

WAKE COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES WASTEWATER PERMIT

NO PERMIT(S) FOR CONSTRUCTION, LOCATION OR RELOCATION ACTIVITY SHALL BE ISSUED UNTIL AN
AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION AUTHORIZATION HAS BEEN ISSUED
***PERMIT VOID IF NOT IN COMPLIANCE WITH ZONING REGULATIONS AND/OR IF SITE IS ALTERED OR
INTENDED USE CHANGED***

OPERATIONS PERMIT

PERMIT # HWP-135507-2024 **APPLICATION DATE:** 11/04/2024 **BLDG. PERMIT#:** RBPR-130043-2024
PIN: 1798178244 **RECORDED:** Yes
TOWNSHIP: 09 - Little River **JURISDICTION:** Wake County **ZONING:** R-30
APPLICANT: Genesis Building Company Inc
Joseph Procopio, Jr.
1600 Heritage Commerce Ct. STE 109
BUSINESS PHONE: (919) 263-3000
HOME PHONE:
MOBILE PHONE: (919) 899-5151
HD USE: 101A CONVENTIONAL ONE-FAMILY HOUSE **EXISTING USE:**
SITE ADDRESS: 4908 HIDDEN PASTURE WAY
SUBDIVISION: LENNOX MANORS SUB **LOT:** 8 **ACRES:**
DIRECTIONS: 401, right on 96, left on Martin Rd., left on Lockleair Rd, right on Hopkins Chapel, left on Gay Town Rd, Left on Hidden Pasture Way

Systems defined as either type III-b, III-g with a pump, IV, V or VI, in accordance with the North Carolina administrative code 15A NCAC 18a .1961, table V as adopted by reference in the "Regulations Governing Wastewater Treatment Dispersal Systems in Wake County", requires Wake County Environmental Services to conduct periodic inspections of the system type pursuant to 15A NCAC 18a. 1961 (j). Fees for these inspections will be charged as per the approved Fee Schedule. In addition, all systems are to be operated and maintained as specified in 15A NCAC 18A .1961. This permit is based in part on information provided by the homeowner and/or his/her representative in the application submitted for this permit. The Environmental Health Specialist is not responsible for false or misleading information contained in the application. The environmental health specialist is also not responsible for concealed conditions on the property or for statements in this report that may have resulted from false or misleading statements provided to him/her in the application. Neither Wake County nor the Environmental Health Specialist warrants that the septic tank system will continue to function satisfactorily in the future or that the water supply will remain potable.

OPERATION PERMIT VALID FOR: No Expiration

INSTALLED BY: BRANTLEY, CORY - 1036 - IV

PROPRIETARY SYSTEM: IQ4 - Infiltrator Quick 4 Standard **PRETREATMENT SYSTEM:**

SYSTEM TYPE INSTALLED: II B

OPERATION PERMIT: STATUS: Issued

ISSUED BY: Caroline Suggs

ISSUED DATE: 03/24/2025

SEPTIC TANK: David Brantley & Sons - STB-323 - 1250 gallons **DATE OF MANUFACTURE:** 12/12/2024 **FILTER:** GAG SIM/TECH - STF-110

GREASE TRAP:

DATE OF MANUFACTURE:

FILTER:

DOSING PUMP TANK:

DATE OF MANUFACTURE:

FILTER:

CC1: **ETM1:**

CC2: **ETM2:**

RECIRCULATION TANK:

DATE OF MANUFACTURE:

CC1: **ETM1:**

CC2: **ETM2:**

SEPTIC TANK ELEVATION: 4.31

GREASE TRAP ELEVATION:

DOSING PUMP TANK ELEVATION:

RECIRCULATION TANK ELEVATION:

DISTRIBUTION DEVICE ELEVATION: 5

INSTALLED TRENCH DEPTH	INSTALLED AGGREGATE DEPTH	INSTALLED TRENCH LENGTH	INSTALLED TRENCH BOTTOM ELEVATION
19	12	122	6
19	12	106	7.17
19	12	90	7.83
19	12	86	8.79

ACTUAL PRESSURE HEAD:

ACTUAL FLOW RATE:

ACTUAL DOSE VOLUME: 0

SPECIFIC OPERATION REQUIREMENTS:

- System installed for a 4 bedroom residence having 480 gallons per day
- Site serviced by private well water supply
- Future repair is a IIIB system type with a 19" max trench depth and a 0.30 LTAR
- IP & CA permits issued pursuant to 15A NCAC 18E using AOWE submittal packet that meets the requirements of G.S. 130A-335 (a2), (a3), & (a5)

ISSUED BY:

Caroline Suggs RTHS

DATE: 03/24/2025



SITE PLAN APPROVED BY

WAKE COUNTY N.C. P.D.I.

Tiya Shields

03/19/2025 4:12:57 PM

PRELIMINARY PLOT PLAN FOR

GENESIS BUILDING

LOT 8, LENNOX MANOR

4908 HIDDEN PASTURES WAY

REF: B.M.2024, PG. 881

LITTLE RIVER TOWNSHIP

WAKE COUNTY, NORTH CAROLINA

JULY 22, 2024

REVISED OCTOBER 23, 2024

REVISED OCTOBER 31, 2024

REVISED MARCH 10, 2025

ZONED R-30

SCALE 1"=100'

HWP-135507-2024
AS BUILT

NOTE:
-REVISION DATE OF OCTOBER 23, 2024 TO REVISE HOUSE PLACEMENT. NO ADDITIONAL SURVEY WORK DONE.
-REVISION DATE OF OCTOBER 31, 2024 TO ADD DISTURBED ACREAGE. NO ADDITIONAL SURVEY WORK DONE.

