

# 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
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WHITE WAS TO WELL
Authorized Onsite Wastewater Evaluator Information:
Name: Mike Eaker Certification #: 10013E Certification #: 10013E  Mailing address: PO Box 9321 City: Fayetteville State: NC Zin: 28311
Authorized Onsite Wastewater Evaluator Information:  Name: Mike Eaker  Mailing address: PO Box 9321  Phone: 910-822-4540  Email: Kevinshortridge@gmail.com  Certification #: 10013E  City: Fayetteville State: NC Zip: 28311  Mike@southeasternsoil.com
THORE. 010 022-4040 ESHALL WINGESOURIDASIGNSOILCOIN
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:    V   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:
Signature of Owner or Legal Representative: Weren Manufu
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. 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

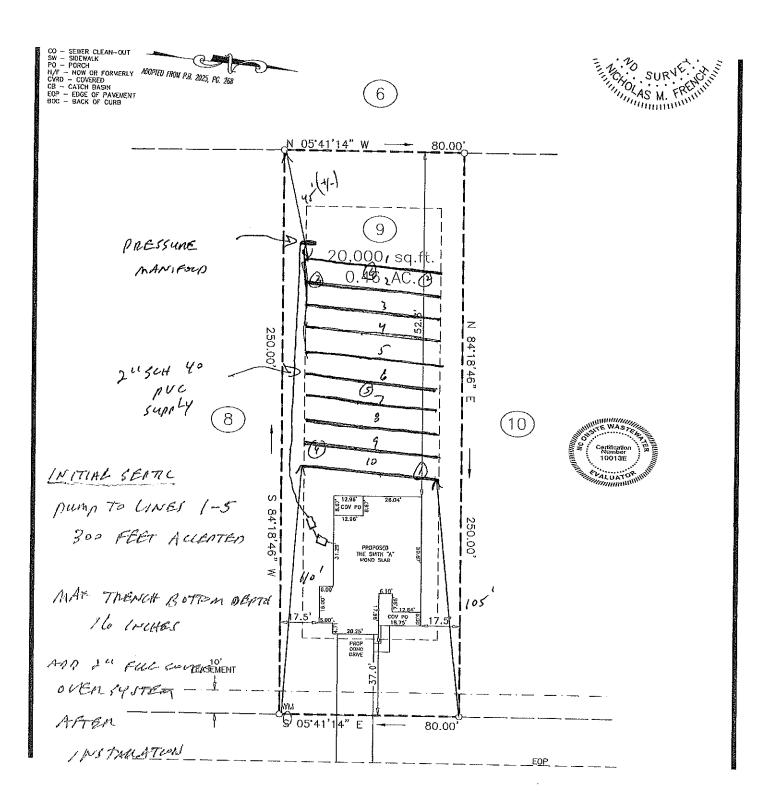
NC Licensed Soil Scientist # 1030

NC Authorized Wastewater Evaluator 10013E

# SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

# PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

		VISION: Duc		_	LOT 9
	INITIA	L SYSTEM: Ac	cepted 25% Reduction		REPAIR: Accepted 25% Reduction
	DISTRI	BUTION: Pres	ssure Manifold		<b>DISTRIBUTION</b> Pressure Manifold
	BENCH	IMARK:	100.0	<del></del>	LOCATION Electric Box Pad FC 9/10
	NO. BE	DROOMS: 3			LTAR 0.30 gpd/ft2
	SEPTIC	TANK SIZE 1	000 Gallons	_	PUMP TANK SIZE 1000 Gallons
	LINE	FLAG	COLOR	ELEVATION	LENGTH
	1	Υ		102.80	60'
T 217 . J	2,	0		102.80	60'
Initial	3	Υ		102,70	60'
	4	0		102.60	60'
	5	Υ		102.60	60'
					TOTAL 300'
Б.	6	0		102.50	60'
Repair	7	Υ		102.40	60,
	8	0		102,40	60'
	9	Υ		102.30	60'
	10	0		102.30	60,
	· · · · · · · · · · · · · · · · · · ·				TOTAL 300'
	N.4:	L- (T-1			
	BA MI	ke Eaker			DATE 6/12/25
	TYPICA	L PROFILE			THERE SHALL BE NO GRADING,
	0-23	LS/SL	VFr/Fr/Gr		CUTTING, LOGGING OR OTHER SOIL
Initial	23-48	SCL/SC	Fi/SBk		DISTURBANCE IN SEPTIC AREA
	CR2	28"			HEALTH DEPARTMENT USE ONLY,
					DESIGNS DO NOT GURANTEE FUNCTIONALITY
	0-20	LS/SL	VFr/Fr/Gr		
Repair	20-48	SCL/SC	Fi/SBk		Ceptification Rumber 10013E
	CR2	28"			10013E



