

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

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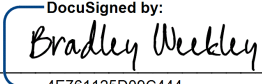
January 31, 2025  
Project #1215

RE: 12 Grading Stick Ct. - Angier, NC 27501– (Harnett County, NC PIN# 0693-24-9354)

**OWNER ACCEPTANCE OF SEPTIC SYSTEM**

I certify that Drees Homes is accepting the subsurface wastewater (septic) system installed at 12 Grading Stick Ct. The acceptance includes the AOWE permit as issued and designed by Adams Soil Consulting, PLLC and installed by Full Circle Septic Services).

Owner’s Representative (print): Bradley weekley

Owner’s Representative – (Signature Date):  1/31/2025 | 1:23:38 PM EST  
4E761125D09C444...

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Angier, NC 27501  
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January 31, 2024  
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: 12 Grading Stick Ct.- Angier, NC 27501– (Harnett County, NC PIN# 0693-24-9354)

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. 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

Date



**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 #62 (Tobacco Road) 12 Grading Stick Ct. - Angier, NC 27501  
 Tax parcel identification number or subdivision lot, block number of property: PIN# 0693-24-9354  
 County: Harnett

System Information: Accepted Status  
 Wastewater System Type: Type III (g)  
 Daily Design Flow: 480 gallons/day  
 Sapro-lite System:  Yes  No Subsurface Operator Required:  Yes  No  
 Water Supply Type:  Private Well  Public Water Supply  Spring  Other:

Facility Type:  
 Residential  # Bedrooms  4  8 Maximum # of Occupants  
 Business Type of Business and Basis for Flow: \_\_\_\_\_  
 Public Assembly Type of Public Assembly and Basis for Flow: \_\_\_\_\_

Require Attachments:  
 Plat or Siteplan  
 Evaluation of Soil and Site Features by Licensed Soil Scientist

Attest: On this the 22 Day of August 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 22th day of August 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**

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August 22, 2024  
Project #1215

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

RE: Tobacco Road -Lot #62 - 12 Grading Stick Ct. - Angier, NC - 4-bedroom Single Family Residence (PIN# 0693-24-9354)

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.

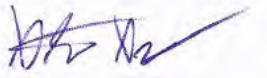
The initial and primary septic fields for the new home were sized based on a flow rate of 480 gallons/day and utilizing Accepted Status system for the initial and a PPBPS repair system. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

