HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, Lillington, NC 27546-0400 Phone (910) 893-8743 / Fax (910) 893-3594 www.halowensoil.com

Site Address: 157 Rainbow Drive, Dunn, NC 283	34
County: Harnett	PIN 1506-18-7356
LHD Reference: SFD2411-0084	HOA Permit #: HOA-AOWE-2409-06
Applicant:	
Name: BVA Builders Inc.	
Address: 1300 Benson Road, Ste. 110 Ga	rner, NC 27529
I, Anna B. Ford	, acknowledge receipt of the
Licensed Soil Scientist Report which include	es:
Signed and sealed copy of the AC	OWE's report that includes the information in G.S.
130A-336.2(k)	
Authorization to Operate	
Operation and Management Program	n
I accept the septic system installation and	understand that I will be responsible for continued
adherence to the Operations and Manageme	ent program established by the AOWE.
Signature Signature	4.11.25 Date

Soil Science Investigations • Wetland Delineations, Permitting, and Consulting

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28 February 2025

BVA Builders Inc. 1300 Benson Road, Ste. 110 Garner, NC 27529

Reference: LSS Report for Authorization to Operate (ATO) 157 Rainbow Drive, Dunn, NC 28334 LHD # SFD2411-0084 AOWE # HOA-AOWE-2409-06

Dear BVA Builders Inc.,

This LSS Report is being provided pursuant to and meets the requirements of G.S. 130A-336. This report is based on information provided by the property owner or their representative. Hal Owen & Associates, Inc. is not responsible for false or misleading information that may have been provided to us in pursuit of this permit, nor for concealed conditions on the property. Hal Owen & Associates Inc. does not warrant that the septic system will continue to function satisfactorily in the future.

The septic system for the above referenced property has been installed and was inspected by Hal Owen & Associates staff on 25 February 2025. The system has been installed in compliance with applicable NC General Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the AOWE Permit. The system was installed in conformance with the Permit design and specifications. Enclosed with this report are the Septic System Final Inspection Report, As-Built map (Figure 1), and Operation and Management Program.

You will need to sign a document confirming receipt of this report and acceptance of the installed system (pg 1) and submit this report to the Local Health Department (LHD). The LHD shall issue a certificate of occupancy upon receipt of a complete ATO.

I appreciate the opportunity to provide this service. If you have any questions or need additional information, please contact me at your convenience.





Sincerely,

Hal Owen

Licensed Soil Scientist

Authorized Onsite Wastewater Evaluator

Contacts

APPLICANT

Applicant Name	BVA Builders Inc.
Mailing Address	1300 Benson Rd, Suite 110, Garner, NC 27529
Telephone Number	919-520-2181
E-mail Address	aford@vfgrealty.com

SOIL SCIENTIST

Hal Owen & Associates, Inc.
PO Box 400, Lillington, NC 27546
910-893-8743 Fax: 910-893-3594
hal@halowensoil.com
Hal Owen, LSS#1102 and AOWE# 10036E
Jocelyn Proulx
Jocelyn Proulx #9943I

INSTALLER

Company Name	Pro Septic Tanks, LLC
Mailing Address	136 Sugartree Ln, Mount Olive, NC 28365
Telephone Number	(919) 273-1784
E-mail Address	proseptictanks@gmail.com
Installer & Certification #	Litzy Herrera #11274

LOCAL HEALTH DEPARTMENT

Agency Name	Harnett County Health Department Environmental Health Division
Mailing Address	307 W Cornelius Harnett Blvd, Lillington, NC 27546
Telephone Number	(910) 893-7547
LHD Application #	SFD2411-0084

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Septic System Final Inspection Report

Property Identifiers

County	Harnett	PIN	1506-18-7356
Size (Acre)	0.34	County PID	06150601 0050
Site Address	157 Rainbow	Dr, Dunn, NC 28334	
S/D Name and Lot#	Hannah Heigh	ts Lot 15 & 16	

System Description

Facility Type	Single Family Residence
Basement	No
Basis of flow	3 bedrooms
Wastewater Strength	Domestic
Design Wastewater Flow	360 gpd
Water Supply	Public
.0403 Eng Low Flow	No
Soil LTAR	0.35
System Type	IIIbg

Installation

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Date	25 February 2025
System Inspector	Jocelyn Proulx, #9943I
Installer	Litzy Herrera #11274

Septic Tank:

Volume (gallons)	1000
Brand and Tank ID#	MCP STB 814
Date of Manufacture	NA
Certified watertight	NA NA
Distance to Structure	6'
Elevation of tank inlet	4' 11"
Elevation of tank outlet	5' 2''

Effluent Filter:

- 2		
1 8	3 (1 1 3 (1 1	D 1 1 1 DI (0
- 8	Make and Model	Polylok PL-68
- 3	With and Wiodel	1 Office 1 D CC

Pump Tank:

Volume (gallons)	1000
Brand and Tank ID#	MCP PT 53
Date of Manufacture	NA
Certified watertight	NA
Elevation of tank inlet	5' 3 1/2"
Elevation of tank outlet	5' 6"

LSS Report for Authorization to Operate (ATO)

¹⁵⁷ Rainbow Dr.

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Pump:

Make and Model	Liberty LE40 Series
Pump Sys- Elevation Head	6.56
Pump Sys- Friction Loss	0.90
Pump Sys- Design Head	2.0
Pump Sys- TDH	9.46
GPM (actual)	21.0

Control Panel:

Manufacturer	APS Simplex Model No. APS120-AB
--------------	---------------------------------

Distribution:

Supply Line Length to Distribution	28'
Supply Line Diameter	2"
Distribution Device:	Pressure Manifold
Number of outlets (laterals)	3

Drainfield:

Туре	Quick4 Standard Chamber
Distance to Structure	26'
Distance to Well	NA

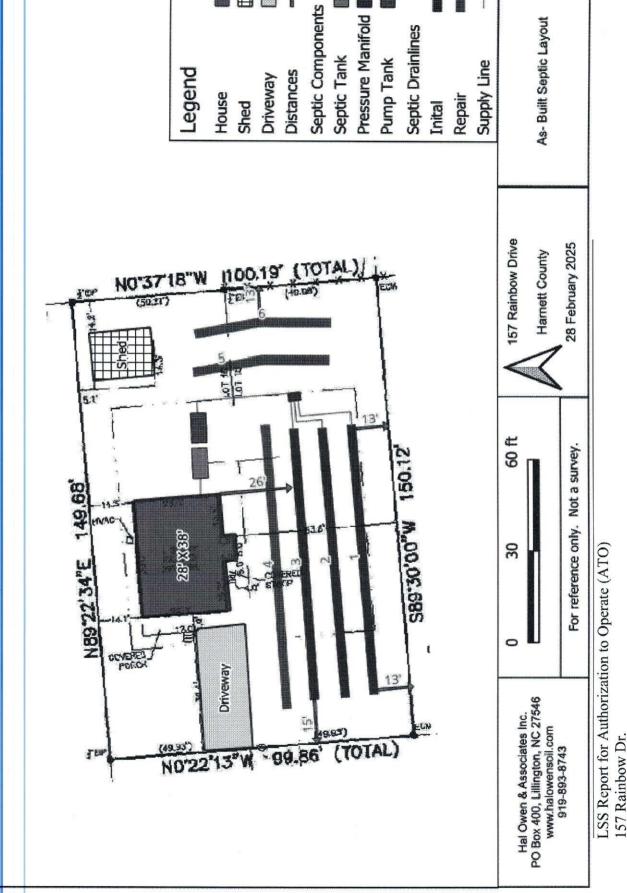
Trench Depth Trench Spacing				36"
				chamber
	Length (ft)	Start	Middle	End
Line 3	86	4' 10"	4' 10"	4' 10"
Line 2	86	4' 11"	4' 11"	4' 11"
Line 1	86	5' 1"	5' 1"	5' 1"
Total	258			

All elevations are given as relative grade rod reading.

Notes:

LSS Report for Authorization to Operate (ATO)

10 No.

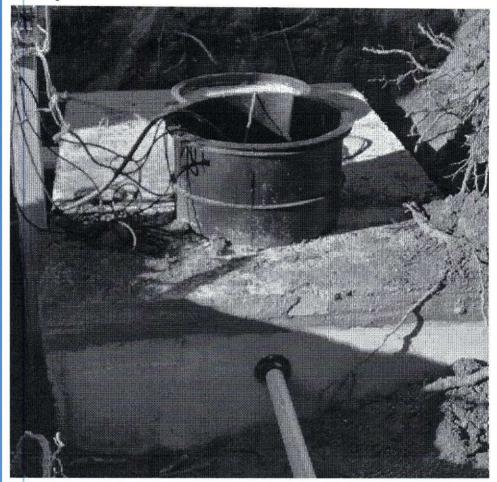


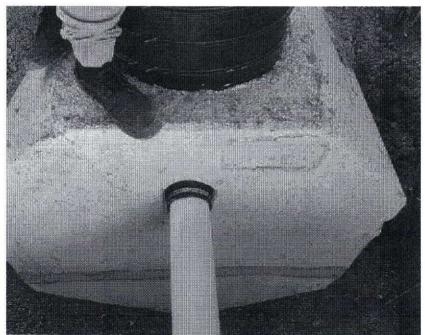
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AOWE # HOA-AOWE-2409-06