1"=40"

## RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit#

Ducks Landing, Lot 9

# of BDR:

3 Daily Flow:

gal/day

L.T.A.R.: 0.3000 gal/day/sq.ft

Septic Tank:

1000 gals

Pump Tank:

5.57

360

1000 gals Sq. Foot:

900

System Type: Accepted

Number of Taps:

<u>5</u>

Length of Trenches:

300

ft(See Tap Chart for Details)

ft(supply line length + 70' for fittings in pump tank)

Depth of Trenches:

ĬΠ

Tap Configuration: 6 in spacing

Manifold Diameter:

16 4in sch 80pvc

2

Manifold Length:

48

in

side(s) of manifold

Supply Line: length:

125 fŧ

Diameter:

1 in sch 40pvc

Friction Loss + Fitting Loss:

ft

gals,

Elevation Head;

7.30

Design Head: Total Head:

14.87 ft

gals/min at

**Dosing Volume:** 

137

Pump to Deliver:

35.55

14.87

ft head

Drawdown:

<u>137</u>

gals divided by

<u>20</u>

gals/in =

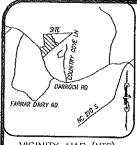
6.8

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** 

Benchmark Pump tank elev.	7.8	ís = 100.00 6,3	Elec Box Pad 101,50	Proper alass	60 HD		Design Head:	2			
		5.0	06,101	Pump elev.	96.50		Manifold elev.	103,80			
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels (PPBPS)	Spacing of Panels (in)
1	Y	5.00	102.80	60	1/2in SCH 40	7.11	72.00	180	0.4000	(C) Late (C)	raneis (in)
2	0	5,00	102.80	60	1/2in SCH 40	7.11	72.00	180	0.4000		
3	Υ	5.10	102.70	60	1/2in SCH 40	7.11	72.00	180	0.4000		
4	0.	5.20	102.60	60	1/2in SCH 40	7.11	72.00	180	0.4000		
5	Υ	5.20	102.60	60	1/2in SCH 40	7.11	72.00	180	0.4000		
			107.80			0	0.00	0	#DIV/0I		
			107.80			0	0.00	o	#DIV/01		
			107.80			0	0.00	0	#DIV/01		
			107.80			0	0.00	0	#DIV/0!		
			107,80			0	0.00	0	#DIV/0!		
			Total Feet =	300	gal/min =	35.55	*****	LTAR =	0.3000		
			Feet Required =	300	Velocity =	3.40		(Itar + 5%)	0,3150		
Total # of Panels (P	PBPS)			Des. Flow	360			(Itar w/25% red)	0.4000		
% of Dose Vol.		70		Pump Run=	10.13			(Itar + 5%)	0.4000		
Dose Volume		137		Tank Gal/IN	20			(ital - 07a)	0.4200		
Dose Pump Time		3.84		Elev. Head	7.30						
Drawdown In Inches	s	6.8									



#### VICINITY MAP (NTS) LEGEND:

- LEGEND: ZON

  EP EMSING ROW PPE 10/0

  EP FORCE PPE UNE

  EP FORCE PPE UNE

  EP EMSING ROW PPE IN EMSING PPE IN

1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.

2. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.

3. LINES NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS PLAT.

4. PROPERTY MAY BE SUBJECT TO ANY/ALL EASEMENTS AND RESTRICTIONS OF RECORD. THIS SURVEY IS A CORRECT REPRESENTATION OF THE LAND PLATED AND OR DEEDED AND HAS BEEN PREPARED WITHOUT THE BENEFT OF A TITLE REPORT. A NORTH CARQUINA LICENSED ATTORNEY—AT—LAW SHOULD BE CONSULTED RECARDING CORRECT OWNERSHIP, WIDTH AND LOCATION OF EASEMENTS, AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.

