



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 #67 (Olde Mill Village) 261 Mill Bend Drive- Fuquay-Varina NC 27501

Tax parcel identification number or subdivision lot, block number of property: PIN# 0644-55-1845

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 ☐ 3 # Bedrooms ☐ 6 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 4th day of August 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 4th day of August 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**

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August 4, 2025  
Project #2179

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

RE: Lot 67- Molde Mill Village – Fuquay-Varina, NC - 3-bedroom Single Family Residence (PIN# 0644-55-1845)

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 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



265 Mill Bend Drive  
4-Bedroom Septic Design  
Lot 67 Olde Mill Village  
Carruso Homes  
Harnett County  
7-31-25

\*3-Bedroom Initial System with Panel Block Repair.

Profile Description #1  
See Soil/Site Evaluation  
Data Form

1

Profile Description #2  
See Soil/Site Evaluation  
Data Form

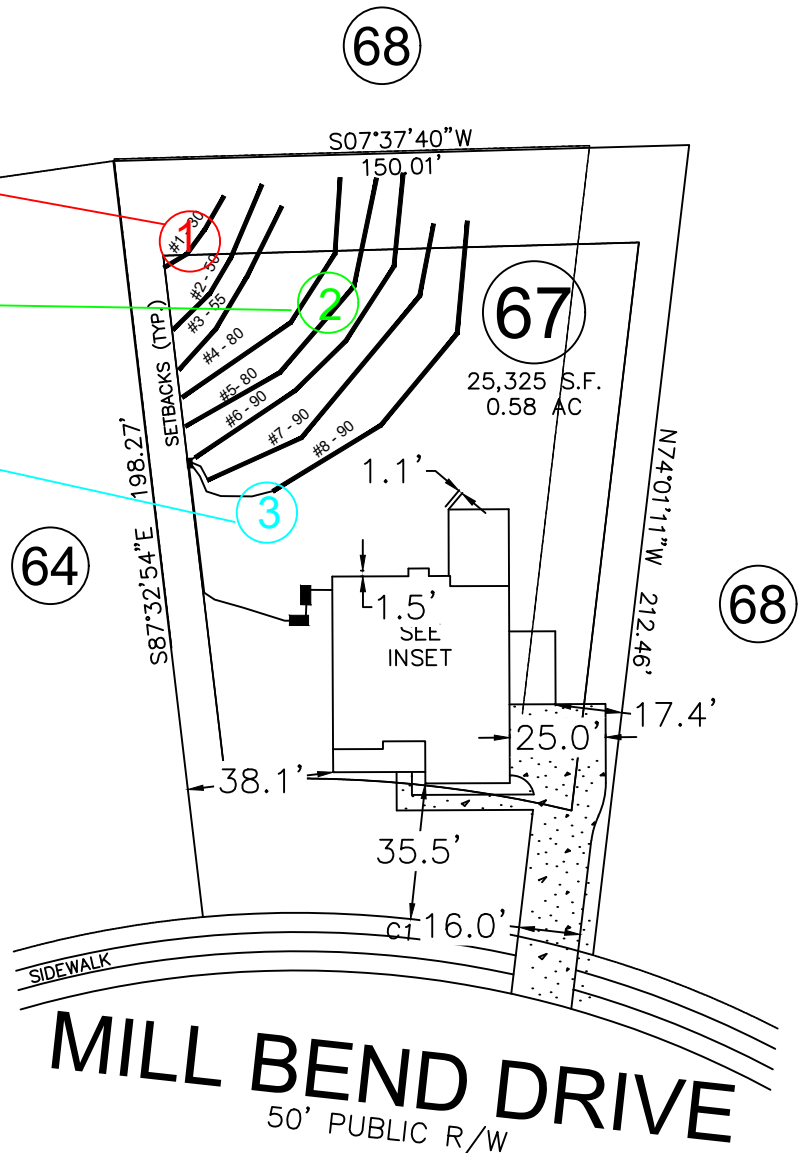
2

Profile Description #3  
See Soil/Site Evaluation  
Data Form

3

System: Pressure Manifold  
Lines: 6-8 (270')  
0.3 LTAR  
15" Max Trench Bottom  
PPBPS (T&J Panel Block System)  
Repair: Pressure Manifold  
Lines: 2-5 (260')  
0.4 LTAR  
21" Max Trench Bottom  
PPBPS (T&J Panel Block System)

\*\*1000 Gallon Septic and Pump Tank  
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.



\*Septic Installer to Contact Adams Soil Consulting at least 7 days in advance of installation.

Adams  
Soil Consulting  
919-414-6761  
Job #2179

GRAPHIC SCALE  
1" = 50'



**261 Mill Bend Drive  
PRESSURE MANIFOLD DESIGN -Initial**

Caruso Homes

# of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.3000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 810 System Type: PPBPS-Horizontal

Number of Taps: 3 Length of Trenches: 270 ft(See Tap Chart for Details)

Depth of Trenches: 15 in Manifold Length: 36 in

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

Supply Line: length: 120 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 2.11 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft Elevation Head: 6 ft

Total Head: 10.11 ft Pump to Deliver: 21.33 gals/min at 10.11 ft head

Dosing Volume: 227 gals,

Drawdown: 227 gals divided by 21.4 gals/in = 10.6 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	0	is = 100.00	set at					Design Head:	2			Change in
Pump tank elev.	18		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)
5	Blue			90	1/2in SCH 40	7.11	120.00	270	0.4444		21	4.2
6	Purple			90	1/2in SCH 40	7.11	120.00	270	0.4444		21	4.2
7	Orange			90	1/2in SCH 40	7.11	120.00	270	0.4444		21	4.2

Total # of Panels (PPBPS)	63	Total Feet =	270	gal/min =	21.33	LTAR =	0.3000
% of Dose Vol.	<u>70</u>	Feet Required =	200	Velocity =	2.04	(ltar + 5%)	0.3150
Dose Volume	227	Des. Flow	<u>360</u>			(ltar w/50% red)	0.6000
Dose Pump Time	10.63	Pump Run=	16.88			(ltar + 5%)	0.6300
Drawdown in Inches	10.6	Tank Gal/IN	<u>21.4</u>				
Comments:		Elev. Head	6				

