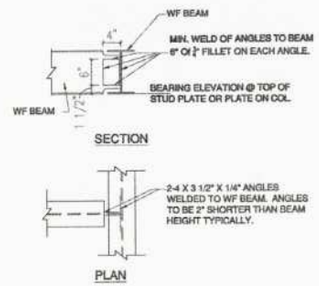
Wendell Overby

Wendell Overby
NC Licensed Soil Scientist
NC Registered Forester

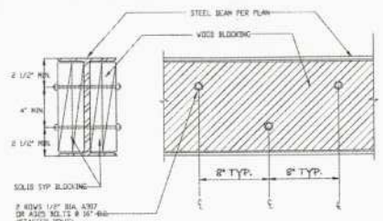




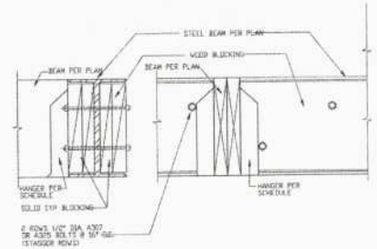

1 SD1 BEAM TO LVL CONNECTION DETAIL
SCALE= NTS




2 SD1 STEEL TO STEEL CONNECTION DETAIL
SCALE= NTS
N/A



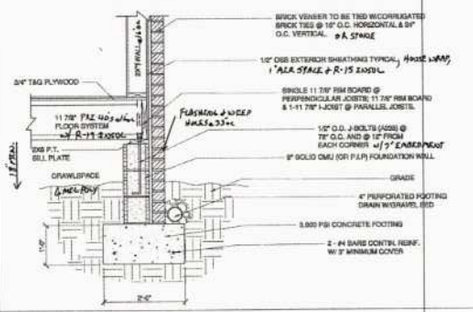

3 SD1 STEEL BEAM WEB BLOCKING DETAIL
SCALE= NTS
N/A



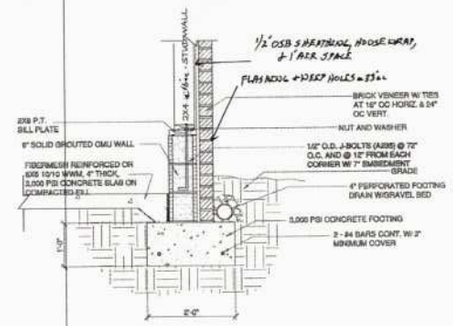

4 SD1 BEAM TO STEEL BEAM CONNECTION DETAIL
SCALE= NTS
N/A

| TYPICAL HANGERS FOR JOISTS AND BEAMS | |
|---|---|
| MEMBER | HANGER |
| 2X8 | LUS28 |
| 2X10 | LUS210 |
| 2X12 | LUS212 |
| 2-2X8 | HUS28-2 |
| 2-2X10 | HUS210-2 |
| 2-2X12 | HUS212-2 |
| 3-2X8 | LUS28-3 |
| 3-2X10 | LUS210-3 |
| 3-2X12 | HUS212-3-MAX |
| 3-1 3/4" x 9 1/4" LVL | HGUS410 |
| 3-1 3/4" x 11 7/8" LVL | HGUS412 |
| 2-1 3/4" x 14" LVL | HGUS414 |
| 3-1 3/4" x 16" LVL | HGUS416 |
| 3-1 3/4" x 18" LVL | HGUS418 |
| 3-1 3/4" x 9 1/4" LVL | HGUS5.50/10 |
| 3-1 3/4" x 11 7/8" LVL | HGUS5.50/12 |
| 2-1 3/4" x 14" LVL | HGUS5.50/14 |
| 3-1 3/4" x 16" LVL | HGUS5.50/14 |
| 3-1 3/4" x 18" LVL | HGUS5.50/16 |
| 4-1 3/4" x 9 1/4" LVL | HGUS7.50/10 |
| 4-1 3/4" x 11 7/8" LVL | HGUS7.50/12 |
| 4-1 3/4" x 14" LVL | HGUS7.50/14 |
| 4-1 3/4" x 16" LVL | HGUS7.50/14 |
| 4-1 3/4" x 18" LVL | HGUS7.50/14 |

