THOMAS ENGINEERING, PA

John G. Thomas, Professional Engineer

www.thomasengineeringpa.com 1316-B Commerce Drive Post Office Box 1309 New Bern, NC 28563 johnthomas@thomasengineeringpa.com P: 252.637.2727 F: 252.636.2448 **M**: 252.671.5855

Re: Engineered Option Permit Wastewater System

G.S. 130A-336.1 and 15A NCAC 18A .1971

Lot A-12 Carolina Seasons

361 Ponderosa Trail Cameron, NC 28326 Harnett County, NC PID: 9567-30-2261

Please be advised that Adams Homes, AEC, LLC, by <u>Shirley Macy, GM</u>, has reviewed the Engineer's Report as described in G.S. 130A-336.1(k)(1) and hereby accepts as described in G.S. 130A-336.1(k)(2) from Thomas Engineering, P. A., (John G. Thomas, PE), the wastewater system for the above referenced facility.

ADAMS HOMES AEC, LLC	
Shuly Macy G.M. 5-	8-24
NORTH CAROLINA COUNTY	
I, Posa Heynande? Blouds a Notary Public of the hereby certify that Shirter Hard personally apacknowledged the execution of the foregoing instrument.	he aforesaid County and State, peared before me this day and
Witness my hand and Notarial Seal, this the day of	May , 2024.
Dow of Kerends atte. NOTARY PUBLIC	Hernandon Andrew
My commission expires: <u>25 2717074</u>	My Comm. Exp. 05-27-2024
	County County



Note: new installer

ROY COOPER • Governor

KODY H. KINSLEY • Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

COMMON FORM FOR ENGINEERED OPTION PERMIT

LHD USE ONLY: Initial submittal of this NOI received	d:	by	
1			
PART 1: Notice of Intent to Construct (NOI) - Please	check all that apply		
✓ Single System	or Multiple Syst	ems	
	AND		
✓ New ☐ Expansion ☐ Relocation of all or pa	art of the Existing System	Relocation of Rep	air Area
Repair – LHD Permit Number	Repair – EOP/LSS COVID	19/AOWE Permit Numl	oer
1. Facility Owner's name: (Owner, Company Name	e, Utility, Partnership, Inc	lividual, etc.):	
Adams Homes AEC, LLC			
Mailing address: US Hwy 70 West	_{City:} Garner	state: NC	_{Zip:} 27529
Telephone number: 919-233-6747	E-mail Address: raleig	hpermits@adamsl	nomes.com
2. Professional Engineer (PE) name: John G. Tho	omas	License number: 010	147
Mailing address: P.O. Box 1309	_{City:} New Bern	State: NC_zi	_{p:} 28563
Telephone number: 252-637-2727	E-mail Address: johnth	omas@thomasengi	neeringpa.com
3. Licensed Soil Scientist (LSS) name: R. Haywo	ood Pittman II	License number: 126	2
Mailing address: 1073-1 Gregory Fork Road	I _{City:} Richland	s State: NC	_{Zip:} 28574
Telephone number: 910-324-2892	E-mail Address: pittma	ansoil@yahoo.com	
4. Licensed Geologist (LG) (if applicable) name:			
Mailing address:	City:	State:	Zip:
Telephone number:			
5. On-Site Wastewater Contractor name: Yellow	Dog Grading	License number: <u>462</u>	1
Mailing address: 2693 Mcdougald Road	_{City:} <u>Lillington</u>	state: NC	_ Zip: <u>27546</u>
Telephone number:910-890-0328			
6. Proof of Errors and Omissions or other appropr	iate liability insurance fo	the following persons i	s attached
that includes the name of the insurer, name of	the insured and the effec	tive dates of coverage:	
✓ PE ✓ LSS ☐ LG ✓ On-site W	astewater Contractor		
7. Property location (physical address, tax parcel i	dentification number or s	subdivision lot, block nu	mber of the
property to be permitted): 361 Ponderos	a Trail:PIN: 9567-3	30-2261: Lot 12: C	arolina Seaso