28 February 2025

Installation pictures

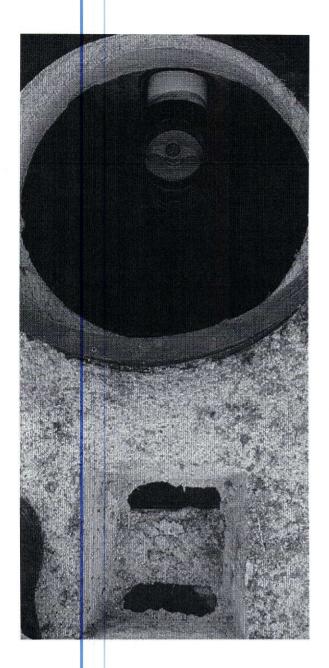




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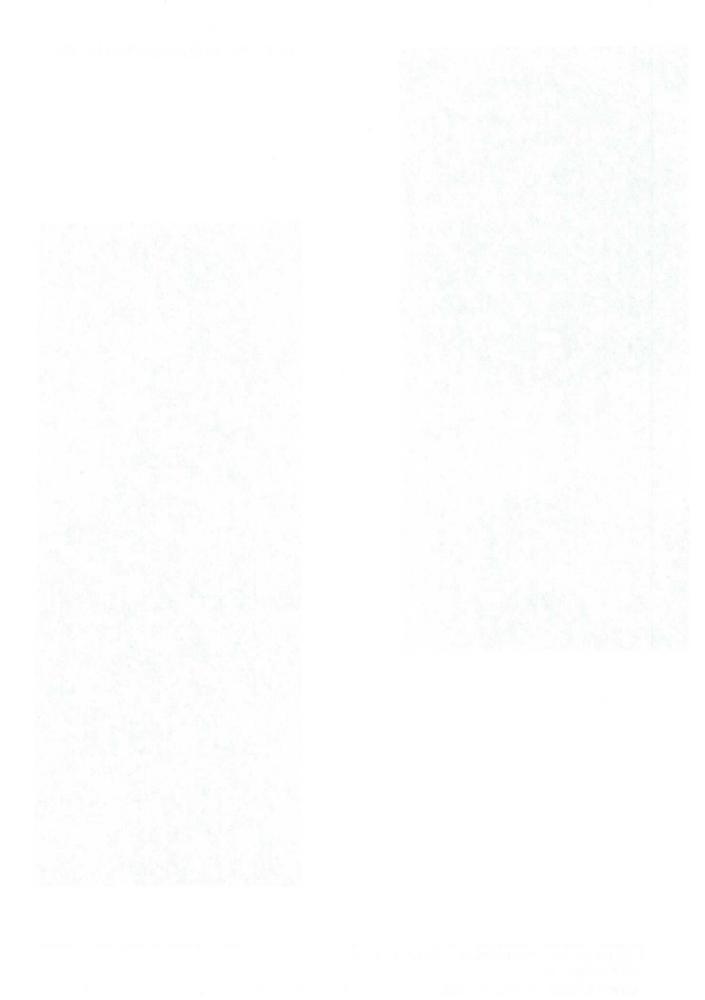
157 Rainbow Dr.

HAL OWEN & ASSOCIATES, INC.

