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 Perm	it (a2) Construct	ion Authorization	Fee \$	
	IMPROV	EMENT PERMIT FO	R G.S. 130A-3	35(a2)	
County:		<del></del>			
PIN/Lot Identifier:					
Subdivision (if applicat	ole)		Lot #:	Block:	Section:
LSS Report Provided: `	Yes No No				
If yes, name and licens	se number of LSS:				
New 🗌	Expansion 🗌	System Re	elocation 🗌	Change of	f Use
Facility Type:					
Number of bedrooms:	Number of Occupants	s: Other:			
Design Wastewater St	rength: Domestic	High Strength	☐ Indu	strial Process Wastew	vater
Proposed Design Daily	Flow:GPD	Proposed LTAR (Initi	al):	Proposed LTAR (Rep	oair):
Proposed Wastewater	System Type*:		(Initial) Pump F	Required: 🗌 Yes 📗	No May be required
Proposed Wastewater	System Type*:		(Repair) Pump F	Required: 🗌 Yes 📗	No May be required
*Please include system	n classification for proposed was	stewater system types in a	ccordance with R	ule .1301 Table XXXII	
Effluent Standard:	DSE HSE NSF/ANS	SI 40 TS-I TS-II	RCW		
Saprolite System (Initia	al): 🗌 Yes 🔲 No Sapr	olite System (Repair):	Yes No		
Fill System (Initial):	Yes No If yes, specify:	New 🗌 Existing (wher	adding more tha	n 6 inches of fill to sy	stem area provide a fill plan)
Fill System (Repair):	Yes No If yes, specify:	New Existing (whe	n adding more tha	an 6 inches of fill to sy	ystem area provide a fill plar
Usable Depth to LC (In	itial) <sup>x</sup> :	Usable Depth to LC (	Repair) <sup>x</sup> :	× Limitin	g Condition
Max. Trench Depth (In	itial)‡: Max	Trench Depth (Repair)‡: _		<sup>‡</sup> Measured on the	downhill side of the trench
Artificial Drainage Req	uired: Yes No If yes, p	lease specify details:			
Type of Water Supply:	Private well Public we	ell Shared well	Municipal Supply	Spring _	Other:
Drainfield location me	ets requirements of Rule .0508:	: Yes 🔲 No 🔲 Drain	field location mee	ts requirements of R	ule .0601: Yes No No
Permit valid for: 🗌 Fi	ve years [site plan submitted pu	ırsuant to GS 130A-334(13	a)] 🗌 No expira	tion [plat submitted	pursuant to GS 130A-334(7a)
Permit conditions:					
Licensed Soil Scientist	Print Name:				
Licensed Soil Scientist	Signature: XLLX X	amaat		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:	Date	by	
		Dute	Illiuuis	
The following i	items are being resubmitted pursuant to G.S. 130A-335(	(a3) for issuance of	f the Improvement Permit:	
		TOTAL STATE		
	THE SIA	MF ~	Dr.	
l,	hereby attest that t	the information re	quired to be included with	n this re-submittal
is accurate and	Scientist (Print Name) complete to the best of my knowledge and that the pr l laws, regulations, rules, and ordinances.	oposed Improvem	ent Permit meets all appli	cable federal,
Signatui	re of Licensed Soil Scientist		Date	
	The section below is for Local Health Department use a	ıfter submittal of ite	ms 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:	l was conducted in	accordance with G.S. 130	IA-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-Constr	uction Conference Required: Yes No
PIN/Lot Identifier:	
Issued To:	
Property Location:	
AOWE/PE Plans/Evaluations Provided: Yes 🔲 No 🔲 If yes, name and licens	e number of AOWE/PE:
Facility Type:	
Number of bedrooms: Number of Occupants: Other:	
New   ☐ Expansion   ☐ Repair   ☐ System Relocation	on Change of Use
Basement? Yes No Basement Fixtures?	☐ Yes ☐ No
Crawl Space? Yes No Slab Foundation?	☐ Yes ☐ No
Type of Wastewater System* (Ini	tial) (Repair)
*Please include system classification for proposed wastewater system types in a	accordance with Rule .1301 Table XXXII
Design Daily Flow: GPD Wastewater Strength: ☐ I  Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixture (if yes, please provide engineering documentation)  Effluent Standard: ☐ DSE ☐ HSE ☐ NSF/ANSI 40 ☐ TS-I ☐ TS-II	s and Low-flow Technologies?
Type of Water Supply: Private well Public well Shared well	Municipal Supply   Spring   Other:
Installation Requirements/Conditions	CARL W
Septic Tank Size: gallons Total Trench/Bed Length: fee	
Trench/Bed Width: inches LTAR: gpd/ft² Usa Soil Cover: inches Slope Corrected Maximum Trench/Bed Depth‡: Pump Tank Size (if applicable): gallons Requires more than Pump Requirements: ft. TDH vs GPM Grease Trap Size (if Distribution Method:	inches * Measured on the downhill side of the trench  1 pump?  Yes  No  applicable): gallons  d(s)  LPP  Other:
Legal Agreements (If the answer is "Yes" to any type of legal agreements, pleas	e attach a copy of the agreement.)
Multi-party Agreement Required [.0204(g)]: Yes No	Declaration of Restrictive Covenants: Yes No
Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: $\Box$	Yes No
Management Entity Required: Yes No Minimum O&M Requirements	VIDE .
Permit conditions:	
The requirements of 15A NCAC 18E are incorporated by reference into this powith the attached site sketch. This Construction Authorization is subject to reconstruction Authorization shall not be affected by a change in ownership of with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, a AOWE/PE Print Name:  AOWE/PE Signature:	vocation if the site plan, plat, or the intended use changes. The the site. This Construction Authorization is subject to compliance