N/F
DONNA D. BAILEY
D.B. 13630, PG. 34
B.M. 2009, PG. 730
PIN #1798-17-3968

FLOOD
HAZARD
SOILS

7
LENNOX MANORS
B.M. 2024, PG. 881

N/F
EDDIE RAY & GRETCHEN
ANN BAMBERGER
D.B. 2271, PG. 364
PIN #1798-27-1293
PIN #1798-27-0271

REFERENCE LINE ONLY
MOCCASIN CREEK IS
PROPERTY LINE

100' NEUSE RIVER
RIPARIAN BUFFER
MEASURED 50' FROM
TOP OF BANK

175,455 S.F.
4.028 AC.

GAY TOWN ROAD 60' PUBLIC R/W N.C.S.R. 2311

Required Setbacks

Front 30
Side 10
Rear 30
Corner

IMPERVIOUS SURFACE TABLE

HOUSE	3,237 S.F.
DECK	263 S.F.
DRIVEWAY	2,164 S.F.
SIDEWALKS	299 S.F.
POOL APRON	1,600 S.F.
MISC./UTILITIES	36 S.F.
TOTAL IMPERVIOUS AREA	7,599 S.F.
MAX IMPERVIOUS ALLOWED	17,913 S.F.

THIS SURVEYOR DOES NOT
WARRANTY THE ACCURACY
OF ARCHITECTURAL DIMENSIONS.
THEY ARE TO BE VERIFIED BY
THE CONTRACTOR.

CMP

Professional Land Surveyors
C-1525

333 S. White Street
Post Office Box 1253
Wake Forest, N.C. 27588
(919)556-3148

NOTES:
-THIS PLAN DOES NOT REFLECT AN
ACTUAL SURVEY. IT IS A PRELIMINARY
PLAN AND SHOULD BE USED FOR ITS
INTENDED PURPOSE ONLY.
-NOT FOR RECORDATION, CONVEYANCES,
OR SALES.



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

County: _____ Wake _____

Pre-Construction Conference Required: Yes ☐ No ☒

PIN/Lot Identifier: _____ 1798178244, Lennox Manors lot 8 _____

Issued To: _____ Genesis Building Company _____

Property Location: _____

AOWE/PE Plans/Evaluations Provided: Yes ☒ No ☐ If yes, name and license number of AOWE/PE: _____ Jason Hall, AOWE #10004E _____

Facility Type: _____ Single Family, 4-Bedroom _____

Number of bedrooms: 4 Number of Occupants: ≤8 Other: _____

☒ New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use

Basement? ☐ Yes ☒ No Basement Fixtures? ☐ Yes ☒ No

Crawl Space? ☒ Yes ☐ No Slab Foundation? ☐ Yes ☒ No

Type of Wastewater System* IIb, Gravity to Serial (Initial) _____ IIIbg, Pressure Manifold (Repair) _____

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

Design Daily Flow: 480 GPD Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process WW

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

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

Type of Water Supply: ☒ Private well ☐ Public well ☐ Shared well ☐ Municipal Supply ☐ Spring ☐ Other: _____

Installation Requirements/Conditions

Septic Tank Size: 1200 gallons Total Trench/Bed Length: 400 feet Trench/Bed Spacing: 9 feet on center

Trench/Bed Width: 36 inches LTAR: .3 gpd/ft² Usable Depth to LC (Initial)*: 35 ^{*Limiting condition}

Additional Soil Cover: _____ inches Slope Corrected Maximum Trench/Bed Depth*: 19 inches ^{*Measured on the downhill side of the trench}

Pump Tank Size (if applicable): _____ gallons Requires more than 1 pump? ☐ Yes ☐ No

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

Distribution Method: ☒ Serial ☐ D-Box or Parallel ☐ Pressure Manifold(s) ☐ LPP ☐ Other: _____

Artificial Drainage Required: Yes ☐ No ☒ 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 ☒ No Declaration of Restrictive Covenants: ☐ Yes ☒ No

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

Management Entity Required: ☐ Yes ☒ No Minimum O&M Requirements: _____

Permit conditions:

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: Jason Hall

AOWE/PE Signature: _____

Date: 8/7/24

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

See attached site sketch



This Section for Local Health Department Use Only

Initial submittal received: 11/4/2024 by JLA
Date 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: James Adcock Date of Issuance: 11/4/2024

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: 11/3/2029



**Wake County Health and Human Services
Onsite Water Protection**

Approved by: _____

Date: 11/4/2024

***See attached site** This Construction Authorization is issued pursuant to G.S.

130A-335(a2) and (a5) using the signed and sealed AOWE/PE plans attached here. Applicant is responsible for adhering to all State and Local rules, regulations and laws. 11/4/2024
2CF-24.1

