



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: Caviness and Cates

Mailing address: 639 Executive Place Ste. 400 City: Fayetteville State: NC Zip: 28305

Phone: 910-709-9801 Email: pam@cavinessandcates.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: 369 Hookbill Lane, Lillington, NC 27546

Tax parcel identification number or subdivision lot, block number of property: Ducks Landing Lot 26

0527-52-1283.000 County: Harnett

System Information:

Wastewater System Type: Accepted (25% Reduction)

Daily Design Flow: 480 gpd

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 Site Plan

☒ Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 8 day of May, 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 8 day of May, 2030.

Signature of Authorized Onsite Wastewater Evaluator: *Mike Eaker*

Signature of Owner or Legal Representative: *Pamela M Geddie*

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](mailto:mike@southeasternsoil.com)

May 8, 2025

Ms. Pamela Geddie  
Caviness & Cates  
639 Executive Place, Suite 400  
Fayetteville, NC 28305

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-336.2) AOWE, Ducks Landing, Lot 26, PIN 0527-52-1283.000, 369 Hookbill Lane, Lillington, Harnett County, North Carolina

Dear Ms. Geddie,

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 (4-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 February 27, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (2-4% slope). Soil borings conducted in most of this area consisted of 6 or more inches of loamy sand underlain by sandy loam, sandy clay loam and/or clay loam to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 37 inches below the soil surface (initial system) and 34 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 shallow accepted subsurface waste disposal drainfield (0.40 gal/day/ft<sup>2</sup> LTAR; initial system). There is enough suitable soil area to allow for a shallow accepted subsurface septic system repair (0.40 gal/day/ft<sup>2</sup>). 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

- Accepted product (300', see septic layout)
- 480 gal/day flow rate (4BR)
- 22" maximum trench depth (upslope side)
- 0.40 gpd/ft<sup>2</sup> LTAR (initial and repair)
- 1000-gallon septic tank (**certified watertight**)
- 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**

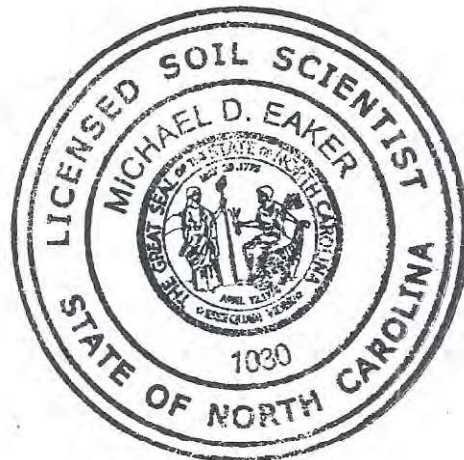
During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend 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** 26

**INITIAL SYSTEM:** Accepted 25% Reduction

**REPAIR:** Accepted 25% Reduction

**DISTRIBUTION:** Gravity Serial

**DISTRIBUTION** Gravity Serial

**BENCHMARK:** 100.0

**LOCATION** FC 24/25

**NO. BEDROOMS:** 4

**LTAR** 0.40 gpd/ft2

**SEPTIC TANK SIZE** 1000 Gallons

**PUMP TANK SIZE** N/A

	<u>LINE</u>	<u>FLAG COLOR</u>	<u>ELEVATION</u>	<u>LENGTH</u>
Initial	1	Y	101.90	100
	2	W	101.60	100
	3	R	101.40	100
				300 TOTAL
Repair	4	Y	101.40	100
	5	R	101.40	100
	6	O	101.20	100
				300 TOTAL

**BY** Mike Eaker

**DATE** 2/27/25

**TYPICAL PROFILE**

**THERE SHALL BE NO GRADING,**

**CUTTING, LOGGING OR OTHER SOIL**

**DISTURBANCE IN SEPTIC AREA**

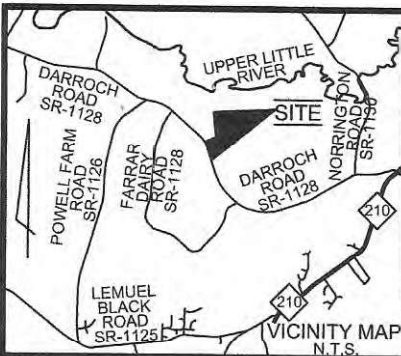
HEALTH DEPARTMENT USE ONLY.