5 SD1 HANGER SCHEDULE
SCALE= NTS




6 SD1 CRAWLSPACE FOUNDATION DETAIL
SCALE= NTS




7 SD1 GARAGE FOUNDATION DETAIL
SCALE= NTS

STRUCTURAL ENGINEER

BUILDER

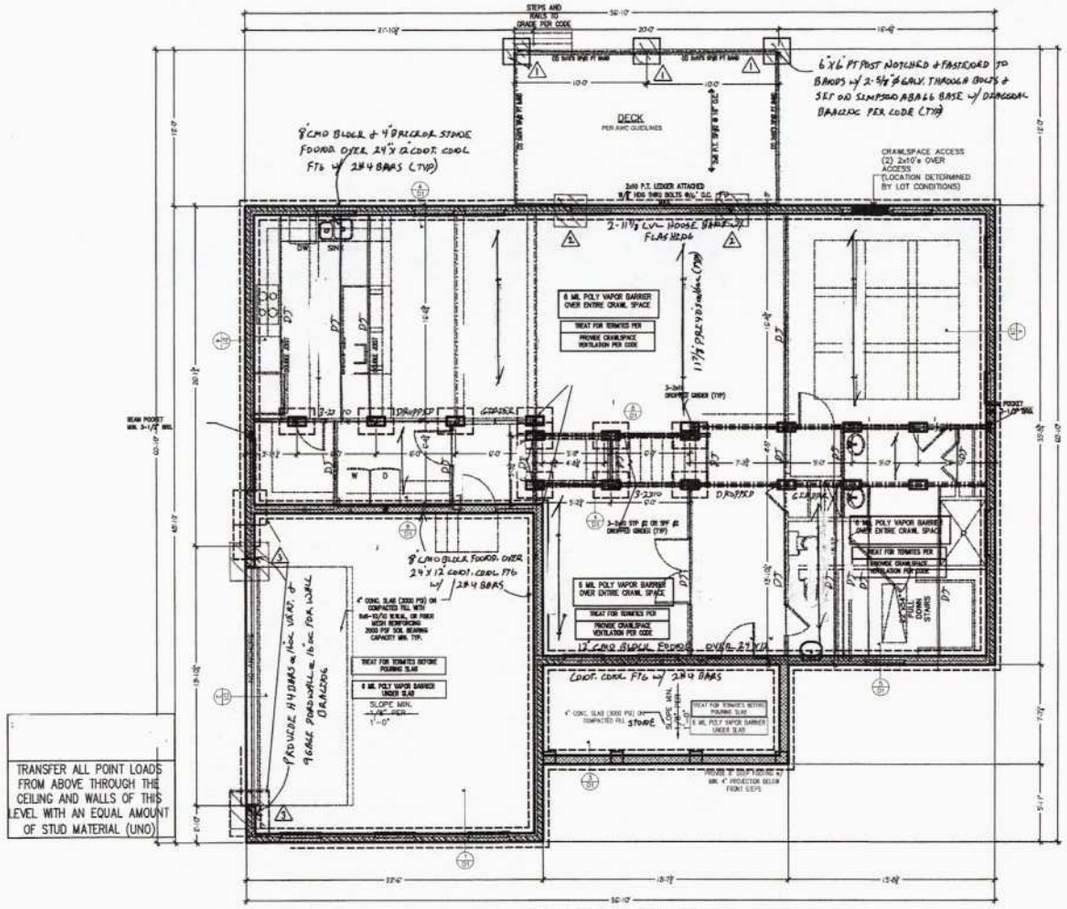
PROJECT NAME AND ADDRESS
2545 FOX HOLLOW RD.
MINT HILL, NC 28227

SEED
SUSTAINABLE ENGINEERING & EFFICIENT DESIGNS, PLLC

DRAWING TITLE
STANDARD DETAILS

DATE
JUNE 30, 2021

SHEET NO.
SD1




TRANSFER ALL POINT LOADS FROM ABOVE THROUGH THE CEILING AND WALLS OF THIS LEVEL WITH AN EQUAL AMOUNT OF STUD MATERIAL (UNO)

FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

Buildmaker Engineering & Efficient Designs, P.L.L.C.
2442 Stoneybrook Avenue
Charlotte, NC 28269
SEAL FOR STRUCTURAL ONLY

* ALL FIRST FLOOR FRAMING IS 11 7/8" PRE ENG I-JOIST @ 16" O.C. UNO
DS = DOUBLE JOIST
PROVIDE SOLID WOOD BLOCK END BEARING ALL FT LINES

FOUNDATION KEY

- ▭ - 8"x16" CMU BLOCK PIER OVER 24"x36"x10" CONCR. FTG
- △1 - 24"x24"x10" CONCR. FTG
- △2 - 30"x30"x12" CONCR. FTG w/ 3#4 BARS E.W.
- △3 - 36"x36"x12" CONCR. FTG w/ 4#4 BARS E.W.

DESIGNTAILE RESIDENTIAL
CHARLOTTE - NORTH CAROLINA 704-877-5641
www.dtlcomplans.com

2545 Fox Hollow RD

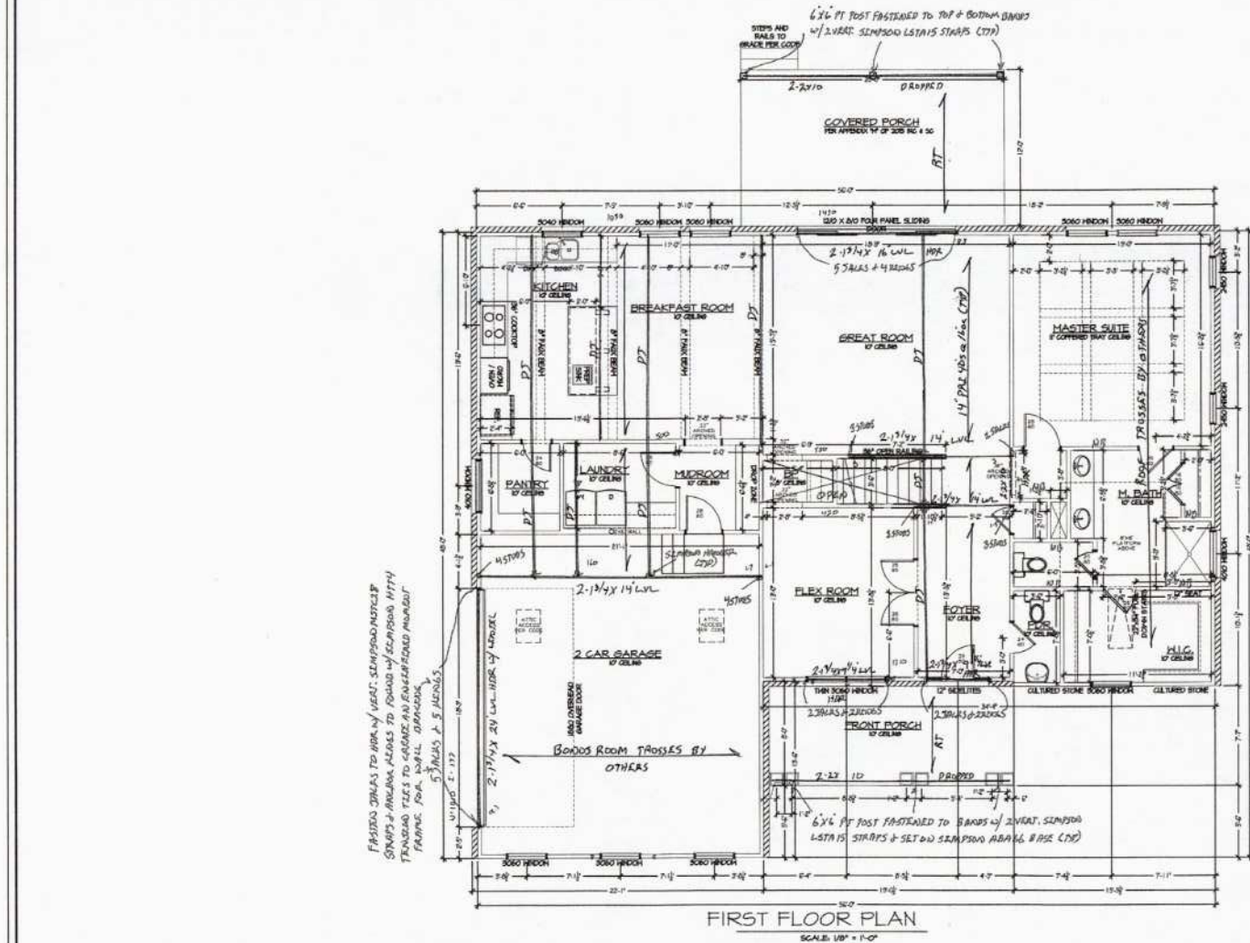
| CDBA NO. | JOB NO. | DRAWN BY: | CHECKED BY: |
|---|---|---|---|
| | 2019-22 | MWH | CAD |

