



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: James Rumley

Name: Caruso Homes

Mailing address: 110 Horizon Drive - Suite 320 City: Raleigh State: NC Zip: 27615

Phone: 240-886-3229

Email: jrumley@carusohomes.com

Authorized Onsite Wastewater Evaluator Information:

Name: Alex Adams

Certification #: AOWE# 10021E

Mailing address: 1676 Mitchell Road City: Angier State: NC Zip: 27501

Phone: 919-414-6761

Email: alexadams@bcsoil.com

Site Location Information:

Site address: Lot #14 (Magnolia Acres) 766 Magnolia Acres Ln - Fuquay-Varina NC 27501

Tax parcel identification number or subdivision lot, block number of property: PIN# 0633-03-0378

County: Harnett

System Information: Accepted Status

Wastewater System Type: Type III (b)

Daily Design Flow: 360 gallons/day

Saprolite System: ☐ Yes ☒ No Subsurface Operator Required: ☐ Yes ☒ No

Water Supply Type: ☐ Private Well ☒ Public Water Supply ☐ Spring ☐ Other:

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 Siteplan

☒ Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 25th day of September 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 25th day of September 2030.

Signature of Authorized Onsite Wastewater Evaluator: Alex Adams

Signature of Owner or Legal Representative: James Rumley

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: _____

Adams Soil Consulting, PLLC
1676 Mitchell Road
Angier, NC 27501
919-414-6761
alexadams@bcsoil.com

September 25, 2025
Project #2110

“This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-336.2

RE: Magnolia Acres -Lot #14 – 766 Magnolia Acres Ln – Fuquay-Varina, NC - 4-bedroom Single Family Residence (PIN# 0633-03-0378)

To whom it may concern:

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules 15ANCAC 18E. From this evaluation, ASC is providing the attached septic system design for a new single-family home sized for a 360 gallon/day septic system. The home is intended to be built with 4-bedrooms and a separately prepared “Engineered Flow Reduction” will be submitted in conjunction with this permit by the bulder.

The suitable soils found on the subject property were somewhat variable in the initial and repair areas. The area designated for the initial/primary septic system (see attached septic plan) was found to contain soils with greater than 24 inches in depth before a restrictive horizon was encountered.

The initial and primary septic fields for the new home were sized based on a flow rate of 360 gallons/day and utilizing Accepted Status system for the initial and a PPBPS repair system. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the repair (if needed) system on contour, see attached site plan for the primary system and repair. No underground utilities, water lines, or sprinkler systems shall be placed into the initial or repair septic areas. Installation must meet all state and local county regulations for septic system installation. The trenches must be installed in the same location as the site plan. If flags trench flags are missing at the time of installation, they must be remarked by Adams Soil Consulting staff. Contact Alex Adams at 919-414-6761. A preconstruction conference is required with the septic installer prior to construction activities at least 14 days in advance of construction activities.

This report does not guarantee the future function of any waste water disposal system installed.

If you have any questions regarding the findings on the attached site plan or in this report, please feel free to contact me anytime.

Sincerely,



Alex Adams
NC Licensed Soil Scientist #1247
AOWE Certification: 10021E



Magnolia Acres

Lot 14

4 BR, W/ 360 GPD

Harnett County

*House footprint to be field staked by surveyor and system verified prior to any construction

