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 Permit	(a2) Construction Author	ization	
	IMPROVEM	IENT PERMIT FOR G.S. 13	80A-335(a2)	
County:				
PIN/Lot Identifier:				
Issued To:				
Property Location:				
Subdivision (if applicab	ole)	Lot #:	Block:	Section:
LSS Report Provided: \	Yes No No			
If yes, name and licens	e number of LSS:			
New 🗌	Expansion	System Relocation	Change of Use	
Facility Type:				
Number of bedrooms:	Number of Occupants:	Other:		
Design Wastewater Str	rength: Domestic	High Strength] Industrial Process Wastewater	
Proposed Design Daily	Flow:GPD	Proposed LTAR (Initial):	Proposed LTAR (Repair):	
Proposed Wastewater	System Type*:	(Initial)	Pump Required: 🗌 Yes 🔲 No	☐ May be required
Proposed Wastewater	System Type*:	(Repair) F	Pump Required: Yes No	☐ May be required
*Please include system	n classification for proposed wastev	vater system types in accordance	with Rule .1301 Table XXXII	
Effluent Standard:	DSE HSE NSF/ANSI 40	TS-I TS-II RCW		
Saprolite System (Initia	al): 🗌 Yes 🔲 No Saprolit	e System (Repair): 🗌 Yes 🔲 No	1	
Fill System (Initial):	Yes No If yes, specify: Ne	w Existing (when adding mo	ore than 6 inches of fill to system	area provide a fill plan)
Fill System (Repair):	Yes No If yes, specify: N	ew Existing (when adding m	ore than 6 inches of fill to system	n area provide a fill plan)
Usable Depth to LC (In	itial) ^x :	Usable Depth to LC (Repair)x:	× Limiting Co	ndition
Max. Trench Depth (In	itial) [‡] : Max. Tr	ench Depth (Repair)‡:	[‡] Measured on the dow	nhill side of the trench
Artificial Drainage Req	uired: Yes No If yes, plea	se specify details:		
Type of Water Supply:	Private well Public well	Shared well Municipal	Supply Spring Othe	r:
Drainfield location med	ets requirements of Rule .0508: Ye	s No Drainfield location	on meets requirements of Rule .0	0601: Yes
Permit valid for: Five	ve years [site plan submitted pursu	ant to GS 130A-334(13a)] 🔲 No	expiration [plat submitted pursu	uant to GS 130A-334(7a)]
Permit conditions:				
Licensed Soil Scientist	Print Name:			

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

See attached site sketch

Licensed Soil Scientist Signature: _____

___ Date: _____



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 depa department, the common form developed by the Department, and a soil evaluation, the common form developed by the Department, and a soil evaluation, it is to complete the substitution of the required components. If the local health department shall notify the applicant of the components needed to complete the Improved department to cure the deficiencies in the Improvement Permit. The local heal is complete within five business days after the local health department received act within any period set out in this subsection, the applicant may treat the facommon form for use as the Improvement Permit.	uation pursuant to su s review of the submit t determines that the ment Permit. The app Ith department shall I es the additional infol	osection (a2) of this section, the local health departi tal. A determination of completeness means that th Improvement Permit is incomplete, the local health licant may submit additional information to the local make a final determination as to whether the Impro mation 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	is required.)		
The following items are missing:			
	b 5	121	
Copies of this were sent to the LSS and the Applicant on	Date		
State Authorized Agent:		Date:	
☐ Complete			
State Authorized Agent:	-1/56	Date:	
This Improvement Permit is issued pursuant to G.S. 130A-33 attached here. The issuance of this permit in no way guaran for checking with appropriate governing bodies in meeting the plat, or the intended use changes. The Improvement Permit permit is subject to compliance with the provisions of 15A N. 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 heir requirement shall not be affe CAC 18E and to t he local health d e or in common l	e of other permits. The permit holder is rest. This permit is subject to revocation if the steed by a change in ownership of the site the conditions of this permit. Experiments shall be discharged and release from any claim arising out of or attribute.	esponsible the site plan, This ased from
Improvement Permit Expiration Date:			