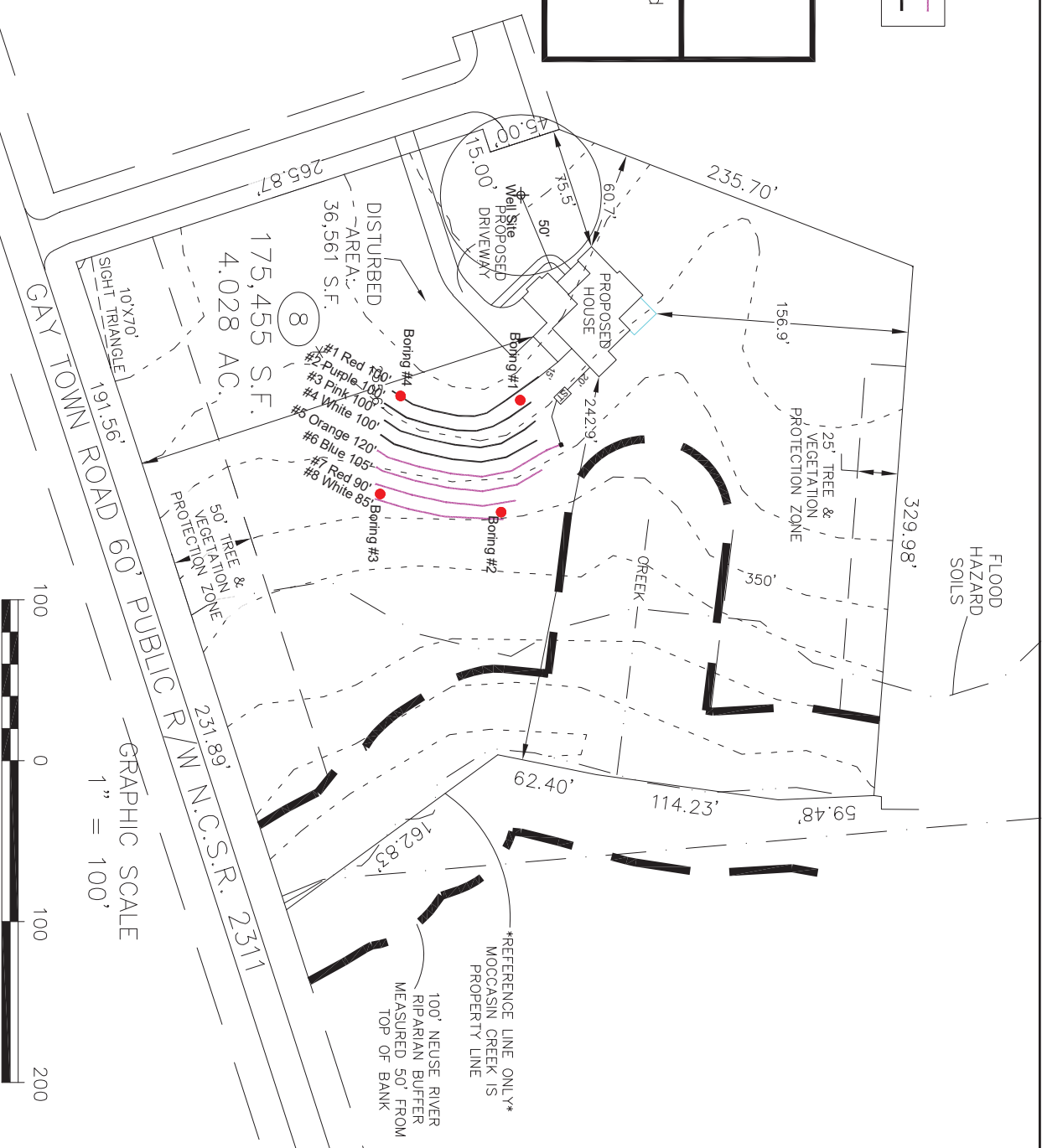
System: —
Repair: —

System: Gravity to serial
Lines: 5–8, (400')
Accepted Status System
0.3 Soil LTAR
19" TB, low side of trench

System: Pressure Manifold
Lines: 1–4, (400')
Accepted Status System
0.3 Soil LTAR
19" TB, low side of trench