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF PUBLIC HEALTH



ROY COOPER • Governor

KODY H. KINSLEY • Secretary

HELEN WOLSTENHOLME • Interim Deputy Secretary for Health

MARK T. BENTON • Assistant Secretary for Public Health

Division of Public Health

COMMON FORM FOR ENGINEERED OPTION PERMIT

See Instructions for Use in Appendix A

Except for "Date received", this Section to be completed by the Professional Engineer licensed in accordance with G.S. 89C

LHD USE ONLY: Initial submittal of this NOI recei	eived: by
PART 1: Notice of Intent to Construct (NOI) - Plea	ease check all that apply
Single Syste	em or Multiple Systems
	AND
New Expansion Relocation of all or	r part of the Existing System Relocation of Repair Area
Repair – LHD Permit Number	Repair – EOP/LSS COVID 19/AOWE Permit Number
	me, Utility, Partnership, Individual, etc.): Adams Homes AEC, LLC.
Mailing address:140 US Hwy 70 West	City: Garner State: NC Zip: 27529
Telephone number: 919-233-6747	E-mail Address:raleighpermits@adamshomes.com
2. Professional Engineer (PE) name: John G. Th	homas License number: 010147
Mailing address: P.O. Box 1309	City: New Bern State: NC Zip: 28563
Telephone number:252-637-2727	E-mail Address:johnthomas@thomasengineeringpa.com
	wood Pittman II License number: 1262
Mailing address: 1073-1 Gregory Fork Road	City: Richlands State: NC Zip: 28574
Telephone number:910-324-2892	E-mail Address:pittmansoil@yahoo.com
4. Licensed Geologist (LG) (if applicable) name: _	License number:
	City: State: Zip:
Telephone number:	E-mail Address:
5. On-Site Wastewater Contractor name: Thornt	iton's Footings, Hauiling & Septic, INC. License number: 253
Mailing address: 3160A Vinson Road	City: Clayton State: NC Zip: 27527
	E-mail Address:thorntonshr@embarqmail.com
	opriate liability insurance for the following persons is attached that
includes the name of the insurer, name of the insu	
	Wastewater Contractor

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES \bullet DIVISION OF PUBLIC HEALTH

hereby submit this NOI prepared by Print Name of Licensed PE Print Name of Owner

pursuant to G.S. 130A-336.1.

Date

PART 3:

Authorization to Operate (ATO)

Signature of Owner

Engineer	Option	Permit	Common	Form

This section is for Owner use to either designate PE as their legal	representative or to self-submit the NOI.
Designation of Registered Professional Engineer as legal representa	tive of Owner for this Notice of Intent:
I,Adams Homes AEC, LLC. Shirley Macy 💪 📭 hereby designate _	John G. Thomas PE
Print Name of Owner	Print Name of Registered Professional Engineer
as my legal representative for purposes of this Notice of Intent pursu	ant to G.S. 130A-336.1.
- Shirter Man G.M.	10-25-23
Signature of Owner	Date
Owner self-submittal of NOI:	
l, hereby submit this NOI prepar	red by
Print Name of Owner	Print Name of Licensed PE
pursuant to G.S. 130A-336.1.	
Signature of Owner	Dote

LHD Reference:

NOTES:

LIABILITY: The Department, the Department's authorized agents, or local health departments shall have no liability for wastewater systems designed, constructed, and installed pursuant to an Engineer Option Permit [G.S. 130A-336.1(f)]

RIGHT OF ENTRY: The submittal of this Notice of Intent to Construct grants right of entry to the Local Health Department and the State to the referenced property.