See attached site sketch

2



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

	LHD USE ONLY: This IP resubmittal receiv	ved:	by	_
The following it	tems are being resubmitted pursuant to G.S. 13	30A-335(a3) for issuar	nce of the Improvement Perr	mit:
	J. LE	SIATE	All Control	
s accurate and	hereby att Scientist (Print Name) complete to the best of my knowledge and th laws, regulations, rules, and ordinances.		on required to be included o	
Signatur	e of Licensed Soil Scientist		Date	
HD Follow I	The section below is for Local Health Departn up Completeness Review of Improven		of items noted as missing abo	ve.
The review for o	completeness of this Improvement Permit re-sermit is determined to be:		ted in accordance with G.S.	130A-335(a3). This
	(If box is checked, information in this section ems are missing:	is required.)		
Copies of this w	vere sent to the LSS and the Applicant on	Date		
State Authorize	d Agent:		Date:	
☐ Complete				
State Authorize	d Agent:		Date:	



Permit/File #:

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

County:			Pre-Construction Conference Required: Yes No No
PIN/Lot Identifie	er:		
Issued To:			
Property Locatio	on:		
AOWE/PE Plans/	/Evaluations Provide	:d: Yes 🔲 No 🗀	If yes, name and license number of AOWE/PE:
Facility Type:			
Number of bedro	ooms: Nun	nber of Occupants	:: Other:
New	Expansion	Repair	System Relocation Change of Use
Basement?	Yes	☐ No	Basement Fixtures? Yes No
Crawl Space?	Yes	☐ No	Slab Foundation? Yes No
Type of Wastew	ater System*		(Initial) (Repai
*Please include s	system classification	for proposed was	stewater system types in accordance with Rule .1301 Table XXXII
Design Daily Flov	w:	_GPD W	/astewater Strength: ☐ Domestic ☐ High Strength ☐ Industrial Process WW
	.4-120 Section 53, Er covide engineering d		Utilizing Low-flow Fixtures and Low-flow Technologies?
Effluent Standar	d: DSE H	ISE NSF/ANS	il 40 🔲 TS-II 🔲 TS-II 🔲 RCW
Type of Water Si	upply: 🗌 Private w	ell 🔲 Public we	ell 🗌 Shared well 📗 Municipal Supply 🔲 Spring 🔲 Other:
Installation Req	uirements/Conditio	<u>ns</u>	
Septic Tank Size:	: gallon	s Total Trench/E	Bed Length: feet Trench/Bed Spacing: feet on center
Trench/Bed Wid	lth: inches	LTAR:	gpd/ft ² Usable Depth to LC (Initial) ^x : ^x Limiting condition
Soil Cover:	_ inches Slope (Corrected Maximu	m Trench/Bed Depth [‡] : inches [‡] Measured on the downhill side of the trench
Pump Tank Size	(if applicable):	gallons	Requires more than 1 pump?
Pump Requirem	ents: ft. TDH	l vs GPM	Grease Trap Size (if applicable): gallons
Distribution Met	thod: Serial	D-Box or Paralle	el Pressure Manifold(s) LPP Other:
Artificial Drainag	ge Required: Yes 🗌	No 🗌 If yes, p	please specify details:
Legal Agreemen	nts (If the answer is '	'Yes" to any type o	of legal agreements, please attach a copy of the agreement.)
Multi-party Agre	eement Required [.0	204(g)]:	☐ No Declaration of Restrictive Covenants: ☐ Yes ☐ No
Easement, Right	of-Way, or Encroac	hment Agreement	t Required [.0301(b)]: Yes No
Management En	ntity Required: 🔲 Y	es 🗌 No Minir	mum O&M Requirements:
Permit conditi	ions:		
			by reference into this permit and shall be met. Systems shall be installed in accordance
			horization is subject to revocation if the site plan, plat, or the intended use changes. The change in ownership of the site. This Construction Authorization is subject to compliance
		-	8A .1900, as applicable, and to the conditions of this permit.
AOWE/PE Print I	Name:		
			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 #:	
Permit/File #:	

