

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

<u> </u>	New	_Expansion	Repair	Relocation	Relocation of Repair Area
Owner or Legal Representation Name: Mattamy Home		ormation:			
		Parkway Su	ite 110c:	Carv	State: NC Zip: 27518
Phone: 919-625-9546					
Thone.		Elliali		g	
Authorized Onsite Was	tewater Eva	luator Informa	tion:		
Name: Hal Owen				Certifica	
Mailing address: PO B					State: NC Zip: 27546
Phone: 910-893-8743		Email: _	nal@halowe	ensoil.com	
Site Location Information Site address: 18 Bering Tax parcel identification Lot 14 Ph 1, Riverfall	g Cir, Angie n number or	subdivision lo		ber of property:County: Harn	 pett
System Information: Wastewater System Typ Daily Design Flow: 480 Saprolite System: Water Supply Type:	gpd Yes 🗸	_No Sub Vell _ <b>√</b> Publi	surface Oper	rator Required: _ oly Spring _	Yes No
Facility Type:					
✓ Residential 4	# Bedroom	8 Maxi	mum # of O	ccupants	
Public Assembly	Type of Pub	olic Assembly	and Basis for	: Flow:	
Required Attachments:  V Plat or Site Plan Evaluation of So	il and Site F	eatures by Lice	ensed Soil Sc	cientist	
	s and rules g	is accurate and	d complete to e wastewater 2025	the best of my k	
Signature of Authorized	Onsite Was	tewater Evalua	ator:	Hal 01 Prew Brod	
Signature of Owner or L	egal Repres	entative:	Z	Prew Brod	ly
required (if any) to the l evaluator shall be transf	ocal health of erable to a n	department. A new owner with	n onsite was	tewater system au	omitting a complete NOI to Construct and the fee athorized by an authorized onsite wastewater lonsite wastewater evaluator.
Local Health Department Signature of Local Health					Date:



OP ID: SGW

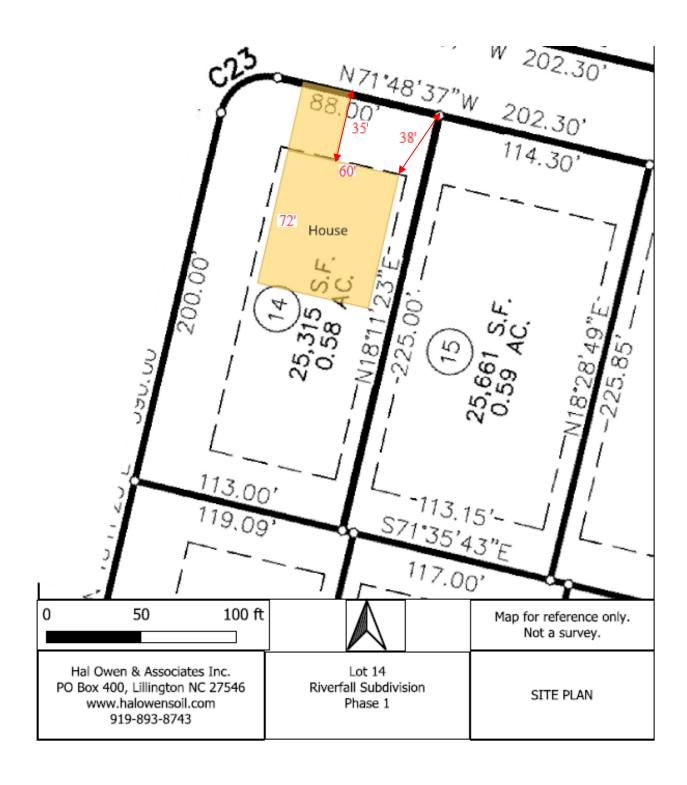


## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/05/2023

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.

