

Initial Application Date: 5/29/2024

Initial Application Date:		Арр	lication #	
Central Permitting 420 McKinney P	COUNTY OF HARNETT RE kwy, Lillington, NC 27546	ESIDENTIAL LAND USE APPLIC Phone: (910) 893-7525 ext:1	ATION	www.harnett.org/permits
A RECORDED SURVEY MAP, RECOR	DED DEED (OR OFFER TO PUR	CHASE) & SITE PLAN ARE REQUIRED	WHEN SUBMITTING A LAN	ID USE APPLICATION
LANDOWNER: CAYOLIN & CONSTRUCT	ction of Fayetter	Mailing Address: 3117 (ope 8t.	N = 0 = 0 = 0 = 0
city: <u>fayetteville</u> s	tate: NC Zip: 00 3000 C	Contact Not (10) 334-9 11	9 Email: <u>Jomant</u>	na @ ccmc.com
APPLICANT*: Carolina Construc	KION Mailing Addr	ess: 3117 Cope St	•	
City: Flease fill out applicant information if different than	itate: <u>NC</u> Zip: <u>28306</u> c	ontact No: <u>(910)-339-477</u>	9 Email: Samon	
ADDRESS: 4983 Ray Rd		PIN: <u>0505-65</u>)-270G.00	0
Zoning: Flood: W Setbacks – Front: 55' Back: 25'				
PROPOSED USE:				s remulal
SFD: (Size 49'8", 47'8", # Bedrooms: TOTAL HTD SQ FT (666) GARAGE SQ FT	$\frac{3}{525}$ # Baths: $\frac{2}{500}$ Basement(w/wobath):NAA Garage:_✓_De nished?(NAA) yes (NAA) now/ack	ck: NA Crawl Space: Noset? NA yes	Slab: Slab: NA (if yes add in with # bedrooms)
☐ Modular: (Sizex) # Bedrooi TOTAL HTD SQ FT				
□ Manufactured Home:SWDW _	TW (Sizex	_) # Bedrooms: Garage:	_(site built?) Deck:_	(site built?)
□ Duplex: (Sizex) No. Buildin	gs: No. Bo	edrooms Per Unit:	TOTAL HTD S	QFT
☐ Home Occupation: # Rooms:	Use:	Hours of Operation:		#Employees:
☐ Addition/Accessory/Other: (Sizex) Use:		Closets in ac	ldition? () yes () no
TOTAL HTD SQ FT GAI	RAGE			
Water Supply: County Existing Sewage Supply: New Septic Tank	g Well New Well (# (Need to Con	of dwellings using well	*Must have operable same time as New Tan	water before final k)
(Complete Environmental He. Does owner of this tract of land, own land that	alth Checklist on other side	of application if Septic)	County Sewer	
Does the property contain any easements wh	ether underground or overh	ead () yes (_ v _) no		
Structures (existing or proposed): Single fami	ly dwellings:proposed	Manufactured Homes:	Other (spec	ify):
If permits are granted I agree to conform to a I hereby state that foregoing statements are a	Il ordinances and laws of the	e State of North Carolina regulating est of my knowledge. Permit subi	g such work and the speect to revocation if false	ecifications of plans submitted.
			1/24/2014	,

Signature of Owner's Agent

It is the owner/applicants responsibility to provide the county with any applicable information about the subject property, including but not limited to: boundary information, house location, underground or overhead easements, etc. The county or its employees are not responsible for any incorrect or missing information that is contained within these applications.

*This application expires 6 months from the initial date if permits have not been issued**

APPLICATION CONTINUES ON BACK

strong roots · new growth



This application expires 6 months from the initial date if permits have not been issued

This application to be filled out when applying for a septic system inspection.

County Health Department Application for Improvement Permit and/or Authorization to Construct

IF THE INFORMATION IN THIS APPLICATION IS FALSIFIED, CHANGED, OR THE SITE IS ALTERED, THEN THE IMPROVEMENT PERMIT
OR AUTHORIZATION TO CONSTRUCT SHALL BECOME INVALID. The permit is valid for either 60 months or without expiration depending upon documentation submitted. (Complete site plan = 60 months; Complete plat = without expiration)

- All property irons must be made visible. Place "pink property flags" on each corner iron of lot. All property lines must be clearly flagged approximately every 50 feet between corners.
- Place "orange house corner flags" at each corner of the proposed structure. Also flag driveways, garages, decks, out buildings, swimming pools, etc. Place flags per site plan developed at/for Central Permitting.
- Place orange Environmental Health card in location that is easily viewed from road to assist in locating property.
- If property is thickly wooded, Environmental Health requires that you clean out the <u>undergrowth</u> to allow the soil evaluation to be performed. Inspectors should be able to walk freely around site. **Do not grade property**.
- All lots to be addressed within 10 business days after confirmation. \$25.00 return trip fee may be incurred for failure to uncover outlet lid, mark house corners and property lines, etc. once lot confirmed ready.

