Permit/File #:	



**ROY COOPER • Governor** 

KODY H. KINSLEY • Secretary

MARK BENTON • Chief Deputy Secretary for Health

**SUSAN KANSAGRA •** Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Pern	nit (a2) Construc	ction Authorizati	on Fee \$	
	IMPROV	'EMENT PERMIT FO	OR G.S. 130A	-335(a2)	
County:					
PIN/Lot Identifier:					
Issued To:					
Property Location:					
Subdivision (if applicat	ole)		Lot #:	Block:	Section:
LSS Report Provided: \	res 🔲 No 🗌				
If yes, name and licens	e number of LSS:				
New 🗌	Expansion [	System F	Relocation	Change of Use	e 🗌
Facility Type:					
Number of bedrooms:	Number of Occupant	s: Other:			
Design Wastewater Sti	rength: Domestic	High Strength	☐ Ind	dustrial Process Wastewate	r
Proposed Design Daily	Flow: GPD	Proposed LTAR (Ini	tial):	Proposed LTAR (Repair)	:
Proposed Wastewater	System Type*:		(Initial) Pum	p Required: 🗌 Yes 🔲 No	May be required
Proposed Wastewater	System Type*:		(Repair) Pum	p Required: 🗌 Yes 🔲 No	May be required
*Please include system	classification for proposed wo	astewater system types in	accordance with	Rule .1301 Table XXXII	
Effluent Standard:	DSE HSE NSF/AN	SI 40 TS-I TS-I	I RCW		
Saprolite System (Initia	al): 🗌 Yes 🔲 No Sap	rolite System (Repair):	Yes No		
Fill System (Initial): 🗌	Yes No If yes, specify:	New Existing (whe	en adding more t	han 6 inches of fill to syster	n area provide a fill plan)
Fill System (Repair):	Yes No If yes, specify:	New Existing (wh	en adding more	than 6 inches of fill to syste	m area provide a fill plar
Usable Depth to LC (In	itial) <sup>x</sup> :	Usable Depth to LC	C(Repair)x:	x Limiting Co	ondition
Max. Trench Depth (In	itial)‡: Ma	x. Trench Depth (Repair)‡	:	<sup>‡</sup> Measured on the dow	unhill side of the trench
Artificial Drainage Req	uired: Yes No If yes,	please specify details:			
Type of Water Supply:	Private well Public w	vell Shared well	Municipal Sup	ply Spring Oth	er:
Drainfield location me	ets requirements of Rule .0508	8: Yes 🔲 No 🔲 Drai	nfield location m	eets requirements of Rule .	0601: Yes
Permit valid for: 🗌 Fiv	ve years [site plan submitted p	ursuant to GS 130A-334(1	l3a)] 🔲 No exp	iration [plat submitted purs	suant to GS 130A-334(7a
Permit conditions:					
Licensed Soil Scientist					
Licensed Soil Scientist	Signature: XLLX 🗡	taamo		Date:	

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



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

initiai submittai received:		Dy	
	Date	Initials	
G.S. 130A-335(a3) states the following:			
When an applicant for an Improvement Permit submits to a local health depart department, the common form developed by the Department, and a soil evalu within five business days of receiving the application, conduct a completeness Permit includes all of the required components. If the local health department shall notify the applicant of the components needed to complete the Improven department to cure the deficiencies in the Improvement Permit. The local heal is complete within five business days after the local health department receive act within any period set out in this subsection, the applicant may treat the fair common form for use as the Improvement Permit.	ation pursuant to su review of the submit determines that the ment Permit. The app th department shall i es the additional infor	osection (a2) of this section, the local health departital. A determination of completeness means that the Improvement Permit is incomplete, the local health licant may submit additional information to the local make a final determination as to whether the Impromation from the applicant. If the local health depar	ment shall, e Improvement department al health vement Permit tment fails to
The review for completeness of this Improvement Permit was Permit is determined to be:	conducted in acc	cordance with G.S. 130A-335(a3). This Im	provement
☐ Incomplete (If box is checked, information in this section i	s required.)		
The following items are missing:			
	ļ <u> </u>		
Copies of this were sent to the LSS and the Applicant on	Date		
State Authorized Agent:		Date:	
☐ Complete			
State Authorized Agent:	-1/55	Date:	
This Improvement Permit is issued pursuant to G.S. 130A-335 attached here. The issuance of this permit in no way guarant for checking with appropriate governing bodies in meeting th plat, or the intended use changes. The Improvement Permit permit is subject to compliance with the provisions of 15A NOT The Department, the Department's authorized agents, and the any liabilities, duties, and responsibilities imposed by statute evaluations, submittals, or actions from a licensed soil scient	tees the issuance neir requirement shall not be affe CAC 18E and to t ne local health d or in common l	e of other permits. The permit holder is rest. This permit is subject to revocation if the cted by a change in ownership of the sitch he conditions of this permit.  Experiments shall be discharged and release from any claim arising out of or attribute.	esponsible the site plan, e. This
Improvement Permit Expiration Date:			

