

# 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 #25 (Magnolia Acres) 196 Little Gem Ln - Fuquay-Varina NC 27501 Tax parcel identification number or subdivision lot, block number of property: PIN# 0633-02-7529 County: Harnett						
System Information: Accepted Status  Wastewater System Type: PPBPS  Daily Design Flow: 480 gallons/day  Saprolite System:YesXNo						
Facility Type: X_Residential4_# Bedrooms8_ Maximum # of Occupants Business						
Requird_Attachments:xPlat_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: Wlex 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:						

# 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 #25 – 196 Little Gem Ln. – Fuquay-Varina, NC - 4-bedroom Single Family Residence (PIN# 0633-02-7529)

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 PPBPS 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





# 196 Little Gem Ln Lot #25 Magnolia Acres

# Caruso Builders Harnett County PIN: 0630-02-7529 480 gallon/day Septic Design

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

GRAPHIC SCALE

1" = 50'

50

100

System: Pressure Manifold

Lines: 1-4 (300') 0.3 LTAR

18" Max Trench Bottom

**PPBPS** 

Repair: Pressure Manifold

Lines: 5-8 (300') 0.30 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

tine #5 - 75' ine #7 - 75. ine #8 ine #4 250.29 N03°35'14"E S03°34'58"W 265.02 SEE INSET 40.0 -25.0

32,177 S.F. 0.74 AC

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

# Lot 40 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: 900 System Type: PPBPS-Horizontal

Number of Taps: 4 Length of Trenches: 300 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: 150 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss:  $\frac{4.16}{}$  ft(supply line length + 70' for fittings in pump tank)

Design Head:  $\underline{2}$  ft Elevation Head:  $\underline{16.00}$  ft

Dosing Volume: <u>245</u> gals,

Drawdown: 245 gals divided by 21.4 gals/in = 11.4 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

			1	AF CHAP	λ I						
Benchmark Pump tank elev.	<u>0</u>	is = 100.00 <u>18</u>	set at 95.00	Pump elev.	90.00		Design Head: Manifold elev.	2 1.00		# of Panels	Change in Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
1				75	1/2in SCH 40	7.11	120.00	225	0.5333	17	6.8
2				75	1/2in SCH 40	7.11	120.00	225	0.5333	17	6.8
3				75	1/2in SCH 40	7.11	120.00	225	0.5333	17	6.8
4				75	1/2in SCH 40	7.11	120.00	225	0.5333	17	6.8
			Total Feet = Feet Required =		gal/min = Velocity =	28.44 2.72		<u>LTAR =</u> (Itar + 5%)	<b>0.3000</b> 0.3150		
Total # of Panels (	(PPBPS)	68		Des. Flow	<u>480</u>			(Itar w/50% red)	0.6000		
% of Dose Vol.		70		Pump Run=	16.88			(Itar + 5%)	0.6300		
Dose Volume		245		Tank Gal/IN	<u>21.4</u>						
Dose Pump Time		8.61		Elev. Head	16.00						
Drawdown in Inch Comments:	es	11.4									

#### SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Carusso Homes ADDRESS: 196 Little Gem LN

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

APPLICATION DATE: DATE EVALUATED: 10-31-25 PROPERTY SIZE: ~0.79 Acres

LOCATION OF SITE: 196 Little Gem LN

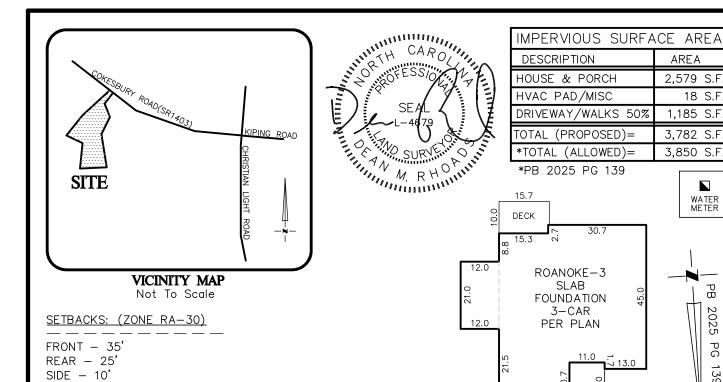
WATER SUPPLY: Public Water

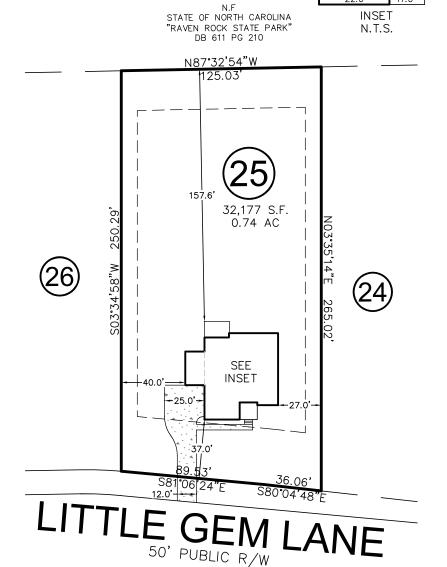
EVALUATION METHOD: Auger Boring TYPE OF WASTEWATER: Sewage

