



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:

Name: JSJ Builders, Inc.

Mailing address: 1135 Robeson St. City: Fayetteville State: NC Zip: 28305

Phone: 910-438-0796 Email: Kevinshortridge@gmail.com

Authorized Onsite Wastewater Evaluator Information:

Name: Mike Eaker Certification #: 10013E

Mailing address: PO Box 9321 City: Fayetteville State: NC Zip: 28311

Phone: 910-822-4540 Email: Mike@southeasternsoil.com



Site Location Information:

Site address: 69 Hookbill Lane, Lillington, NC 27546

Tax parcel identification number or subdivision lot, block number of property: 0527-40-6844.000

Ducks Landing, Lot 9 County: Harnett

System Information:

Wastewater System Type: Pump to Accepted (25% reduction)

Daily Design Flow: 360 gpd

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 Site Plan
☒ Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 17 day of June, 2025 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 17 day of June, 2030

Signature of Authorized Onsite Wastewater Evaluator: Mike Eaker

Signature of Owner or Legal Representative: Kevin Shortridge

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: _____

Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321
Fayetteville, NC 28311
Phone/Fax (910) 822-4540
Email mike@southeasternsoil.com

June 17, 2025

Mr. Kevin Shortridge
JSJ Builders, Inc.
1135 Robeson St.
Fayetteville, NC 28305

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-336.2) AOWE, Ducks Landing, Lot 9, PIN 0527-40-6844.000, 69 Hookbill Lane, Lillington, Harnett County, North Carolina

Dear Mr. Shortridge,

A soil/site evaluation has been conducted on the aforementioned property at your request. The purpose of the investigation was to determine if soils were suitable or provisionally suitable for a subsurface waste disposal system (conventional, accepted and innovative) to serve a proposed single-family residence (3-bedroom home). All ratings and determinations were made in accordance with "Onsite Wastewater Rules, 15A NCAC 18E". **This LSS evaluation is being submitted to meet the requirements of GS 130A-336.2 (AOWE).**

The soil evaluation was completed on June 12, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (0 - 1% slope). Soil borings conducted in most of this area consisted of 20 or more inches of loamy sand underlain by sandy loam, sandy clay loam and/or sandy clay to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 28 inches below the soil surface (initial system) and 28 inches (repair system). All other soil characteristics were suitable to at least 48 inches.

Based on soil borings and site conditions, the site would be designated suitable for a pump to a shallow accepted subsurface waste disposal drainfield (0.30 gal/day/ft² LTAR; initial system). There is enough suitable soil area to allow for a pump to an accepted subsurface septic system repair (0.30 gal/day/ft²). A map showing the approximate location of the site and proposed septic layout accompanies this report. **[Note: No grading, rutting or other soil disturbance can occur in or near the proposed septic area. Any grading can alter the findings of this report and render the site unusable. As such, we recommend the builder protect the proposed septic areas with rope, flagging, fencing, etc.]**

Design Summary

- Pump to Accepted product (300', see septic layout)
- 360 gal/day flow rate (3BR)
- 16" maximum trench depth (ADD 2" soil cover over system after install)
- 0.30 gpd/ft² LTAR (initial and repair)
- 1000-gallon septic and pump tank (certified watertight)
- Pump to produce 35.55 gal/min @ 14.87 feet TDH
- Pump dose 137 gallons (6.8-inch drawdown)
- No grading, rutting or filling in septic areas
- No vertical cuts (greater than 2") within 15' of septic lines/areas
- Keep tanks and drainlines 10' from property lines
- Keep supply line 5 or more feet from property lines
- **Install in dry soil conditions**
- Maintain natural contours when clearing the lots
- Direct gutter water away from septic system
- **AOWE must preapprove Licensed installer**
- **Preconstruction conference required 2 weeks prior to installation of septic**
- **Contractor to provide 2 week's notice prior to installation**

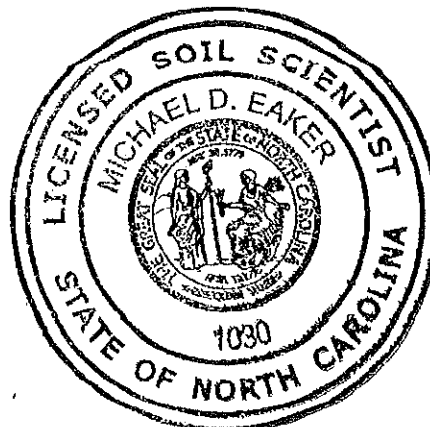
During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend all lot clearing activity be delayed until the local health department issues a permit.