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

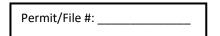
	Initial submittal received:	b	DY
		Date	Initials
G.S. 130A-335(a5) states the follow	ving:		
Improvement Permit and Construction Authoperatment, and any necessary signed and sengineer or a person certified pursuant to Audiengineer or a person certified pursuant to Audiengartment shall, within five business 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 is complete within five busines department fails to act within any period seapply for the building permit for the project Authorization by the local health department licensed engineer submitting the evaluation Authorization or Improvement Permit and Continuity of the Information of Improvement Permit and Continuity of Information of Improvement Information Informati	orization application together, the per sealed plans or evaluations conducted rticle 5 of Chapter 90A of the General of receiving the application, conduct a nent Permit and Construction Authorization or Improvement Permit and Construction or Improvement Permit and Construction Authorization or Improvement Permit and construction Authorization of splete the Construction Authorization of shall make a final determination as to ss days after the local health department out in this subsection, the applicant of upon the decision of completeness of the or if the local health department fair pursuant to this subsection may requirement to this subsection for cause. Ususpend or revoke the Construction Authorization for cause.	rmit fee charged by the lot by a person licensed pur Statutes as an Authorized completeness review of ation includes all of the retruction Authorization is it or Improvement Permit a the Construction Authorized whether the Construction and the Construction authorized to act within five business that the local health of Joon written request of the fluthorization or Improvement	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 required components. If the local health department sincomplete, the local health department shall notify the reduced construction Authorization. The applicant may submit action or Improvement Permit and Construction and Information from the applicant. If the local health rect 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 he Authorized On-Site Wastewater or licensed then Permit and Construction pursuant to G.S.
The review for completeness of thi	s Construction Authorization v	vas 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:		1	
41 04			
Copies of this were sent to the AOV	WE/PE and the Applicant on	J. Francisco	
		Date	
State Authorized Agent:			Date:
	C / The same		
Complete			
State Authorized Agent:	VALUE OF THE PARTY		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, submit engineer or a person certified valuator in GS 130A-335(a2), ( tments shall be responsible and	ocation if the site plownership of the sivage Treatment and local health department in common law frostals, or actions from Jays and (a7). The Dand 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 #:
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### **Re-submittal of Construction Authorization**