Environmental Health Existing Tank Inspections

- Follow above instructions for placing flags and card on property.
- Prepare for inspection by removing soil over **outlet end** of tank as diagram indicates, and lift lid straight up (*if possible*) and then **put lid back in place**. (Unless inspection is for a septic tank in a mobile home park)
- DO NOT LEAVE LIDS OFF OF SEPTIC TANK

"MORE INFORMATION MAY BE REQUIRED TO COMPLETE ANY INSPECTION"

<u>SEPTIC</u>		
If applying	for authorization	on to construct please indicate desired system type(s): can be ranked in order of preference, must choose one.
{}} Acce	epted	{}} Innovative {} Conventional {} Any
{}} Alter	rnative	{} Other
The applica question. It	nt shall notify f the answer is	the local health department upon submittal of this application if any of the following apply to the property in "yes", applicant MUST ATTACH SUPPORTING DOCUMENTATION:
{_}}YES	{ <u>√</u> } NO	Does the site contain any Jurisdictional Wetlands?
{}}YES	{ <u>\</u> } NO	Do you plan to have an <u>irrigation system</u> now or in the future?
{}}YES	{\v\}NO	Does or will the building contain any drains? Please explain.
{}}YES	{_V} NO	Are there any existing wells, springs, waterlines or Wastewater Systems on this property?
{}}YES	{ \ } NO	Is any wastewater going to be generated on the site other than domestic sewage?
{}}YES	{ <u>√</u> } NO	Is the site subject to approval by any other Public Agency?
{}}YES	{_ / } NO	Are there any Easements or Right of Ways on this property?
{}}YES	{ ✓ } NO	Does the site contain any existing water, cable, phone or underground electric lines?
		If yes please call No Cuts at 800-632-4949 to locate the lines. This is a free service.

I Have Read This Application And Certify That The Information Provided Herein Is True, Complete And Correct. Authorized County And State Officials Are Granted Right Of Entry To Conduct Necessary Inspections To Determine Compliance With Applicable Laws And Rules. I Understand That I Am Solely Responsible For The Proper Identification And Labeling Of All Property Lines And Corners And Making The Site Accessible So That A Complete Site Evaluation Can Be Performed.



Х

North Carolina Onsite Wastewater Contractor Inspector Certification Board Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems Notice of Intent (NOI) to Construct

X New Expansion Repair Relocation Relocation of Repair Area
Owner or Legal Representative Information:
Name: Carolina Construction of Fayetteville, Inc.
Mailing address: 3117 Cope St City: Fayetteville State: NC Zip: 28306
Phone: 910-339-4779 Email: billing@ccfnc.com, rmiller@ccfnc.com
Anthonized Oneita Westernator Fred at J. C
Authorized Onsite Wastewater Evaluator Information: Name: Hal Owen Certification #: 10036E
Name: Hall Owen Certification #: 10036E Mailing address: PO Box 400 City: Lillington State: NC Zip: 27546
Phone: 910-893-8743 Email: hal@halowensoil.com
Lindii.
Site Location Information:
Site address: Ray Rd
Tax parcel identification number or subdivision lot, block number of property: The Flatts at Ray
Lot 3 County: Harnett
System Information: Wastewater System Type: IIB
Daily Design Flow: 360 gpd
Saprolite System: Yes X No Subsurface Operator Required: Yes X No
Water Supply Type:Private Well x Public Water SupplySpringOther:
Facility Type:
x Residential 3 # Bedrooms 6 Maximum # of Occupants
Business Type of Business and Basis for Flow:
Public Assembly Type of Public Assembly and Basis for Flow:
Required Attachments: ✓ Plat or Site Plan
Evaluation of Soil and Site Features by Licensed Soil Scientist
Attest: On this the 13 day of May, 2024 by signature below I hereby attest that the information required to be
included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina.
This NOI shall expire on 13 day of May , 2029
Signature of Authorized Onsite Wastewater Evaluator:
Signature of Owner or Legal Representative:
Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee
required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.
Local Health Department Receipt Acknowledgement: Signature of Local Health Department Representative:



ACORD

CERTIFICATE OF LIABILITY INSURANCE

OP ID: TOW

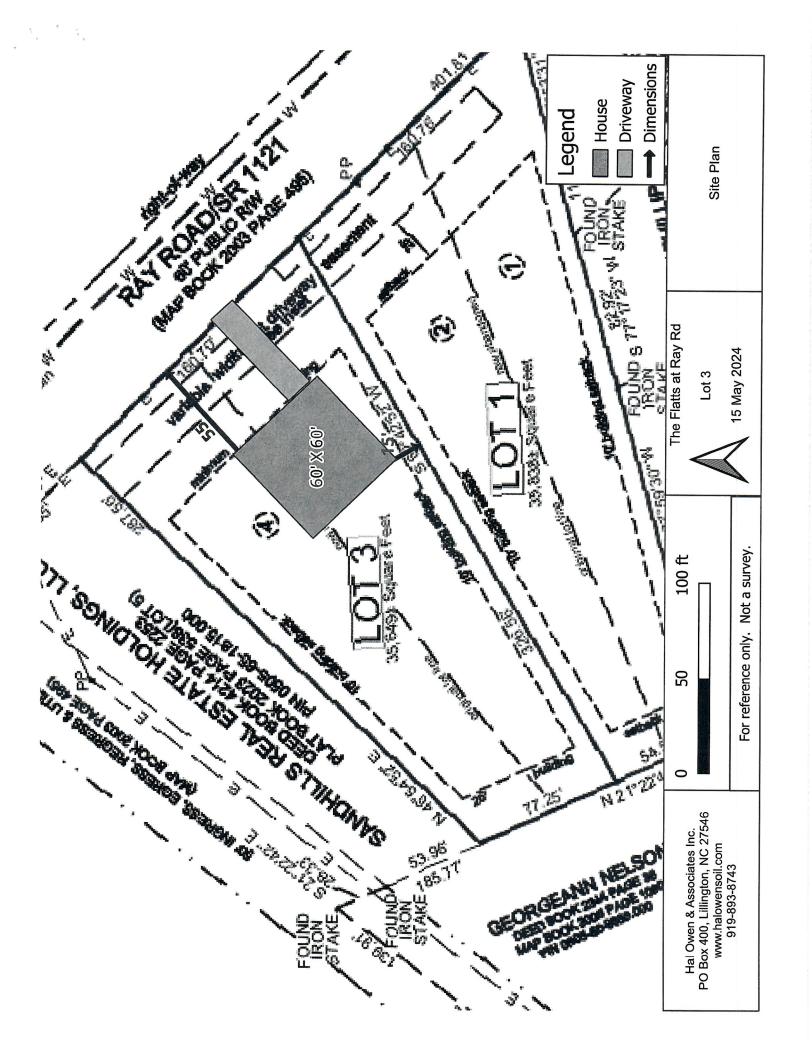
DATE (MM/DD/YYYY) 05/16/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on