*Keep Tanks and Drain lines 10'
from property lines.
*Not a Survey

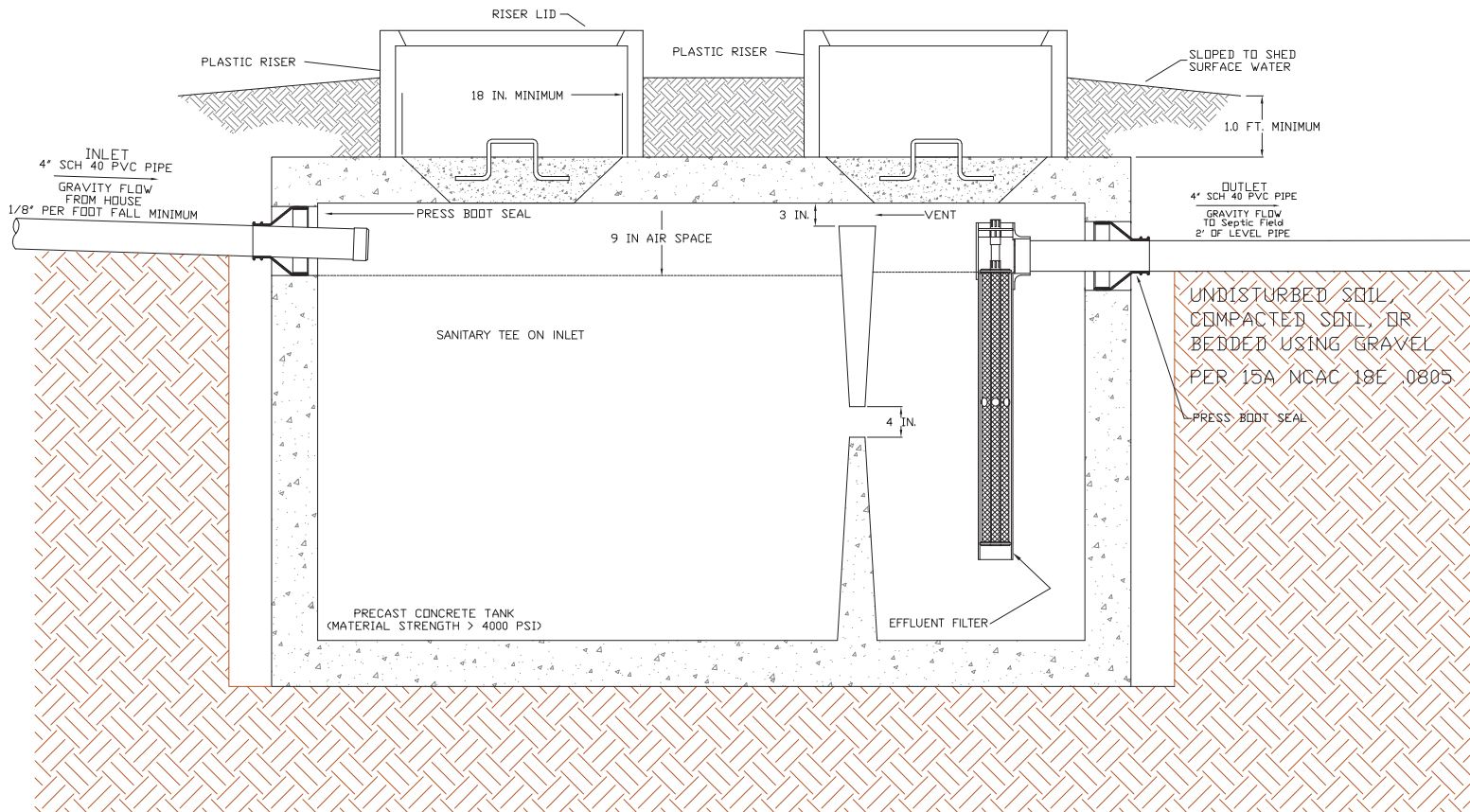
*Keep supply lines >5' from property lines.
*Some lines are flagged longer in the field than
lengths indicated above.



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703

4-Bedroom Layout
Lennox Manors lot 8
Wake County, North Carolina

Job# : 4371
Drawn By : JH
Date : 2/12/24
Revision: 8/7/24
Revision: 10/31/24



1200 GAL SEPTIC TANK SCHEMATIC
NOT TO SCALE

NOTES

- ALL TANKS SHALL BE LEAK TESTED (IN OCCURANCE TO RULE 15A NCAC 18E .0805) WHEN INSTALLED UNDER THE FOLLOWING CONDITIONS
 - when a Soil Wetness Condition (SWC) is present within four feet of the elevation of the top of a mid-seam pump tank;
 - with advanced pretreatment when required in the RWTS or PIA Approval;
 - when required in the approved plans and specifications for a wastewater system designed by a PE;
 - when the tank is constructed in place; or
 - as required by the authorized agent based upon site or system specific conditions, such as misaligned seams, exposed reinforcement, or damage observed that may have occurred during transport or installation.
- ALL TANKS MUST BE APPROVED FOR USE BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL HEALTH (DEH).
- INVERTS SHOWN ARE APPROXIMATE. THE INSTALLER SHALL FIELD CONFIRM PRIOR TO CONSTRUCTION.
- ALL HARDWARE INSTALLED INSIDE OF TANKS SHALL BE OF STAINLESS STEEL.
- TANK DIMENSIONS VARY BY MANUFACTURER.
- DRAWDOWN WILL VARY WITH TANK DIMENSIONS.
- NO ELECTRICAL SPLICES SHALL BE MADE INSIDE THE PUMP TANK.

PL-68 Filter and Tee

PL-68 is much more than just an effluent filter. The housing can also be used as an inlet baffle (tee) or an outlet baffle. The housing is designed to accept Polylok's snap in gas deflector to deflect gas bubbles away from the tee and to keep the solids in the tank.

Features:

- Offers 68 linear feet of 1/16" filter slots, which significantly extends time between cleaning.
- Accepts 3/4" PVC handle.
- Locks in any 360° position when used with PL-68 Tee.
- PL-68 Housing can be used as an inlet or outlet tee.
- Gasket prevents bypass.