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



# Tobacco Road Lot 62 4 BR Harnett County

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

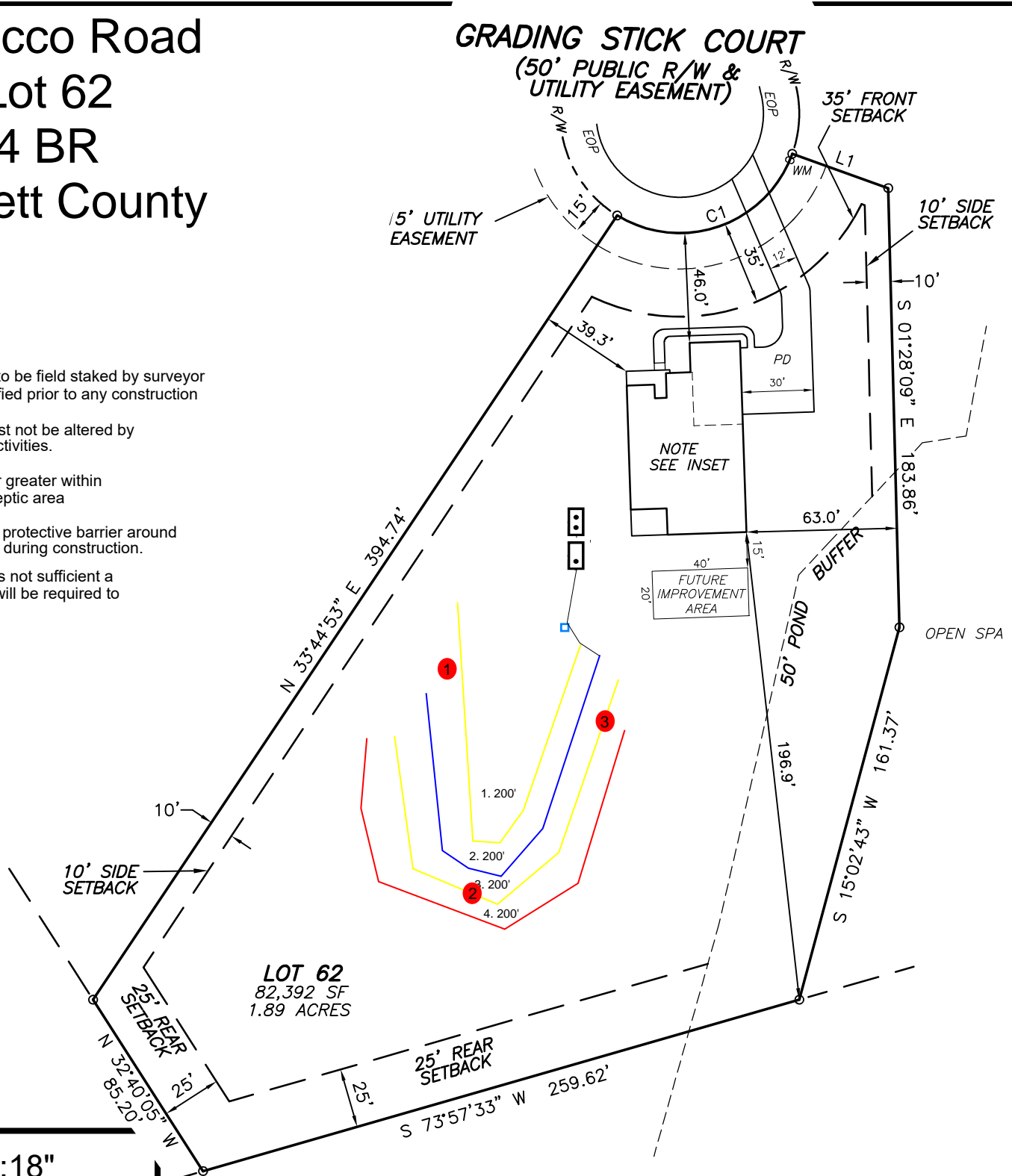
\*House footprint to be field staked by surveyor and system verified prior to any construction

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

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

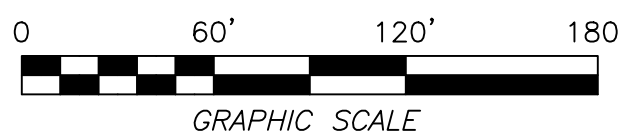
\*\*\*\* Recommend protective barrier around septic field during construction.

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



**LOT 62**  
82,392 SF  
1.89 ACRES

**INITIAL:18"**  
trench bottoms  
Lines 1-2 (400')  
Accepted Status  
Pressure Manitee  
**REPAIR:**  
Lines 3-4 (400')  
Accepted Status  
Pressure Manitee



