

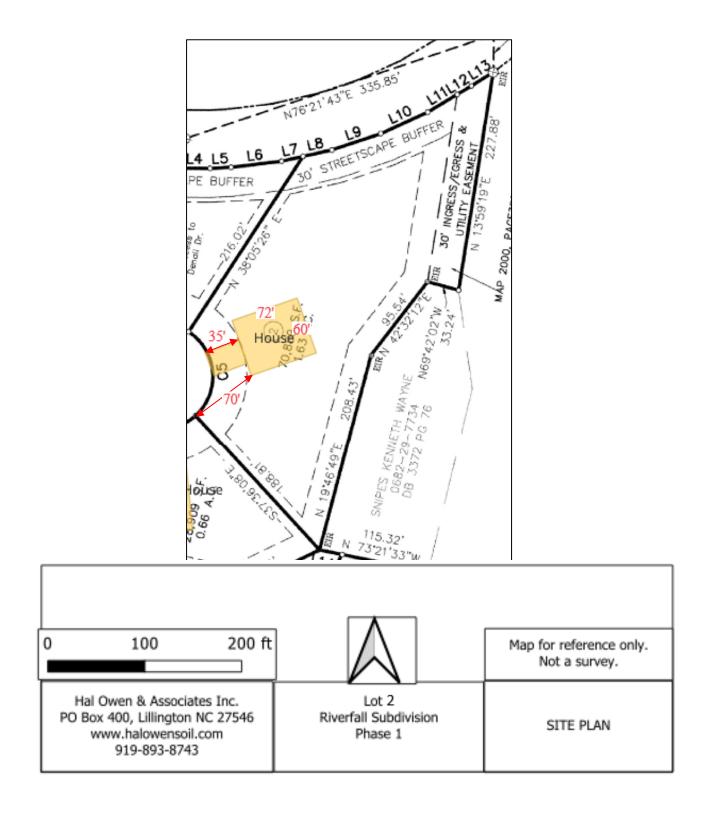
North Carolina Onsite Wastewater Contractor Inspector Certification Board Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems Notice of Intent (NOI) to Construct

New Expansion Repair Relocation Relocation of Repair Area
Owner or Legal Representative Information: Name: Mattamy Homes, LLC Mailing address: 11000 Regency Parkway, Suite 110 _{City:} Phone: 919-625-9546 Email: drew.brody@mattamycorp.com
Authorized Onsite Wastewater Evaluator Information: Name: Hal Owen Certification #: 10036E Mailing address: PO Box 400 City: Lillington State: NC Zip: 27546 Phone: 910-893-8743 Email: hal@halowensoil.com
Site Location Information: Site address: Barrow Ct, Angier, NC Tax parcel identification number or subdivision lot, block number of property:
System Information: Wastewater System Type: Daily Design Flow: 480 gpd Saprolite System: YesNo Subsurface Operator Required: YesNo Water Supply Type: Private WellPublic Water SupplySpringOther:
Facility Type: ✓ Residential 4 # Bedrooms 8 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 <u>12</u> day of <u>January</u> 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 <u>12</u> day of <u>January</u> , <u>2025</u> .
This NOI shall expire on 12 day of January , 2025 . Signature of Authorized Onsite Wastewater Evaluator: . Signature of Owner or Legal Representative: . Drew Brody
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:Date:Date:

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PRO	DUCER			-893-5707	CONTA	T SHARO	N WOODY			
	INSURANCE SERVICE CTR -LILLING LILLINGTON BRANCH OFFICE					. Ext): 910-89	93-5707	FAX (A/C, No)	910-89	3-2077
	Box 1565 INGTON. NC 27546				E-MAIL	_{ss:} Swood	Y@ISCFAY	.COM		1
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								EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	
								MED EXP (Any one person)	\$	
								PERSONAL & ADV INJURY	\$	
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	
	POLICY PRO- JECT LOC							PRODUCTS - COMP/OP AGG	\$	
	OTHER:								\$	
	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT (Ea accident)	\$	
	ANY AUTO							BODILY INJURY (Per person)	\$	
	OWNED AUTOS ONLY AUTOS HIRED NON-OWNED							BODILY INJURY (Per accident) PROPERTY DAMAGE		
	HIRED AUTOS ONLY AUTOS ONLY							(Per accident)	\$	
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
	DED RETENTION \$								\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY							PER OTH- STATUTE ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE	N/A						E.L. EACH ACCIDENT	\$	
	(Mandatory in NH)							E.L. DISEASE - EA EMPLOYE	\$	
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						01/21/2020	0112172024	AGGREGATE		2,000,000
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (ACORE	1 0 101, Additional Remarks Schedu	le, may b	e attached if mo	re space is requin	ied)		
CERTIFICATE HOLDER						ELLATION				
MATTAMY HOMES, LLC					SHO THE	ULD ANY OF EXPIRATIOI	N DATE TH	ESCRIBED POLICIES BE C EREOF, NOTICE WILL EY PROVISIONS.		
	11000 REGENCY PRKW CARY, NC 27518	r, 51	⊏. 11	10	AUTHORIZED REPRESENTATIVE					