To the extent possible, we have identified the soil types that will impact the flow of wastewater on this site and have provided a professional opinion as to the best septic system layout. This report does not guarantee that the proposed septic system will properly function for any specific length of time.

Sincerely,



Mike Eaker
NC Licensed Soil Scientist # 1030
NC Authorized Wastewater Evaluator 10013E



SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: Ducks Landing

LOT 9

INITIAL SYSTEM: Accepted 25% Reduction

REPAIR: Accepted 25% Reduction

DISTRIBUTION: Pressure Manifold

DISTRIBUTION Pressure Manifold

BENCHMARK: 100.0

LOCATION Electric Box Pad FC 9/10

NO. BEDROOMS: 3

LTAR 0.30 gpd/ft2

SEPTIC TANK SIZE 1000 Gallons

PUMP TANK SIZE 1000 Gallons

	<u>LINE</u>	<u>FLAG COLOR</u>	<u>ELEVATION</u>	<u>LENGTH</u>
Initial	1	Y	102.80	60'
	2	O	102.80	60'
	3	Y	102.70	60'
	4	O	102.60	60'
	5	Y	102.60	60'
				TOTAL 300'
Repair	6	O	102.50	60'
	7	Y	102.40	60'
	8	O	102.40	60'
	9	Y	102.30	60'
	10	O	102.30	60'
				TOTAL 300'

BY Mike Eaker

DATE 6/12/25

TYPICAL PROFILE

THERE SHALL BE NO GRADING,

CUTTING, LOGGING OR OTHER SOIL

DISTURBANCE IN SEPTIC AREA

HEALTH DEPARTMENT USE ONLY.

DESIGNS DO NOT GURANTEE FUNCTIONALITY

Initial
0-23 LS/SL VFr/Fr/Gr
23-48 SCL/SC FI/SBk
CR2 28"

Repair
0-20 LS/SL VFr/Fr/Gr
20-48 SCL/SC FI/SBk
CR2 28"