	is certificate does not confer rights	to th	e cer	tificate holder in lieu of s				quite un ondoiocine	ic A St	atement on	
INS	DUCER URANCE SERVICE CTR -LILLING		91	0-893-5707	CONTA NAME:	SHARO	N WOODY				
LILLINGTON BRANCH OFFICE					PHONE (A/C, No, Ext): 910-893-5707 FAX (A/C, No): 910-893-2077						
PO Box 1565 LILLINGTON, NC 27546						E-MAIL SWOODY@ISCFAY.COM					
DAI	IIEL L. BABB					IN	SURER(S) AFFO	RDING COVERAGE		NAIC#	
					INSUR		STONE NAT			NAIC#	
INSI	OWEN & ASSOCIATES, INC.				INSUR	ERB:					
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	INGTON, NC 27546				INSURI	ERD:					
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C	DICATED. NOTWITHSTANDING ANY R ERTIFICATE MAY BE ISSUED OR MAY ICLUSIONS AND CONDITIONS OF SUCH	PFR	TAIN!	THE INSURANCE ASSOCIA	OF AN	TUE POLICIE	OR OTHER	DOCUMENT WITH RESPE			
INSR	TYPE OF INSURANCE	ADDI	SUBI	POLICY NUMBER	BEEN	POLICY EFF	POLICY EXP (MM/DD/YYYY)				
	COMMERCIAL GENERAL LIABILITY	HINSU	VVV	FOLIOT NUMBER		(MM/DD/YYYY)	(MM/DD/YYYY)		S		
	CLAIMS-MADE OCCUR							DAMAGE TO RENTED	\$		
								DAMAGE TO RENTED PREMISES (Ea occurrence)	\$		
								MED EXP (Any one person)	\$		
	GEN'L AGGREGATE LIMIT APPLIES PER:							PERSONAL & ADV INJURY	\$		
	POLICY PRO- LOC							GENERAL AGGREGATE	\$	W-114	
	OTHER:							PRODUCTS - COMP/OP AGG	\$		
	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT	\$		
	ANY AUTO	1						(Ea accident)	\$		
	OWNED SCHEDULED AUTOS ONLY AUTOS							BODILY INJURY (Per person)	\$		
	HIRED AUTOS ONLY NON-OWNED AUTOS ONLY							BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)			
	AUTOS ONLY							(Per accident)	\$		
	UMBRELLA LIAB OCCUR			The second secon					\$		
	EXCESS LIAB CLAIMS-MADE							EACH OCCURRENCE	\$		
	DED RETENTIONS	1						AGGREGATE	\$		
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	T						PER OTH- STATUTE ER	\$		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A						E.L. EACH ACCIDENT	\$		
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - EA EMPLOYEE	\$		
Α	PROFESSIONAL LIAB.			42ESP00143901		01/27/2024	01/27/2025	PER OCC.	\$	1,000,000	
								AGGREGATE		2,000,000	
										2,000,000	
DESC	RIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (A	CORD	101, Additional Remarks Schedul	e, may be	attached if more	e space Is require	id)			
CER	TIFICATE HOLDER				CANO	ELL ATION					
CAROLINA CONSTRUCTION OF FAYETTEVILLE INC. 3117 COPE ST FAYETTEVILLE, NC 28306					SHOU THE ACCO	ELLATION JLD ANY OF T EXPIRATION DRDANGE WIT IZED REPRESEN Taylon Wall	I DATE THE	ESCRIBED POLICIES BE CA REOF, NOTICE WILL B Y PROVISIONS.	NCELLE E DELI	:D BEFORE VERED IN	
						Walter Walter					



HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, Lillington NC 27546-0400 Phone (910) 893-8743 / Fax (910) 893-3594 www.halowensoil.com

15 May 2024

Carolina Construction of Fayetteville Inc. 3117 Cope St Fayetteville, NC 28306

Reference: AOWE Evaluation

The Flatts at Ray Lot 3

Dear Carolina Construction of Fayetteville Inc,

A soil and site evaluation has been conducted for the referenced property for the purpose of permitting a subsurface wastewater system. This evaluation was prepared based on information provided by the applicant to include the basis for design flow, proposed structure location(s), and property boundaries. Any false, inaccurate, or incomplete information provided by the applicant, owner, or legal representatives may result in denial or revocation of applications, approvals, or permits.