\*See attached site sketch\*



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

	LHD USE ONLY: This IP resubmittal received:		by	
		Date	Initials	
The following i	items are being resubmitted pursuant to G.S. 130A-335(	(a3) for issuance o	f the Improvement Permit	:
	THE STA	TF O	D	
	Ø v 20			
l,	hereby attest that t	the information re	equired to be included wit	h this re-submittal
is accurate and	Scientist (Print Name) complete to the best of my knowledge and that the professional laws, regulations, rules, and ordinances.	oposed Improven	nent Permit meets all appl	icable federal,
Signatui	re of Licensed Soil Scientist		Date	
	The section below is for Local Health Department use a	fter submittal of ite	ems noted as missing above.	
LHD Follow-	up Completeness Review of Improvement Pe	rmit		
	completeness of this Improvement Permit re-submittal Permit is determined to be:	was conducted in	n accordance with G.S. 130	OA-335(a3). This
☐ Incomplete	e (If box is checked, information in this section is require	ed.)		
The following it	tems are missing:			
Copies of this w	vere sent to the LSS and the Applicant on			
State Authorize	ed Agent:		Date:	
☐ Complete				
State Authorize	ed Agent:		Date:	



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

County:			Pre-Construction Conference Required:	Yes No No
PIN/Lot Identifier	:			
Issued To:				
Property Location	າ:			
AOWE/PE Plans/E	Evaluations Provide	d: Yes 🔲 No 🔲	If yes, name and license number of AOWE/PE:	
Facility Type:				
Number of bedro	oms: Num	ber of Occupants:	Other:	
New	Expansion	Repair	System Relocation Change of Use	
Basement?	Yes	☐ No	Basement Fixtures?	
Crawl Space?	Yes	☐ No	Slab Foundation? Yes No	
Type of Wastewa	iter System*		(Initial)	(Repair)
*Please include sy	ystem classification	for proposed wast	ewater system types in accordance with Rule .1301 Ta	ble XXXII
Design Daily Flow	r:	_GPD Wa	stewater Strength: Domestic High Streng	th Industrial Process WW
	1-120 Section 53, En ovide engineering do		Itilizing Low-flow Fixtures and Low-flow Technologies?	Yes No
Effluent Standard	l: DSE H	SE NSF/ANSI	40 🔲 TS-I 🔲 TS-II 🔲 RCW	
Type of Water Su	pply: Private we	ll Public well	Shared well Municipal Supply Sprir	ng Other:
Installation Requ	irements/Condition	n <u>s</u>		
Septic Tank Size:	gallons	Total Trench/Be	ed Length: feet Trench/Bed Spacing:	_ feet on center
Trench/Bed Widt	h: inches	LTAR:	gpd/ft² Usable Depth to LC (Initial) <sup>x</sup> :	×Limiting condition
Pump Tank Size (i Pump Requireme Distribution Meth	if applicable): ents: ft. TDH nod:	gallons vs GPM D-Box or Parallel	Requires more than 1 pump?  Yes No  Grease Trap Size (if applicable): gallon  Pressure Manifold(s)  PP Other:	ns
Legal Agreement	<u>s</u> (If the answer is "	Yes" to any type of	legal agreements, please attach a copy of the agreem	ent.)
Multi-party Agree	ement Required [.02	:04(g)]:	No Declaration of Restrictive Cov	renants: Yes No
Easement, Right-o	of-Way, or Encroach	nment Agreement	Required [.0301(b)]: Yes No	
Management Ent	ity Required: 🔲 Ye	es No Minim	um O&M Requirements:	
Permit condition	ons:			
with the attached Construction Aut with the provisio AOWE/PE Print N	d site sketch. <u>This (</u> chorization shall not ons of 15A NCAC 18I	Construction Author t be affected by a G E, or 15A NCAC 18	by reference into this permit and shall be met. System orization is subject to revocation if the site plan, plat, change in ownership of the site. This Construction Au 1900, as applicable, and to the conditions of this pe	or the intended use changes. The athorization is subject to compliance
AOWE/PE Signatu	ure:	X Ndamo	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/File #:

## This Section for Local Health Department Use Only

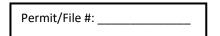
	Initial submittal received:	b	у
		Date	Initials
G.S. 130A-335(a5) states the follow	ving:		
Improvement Permit and Construction Authoperatment, and any necessary signed and sengineer or a person certified pursuant to Audiengineer or a person certified pursuant to Audiengartment shall, within five business days of the Construction Authorization or Improvement of the Construction Authorization and the Construction Authorization and the Construction Authorization and the Iocal health department of the Iocal health department for the building permit for the project Authorization by the Iocal health department ficensed engineer submitting the evaluation Authorization or Improvement Permit and Construction of Improvement Imp	orization application together, the per sealed plans or evaluations conducted rticle 5 of Chapter 90A of the General sof receiving the application, conduct a nent Permit and Construction Authorization or Improvement Permit and Construction or Improvement Permit and Construction to Improvement Permit and Construction or Improvement Permit and Construction at the Construction Authorization of shall make a final determination as to so days after the local health department out in this subsection, the applicant reupon the decision of completeness of into rif the local health department fail pursuant to this subsection may requestions and the construction Authorization for cause. Ususpend or revoke the Construction Authorization for cause.	mit fee charged by the lo low a person licensed pure Statutes as an Authorized completeness review of the ation includes all of the retruction Authorization is in the Construction Authorization whether the Construction and the Construction authorization with the state of the Construction and the construction are the Construction and the construction are the the state of the Construction are the construction and the construction are the construction and the construction authorizals to act within five busineses that the local health of the state o	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 and construction Authorization. The applicant may submit ation or Improvement Permit and Construction and Authorization or Improvement Permit and Construction al information from the applicant. If the local health as a determination of completeness. The applicant may reation or Improvement Permit and Construction as a determination of completeness. The applicant may reation or Improvement Permit and Construction rest days. The Authorized On-Site Wastewater Evaluator or repartment revoke or suspend the Construction are Authorized On-Site Wastewater Evaluator or licensed rent Permit and Construction pursuant to G.S.
The review for completeness of thi	s Construction Authorization w	vas conducted in acc	cordance with G.S. 130A-335(a5). This
Construction Authorization is deter	mined to be:		
☐ Incomplete (If box is checked,	information in this section is re	equired.)	
The following items are missing:		1	
41 04			
Copies of this were sent to the AOV	WE/PE and the Applicant on	17	
		Date	
State Authorized Agent:			Date:
	Contraction of the Contraction o		<del>/ 3 ///</del>
Complete			
State Authorized Agent:	VALUE OF THE STATE		Date of Issuance:
attached here. This Construction A Construction Authorization shall n to compliance with the provisions The Department, the Department' any liabilities, duties, and responsiplans, evaluations, preconstruction the General Statutes as a licensed Authorized On-Site Wastewater Ev	Authorization is subject to revo ot be affected by a change in of the Laws and Rules for Sew 's authorized agents, and the libilities imposed by statute or n conference findings, submitted engineer or a person certified valuator in GS 130A-335(a2), (at the continuous the cont	ocation if the site plownership of the site vage Treatment and local health departning in common law frotals, or actions from I pursuant to Article a5), and (a7). The Dond bear liability for the operations permit	ing the signed and sealed plans or evaluations an, plat, or the intended use changes. The te. This Construction Authorization is subject Disposal and to the conditions of this permit.  The ments shall be discharged and released from many 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.