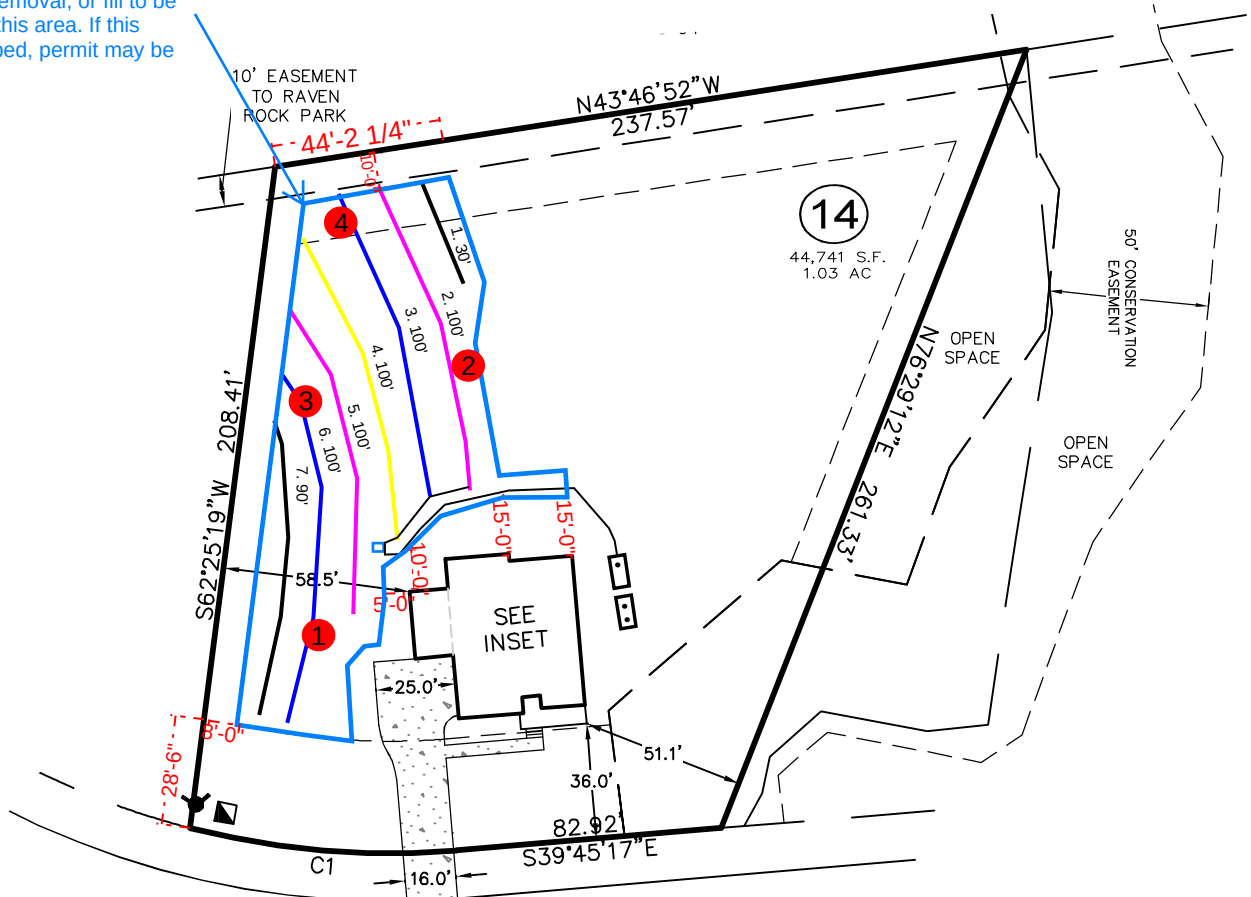
**Septic area must not be altered by construction activities.

***No cuts of 2' or greater within 15' of septic area

**** Recommend protective barrier around septic field during construction.

*If plumbing is not sufficient a pump tank will be required to septic field

Area only to be disturbed for septic purposes only. No grading, soil removal, or fill to be added within this area. If this area is disturbed, permit may be revoked.



MAGNOLIA ACRES LANE

50' PUBLIC R/W

INITIAL:

Lines 1-4 (330')

Accepted Status

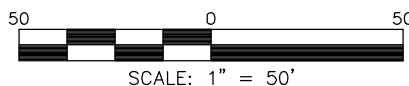
Pressure Manifold

REPAIR:

Lines 5-7 (290')

PPBPS

Pressure Manifold



Adams
Soil Consulting
919-414-6761

Magnolia Acres

Lot 14

4 BR, W/ 360 GPD

Harnett County

*House footprint to be field staked by surveyor and system verified prior to any construction