This AOWE/LSS Evaluation is being submitted pursuant to and meets the requirements of G.S.130A-336.2. This evaluation includes a signed and sealed soil and site evaluation, specifications, plans, and reports for the site layout and construction of a proposed onsite wastewater system by an Authorized On-Site Wastewater Evaluator (AOWE). The evaluation of soil conditions and site features is provided in accordance with G.S. 130A-335(e), the Rules for "Wastewater Treatment and Dispersal Systems", 15A NCAC 18E, and local septic regulations (if any). This report represents my professional opinion as a Licensed Soil Scientist and Authorized Onsite Wastewater Evaluator.

This AOWE Evaluation is intended to file a Notice of Intent to construct a wastewater system with the Local Health Department and shall expire in five years.

Sincerely,

Hal Owen

Senior Licensed Soil Scientist

Authorized Onsite Wastewater Evaluator

Number 10036E



Britt Wilson Licensed Soil Scientist



W Will

Contents

SPECIAL TERMS AND CONDITIONS	3
Proposed Use	4
WATER SUPPLY	4
Existing Site Conditions	4
SOIL AND SITE INVESTIGATION	
Figure 1 Soil map showing septic suitability	
Soil/Site Evaluation Form for On-Site Wastewater System	
SEPTIC SYSTEM DESIGN	
SEPTIC AREA PREPARATION	
PERMIT CONDITIONS	9
Wastewater Treatment System Plans	
Septic System Design Specifications	
Figure 2 Septic System Layout	
Initial System Specifications	
Repair System Specifications	

TERMS AND CONDITIONS

This evaluation is not a permit to develop. The owner and subcontractors will need to abide by all state and local rules and regulations pertaining to planning, zoning, and land use development.

Notice of Intent to Construct – Prior to commencing or assisting in the construction, siting, relocation, or repair of a wastewater system, a complete Notice of Intent (NOI) to Construct a wastewater system using an AOWE must be submitted to the Local Health Department (LHD). The owner may apply for a building permit for the project upon submitting a complete NOI and the required fee.

<u>Plan Alterations</u> – If there are any changes in the site plan that can impact the wastewater system, such as moving the house or driveway, site alterations, or if the applicant chooses to change the design daily flow prior to wastewater system construction, a new NOI shall be submitted to the LHD. The applicant shall request in writing that the PE or AOWE invalidate the prior NOI with a signed and sealed letter sent to the applicant and LHD.

<u>Site Alterations</u> – The applicant shall be responsible for preventing modifications or alterations of the site for the wastewater system and the system repair area before, during, and after any construction activities for the facility, unless approved by the AOWE.

On-Site Wastewater System Contractor – The AOWE shall assist the owner in the selection of a certified on-site wastewater system contractor who shall be under contractual obligation to the owner and have sufficient errors and omissions, liability, or other insurance for the system constructed.

<u>Inspections, Construction Observations, and Reports</u> – The AOWE shall make periodic visits to the site to observe the progress and quality of the construction of the wastewater system.

<u>Authorization to Operate (ATO)</u> – Upon determining that the wastewater system has been properly installed and is capable of being operated in accordance with the conditions of the permit, the AOWE shall provide the owner with a report that includes inspection reports, a written operation and management program, any special reports, and an Authorization to Operate. The owner shall sign confirming acceptance and receipt of the report, and then provide a copy to the LHD who will issue the certificate of occupancy for the facility.

Operation and Management – The owner shall be responsible for continued adherence to the operations and management program established by the AOWE. This permit shall in no way be taken as a guarantee or implied warranty that the septic system will function satisfactorily for any given period of time.

<u>Change in System Ownership</u>. – An authorized wastewater system shall be transferrable to a new owner with the consent of the AOWE. The new owner and the AOWE shall enter a contract for the wastewater system.

<u>Revocation</u> – The AOWE permit is subject to revocation if the site plan, plat, or the intended use changes. This permit is subject to compliance with the provisions of the Laws and Rules for Wastewater Treatment and Dispersal Systems and to the conditions of this permit.

<u>Repair of Malfunctioning Systems</u>. – The owner may apply for an Improvement Permit and a Construction Authorization from the LHD or obtain a NOI from an AOWE to repair a malfunctioning wastewater system.

PROPOSED USE

A new single-family residence will be built at the site. The home will not have a basement. The proposed single-family residence will contain three bedrooms and have a design wastewater flow of 360 gallons per day. The maximum occupancy of the home is 6 people.

WATER SUPPLY

Water will be provided by public water supplies.

EXISTING SITE CONDITIONS

At the time of the investigation, the site had been cleared, lot corners were staked, and the new building footprint was not marked.