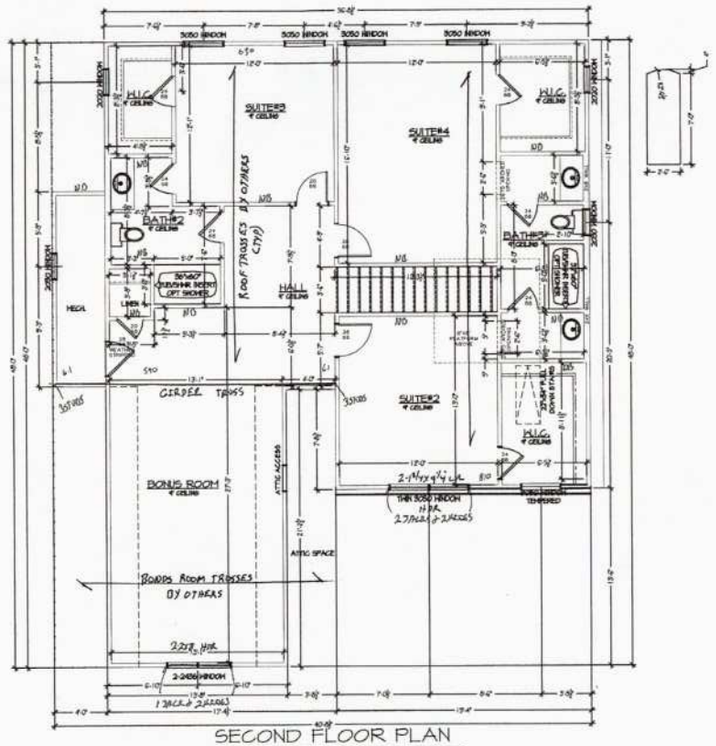
REVISIONS:

DATE: 5.26.19

SHEET NO.
S1.0

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6'x6' PT POST FASTENED TO TOP & BOTTOM BANDS w/ 2 VERT. SIMPSON LSTA15 STRAPS (TYP)
STEPS AND RAILS TO GRADE PER CODE
COVERED PORCH
PER ARTICLE VI OF DP 2015 INC 4 SC
KITCHEN
BREAKFAST ROOM
GREAT ROOM
MASTER SUITE
PANTRY
LAUNDRY
MUDROOM
M. BATH
FLEX ROOM
FOYER
2 CAR GARAGE
FRONT PORCH
BONUS ROOM TRUSSES BY OTHERS
FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"
* ALL ATTIC FRAMING & ROOF TRUSSES DESIGNED BY THE MANUFACTURER.
RT= ROOF TRUSSES
ALL SECOND FLOOR FRAMING IS 19" I-JOISTS w/ BLOCKING
DT= DOUBLE JOIST
ALL FIRST FLOOR HDR'S ARE 2-2X10 w/ 1/2"ø PLYWD SPACERS
PROVIDE SOLID WOOD BLOCKING @ STUDS UNDER ALL PT LOADS U.N.O.
PROVIDE 2 STUDS UNDER ALL DT's U.N.O.
NOTE: NO I-JOIST BRACING
WALL BRACING PROVIDED BY CONT. SHEATHING FASTENED W/ 8d NAILS @ 6" ON EDGE & 12" ON THE FIELD TO MEET OR EXCEED THE LENGTH OF REQUIRED BRACING
Residential Designer will not be responsible for human error after construction begins and assumes no liability for any modifications made to these plans by others. These plans are not to be reproduced without the written consent of the Residential Designer.
THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE CORRECT INSTALLATION OF ALL EXTERIOR FINISHES AND WEATHERPROOFING.
SQUARE FOOTAGE BLOCK
FIRST FLOOR HEATED 1,753 SQ. FT.
SECOND FLOOR HEATED 1,423 SQ. FT.
TOTAL HEATED 3,176 SQ. FT.
FRONT PORCH 153 SQ. FT.
GARAGE 514 SQ. FT.
COVERED PORCH 240 SQ. FT.
TOTAL UNDER ROOF 4,082 SQ. FT.
DESIGNTIME RESIDENTIAL
CHARLOTTE - NORTH CAROLINA 704-877-7541
www.dthomeplans.com
TAYLOR PLAN-3176
ELEVATION C
CLIENT NO.
JOB NO. 2019-22
DRAWN BY: MWH
CHECKED BY: CAD
REVISIONS
DATE: 3.1.19
SHEET NO.
S2.0
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SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

* ALL ATTIC FRAMING IS ROOF TRUSSES DESIGNED BY THE MANUFACTURER.
ALL SECOND FLOOR HDR'S ARE 2-2X8 W/ 1 JACK & 1 KING STUD.
ND = NON-BEARING
WALL BRACING PROVIDED BY CONT. SHEATHING FASTENED W/ 8d NAILS @ 6"OC ON EDGE & 12"OC IN THE FIELD TO MEET & EXCEED THE INTENT OF SECTION R602.10.3

Sustainable Engineering & Efficient Designs, PLLC
3648 Glenwood Avenue
Raleigh, NC 27612
SEAL FOR STRUCTURAL ONLY

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CHARLOTTE - NORTH CAROLINA 704-877-4541
www.dtlsmmplans.com