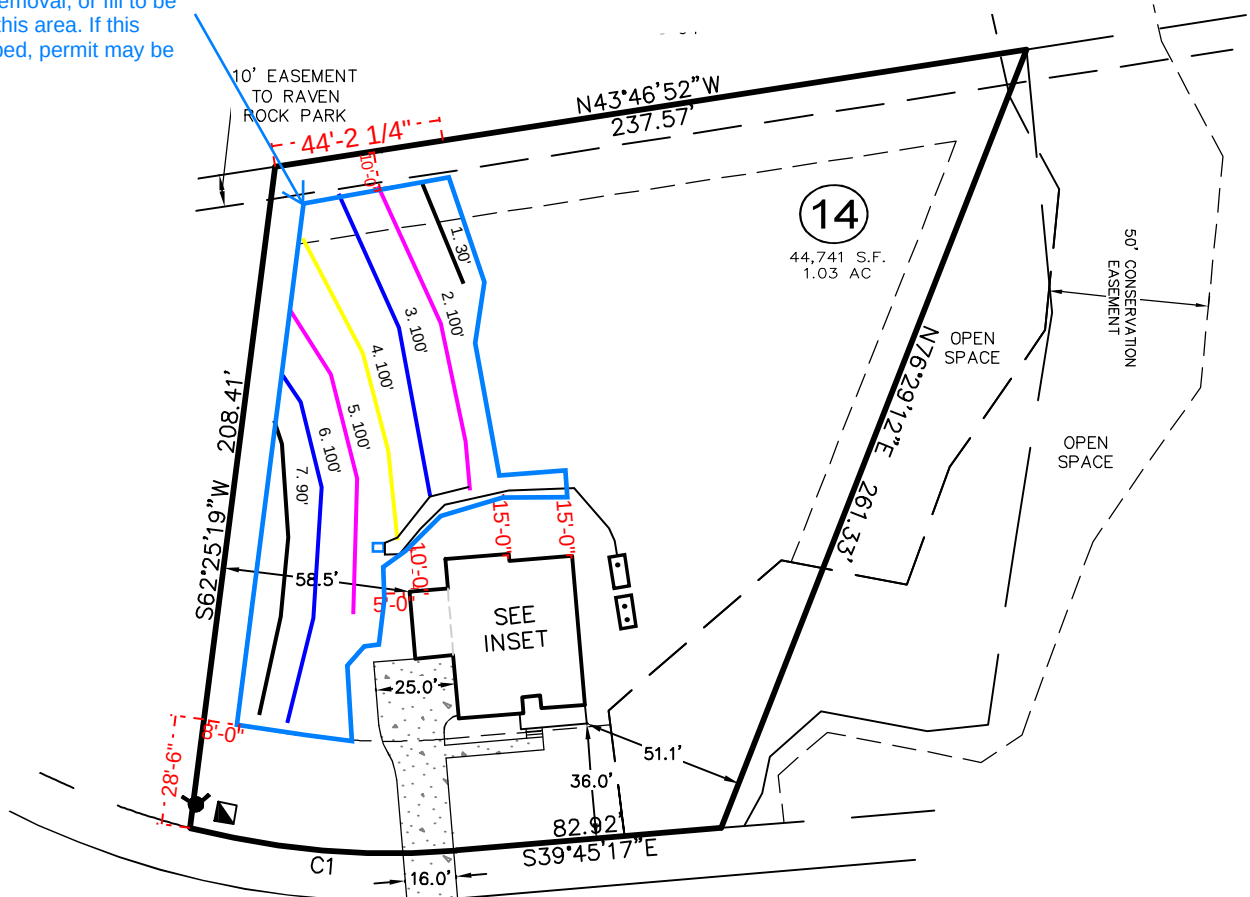
**Septic area must not be altered by construction activities.

***No cuts of 2' or greater within 15' of septic area

**** Recommend protective barrier around septic field during construction.

*If plumbing is not sufficient a pump tank will be required to septic field

Area only to be disturbed for septic purposes only. No grading, soil removal, or fill to be added within this area. If this area is disturbed, permit may be revoked.



MAGNOLIA ACRES LANE

50' PUBLIC R/W

INITIAL:

Lines 1-4 (330')

Accepted Status

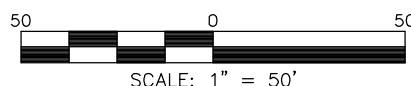
Pressure Manifold

REPAIR:

Lines 5-7 (290')