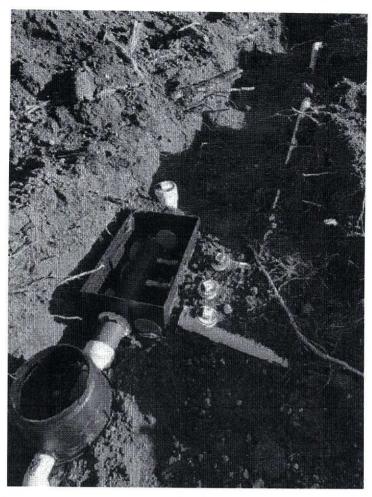




LSS Report for Authorization to Operate (ATO)
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AOWE # HOA-AOWE-2409-06
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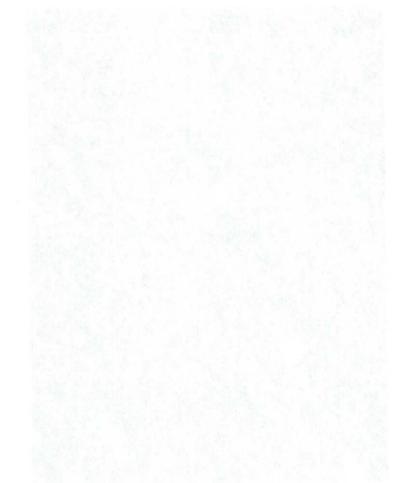
HAL OWEN & ASSOCIATES, INC.



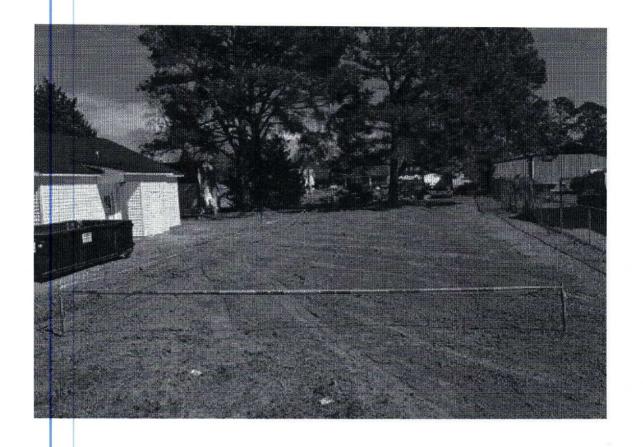


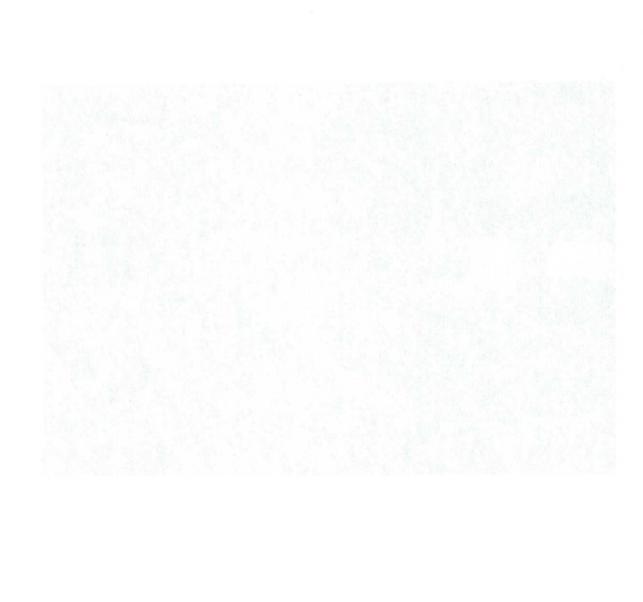
LSS Report for Authorization to Operate (ATO) 157 Rainbow Dr.











Operation and Management Program

In accordance with G.S. § 130A-336.2, the owner is responsible for continued adherence to the operations and management program. Septic systems safely treat and dispose of wastewaters produced in the bathroom, kitchen, and laundry. These wastewaters may contain disease-causing germs and pollutants that must be treated to protect human health and the environment. Septic systems must be properly used, operated, and maintained by the homeowner to assure the long-term performance of the system.

P	ER	MIT	CONDITIONS:	

- I. Performance: System shall perform in accordance with Section .1300.
- II. Monitoring: As required by Section .1300.
- III Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

 Other:

Subsurface system operator required? Yes ______ No___X

If yes, see attached sheet for additional operation conditions, maintenance and reporting.

IV. Operation: _____

V. Other: _____

TABLE XXXII. Management responsibilities based on wastewater system classification type and description.

System Classification Type and Description	LHD Compliance Inspection Frequency	Management Entity	Management Entity Minimum Maintenance Inspection Frequency		
IIb- Accepted wastewater gravity system	N/A	Owner	N/A		
IIIg- Other non- conventional systems	N/A	Owner	N/A		

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KNOW WHERE YOUR SEPTIC SYSTEM IS LOCATED

Your property has an onsite subsurface sewage waste disposal system. Familiarize yourself with the location of the system including the tanks, distribution devices, and disposal fields (including repair area). These areas shall be protected from excavation, building additions, outbuildings, pool construction, and soil disturbing activities. Prohibit vehicular traffic over the ground absorption field.