lf	SUBROGATION IS WAIVED, subject nis certificate does not confer rights to	to th	ne te	rms and conditions of th	e polic	y, certain p	olicies may				
	DUCER	, 1110		0-893-5707	CONTA	CT SHARO	V WOODY				
INS	URANCE SERVICE CTR -LILLING LINGTON BRANCH OFFICE				PHONE (A/C, No, Ext): 910-893-5707 FAX (A/C, No): 910-893-2077					93-2077	
PO	Box 1565				E-MAIL	SS. SWOOD	Y@ISCFAY	.COM	(A/O, NO).		
	LINGTON, NC 27546 NIEL L. BABB				ADDRE			DING COVERAGE			NAIC#
ואט	VICE E. DABB				INCLIDE		TONE NAT				IVAIC#
INCI	IPED						TORL WATE	OTTAL			
HĂĹ	IRED OWEN & ASSOCIATES, INC.				INSURE						
	BOX 400 INGTON, NC 27546				INSURE						
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				E NUMBER:				REVISION NUM			
	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY RE										
	ERTIFICATE MAY BE ISSUED OR MAY F										
	XCLUSIONS AND CONDITIONS OF SUCH I				BEEN F						
INSR LTR	TYPE OF INSURANCE	INSD	SUBR WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)		LIMIT	3	
	COMMERCIAL GENERAL LIABILITY							EACH OCCURREN		\$	
	CLAIMS-MADE OCCUR							DAMAGE TO RENT PREMISES (Ea occ	ED urrence)	\$	
								MED EXP (Any one	person)	\$	
								PERSONAL & ADV	INJURY	\$	
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREG		\$	
	POLICY PRO- JECT LOC							PRODUCTS - COM		\$	
	OTHER:								.,0.,,.00	\$	
	AUTOMOBILE LIABILITY							COMBINED SINGLE	LIMIT	\$	
	ANY AUTO							(Ea accident) BODILY INJURY (Po	or norson)	\$	
	OWNED SCHEDULED AUTOS ONLY										
	HIRED NON-OWNED AUTOS ONLY							PROPERTY DAMAG (Per accident)		\$	
	AUTOS ONLY AUTOS ONLY							(Per accident)		\$	
	UMBRELLA LIAB OCCUR									\$	
	UMBRELLA LIAB OCCUR EXCESS LIAB CLAIMS-MADE							EACH OCCURREN	CE	\$	
								AGGREGATE		\$	
	DED RETENTION \$							PER	OTH-	\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY							PER STATUTE	OTH- ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A						E.L. EACH ACCIDE	NT	\$	
	(Mandatory in NH)  If yes, describe under							E.L. DISEASE - EA	EMPLOYEE	\$	
_	DÉSCRIPTION OF OPERATIONS below			4050000440004		04/07/0000	04/07/0004	E.L. DISEASE - POI	LICY LIMIT	\$	4 000 000
Α	PROFESSIONAL LIAB.			42ESP00143901		01/2//2023	01/27/2024				1,000,000
								AGGREGATE			2,000,000
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHICL	ES (A	ACORE	D 101, Additional Remarks Schedu	le, may b	e attached if mo	re space is requir	red)			
CE	RTIFICATE HOLDER				CANC	ELLATION					
UE	NIIFICATE FIOLDER				CAN	LLLATION					
	MATTAMY HOMES, LLC	ст	E 4	10	THE	EXPIRATION	N DATE THE	ESCRIBED POLICE EREOF, NOTICE CY PROVISIONS.			
	11000 REGENCY PRKWY CARY, NC 27518	, J1	<u> '</u>	10	AUTHO	RIZED REPRESE	NTATIVE				
	OAK1, 110 21010				ري	שבריפוום	· eles				
								<i>^</i>			



# 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

22 January 2024

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

Reference: AOWE Evaluation

18 Bering Cir, Angier, Harnett Co., NC

Lot 14 Ph 1, Riverfall SD PIN 0682-29-2227.000

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.

Continuation TITLE VAS TO Number 10036E



Sincerely,

Hal Owen

Senior Licensed Soil Scientist

**Authorized Onsite Wastewater Evaluator** 

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#### **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.

Notice of Intent to Construct – 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.

<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 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.