This Section for Local Health Department Use Only

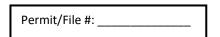
	Initial submittal received:	k	DY
		Date	Initials
G.S. 130A-335(a5) states the follow	ving:		
Improvement Permit and Construction Authoperatment, and any necessary signed and sengineer or a person certified pursuant to Audiengineer or a person certified pursuant to Audiengartment shall, within five business days of the Construction Authorization or Improvement of the Construction Authorization and the Construction Authorization and the Local health department of the Information to the local health department of the Information to the Information to the Information of the Information to the Information of the Information is complete within five business department fails to act within any period seapply for the building permit for the project Authorization by the Incal health department licensed engineer submitting the evaluation Authorization or Improvement Permit and Control of the Information of Improvement Permit and Control of Improvement Permit and Control of Improvement Permit and Control of Information of Improvement Information of Improvement Information of Improvement Information of Improvement Information Improvement Information Information Improvement Information Improvement Information Improvement Information Improvement Information Improvement Information Improvement Information Information Improvement Information Information Information Information Information Information Information Information Inform	orization application together, the per sealed plans or evaluations conducted ricle 5 of Chapter 90A of the General of receiving the application, conduct a sent Permit and Construction Authorization or Improvement Permit and Construction Authorization or Improvement Permit and Construction Authorization of splete the Construction Authorization of spartment to cure the deficiencies in the shall make a final determination as to see days after the local health department out in this subsection, the applicant if upon the decision of completeness of the or if the local health department fair pursuant to this subsection may requirense to the construction Authorization for cause. Ususpend or revoke the Construction Authorization for causes.	rmit fee charged by the lot by a person licensed pur Statutes as an Authorize a completeness review of ration includes all of the retruction Authorization is sor Improvement Permit a the Construction Authorization whether the Construction Authorization are the Construction Authorisis and the Construction Authorisis to act within five busing that the local health of Jpon written request of the tuthorization or Improvem	ation together, submits a Construction Authorization, or an ocal health department, the common form developed by the resuant 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 equired components. If the local health department incomplete, the local health department shall notify the not Construction Authorization. The applicant may submit ation or Improvement Permit and Construction in Authorization or Improvement Permit and Construction al information from the applicant. If the local health incit as a determination of completeness. The applicant may ization or Improvement Permit and Construction ess days. The Authorized On-Site Wastewater Evaluator or idepartment revoke or suspend the Construction he Authorized On-Site Wastewater Evaluator or licensed nent Permit and Construction Authorization pursuant to G.S.
The review for completeness of thi	s Construction Authorization v	was conducted in ac	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:	187/18	1	
41 04			
Copies of this were sent to the AOV	NE/PE and the Applicant on	10	
		Date	
State Authorized Agent:			Date:
Complete			
State Authorized Agent:	M. T. Commission		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	tuthorization is subject to revo ot be affected by a change in of the Laws and Rules for Sev is authorized agents, and the ibilities imposed by statute or n conference findings, submit engineer or a person certified valuator in GS 130A-335(a2), (tments shall be responsible and e, including the issuance of the	ocation if the site p ownership of the si wage Treatment and local health departr r in common law fro tals, or actions fron d pursuant to Article (a5), and (a7). The D and bear liability for e operations permit	sing the signed and sealed plans or evaluations lan, plat, or the intended use changes. The te. This Construction Authorization is subject d Disposal and to the conditions of this permit. ments shall be discharged and released from om any claim arising out of or attributed to a person licensed pursuant to Chapter 89C of a 5 of Chapter 90A of the General Statutes as an department, the Department's authorized their actions and evaluations and other a pursuant to GS 130A-337.



Permit/File #:

Re-submittal of Construction Authorization

	LHD USE ONLY: Th	nis CA resubmittal received:	Date	by Initials	-
The following i	tems are being resubm	itted pursuant to G.S. 130A-3	335(a5) for issuance of	of the Construction Author	ization:
			AT	<i>3</i> -	
1		herehy attest ti	hat the information r	equired to be included wit	h this re-suhmittal
is accurate and		(Print Name) of my knowledge and that thoons, rules, and ordinances.			
Signatui	re of Authorized On-Site Was	tewater Evaluator	4	Date	
		ร for Local Health Department เ		ems noted as missing above.	
LHD Follow-	up Completeness R	Review of Construction	Authorization		
	completeness of this C on Authorization is det	onstruction Authorization re ermined to be:	-submittal was condu	ucted in accordance with G	i.S. 130A-335(a5).
☐ Incomplete	(If box is checked, info	rmation in this section is req	uired.)		
The following it	ems are missing:				
		JUNE ON	M AIDER	J.	
Copies of this w	vere sent to the AOWE	/PE and the Applicant on	Date	-	
State Authorize	ed Agent:			Date:	
☐ Complete					
State Authorize	ed Agent:			Date:	