DESIGNS DO NOT GURANTEE FUNCTIONALITY

Initial	0-20	LS/SL	VFr/Fr/Gr
	20-48	SL/SCL	Fi/SBk
	CR2	37"	

Repair	0-20	LS/SL	VFr/Fr/Gr
	20-48	SL/SCL	Fi/SBk
	CR2	34"	



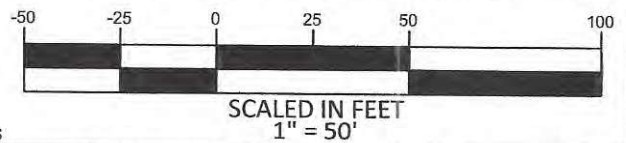


#### Notes:

- This plat is for location purposes only. Builder should verify foundation information with plans before construction begins.
- There is no USCE or NCGS monument within 2000' of this site.
- The subject property is not within a special flood hazard area as determined by the Department of Housing and Urban Development.
- The easement information shown hereon was obtained from the recorded plat. No updated title search was performed by the surveyor.
- All distances are measured in feet.
- This map reflects the information contained on the Record Plat and does not represent compliance with the Restrictive Covenants.

#### LEGEND

- EXISTING IRON PIPE
- CURVE PT / PC
- SURVEYED LINE
- EASEMENT LINE
- ADJOINER
- SURVEYED BY OTHERS



MAP NOT DRAWN IN ACCORDANCE WITH GS 47-30

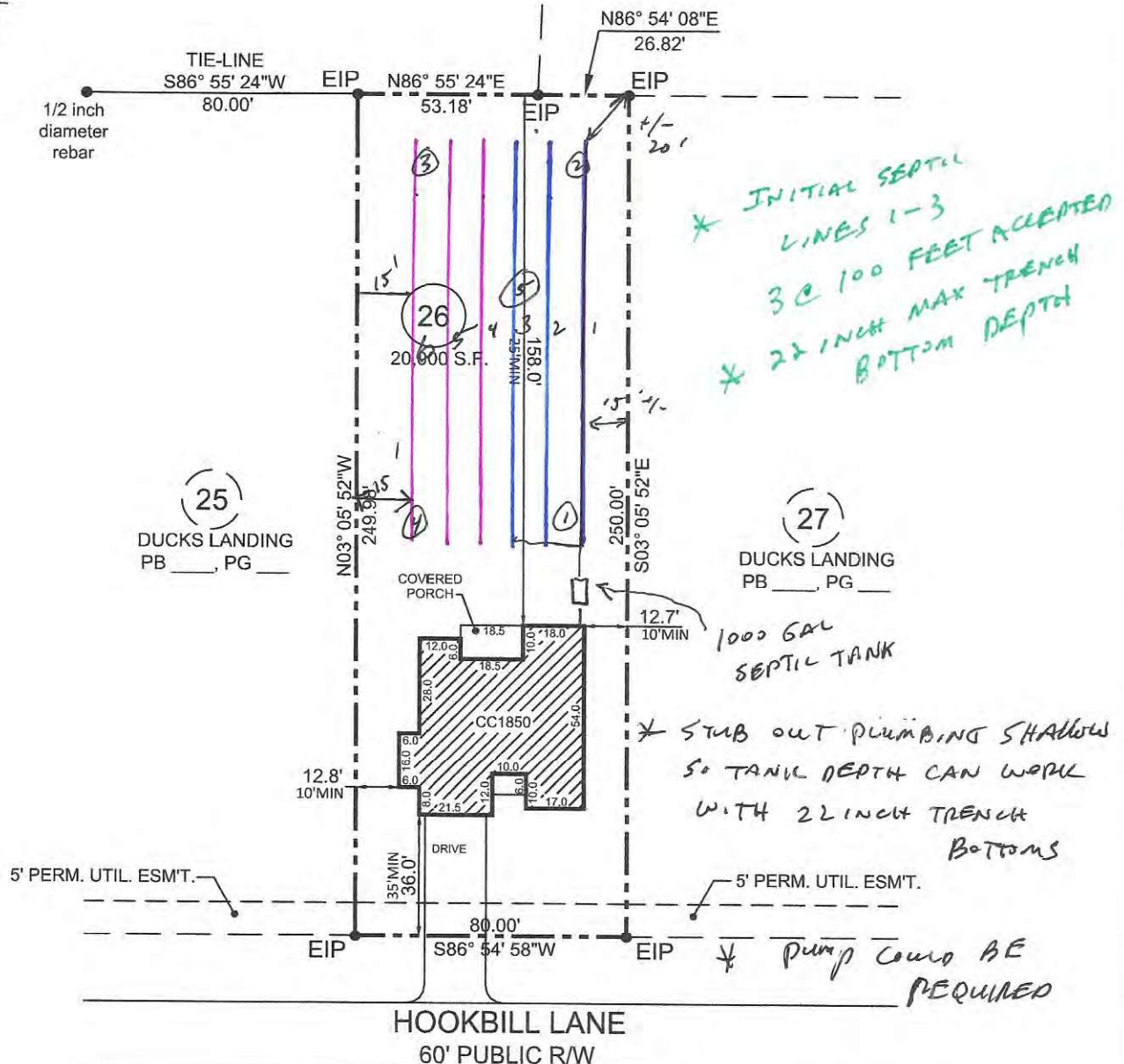
\*\*NOT FOR CONVEYANCES OR SALES\*\*

*SOUTHEASTERN SOIL*



JOHN E THORNTON  
DB 1424, PG 029  
PIN# 0527-43-6113.000

JOHN E THORNTON  
DB 0894, PG 738  
PIN# 0527-62-2927.000

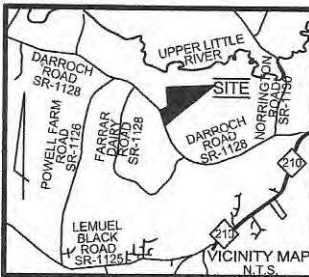


