

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

March 27, 2025
Project #1215

RE: 39 Grading Stick Ct. - Angier, NC 27501– (Harnett County,
NC PIN# 0693-24-8865)

OWNER ACCEPTANCE OF SEPTIC SYSTEM

I certify that Drees Homes is accepting the subsurface wastewater (septic) system installed at 39 Grading Stick Ct. The acceptance includes the AOWE permit as issued and designed by Adams Soil Consulting, PLLC and installed by Full Circle Septic Installers).

Bradley weekley

Owner’s Representative (print): _____

Owner’s Representative – (Signature Date): _____

DocuSigned by:
Bradley Weekley
4E761125D09C444...

3/27/2025 | 7:59:14 AM EDT

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

March 27, 2025
Project #1215

This document is submitted in addition to the "Notice of Intent to Construct" submittal package previously supplied to the local health department in pursuant to G.S. 130A-336.1

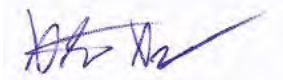
RE: 39 Grading Stick Ct. - Angier, NC 27501– (Harnett County, NC PIN# 0693-24-8865

To whom it may concern:

This letter is to notify the Harnett County Environmental Health Department that the construction of the wastewater system has been completed. The system was installed to acceptable construction standards. The installation was constructed in conformance to the original construction documents and utilizing "EZ-Flow" accepted status product. This document may serve as "Authorization to Operate"

the installed system. **Operation and Management Program**

Have the effluent filter in the septic tank cleaned periodically by a professional. Have the solids pumped out of the septic tank every 3-5 years by a professional. Maintain adequate vegetative cover over the drainfield. Keep surface waters away from the tank and drainfield. Do not pour grease or oil down the sink. Contact a professional for periodic maintenance.



Alex Adams
Adams Soils Consulting, PLLC
NC Licensed Soil Scientist #1247



North Carolina Onsite Wastewater Contractor Inspector Certification Board
Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems
Notice of Intent (NOI) to Construct

☒ New ☐ Expansion ☐ Repair ☐ Relocation ☐ Relocation of Repair Area

Owner or Legal Representative Information: Teri Treffzs

Name: Drees Homes Company

Mailing address: 211 Grandview Drive - Suite 102 City: Ft. Mitchell State: KY Zip: 41017

Phone: 919-256-5478

Email: ttreffzs@dreeshomes.com

Authorized Onsite Wastewater Evaluator Information:

Name: Alex Adams

Certification #: AOWE# 10021E

Mailing address: 1676 Mitchell Road City: Angier State: NC Zip: 27501

Phone: 919-414-6761

Email: alexadams@bcsoil.com

Site Location Information:

Site address: Lot #58 (Tobacco Road) 39 Grading Stick Ct. - Angier, NC 27501

Tax parcel identification number or subdivision lot, block number of property: PIN# 0693-24-8865

County: Harnett

System Information: Accepted Status

Wastewater System Type: Type III (b)

Daily Design Flow: 480 gallons/day

Saprolite System: ☐ Yes ☒ No Subsurface Operator Required: ☐ Yes ☒ No

Water Supply Type: ☐ Private Well ☒ Public Water Supply ☐ Spring ☐ Other:

Facility Type:

☒ Residential ☐ 4 # Bedrooms ☐ 8 Maximum # of Occupants

☐ Business Type of Business and Basis for Flow: _____

☐ Public Assembly Type of Public Assembly and Basis for Flow: _____

Required Attachments:

☒ Plat or Siteplan

☒ Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 25th day of October 2024 by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina.

This NOI shall expire on 25th day of October 2029.

Signature of Authorized Onsite Wastewater Evaluator: Alex Adams

Signature of Owner or Legal Representative: _____

Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.

Local Health Department Receipt Acknowledgement:

Signature of Local Health Department Representative: _____ Date: _____

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

October 24, 2024
Project #1215

“This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-336.2

RE: Tobacco Road -Lot #58 - 39 Grading Stick Ct. - Angier, NC - 4-bedroom Single Family Residence (PIN# 0693-24-8865)

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 septic system design for a new single-family home sized for a 480 gallon/day septic system.

