

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

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 #45 (Magnolia Acres) 841 Magnolia Acres Ln - Fuquay-Varina NC 27501 Tax parcel identification number or subdivision lot, block number of property: PIN# 0633-03-4069 County: Harnett							
System Information: Accepted Status Wastewater System Type: Type III (b) Daily Design Flow: 480 gallons/day Saprolite System:YesXNo Subsurface Operator Required:YesXNo Water Supply Type:Private WellX_Public Water Supply SpringOther:							
Facility Type:							
X_Residential4_# Bedrooms8_ Maximum # of OccupantsBusiness							
Public Assembly Type of Public Assembly and Basis for Flow:							
Requird_Attachments:x_Plat_or_Siteplanx_ Evaluation of Soil and Site Features by Licensed Soil Scientist							
Attest: On this the 3rd day of November 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 3rd day of November 2030.							
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: Date:							

Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761

alexadams@bcsoil.com

November 3, 2025 Project #2110

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

RE: Magnolia Acres -Lot #45 – 841 Magnolia Acres Ln. – Fuquay-Varina, NC - 4-bedroom Single Family Residence (PIN# 0633-03-4069)

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 480 gallon/day septic system.

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 480 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





841 Magnolia Acres LN Lot #45 Magnolia Acres Caruso Builders Harnett County PIN: 0633-03-4069

480 gallon/day Septic Design

*Not a Survey Sketched from a plot plan supplied by owner

System: Pressure Manifold

Lines: 3-6 (400')

0.3 LTAR

18" Max Trench Bottom Accepted Status System Repair: Pressure Manifold

Lines: 1-2, 7 (270')

0.35 LTAR

18" Max Trench Bottom

PPBPS

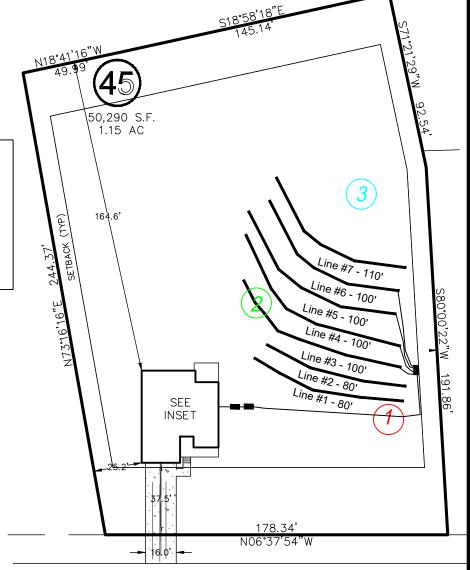
**1000 Gallon Septic and Pump Tanks
Tank and trenches to be located minimum of 10'
from any property line and minimum of 5'
from any building foundation.

*Do Not Cut, Fill, or Alter Drainfield or Repair Area

*Comply with all setbacks

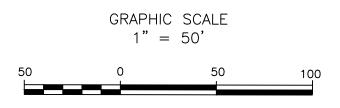
*Contact local health dept. and/or Alex Adams prior to or during installation with any questions or concerns.

- Profile Description #1
 See Soil/Site Evaluation
 Data Form
 - Profile Description #2
 See Soil/Site Evaluation
 Data Form
- Profile Description #3
 See Soil/Site Evaluation
 Data Form



MAGNOLIA ACRES LANE

Adams
Soil Consulting
919-414-6761
Job #2110
11-3-25



Lot 45 Magnolia Acres PRESSURE MANIFOLD DESIGN -Initial

Caruso Homes

of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.3000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 1200 System Type: Accepted

Number of Taps: 4 Length of Trenches: 400 ft(See Tap Chart for Details)

Depth of Trenches: 18 in Manifold Length: 42 in

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

Supply Line: length: 50 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: $\underline{2.27}$ ft(supply line length + 70' for fittings in pump tank)

Design Head: $\underline{2}$ ft Elevation Head: $\underline{10.00}$ ft

Dosing Volume: <u>182</u> gals,

Drawdown: 182 gals divided by $\underline{21.4}$ gals/in = $\underline{8.5}$ 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

TAP CHAIL!											
Benchmark	<u>0</u>	is = 100.00	set at				Design Head:	2			Change in
Pump tank elev.		<u>18</u>	95.00	Pump elev.	90.00		Manifold elev.	1.00		# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
3				100	1/2in SCH 40	7.11	120.00	300	0.4000		
4				100	1/2in SCH 40	7.11	120.00	300	0.4000		
5				100	1/2in SCH 40	7.11	120.00	300	0.4000		
6				100	1/2in SCH 40	7.11	120.00	300	0.4000		
			Total Feet =	400	gal/min =	28.44		LTAR =	0.3000		
			Feet Required =	400	Velocity =	2.72		(Itar + 5%)	0.3150		
Total # of Panels	(PPBPS)			Des. Flow	480			(Itar w/25% red)	0.4000		
% of Dose Vol.		70		Pump Run=	16.88			(Itar + 5%)	0.4200		
Dose Volume		182		Tank Gal/IN	21.4						
Dose Pump Time		6.40		Elev. Head	10.00						
Drawdown in Inch	nes	8.5									
Comments:											

