Permit #:	



Licensed Soil Scientist Signature: \_\_\_\_

**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 Author	ization Fee \$	
	IMPROVEMEN	NT PERMIT FOR G.S. 13	80A-335(a2)	
County:		_		
PIN/Lot Identifier:				
Issued To:				
Property Location:				
Subdivision (if applicable)		Lot #:	Block:	Section:
LSS Report Provided: Yes 🔲 N	lo 🗌			
If yes, name and license number of	of LSS:			
New 🗌	Expansion	System Relocation	Change of	Use 🗌
Proposed Structure:				
Number of bedrooms: N	umber of Occupants:	Other:		
Design Wastewater Strength:	domestic	high strength	industrial process	
Proposed Design Daily Flow:	GPD P	roposed LTAR (Initial):	Proposed LTAR (Repa	nir):
Proposed Wastewater System Typ	oe*:	(Initial)	Pump Required: 🗌 Yes 📗	No May be required
Proposed Wastewater System Typ	oe*:	(Repair)   F	Pump Required: Yes	No May be required
*Please include system classificati	ion for proposed wastewate	er system types in accordance	with 15A NCAC 18A .1961 Ta	ble V(a)
Saprolite System (initial): Yes	No Saprolite Sy	vstem (repair): Yes No		
Fill System (Initial): Yes N	o If yes, specify: New	Existing (when adding mo	ore than 6 inches of fill to sys	tem area provide a fill plan)
Fill System (repair): 🗌 Yes 🔲 N	o If yes, specify: New	Existing (when adding me	ore than 6 inches of fill to sys	tem area provide a fill plan)
Usable Soil Depth (Initial):	Usable Soil	Depth (Repair):		
Max. Trench Depth (Initial) <sup>‡</sup> :	Max. Trenc	h Depth (Repair)‡:	<sup>‡</sup> Measured on the a	lownhill side of the trench
Artificial Drainage Required: \(\sime\)				
Type of Water Supply:  Private	well Public well	Shared well  Municipal	Supply Spring C	Other:
Drainfield location meets require	ments of Rule .1945: Yes	No Drainfield location	on meets requirements of Ru	le .1950: Yes No No
Permit valid for: Tive years [sit	e plan submitted pursuant	to GS 130A-334(13a)] No	expiration [plat submitted p	ursuant to GS 130A-334(7a)
Permit conditions:				
Licensed Soil Scientist Print Name	,			
Licensed 3011 Scientist Fillt Name	•			

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

\_ Date: \_\_

\*See attached site sketch\*

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



Permit #:
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## This Section for Local Health Department Use Only

	Initial submittal received:		by	
		Date	Initials	
G.S. 130A-335(a3) states the follow	ving:			
When an applicant for an Improvement Pedepartment, the common form developed within five business days of receiving the appearant includes all of the required component department to cure the deficiencies in the list 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 evaluation plication, conduct a completeness revents. If the local health department de some seed to complete the Improvement may over the local health of the local health department receives the local health department the failur	on pursuant to su view of the submin termines that the nt Permit. The app department shall he additional info	bsection (a2) of this section, tal. A determination of com Improvement Permit is inco Vicant may submit additiona make a final determination o rmation from the applicant.	the local health department shall, oleteness means that the Improvemen mplete, the local health department il information to the local health as to whether the Improvement Permit fithe local health department fails to
The review for completeness of th Permit is determined to be:	is Improvement Permit was co	nducted in ac	cordance with G.S. 130	A-335(a3). This Improvement
☐ Incomplete (If box is checked,	information in this section is r	equired.)		
The following items are missing:	5/6		198	N.
Copies of this were sent to the LSS		VZ 2	433	
		Date		
State Authorized Agent:	1 1 2 1 2		Dat	e:
☐ Complete	1 95//8			2 1/2
State Authorized Agent:		-11/-30	Dat	e:
This Improvement Permit is issue attached here. The issuance of the permit holder is responsible for coto revocation if the site plan, plat ownership of the site. This permit Disposal and to the conditions of The Department, the Department any liabilities, duties, and responsevaluations, submittals, or action	his permit by the Health Depar hecking with appropriate gove , or the intended use changes t is subject to compliance with this permit. I's authorized agents, and the sibilities imposed by statute o	ertment in no verning bodies The Improventhe provision  local health derin common le	vay guarantees the issi in meeting their requi ement Permit shall not ns of the Laws and Rul epartments shall be di aw from any claim aris	uance of other permits. The rements. This permit is subject be affected by a change in es for Sewage Treatment and ischarged and released from sing out of or attributed to
Improvement Permit Expiration C	Pate:			

\*See attached site sketch\*



Permit #:	
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## **Re-submittal of Improvement Permit**