ISSUANCE OF BUILDING PERMIT: Once the LHD deems that the Notice of Intent to Construct is complete via signature in the section below, the owner may apply to the local permitting agency for a permit for electrical, plumbing, heating, air conditioning or other construction, location, or relocation activity under any provision of general or special law pursuant to G.S. 130A-338.

wastewater systems designed, constructed, and installed pursuant to an Engineer Option Permit [G.S. 130A-336.1(f)]

of health departments shall have no liability for

The Department, the Department's author

THOM-11

OP ID: DS

ACORD'

CERTIFICATE OF LIABILITY INSURANCE

06/14/2023

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.

REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or 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
Robinson and Stith Insurance

252-633-1174

PAN (C. No. Ext): 252-633-1174

FAX (A.C. No. Ext): 252-633-1174

513 Pollock Street		E-MA ADDI	IL		1 (~0, 110).	
P. O. Box 177 New Bern, NC 28563		ADDI		UDEDIC ASSOCI	DING COVERAGE	NAIC#
Debra Strachan					ce Company	10677
			,	River Ins C	o Company	
INSURED		INSU	RER B: James	idver mis o		
Thomas Engineering, PA, PO Box 1309		เทรบ	RER C:			
New Bern, NC 28563-1309		INSU	RER D:	., .,		
		INSU	RER E :			
		บลท	RER F:			
CERTIFIC	CATE	NUMBER:			REVISION NUMBER:	
COVETOGEO			EN ISSUED TO	THE INSURE	D NAMED ABOVE FOR THE P	OLICY PERIOD
THIS IS TO CERTIFY THAT THE POLICIES OF INDICATED. NOTWITHSTANDING ANY REQUIR CERTIFICATE MAY BE ISSUED OR MAY PERIEXCLUSIONS AND CONDITIONS OF SUCH POLICI	CLIVIL	THE INCHEANCE ASSOCIATION BY	Y THE POLICIE REDUCED BY	S DESCRIBED PAID CLAIMS.	HEREIN IS SUBJECT TO AL	D WHICH THIS L THE TERMS,
	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
LIK	VVVD				EACH OCCURRENCE \$	2,000,000
		ECP0250395	05/01/2023	05/01/2024	DAMAGE TO RENTED PREMISES (Ea occurrence) \$	2,000,000
CLAIMS-MADE X OCCUR		LG: 0230333	1		MED EXP (Any one person) \$	10,000
					PERSONAL & ADV INJURY \$	2,000,000
						4,000,000
GEN'L AGGREGATE LIMIT APPLIES PER:						4,000,000
POLICY PRO- LOC					PRODUCTS - COMP/OP AGG \$	
OTHER:	ļ				COMBINED SINGLE LIMIT	1.000.000
A AUTOMOBILE LIABILITY				Ì	(Ea accident) \$	1,000,000
X ANY AUTO		EBA0087044	05/01/2023	05/01/2024	BODILY INJURY (Per person) \$	
OWNED SCHEDULED AUTOS ONLY					BODILY INJURY (Per accident) \$	
					PROPERTY DAMAGE (Per accident) \$	
HIRED AUTOS ONLY NON-OWNED AUTOS ONLY					s	
	1-				EACH OCCURRENCE \$	
UMBRELLA LIAB OCCUR					AGGREGATE \$	
EXCESS LIAB CLAIMS-MADE				ļ	s	
DED RETENTION\$	┼				X PER OTH-	
A WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N		EWC0318297 08	05/01/2023	05/01/2024		1,000,000
ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	.	EVVC0310237 00	00,0			1,000,000
(Mandatory in NH)					E.L. DISEASE - EA EMPLOYEE \$	1,000,000
If yes, describe under DESCRIPTION OF OPERATIONS below			07/00/0000	07/22/2022	EL DISEASE - POLICY LIMIT \$	1,000,000
B Errors & Omissions		00105540-1	07/22/2022	07/22/2023	Per Occur	1,000,000
		55. C.				
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORI	101. Additional Remarks Schedule, ma	y be attached if mo	re space is requir	red)	
l						
Holder is recognized as Loss payee as the	heir i	nterests may appear unde	r			
property/inland marine per the terms and	d cor	iditions of their signed				
agreement.						
CERTIFICATE HOLDER			NCELLATION			
OLIVIA IOVILLATION		FIRSTW1				
		si	HOULD ANY OF	THE ABOVE D	ESCRIBED POLICIES BE CANC EREOF, NOTICE WILL BE	DELIVERED IN
		A	CCORDANCE W	TH THE POLIC	CY PROVISIONS.	