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

County:	
PIN/Lot Identifier:	
Issued To:	
Additional Improvement Permit Conditions:	
E STATE	
6 N N N N N N N N N N N N N N N N N N N	
Net lend state to the second s	
Additional Construction Authorization Conditions:	
1PRII 12 1776	
White The state of	
QUAM VI	

7

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

alexadams@bcsoil.com

July 11th, 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: Single Barrel Ct. Lillington NC 27546 (Harnett County)
Wellors Knoll Lot 11. Davidson Homes, PIN # (0529-89-5155)

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 2-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 240 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.

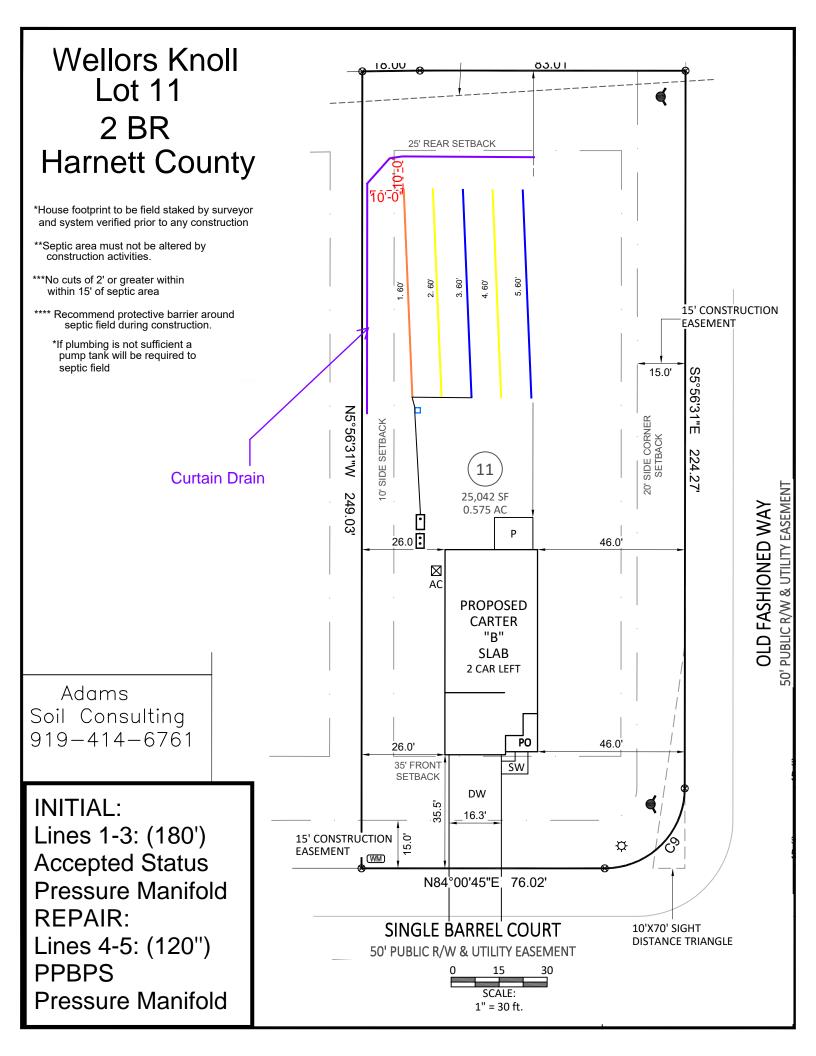
Sincerely,

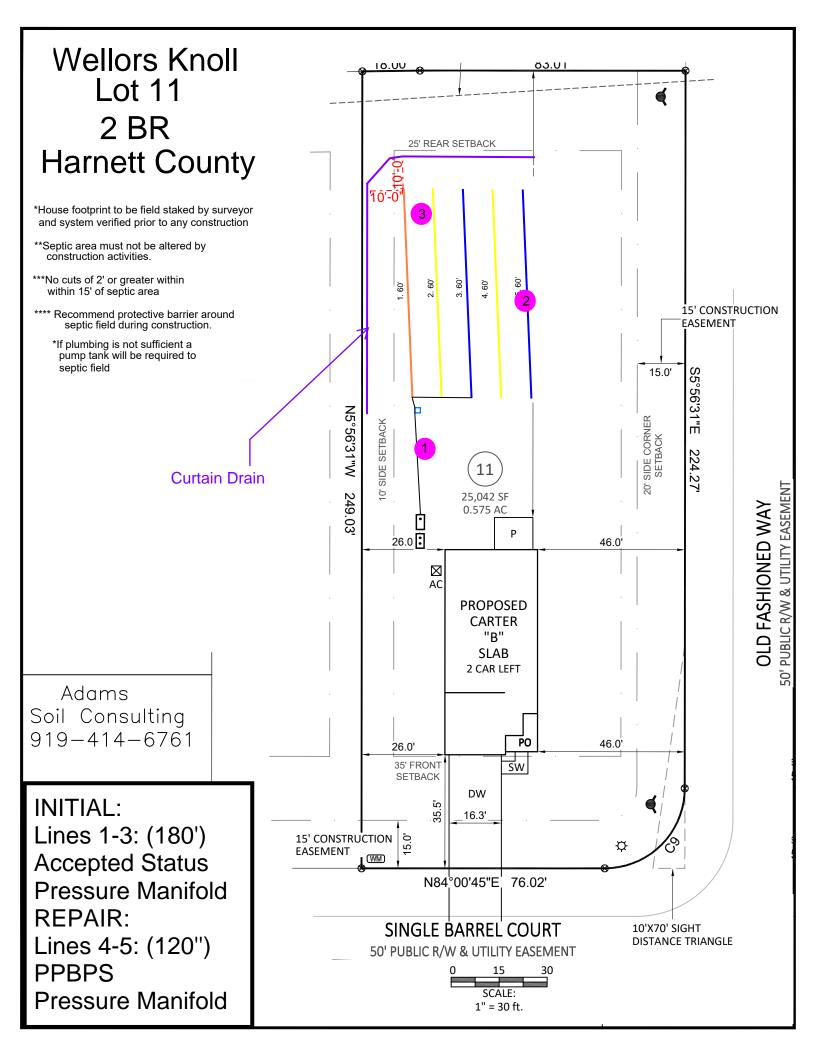
Alex Adams

NC Licensed Soil Scientist #1247 AOWE Certification: 10021E