							$\neg$
	LHD USE ONLY:	This IP resubmittal rece	eived:	Date	by	Initials	
The following it	tems are being resub	omitted pursuant to G.S. 1	130A-335(a3) f	for issuance o	f the Improv	vement Permit:	
				THE STATE OF THE S			
		THE	SIAI	Eor	A Pr		
is accurate and		hereby a her					n this re-submittal cable federal,
Signature	e of Licensed Soil Scientis	st			Date		
	The section below	w is for Local Health Depart	tment use after s	submittal of it	ems noted as	missing above.	
LHD Follow-u	p Completenes	s Review of Improve	ment Permi				
	completeness of this ermit is determined	s Improvement Permit re I to be:	e-submittal was	conducted i	n accordanc	e with G.S. 130	A-335(a3). This
☐ Incomplete	(If box is checked, i	nformation in this sectio	n is required.)				
The following ite	ems are missing:						
Copies of this w	ere sent to the LSS	and the Applicant on	Date	<del></del>			
State Authorized	d Agent:				D	ate:	
☐ Complete							
State Authorized	d Agent:				D	ate:	



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?
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 <sup>2</sup>
Soil Cover: inches Slope Corrected Maximum Trench/Bed Depth <sup>‡</sup> : inches <sup>‡</sup> 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 I 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:
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 #:
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## This Section for Local Health Department Use Only

	Initial submittal received:		у
		Date	Initials
G.S. 130A-335(a5) states the foll	_		
mprovement Permit and Construction A Department, and any necessary signed a singineer or a person certified pursuant to department shall, within five business do the Construction Authorization or Improved the English of the Components needed to conditional information to the local health Authorization. The local health department fails to act within five busing ply for the building permit for the project of the english of the building permit for the project of the englished engineer submitting the evaluation or Improvement Permit and engineer, the local health department shall he partment, the local health department, the local health department and the engineer, the local health department shall health shall heal	uthorization application together, the pe nd sealed plans or evaluations conducted of Article 5 of Chapter 90A of the General lys of receiving the application, conduct of vement Permit and Construction Authorization ization or Improvement Permit and Construction Authorization of department to cure the deficiencies in the ent shall make a final determination as to iness days after the local health department lest out in this subsection, the applicant ect upon the decision of completeness of ment or if the local health department fail ion pursuant to this subsection may requivable of the course. It	rmit fee charged by the lot by a person licensed pur Statutes as an Authorized a completeness review of a truction Authorization is it or Improvement Permit as the Construction Authorization are treceives the additional may treat the failure to a fail to act within five busing lest that the local health of Joon written request of the uthorization or Improvem	ation together, submits a Construction Authorization, or an an acal 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 nocomplete, the local health department shall notify the not Construction Authorization. The applicant may submit action or Improvement Permit and Construction and Information from the applicant. If the local health act as a determination of completeness. The applicant may reaction or Improvement Permit and Construction al information from the applicant. If the local health act as a determination of completeness. The applicant may reaction or Improvement Permit and Construction ress days. The Authorized On-Site Wastewater Evaluator or department revoke or suspend the Construction net Authorized On-Site Wastewater Evaluator or licensed then Permit and Construction Authorization pursuant to G.S.
The review for completeness of	this Construction Authorization v	was conducted in acc	cordance with G.S. 130A-335(a5). This
Construction Authorization is de	termined to be:		
☐ Incomplete (If box is checke	d, information in this section is r	equired.)	
The following items are missing:			
Copies of this were sent to the A	OWE/PE and the Applicant on _	Date	4V 76 //
State Authorized Agent:			Date:
Complete	In leaves	- Tel 65	
State Authorized Agent:	W ZPRIL	12 1776	Date of Issuance:
attached here. This Construction Construction Authorization shall to compliance with the provision The Department, the Department in liabilities, duties, and respondans, evaluations, preconstructive General Statutes as a license Authorized On-Site Wastewater agents, and the local health department in the statement in the statem	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 of tion conference findings, submit ed engineer or a person certified Evaluator in GS 130A-335(a2),	ocation if the site pl ownership of the si wage Treatment and local health departn r in common law fro ctals, or actions from d pursuant to Article (a5), and (a7). The D nd bear liability for	ing the signed and sealed plans or evaluations an, plat, or the intended use changes. The te. This Construction Authorization is subject I Disposal and to the conditions of this permit.  Inents shall be discharged and released from any claim arising out of or attributed to a 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 Exp	ration Date:		
·		_	

\*See attached site sketch\*



Permit #:
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#### **Re-submittal of Construction Authorization**

