County: Harnett
IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11
PIN/Lot Identifier: 0529-89-4154
Issued To: Davidson Homes
Property Location: 36 Single Barrell Ct.
Subdivision: Wellers Knoll Lot #: 12 Block: Section: Section:
LSS Report Provided: Yes V No
If yes, name and license number of LSS: Alex Adams - LSS#1247
New ✓ Repair Expansion System Relocation
Proposed Structure: SFH
Proposed Wastewater System Type: Type III (g) (Initial) Type III (b) (Repair)
Fill System: Yes Vo If yes, specify: New Existing (when adding more than 6 inches of fill to system area please provide a fill plan)
Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.35 Proposed LTAR (Repair): 0.35
Design Wastewater Strength: ✓ domestic
Number of bedrooms: 4 Number of Occupants: 8 Other:
Pump Required: Yes 🗹 No 🔲 May be required based upon final location and elevations of facilities
Artificial Drainage Required: Yes No If yes, please specify details:
Type of Water Supply: Private well Public well Municipal Supply Spring Other:
Drainfield location meets requirements of Rule .1945: Yes 🗸 No 🗌
Drainfield location meets requirements of Rule .1950: Yes 🗸 No 🗌
Permit valid for: Five years [site plan submitted pursuant to GS 130A-334(13a)] No expiration [plat submitted pursuant to GS 130A-334(7a)]
Permit conditions:
Alex Adams
Licensed Soil Scientist Print Name: Alex Adams 5/4/23
Licensed Soil Scientist Signature: Date:
The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).
See attached site sketch

County: Hones

This Section for Local Health Department Use Only Initial submittal received: 5-24-23 Permit Number: G.S. 130A-335(a4) states the following: 'If a local health department fails to act on an application for an improvement permit submitted pursuant to subsection (a3) of the section within 10 business days of receipt of a complete application, the local health department shall issue the improvement permit.' In accordance with G.S. 130A-335(a3) the improvement permit application is: Incomplete (If box is checked, information in this section is required.) The following items are missing: Copies of this were sent to the LSS and the Owner on State Authorized Agent: ___ Denied (See attached report.) Copies of this were sent to the LSS and the Owner on State Authorized Agent: This Improvement Permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner. The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

See attached site sketch

Improvement Permit Expiration Date: 5- 24- 28

County:	Harnett	
,		

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 0529-89-4154
Issued To: Davidson Homes
Property Location: 36 Single Barrell Ct Lillingtion, NC
AOWE/PE Plans/Evaluations Provided: Yes 🗸 No 🗌 If yes, name and license number of AOWE/PE: Alex Adams - AOWE#10021E
Facility Type: SFH
✓ New
Basement? Yes No Basement Fixtures? Yes No
Type of Wastewater System** Type III (g) (Initial) Type III (b) (Repair)
Design Daily Flow: 480 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: 1000 gallons Total Trench/Bed Length: 360 feet Trench/Bed Spacing: 9 feet on center
Drainfield square footage: 1080 Trench/Bed Width: 36 inches LTAR: 0.35 gpd/ft²
Soil Cover: 6 inches Slope Adjusted Maximum Trench/Bed Depth: 26 inches
Aggregate Depth: 6 inches above pipe 6 inches below pipe 12 inches total
Pump Tank Size (if applicable): N/A gallons Requires more than 1 pump? Yes No
Pump Requirements: ft. TDH vs GPM Grease Trap Size (if applicable): gallons
Distribution Method: Serial J 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 V No
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]:
Declaration of Restrictive Covenants: Yes V No
**If applicable:
I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.
Owner/Legal Representative Print Name: Celinda Howell
Owner/Legal Representative Signature: Cellunda Housell Date: 05/04/23
Pre-Construction Conference Required: Yes No 🗸
Conditions:
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: Alex Adams
AOWE/PE Signature: Date: 5/3/23
This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

