Permit #:	
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ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authoriza	ation Fee \$	
	IMPROVEME	ENT PERMIT FOR G.S. 130	A-335(a2)	
County:				
PIN/Lot Identifier:				
Issued To:				
Property Location:				
Subdivision (if applicable)		Lot #:	Block:	Section:
LSS Report Provided: Yes	No 🗌			
If yes, name and license num	ber of LSS:			
New 🗌	Expansion	System Relocation	Change of I	Use 🗌
Proposed Structure:				
Number of bedrooms:	Number of Occupants:	Other:		
Design Wastewater Strength	: domestic	high strength	industrial process	
Proposed Design Daily Flow:	GPD	Proposed LTAR (Initial):	Proposed LTAR (Repa	ir):
Proposed Wastewater Syster	n Type*:	(Initial) Pu	ımp Required: 🗌 Yes 📗	No May be required
Proposed Wastewater Syster	n Type*:	(Repair) Pu	mp Required: Yes	No May be required
*Please include system classi	fication for proposed wastewa	iter system types in accordance wi	ith 15A NCAC 18A .1961 Ta	ble V(a)
Saprolite System (initial):	Yes No Saprolite	System (repair): 🗌 Yes 🔲 No		
Fill System (Initial): Yes	☐ No If yes, specify: ☐ New	Existing (when adding more	e than 6 inches of fill to syst	tem area provide a fill plan)
Fill System (repair): 🗌 Yes	☐ No If yes, specify: ☐ New	Existing (when adding more	e than 6 inches of fill to sys	tem area provide a fill plan)
Usable Soil Depth (Initial):	Usable So	il Depth (Repair):		
Max. Trench Depth (Initial)‡:	Max. Trer	nch Depth (Repair)‡:	[‡] Measured on the d	lownhill side of the trench
Artificial Drainage Required:	Yes No If yes, please	specify details:		
Type of Water Supply: 🔲 Pr	ivate well	Shared well Municipal Su	upply Spring C	Other:
Drainfield location meets rec	quirements of Rule .1945: Yes	☐ No ☐ Drainfield location	meets requirements of Rul	le .1950: Yes 🔲 No 🗌
Permit valid for: Five year	rs [site plan submitted pursuar	nt to GS 130A-334(13a)] 🔲 No e	xpiration [plat submitted p	ursuant to GS 130A-334(7a)
Permit conditions:				
Licensed Soil Scientist Print N	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			
Licensed Soil Scientist Signat	ure: Xlex Xda	m₽	Date:	

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF PUBLIC HEALTH



Permit #:

This Section for Local Health Department Use Only

	Initial submittal received:		by		
		Date	Initials	_	
G.S. 130A-335(a3) states the follo	wing:				
When an applicant for an Improvement Padepartment, the common form developed within five business days of receiving the comport includes all of the required compores shall notify the applicant of the component department to cure the deficiencies in the is complete within five business days after act within any period set out in this subsect common form for use as the Improvement	by the Department, and a soil evaluat pplication, conduct a completeness re ents. If the local health department de ts needed to complete the Improveme Improvement Permit. The local health the local health department receives t tion, the applicant may treat the failu	ion pursuant to su view of the submit etermines that the nt Permit. The app department shall i the additional infor	bsection (a2) of this s tal. A determination Improvement Permit Ilicant may submit ac make a final determi rmation from the app	ection, the local healt of completeness mea is incomplete, the loc Iditional information t nation as to whether t blicant. If the local hec	th department shall, ns that the Improvement al health department to the local health the Improvement Permit alth department fails to
The review for completeness of the Permit is determined to be:	nis Improvement Permit was co	onducted in acc	cordance with G.	S. 130A-335(a3).	This Improvement
☐ Incomplete (If box is checked	, information in this section is	required.)			
The following items are missing:					
8/ 4	7/25 1			FC W	
Copies of this were sent to the LS	S and the Applicant on	Date			
State Authorized Agent:				Date:	
☐ Complete	1 95//			121	
State Authorized Agent:		-1/-3	·4(1)	Date:	
This Improvement Permit is issue attached here. The issuance of t permit holder is responsible for o to revocation if the site plan, plaownership of the site. This perm Disposal and to the conditions of	nis permit by the Health Depa hecking with appropriate gove t, or the intended use changes it is subject to compliance wit this permit. t's authorized agents, and the	rtment in no we erning bodies in The Improve th the provision	yay guarantees to in meeting their ement Permit sha ns of the Laws ar epartments shal	he issuance of ot requirements. Th all not be affected nd Rules for Sewa I be discharged a	her permits. The his permit is subject d by a change in nge Treatment and nd released from
any liabilities, duties, and respon evaluations, submittals, or action	• •		-	_	
Improvement Permit Expiration	Date:				