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Site Plan-Lot 2



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

17 January 2024

Mattamy Homes, LLC 11000 Regency Parkway, Suite 110 Cary, NC 27518

Reference: AOWE Evaluation Lot 2 Ph 1, Riverfall SD Barrow Ct, Angier, Harnett Co., NC PIN 0682-29-6960.000

Dear Mattamy Homes LLC,

A soil and site evaluation has been conducted for the above referenced property for the purpose of permitting a subsurface sewage waste disposal system. **This LSS Evaluation is being submitted pursuant to and meets the requirements of G.S.130A-336.2.** This 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 report shall be used to file a Notice of Intent to Construction a wastewater system with the Local Health Department within one year of the date of this evaluation. Failure to file an NOI before then shall result in the AOWE Evaluation to become void.



Sincerely,

Inva

Hal Owen Senior Licensed Soil Scientist Authorized Onsite Wastewater Evaluator

CONTENTS

SPECIAL TERMS AND CONDITIONS	3
PROPOSED USE	
WATER SUPPLY	4
EXISTING SITE CONDITIONS	4
SOIL AND SITE INVESTIGATION	4
Figure 1 Soil map showing septic suitability	5
Soil/Site Evaluation Form for On-Site Wastewater System	6
SEPTIC SYSTEM DESIGN	8
SEPTIC AREA PREPARATION	8
PERMIT CONDITIONS	9
WASTEWATER TREATMENT SYSTEM PLANS	10
Septic System Design Specifications	11
Figure 2 Septic System Layout	12
Initial System Specifications	12
Repair System Specifications	14

SPECIAL TERMS AND CONDITIONS

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) in accordance with G.S. § 130A-336.2. This evaluation was prepared based on information provided by the owner of the proposed system; to include the basis for design flow, proposed structure location(s), and property boundaries. Any false, inaccurate, or incomplete information provided by the owner may result in denial or revocation of applications, approvals, or permits.

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.

<u>Notice of Intent to Construct</u> – The proposed wastewater system is not "permitted" until the owner files an application with the Local Health Department (LHD) and provides a complete Notice of Intent (NOI) to Construct a wastewater system using an AOWE. The owner may apply for a building permit for the project upon submitting a complete NOI and the required fee.

<u>On-Site Wastewater System Contractor</u> – The AOWE shall assist the owner in the selection of an 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. Upon determining that the system is properly installed and capable of being operated in accordance with the conditions of the permit, the AOWE will issue an Authorization to Operate (ATO) and include an inspection report and a written operation and management program. The owner shall provide a complete ATO package and fee to the LHD, who will issue the certificate of occupancy for the facility.

<u>Operation and Management</u> – 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.

 $\underline{\text{Revocation}}$ – 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 Sewage Treatment and Disposal 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 four bedrooms and have a design wastewater flow of 480 gallons per day. The maximum occupancy of the home is 8 people.

WATER SUPPLY

Public water supplies will be utilized.

EXISTING SITE CONDITIONS

At the time of the investigation, the site had been cleared, lot corners were staked, and the new building footprint was marked. No existing wells, streams, or wetlands were observed within 50 feet of the proposed septic system and repair area. There is a 30-foot egress/ingress and utility easement and a 30-foot streetscape easement located at the rear 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 sewage waste disposal systems. (Figure 1). The subsoils were observed to be firm sandy clay loams and extended to greater than 48 inches below ground surface. Evidence of a soil wetness condition was observed at 46 inches below surface or deeper. These soils appear adequate to support long-term acceptance rates of 0.4 gal/day/ft^2 for conventional drainlines.