	LHD USE ONLY: This CA resubmittal received:	Date	by	
The following is	Lems are being resubmitted pursuant to G.S. 130A-3	335(a5) for issuance o	f the Construction Authoriza	l tion:
	JUE ST	ATE	D	
is accurate and	hereby attest the state of the state of the state of the best of my knowledge and that the state of the best of my knowledge and that the state of t		equired to be included with tion Authorization meets all a	
Signatur	re of Authorized On-Site Wastewater Evaluator	4	Date	
LHD Follow-ւ	The section below is for Local Health Department of Completeness Review of Construction		ems noted as missing above.	
	completeness of this Construction Authorization re on Authorization is determined to be:	-submittal was condu	cted in accordance with G.S.	130A-335(a5).
☐ Incomplete (	(If box is checked, information in this section is req	uired.)		
The following it	ems are missing:			
	JAMES OUR	W 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	
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	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 #9 (44 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 480 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 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 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

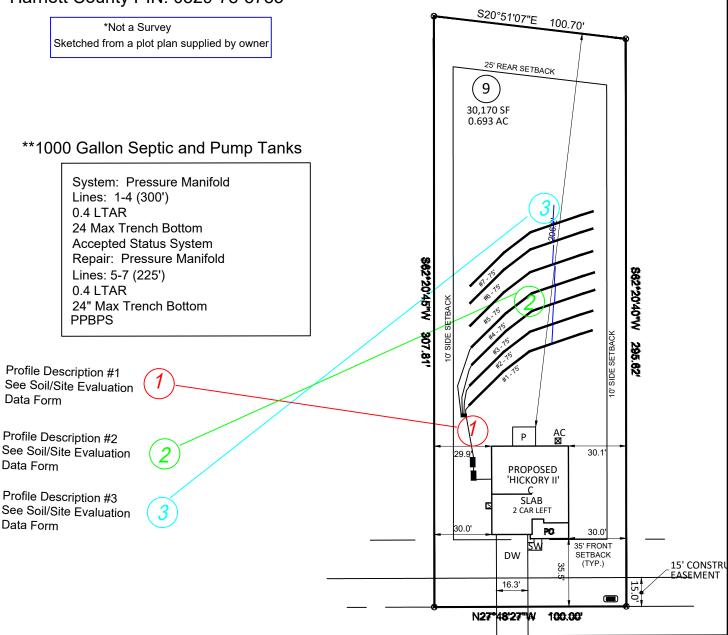
NC Licensed Soil Scientist #1247 AOWE Certification: 10021E





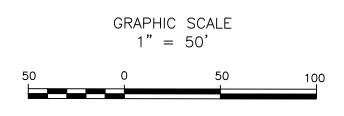
Wellers Knoll - Lot #9
Soil Boring Locations
44 Charred Oak Court - Lillington, NC
Davidson Homes

Harnett County PIN: 0529-78-5783



CHARRED OAK COURT
50' PUBLIC R/W & UTILITY EASEMENT

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



### RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Wellers Knoll Lot 9

# of BDR: 4 Daily Flow: 480 gal/day L.T.A.R.: 0.4000 gal/day/sq.ft

Septic Tank: 1200 gals Pump Tank: 1200 gals Sq. Foot: 900 System Type: Accepted

Number of Taps:  $\underline{4}$  Length of Trenches:  $\underline{300}$  ft(See Tap Chart for Details)

Depth of Trenches: <u>24</u> in Manifold Length: <u>42</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: 2.27 ft(supply line length + 70' for fittings in pump tank)