See attached site sketch



Permit #:	
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Re-submittal of Improvement Permit

_				
	LHD USE ONLY: This IP resubmittal received:		by	
L		Date	Initials	
Γhe following ite	ems are being resubmitted pursuant to G.S. 130A-33	5(a3) for issuance of	f the Improvement Permit:	
	SI/	ATT	<i>b</i>	
s accurate and c	hereby attest tha cientist (Print Name) complete to the best of my knowledge and that the paws, regulations, rules, and ordinances.		equired to be included with	
Signature	of Licensed Soil Scientist		Date	
	The section below is for Local Health Department use	e after submittal of it	ems noted as missing above.	
LHD Follow-u	p Completeness Review of Improvement P	Permit		
	ompleteness of this Improvement Permit re-submittermit is determined to be:	tal was conducted i	n accordance with G.S. 130A	\-335(a3). This
☐ Incomplete ((If box is checked, information in this section is requ	uired.)		
Γhe following ite	ems are missing:			
Copies of this we	ere sent to the LSS and the Applicant on			
State Authorized	Agent:		Date:	
☐ Complete				
State Authorized	l Agent:		Date:	



Permit #:	
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CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County:
PIN/Lot Identifier:
issued To:
Property Location:
AOWE/PE Plans/Evaluations Provided: Yes 🔲 No 🔲 If yes, name and license number of AOWE/PE:
Facility Type:
New Expansion Repair System Relocation Change of Use
Basement? Yes No Basement Fixtures? Yes No
Type of Wastewater System*(Initial)(Repa
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Design Daily Flow: GPD Wastewater Strength: _ domestic _ high strength _ industrial process
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies?
Installation Requirements/Conditions
Septic Tank Size: gallons Total Trench/Bed Length: feet Trench/Bed Spacing: feet on center
Trench/Bed Width: inches LTAR: gpd/ft ²
Soil Cover: inches Slope Corrected Maximum Trench/Bed Depth [‡] : inches * Measured on the downhill side of the trench
Aggregate Depth:inches above pipeinches below pipeinches total
Pump Tank Size (if applicable): gallons Requires more than 1 pump? 🔲 Yes 🔲 No
Pump Requirements: ft. TDH vs GPM Grease Trap Size (if applicable): gallons
Distribution Method: Serial D-Box or Parallel Pressure Manifold(s) LPP Other:
Artificial Drainage Required: Yes 🔲 No 🔲 If yes, please specify details:
Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreement Required [.1937(h)]: 🔲 Yes 🔲 No
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: 🔲 Yes 🔲 No
Declaration of Restrictive Covenants: Yes No
Pre-Construction Conference Required: Yes No No
Conditions:
ACTUAL TO SELECT OF THE PROPERTY OF THE PROPER
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference
into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.
AOWE/PE Print Name: Expiration Date:
AOWE/PE Signature: Date:

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch



Permit #:

This Section for Local Health Department Use Only

	Initial submittal received:	by	
		Date	Initials
G.S. 130A-335(a5) states the follo	_		
mprovement Permit and Construction All Department, and any necessary signed and any necessary signed and angineer or a person certified pursuant to department shall, within five business dath the Construction Authorization or Improvements needed to conditional information to the local health Authorization. The local health department fails to act within any period apply for the building permit for the project of the engineer submitting the evaluation or Improvement Permit and the local health department, and the local health department and the local health department, and the local health department shall health shal	uthorization application together, the pend sealed plans or evaluations conducted of Article 5 of Chapter 90A of the General ys of receiving the application, conduct a green Permit and Construction Authorizization or Improvement Permit and Construction or Improvement Permit and Construction or Improvement Permit and Construction Authorization of the Construction Authorization of the Sall make a final determination as to interest and sall make a final determination as to interest and the subsection, the applicant sect upon the decision of completeness of the point or if the local health department fair in pursuant to this subsection may requited Construction Authorization for cause. Let	rmit fee charged by the lood by a person licensed purson licensed purson licensed purson licensed purson licensed purson licensed purson licensed l	ntion together, submits a Construction Authorization, or an cal health department, the common form developed by the suant to Chapter 89C of the General Statutes as a licensed of On-Site Wastewater Evaluator, the local health the submittal. A determination of completeness means that required components. If the local health department the complete, the local health department shall notify the add Construction Authorization. The applicant may submit toon or Improvement Permit and Construction on Authorization or Improvement Permit and Construction and information from the applicant. If the local health that as a determination of completeness. The applicant may ration or Improvement Permit and Construction ass days. The Authorized On-Site Wastewater Evaluator or repartment revoke or suspend the Construction as Authorized On-Site Wastewater Evaluator or licensed and Construction Authorization pursuant to G.S.
The review for completeness of t	this Construction Authorization v	was conducted in acc	ordance with G.S. 130A-335(a5). This
Construction Authorization is de	termined to be:		
☐ Incomplete (If box is checked	d, information in this section is re	equired.)	
The following items are missing:			
Copies of this were sent to the A	OWE/PE and the Applicant on _	Date	W 76 //
State Authorized Agent:			Date:
Complete	1 Comment		15/8
State Authorized Agent:	J. PRIL	12 1776	Date of Issuance:
attached here. This Construction Construction Authorization shall to compliance with the provision of the Department, the Department in liabilities, duties, and respondans, evaluations, preconstruct the General Statutes as a license Authorized On-Site Wastewater agents, and the local health dep	n Authorization is subject to rev I not be affected by a change in ns of the Laws and Rules for Sev nt's authorized agents, and the nsibilities imposed by statute or cion conference findings, submit ed engineer or a person certified Evaluator in GS 130A-335(a2), (ocation if the site plan ownership of the site wage Treatment and local health department in common law from tals, or actions from a pursuant to Article (a5), and (a7). The Dend bear liability for the	ing the signed and sealed plans or evaluations an, plat, or the intended use changes. The ite. This Construction Authorization is subject Disposal and to the conditions of this permit. The entry shall be discharged and released from many claim arising out of or attributed to a person licensed pursuant to Chapter 89C of 5 of Chapter 90A of the General Statutes as an epartment, the Department's authorized their actions and evaluations and other pursuant to GS 130A-337.
Construction Authorization Expi	ration Date:		
·		<u></u>	
	dia .		

See attached site sketch



Permit #:	
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Re-submittal of Construction Authorization

	LUDUSE ONLY. This CA resubmitted received:		h.,	
	LHD USE ONLY: This CA resubmittal received:	Date	by	
The following it	tems are being resubmitted pursuant to G.S. 130A-33	5(a5) for issuance of	of the Construction Authoriza	ation:
	ST	ATT	<i>Sh.</i>	
l,		nt the information r	equired to be included with	this re-submittal
	nsite Wastewater Evaluator (Print Name) complete to the best of my knowledge and that the	proposed Construc	tion Authorization mosts all	annlicable
	and local laws, regulations, rules, and ordinances.	proposed construc	tion Authorization meets air	аррисавіе
Signatur	re of Authorized On-Site Wastewater Evaluator	1	Date	
	The section below is for Local Health Department use	e after submittal of it	ems noted as missing above.	
LHD Follow-ւ	up Completeness Review of Construction A	uthorization		
	completeness of this Construction Authorization re-s on Authorization is determined to be:	ubmittal was condu	ucted in accordance with G.S	. 130A-335(a5).
☐ Incomplete ((If box is checked, information in this section is requi	red.)		
The following it	ems are missing:			
	OLIAN 35° OLIAN	M AIDE	19	
Copies of this w	vere sent to the AOWE/PE and the Applicant on	Date	_	
State Authorize	d Agent:		Date:	
☐ Complete				
State Authorize	d Agent:		Date:	

6

Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761

alexadams@bcsoil.com

July 25, 2023 Project #1236

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335 (a2), (a5), and (a6)"

"This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5)."

RE: 129 Hawksmoore Ln, Lillington. NC (Harnett County) for DR Horton Homes

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 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". From this evaluation, ASC is providing the attached 4-bedroom septic design.

The suitable soils found on the subject property were relatively consistent 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.