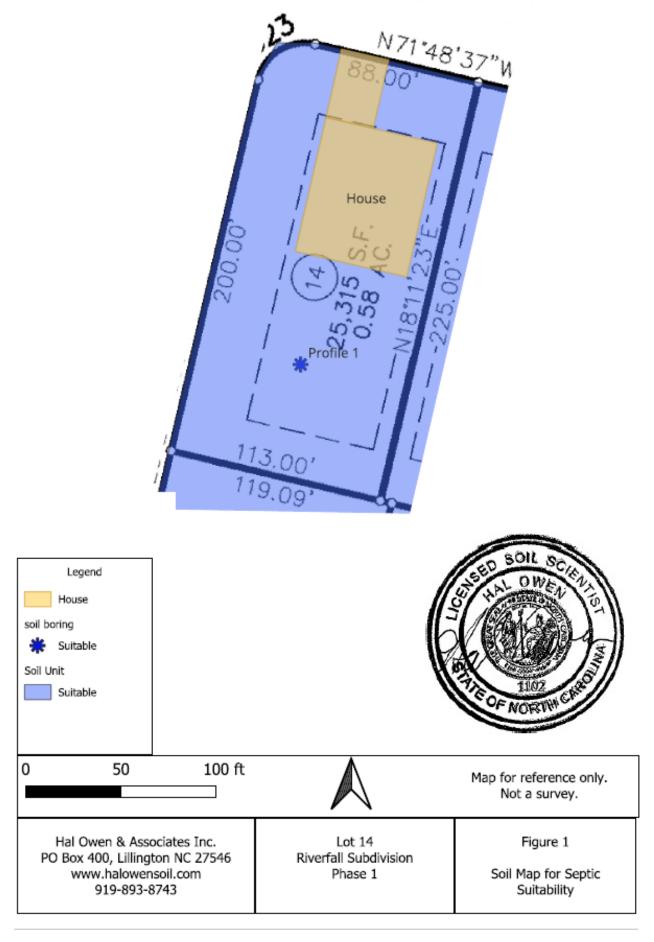
### **EXISTING SITE CONDITIONS**

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.

#### **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 friable sandy loams to about 34 inches, underlain by a friable sandy clay loam layer that extended to greater than 48 inches below ground surface. Evidence of a soil wetness condition was not observed within 48 inches below surface. These soils appear adequate to support long-term acceptance rates of 0.6 gal/day/ft² for conventional drainlines.



# Soil/Site Evaluation Form for On-Site Wastewater System

OWNIED MANCE.

OWNER N.	AIVIE.	Manamy F	iomes, LLC	OWNER	ADDICESS.	11000 Regency Parkway, Sun	e 110	
PROPOSEI	FACILITY	Residentia	1 P	ROPOSED DESI	IGN FLOW:	480 ROPERTY SIZE:	0.58	
LOCATION	OF SITE:	18 Bering	Cir, Angier,	NC		PIN: 0682-29-2227.00	0	
WASTEWA	ATER TYPE:	Domestic				COUNTY: Harnett		
WATER SU	JPPLY:	Public Wat	ter	WATE	R SUPPLY	SETBACK: 10		
EVALUAT	ION METHO	D: AUGE	ER BORING	X	PIT	CUT		
EVALUAT	EVALUATED BY: Hal Owen, LSS 1102 and Steven Boor DATE EVALUATED: 10/24/2023							
			INITIAL SY	YSTEM		REPAIR SYSTE	M	
AVAILA	BLE SPACE	720	ft <sup>2</sup> trench b	ottom		720 ft <sup>2</sup> trench bottom	l	
SYS	TEM TYPE	Accepted (	(25% reducti	on) System		Accepted (25% reduction	) System	
	SITE LTAR	0.50	gpd/ft <sup>2</sup>			0.50 gpd/ft <sup>2</sup>		
MAX TREN	ICH DEPTH	30	inches (mea	sured on downh	ill side)	30 inches (measured	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			
0-7	10YR 5/4	VFR	SL	GR	SEXP	LANDSCAPE POSITION	L	
7-24	10YR 7/4	VFR	SL	GR	SEXP	SOIL WETNESS DEPTH	>48"	
24-34	10YR 6/8	FR	SL	SBK	SEXP	SOIL WETNESS COLOR		
34-48	10YR 6/8	FR	SCL	SBK	SEXP	SOIL DEPTH	48"	
						SAPROLITE CLASS	NA	
						RESTRICTIVE HORIZON	NA	
						SLOPE %	3	
PROFILE C	LASSIFICA	TION	Suitable	LTAR gpd/ft <sup>2</sup>	0.6	SLOPE CORRECTION (IN)	1.1	
COMMEN	Γ							