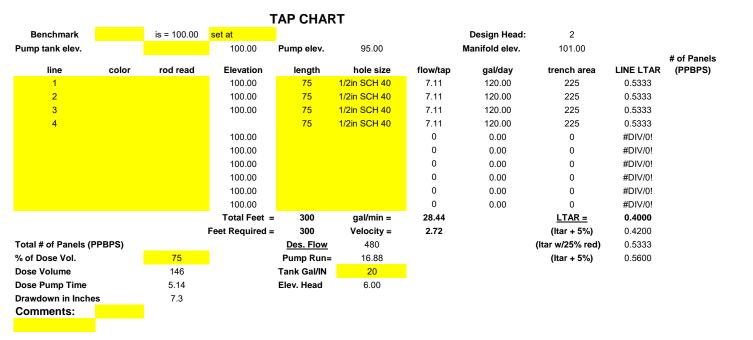
Design Head:  $\underline{2}$  ft Elevation Head:  $\underline{6.00}$  ft

Total Head: 10.27 ft Pump to Deliver: 28.44 gals/min at 10.27 ft head

Dosing Volume: <u>146</u> gals,

Drawdown: 146 gals divided by  $\underline{20}$  gals/in =  $\underline{7.3}$  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: .0.69 Acres

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

LOCATION OF SITE 44 Charred Oak Ct. Lillington NC 27546

P R O F I L E	.1940 LANDS CAPE POSITION/ SLOPE %	CAPE HORIZON ON/ DEPTH	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	DESCRIPTION INITIAL SYSTEM REPA		OTHER FACTORS (.1946):			
Available Space (.1945)	S	S	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:\_

### Wellers Knoll - Lot #9 480 gallon/day Septic Design 44 Charred Oak Court - Lillington, NC Davidson Homes

Harnett County PIN: 0529-78-5783

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

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

System: Pressure Manifold

Lines: 1-4 (300') 0.4 LTAR

24 Max Trench Bottom Accepted Status System Repair: Pressure Manifold

Lines: 5-7 (225') 0.4 LTAR

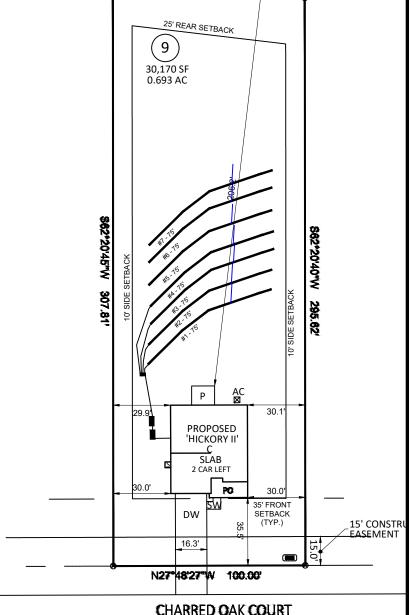
24" Max Trench Bottom

**PPBPS** 

\*\*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

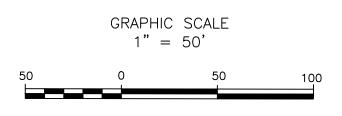
\*Contact local health dept. and/or Alex Adams prior to or during installation with any questions or concerns.