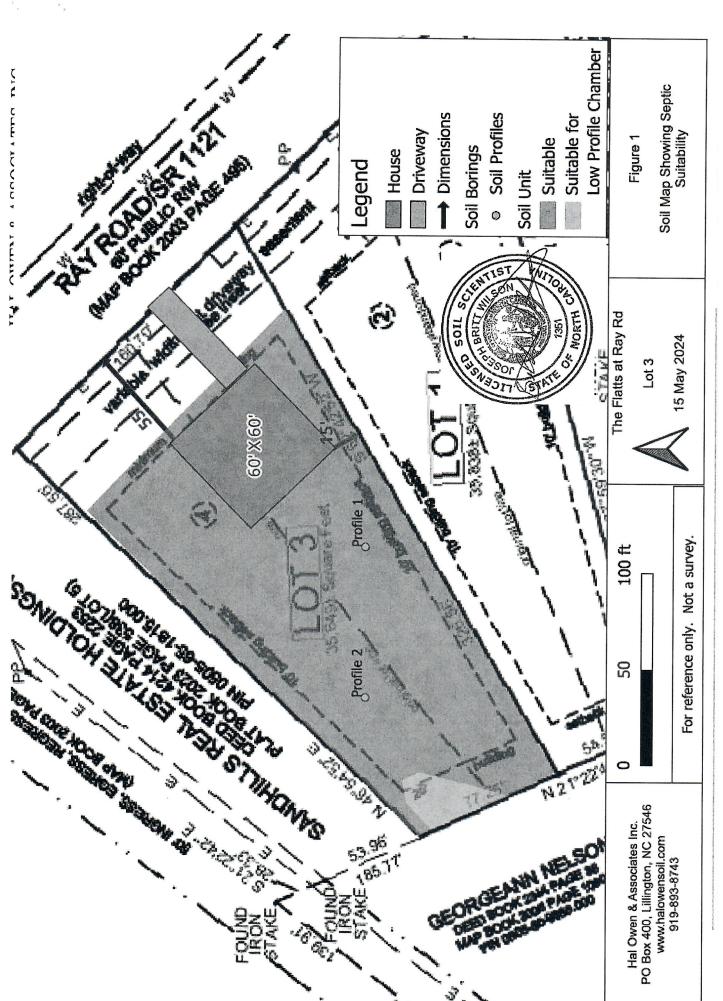
No existing wells, streams, or wetlands were observed within 50 feet of the proposed septic system and repair area.

There is a joint driveway easement at the front of the property.

SOIL AND SITE INVESTIGATION

The soils were evaluated under moist soil conditions through the advancing of auger borings. This evaluation included observations of topography and landscape position, soil morphology (texture, structure, clay mineralogy, organics), soil wetness, soil depth, and restrictive horizons. Descriptions of the soil borings located within the investigated portions of the site are provided in the attached Soil/Site Evaluation form.

Soils in the proposed system area were observed to rate as suitable for subsurface wastewater dispersal systems. (Figure 1). The subsoils were observed to be firm clays and extended to greater than 48 inches below ground surface. Evidence of a soil wetness condition was observed at 27 inches below surface or deeper. These soils appear adequate to support long-term acceptance rates of 0.3 gal/day/ft² for accepted status drainlines.



The Flatts at Ray, Lot 3 Harnett Co, NC 15 May 2024

AOWE Evaluation Pg 5 of 14

SOIL/SITE EVALUATION FORM FOR ON-SITE WASTEWATER SYSTEM

OWNER NAME: Carolina Construction of Fayetteville, IncOWNER ADDRESS: 3117 Cope St							
D FACILITY	Residentia	1 P	ROPOSED DES	IGN FLOW:	360 PROPERTY SIZE	: 1.64	
N OF SITE:	Ray Road		-		PIN:		
ATER TYPE:	Domestic		10000000000000000000000000000000000000	-		Maria del Caracteria de Ca	
JPPLY:	Public Wa	ter	WATE	- R SUPPLY		· · · · · · · · · · · · · · · · · · ·	
ION METHO	D: AUGI	R BORING			***************************************	-	
		INITIAL ST	YSTEM		REPAIR SYSTE	М	
BLE SPACE	900	ft2 trench b	ottom	TO SHE TO SHE WAS TO S			
STEM TYPE	Accepted ((25% reducti	on) System	mana saura talah mana saura saur			
ICH DEPTH	AMERICAN AND ADDRESS OF THE PARTY OF THE PAR	THE RESERVE AND ADDRESS OF THE PARTY OF THE	sured on downl	ill side)		on downhill side)	
SIFICATION							
OMMENTS				•	4 ar broad and a state of the s		
1							
COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FAC	CTORS	
	TENCE			LOGY			
10YR 5/3	VFR	SL	GR	SEXP	LANDSCAPE POSITION	Н	
7.5YR 5/8	FI	С	SBK	SEXP	SOIL WETNESS DEPTH	27"	
10YR 6/8	FR	SCL	SBK	SEXP	SOIL WETNESS COLOR	10YR 7/1	
					SOIL DEPTH	48"	
					SAPROLITE CLASS	NA	
					RESTRICTIVE HORIZON	NA	
					SLOPE %	4	
LASSIFICA	TION	Suitable	LTAR gpd/ft2	0.3	SLOPE CORRECTION (IN)	1.4	
Γ					**************************************		
2							
COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FAC	CTORS	
	TENCE			LOGY			
10YR 5/3	VFR	SL	GR	SEXP	LANDSCAPE POSITION	L	
10YR 6/3	VFR	SL	GR	SEXP	SOIL WETNESS DEPTH	29"	
10YR 6/6	FI	SCL	SBK	SEXP	SOIL WETNESS COLOR	10YR 7/1	
					SOIL DEPTH	48"	
					SAPROLITE CLASS	NA	
					RESTRICTIVE HORIZON	NA	
						1	
					SLOPE %	10	
	N OF SITE: ATER TYPE: JPPLY: ION METHO ED BY: BLE SPACE STEM TYPE SITE LTAR ICH DEPTH SIFICATION OMMENTS 1 COLOR 10YR 5/3 7.5YR 5/8 10YR 6/8 LASSIFICA COLOR 10YR 5/3 10YR 6/3	NOF SITE: Ray Road ATER TYPE: Domestic JPPLY: Public Wa ION METHOD: AUGH ED BY: Britt Wilso BLE SPACE 900 Accepted SITE LTAR 0.30 ICH DEPTH 13 ISIFICATION Suitable IOMMENTS I COLOR CONSIS TENCE 10YR 5/3 VFR 7.5YR 5/8 FI 10YR 6/8 FR CLASSIFICATION CLASSIFICATIO	NOF SITE: Ray Road	NOF SITE: Ray Road ATER TYPE: Domestic JPPLY: Public Water WATE ION METHOD: AUGER BORING X ED BY: Britt Wilson, LSS 1351 INITIAL SYSTEM	NOF SITE: Ray Road	NOF SITE: Ray Road	