DAY-TO-DAY MANAGEMENT

Don't use too much water.

- The drainfield does not have unlimited capacity.
- Typical daily water use is 50 gallons per person.
- ♦ The soil drainfield usually has a maximum daily design capacity of 120 gallons per bedroom, even for short periods of time.
- Overloads can occur seasonally, daily, or on the weekend.
- Water conservation will extend the life of your system.
- Repair dripping faucets and toilets.

Limit disposal to sewage.

- Don't use your septic tank as a trash can for cigarette butts, tissues, sanitary napkins, cotton swabs, cat box litter, coffee grounds, or disposable diapers.
- Restrict the use of your garbage disposal. These add quite a lot of extra solids.
- Don't pour grease or cooking oil down the drain.
- Don't poison your system with harmful chemicals such as solvents, oils, paints, thinners, discarded medications, disinfectants, pesticides, poisons, and other substances.
- Save money. Commercial septic tank additives are usually not necessary.

Protect the system from physical damage (site maintenance).

- Keep the soil over the drainfield covered with vegetation to prevent soil erosion.
- Don't drive vehicles over the system.
- Avoid construction over the system and repair area.
- Don't cover the tank or drainfield with asphalt or concrete.
- Do not install irrigation systems over your drainfield as these could damage the system and/or hydraulically overload the soils.

Dispose of all wastewater in an approved system.

- Don't put in a separate pipe to carry wash waters to a side ditch or the woods. This is illegal.
- Don't connect pipes from air conditioners or ice makers to the septic system.

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PERIODIC MAINTENANCE AND REPAIR

Home and yard (site maintenance):

- Protect and maintain the site of your septic tank and drainfield.
- ♦ In the drainfield area, cut down and remove trees that like wet conditions. This includes willows, elms, sweetgums, and some maples.
- ♦ Landscape the yard to divert surface waters away from the tank and drainfield. Eliminate depressional areas within the drainfield.
- Be sure that the water from the roof, gutters, and foundation drains does not flow over the system.
- Maintain drainage ditches, subsurface tiles, and drainage outlets so that water can flow freely from them.

Septic tank:

- Ensure tank risers remain accessible for measuring and pumping solids as well as cleaning the effluent filter.
- ♦ Measure how quickly sludge and scum accumulate in the tank. Pump septage when solids occupy 1/3 to 1/4 of the liquid capacity of the tank (frequency 1 to 3 years).
- Don't wait until your drainfield fails to have your tank pumped. By then, the drainfield may be ruined. With septic systems, an ounce of prevention is worth a ton of cure!

Table 1. Estimated septic tank inspection and pumping frequency (in years). Tank Size (gallons)

	Number of People Using the System							
Tank Size (gallons)	1	2	4	6	8			
900	11	5	2	1	<1			
1000	12	6	3	2	1			
1250	16	8	3	2	1			
1500	19	9	4	3	2			

SIGNS OF POSSIBLE SEPTIC SYSTEM PROBLEMS

- Sewage backing up into your toilets, tubs, or sinks.
- Slowly draining fixtures, particularly after it has rained.
- ♦ The smell of raw sewage accompanied by soggy soil or sewage discharged over the ground or in nearby ditches or woods.
- Note: pump systems sewage may come to the ground surface when the pump is turned on and then disappear after the pump turns off. This is still a system failure and must be repaired.
- An alarm flashing (red light) or beeping in the house or in the yard indicating a pump is not working properly or that the water level in a pump tank is too high and close to failure.
- Don't attempt to repair a failing system yourself. Get a repair permit and hire an experienced contractor.

REGULATIONS AND PRECAUTIONS:

 Sewage contains germs that can cause diseases. Never enter a septic tank. Toxic and explosive gases in the tank present a hazard. Old tanks may collapse. Electrical controls present a shock and spark hazard. Secure the septic tank lid so that children cannot open it.