	THD LICE ONLY:	This CA resultmittal resolved:		by	
	LHD 03E ONLY.	This CA resubmittal received:	Date	by	
The following in	tems are being resub	mitted pursuant to G.S. 130A-33	55(a5) for issuance of	of the Construction Authoriz	zation:
		ST	ATE	<i>y</i>	
l,			at the information re	equired to be included with	this re-submittal
is accurate and		or (Print Name) t of my knowledge and that the lations, rules, and ordinances.	proposed Construct	tion Authorization meets al	l applicable
Signatur	e of Authorized On-Site V			Date	
		v is for Local Health Department use		ems noted as missing above.	
LHD Follow-ւ	up Completeness	Review of Construction A	uthorization		
	completeness of this on Authorization is d	Construction Authorization re-s etermined to be:	submittal was condu	icted in accordance with G.	S. 130A-335(a5).
☐ Incomplete (	If box is checked, in	formation in this section is requi	red.)		
The following it	ems are missing:				
		TASSE OLIAL	M VIDERLY	. //	
Copies of this w	rere sent to the AOV	/E/PE and the Applicant on	Date		
State Authorize	d Agent:			Date:	<del></del>
☐ Complete					
State Authorize	d Agent:			Date:	

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

alexadams@bcsoil.com

July 10th, 2025

"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)"

RE: Cultivator Ct. Angier NC 27501 (Harnett County) Tobacco Rd. Lot 97. Davidson Homes PIN # 0693-26-0470

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, State Subsurface Rules, 15ANCAC 18E. 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.