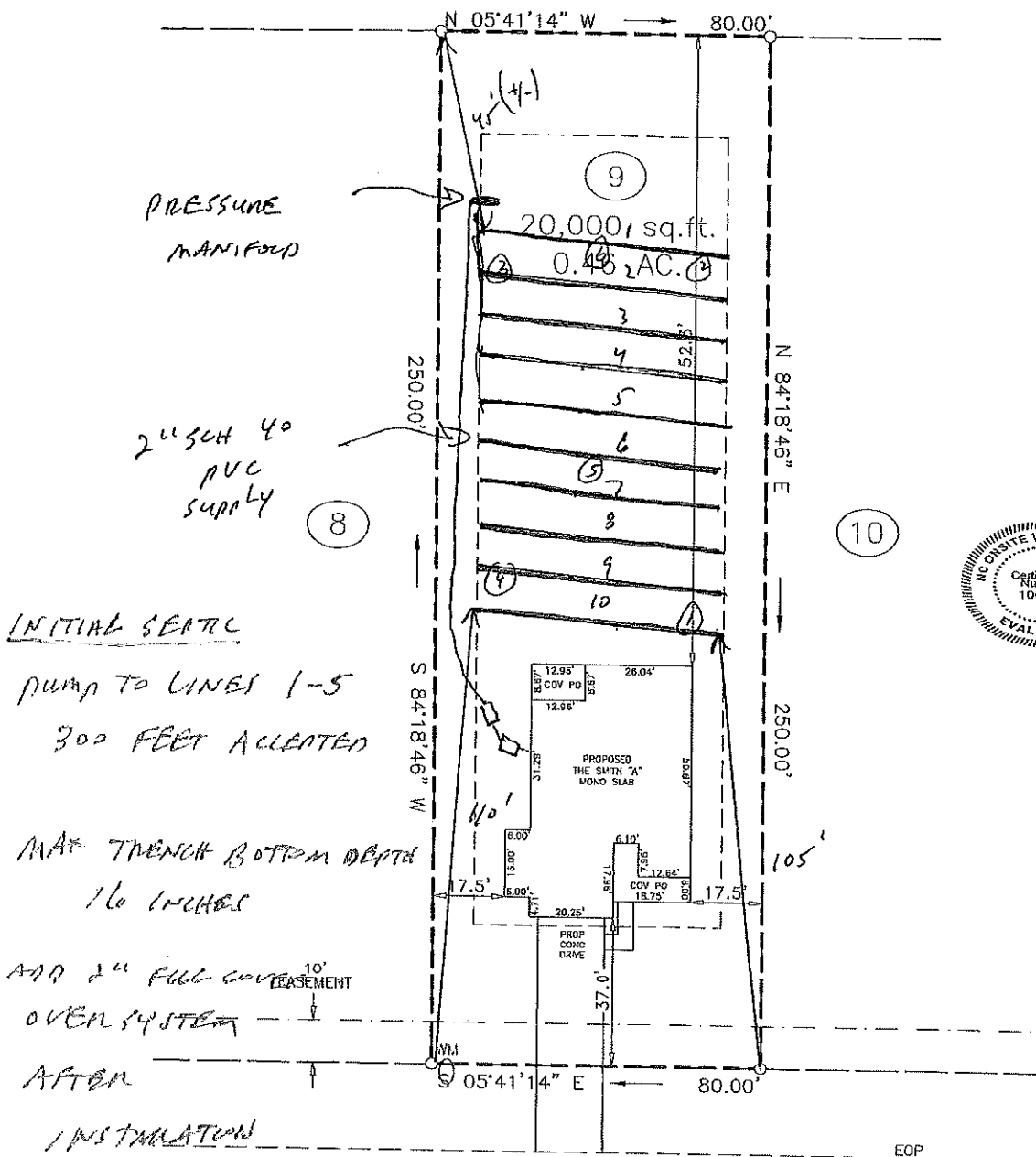
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CO - SEWER CLEAN-OUT
SW - SIDEWALK
PO - PORCH
N/F - NOW OR FORMERLY
CVRD - COVERED
CB - CATCH BASIN
EQP - EDGE OF PAVEMENT
BOG - BACK OF CURB

ADOPTED FROM P.B. 2025, PG. 268

6

ND SURVEY
NICHOLAS M. FRENCH


$$1'' = 40'$$

RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Ducks Landing, Lot 9

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: 900 System Type: Accepted

Number of Taps: 5 Length of Trenches: 300 ft(See Tap Chart for Details)

Depth of Trenches: 16 in Manifold Length: 48 in

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

Supply Line: length: 125 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 5.57 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft Elevation Head: 7.30 ft

Total Head: 14.87 ft Pump to Deliver: 35.55 gals/min at 14.87 ft head

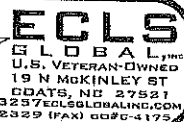
Dosing Volume: 137 gals,

Drawdown: 137 gals divided by 20 gals/in = 6.8 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

[illegible]



SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: JSJ Builders, Inc.