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Carusso Homes

ADDRESS: 841 Magnolia Acres Ln

PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 480 gpd

APPLICATION DATE:

DATE EVALUATED: 10-31-25

PROPERTY SIZE: ~1.16 Acres

LOCATION OF SITE: 841 Magnolia Acres Ln

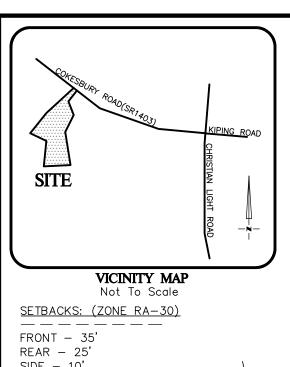
WATER SUPPLY: Public Water

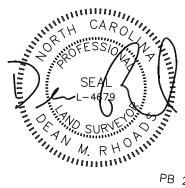
EVALUATION METHOD: Auger Boring TYPE OF WASTEWATER: Sewage

P	EVALUATION METHOD: Auger Boring TYPE OF WASTEWATER: Sewage								
R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
			.1941 STRUCTURE/ TEXTLSE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	Linear	0-31	SBK/C	FR,SS,SP,SEXP	NA	38"	S	N.O	P.S .3
1	Slope/15%	31-38	GR/SL	VFR,NS,NP,SEXP					
	Linear Slope/15%	0-40	SBK/C	FR,SS,SP,SEXP	NA	40"	S	N.O	P.S .3
	Linear	0-28	SBK/C	FR,SS,SP,SEXP	NA	40"	S	N.O	P.S .3
	Slope/15%	28-40	GR/SL	VFR,NS,NP,SEXP	214				1.2.2
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):					
Available Space (.1945)	s	S	SITE CLASSIFICATION (.1948): PS					
System Type(s)	Type III B	Type III B	EVALUATED BY:A. Adams OTHER(S) PRESENT:					
Site LTAR	0.3	0.3						

COMMENTS:_____Updated February 2014



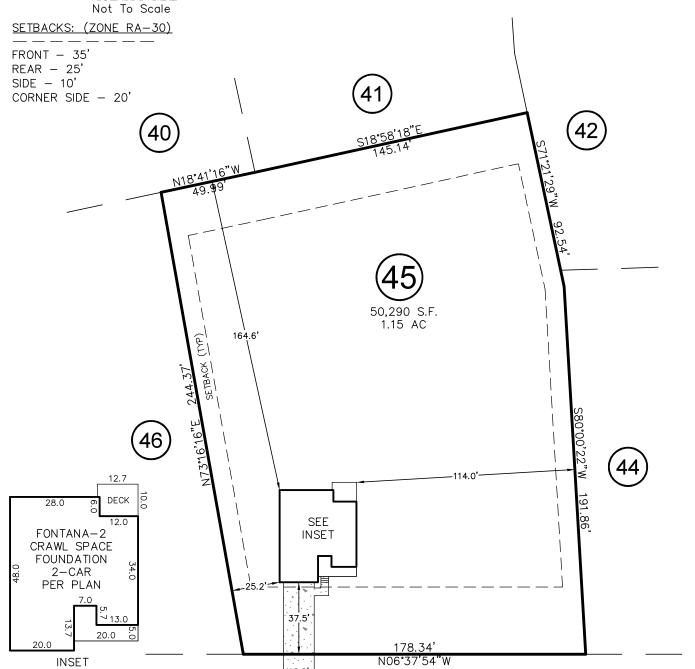


IMPERVIOUS SURFACE AREA						
DESCRIPTION	AREA					
HOUSE w/PORCH	1,788 S.F.					
HVAC PAD	18 S.F.					
DRIVEWAY & WALKS	630 S.F.					
TOTAL (PROPOSED)=	2,436 S.F.					
*TOTAL (ALLOWED)=	3,850 S.F.					

*PB 2025 PG 139







16.0

MAGNOLIA ACRES LANE

50' PUBLIC R/W

THIS DRAWING DOES NOT REFLECT AS—BUILT INFORMATION

PRELIMINARY PLAT NOT FOR RECORDATION, CONVEYANCES, OR SALES.