The suitable soils found on the subject property were somewhat variable 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.

The initial and primary septic fields for the new home were sized based on a flow rate of 480 gallons/day and utilizing Accepted Status system for the initial and a PPBPS repair system. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the repair (if needed) system on contour, see attached site plan for the primary system and repair. 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 flags trench flags are missing at the time of installation, they must be remarked by Adams Soil Consulting staff. Contact Alex Adams at 919-414-6761. A preconstruction conference is required with the septic installer prior to construction activities at least 14 days in advance of construction activities.

This report does not guarantee the future function of any waste water disposal system installed.

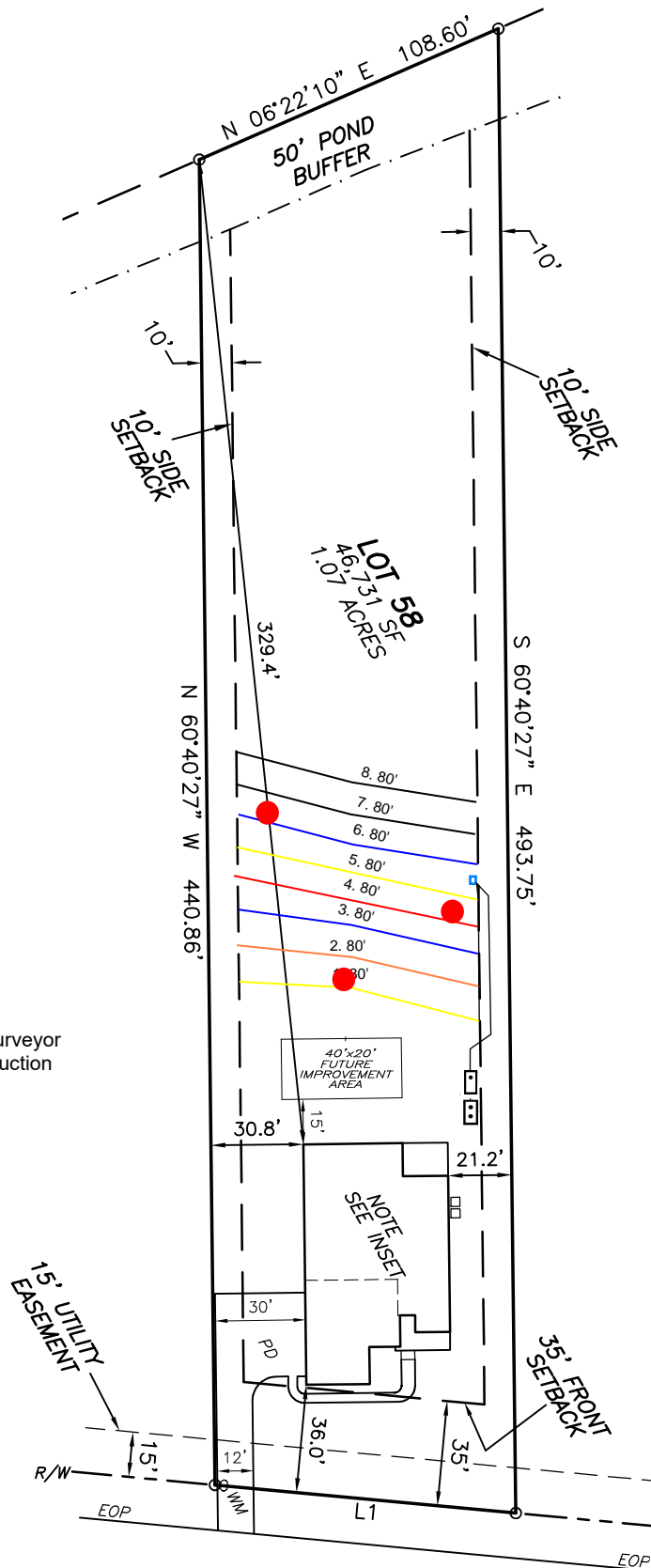
If you have any questions regarding the findings on the attached site plan or in this report, please feel free to contact me anytime.