First Western Bank & Trust dba First Wester Equp Finance

100 Prairie Center Dr

Eden Prairie, MN 55344

AUTHORIZED REPRESENTATIVE

Debra Strachan

NORTH CAROLINA FARM BUREAU MUTUAL INSURANCE COMPANY, INC.

CERTIFICATE OF LIABILITY INSURANCE

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).

INSURED

RONALD HAYWOOD PITTMAN II NAME AND DBA PITTMAN'S SOIL CONSULTING

ADDRESS

1003 GREGORY FORK RD RICHLANDS NC 28574

CERTIFICATE HOLDER

THOMAS ENGINEERING PA 1316-B COMMERCE DR

NEW BERN NC 28562

COVERAGES

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.

Т	CLUSIONS AND CONDITIONS OF SUCH I	l	SUBR		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	S
X			WVD				GENERAL AGGREGATE	\$
×	COMMERCIAL GENERAL LIABILITY - OCCURRENCE						PRODUCTS - COMP/OPS AGGREGATE	\$
							PERSONAL & ADV INJURY	\$
	GEN'L AGGREGATE APPLIES PER POLICY						EACH OCCURRENCE	\$
					Address of the state of the sta		DAMAGE TO RENTED PREMISES (Ea Occurrence)	\$
1]						MED EXP (Any one person)	\$
							EACH OCCURRENCE	\$
	BUSINESSOWNERS						AGGREGATE	\$
-			ļ				COMBINED SINGLE LIMIT (Each accident)	\$1,000,000
	AUTOMOBILE LIABILITY			BAP 2134903	7/14/2023	1/14/2024	BODILY INJURY (Per person)	\$
	SCHEDULED AUTOS						BODILY INJURY (Per accident)	\$
	HIRED AUTOS						PROPERTY DAMAGE (Per accident)	\$
	NON-OWNED AUTOS				es e que de la companya de la compan			
旦	GARAGE LIABILITY							
	(Other)						EACH OCCURRENCE	\$
	EXCESS LIABILITY - OCCURRENCE						AGGREGATE	\$
<u> </u>	OCCURRENCE						WC STATUTORY LIMITS	
\boxtimes	WORKERS COMPENSATION	N/A		WC 0243634	10/6/2022	10/6/2023	E.L. EACH ACCIDENT	\$500,000
	AND EMPLOYERS' LIABILITY						E.L. DISEASE - EA EMPLOYEE	\$500,000
	POLICY APPLIES TO THE WORKERS COMPENSATION LAW IN THE STATE OF NC						E.L. DISEASE - POLICY LIMIT	\$500,000
	OTHER:							

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES:

CANCELLATION

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

TW

DATE 7/27/2023

nya Woodard



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 5/22/2023

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 have ADDITIONAL INSURED provisions or be endorsed.