PL-68 Installation:

Ideal for residential waste flows up to 800 gallons per day (GPD). Easily installs in any new or existing 4" outlet tee.

1. Locate the outlet of the septic tank.
2. Remove the tank cover and pump tank if necessary.
3. Glue the filter housing to the outlet pipe, or use a Polylok Extend & Lok if not enough pipe exists.
4. Insert the PL-68 filter into tee.
5. Replace and secure the septic tank cover.

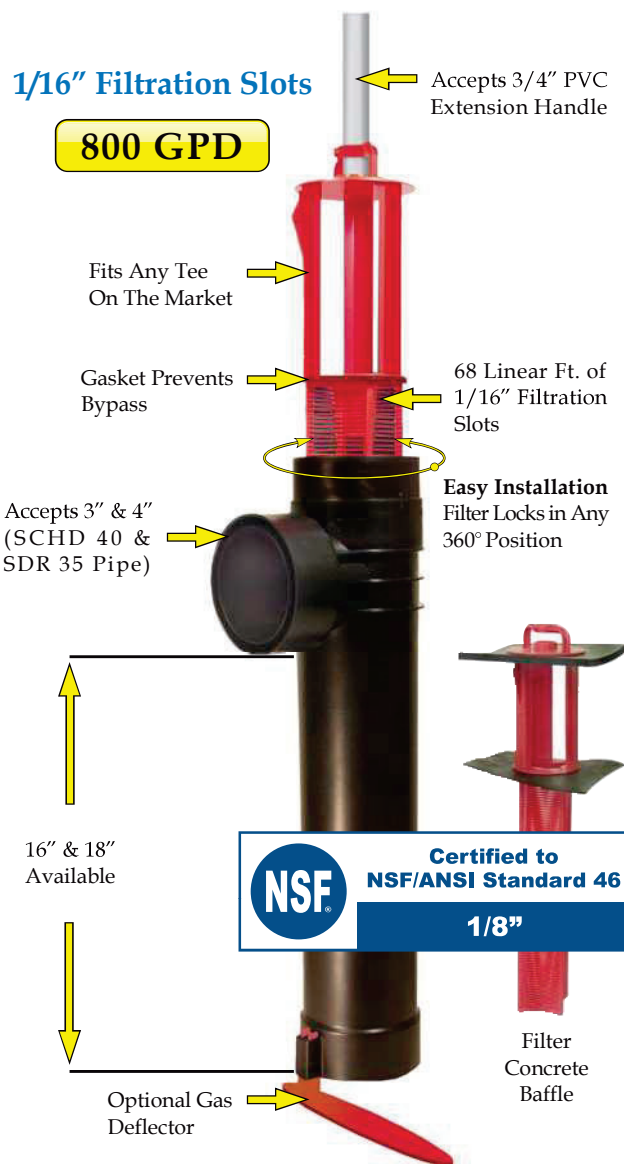
PL-68 Maintenance:

The PL-68 Effluent Filter will operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped, or at least every three years.

1. Do not use plumbing when filter is removed.
2. Pull PL-68 out of the tee.
3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
4. Insert filter back into tee/housing.

Related Products:

PL-68 Filter Concrete Baffle
Extend & LokTM



Extend & LokTM
Easily installs
into existing tanks.



Spacer Bushing
4" SCHD 40
to SDR 35



Spacer Bushing
4" SCHD 40
to 110mm Pipe



2" Extender



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110, Wake Forest, NC 27587
Office Number: 919-569-6704

Acknowledgment of Subsurface wastewater evaluation and septic design by Central Carolina Soil Consulting, PLLC. for _____ Lennox Manors lot 8 _____, for issuance of an IP and CA.

For Improvement Permit (IP) issuance:

“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).”

For Construction Authorization (CA) issuance:

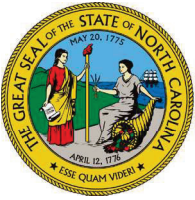
“The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5) and (a6).”

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance G.S. 130A-335(a2), (a3), (a5) and (a6).

Owner: _____ Joseph D. Procopio _____

Owner's representative: _____ *Joseph D. Procopio* _____

Date: _____ 11/4/2024 _____



NC DEPARTMENT OF
**HEALTH AND
HUMAN SERVICES**

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

Submittal Includes: ☒ (a2) Improvement Permit ☒ (a2) Construction Authorization ☐ Fee \$ _____