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

	LHD USE ONLY: This CA resubmittal received:	Date	by	
The following it	tems are being resubmitted pursuant to G.S. 130A-	-335(a5) for issuance o	f the Construction Authoriza	ition:
	S LUE S	[ATF	Dr.	
is accurate and	hereby attest to a site Wastewater Evaluator (Print Name) complete to the best of my knowledge and that the and local laws, regulations, rules, and ordinances.		equired to be included with to	
reactal, state, a	and local laws, regulations, rules, and oralliances.			
Signatur	re of Authorized On-Site Wastewater Evaluator	4	Date	
	The section below is for Local Health Department		ems noted as missing above.	
LHD Follow-ւ	up Completeness Review of Construction	Authorization		
	completeness of this Construction Authorization re on Authorization is determined to be:	e-submittal was condu	cted in accordance with G.S	. 130A-335(a5).
☐ Incomplete (	(If box is checked, information in this section is rec	quired.)		
The following it	ems are missing:			
	JOSE ON	AW AIDER		
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:	





### ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL

County:	
PIN/Lot Identifier:	
Issued To:	
Additional Improvement Permit Conditions:	
STATE	
MAY 20.175	
	λ
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	\X
	1/3
	10
	18
Additional Construction Authorization Conditions:	7
1PRIL 12 1776	
1830 W X X V V V V V V V V V V V V V V V V V	
ACMINI 4.	

7

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

alexadams@bcsoil.com

October 22, 2025 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)"

RE: Wellers Knoll - Lot #10 (26 Charred Oak 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 18E. From this evaluation, ASC is providing the attached 360 gallon/day 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 360 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 Harnett 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 #10 360 gallon/day Septic Design 26 Charred Oak Court - Lillington, NC Davidson Homes

Harnett County PIN: 0529-78-5842

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

#### \*\*1000 Gallon Septic and Pump Tanks

System: Pressure Manifold

Lines: 1-3 (255')

0.4 LTAR

24 Max Trench Bottom Accepted Status System Repair: Pressure Manifold

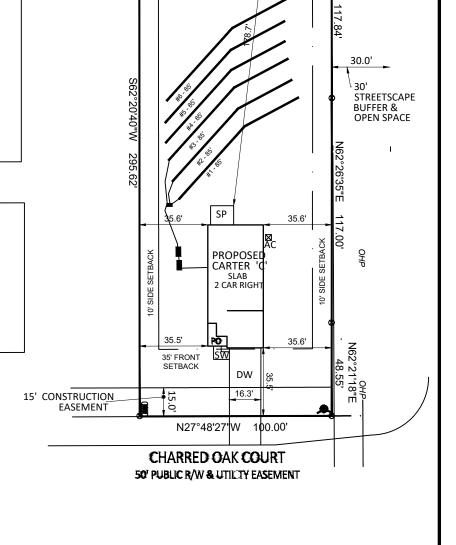
Lines: 4-6 (255') 0.4 LTAR

24" Max Trench Bottom Accepted Status System

\*\*1000 Gallon Septic and Pump Tanks
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

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



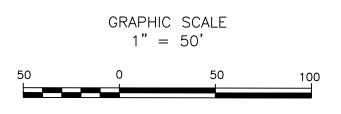
S20°51'07"E 100.93'

10

0 666 AC

28,99@SREAR SETBACK

Adams
Soil Consulting
919-414-6761
Job #1623
10-21-25



<sup>\*</sup>Comply with all setbacks

#### RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Wellers Knoll Lot 10

# of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.4000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 765 System Type: Accepted

Number of Taps: <u>3</u> Length of Trenches: <u>255</u> ft(See Tap Chart for Details)

Depth of Trenches: <u>24</u> in Manifold Length: <u>36</u> in

Manifold Diameter: 4in sch 80pvc Tap Configuration: 6 in spacing 1 side(s) of manifold

Supply Line: length: 50 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 1.33 ft(supply line length + 70' for fittings in pump tank)