If SUBROGATION IS WAIVED, subject to the terms and conditions of the this certificate does not confer rights to the certificate holder in lieu of s	ne policy, certain policies may require an endorsement. A sta uch endorsement(s).	atement on
PRODUCER	CONTACT Rhonda Brooks, CISR	
Oakbridge Insurance Agency LLC 4011 Westchase Boulevard, Raleigh, NC 27607	(A/C, No, Ext); 9197415284 (A/C, No):	
120	E-MAIL ADDRESS: rhonda@pittgroupllc.com	
Raleigh NC 27607	INSURER(S) AFFORDING COVERAGE	NAIC#
	INSURER A: Firstline Insurance Company	40100
INSURED THORPLU-01	INSURER B: Harford Mutual Insurance Company	14141
Thornton's Plumbing, Inc. & Thornton's Footings, Hauling And Septic	INSURER c: Builders Premier Insurance Company	13036
Inc 3160A Vinson Rd	INSURER D:	
Clayton 27527	INSURER E:	
·	INSURER F:	
COVERAGES CERTIFICATE NUMBER: 108832142	REVISION NUMBER:	
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HA	OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO V	which inio
OFFICIAL MAY BE ISSUED OR MAY PERTAIN THE INSURANCE AFFORD	DED BY THE BOTICIES DESCRIBED HEKEIN IS SOBJECT TO ALT I	HE TERMS,
EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE	POLICY EFF POLICY EXP	
INSR TYPE OF INSURANCE INSD WVD POLICY NUMBER	(MM/DD/YYYY) (MM/DD/YYYY) LIMITS	
MP10804025	5/26/2023 5/26/2024 EACH OCCURRENCE \$1,000,	.000

ISR TR		TYPE OF INSURANCE	ADDL S	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	5
A.	Х	COMMERCIAL GENERAL LIABILITY	11100	 MP10804025	5/26/2023	5/26/2024	EACH OCCURRENCE	\$1,000,000
		CLAIMS-MADE X OCCUR					DAMAGE TO RENTED PREMISES (Ea occurrence)	\$100,000
							MED EXP (Any one person)	\$ 5,000
							PERSONAL & ADV INJURY	\$ 1,000,000
		I'L AGGREGATE LIMIT APPLIES PER:					GENERAL AGGREGATE	\$ 2,000,000
	GEN	POLICY X PRO- X LOC					PRODUCTS - COMP/OP AGG	\$ 2,000,000
ł								\$
A	AUT	OTHER: OMOBILE LIABILITY		CA10803332	5/26/2023	5/26/2024	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	Х	ANY AUTO					BODILY INJURY (Per person)	\$
	$\stackrel{\sim}{-}$	OWNED SCHEDULED					BODILY INJURY (Per accident)	\$
	Х	AUTOS ONLY HIRED AUTOS ONLY AUTOS ONLY					PROPERTY DAMAGE (Per accident)	\$
	$\stackrel{\sim}{-}$	AUTOS ONLY AUTOS ONLY						\$
В	Х	UMBRELLA LIAB X OCCUR		CU10815458	5/26/2023	5/26/2024	EACH OCCURRENCE	\$ 5,000,000
		EXCESS LIAB CLAIMS-MADE					AGGREGATE	\$5,000,000
		DED X RETENTION\$ 10 000	ĺ					\$
		RKERS COMPENSATION		 PWC1016269	5/26/2023	5/26/2024	X PER X OTH-	
		EMPLOYERS' LIABILITY PROPRIETOR/PARTNER/EXECUTIVE N					E.L. EACH ACCIDENT	\$1,000,000
	OFF	PROPRIETOR/PARTNEWEXECUTIVE N CER/MEMBER EXCLUDED?	N/A				E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
	If yes	s, describe under CRIPTION OF OPERATIONS below					E.L. DISEASE - POLICY LIMIT	\$1,000,000
_								

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

CERTIFICATE HOLDER	CANCELLATION
Thomas Engineering, PA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
PO Box 1309	AUTHORIZED REPRESENTATIVE
New Bern NC 28563	Afronda Buska
	CARROLL AND CORPORATION AND ALL AND

| State | Stat

1738 MIS 1474

BRACKEN & ASSOCIATES ...
... ENGINEERS & SURVEYORS ...
IIIO WOODLAND AVE.
SANFORD, N. C. 27330

P.A.

CAROLINA SEASONS
VAN GROCE
PO.Box 2825
SANFORD, N.C.

40-1910-3356-50 9,4 91 YUF.
1890-4556-60 myt.
1890-4556-60 myt.
1890-4556-60 myt.