DATE EVALUATED: 6/12/25

ADDRESS: 1135 Robeson St., Fayetteville, NC 28305

PROPOSED FACILITY: SFD

PROPOSED DESIGN FLOW (.0400): 360 GPD

PROPERTY SIZE: 0.46 ac

LOCATION OF SITE: 69 Hookbill Lane, Lillington, NC 27546

PROPERTY RECORDED: _____

WATER SUPPLY: ☒ Public ☐ Single Family Well ☐ Shared Well ☐ Spring ☐ Other _____

WATER SUPPLY SETBACK: N/A: No Set

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	LS 0-1%	0-2	LS/GR	VFR/NEXP	31"	31"	NA	NA	Suitable 0.30	
		2-26	LS/GR	VFR/NEXP	10YR 6/4					
		26-31	SCL/SC/WF SBK	FI/SEXP	10YR 5/8					
		31-48	SCL/MASS	FI/SEXP	10YR 5/8 5YR 5/4 10YR 7/1 molt					
2	LS 0-1%	0-4	LS/GR	VFR/NEXP	29"	36"	NA	NA	Suitable 0.30	
		4-29	LS/GR	VFR/NEXP	10YR 6/4					
		29-36	SCL/SC/WF SBK	FI/SEXP	10YR 5/8 10YR 7/1 molt					
		36-48	SCL/SC/MASS	FI/SEXP	10YR 5/8 5YR 5/4 10YR 7/1 molt					
3	LS 0-1%	0-5	LS/GR	VFR/NEXP	28"	31"	NA	NA	Suitable 0.30	
		5-28	LS/GR	VFR/NEXP	10YR 6/4					
		28-31	SCL/SC/MM SBK	FI/SEXP	10YR 5/8 10YR 7/1 molt					
		31-48	SCL/SC/MASS	FI/SEXP	10YR 5/8 5YR 5/6 10YR 7/1 molt					
4	LS 0-1%	0-6	LS/GR	VFR/NEXP	28"	31"	NA	NA	Suitable 0.30	
		6-28	LS/GR	VFR/NEXP	10YR 7/3					
		28-31	SCL/SC/MM SBK	FI/SEXP	10YR 5/8 10YR 7/1 molt					
		31-48	SCL/SC/MASS	FI/SEXP	10YR 5/8 7.5YR 5/8 10YR 7/1 molt					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICATION (.0509): <u>Suitable</u> EVALUATED BY: <u>M. Eaker</u> OTHER(S) PRESENT: <u>D. Eaker</u>
Available Space (.0508)	YES	YES	
System Type(s)	Pump to Accepted	Pump to Accepted	
Site LTAR	0.30 gpd/ft2	0.30 gpd/ft2	
Maximum Trench Depth	16"	16"	

Comments:

Add 2" COVER AFTER INSTALLATION

(Continuation Sheet-Complete all field in full)

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DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: Ducks Landing Lot 9
DATE OF EVALUATION: 6/12/25
COUNTY: Hamelt

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COMMENTS:



Travelers 1st Choice+®

**DESIGN PROFESSIONALS LIABILITY COVERAGE
DECLARATIONS**

POLICY NO. 108040737

Travelers Casualty and Surety Company of America
Hartford, Connecticut
(A Stock Insurance Company, herein called the Company)

Important note: This is a claims-made policy. To be covered, a claim must be first made against an insured during the policy period or any applicable extended reporting period.

This policy is composed of the Declarations, the Professional Liability Coverage, the Professional Liability Terms and Conditions, and any endorsements attached thereto.

ITEM 1	NAMED INSURED: SOUTHEASTERN SOIL AND ENVIRONMENTAL ASSOCIATES DBA: Principal Address: PO BOX 9321 FAYETTEVILLE, NC 28311-9084
ITEM 2	POLICY PERIOD: Inception Date: May 1, 2025 Expiration Date: May 1, 2026 12:01 A.M. standard time both dates at the Principal Address stated in ITEM 1.
ITEM 3	ALL NOTICES PURSUANT TO THE POLICY MUST BE SENT TO THE COMPANY BY EMAIL, FACSIMILE, OR MAIL AS SET FORTH BELOW: Email: BS1claims@travelers.com Fax: 1-888-460-6622 Mail: Travelers Bond & Specialty Insurance Claim P.O. Box 2989 Hartford, CT 06104-2989 Overnight Mail: Travelers Bond & Specialty Insurance Claim One Tower Square, MN06 Hartford, CT 06183 For questions related to claim reporting or handling, please call 1-800-842-8496.