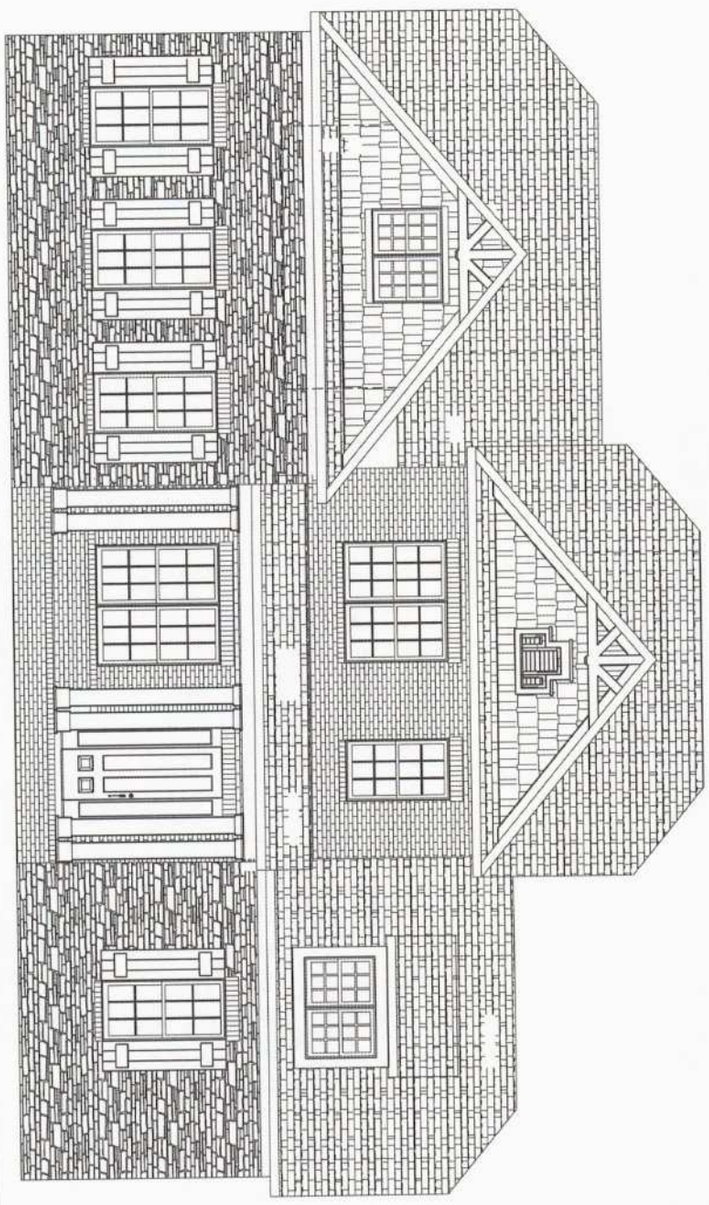
# TAYLOR PLAN-3176
## ELEVATION C

COMM. NO. 2019-22
SCALE: 1/8"
DRAWN BY: MWH
CHECKED BY: CAD
REVISIONS:
DATE: 3.1.19

SHEET NO. S3.0

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TAYLOR PLAN
ELEVATION C
DESIGNTAGE RESIDENTIAL
CHARLOTTE - NORTH CAROLINA
www.dthomeplans.com
JOB NO. 2019-22
DRAWN BY MMH
CHECKED BY CAD
DATE: 5.26.19
SHEET NO. S4.0
INSTALL X MINIMUM OF (2) 2X4 JACK STUDS BELOW ANY GIRDER TRUSS BEARING LOCATION
ROOF PLAN
SCALE: 1/8" = 1'-0"
ROOF TRUSSES @ 24" MAX O.C. PER MANUFACTURER
* ALL ROOF FRAMING IS TRUSSES DESIGNED BY THE MANUFACTURER.
BB = BEAN BLOOD



| | | | | | |
|---|---|---|---|---|---|
| SHEET NO. A0.0 | DATE 5.26.19 | REVISIONS | COMM. NO. JOB NO. 2019-22 DRAWN BY: MWH CHECKED BY: CAD | 2545 Fox Hollow RD | DESIGNTIME RESIDENTIAL PROFESSIONAL HOME DESIGN CHARLOTTE - NORTH CAROLINA 704-877-3641 www.dthomeplans.com |