## LEGEND OF ABBREVIATIONS FOR SITE EVALUATION FORM

	TEXTURE	TEXTURE		.1955 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 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
TS - Toe Slope		C - Clay		
		SiC - Silty Clay		
		O - Organic		none
<u>STRUCTURE</u>	MOIST CONSIST			<u>SISTENCE</u>
G - Single Grain	VFR - Very Fria	ıble		on Stick
M - Massive	FR - Friable			ghtly Sticky
CR - Crumb	FI - Firm			oderately Stick
GR - Granular	VFI - Very Firm	n	VS - Ve	ry Sticky
SBK - Subangular Blocky	EFI - Extremel	y Firm		
ABK - Angular Blocky			NP - No	n Plastic
PL - Platy	MINERALOGY		SP - Sli	ghtly Plastic
PR - Prismatic	SEXP - Sligh	tly Expansive	MP - Mo	oderately Plastic
	EXP - Expa	nsive		
MOTTLES				
f - few 1 - fine		F - Faint		
c – common 2 - medi		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 240 linear feet of Accepted Status drainlines utilizing a 25% reduction in total drainline length (Figure 2). A long-term application rate (LTAR) of 0.5 gal/day/ft² was used to design the nitrification field. A distribution box will be used to deliver effluent in parallel distribution to three 80-ft long drainlines. The drainlines shall be installed on contour with maximum trench bottom depths at 30 inches below surface (as measured on low side).

The repair septic system is proposed as a gravity driven system to 240 linear feet of Accepted Status drainlines utilizing a 25% reduction in total drainline length (Figure 2). A long-term application rate (LTAR) of 0.5 gal/day/ft² was used to design the nitrification field. Effluent will be serially distributed to three unequal length drainlines. The drainlines shall be installed on contour with maximum trench bottom depths at 30 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.

## 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	18 Bering Cir, Angier, NC
S/D Name and Lot#	Lot 14 Ph 1 Riverfall SD
PIN	0682-29-2227.000
County PID	040682 0131 16
Size (Acre)	0.58

## 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

# 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)	1000	gallons, if required	.0601 Setbacks	Yes

Initial System \*See Detailed Design Parameters

System Type	IIb - Accepted	wastewate	er gravity sys	tem			
Pump Required	No				ft TDH at		GPM
Trenches:	Accepted (25%	reduction	n) System				
Design LTAR		0.50	gal/day/ft <sup>2</sup>		Sapro	lite System	No
Total Trench/ Bed Length		240	feet			Fill System	No
Trench Spacing		9	ft on center				
Usable soil depth to LC		48	inches		Soil Cover	6	inches
Maximum Trench Depth		30	inches, mea	sured	on downhil	side of trer	nch
Artificial Drainage	e Required	No					

## Repair System

Pump Required

System Type:	IIb – Accepted wastewater gravity system				
Trenches:	Accepted (25%	6 reduction	n) System		
Design LTAR		0.50	gal/day/ft <sup>2</sup>	Saprolite System	No
Total Trench/ Bed Length		240	feet	Fill System	No
Trench Spacing		9	ft on center		
Usable soil depth to LC 4		48	inches		
Maximum Trench	n Denth of	30	inches measured	on downhill side of trend	·h

No

Potential Drainlines flagged at site on 9-ft centers.

Totorical Brammileo hagged at old off of it contore.				
		Relative	Drainline	Field
Line #	Color	Elevation (ft)	Length(ft)	Length(ft)
1	Y	100.55	80	85
2	В	100.29	80	90
3	W	99.86	80	90
4	R	99.60	90	90
5	Y	99.33	95	95
6	В	98.97	55	56
Septic Tank:		100.71		
Reference Flev:		100.00	I	