LEGEND OF ABBREVIATIONS FOR SITE EVALUATION FORM

I ANDGGA DE DOGGETON	TEXTURE	TEXTURE		LTAR
LANDSCAPE POSITION	GROUP	<u>CLASS</u>		(gal/day/sqft)
CC - Concave Slope	I	S - Sand		1.2-0.8
CV - Convex Slope		LS - Loamy Sand		
DS - Debris Slump				
D - Depression	II	SL - Sandy Loam		0.8 - 0.6
DW - Drainage Way		L - Loam		
FP - Flood Plain				
FS - Foot Slope	III	SCL - Sandy Clay L	oam	0.6 - 0.3
H - Head Slope		CL - Clay Loam		
L - Linear Slope		SiL - Silt Loam		
N - Nose Slope		Si - Silt		
R - Ridge		SiCL - Silt Clay Loan	m	
S - Shoulder Slope		•		
T - Terrace	IV	SC - Sandy Clay		0.4 - 0.1
TS - Toe Slope		C - Clay		
-		SiC - Silty Clay		
		, , , , , , , , , , , , , , , , , , ,		
		O - Organic		none
STRUCTURE	MOIST CONSIST		WET CON	SISTENCE
G - Single Grain	VFR - Very Fria	ble	NS - No	n Stick
M - Massive	FR - Friable		SS - Slig	ghtly Sticky
CR - Crumb	FI - Firm		MS - Mo	derately Stick
GR - Granular	VFI - Very Firm	i i	VS - Ver	ry Sticky
SBK - Subangular Blocky	EFI - Extremel	y Firm		
ABK - Angular Blocky			NP - No	n Plastic
PL - Platy	MINERALOGY		SP - Slig	ghtly Plastic
PR - Prismatic	SEXP - Slight	tly Expansive	MP - Mo	derately Plastic
	EXP - Expai		VP - Vei	y Plastic
MOTTLES				
f - few 1 - fine		F - Faint		
c – common 2 - media	ım	D - Distinct		
m – many 3 – coars	e .	P - Prominent		

Give Horizon Depth in inches below natural soil surface and Fill Depth in inches above land surface. Depth to Soil Wetness: inches below land surface to free water or to soil colors with chroma 2 or less.

Classification: S – Suitable

U – Unsuitable

SEPTIC SYSTEM DESIGN

See section Wastewater Treatment System Plans and Figure 2 for a diagram of the septic system layout and design specifications.

A 1000 gallon (at minimum) septic tank and an approved septic effluent filter is required. There appears to be adequate fall from the house to the initial drainfield for a gravity driven system; however, a pump tank (1000 gallon at minimum) should be added if gravity distribution cannot be demonstrated.

The initial septic system is proposed as a gravity driven system to 300 linear feet of Accepted Status drainlines utilizing a 25% reduction in total drainline length (Figure 2). A long-term acceptance rate (LTAR) of 0.3 gal/day/ft² was used to design the dispersal field. Effluent will be serially distributed to three unequal length drainlines. The drainlines shall be installed on contour with maximum trench bottom depths at 13 inches below surface (as measured on low side). Approved soil material shall be added to establish at least 6 inches of cover over the drainfield.

The repair septic system is proposed as a gravity driven system to 300 linear feet of Accepted Status drainlines utilizing a 25% reduction in total drainline length (Figure 2). A long-term acceptance rate (LTAR) of 0.3 gal/day/ft² was used to design the dispersal field. Effluent will be serially distributed to four unequal length drainlines. The drainlines shall be installed on contour with maximum trench bottom depths at 17 inches below surface (as measured on low side). Approved soil material shall be added to establish at least 6 inches of cover over the drainfield.

SEPTIC AREA PREPARATION

It is important that you do not disturb the septic areas during site construction. A staked line or protective fence should be placed around the system areas prior to construction to eliminate any potential damage to the soil or the layout of the system. Septic areas should not be used for staging construction materials or subjected to vehicular traffic. Do not cut, grade, fill, install utilities, or otherwise alter the designated septic areas.