Sincerely,



Alex Adams
NC Licensed Soil Scientist #1247
AOWE Certification: 10021E





*If plumbing is not sufficient a pump tank will be required to septic field

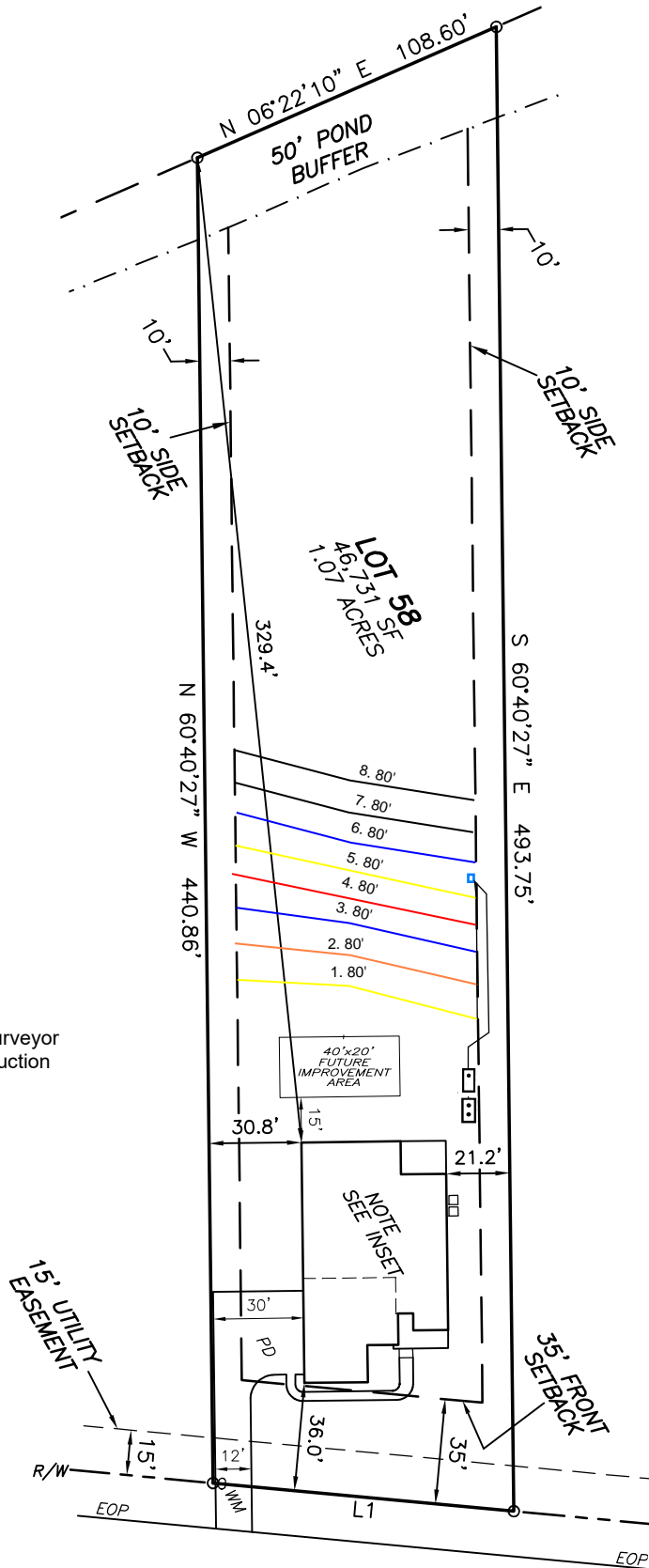
INITIAL:
Lines 1-5 (400')
Accepted Status
Pressure Manatee
REPAIR:
Lines 6-8 (240')
PPBPS
Pressure Manifold