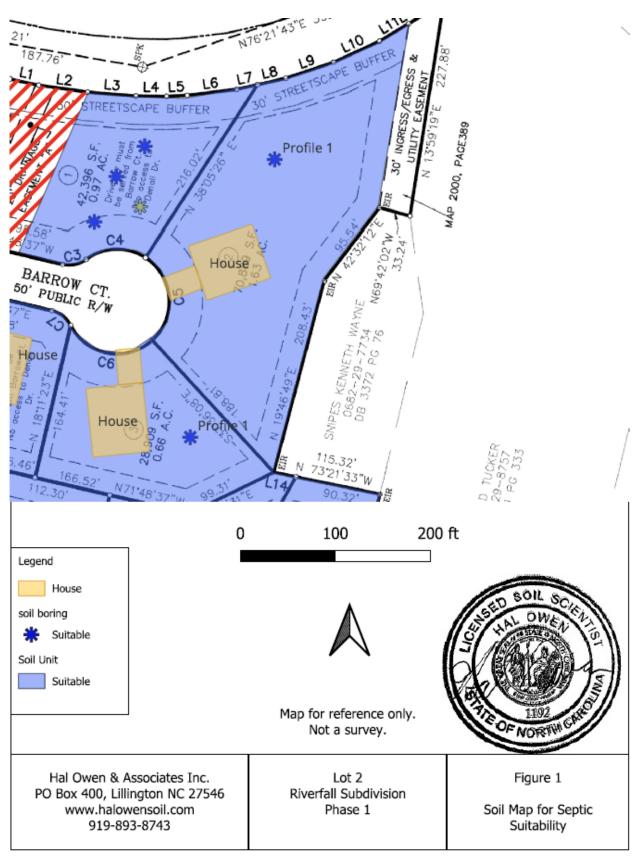


Figure 1 Soil map showing septic suitability

Soil/Site Evaluation Form for On-Site Wastewater System

OWNER NAME: Mattamy Homes, LLC OWNER ADDRESS: 11000 Regency Parkway, Suite 110								
PROPOSEI	PROPOSED FACILITY: Residential PROPOSED DESIGN FLOW: 480 ROPERTY SIZE: 1.63							
LOCATION	OCATION OF SITE: Barrow Ct, Angier, NC PIN: 0682-29-6960.000							
WASTEWA	VASTEWATER TYPE: Domestic COUNTY: Harnett							
WATER SU	VATER SUPPLY: Public Water WATER SUPPLY SETBACK: 10							
EVALUAT	EVALUATION METHOD: AUGER BORING X PIT CUT							
EVALUAT	ED BY:	Hal Owen,	LSS 1102 at	nd Steven Boor		DATE EVALUATED:	10/31/2023	
						•		
			INITIAL SY	TSTEM		REPAIR SYSTE	M	
AVAILA	BLE SPACE	900	ft ² trench bo	ottom		900 ft ² trench bottom	L	
SYS	TEM TYPE	Accepted (25% reducti	on) System		Accepted (25% reduction) System	
	SITE LTAR	0.40	gpd/ft ²			0.40 gpd/ft ²		
MAX TRENCH DEPTH 24 inches (measured on downhill side) 24 inches (measured on downhill s					on downhill side)			
SITE CLAS	SIFICATION	Suitable			OTHE	R FACTORS		
C	OMMENTS							
PROFILE	1							
HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FAC	TORS	
DEPTH		TENCE			LOGY			
0-11	10YR 6/4	VFR	SL	GR	SEXP	LANDSCAPE POSITION	L	
11-19	10YR 6/8	VFR	SL	SBK	SEXP	SOIL WETNESS DEPTH	46"	
19-46	10YR 6/8	FR	SCL	SBK	SEXP	SOIL WETNESS COLOR		
46-48	10YR 6/8	FI	SCL	SBK	SEXP	SOIL DEPTH	48"	
						SAPROLITE CLASS	NA	
						RESTRICTIVE HORIZON	NA	
						SLOPE %	5	
PROFILE O	LASSIFICA	TION	Suitable	LTAR gpd/ft ²	0.5	SLOPE CORRECTION (IN)	1.8	
COMMENT								

	TEXTURE	TEXTURE		.1955 LTAR
LANDSCAPE POSITION	<u>GROUP</u>	CLASS		(gal/day/sqft)
CC - Concave Slope	Ι	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 I	Loam	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 Loa	m	
S - Shoulder Slope				
T - Terrace	IV	SC - Sandy Clay		0.4 - 0.1
		C - Clay		
		SiC - Silty Clay		
		O - Organic		none
STRUCTURE	MOIST CONSIST	FENCE	WET CON	NSISTENCE
G - Single Grain	VFR - Very Fria	able	NS - N	on Stick
M - Massive	FR - Friable		SS - SI	lightly Sticky
CR - Crumb	FI - Firm		MS - M	Ioderately Stick
GR - Granular	VFI - Very Firm	n	VS - V	ery Sticky
SBK - Subangular Blocky	EFI - Extremel	y Firm		
ABK - Angular Blocky			NP - N	on Plastic
PL - Platy	MINERALOGY		SP - SI	lightly Plastic
PR - Prismatic				Ioderately Plastic
	SEXP - Sligh	tly Expansive		ery Plastic
	EXP - Expa	• •		
MOTTLES				
f - few 1 - fine		F - Faint		
c – common 2 - medi	ım	D - Distinct		
m – many 3 – coars	e	P - Prominent		