5.THIS PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AS INDICATED ON CID NO. 370328 PANEL 0526, SUFFIX J. HARNETT COUNTY WITH AN EFFECTIVE DATE OF

SIDEWALKS

TOTAL IMPERVIOUS AREA

IMPERVIOUS SURFACE TABLE 2,387 S.F. 592 S.F. 61 S.F. HOUSE DRIVEWAY

3,040 S.F.

6

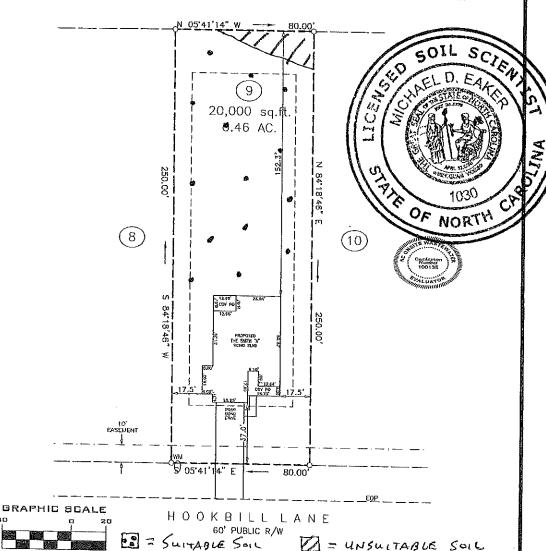
GERTIFICATE OF ACCURACY & MAPPING
I NICHOLAS M. FRENCH PLS CERTEY THAT THIS MAP WAS
DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD
SURVEY DONE UNDER MY SUPERVISION, AND THAT THE
ERROR DE CLOSURE AS COMPUTED BY CO-ORDINATES
IS LESS THAN 1:10,000.

PRELIMINARY
NICHOLAS M. FRENCH, PLS 1-4817 DATE

THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN, THIS MAP IS NOT FOR RECORDATION. NO THIE REPORT PROVIDED, ANY VISIBLE ENCROACHMENTS ARE SHOWN HEREON.

THIS MAP MAY NOT BE A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS AND HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH DEPODING PEGULIBELIEUE EDD DI ART WITH RECORDING REQUIREMENTS FOR PLATS.