ZONED RA-20R :  
FRONT  
SIDE (EXT)

35' MIN  
20' MIN

PRELIMINARY  
LOT NOT  
RECORDED

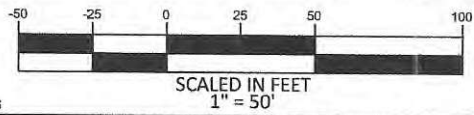




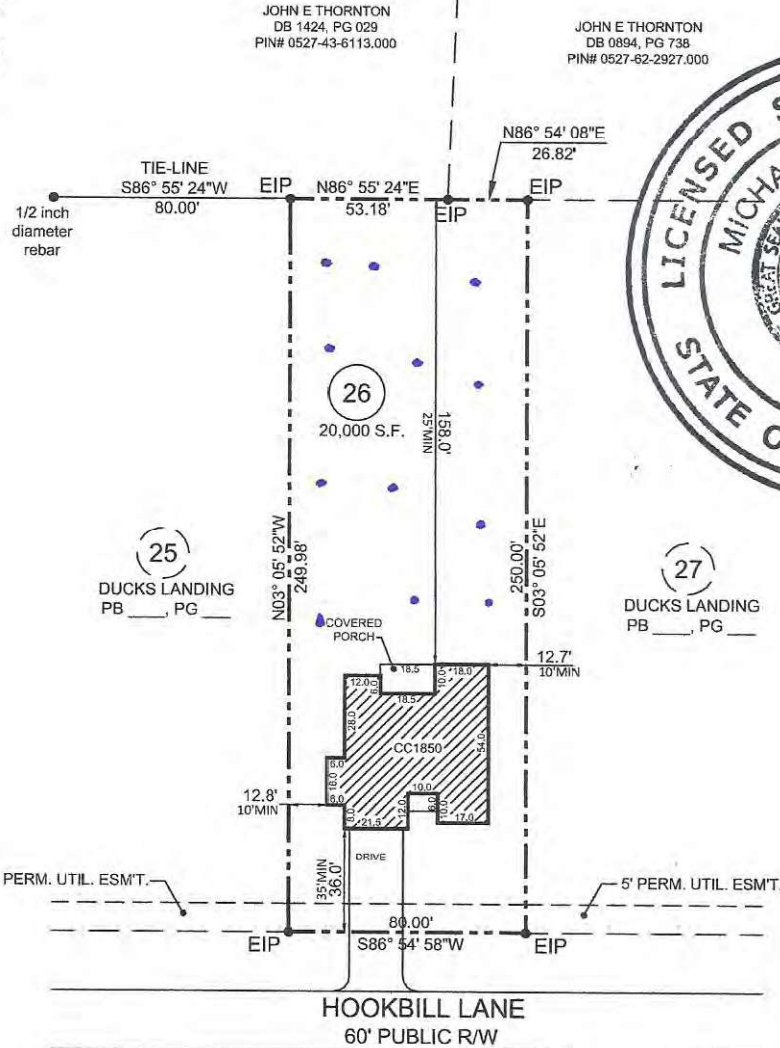
- Notes:
- This plat is for location purposes only. Builder should verify foundation information with plans before construction begins.
  - There is no USCE or NCGS monument within 2000' of this site.
  - The subject property is not within a special flood hazard area as determined by the Department of Housing and Urban Development.
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#### LEGEND

- EXISTING IRON PIPE
- CURVE PT / PC
- SURVEYED LINE
- EASEMENT LINE
- ADJOINER
- SURVEYED BY OTHERS



MAP NOT DRAWN IN ACCORDANCE WITH GS 47-30  
\*\*NOT FOR CONVEYANCES OR SALES\*\*



ZONED RA-20R :  
FRONT 35' MIN  
SIDE (EXT) 20' MIN  
SIDE (INT) 10' MIN  
REAR 25' MIN

= Suitable Soil

PRELIMINARY  
LOT NOT  
RECORDED  
ON PLAT

- HOUSE TRY FOR -  
**CAVINNESS & CATES BUILDING & DEVELOPMENT, CO.**  
- SUBDIVISION -  
**DUCKS LANDING**

ANDERSON CREEK TOWNSHIP  
HARNETT COUNTY  
NORTH CAROLINA

JANUARY 29, 2025  
SCALE 1" = 50'  
FIELD BOOK:

REFERENCE  
PB, PG  
HARNETT COUNTY NORTH CAROLINA REGISTRY

ENGINEERS  
PLANNERS  
SURVEYORS  
MOORMAN, KIZER & REITZEL, INC.