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

County: _____ Wake
PIN/Lot Identifier: _____ 1798178244
Issued To: _____ Genesis Building Company
Property Location: _____ 4908 Hidden Pastures Way, Zebulon
Subdivision (if applicable) _____ Lennox Manors Lot #: _____ 8 Block: _____ Section: _____
LSS Report Provided: Yes ☒ No ☐
If yes, name and license number of LSS: _____ Jason Hall, NC LSS #1248
New ☒ Expansion ☐ System Relocation ☐ Change of Use ☐
Facility Type: _____ Single Family, 4-Bedroom
Number of bedrooms: _____ 4 Number of Occupants: _____ ≤8 Other: _____
Design Wastewater Strength: ☒ Domestic ☐ High Strength ☐ Industrial Process Wastewater
Proposed Design Daily Flow: _____ 480 GPD Proposed LTAR (Initial): _____ .3 Proposed LTAR (Repair): _____ .3
Proposed Wastewater System Type*: _____ IIb, Gravity to Serial (Initial) Pump Required: ☐ Yes ☒ No ☒ May be required
Proposed Wastewater System Type*: _____ IIIbg, PM to Accepted (Repair) Pump Required: ☒ Yes ☐ No ☐ May be required
**Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII*
Effluent Standard: ☒ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II ☐ RCW
Saprolite System (Initial): ☐ Yes ☒ No Saprolite System (Repair): ☐ Yes ☒ No
Fill System (Initial): ☐ Yes ☒ 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 ☒ 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)*: _____ 34 Usable Depth to LC (Repair)*: _____ 35 ** Limiting Condition*
Max. Trench Depth (Initial)*: _____ 19 Max. Trench Depth (Repair)*: _____ 19 ** Measured on the downhill side of the trench*
Artificial Drainage Required: ☐ Yes ☒ No If yes, please specify details: _____
Type of Water Supply: ☒ Private well ☐ Public well ☐ Shared well ☐ Municipal Supply ☐ Spring ☐ Other: _____
Drainfield location meets requirements of Rule .0508: Yes ☒ No ☐ Drainfield location meets requirements of Rule .0601: Yes ☒ No ☐
Permit valid for: ☒ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Licensed Soil Scientist Print Name: Jason Hall

Licensed Soil Scientist Signature: _____ Date: _____ 8/7/24

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

See attached site sketch



This Section for Local Health Department Use Only

Initial submittal received: 11/4/2024 by JLA
Date 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: James Adcock Date: 11/4/2024

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: 11/3/2029



**Wake County Health and Human Services
Onsite Water Protection**

Approved by: _____

Date: 11/4/2024

***See attached** 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. Applicant is responsible for adhering to all State and Local rules, regulations and laws.



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587

Office Number: 919-569-6704

August 7, 2024

Job #4371-8

Genesis Building Company
Joe Procopio
PO Box 1469
Wake Forest, NC 27588

RE: Preliminary soil/site evaluation for single family wastewater approval at Lennox Manors Subdivision, Lot 8 (4-bedroom) in Wake County pursuant to and meets the requirements of G.S. 130A-335(a2)."

Dear Mr. Procopio:

Central Carolina Soil Consulting, PLLC conducted a preliminary soil evaluation on the aforementioned lot to determine the areas of provisionally suitable soils that are suitable for subsurface wastewater disposal systems (conventional, Accepted & Innovative). **"The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."** The soil/site evaluation was performed using auger borings in August 2024, under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15A NCAC 18E "Wastewater Treatment and Dispersal Systems". From this evaluation, CCSC laid out and located the septic layout and gps'd for site plan drawing purposes. **Please note that the lot lines must be clearly marked by your surveyor prior to system installation by your installer to verify all setbacks before digging.**

The lot is proposed to have a 4-bedroom system for the house. A septic system field layout was completed based on the house location and property lines surveyed in the field.

The proposed Initial system for the house is a gravity to serial distribution using lines 5-8 totaling 400 feet of accepted status product (EZ-Flow or Chambers). The repair system for the house is a pressure manifold distribution to PPBSP using lines 1-4 totaling 400 feet accepted product. The septic tank for the house should be minimum 1,200 gallons with risers. The septic tank should also have pressed in rubber boots on the outlet of the tank, along with having secondary lids on all the openings.

Based on the findings during the field evaluation, the area on the attached map has at least 35 inches (initial) and 34 inches (repair) of provisionally suitable soils for a modified conventional septic system. The assigned LTAR for the site is 0.3 gpd/ft² with a maximum depth of 19 inches for the initial system installation of the drain lines due to slope correction. The assigned LTAR for the site is 0.3 gpd/ft² with a maximum depth of 19 inches for the repair system installation of the drain lines due to slope correction.

Septic Installation:

The septic system for the lot should be installed during dry soil conditions (no rain events within 72 hours). The septic system should be installed on contour while maintaining all required setbacks. **Lot lines must be clearly marked by your surveyor prior to system installation so your installer can verify all setbacks before digging.**

Setbacks: (see septic design page for locations)

- **Septic and Pump Tanks** (see septic design)
 - 10' minimum from property lines
 - 5' minimum from house
- **Septic Lines** (see septic design)
 - 10' minimum from property lines
 - 5' minimum from house
- **Manifold's and D-Box's** (see septic design)
 - 10' minimum from property lines
- **Supply Lines** (see septic design)
 - 5' minimum from property lines
- **Utilities**
 - Water (10' minimum for all septic components)
 - Power, cable, internet, etc. (5' minimum setback)

Grading:

No grading should be completed within the initial and repair septic areas that change the natural grade of the area. There should be no cutting or filling within the septic areas as well. When grading the lot, no cuts of 2' or greater should be within 15' of the septic areas. If a cut is required near the septic area, keep the cut around 6-8 inches in depth.