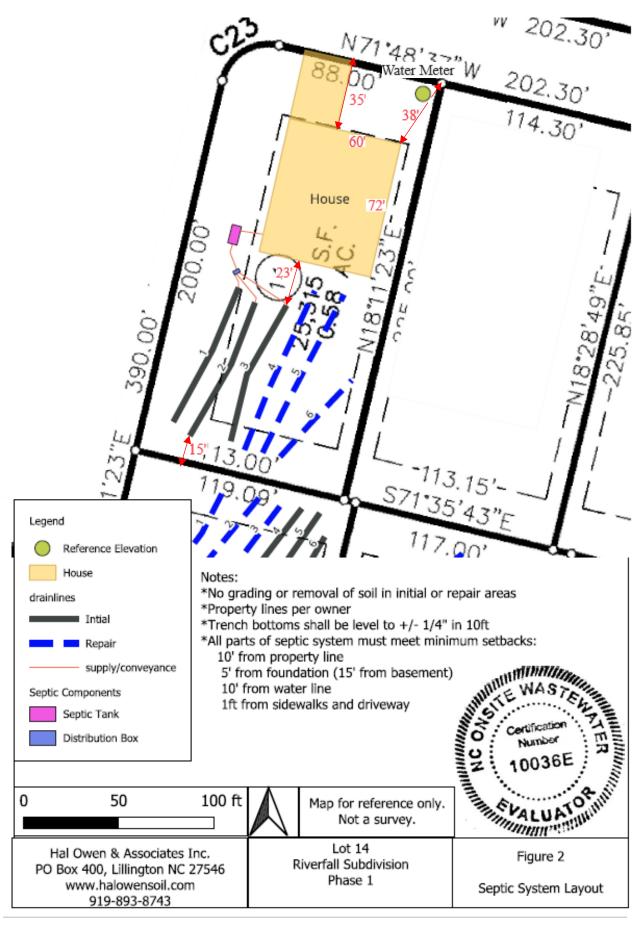
#### Notes:

<sup>\*</sup>No grading or removal of soil in initial or repair areas

<sup>\*</sup>Property lines per owner

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

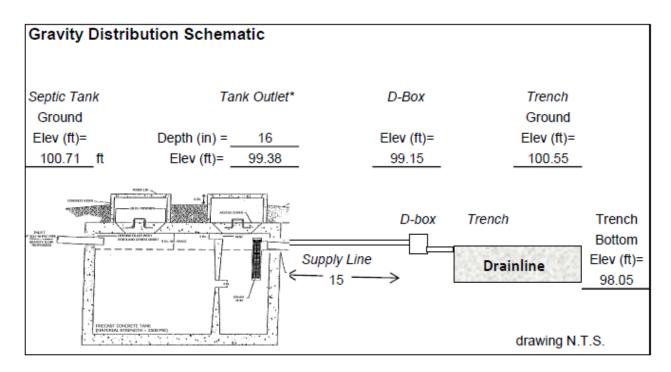
<sup>\*</sup>All parts of septic system must meet minimum setbacks



## **Initial System Specifications**

## Gravity System Design Criteria

gpd/ft2 **DESIGN DAILY FLOW** 480 gallons SOIL LTAR: 0.50 TANK (minimum) Septic Tank: 1000 SUPPLY LINE Length (ft): 15 Diameter: 3 "sch 40 pvc slope = 1.51% \*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 30 Trench height: 12 inches Trench width: ft Trench Length Factor: 75 Effective Trench Width: ft 720 Minimum Linear Length: Absorption Area: 240 Actual Trench Length: Х 80

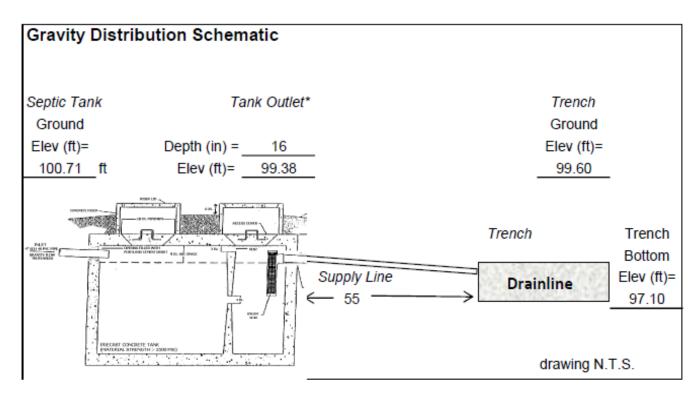


<sup>\*</sup>Outlet depth of septic tank is dependant upon the depth of the plumbing stub out from the home. A pump tank should be added if gravity distribution cannot be demonstrated.

## Repair System Specifications

## Gravity System Design Criteria

DESIGN DAILY FLOW 480 SOIL LTAR: 0.50 gpd/ft<sup>2</sup> gallons TANK (minimum) Septic Tank: 1000 SUPPLY LINE Length (ft): 55 Diameter: 3 "sch 40 pvc slope = 2.32% \*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: 4 ft 720 ft<sup>2</sup> Absorption Area: Minimum Linear Length: 240 ft Actual Trench Length: Х 240 240



<sup>\*</sup>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.