115 broadfoot ave.  
p.o. box 53774  
fayetteville, n.c. 28305  
phone 910-484-5191  
fax 910-484-0388  
LICENSE # F-0106

PROF. SURVEYOR NO.

PRELIMINARY  
LOT NOT  
RECORDED  
ON PLAT

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

OWNER: Caviness & Cates

ADDRESS: 639 Executive Place, Suite 400, Fayetteville, NC 28305

PROPOSED FACILITY: SFD

PROPOSED DESIGN FLOW (.1949): 480 GPD (4BR)

LOCATION OF SITE: Hookbill Lane, Lillington, NC (Lot 26) Ducks Landing

APPLICATION DATE

DATE EVALUATED: 02/27/25

PROPERTY SIZE: 0.459 Ac

PROPERTY RECORDED

WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other \_\_\_\_\_

EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

P R O F I L E #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPR O CLASS	.1944 RESTR HORIZ	
1	LS 1-2%	0-6	LS/Gr	VFr/Nexp	37"	NA	NA	NA	Suitable 0.40
		6-30	LS/Gr	VFr/NExp	10YR 7/3				
		30-37	SL/wf sbk	Fr/SExp	10YR 5/8				
		37-48	SCL/wf sbk	Fi, SExp	10YR 6/8				
					2.5YR 4/8				
2	LS 1-2%	0-7	LS/Gr	VFr/Nexp	44"	NA	NA	NA	Suitable 0.40
		7-29	LS/Gr	VFr/Nexp	10YR 7/3				
		29-44	SL/wf sbk	Fr/SExp	10YR 6/8				
		44-48	SCL/wf sbk	Fi/SExp	10YR 6/8				
					10YR 7/1 mot				
3	LS 1-2%	0-8	LS/Gr	VFr/Nexp	>48"	NA	NA	NA	Suitable 0.40
		8-24	LS/Gr	VFr/NExp	10YR 7/3				
		24-44	SL/SCL/mm sbk	Fi/SExp	10YR 6/8				
		44-48	SCL/wfsbk	Fi, SExp	10YR 6/8				
					10YR 7/1 mot				
4	LS 1-2%	0-5	LS/Gr	Fr/Nexp	34"	NA	NA	NA	Suitable 0.40
		5-20	LS/Gr	VFr/Nexp	10YR 6/4				
		20-34	SCL/mm sbk	Fi/SExp	10YR 6/8				
		34-44	SCL/wf sbk	Fi/SExp	10YR 6/8				
		44-48	SCL/wf sbk	Fi/SExp	10YR 7/1 mot				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946): _____ SITE CLASSIFICATION (.1948): Suitable  EVALUATED BY: M. Eaker OTHER(S) PRESENT: D. Eaker
Available Space (.1945)	Yes	Yes	
System Type(s)	Accepted	Accepted	
Site LTAR	0.40	0.40	

COMMENTS: \_\_\_\_\_



**SOIL/SITE EVALUATION**  
(Continuation Sheet-Complete all field in full)

Sheet 2 of 2

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

PROPERTY ID #: Ducks Landing Lot 26  
DATE OF EVALUATION: 02/27/25  
COUNTY: Harnett

P R O F I L E  #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
5	LS 1-2%	0-6	LS/Gr	VFr/NExp	37"	NA	NA	NA	Suitable 0.40
		6-26	SL/wf sbk	Fr/SExp	10YR 5/6				
		26-37	SCL/mm sbk	Fi/SExp	10YR 5/8				
		37-48	SCL/wf sbk	Fi/SExp	10YR 6/8				
		37-48	SL/mass	Fr/SExp	2.5YR 4/8 10YR 7/1				
6									

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





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**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.

<b>ITEM 1</b>	<b>NAMED INSURED:</b> SOUTHEASTERN SOIL AND ENVIRONMENTAL ASSOCIATES  DBA:  Principal Address: PO BOX 9321 FAYETTEVILLE, NC 28311-9084
<b>ITEM 2</b>	<b>POLICY PERIOD:</b> 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.
<b>ITEM 3</b>	ALL NOTICES PURSUANT TO THE POLICY MUST BE SENT TO THE COMPANY BY EMAIL, FACSIMILE, OR MAIL AS SET FORTH BELOW:  Email: BSIclaims@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.