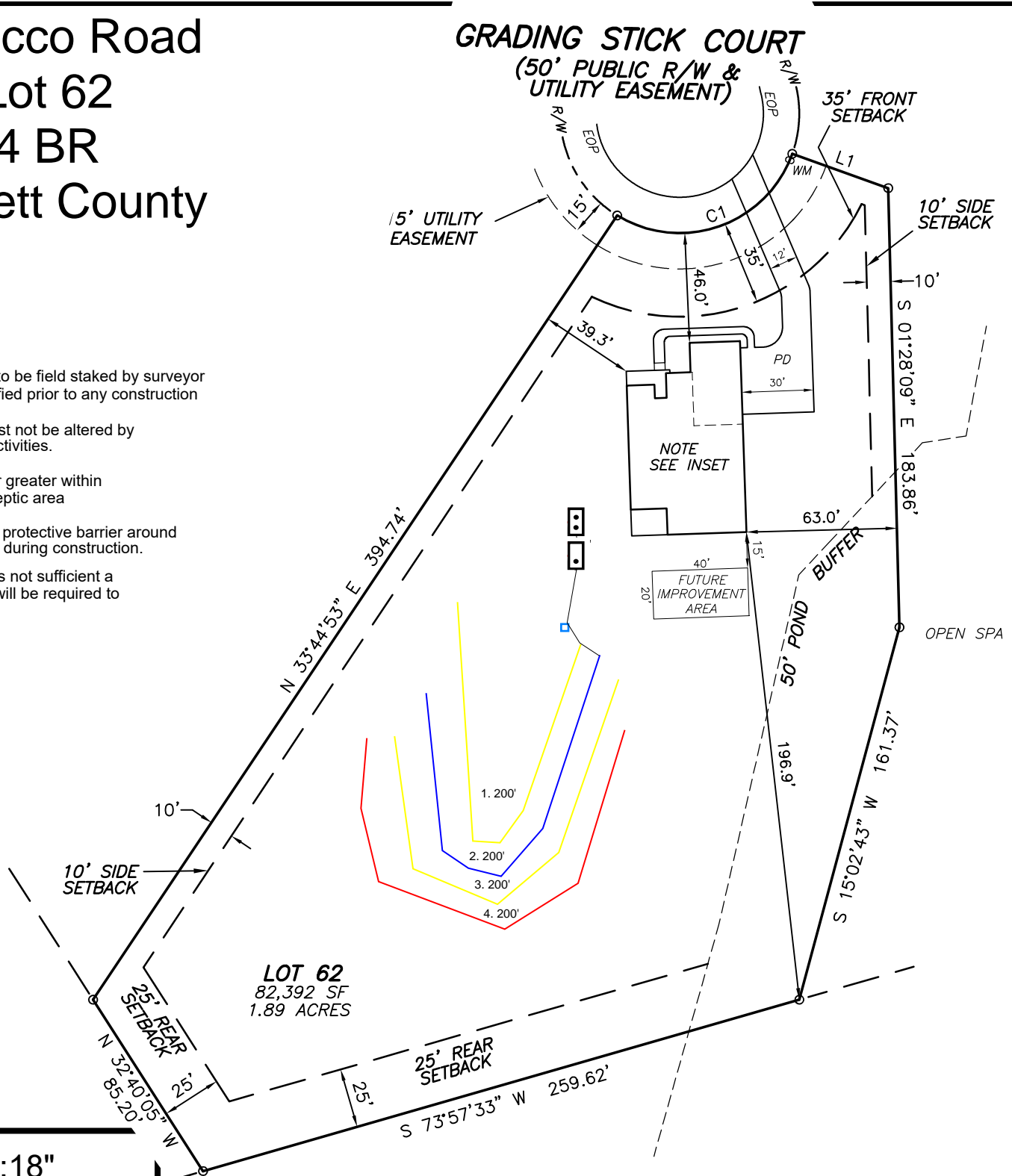
Adams  
Soil Consulting  
919-414-6761

# Tobacco Road Lot 62 4 BR Harnett County

## GRADING STICK COURT

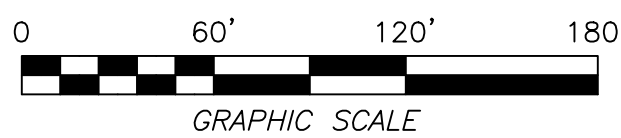
(50' PUBLIC R/W & UTILITY EASEMENT)

- \*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 around septic field during construction.
- \*If plumbing is not sufficient a pump tank will be required to septic field



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Adams  
Soil Consulting  
919-414-6761

**CURVE TABLE**

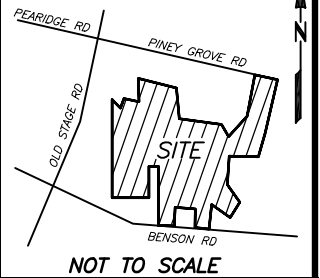
CURVE	DELTA	RADIUS	ARC	CHORD	TANGENT	CHORD BRG
C1	101°50'56"	50.00'	88.88'	77.63'	61.58'	N 70°35'43" E

**LINE TABLE**

LINE	BEARING	DISTANCE
L1	S 70°19'45" E	42.64'

PROPOSED IMPERVIOUS SURFACES:  
 TOTAL LOT AREA=82,392 S.F.  
 HOUSE/PORCHES=3,546 S.F.  
 DRIVEWAYS/ETC.=1,823 S.F.  
 TOTAL IMPERVIOUS AREA=5,369 S.F.  
 MAX. IMPERVIOUS AREA=5,500 S.F.