Please find the attached wastewater soil/site evaluation forms for specific soil properties found in the initial and repair areas as well as assigned soil long term acceptance rate (LTAR). Numerous soil borings were made throughout the property and representative soil profile descriptions for the primary septic field and repair area are provided. A location sketch for profile descriptions is also attached. The initial and primary septic fields were sized based on a flow rate of 480 gallons/day and utilizing Accepted Status. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the primary and repair (if needed) system on contour, see attached site plan for the primary system and repair locations. 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 the installation is in question at the time of installation call me (Alex Adams) at 919-414-6761.

This report discusses the location of provisionally suitable soils identified on the property and does not guarantee the future function of any waste water disposal system installed.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime.

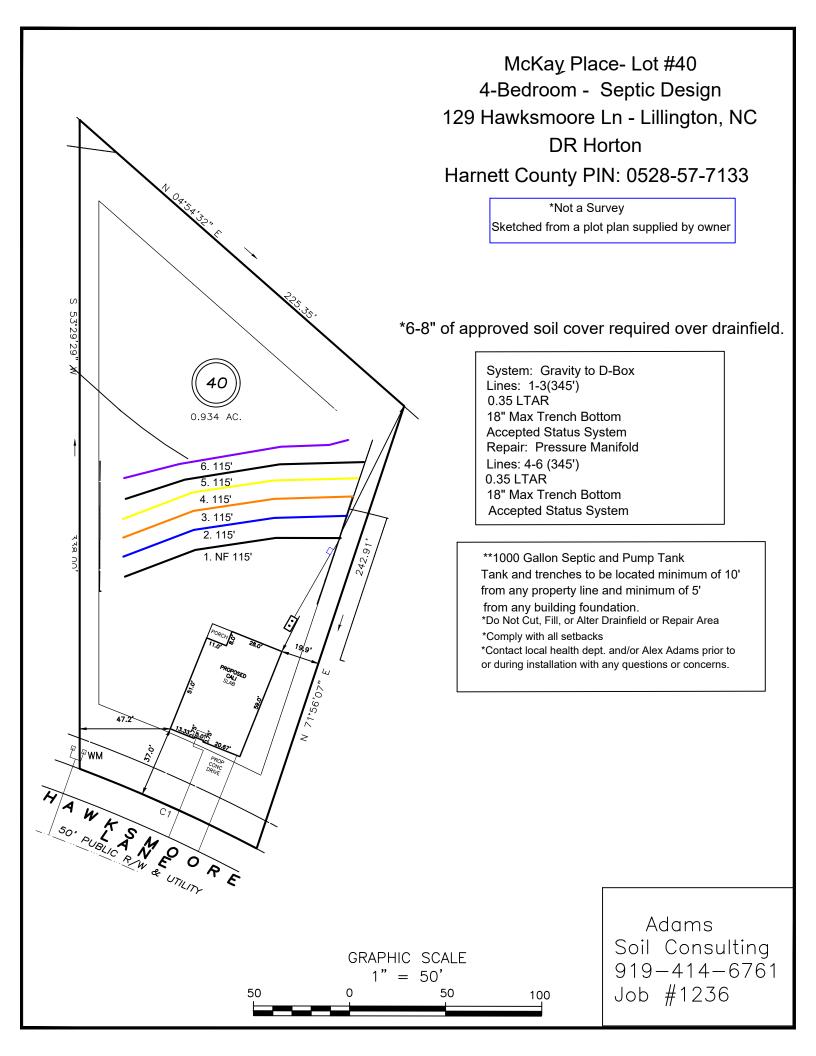
Sincerely,

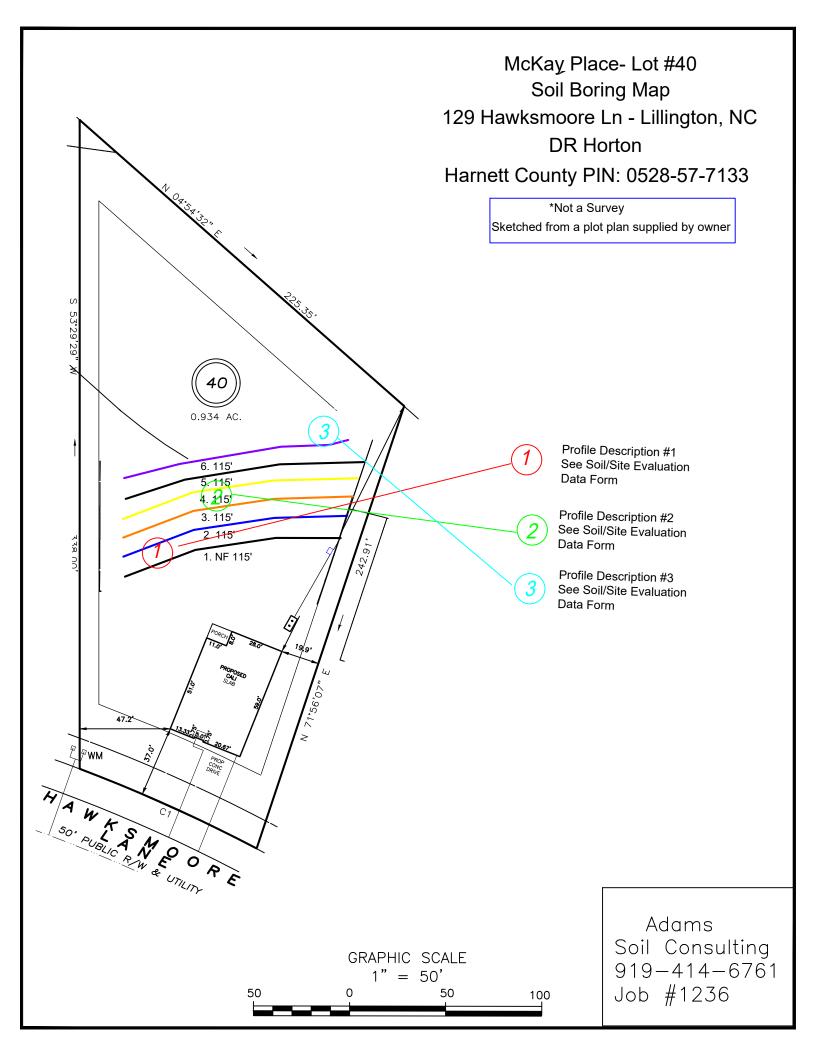
Alex Adams

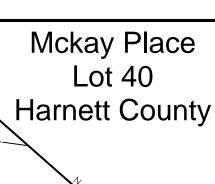
NC Licensed Soil Scientist #1247 AOWE Certification: 10021E







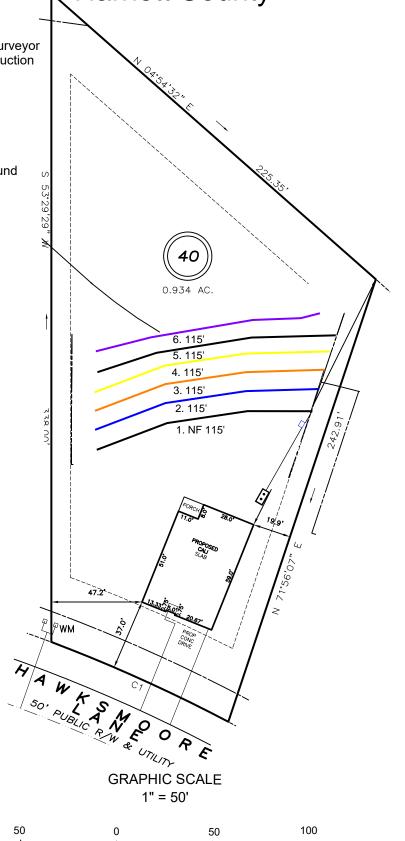




- *House footprint to be field staked by surveyor and system verified prior to any construction
- **Septic area must not be altered by construction activities.
- ***No cuts of 2' or greater within within 15' of septic area
- **** Recommend protective barrier around septic field during construction.
 - *If plumbing is not sufficient a pump tank will be required to septic field.

INITIAL & REPAIR: 3X115'X3' Accepted Status Gravity Parallel

Adams
Soil Consulting
919-414-6761
Job #479



SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: DR Horton APPLICATION DATE:

ADDRESS: 129 Hawksmoore Ln, Lillington DATE EVALUATED: 7-20-23
PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 480gpd PROPERTY SIZE: ~934 acres

LOCATION OF SITE: : 129 Hawksmoore Ln, Lillington

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring TYPE OF WASTEWATER: Sewage