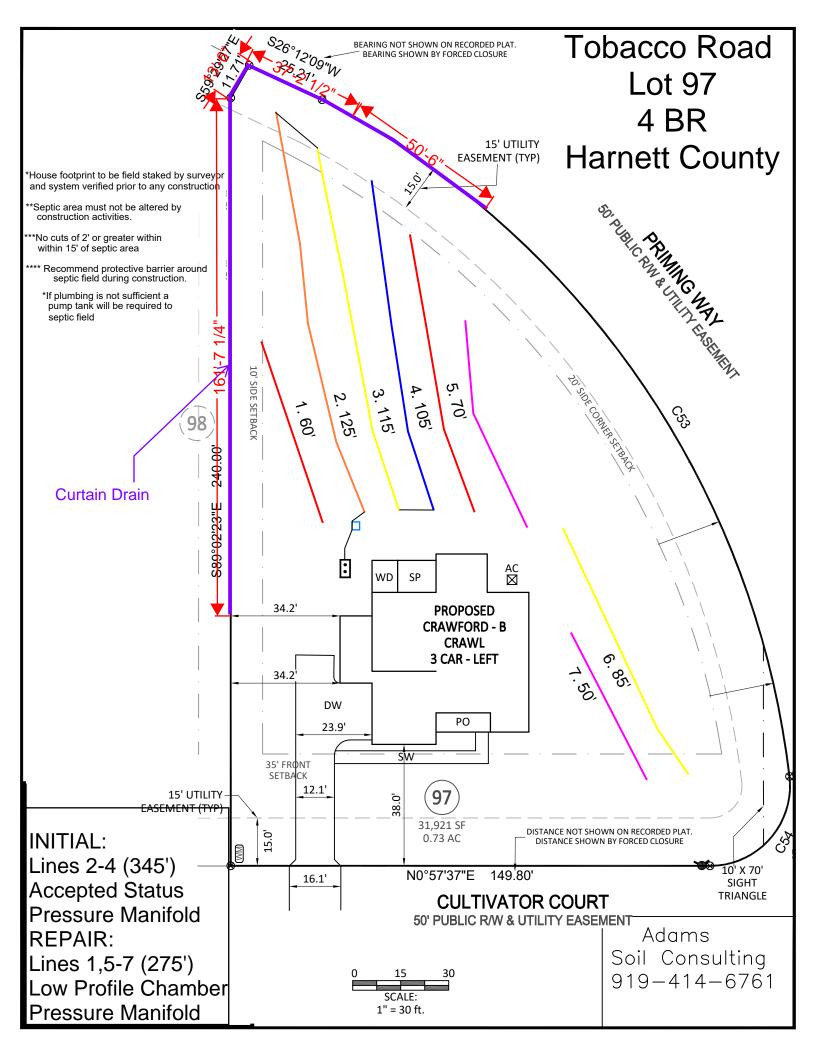
Sincerely,

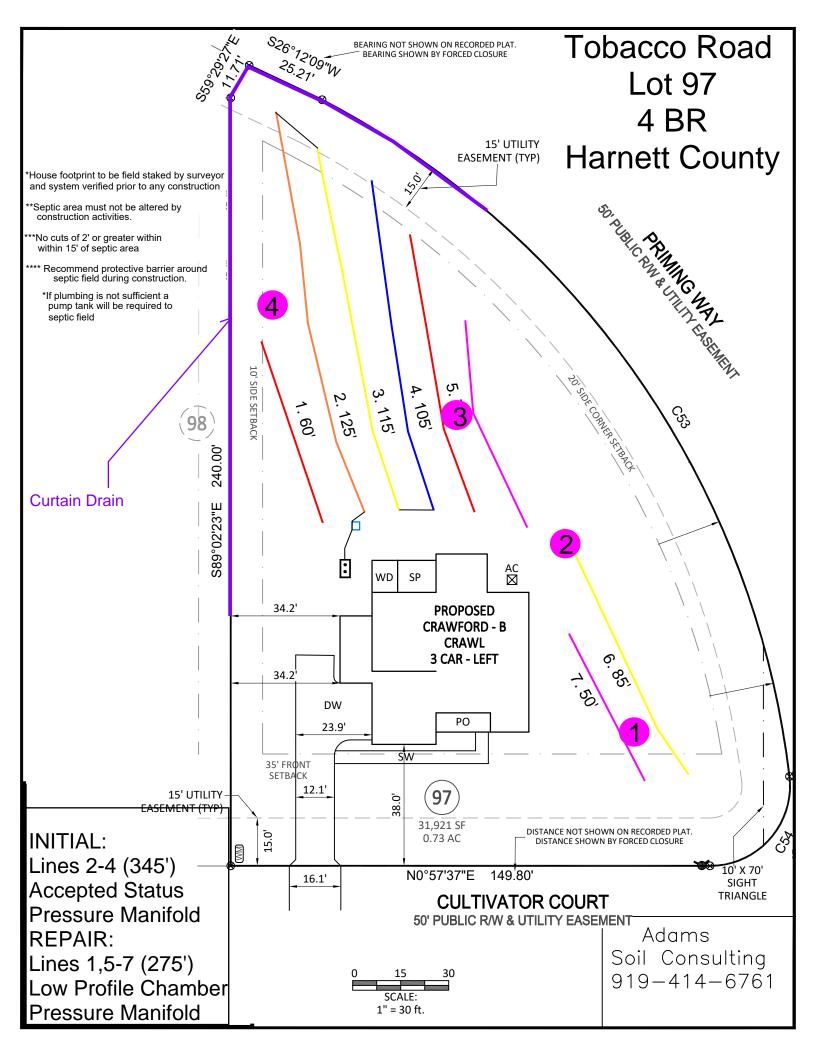
Alex Adams

NC Licensed Soil Scientist #1247 AOWE Certification: 10021E









Page <u>1</u> of <u>1</u> PROPERTY ID #: 0693-26-0470 COUNTY: Harnett

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

OWNER: _	Davidson H	lomes	(Comple	te all fields in full)		DATE EVALUATEI	D: 7/2/2025	
ADDRESS:	·							
PROPOSEI	FACILITY:	Single Family 4 BR	PROPOSED DESI	GN FLOW (.0400):	480 gpd	PROPERTY SIZE:	.73 Acres	
LOCATION	N OF SITE: C	ultivator Ct. Angier NC	27501			PROPERTY RECORDI	ED: Y	
WATER SU	JPPLY: 🗵 Pul	olic Single Family V	Well   Shared Wel	l Spring Othe	er	WATER SUPPLY SETI	BACK:	
EVALUAT	ION METHOL	D: 🗵 Auger Boring	☐ Pit ☐ Cut	TYPE OF WASTE	WATER:	☐ Domestic ☐ High Stren	gth 🗆 IPWW	

P R O F I			SOIL MORPHOLOGY		OTHER PROFILE FACTORS					
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
	Linear 6%	0-22	GR/SL	VFR,SEXP,NS		36"	N.O	N.O	P.S .4	3"
		22-36	SBK SCL	FR,SEXP,S	7.5.70					
1					7.5yr 7/2 @ 36"					
$\begin{vmatrix} 2 \end{vmatrix}$	Linear 6%	0-36	GR/SL	VFR,SEXP,NS		36"	N.O	N.O	P.S .6	
										3"
					N.O					
			0 = /0:							
3	Linear 6%	0-36	GR/SL	VFR,SEXP,NS		36"	N.O	N.O	P.S .6	
					N.O					3"
		0.40								
4	Linear 4%	0-12	GR/SL	VFR,SEXP,NS		36"	N.O	N.O	U/P.S .35	2"
		12-32	SBK SCL	FR,SEXP,S	7.5yr 7/2					
					@ 32"					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	
Available Space (.0508)	S	S	SITE CLASSIFICATION (.0509): U/P.S
System Type(s)	III G	III B	EVALUATED BY: Bobby Weaver/Alex Adams
Site LTAR	.35	.35	OTHER(S) PRESENT:
Maximum Trench Depth	18"	14"	
Comments:			

NCDHHS/DPH/EHS/OSWP Revised January 2024