Adams
Soil Consulting
919-414-6761



GRAPHIC SCALE

Tobacco Road Lot 58 4 BR Harnett County



*House footprint to be field staked by surveyor and system verified prior to any construction

**Septic area must not be altered by construction activities.

***No cuts of 2' or greater within 15' of septic area

**** Recommend protective barrier arc septic field during construction

*If plumbing is not sufficient a pump tank will be required to septic field

INITIAL: 22" max
trench bottoms
Lines 1-5 (400')
Accepted Status
Pressure Manatee
REPAIR:
Lines 6-8 (240')
PPBPS
Pressure Manifold

GRADING STICK COURT
(50' PUBLIC R/W &
UTILITY EASEMENT)

0 60 120 180'



GRAPHIC SCALE

Adams
Soil Consulting
919-414-6761

Lot 58 Tobacco Road
PRESSURE MANIFOLD DESIGN -Initial

Drees Homes

of BDR: 4Daily Flow: 480gal/dayL.T.A.R.: 0.3500gal/day/sq.ft

Septic Tank: 1000galsPump Tank: 1000galsSq. Foot: 1200System Type: Accepted

Number of Taps: 5Length of Trenches: 400ft(See Tap Chart for Details)

Depth of Trenches: 22inManifold Length: 48in

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

Supply Line: length: 120ftDiameter: 2in sch 40pvc

Friction Loss + Fitting Loss: 5.43ft(supply line length + 70' for fittings in pump tank)

Design Head: 2ftElevation Head: 6ft

Total Head: 13.43ftPump to Deliver: 35.55gals/min at 13.43ft head

Dosing Volume: 182gals,

Drawdown: 182gals divided by 21.4gals/in = 8.5inches

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.

TAP CHART

Benchmark	Q	is = 100.00	set at				Design Head:				
Pump tank elev.		18	95.00	Pump elev.	90.00		Manifold elev.	1.00		# of Panels	Change in
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Spacing of Panels (in)
1	Yellow			80	1/2in SCH 40	7.11	96.00	240	0.4000		
2	Orange			80	1/2in SCH 40	7.11	96.00	240	0.4000		
3	Blue			80	1/2in SCH 40	7.11	96.00	240	0.4000		
4	Red			80	1/2in SCH 40	7.11	96.00	240	0.4000		
5	Yellow			80	1/2in SCH 40	7.11	96.00	240	0.4000		

Total Feet = 400gal/min = 35.55

Feet Required = 343Velocity = 3.40

Des. Flow 480

Pump Run= 13.50

Tank Gal/IN 21.4

Elev. Head 6

LTAR = 0.3500

(ltar + 5%) 0.3675

(ltar w/25% red) 0.4667

(ltar + 5%) 0.4900

Total # of Panels (PPBPS)