	LUATION METHOD: Auger borning 11FE OF WASTEWATER: Sewage								
P R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)		ORPHOLOGY .1941)					
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	Linear Slope/3%	0-12	GR/SL	FR/SEXP/NS	34"	N/A	N/A	N/A	PS/0.35
		12-36	SBK/SCL	FI/SEXP/SS					
	Linear Slope/3%	0-21	GR/SL	FR/SEXP/NS	35	N/A	N/A	N/A	PS/0.35
		21-36	SBK/SCL	FI/SEXP/SS					
	Linear Slope/3%	0-20	GR/SL	FR/SEXP/NS	N/A	N/A	N/A	N/A	PS/0.35
		20-36		FI/SEXP/SS					
			2212 2 2 2						
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):				
Available Space (.1945)	>5,000 ft ²	>5,000 ft ²	SITE CLASSIFICATION (.1948): PS				
System Type(s)	Type III (g) Type III (g)		EVALUATED BY:A. Adams OTHER(S) PRESENT:				
Site LTAR	0.35	0.35					

COMMENTS:



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 4/7/2023

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.

the terms and conditions of the policy, certificate holder in lieu of such endors		. , .	rseme	nt. A stateme	ent on this ce	rtificate does no	ot confer r	ights to the		
PRODUCER			CONTAC NAME:	T Angela :	Sensenig					
Wade Associates, LLC	PHONE (252) 621 5260 FAX (252) 642									
250 Pollock St.				(A/C, No, Ext): (252)651-5269 (A/C, No): (252)649-2443 E-MAIL ADDRESS: asensenig@wadeict.com						
			ADDRES					NAIC #		
New Bern NC 28	560		INSURER(S) AFFORDING COVERAGE INSURER A: Markel Insurance Company					38970		
INSURED		INSURER A: MATRET THIS GRANGE COMPANY 369 INSURER B:								
Alex Adams, DBA: Adams Soil Con	ng	INSURER C:								
1676 Mitchell Rd.	_	INSURER D :								
		INSURER E:								
Angier NC 27	501		INSURER F:							
		TE NUMBER:23-24 Mast								
THIS IS TO CERTIFY THAT THE POLICIES OF INDICATED. NOTWITHSTANDING ANY REQUESTIFICATE MAY BE ISSUED OR MAY PER EXCLUSIONS AND CONDITIONS OF SUCH F	JIREMEN TAIN, TH	NT, TERM OR CONDITION OF AN HE INSURANCE AFFORDED BY T S. LIMITS SHOWN MAY HAVE BEI	Y CONT HE POL	TRACT OR OTH ICIES DESCRI UCED BY PAID	HER DOCUMEN BED HEREIN I	NT WITH RESPEC	T TO WHIC	H THIS		
INSR LTR TYPE OF INSURANCE	INSD W			POLICY EFF (MM/DD/YYYY)	(MM/DD/YYYY)		LIMITS			
COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE DAMAGE TO RENTE		\$		
CLAIMS-MADE OCCUR						PREMISES (Ea occu		\$		
						MED EXP (Any one	person)	\$		
						PERSONAL & ADV I	INJURY :	\$		
GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGA	ATE :	\$		
POLICY PRO- JECT LOC						PRODUCTS - COMP.		\$		
OTHER:						COMBINED SINGLE		\$		
AUTOMOBILE LIABILITY						(Ea accident)	- '	\$		
ANY AUTO ALL OWNED SCHEDULED						BODILY INJURY (Pe	. /	\$		
AUTOS AUTOS NON-OWNED						BODILY INJURY (Pe		\$		
HIRED AUTOS AUTOS						(Per accident)	,	\$ \$		
UMBRELLA LIAB OCCUB										
I I CCCOR						EACH OCCURRENC		\$		
GEATIVIO-IVIADE	1					AGGREGATE		\$		
DED RETENTION \$ WORKERS COMPENSATION						PER STATUTE	OTH- ER	\$		
AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE						E.L. EACH ACCIDEN		Φ.		
OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A					E.L. DISEASE - EA E		\$ \$		
If yes, describe under						E.L. DISEASE - POLI		\$		
DÉSCRIPTION OF OPERATIONS below							CT LIMIT			
A Errors & Omissions		MEO11181		1/31/2023	1/31/2024	General Aggregate		\$1,000,00		
						Each Occurrence		\$1,000,00		
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLE	S (ACORI	D 101, Additional Remarks Schedule, m	ay be atta	cched if more space	ce is required)					
CERTIFICATE HOLDER			CANO	ELLATION						
FOR INFORMATIONAL PURPOSES ONLY XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE						
				N Whitsett/RACHEL N leal W						