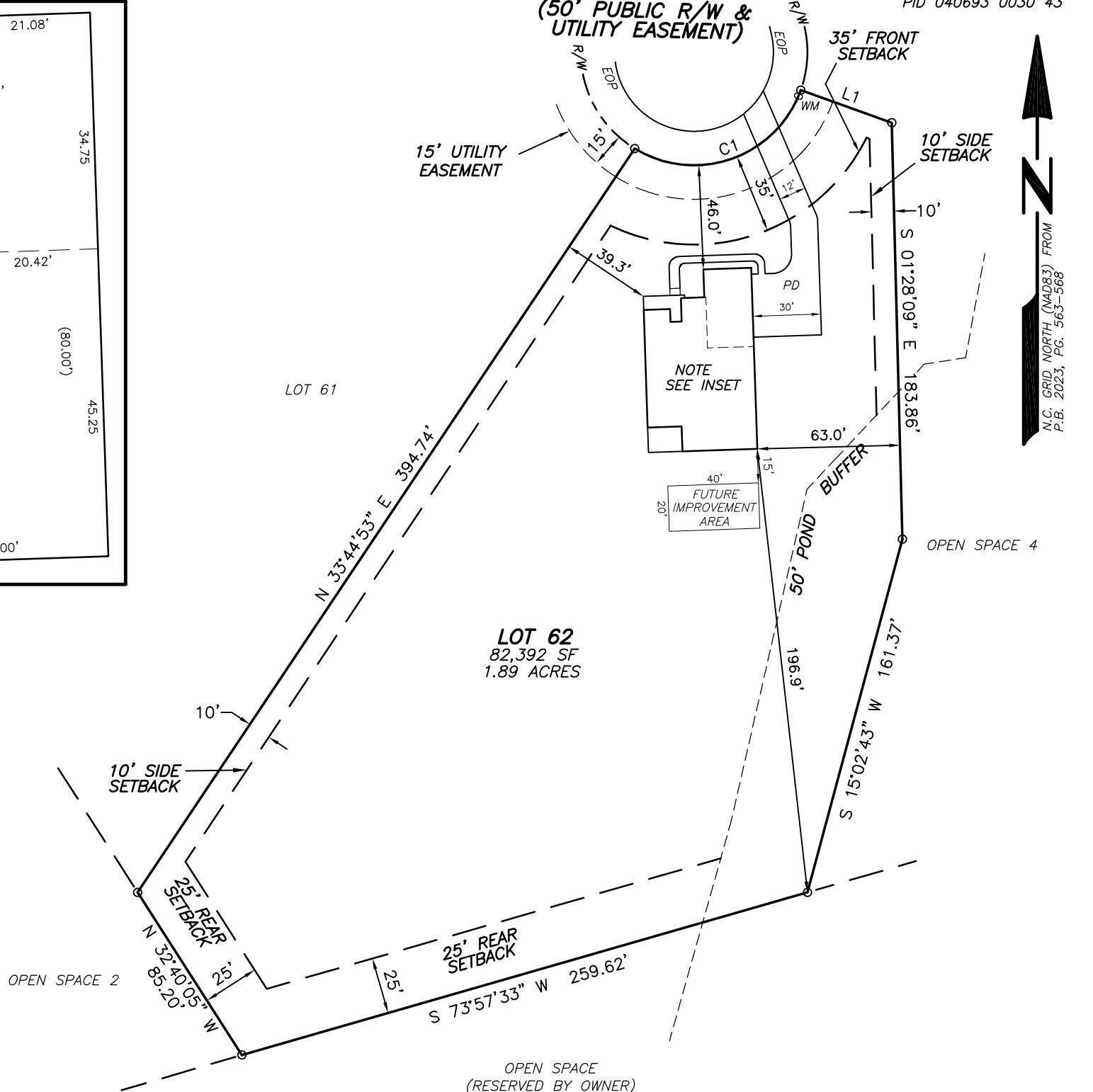
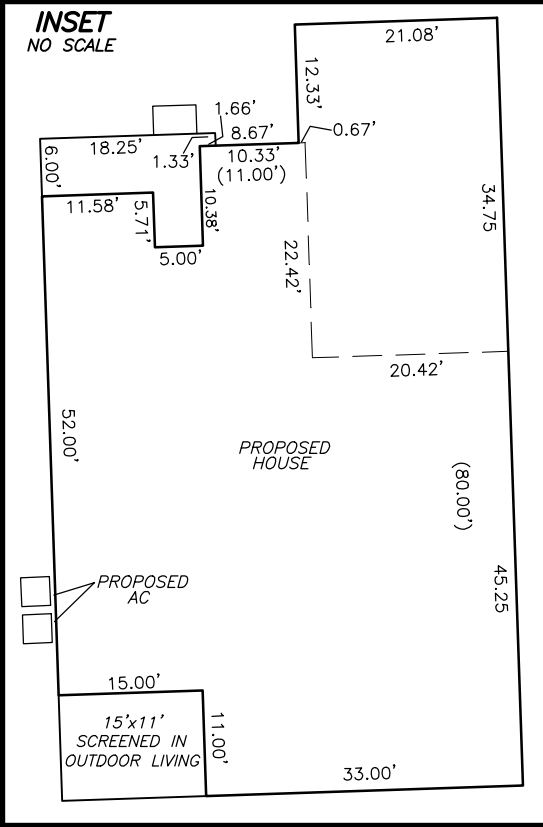
**VICINITY MAP**