PPBPS

Pressure Manifold



Adams
Soil Consulting
919-414-6761

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

OWNER: Caruso Homes DATE EVALUATED: 9/24/2025
ADDRESS: _____
PROPOSED FACILITY: Single Family 4 BR PROPOSED DESIGN FLOW (.0400): 360 gpd PROPERTY SIZE: 1.02 Acres
LOCATION OF SITE: 766 Magnolia Acres Ln, Fuquay Varina NC 27526 PROPERTY RECORDED: Y
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 CORRE CTION
			.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ		
1	Linear 12%	0-2	GR/SL	VFR,SEXP,NS	N.O	34"	N.O	N.O	U/P.S .275	4"
		2-20	SBK C	FI,SEXP,NS						
		20-34	WKSBKCL	Fr,SEXP,NS						
2	Linear 12%	0-2	GR/SL	VFR,SEXP,NS	N.O	34"	N.O	N.O	U/P.S .275	4"
		2-30	SBK C	FI,SEXP,NS						
		30-34	WKSBKCL	Fr,SEXP,NS						
3	Linear 12%	0-6	GR/SL	VFR,SEXP,NS	N.O	34"	N.O	N.O	U/P.S .275	4"
		6-30	SBK C	FI,SEXP,NS						
		30-34	WKSBKCL	FR,SEXP,NS						
4	Linear 12%	0-10	GR/SL	VFR,SEXP,NS	N.O	34"	N.O	N.O	U/P.S .275	
		10-34	SBK C	FI,SEXP,NS						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICATION (.0509): U/P.S EVALUATED BY: Bobby Weaver/Alex Adams OTHER(S) PRESENT: _____
Available Space (.0508)	S	S	
System Type(s)	III B	III B	
Site LTAR	.275	.275	
Maximum Trench Depth	18"	18"	

Comments: _____

RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Magnolia Acres Lot 14

of BDR: 4 Daily Flow: 360 gal/day L.T.A.R.: 0.2750 gal/day/sq.ft

Septic Tank: 1200 gals Pump Tank: 1200 gals Sq. Foot: 990 System Type: Accepted

Number of Taps: 3 **Length of Trenches:** 330 **ft(See Tap Chart for Details)**

Depth of Trenches: 18 in **Manifold Length:** 36 in

Manifold Diameter: 4in sch 80pvc **Tap Configuration:** 6 in spacing 1 side(s) of manifold

Supply Line: length: 75 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 3.55 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft **Elevation Head:** 6.00 ft

Total Head: 11.55 ft **Pump to Deliver:** 32.70 gals/min at 11.55 ft head

Dosing Volume: 161 gals,

Drawdown: 161 gals divided by 20 gals/in = 8.0 inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

TAP CHART

Benchmark		is = 100.00	set at				Design Head:	2		
Pump tank elev.			100.00	Pump elev.	95.00		Manifold elev.	101.00		
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels (PPBPS)
1 & 2	Orange		100.00	130	3/4in SCH 40	12.5	137.61	390	0.3529	
3	Red		100.00	100	3/4in SCH 80	10.1	111.19	300	0.3706	
4	Yellow		100.00	100	3/4in SCH 80	10.1	111.19	300	0.3706	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			Total Feet =	330	gal/min =	32.70		LTAR =	0.2750	
			Feet Required =	327	Velocity =	3.13		(ltar + 5%)	0.2888	
Total # of Panels (PPBPS)				Des. Flow	360			(ltar w/25% red)	0.3667	
% of Dose Vol.		75		Pump Run=	11.01			(ltar + 5%)	0.3850	
Dose Volume		161		Tank Gal/IIN	20					
Dose Pump Time		4.92		Elev. Head	6.00					
Drawdown in Inches		8.0								

Comments:	



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/22/2025

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.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Wade Associates, LLC 250 Pollock St. New Bern NC 28560	CONTACT NAME: Angela Sensenig PHONE (A/C, No, Ext): (252)631-5269 E-MAIL ADDRESS: asensenig@wadeict.com FAX (A/C, No): (252)649-2443
INSURED Alex Adams, DBA: Adams Soil Consulting 1676 Mitchell Rd. Angier NC 27501	INSURER(S) AFFORDING COVERAGE INSURER A: Lloyd's of London INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:
	NAIC # A1122J

COVERAGES**CERTIFICATE NUMBER: 25-26****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☐ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ ALL OWNED AUTOS ☐ HIRED AUTOS ☐ SCHEDULED AUTOS ☐ NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB ☐ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED ☐ RETENTION \$ ☐						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y / N ☐ N / A						PER STATUTE ☐ OTH-ER ☐ E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Errors & Omissions			PSN0040221161	1/31/2025	1/31/2026	Each Occurrence \$1,000,000 General Aggregate \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER**CANCELLATION*****FOR INFORMATIONAL PURPOSES ONLY***XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

N Whitsett/RACHEL

© 1988-2014 ACORD CORPORATION. All rights reserved.