Care should be taken when clearing vegetation from the septic area. Work should only occur when the soil is at the appropriate moisture content to limit the impact to the soil structure in the soil treatment area. Do not scrape the ground inside the drainfield. Any clearing or preparation of the septic areas shall be done without removal, disturbance, or compaction of the soil.

PERMIT CONDITIONS

GENERAL CONDITIONS:

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met.

System shall be installed in accordance with the attached Wastewater Treatment System Plans.

Any changes to the site plan or intended use must be approved by Hal Owen & Associates. Permit modification and resubmittal to the LHD may be necessary to ensure regulatory compliance.

Conformance to all regulatory setbacks shall be maintained. Local regulations (such as well or riparian buffer ordinances) may require more stringent setbacks.

Minimum soil cover of six inches shall be established over nitrification field. Soil cover above the original grade shall be placed at a uniform depth over the entire nitrification and shall extend laterally five feet beyond the nitrification trench. Site shall be graded to shed water away from field and a vegetative cover established to prevent erosion.

The nitrification field and repair area shall not be subject to vehicular traffic. Vehicular traffic can damage soils, pipes, and valve boxes. Do not use septic areas for parking.

Do not allow underground utilities, water lines, or sprinkler systems to be installed in the septic areas. Damage to the septic areas could result in the septic permit being revoked.

The wastewater system shall not be covered until inspected by Hal Owen & Associates and shall not be placed into use until an Authorization to Operate is issued.

SPECIAL CONDITIONS:

• To ensure a watertight joint, the inlet and outlet of all tanks shall be equipped with an approved pipe penetration boot.

WASTEWATER TREATMENT SYSTEM PLANS

PROJECT INFORMATION

Wastewater System	New		.0403 Eng Low Flow	No			
Wastewater Strength	Domestic						
Effluent Standard	DSE	DSE					
Water Supply	Public Water	Public Water					
Facility Type	Residential						
Design Wastewater Flow	360	gpd	gal/unit	120			
Basis for Flow	3	bedrooms	max occupancy	6			
Basement	No		Fixtures in basement?	No			
Crawl Space	No		Slab Foundation	Yes			

PROPERTY INFORMATION

County	Harnett
Site Address	Ray Road
S/D Name and Lot#	The Flatts at Ray, Lot 3
PIN	
County PID	
Size (Acre)	1.64

APPLICANT INFORMATION

Name Carolina Construction of Fayetteville, Inc.					
Mailing Address	3117 Cope St				
	Fayetteville, NC 28306				
Telephone Number	910-339-4779				
E-mail Address	billing@ccfnc.com, rmiller@ccfnc.com				

CONSULTANT INFORMATION

Company Name	Hal Owen & Associates, Inc.					
Mailing Address	PO Box 400, Lillington, NC 27546					
Telephone Number	910-893-8743 Fax: 910-893-3594					
E-mail Address	hal@halowensoil.com					
Licensed Soil Scientist	Hal Owen, LSS #1102 and AOWE# 10036E					
System Designer	Jocelyn Prouix					

Septic System Design Specifications

SEPTIC SYSTEM DESIGN

Proposed Design Daily Flow		360	gpd	Drainfield Meeets Requ	uirements:
Septic Tank Size	(minimum)	1000	gallons	.0508 Available Space	Yes
Pump Tank Size	(minimum)	1000	gallons, if required	.0601 Setbacks	Yes
Initial System System Type	*See Detailed		arameters er gravity system		
Pump Required	No			ft TDH at	GPM
Trenches:	Accepted (25	% reduction	n) System		
Design LTAR		0.30	gal/day/ft ²	Saprolite System	No
Total Trench/ Be	d Length	300	feet	Fill System	No
Trench Spacing		9	ft on center		

ft on center Usable soil depth to LC 27 inches Soil Cover 6 Maximum Trench Depth 13

inches, measured on downhill side of trench Artificial Drainage Required No

Repair System

System Type: IIb - Accepted wastewater gravity system Trenches: Accepted (25% reduction) System Design LTAR 0.30 gal/day/ft2 Saprolite System Total Trench/ Bed Length 300 feet Fill System Trench Spacing 9 ft on center Usable soil depth to LC 29 inches Maximum Trench Depth of 17 inches, measured on downhill side of trench Pump Required No

Potential Drainlines flagged at site on 9-ft centers.