P R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)		RPHOLOGY 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
		0-26	SBK/C	FR,SS,SP,SEXP	NA	38"	S	N.O	P.S .3
1	Slope/15%	26-38	GR/SL	VFR,NS,NP,SEXP					
	Linear	0-20	SBK/C	FR,SS,SP,SEXP	NA	40"	S	N.O	P.S .3
2	Slope/15%	20-40	GR/SL	VFR,NS,NP,SEXP					
	Linear	0-22	SBK/C	FR,SS,SP,SEXP	NA	40"	S	N.O	P.S .3
3	Slope/15%	22-40	GR/SL	VFR,NS,NP,SEXP					
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





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

THIS DRAWING DOES NOT REFLECT AS-BUILT INFORMATION

18 S.F

WATER METER

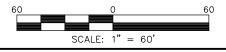
PB

2025

PG

INSET

PRELIMINARY PLAT NOT FOR RECORDATION, CONVEYANCES, OR SALES.



CORNER SIDE - 20'

# SERVICES, PLLC.

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

# HOUSE LOCATION PLOT PLAN

FOR #196 LITTLE GEM LANE

LOT 25, MAGNOLIA ACRES

Hector's Creek Township, Harnett County, North Carolina

CARUSO HOMES PROPERTY OF: \_

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 require an end certificate holder in lieu of such endorsement(s).	sement. A statement on this certificate does not	confer rights to the				
PRODUCER	CONTACT Angela Sensenig					
Wade Associates, LLC	PHONE (252)631-5269 FAX (252)649-2443					
250 Pollock St.	(A/C, No, Ext): (232)031-3205 (A/C, No): (232)043-2443  E-MAIL ADDRESS: asensenig@wadeict.com					
	INSURER(S) AFFORDING COVERAGE	NAIC #				
New Bern NC 28560	INSURER A: Lloyd's of London	A1122J				
INSURED	INSURER B:					
Alex Adams, DBA: Adams Soil Consulting	INSURER C:					
1676 Mitchell Rd.	INSURER D :					
	INSURER E :					
Angier NC 27501	INSURER F:					
COVERAGES CERTIFICATE NUMBER: 25-26	REVISION NUMB	ER:				
THIS IS TO CERTIF THAT THE POLICIES OF INS RANCE LISTED BELO HAVE BI INDICATED. NOT ITHSTANDING AN RE IREMENT, TERM OR CONDITION OF A CERTIFICATE MA BE ISS ED OR MA PERTAIN, THE INS RANCE AFFORDED B E CL SIONS AND CONDITIONS OF S CH POLICIES. LIMITS SHO N MA HAVE B	CONTRACT OR OTHER DOC MENT ITH RESPECT THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL TENDED FOR BEING SUBJECT OF THE POLICIES OF THE POLICIE	TO HICH THIS				
INSR LTR TYPE OF INSURANCE INSD WVD POLICY NUMBER	POLICY EFF POLICY EXP (MM/DD/YYYY) (MM/DD/YYYY)	LIMITS				
COMMERCIAL GENERAL LIABILITY	EACH OCC RRENCE					
CLAIMS-MADE OCC R	DAMAGE TO RENTED PREMISES (Ea occurre	nce)				
	MED E P (Any one per	son)				
	PERSONAL ADV IN	R				
GEN'L AGGREGATE LIMIT APPLIES PER:	GENERAL AGGREGATE	<u> </u>				
POLIC PRO- ECT LOC	PROD CTS - COMP/OF	PAGG				
OTHER:	COMBINED SINGLE LIN	AIT				
AUTOMOBILE LIABILITY	(Ea accident)					
AN A TO ALL O NED SCHED LED	BODIL IN R (Per p	· ·				
A TOS A TOS NON-O NED	BODIL IN R (Per a	ccident)				
HIRED A TOS A TOS	(Per accident)					
UMBRELLA LIAB OCC R	EACH OCC RRENCE					
EXCESS LIAB CLAIMS-MADE	AGGREGATE					
DED   RETENTION   WORKERS COMPENSATION		OTH-				
AND EMPLOYERS' LIABILITY  Y/N	PER STAT TE	OTH- ER				
AN PROPRIETOR/PARTNER/E EC TIVE OFFICER/MEMBER E CL DED N/A	E.L. EACH ACCIDENT					
(Mandatory in NH)  If yes, describe under	E.L. DISEASE - EA EMP					
DÉSCRIPTION OF OPERATIONS below	E.L. DISEASE - POLIC	•				
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,	y be attached if more space is required)					
CERTIFICATE HOLDER	CANCELLATION					
*FOR INFORMATIONAL PURPOSES ONLY* XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	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	AUTHORIZED REPRESENTATIVE					
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	N Whitsett/RACHEL N lee N					