## Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761 alexadams@bcsoil.com

April 6, 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: Lot 89 Wellers Knoll (Blanton Ct.) Subdivision 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 Johnston 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





IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11

County: \_\_\_\_\_

PIN/Lot Identifier:			
Issued To:			
Property Location:			
Subdivision:	Lot #:	Block:	Section:
LSS Report Provided: Yes 📃 No 🗌			
If yes, name and license number of LSS:			
New Repair Expansion S	ystem Relocation 🗌		
Proposed Structure:			
Proposed Wastewater System Type:	(Initial)		(Repair)
Fill System: Yes No If yes, specify: New Existing	g (when adding more th	nan 6 inches of fill to systen	n area please provide a fill plan)
Proposed Design Daily Flow: GPD Prop	osed LTAR (Initial):	Proposed LTAR (	Repair):
Design Wastewater Strength: 🗌 domestic	igh strength	industrial process	
Number of bedrooms: Number of Occupants: O	Other:		
Pump Required: Yes No May be required bas	sed upon final location a	nd elevations of facilities	
Artificial Drainage Required: Yes No If yes, please speci	ify details:		
Type of Water Supply: Private well Public well Mu	unicipal Supply 🗌 Spr	ing 🔲 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 be addressed on the submitted pursuant to be addres	GS 130A-334(13a)]	No expiration [plat submitt	ed pursuant to GS 130A-334(7a)]
Permit conditions:			
Licensed Soil Scientist Print Name:			
Licensed Soil Scientist Signature: XLex Adams		Date: _	
The LSS evaluation is being submitted pu	rsuant to and meets th	e requirements of G.S. 130	A-335(a2).
*Se	e attached site sketch*		

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This Section for Local Health Department Use Only

Initial	submittal received:	Date	by Initials	
Permit	Number:			
G.S. 130A-335(a4) states the following: 'IJ submitted pursuant to subsection (a3) of t department shall issue the improvement p	he section within 10 b	•		
In accordance with G.S. 130A-335(a3) the	improvement permit	application is:		
Incomplete (If box is checked, informa	ation in this section is	required.)		
The following items are missing:				
				<u>.</u>

Copies of this were sent to the LSS and the Owner on		_	
	Date		
State Authorized Agent:		Date:	
Denied (See attached report.)			
Copies of this were sent to the LSS and the Owner on		_	
	Date		
State Authorized Agent:		Date:	
Complete			
Complete			
State Authorized Agent:		Date of Issuance:	

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).

Improvement Permit Expiration Date: \_\_\_\_\_

\*See attached site sketch\*

County: \_\_\_\_\_

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

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						
Basement?  Yes No Basement Fixtures? Yes No						
Type of Wastewater System** (Initial) (Repair)						
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? 🗌 Yes 🗌 No						
Installation Requirements/Conditions						
Septic Tank Size: gallons Total Trench/Bed Length: feet Trench/Bed Spacing: feet on center						
Drainfield square footage: Trench/Bed Width: inches LTAR: gpd/ft <sup>2</sup>						
Soil Cover: inches Slope Adjusted Maximum Trench/Bed Depth: inches						
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						
**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:						
Owner/Legal Representative Signature:						
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: Alex Adama Date:						
This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).						
*See attached site sketch*						

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This Section for Local Health Department Use Only

Initial submittal received:		by
	Date	Initials
Permit Number:		

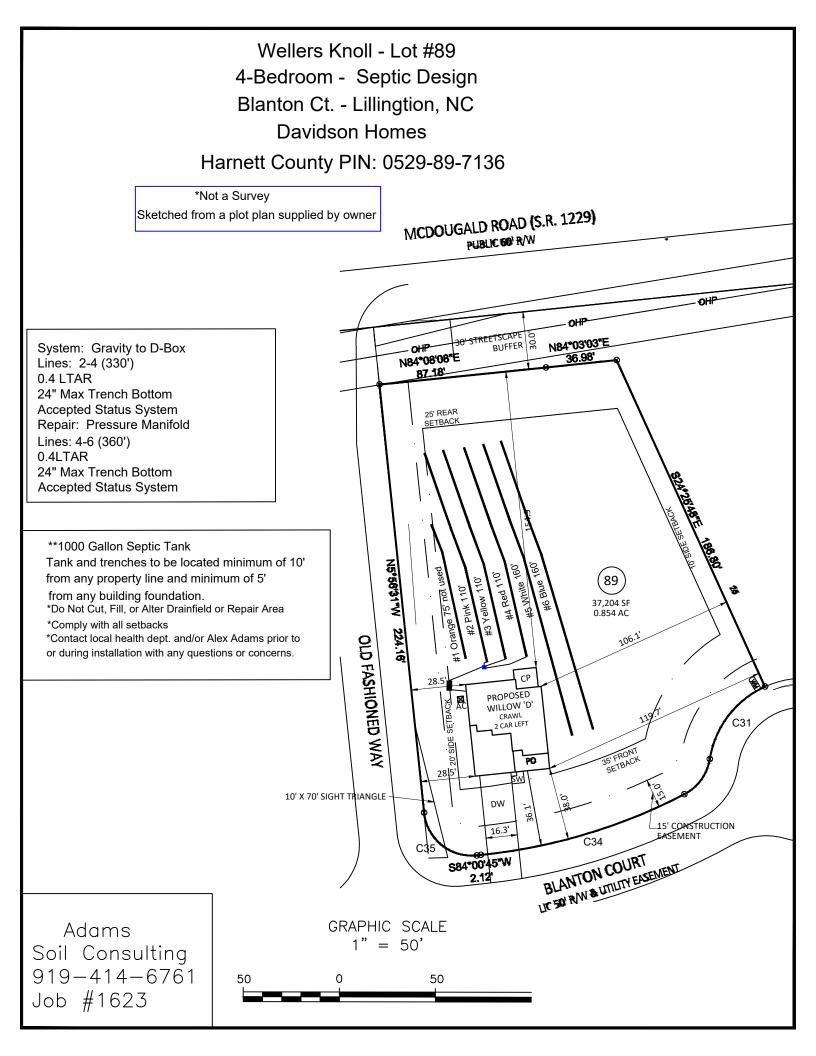
G.S. 130A-335(a6) states the following: 'If a local health department fails to act on an application for a construction authorization submitted pursuant to subsection (a5) of the section within 10 business days of receipt of a complete application, the local health department shall issue the construction 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 \_\_\_\_\_ Date State Authorized Agent: \_\_\_\_\_ Date: \_\_\_\_\_ Denied (See attached report.) Copies of this were sent to the AOWE/PE and the Owner on \_\_\_\_\_ Date State Authorized Agent: \_\_\_\_\_ Date: \_\_\_\_\_ Complete Date of Issuance: \_\_\_\_ State Authorized Agent: \_\_\_\_ 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