HOUSE:

- Initial System: gravity to serial, lines 5-8 totaling 400' (see layout)
- Repair System: PM to accepted lines 1-4 totaling 400' (see layout)
- 480 gal/day flow rate (4-bedroom)
- 1,200 gallon septic tank with risers and pressed in rubber boots on the outlet ends and a secondary lid in each tank opening
- 19" max trench depth for Initial System
- 19" max trench depth for Repair System
- 0.3 LTAR for Initial
- 0.3 LTAR for Repair
- No grading/filling septic areas
- No cuts >2' within 15' of septic areas
- Keep tanks and drain lines 10' from property lines
- Keep supply line >5' property lines
- Install in dry soil conditions (No rain events within 72 hours)
- Maintain natural contours when clearing the lot

This letter discusses the location of provisionally suitable soils for subsurface wastewater disposal systems and does not guarantee the future function of any wastewater system on sites. Central Carolina Soil Consulting, PLLC is a professional consulting firm specializing in soil delineations and designs for on-site wastewater disposal systems.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me at any time. Thank you for allowing Central Carolina Soil Consulting to perform this site evaluation for you.

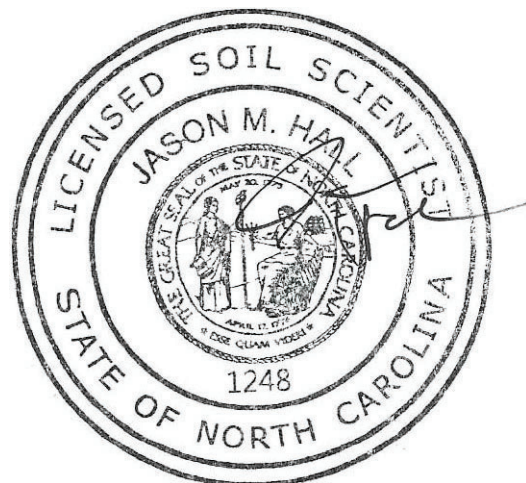
Sincerely,



Jason Hall

NC Licensed Soil Scientist #1248
AOWE certification number 10004E

Encl: Soil Map & septic layout



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110, Wake Forest, NC 27587

Page ____ of ____

PROPERTY ID #: _____
COUNTY: Wake

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

OWNER: _____ Genesis Building Company _____ DATE EVALUATED: 8/7/24
ADDRESS: _____ PO Box 1469, Wake Forest _____
PROPOSED FACILITY: 4-bedroom PROPOSED DESIGN FLOW (.0400): 480 gal/day PROPERTY SIZE: 4.08-acres
LOCATION OF SITE: 4908 Hidden Pastures Way, Zebulon, NC PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Public ☒ Single Family Well ☐ Shared Well ☐ Spring ☐ Other _____ WATER SUPPLY SETBACK: _____
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Domestic ☐ High Strength ☐ IPWW

P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRECTION
			.0503 TEXTURE/ STRUCTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZON		
1	R, 3%	AE, 0-19	SL, Gr	VFR, NS, NP						1.08"
		Bt, 19-24	SCL, SBK	FR, SS, SP, SEXP		S			S.35	
		Bt2, 24-36	Clay, SBK	FI, SS, SP, SEXP		S-36			S.3	
		Bt 3, 36+	Clay, SBK	FI, SS, SP, SEXP	7.5 YR 6/2, 10%	UN				
2	L, 8%	AE, 0-10	SL, Gr	VFR, NS, NP						2.88"
		Bt, 10-35	Clay, SBK	FI, SS, SP, SEXP		S-35			S.3	
		BC, 35+	CL, Wk SBK	FI, SS, SP, SEXP	7.5 YR 6/2, 10%	UN				
3	L, 8%	AE, 0-23	SL, Gr	VFR, NS, NP						2.88"
		Bt, 23-35ar	SCL, SBK	FR, SS, SP, SEXP		S-35			S.35	
4	R, 3%	AE, 0-29	SL, Gr	VFR, NS, NP						1.08"
		Bt, 29-34ar	SCL, SBK	FR, SS, SP, SEXP		S-34			S.35	

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICATION (.0509): _____ suitable EVALUATED BY: _____ Jason Hall OTHER(S) PRESENT: _____
Available Space (.0508)	Yes	Yes	
System Type(s)	Accepted	Accepted	
Site LTAR	.3	.3	
Maximum Trench Depth	19"	19"	

Comments: _____

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE	
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 -0.6	MOIST	WET	SG (Single grain)	
CV (Convex Slope)		LS (Loamy sand)		0.5 -0.7		Lo (Loose)	NS (Non-sticky)	M (Massive)	
D (Drainage way)	II	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)	
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)	
FS (Foot slope)	III	SiL (Silt loam)	0.3 - 0.6	0.1 - 0.3	0.15 - 0.3	FI (Firm)	VS (Very sticky)	ABK (Angular blocky)	
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)	
L (Linear Slope)		CL (Clay loam)		None		EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)	
N (Nose slope)		SiCL (Silty clay loam)						P (Plastic)	
R (Ridge/summit)		Si (Silt)						VP (Very plastic)	
S (Shoulder slope)		IV				SC (Sandy clay)	0.1 - 0.4	0.05 - 0.2	SEXP (Slightly expansive)
T (Terrace)	SiC (Silty clay)		EXP (Expansive)						
TS (Toe Slope)	C (Clay)								
		O (Organic)	None						

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH In inches below natural soil surface