LEGEND OF ABBREVIATIONS FOR SITE EVALUATION FORM

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 application rate (LTAR) of 0.4 gal/day/ft² was used to design the nitrification field. A distribution box will be used to deliver effluent in parallel distribution to three 100-ft long drainlines. The drainlines shall be installed on contour with maximum trench bottom depths at 24 inches below surface (as measured on low side).

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 application rate (LTAR) of 0.4 gal/day/ft² was used to design the nitrification field. A distribution box will be used to deliver effluent in parallel distribution to three 100-ft long drainlines. The drainlines shall be installed on contour with maximum trench bottom depths at 24 inches below surface (as measured on low side).

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

Standard 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.

Specific Conditions:

- To ensure a watertight joint, the inlet and outlet of all tanks shall be equipped with an approved pipe penetration boot.
- The septic and pump tanks must be watertight. The installer shall either provide documentation that the tank has been leak tested by the manufacturer or be prepared to run leak testing (hydrostatic or vacuum testing in the ready- to-use-state) at the site.
- No foundation drain.

WASTEWATER TREATMENT SYSTEM PLANS

PROJECT INFORMATION

Wastewater System	New		.0403 Eng Low Flow	No
Wastewater Strength	Domestic			
Effluent Standard	DSE			
Water Supply	Public Water			
Facility Type	Residential			
Design Wastewater Flow	480	gpd	gal/unit	120
Basis for Flow	4	bedrooms	max occupancy	8
Basement	No		Fixtures in basement?	No
Crawl Space	No		Slab Foundation	Yes

PROPERTY INFORMATION

County	Harnett				
Site Address	Barrow Ct, Angier, NC				
S/D Name and Lot#	Lot 2 Ph 1 Riverfall SD				
PIN	0682-29-6960.000				
County PID	040682 0131 04				
Size (Acre)	1.63				

APPLICANT INFORMATION

Name	Mattamy Homes, LLC		
Mailing Address 11000 Regency Parkway, Suite 110			
	Cary, NC 27518		
Telephone Number	919-625-9546		
E-mail Address	Drew.Brody@mattamycorp.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 Proulx					

HAL OWEN & ASSOCIATES, INC.

Septic System Design Specifications

Proposed Design Daily Flow	480	gpd	Drainfield Meeets Requ	uirements:
Septic Tank Size (minimum)	1000	gallons	.0508 Available Space	Yes
Pump Tank Size (minimum)	NA	gallons, if required	.0601 Setbacks	Yes

Initial System

*Cool	Detailed	Decian	Decemetere
See	Detalled	Design	Parameters

System Type	IIb – Accepted	wastewat	er gravity sys	tem		
Pump Required	No			ft TDH at		GPM
Trenches:	Accepted (25%	5 reduction	n) System			-
Design LTAR		0.40	gal/day/ft ²	Sapr	olite System	No
Total Trench/ Bed Length		300	feet		Fill System	No
Trench Spacing		9	ft on center			
Usable soil depth	to LC	46	inches	Soil Cove	r 6	inches
Maximum Trench Depth		24	inches, mea	asured on downhi	Il side of trei	nch
Artificial Drainage Required		No				

Repair System

System Type:	IIb - Accepted	wastewat	er gravity system				
Trenches:	Accepted (25% reduction) System						
Design LTAR		0.40	gal/day/ft ²	Saprolite System No			
Total Trench/ Bed Length		300	feet	Fill System No			
Trench Spacing		9	ft on center				
Usable soil depth to LC		46	inches				
Maximum Trench Depth of		24	inches, measured on downhill side of trench				
Pump Required		No					

Potential Drainlines flagged at site on 9-ft centers.