NOT TO SCALE

REFERENCES:  
 1. D.B. 4218, PG. 193  
 PIN 0693-24-9354.000  
 PID 040693 0030 43

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



**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:**

1. ALL EASEMENTS, RIGHTS OF WAY AND BOUNDARY INFORMATION TAKEN FROM P.B. 2023, PG 563-568 UNLESS OTHERWISE NOTED.
2. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD. NO TITLE EXAMINATION HAS BEEN DONE BY ROBINSON & PLANTE, P.C.
3. INDIVIDUAL ON SITE SEPTIC SYSTEM FOR ALL LOTS
4. WATER TO BE PROVIDED BY HARNETT COUNTY PUBLIC UTILITIES
5. NO ENCROACHMENTS INTO THE WETLANDS WILL BE ALLOWED. LOTS TO BE INTERNALLY ACCESSED ONLY.
6. ONLY N.C. DEPARTMENT OF TRANSPORTATION APPROVED STRUCTURES ARE TO BE CONSTRUCTED ON PUBLIC RIGHT OF WAY.
7. ANY PARCELS OR EXCLUDED AREAS ARE TO BE SERVED INTERNALLY WITH NO ACCESS ONTO DEPARTMENTAL RIGHT OF WAY.
8. 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
9. 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 62 TOBACCO ROAD SUBDIVISION  
 PHASE 1 & 3  
 12 GRADING STICK COURT  
 HARNETT COUNTY  
 ANGIER, NC 27501**

REFERENCE: PLAT BOOK 2023 PAGE 563-568

**SURVEY FOR  
 DREES HOMES**



FILE: TBRDL0T62PPR1

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  
 3rd CAR GARAGE  
 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: 8-20-24

SCALE: 1"=60'



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

OWNER: Drees Homes LLC

ADDRESS:

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

LOCATION OF SITE: 12 Grading Stick Ct., Angier, NC, 27501

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring

APPLICATION DATE:

DATE EVALUATED: 08/19/2024

PROPERTY SIZE: 1.89 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/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	Linear Slope/1%	0-12	GR/SL	VFR,NS,NP,SEXP	7.5YR 7/2 @ 30"	30"	N.O	N.O	U/P.S/.3
		12-30	SBK/SCL	FR,SS,SP,SEXP					
2	Linear Slope/1%	0-12	GR/SL	VFR,NS,NP,SEXP	7.5YR 7/2 @ 30"	30"	N.O	N.O	U/P.S/.3
		12-30	SBK/SCL	FR,SS,SP,SEXP					
3	Linear Slope/1%	0-12	GR/SL	VFR,NS,NP,SEXP	7.5YR 7/2 @ 30"	30"	N.O	N.O	U/P.S/.3
		12-30	SBK/SCL	FR,SS,SP,SEXP					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946): _____ SITE CLASSIFICATION (.1948): U/PS  EVALUATED BY: A. Adams OTHER(S) PRESENT:
Available Space (.1945)	S	S	
System Type(s)	Type III B	Type III B	
Site LTAR	0.3	0.3	