THIS PROPERTY MAY BE SUBJECT TO ANY AND ALL APPLICABLE DEED RESTRICTIONS, EASEMENTS, RIGHT-OF-WAY, UTILITIES AND RESTRICTIVE COVENANTS WHICH MAY BE OF RECORD OR IMPLIED

50 0 50 SCALE: 1" = 50'

N.T.S.

RESIDENTIAL LAND SERVICES, PLLC.

1917 Evans Road Cary, North Carolina 27513 Phone (919) 378-9316 Firm License # P-0873

HOUSE LOCATION PLOT PLAN

FOR

#841 MAGNOLIA ACRES LANE

LOT 45, MAGNOLIA ACRES SUBDIVISION

Hector's Creek Township, Harnett County, North Carolina

PROPERTY OF: CARUSO HOMES

MAP BOOK 2025 PAGE 139 DEED REFERENCE

DRAWN: JWW SURVEYED: N/A CHECKED: DMR DATE: OCTOBER 1, 2025



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 rec certificate holder in lieu of such endorsement(s).			ent on this ce	rtificate does not confei	rights to the			
PRODUCER	NAME:							
Wade Associates, LLC		PHONE (A/C, No, Ext): (252)631-5269 FAX (A/C, No): (252)649-2443						
250 Pollock St.	E-MAIL ADDRES	E-MAIL ADDRESS: asensenig@wadeict.com						
		INSURER(S) AFFORDING COVERAGE						
New Bern NC 28560	INSURE	INSURER A: Lloyd's of London						
INSURED	INSURE	RB:						
Alex Adams, DBA: Adams Soil Consulting	INSURE	RC:						
1676 Mitchell Rd.	INSURE	INSURER D:						
	INSURE	INSURER E:						
Angier NC 27501		INSURER F:						
COVERAGES CERTIFICATE NUMBER: 2		ED TO THE IN		REVISION NUMBER:	DEDIOD			
THIS IS TO CERTIF THAT THE POLICIES OF INS RANCE LISTED BEL INDICATED. NOT ITHSTANDING AN RE IREMENT, TERM OR CON CERTIFICATE MA BE ISS ED OR MA PERTAIN, THE INS RANCE AF E CL SIONS AND CONDITIONS OF S CH POLICIES. LIMITS SHO N	NDITION OF AN CONT	RACT OR OTH	HER DOC MEI BED HEREIN I	NT ITH RESPECT TO H	ICH THIS			
INSR ADDL SUBR LTR TYPE OF INSURANCE INSD WVD POL	ICY NUMBER	POLICY EFF POLICY EXP (MM/DD/YYYY) LIMITS						
COMMERCIAL GENERAL LIABILITY				EACH OCC RRENCE				
CLAIMS-MADE OCC R				DAMAGE TO RENTED PREMISES (Ea occurrence)				
				MED E P (Any one person)				
				PERSONAL ADV IN R				
GEN'L AGGREGATE LIMIT APPLIES PER:				GENERAL AGGREGATE				
POLIC PRO- ECT LOC				PROD CTS - COMP/OP AGG				
OTHER:				COMPINED CINCLE LIMIT				
AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT (Ea accident)				
AN A TO ALL O NED SCHED LED				BODIL IN R (Per person)				
A TOS A TOS NON-O NED				BODIL IN R (Per accident) PROPERT DAMAGE				
HIRED A TOS A TOS				(Per accident)				
UMBRELLA LIAB COCC P								
				EACH OCC RRENCE				
OLANVIO-WADE				AGGREGATE				
DED RETENTION WORKERS COMPENSATION				PER OTH- STAT TE ER				
AND EMPLOYERS' LIABILITY AN PROPRIETOR/PARTNER/E EC TIVE				E.L. EACH ACCIDENT				
OFFICER/MEMBER E CL DED N/A (Mandatory in NH)				E.L. DISEASE - EA EMPLO EE				
If yes, describe under DESCRIPTION OF OPERATIONS below				E.L. DISEASE - POLIC LIMIT				
A Errors & Omissions PSN004022116	61	1/31/2025	1/31/2026	Each Occurrence	\$1,000,000			
	-	_,,	_, -, -, -, -, -, -, -, -, -, -, -, -, -,	General Aggregate	\$1,000,000			
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Rem	narks Schedule, may be atta	ched if more spa	ce is required)					
CERTIFICATE HOLDER	CANO	CANCELLATION						
FOR INFORMATIONAL PURPOSES ONLY XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	SHO THE ACC	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.						
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	AUTHOR	AUTHORIZED REPRESENTATIVE						
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	N Whi	N Whitsett/RACHEL						