% of Dose Vol. 70

Dose Volume 182

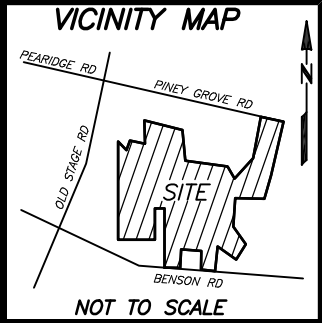
Dose Pump Time 5.12

Drawdown in Inches 8.5

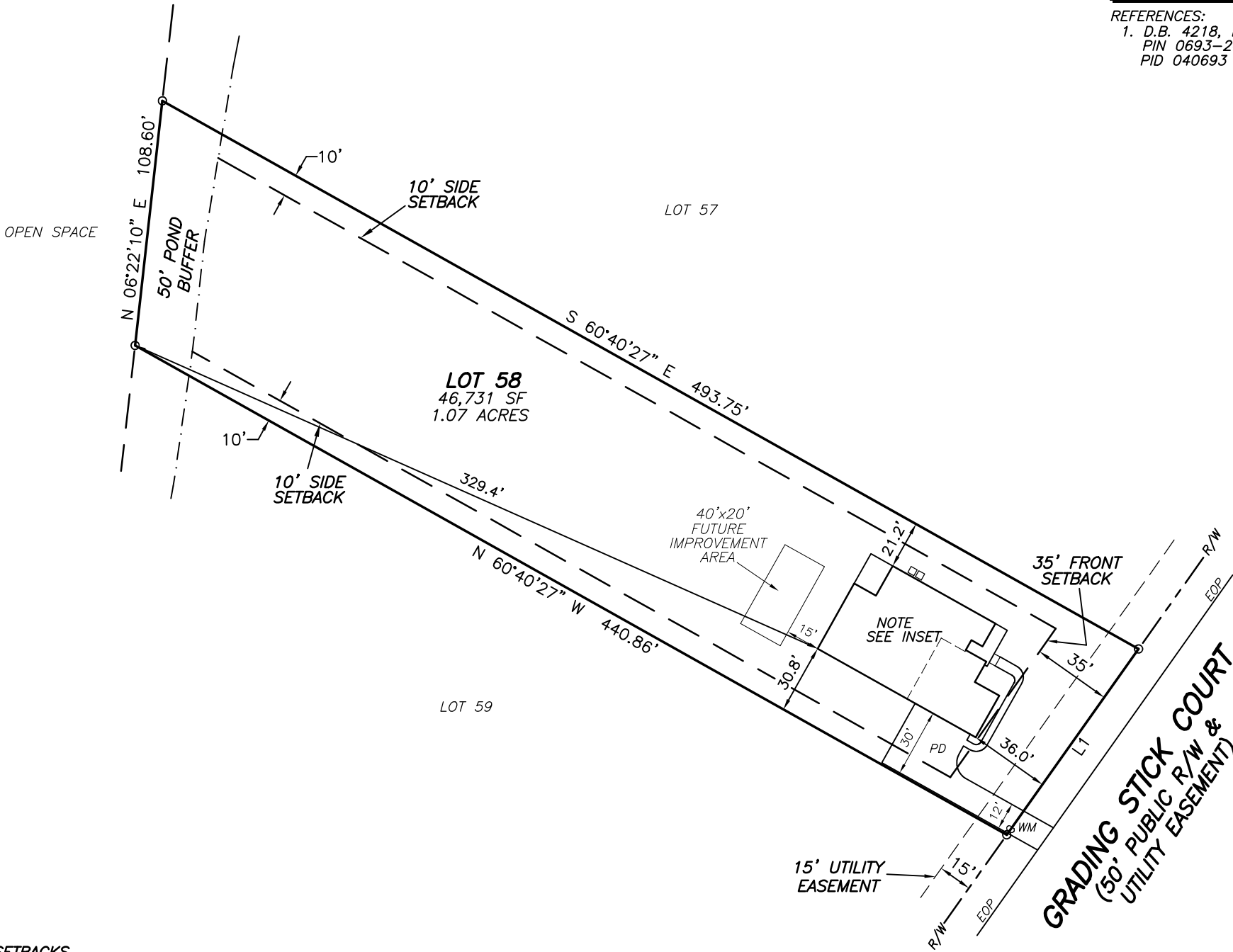
Comments:

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S 35°20'22" W	100.55'

PROPOSED IMPERVIOUS SURFACES:
TOTAL LOT AREA=46,731 S.F.
HOUSE/PORCHES=3,546 S.F.
DRIVEWAYS/ETC.=1,500 S.F.
TOTAL IMPERVIOUS AREA=5,046 S.F.
MAX. IMPERVIOUS AREA=5,500 S.F.