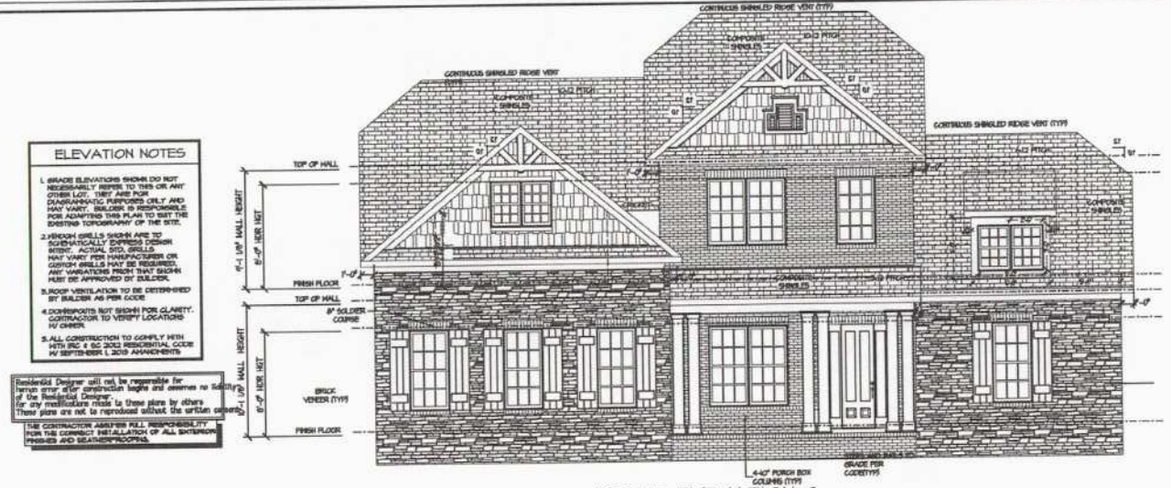
C:\Users\Mwhite\Desktop\2545 Fox Hollow RD.pln

## ELEVATION NOTES

1. GRADE ELEVATIONS SHOWN DO NOT NECESSARILY REFER TO THIS OR ANY OTHER LOT. THEY ARE FOR DIAGRAMMATIC PURPOSES ONLY AND MAY VARY. BUILDER IS RESPONSIBLE FOR ADAPTING THIS PLAN TO SUIT THE EXISTING TOPOGRAPHY OF THE SITE.
2. FINISH GRILLS SHOWN ARE TO SCHEMATICALLY EXPRESS DESIGN INTENT. ACTUAL SIZE, GRILLS MAY VARY PER MANUFACTURER OR CUSTOM GRILLS MAY BE REQUIRED. ANY VARIATIONS FROM THAT SHOWN MUST BE APPROVED BY BUILDER.
3. ROOF VENTILATION TO BE DETERMINED BY BUILDER AS PER CODE
4. DOWNSPOUTS NOT SHOWN FOR CLARITY. CONTRACTOR TO VERIFY LOCATIONS W/ OWNER.
5. ALL CONSTRUCTION TO COMPLY WITH WITH IRC & SC 2012 RESIDENTIAL CODE W/ SEPTEMBER 1, 2019 AMANDMENTS

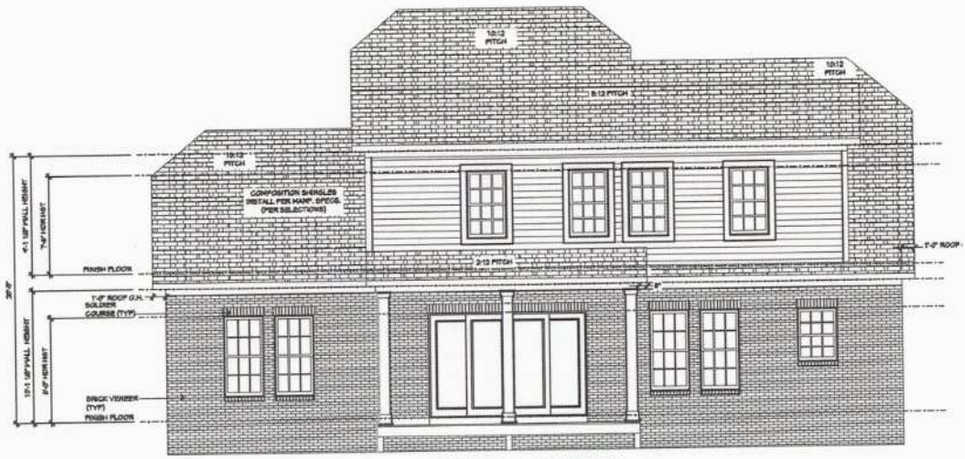
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THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE CORRECT INSTALLATION OF ALL EXTERIOR FINISHES AND WEATHERPROOFING.