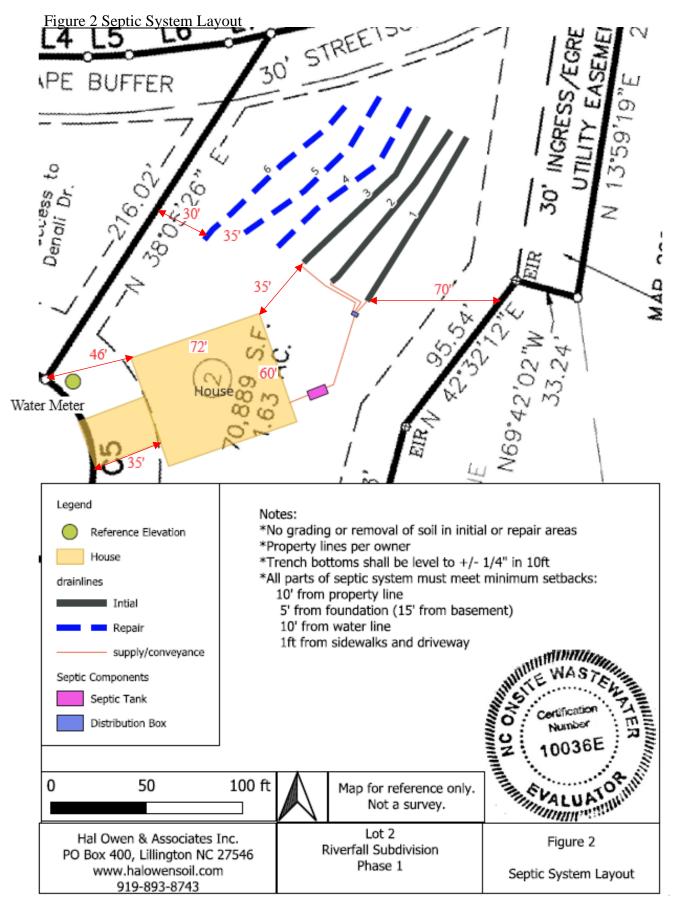
		Relative	Drainline	Field
Line #	Color	Elevation (ft)	Length(ft)	Length(ft)
1	R	100.85	100	133
2	Y	100.60	100	149
3	W	100.27	100	114
4	В	99.98	100	118
5	R	99.71	100	115
6	Y	99.36	100	115
Septic Tank:		101.17		
Reference Elev:		100.00		

Notes:

*No grading or removal of soil in initial or repair areas *Property lines per owner

*Trench bottoms shall be level to +/- 1/4" in 10ft

*All parts of septic system must meet minimum setbacks



Initial System Specifications

Gravity System Design Criteria

DESIGN DAILY F	LOW	480gall	ons	SOIL LTAR:	0.40	_gpd/ft ²
TANK (minimum) Septic Tank:	1000 gall	ons			
SUPPLY LINE	Length (ft): slope =		iameter: <u>3</u> imum slope of supply li			
ŀ	Maximum Trenc Trench height: h Length Factor: Absorption Area: Trench Length:	h Depth of <u>12</u> <u>75</u> <u>900</u> ft ² <u>3</u>	nes Effective	m measured on do Trench width: Trench Width: h Linear Length: ft =	wnhill side 3 4 300 300	ft ft ft ft
Septic Tank Ground Elev (ft)= 101.17 ft	Ta Depth (in) = Elev (ft)=		<i>D-Box</i> Elev (ft) 99.95)=	Trench Ground Elev (ft)= 100.85	-
		₩/	D-botomorphic botomorphic bo	Drain	lline drawing N.	Trench Bottom Elev (ft)= 98.85

*Outlet depth of septic tank is dependent 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	LOW _	480	gallons	:	SOIL LTAR:	0.40	gpd/ft ²
TANK (min)	Septic Tank:	1000	gallons				
SUPPLY LINE	Length (ft): slope =	80 1.5 7 %	Diameter		" SCh 40 pvc is 1/8" per foot (%		
TRENCHES	Drainline Type: A						_
	Maximum Trench	Depth of		_	asured on do	wnhill side	•
	Trench height:	12	inches		rench width:	3	ft
	h Length Factor:	75	%		ench Width:	4	ft
	Absorption Area:	900	ft ²		inear Length:	300	ft
Actua	I Trench Length:	3	_ X	100	_ft = _	300	ft
Crowity Distri	hutian Cabana	41.0					
Gravity Distri	bution Schema	luc					
Septic Tank	Tan	k Outlet*		D-Box		Trench	
Ground						Ground	
Elev (ft)=	Depth (in) =	10		Elev (ft)=		Elev (ft)=	
101.17 ft		100.34	-	99.08		99.98	
		100.01	-			00.00	-
			Supply Lin	D-box e	Trench Drain	line	Trench Bottom Elev (ft)= 97.98
n International and Commence and	the second secon					drawing N	

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