REFERENCES:
1. D.B. 4218, PG. 193
PIN 0693-24-8865.000
PID 040693 0030 39



SETBACKS

FRONT YARD-35'
SIDE YARD-10'
REAR YARD-25'
CORNER SIDE-20'

LEGEND

(EOP)-EDGE OF PAVEMENT
(PD)-PROPOSED DRIVEWAY
(WM)-WATER METER
(AC)-AIR CONDITIONER

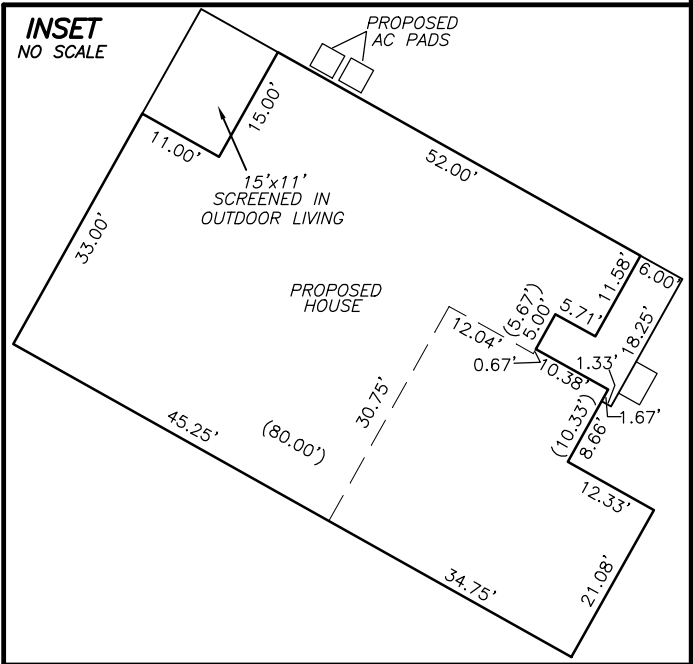
NOTES:

- ALL EASEMENTS, RIGHTS OF WAY AND BOUNDARY INFORMATION TAKEN FROM P.B. 2023, PG 563-568 UNLESS OTHERWISE NOTED.
- PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD. NO TITLE EXAMINATION HAS BEEN DONE BY ROBINSON & PLANTE, P.C.
- INDIVIDUAL ON SITE SEPTIC SYSTEM FOR ALL LOTS
- WATER TO BE PROVIDED BY HARNETT COUNTY PUBLIC UTILITIES
- NO ENCROACHMENTS INTO THE WETLANDS WILL BE ALLOWED.
- LOTS TO BE INTERNALLY ACCESSED ONLY.
- ONLY N.C. DEPARTMENT OF TRANSPORTATION APPROVED STRUCTURES ARE TO BE CONSTRUCTED ON PUBLIC RIGHT OF WAY.
- ANY PARCELS OR EXCLUDED AREAS ARE TO BE SERVED INTERNALLY WITH NO ACCESS ONTO DEPARTMENTAL RIGHT OF WAY.
- ALL DRAINAGE EASEMENTS SHALL BE DEDICATED AS PUBLIC AND SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNERS TO MAINTAIN THE DRAINAGE EASEMENTS AND ANY DRAINAGE STRUCTURES THERE IS SO AS TO MAINTAIN THE INTEGRITY OF DRAINAGE SYSTEM AND INSURE POSITIVE DRAINAGE
- PROPERTY FRONTAGE SHALL NOT PIPED WITHOUT AN APPROVED ENCROACHMENT AGREEMENT FROM NCDOT. THE EASEMENT ALLOWS NCDOT THE RIGHT TO ACCESS THE DRAINAGE EASEMENTS AND PERFORM WORK IT DEEMS NECESSARY OR PRUDENT TO ALLEVIATE ANY ISSUES JEOPARDIZING THE INTEGRITY OF THE ROADWAY.

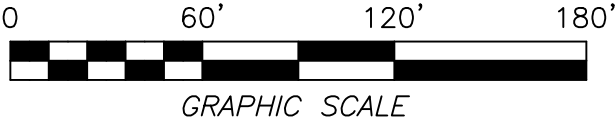
PRELIMINARY PLAT- NOT FOR RECORDATION,
CONVEYANCE, OR SALE

LOT 58 TOBACCO ROAD SUBDIVISION
PHASE 1 & 3
39 GRADING STICK COURT
HARNETT COUNTY
ANGIER, NC 27501

REFERENCE: PLAT BOOK 2023 PAGE 563-568 .