SETBACKS: P.B. 2025. PG. 268 FRONT 33' SIDE 10' REAR 25' SIDE STREET 20 SEAL SURVE OF THE STATE OF THE



PROJECT: DUCKS LANDING PRAWN BY SURVEYED BY FIELD WORK DWG DAYE: 05-16-2026

1 INGH = 40 FT.

40

PLOT PLAN FOR

PRELIMINARY

121 BUILDERS

HOOKBILL LANE
LOT 9 DUGKS LANDING SUBDIVISION
ANDERSON GREEK TWP., HARNETT CO., NO
P.B. 2025, PE. 268



Page <u>1</u> of <u>2</u>

PROPERTY ID #: <u>Ducks Landing Lot 9</u>

COUNTY: <u>Hamett</u>

# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNI	ER: JSJ Builders,	Inc.		(Complete all	fields in full)		D.4	TT D	*	
ADDR	ESS: 1135 Robes	on St., Fayette					DA	1E EVAL	JATED: <u>6/12/</u>	25
LOCA	OSED FACILITY TION OF SITE:	/; SFD 69 Hookbill La	PR ne, Lillington, NC 27	OPOSED DESIGN	FLOW (.0400)	360 GPD			E: 0.46 ac	
WATE	ER SUPPLY: 🛭	Public 🗆 Sir	igle Family Well	☐ Shared Well ☐	Spring Flot	hor			CORDED:	
EVAL	UATION METH	OD: 🛮 Auge	er Boring   Pit		PE OF WAST				Y SETBACK;	
P R O F				RPHOLOGY OTHER PROFIL					eneuktu 🗆 I	L W W
L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
	LS 0-1%	0-2	LS/GR	VFR/NEXP	31"	31"	NA	NA	Suitable	CHOR
		2-26	LS/GR	VFR/NEXP	10YR 6/4		' ' '	147	0.30	
L		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 mott					
	LS 0-1%	0-4	LS/GR	VFR/NEXP	29*	36"	NA	NA	Suitable	
		4-29	LS/GR	VFR/NEXP	10YR 6/4	-	' ' '	' ' '	0.30	_
2		29-36	SCL/SC/WF SBK	FI/SEXP	10YR 5/8 10YR 7/1 mott					
		36-48	SCL/SC/MASS	FI/SEXP	10YR 5/8 5YR 5/4					
					10YR 7/1 mott					
	LS 0-1%	0-5	LS/GR	VFR/NEXP	28"	31"	NA	NA	Suitable	
2		5-28	LS/GR	VFR/NEXP	10YR 6/4				0.30	
3	ļ	28-31	SCL/SC/MM SBK	FI/SEXP	10YR 5/8 10YR 7/1 mott					
		31-48	SCL/SC/MASS	FI/SEXP	10YR 5/8 5YR 5/6					
					10YR 7/1 mott					
	LS 0-1%	0-6	LS/GR	VFR/NEXP	28"	31"	NA	NA	Quitable	
		6-28	LS/GR	VFR/NEXP	10YR 7/3	J.	177	INA	Suitable 0.30	
4		28-31	SCL/SC/MM SBK	FI/SEXP	10YR 5/8 10YR 7/1 mott					1
		31-48	SCL/SC/MASS	FI/SEXP	10YR 5/8 7.5YR 5/8					
			•		10YR 7/1 mott					
DE	SCRIPTION	INITIAL SYS	TEM EEDING OV						terstelle valette som en en gjø	
	e Space (.0508)	YES	TEM REPAIR SY YES		OVERGATION	0.800				
lystem T		Pump to Accp	eted Pump to Acc	cepted EVALUAT	SIFICATION (. ED BY: M. Eake	er	<u>e</u>			
ite LTA	nR m Trench Depth	0.30 gpd/ft			PRESENT; D. Ea					-
Commer	nts:	16"	16"							
	Add z	Const	APTER IN	THOMTON						
									<del></del>	

## SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Page 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 9
DATE OF EVALUATION: 6/12/25
COUNTY: Hamelt

P R O F I			SOIL MOI	RPHOLOGY	ОТНЕ	R PROFII	LE FACTO	ORS		
L E	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.9506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
5	LS 0-1%	0-6	LS/GR	VFR/NEXP	38"	38"	NA	NA	Suitable	CHON
		6-20	LS/GR	VFR/NEXP	10YR 6/4				0.30	
(Seemmen)		20-25	SCL/SC/MM SBK	FI/SEXP	10YR 5/8					
		25-38	SCL/SC/WF SBK	FI/SEXP	10YR 5/8 7.5YR 5/8 mtX 10YR 8/1 few					
		38-48	SCL/MASS	FI/SEXP	mix above with 10YR 7/1 mot					
6	LS 0-1%	0-6	LS/GR	VFR/NEXP	31*	36"	NA	NA	Suitable	
		6-23	LS/GR	VFR/NEXP	10YR 6/4		14/7	\	0.30	
n steel best		23-31	SC/MM SBK	FI/SEXP	10YR 5/8					
		31-36	SIC/MASS	FI/SEXP	10YR 5/8 10YR 7/1 molt					
		36-48	SCL/SC/MASS	FI/SEXP	10YR 5/8 7.5YR 5/8 10YR 7/1 mix					
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the publishers	Ī									
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COMA	MENTS:									

NCDHHS/DPH/EHS/OSWP

Revised January 2024 Form SSE-24.2



## 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
<b> </b>	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: BSlclaims@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.

ITEM 4	COVERAGE INCLUDED AS OF THE INCEPTION DATE IN ITEM 2;
	Design Professionals Liability Coverage
ITEM 5	
	PROFESSIONAL LIABILITY COVERAGE LIMITS
	Professional Services and Network and Information Security Offenses Coverage Limits: \$2,000,000 for each Claim; not to exceed \$2,000,000 for all Claims
	Deductible: \$2,500 each Claim \$7,500 all Claims
	Retroactive Date: July 27, 2005
	Knowledge Date: May 1, 2024
TEM 6	ADDITIONAL BENEFITS LIMITS:
	Crisis Event Expenses Limits: \$10,000 for each Crisis Event \$30,000 for all Crisis Events
	Disciplinary or Regulatory Proceeding Expenses Limits: \$25,000 for each Disciplinary or Regulatory Proceeding \$50,000 for all Disciplinary or Regulatory Proceedings
TEM 7	PREMIUM FOR THE POLICY PERIOD: \$8,423.00 Policy Premium
TEM 8	OPTIONAL EXTENDED REPORTING PERIODS:
	Additional Premium Percentage: Additional Months:  125% 12 185% 24 200% 36
	240%