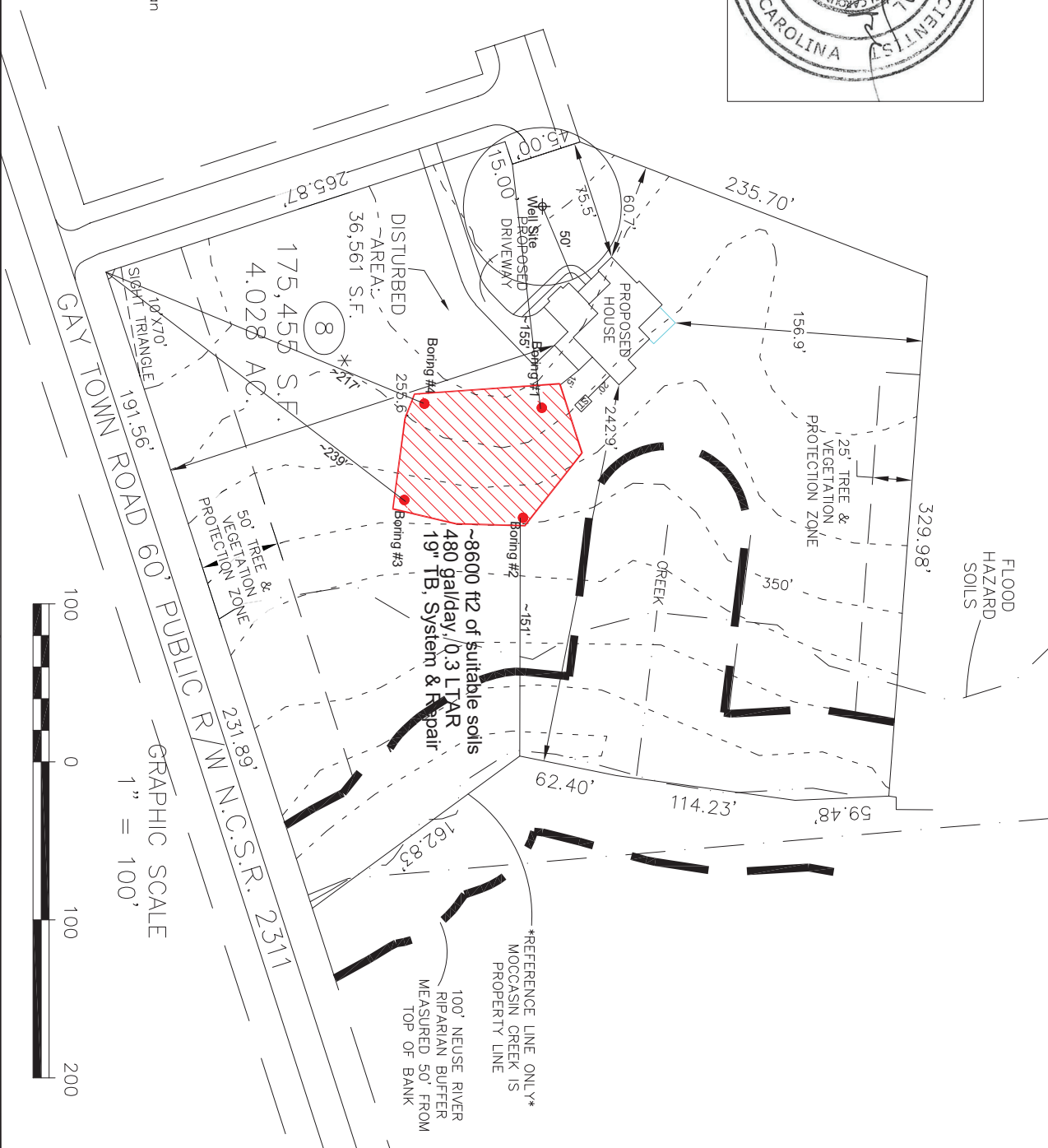
DEPTH OF FILL In inches from land surface

RESTRICTIVE HORIZON Thickness and depth from land surface

SAPROLITE S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits or auger borings.

SOIL WETNESS Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation

CLASSIFICATION S (Suitable) or U (Unsuitable)



*Keep Tanks and Drain lines 10' from property lines.
*Not a Survey
*Keep supply lines >5' from property lines.
*Some lines are flagged longer in the field than lengths indicated above.



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110
Wake Forest, North Carolina 27587
Phone (919)569-6704 Fax (919)569-6703

4-Bedroom Soils map
Lennox Manors lot 8
Wake County, North Carolina

Job# : 4371
Drawn By : JH
Date : 2/12/24
Revision: 8/7/24
Revision: 10/31/24



Central Carolina Soil Consulting, PLLC
1900 South Main Street, Suite 110, Wake Forest, NC 27587
Office Number: 919-569-6704

Acknowledgment of Subsurface wastewater evaluation and septic design by Central Carolina Soil Consulting, PLLC. for Lennox Manors lot 8,
for issuance of an IP and CA.

For Improvement Permit (IP) issuance:

"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)."

For Construction Authorization (CA) issuance:

"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)."

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance G.S. 130A-335(a2), (a3), (a5) and (a6).

Owner: Joseph D Procopio

Owner's representative: *Joseph D. Procopio*

Date: 11/4/2024