SURVEY FOR
DREES HOMES



FILE: TBRDL0T58PP

I CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION DESCRIPTION RECORDED IN REFERENCES AS SHOWN; THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION IN _____; THAT THE RATIO OF PRECISION IS 1:10,000; AND THAT THIS MAP MEET THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.16000). THIS _____ DAY OF _____, 2024.

PROFESSIONAL LAND SURVEYOR L-4433

PARKETTE
ELEV. D
SEALED CRAWL SPACE
SCREENED IN OUTDOOR LIVING
GARAGE LEFT SIDE

ROBINSON & PLANTE PC
LAND SURVEYING
C-2687
970 TRINITY ROAD
RALEIGH, N.C. 27607
PHONE (919) 859-6030
FAX (919) 859-6032

DATE: 10-21-24 SCALE: 1"=60'

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

OWNER: Drees
ADDRESS:
PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 480 gpd
LOCATION OF SITE: 39 Grading Stick Ct, Angier, NC, 27501
WATER SUPPLY: Public Water
EVALUATION METHOD: Auger Boring

APPLICATION DATE:
DATE EVALUATED: 10/23/2024
PROPERTY SIZE: 1.07 Acres
TYPE OF WASTEWATER: Sewage

P R O F I L E #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTLSE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	Linear Slope/5%	0-22	GR/LS	VFR,NS,NP,SEXP	N.O	38”	N.O	N.O	P.S .35
		22-38	SBK/SCL	FR,SS,SP,SEXP					
2	Linear Slope/5%	0-22	GR/LS	VFR,NS,NP,SEXP	N.O	36”	N.O	N.O	P.S .35
		22-36	SBK/SCL	FR,SS,SP,SEXP					
3	Linear Slope/5%	0-24	GR/LS	VFR,NS,NP,SEXP	N.O	40”	N.O	N.O	P.S .4
		24-40	SBK/SCL	FR,SS,SP,SEXP					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946): _____ SITE CLASSIFICATION (.1948): PS EVALUATED BY:A. Adams OTHER(S) PRESENT:
Available Space (.1945)	S	S	
System Type(s)	Type III B	Type III B	
Site LTAR	0.35	0.35	

COMMENTS:

Updated February 2014



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/17/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Wade Associates, LLC 250 Pollock St. New Bern NC 28560 INSURED Alex Adams, DBA: Adams Soil Consulting 1676 Mitchell Rd. Angier NC 27501	CONTACT NAME: Angela Sensenig PHONE (A/C, No, Ext): (252) 631-5269 FAX (A/C, No): (252) 649-2443 E-MAIL ADDRESS: asensenig@wadeict.com <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">INSURER(S) AFFORDING COVERAGE</th> <th style="text-align: center;">NAIC #</th> </tr> <tr> <td>INSURER A: Markel Insurance Company</td> <td>38970</td> </tr> <tr> <td>INSURER B:</td> <td></td> </tr> <tr> <td>INSURER C:</td> <td></td> </tr> <tr> <td>INSURER D:</td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Markel Insurance Company	38970	INSURER B:		INSURER C:		INSURER D:		INSURER E:		INSURER F:	
INSURER(S) AFFORDING COVERAGE	NAIC #														
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INSURER B:															
INSURER C:															
INSURER D:															
INSURER E:															
INSURER F:															

COVERAGES**CERTIFICATE NUMBER: 24-25****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/>	N/A				PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Errors & Omissions			ME01118-06	1/31/2024	1/31/2025	General Aggregate \$1,000,000 Each Occurrence \$1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

FOR INFORMATIONAL PURPOSES ONLY

 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

N Whitsett/RACHEL

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ACORD 25 (2014/01)

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INS025 (201401)