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

See attached site sketch

County: HarneTI

Initial submittal received: 5-24-23 by MAO Initials SFD 230 5-00 2/ G.S. 130A-335(a6) states the following: 'If a local health department fails to act on an application for a construction authorization submitted pursuant to subsection (a5) of the section within 10 business days of receipt of a complete application, the local health department shall issue the construction authorization.' In accordance with G.S. 130A-335(a5) the construction authorization application is: Incomplete (If box is checked, information in this section is required.) The following items are missing: Copies of this were sent to the AOWE/PE and the Owner on ___ State Authorized Agent: Denied (See attached report.) Copies of this were sent to the AOWE/PE and the Owner on ____ State Authorized Agent: _ State Authorized Agent: Mol REW This Construction Authorization is issued pursuant to G.S. 130A-335(a2), (a5), and (a6) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner. Final landscaping shall be constructed to divert water and establish vegetative cover. The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337. Construction Authorization Expiration Date: 5-24-28

This Section for Local Health Department Use Only

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

alexadams@bcsoil.com

May 4, 2023 Project #1623

"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: 36 Single Barrell Ct. NC (Harnett County) for Davidson 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

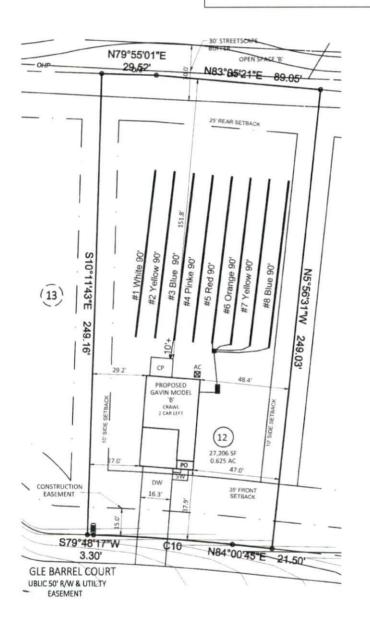
NC Licensed Soil Scientist #1247 AOWE Certification: 10021E





Wellers Knoll - Lot #12 4-Bedroom - Septic Design 36 Single Barrell Court - Lillingtion, NC Davidson Homes Harnett County PIN: 0529-89-4154

*Not a Survey Sketched from a plot plan supplied by owner



System: Gravity to D-Box Lines: 5-8 (360') 0.35 LTAR 26" Max Trench Bottom Accepted Status System Repair: Pressure Manifold Lines: 1-4 (360')

0.35 LTAR 26" Max Trench Bottom Accepted Status System

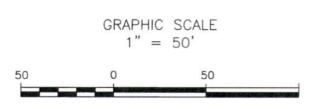
**1000 Gallon Septic and Pump Tank
Tank and trenches to be located minimum of 10'
from any property line and minimum of 5'
from any building foundation.

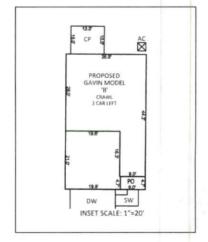
*Do Not Cut, Fill, or Alter Drainfield or Repair Area

*Comply with all setbacks

*Contact local health dept. and/or Alex Adams prior to or during installation with any questions or concerns.