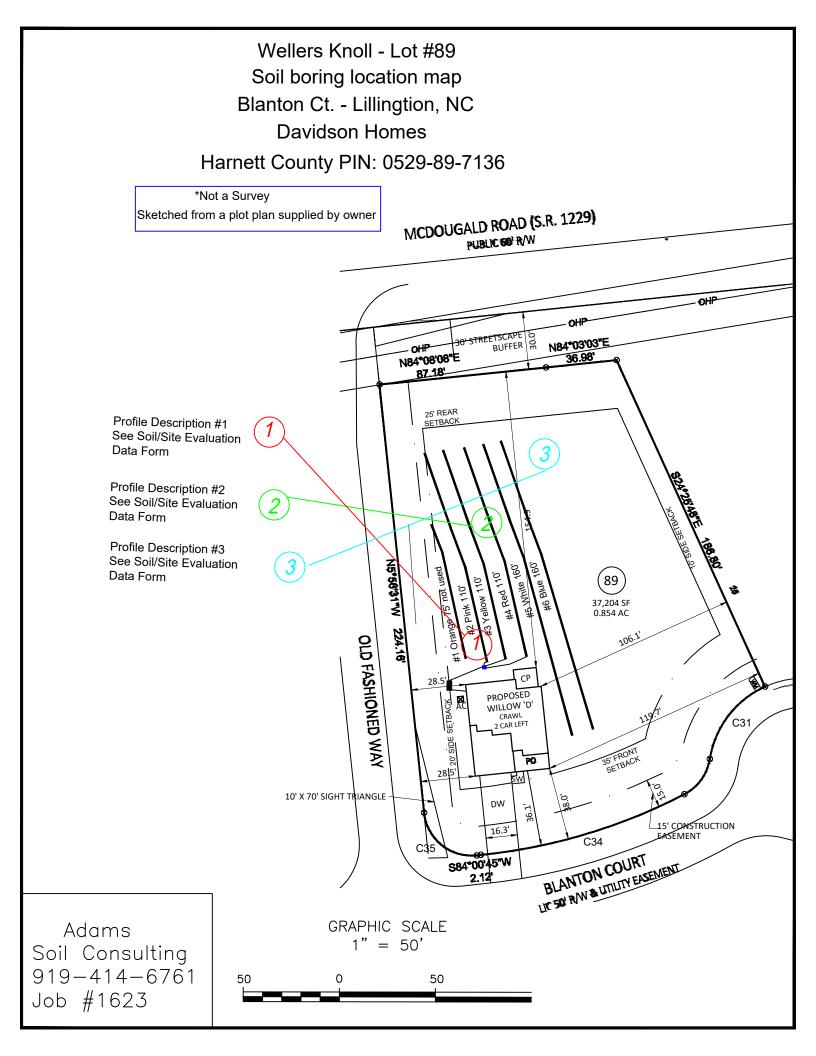
provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner. Final landscaping shall be constructed to divert 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: \_\_\_\_\_

\*See attached site sketch\*





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

**OWNER:** Davidson Homes ADDRESS: unassigned Blanton Ct – Lot 89 Wellers Knoll PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 360gpd LOCATION OF SITE: Blanton Ct - Lillington, NC WATER SUPPLY: Public Water EVALUATION METHOD: TYPE OF WASTEWATER: Auger Boring Sewage

APPLICATION DATE: DATE EVALUATED: 4-5-23 PROPERTY SIZE: ~.854 acres

P R O F I L	R O F I L L ANDSCAPE HORIZON		SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
E #	E POSITION/ D	DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
		0-14	GR/SL	FR/SEXP/NS	38"	N/A	N/A	N/A	PS/0.4
	Slope/3%	14-38	SBK/SCL	FI/SEXP/SS	-				
1									
	Linear	0-16	GR/SL	FR/SEXP/NS	N/A	N/A	N/A	N/A	PS/0.4
	Slope/3%	16-40	SBK/SCL	FI/SEXP/SS					
2									
	Linear	0-31	GR/SL	FR/SEXP/NS	N/A	N/A	N/A	N/A	PS/0.4
	Slope/3%	31-40		FI/SEXP/SS	1 1/ 1 1	1 1/ 2 1	1 4/ 2 1	1 1/2 1	1 0/0.1
3		51 10	SDIN SCL						
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			1					1	

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):			
Available Space (.1945)	>5,000 ft <sup>2</sup>	>5,000 ft <sup>2</sup>	SITE CLASSIFICATION (.1948): PS			
System Type(s)	Type III (b)	Type III (b)	EVALUATED BY:A. Adams OTHER(S) PRESENT:			
Site LTAR	0.4	0.4				
COMMENTS:						

Updated February 2014