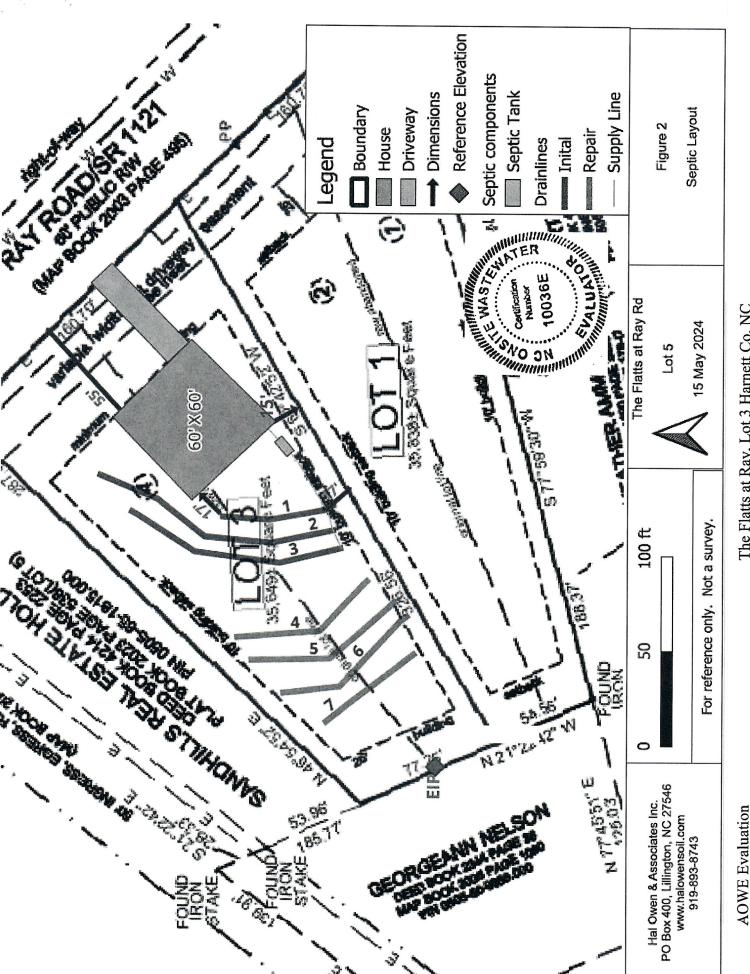
		Relative	Drainline	Field
Line #	Color	Elevation (ft)	Length(ft)	Length(ft)
1	R	108.17	54	54
2	W	107.83	131	132
3	В	107.53	115	143
4	R	106.04	79	77
5	W	105.14	85	87
6	В	104.24	80	83
7	Y	103.42	56	68
Septic Tank:		109.61		
Reference Elev:		100.00	mx.	

Notes:

*No grading or removal of soil in initial or repair areas

inches

- *Property lines per owner
- *Trench bottoms shall be level to +/- 1/4" in 10ft
- *All parts of septic system must meet minimum setbacks



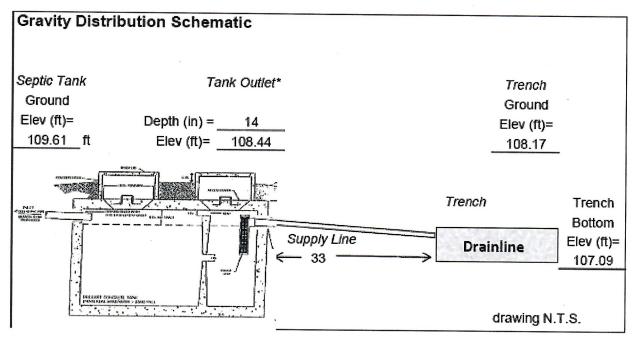
The Flatts at Ray, Lot 3 Harnett Co, NC 15 May 2024

Pg 12 of 14

Initial System Specifications

Gravity System Design Criteria

DESIGN DAILY FLOW 360 gallons SOIL LTAR: 0.30 gpd/ft² TANK (minimum) Septic Tank: 1000 gallons SUPPLY LINE Length (ft): 33 Diameter: 3 "sch 40 pvc slope = 1.08%*minimum slope of supply line is 1/8" per foot (%1.04) **TRENCHES** Drainline Type: Accepted (25% reduction) System Maximum Trench Depth of inches, measured on downhill side Trench height: 12 inches Trench width: Trench Length Factor: 75 % Effective Trench Width: ft Absorption Area: 900 Minimum Linear Length: 300 Actual Trench Length: X 300 ft 300

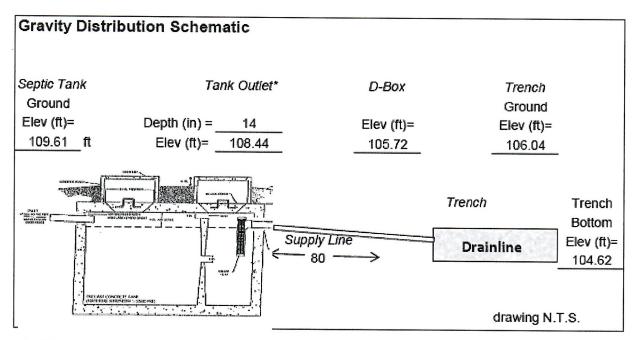


^{*}Outlet depth of septic tank is dependant upon the depth of the plumbing stub out from the home. A pump tank should be added if gravity distribution cannot be demonstrated.

Repair System Specifications

Gravity System Design Criteria

DESIGN DAILY FLOW 360 gallons SOIL LTAR: 0.30 gpd/ft² TANK (min) Septic Tank: 1000 gallons SUPPLY LINE Length (ft): 80 Diameter: " sch 40 pvc slope = 3.40% *minimum slope of supply line is 1/8" per foot (%1.04) TRENCHES Drainline Type: Accepted (25% reduction) System Maximum Trench Depth of 17 inches, measured on downhill side Trench height: 12 inches Trench width: ft Trench Length Factor: 75 % Effective Trench Width: Absorption Area: 900 Minimum Linear Length: 300 Actual Trench Length: Х 300 ft 300



*Outlet depth of septic tank is dependant upon the depth of the plumbing stub out from the home. A pump tank should be added if gravity distribution cannot be demonstrated.