Adams Soil Consulting 919-414-6761 Job #1623

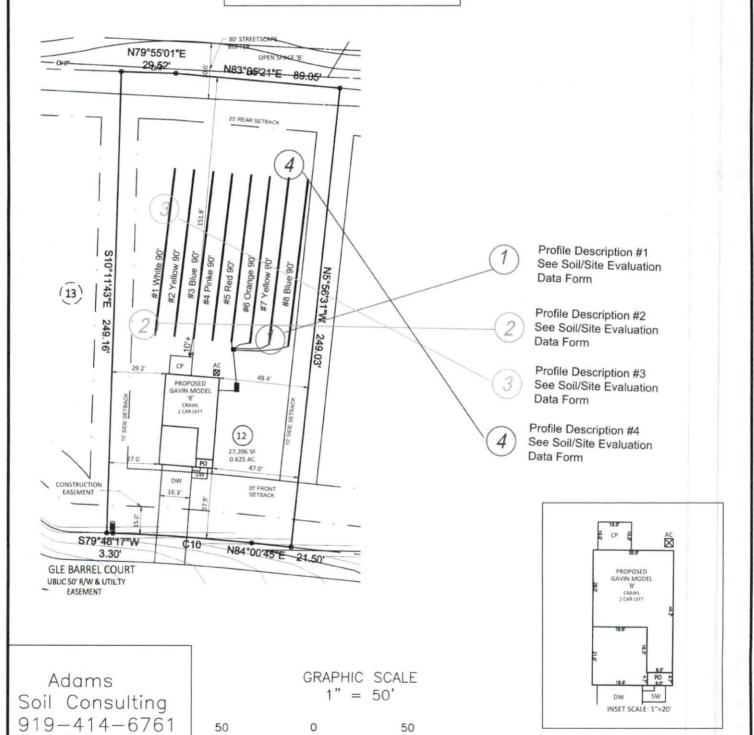




Wellers Knoll - Lot #12 Soil Boring Location Map 36 Single Barrell Court - Lillingtion, NC Davidson Homes

Harnett County PIN: 0529-89-4154

*Not a Survey Sketched from a plot plan supplied by owner



Job #1623

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Davidson Homes ADDRESS: 36 Single Barrell Ct.

ADDRESS: 36 Single Barrell Ct.

PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 480gpd

APPLICATION DATE: DATE EVALUATED: 5-3-23 PROPERTY SIZE: ~0.64 acres

LOCATION OF SITE: 36 Single Barrell Ct.

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring

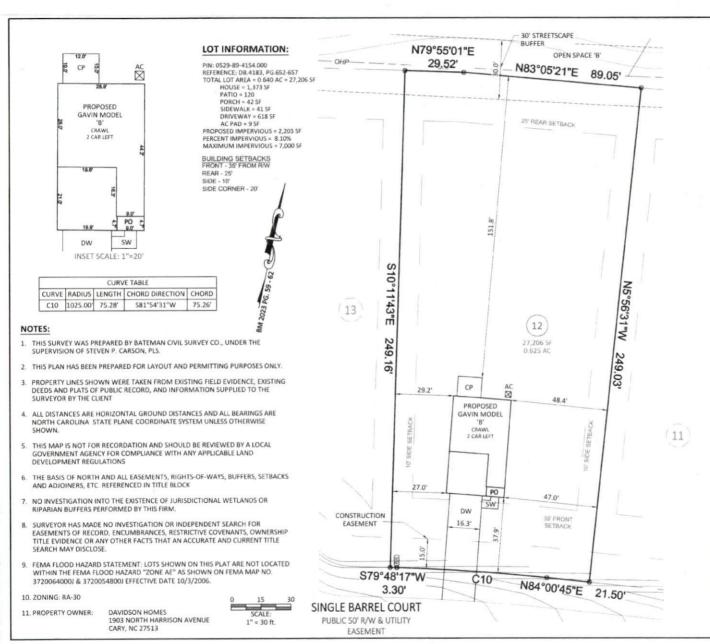
TYPE OF WASTEWATER: Sewage

P R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	Linear	0-24	GR/SL	FR/SEXP/NS	N/A	N/A	N/A	N/A	PS/0.35-0.4
1	Slope/3%	24-40	SBK/SCL	FI/SEXP/SS					
2	Linear Slope/3%	0-21 21-40	GR/SL SBK/CL	FR/SEXP/NS FI/SEXP/SS	N/A	N/A	N/A	N/A	PS/0.35-0.4
\vdash	Linear	0-20	GR/SL	FR/SEXP/NS	38"	N/A	N/A	N/A	PS/0.35-0.4
3	Slope/3%	20-38	SBK/CL	FI/SEXP/SS					
_	Linear	0-20	GR/SL	FR/SEXP/NS	N/A	N/A	N/A	N/A	PS/0.35-0.4
4	Slope/3% 2	20-40	SBK/CL	FI/SEXP/SS		-			
					_				

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 (b)	Type III (b)	EVALUATED BY:A. Adams OTHER(S) PRESENT:
Site LTAR	0.35	0.35	

COMMENTS:







Bateman Civil Survey Company

Engineers • Surveyors • Planners

2524 Reliance Avenue, Apex. NC 27539 Ph; 919 577 1080 Fax: 919.577.1081 NCBELS Firm No. C-2378



LEGEND

PO = PORCH SP = SCREENED PORCH/PATIO CP = COVERED PORCH/PATIO

CP = COVERED PORCH
WD = WOOD DECK
SW = SIDEWALK
DW = CONC DRIVEWAY
P = CONC PATIO
&= COMPUTED POINT

×= MAG NAIL FOUND

•= IRON PIPE FOUND

•= IRON PIPE SET

 DRILL HOLE FOUND
 WATER METER
 CO = CLEAN OUT AC = AIR CONDITIONER

O = SEWER MANHOLE

EB = ELECTRIC BOX O = CABLE BOX ☐ = TELEPHONE PEDESTAL

CB = CATCH BASIN

IC = IRRIGATION CONTROLLER

₩ = LIGHT POLE Co= UTILITY POLE

= FIRE HYDRANT

DI = DRAIN INLET = WATER VALVE = STREET SIGN

= YARD INLET

I, STEVEN P. CARSON, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY DIRECT SUPERVISION FROM A SURVEY MADE UNDER MY SUPERVISION (PLAT BOOK REFERENCED IN TITLE BLOCK I: THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION LISTED UNDER REFERENCES: THAT THE RATIO OF PRECISION AS CALCULATED IS 1 10 000+ AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARD OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA. L-4752



This map is of an existing parcel of land and is only intended for the parties and purposes shown. This map not for recordation. No title report provided.

BUILDER TO VERIFY HOUSE LOCATION DIMENSIONS AND REVIEW TOTAL IMPERVIOUS NOTED ON THIS PLOT PLAN

PRELIMINARY PLOT PLAN FOR

DAVIDSON HOMES

WELLERS KNOLL - LOT 12

36 SINGLE BARREL COURT, LILLINGTON, NC LITTLE RIVER TOWNSHIP, HARNETT COUNTY

DATE: 4/25/23

DRAWN BY: AMG CHECKED BY: SPC

REFERENCE: RM 2023 PG 59-62 BCS# 230051

SCALE 1" = 30"



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.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must 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). Angela Sensenig PHONE (A/C, No. Ext): (252) 631-5269 E-MAIL ADDRESS: asensenig@wadeict.com FAX (A/C, No): (252) 649-2443 Wade Associates, LLC 250 Pollock St. INSURER(S) AFFORDING COVERAGE NAIC # 28560 New Bern NC 38970 INSURER A: Markel Insurance Company INSURED INSURER B Alex Adams, DBA: Adams Soil Consulting INSURER C 1676 Mitchell Rd. INSURER D: INSURER E : 27501 NC Angier INSURER F COVERAGES CERTIFICATE NUMBER: 23-24 Master REVISION NUMBER: 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 ADDL SUBR POLICY EFF (MM/DD/YYYY) POLICY EXP (MM/DD/YYYY) TYPE OF INSURANCE LIMITS POLICY NUMBER LTR INSD WVD COMMERCIAL GENERAL LIABILITY EACH OCCURRENCE \$ CLAIMS-MADE OCCUR S PREMISES (Ea occurrence) MED EXP (Any one person) \$ S PERSONAL & ADV INJURY GEN'L AGGREGATE LIMIT APPLIES PER: GENERAL AGGREGATE PRO-JECT POLICY PRODUCTS - COMP/OP AGG S \$ OTHER: COMBINED SINGLE LIMIT AUTOMOBILE LIABILITY \$ BODILY INJURY (Per person) S ANY AUTO ALL OWNED SCHEDULED BODILY INJURY (Per accident) S AUTOS PROPERTY DAMAGE NON-OWNED S HIRED AUTOS AUTOS (Per accident) S UMBRELLA LIAB EACH OCCURRENCE OCCUR FXCESS LIAB AGGREGATE CLAIMS-MADE s DED RETENTION \$ S WORKERS COMPENSATION STATUTE AND EMPLOYERS' LIABILITY YIN ANY PROPRIETOR/PARTNER/EXECUTIVE E.L. EACH ACCIDENT S NIA OFFICER/MEMBER EXCLUDED? (Mandatory in NH) E.L. DISEASE - EA EMPLOYEE S E.L. DISEASE - POLICY LIMIT DESCRIPTION OF OPERATIONS below \$1,000,000 Errors & Omissions ME011181 1/31/2023 1/31/2024 General Aggregate \$1,000,000 Each Occurrence DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) CANCELLATION CERTIFICATE HOLDER SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN *FOR INFORMATIONAL PURPOSES ONLY* ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

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N Whitsett/RACHEL