For more information about septic systems, contact your county Extension agent or local health department. https://content.ces.ncsu.edu/septic-system-owners-guide

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Experience and study have shown that pressure manifold systems require routine maintenance in order to function properly. Items 1, 4, and 6 are also recommended for conventional septic systems. The maintenance schedule frequency is as follows:

System Component	Frequency	Maintenance
Septic Tank	6-12 months 1-3 years	Check riser condition (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Check and clean septic tank filter. Pump septage when 1-3 to ¼ of the liquid capacity of the tank is
Pump or Dosing Tank	6-12 months	occupied by solids. Check riser conditions (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Pump sludge accumulation as required and when septic tank is pumped. Check pump(s), controls, floats, electrical connections, and alarm for proper operation. Wash (hose) sludge accumulation from pump housing.
Supply Lines (Manifold)	6-12 months	Check for settling, pipe exposure and leakage
Ground Absorption Field	1-4 weeks 6-12 months	Maintain vegetative cover (mow grass and remove weeds and brush). Check for settling, erosion and surfacing effluent. Check site drainage, eliminate low or settled areas and divert surface or shallow groundwater movement around fields.
Pressure Manifold	6-12 months	Flush sludge from pressure manifold (any discharge sludge and effluent is to be treated with a chlorine solution). Check and reset pressure head.
General	At all times	Prohibit vehicular or equipment traffic on ground absorption field. Prohibit tillage (gardening) or other soil disturbance over septic field. Practice water conservation to reduce wastewater load on system. Do not permit entry of grease and non-domestic waste to system. Use of garbage disposal is prohibited. Addition of chemical or biological additives has not been demonstrated to be necessary to maintain proper system function. Prevention of root intervention on lateral lines and trenches may be necessary on certain sites. Surface and groundwater diversion structures

PREVENTIVE MAINTENANCE RECORD

Your Septic System Pumper						
	Name:					
	Address:					
	Phone:					
Date	System Installed:					
Date	Work Done		Firm		Cost	
	,					
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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/17/2025

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 have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

RODUCER

Powells Insurance

Powells Insur

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PRODUCER		CONTACT NAME: Bertha Sanchez Cruz	
Powells Insurance		PHONE (A/C, No, Ext): (910) 590-2800 (A/C, No): 91059	003600
P.O. Box 376		ADDRESS: bcruz@powellsinsurance.com	
		INSURER(S) AFFORDING COVERAGE	NAIC#
Clinton	NC 28329	INSURER A: OHIO SECURITY INS CO	24082
INSURED		INSURER B: MID SOUTH INSURANCE CO	55326
Pro Septic Tanks LLC		INSURER C:	
136 Sugartree Ln		INSURER D :	
		INSURER E :	
Mount Olive	NC 28365-5425	INSURER F :	
COVERAGES	CERTIFICATE NUMBER:	REVISION NUMBER:	
INDICATED. NOTWITHSTA	THE POLICIES OF INSURANCE LISTED BELOW HAVE INDING ANY REQUIREMENT, TERM OR CONDITION OF	BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIO ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH TH	DD IIS

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

TYPE OF INSURANCE

ADDITIONAL TO SUPPLY HAVE BEEN TO SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

LTR	_	TYPE OF INSURANCE	INSD	WVD	POLICY NUMBER	(MM/DD/YYYY)	(MM/DD/YYYY)	LIMIT	S	
	X	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	\$	1,000,000
		CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	300,000
								MED EXP (Any one person)	\$	15,000
Α					BKS68225495	09/13/2024	09/13/2025	PERSONAL & ADV INJURY	\$	1,000,000
		L'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$	2,000,000
	X	POLICY PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$	2,000,000
		OTHER:							\$	
	AUT	OMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	\$	
		ANY AUTO						BODILY INJURY (Per person)	\$	
		OWNED SCHEDULED AUTOS ONLY						BODILY INJURY (Per accident)	\$	
		HIRED NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$	
									\$	
		UMBRELLA LIAB OCCUR						EACH OCCURRENCE	\$	
		EXCESS LIAB CLAIMS-MADE						AGGREGATE	\$	
		DED RETENTION \$							\$	
		RKERS COMPENSATION EMPLOYERS' LIABILITY Y/N						PER OTH- STATUTE ER		
В	ANY	PROPRIETOR/PARTNER/EXECUTIVE Y	N/A		WC 08263 2024	09/19/2024	09/19/2025	E.L. EACH ACCIDENT	\$	500,000
	(Mari	Mandatory in NH)			W C 00203 2024	09/19/2024	09/19/2023	E.L. DISEASE - EA EMPLOYEE	\$	500,000
	DES	s, describe under CRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$	500,000
DESC	RIPT	ION OF OPERATIONS / LOCATIONS / VEHIC	LES (ACORI	0 101, Additional Remarks Schedule, may	be attached if m	ore space is requ	uired)		

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER	CANCELLATION
Hal Owen & Associates Inc.	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
PO BOX 400	AUTHORIZED REPRESENTATIVE
Lillington NC 27546	Bertha Sanchez Cruz