FRONT ELEVATION C

SCALE: 1/8" = 1'-0"




REAR ELEVATION

SCALE: 1/8" = 1'-0"

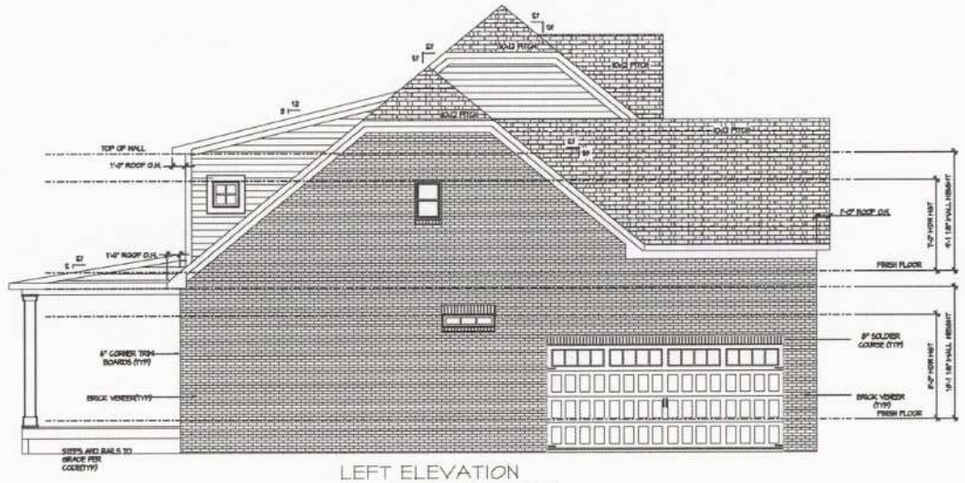
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# TAYLOR PLAN-3176
# ELEVATION C

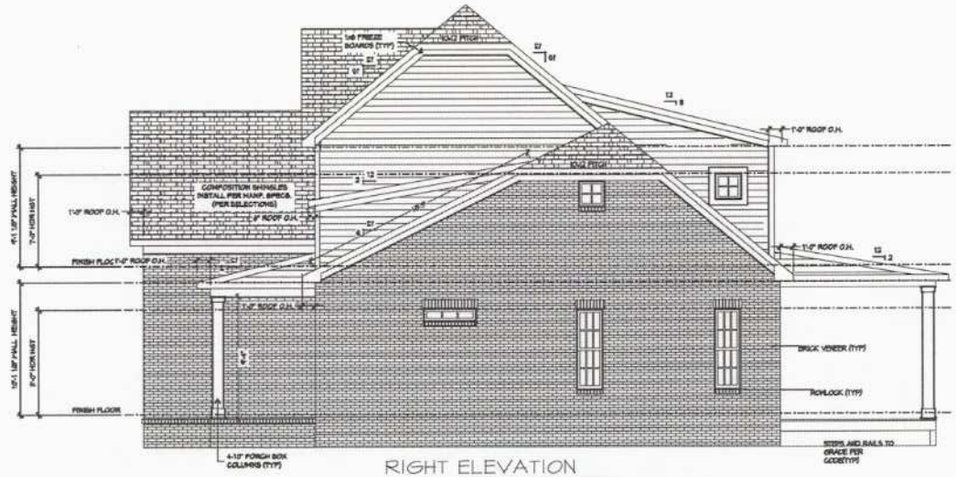
JOB NO. 2019-22
DRAWN BY: MMH
CHECKED BY: CAD
REVISIONS:
DATE: 3.1.19

SHEET NO. 4.0




LEFT ELEVATION

SCALE: 1/8" = 1'-0"




RIGHT ELEVATION

SCALE: 1/8" = 1'-0"

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# TAYLOR PLAN-3176
## ELEVATION C

| | |
|---|---|
| CLIENT NO. | |
| JOB NO. | 2019-22 |
| DRAWN BY: | MWH |
| CHECKED BY: | CAD |

REVISIONS

DATE: 3.1.19

SHEET NO.

5.0