COMMENTS:  
 Updated February 2014

**Lot 62 Tobacco Road  
PRESSURE MANIFOLD DESIGN -Initial**

Drees Homes

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

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 1200 System Type: **Accepted**

Number of Taps: 2 Length of Trenches: 400 ft(See Tap Chart for Details)

Depth of Trenches: 18 in Manifold Length: 30 in

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

Supply Line: length: 75 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 1.46 ft(supply line length + 70' for fittings in pump tank)

Design Head: 2 ft Elevation Head: 6 ft

Total Head: 9.46 ft Pump to Deliver: 20.20 gals/min at 9.46 ft head

Dosing Volume: 182 gals,

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

**TAP CHART**

Benchmark	0	is = 100.00	set at					Design Head:	2				
Pump tank elev.	line	color	rod read	Elevation	Pump elev.	length	hole size	flow/tap	Manifold elev.	trench area	LINE LTAR	# of Panels (PPBPS)	Change in Spacing of Panels (in)
	1	Blue	8.00	92.00	200	1/2in SCH 40	10.10	240.00	93.00	600	0.4000		
	2	Orange	7.50	92.50	200	1/2in SCH 40	10.10	240.00		600	0.4000		
				Total Feet =	400	gal/min =	20.20			LTAR =	0.4000		
				Feet Required =	300	Velocity =	1.93			(ltar + 5%)	0.4200		
						Des. Flow	480			(ltar w/25% red)	0.5333		
						Pump Run=	23.76			(ltar + 5%)	0.5600		
						Tank Gal/IN	21.4						
						Elev. Head	6						
Total # of Panels (PPBPS)													
% of Dose Vol.													
Dose Volume													
Dose Pump Time													
Drawdown in Inches													
Comments:													



# 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).**

<b>PRODUCER</b> Wade Associates, LLC 250 Pollock St.  New Bern NC 28560	<b>CONTACT NAME:</b> Angela Sensenig <b>PHONE (A/C, No, Ext):</b> (252) 631-5269 <b>FAX (A/C, No):</b> (252) 649-2443 <b>E-MAIL ADDRESS:</b> asensenig@wadeict.com
<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURER A:</b> Markel Insurance Company	
<b>NAIC #</b> 38970	
<b>INSURED</b>	
Alex Adams, DBA: Adams Soil Consulting 1676 Mitchell Rd.  Angier NC 27501	
<b>INSURER B:</b>	
<b>INSURER C:</b>	
<b>INSURER D:</b>	
<b>INSURER E:</b>	
<b>INSURER F:</b>	

**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												
	<b>COMMERCIAL GENERAL LIABILITY</b> <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 \$ \$												
	<b>AUTOMOBILE LIABILITY</b> <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) \$ \$												
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED    RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$												
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> 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				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;">PER STATUTE</td> <td style="width: 50%;">OTH-ER</td> </tr> <tr> <td>E.L. EACH ACCIDENT</td> <td></td> <td>\$</td> </tr> <tr> <td>E.L. DISEASE - EA EMPLOYEE</td> <td></td> <td>\$</td> </tr> <tr> <td>E.L. DISEASE - POLICY LIMIT</td> <td></td> <td>\$</td> </tr> </table>		PER STATUTE	OTH-ER	E.L. EACH ACCIDENT		\$	E.L. DISEASE - EA EMPLOYEE		\$	E.L. DISEASE - POLICY LIMIT		\$
	PER STATUTE	OTH-ER																	
E.L. EACH ACCIDENT		\$																	
E.L. DISEASE - EA EMPLOYEE		\$																	
E.L. DISEASE - POLICY LIMIT		\$																	
<b>A</b>	<b>Errors &amp; Omissions</b>			MEO1118-06	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\***

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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