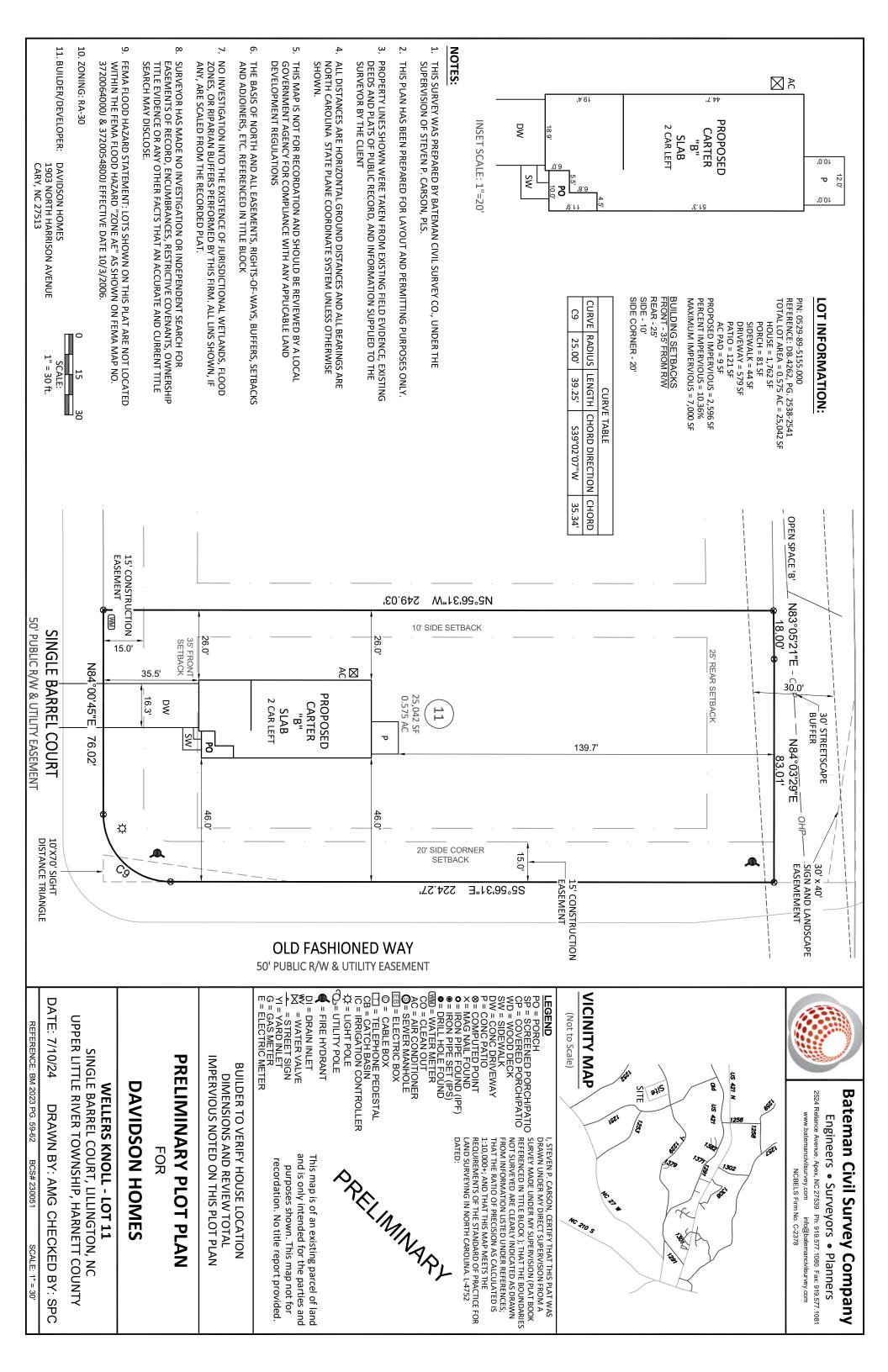
Page <u>1</u> of <u>1</u> PROPERTY ID #: 0529-89-5155 COUNTY: Harnett

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

OWNER:	Davidson F	lomes	(Comple	te an neids in ran)		DATE EVALUATED): 7/11/2025
ADDRESS:	:						
PROPOSEI	FACILITY:	Single Family 2 BR	PROPOSED DESI	GN FLOW (.0400):	240 gpd	PROPERTY SIZE:	.57 Acres
LOCATION	N OF SITE: Si	ingle Barrel Ct. Lillingtor	NC 27546			PROPERTY RECORDS	ED:Y
WATER SU	JPPLY: 🗵 Pul	olic 🗌 Single Family W	ell Shared Well	l Spring Othe	er	_ WATER SUPPLY SETE	BACK:
CALLIAT	ION METHOD	N. V Ayram Damina .	Dia Cost	TVDE OF WACTE	WATED.	V Damastia Iliah Ctuan	~4l.

EVALUATION METHOD: Auger Boring Pit Cut TYPE OF WASTEWATER: Domestic High Strength 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
		0-18	GR/LS	VFR,SEXP,NS		34"	N.O	N.O		
	Linear	18-34	SBK SCL	FI,SEXP,S						
1	2%				34"				U/P.S .35	1"
		0-22	GR/LS	VFR,SEXP,NS		36"	N.O	N.O		
	Linear 2%	22-36	SBK SCL	FI,SEXP,S						4.11
2					N.O				P.S .4	1"
	Linear	0-22	GR/LS	VFR,SEXP,NS	N.O	36"	N.O	N.O	P.S .4	1"
		22-36	SBK SCL	FI,SEXP,S						
3	2%				14.0					
							1			
4										

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



RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Wellors Knoll Lot 11

of BDR: 2 Daily Flow: 240 gal/day L.T.A.R.: 0.3500 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 540 System Type: Accepted

Number of Taps: <u>3</u> Length of Trenches: <u>180</u> ft(See Tap Chart for Details)

Depth of Trenches: 18 in Manifold Length: 36 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: 2 ft Elevation Head: 6.00 ft

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

Dosing Volume: 88 gals,

Drawdown: 88 gals divided by 20 gals/in = 4.4 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.