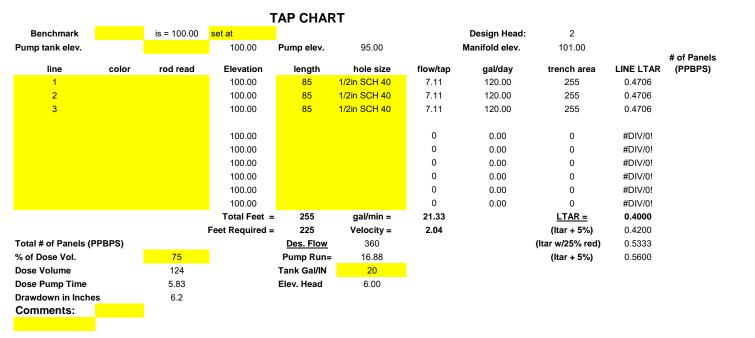
Design Head: <u>2</u> ft Elevation Head: <u>6.00</u> ft

Total Head: 9.33 ft Pump to Deliver: 21.33 gals/min at 9.33 ft head

Dosing Volume: <u>124</u> gals,

Drawdown: 124 gals divided by  $\underline{20}$  gals/in =  $\underline{6.2}$  inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.



# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Davidson Homes

ADDRESS:

APPLICATION DATE: DATE EVALUATED: 10-21-22 PROPERTY SIZE: .0.67 Acres

 $PROPOSED\ FACILITY: Single\ Family,\ 3-bedroom \\ PROPOSED\ DESIGN\ FLOW\ (.1949):\ 360\ gpd$ 

LOCATION OF SITE26 Charred Oak Ct. Lillington NC 27546

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring

TYPE OF WASTEWATER: Sewage

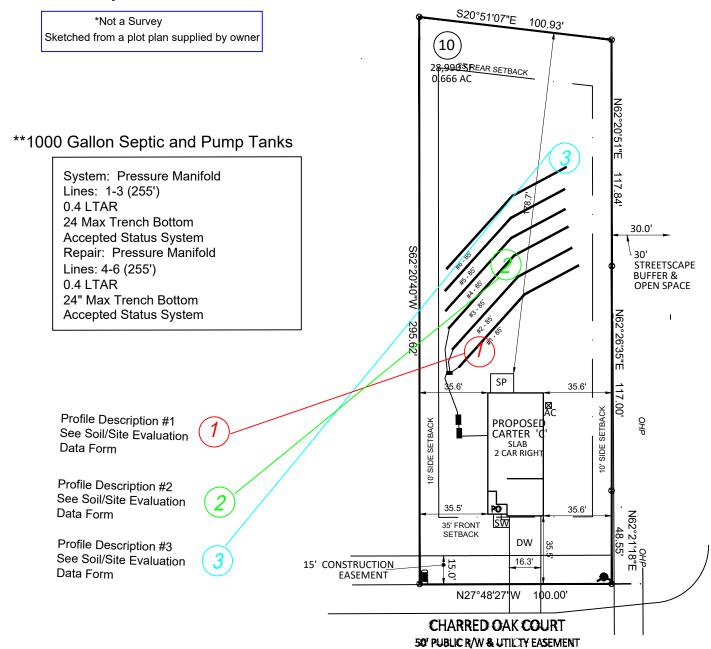
P R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	Linear Slope/3%	0-40	GR/SL	VFR/SEXP/NS	N/A	N/A	N/A	N/A	PS/.4
	Linear Slope/3%	0-40	GR/SL	VFR/SEXP/NS	N/A	N/A	N/A	N/A	PS/.4
	Linear Slope/3%	0-40	GR/SL	VFR/SEXP/NS	N/A	N/A	N/A	N/A	PS/.4
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):	
Available Space (.1945)	S	S	SITE CLASSIFICATION (.1948): PS	
System Type(s) Type III B Type		Type III B	EVALUATED BY:A. Adams OTHER(S) PRESENT:	
Site LTAR	0.4	0.4		

COMMENTS:\_

## Wellers Knoll - Lot #10 360 gallon/day Septic Design 26 Charred Oak Court - Lillington, NC Davidson Homes

Harnett County PIN: 0529-78-5842



Adams
Soil Consulting
919-414-6761
Job #1623
10-21-25