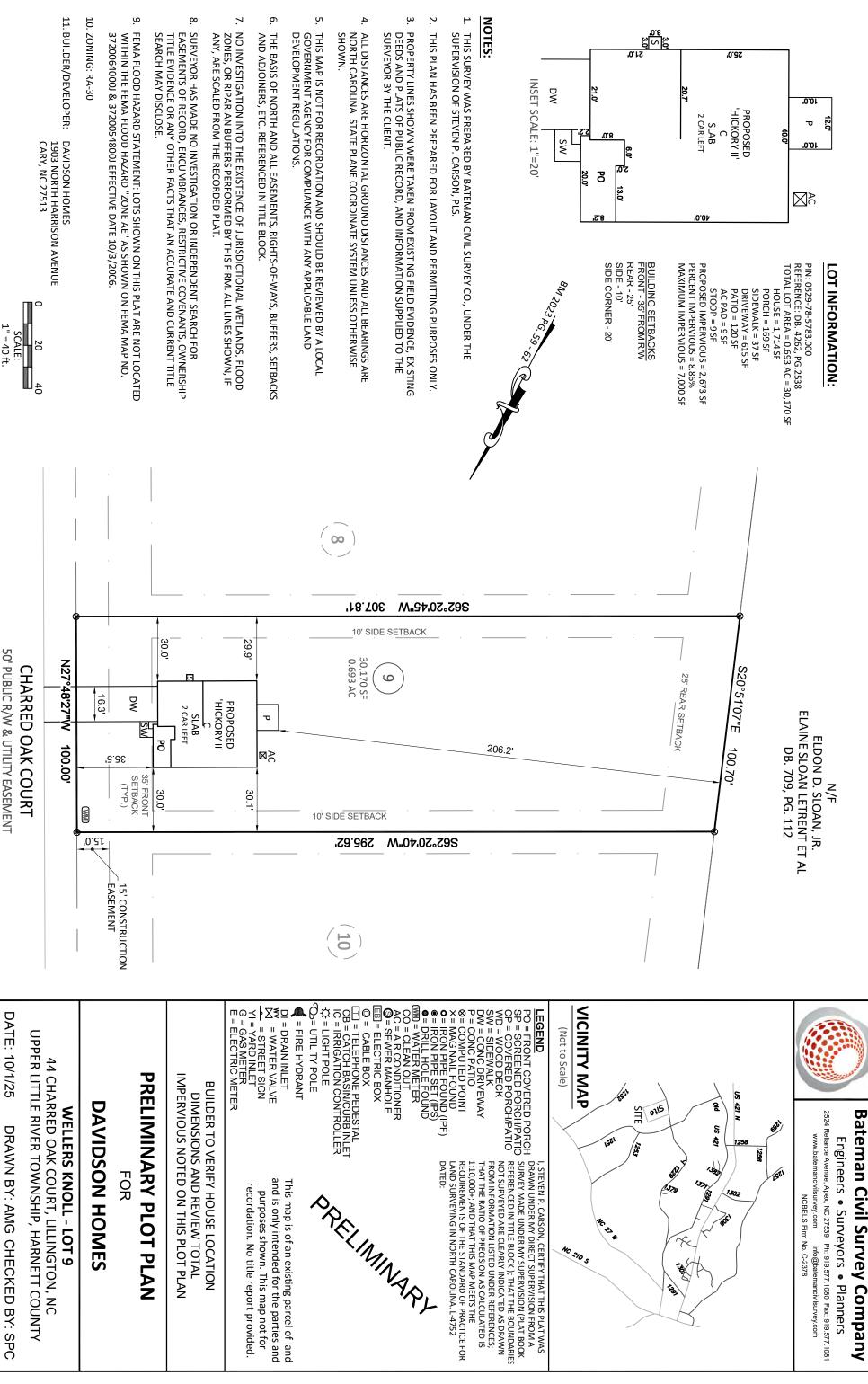
S20°51'07"E 100.70'

CHARRED OAK COURT 50' PUBLIC R/W & UTILITY EASEMENT

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



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



# **Bateman Civil Survey Company**

Engineers • Surveyors • Planners

2524 Reliance Avenue, Apex, NC 27539 Ph: 919.577.1080 Fax: 919.577.1081 www.batemancivilsurvey.com info@batemancivilsurvey.com

NCBELS Firm No. C-2378

6Gb)

1981

1258

US 421

1302

SITE

16 EL 4

NC 210 5

REFERENCED IN TITLE BLOCK); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION LISTED UNDER REFERENCES; THAT THE RATIO OF PRECISION AS CALCULATED IS

## PRELIMINARY PLOT PLAN FOR

DAVIDSON HOMES

UPPER LITTLE RIVER TOWNSHIP, HARNETT COUNTY 44 CHARRED OAK COURT, LILLINGTON, NC **WELLERS KNOLL - LOT 9** 

DRAWN BY: AMG CHECKED BY: SPC

REFERENCE: BM 2023 PG. 59-62 BCS# 230051 SCALE: 1" = 40'