Comments of the second PARITION OF BUSINESS AND STATES A

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4, 1996

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FUTURE DEVELOPMENT

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GOLF COURSE

CURVE 40

Leady to be to the state of the

C - 5689



LEGEND

AC=AR CONDITIONING UNIT

BCC=BACK OF CURB

DW=CONC DRIVEWAY

EB=ELECTRIC BOX

EOP=EDEC OF PAVEMENT

P=PATIO

PO=PORCH

SCO=CLEANOUT

SW=SIDEWALK

IP-TELEPHONE PEDESTAL

WM=WATER METER

O IRON PIPE FOUND

IRON PIPE SET

NAIL SET



THIS EXHIBIT MAP IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

DB FLOYD, PLS L-3640

DATE

THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP IS NOT FOR RECORDATION. NO TITLE REPORT PROVIDED.

THIS MAP MAY NOT BE A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS AND HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH RECORDING REQUIREMENTS FOR PLATS.

1.ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.

2. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.

3.LINES NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS SURVEY,

4.PROPERTY MAY BE SUBJECT TO ANY/ALL EASEMENTS AND RESTRICTIONS OF RECORD. THIS SURVEY IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND OR DEEDED AND HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. A NORTH CAROLINA LICENSED ATTORNEY—AT—LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH AND LOCATION OF EASEMENTS, AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.

5.DRIVEWAY IMPERVIOUS CALCULATION SHOWN HEREON CALCULATED TO THE FRONT PROPERTY LINE/RIGHT-OF-WAY.

6.THIS PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AS INDICATED ON CID NO. 370328 PANEL 95-66, SUFFIX L HARNETT COUNTY WITH AN EFFECTIVE DATE OF 10/17/2006.

VICINITY MAP (MTS)

SETBACKS PER PC E PG 85-C

FRONT SIDE REAR 35' 10' 25'

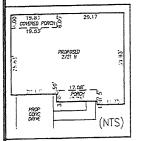
AR 25° IMPERVIOUS AREA

HOUSE DRIVE TO R/W

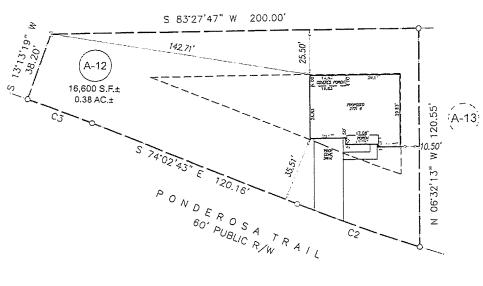
1,828 SQ.FT. 679 SQ.FT. 90 SQ.FT.

WALK TOTAL

2,597 SQ.FT.



GOLF COURSE



GRAPHIC SCALE

40 0 20

1 inch = 40 ft.

PRELIMINARY PLOT PLAN

FOR
ADAMS RALEIGH
361 PONDEROSA TRAIL
LOT A-12 CAROLINA SEASONS SUBDIVISION
JOHNSONVILLE TWP., HARNETT CO., NC
P.C. E, PG. 85-C



IORD LENGTH

THOM-11

OP ID: DS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 04/22/2024

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 have ADDITIONAL INSURED provisions or be endorsed.

lf ti	SUBROGATION IS WAIVED, subject nis certificate does not confer rights t	to the	ne tei	rms and conditions of th	e polic	y, certain po	olicies may r	equire an endorsement	. A st	atement on
PRO Rob 513 P. C	DUCER inson and Stith Insurance Pollock Street D. Box 177	<u> </u>		-633-1174	CONTA	ст _{э, Ext):} 252-63		FAX (A/C, No): ²	252-63	33-5429
Nev	≀ Bern, NC 28563 ∍ra Strachan						JRER(S) AFFORI	DING COVERAGE		NAIC#
					INSURE	RA: Cincinn	ati Insuran	ce Company		10677
ŢŅSI	IRED mas Engineering, PA,				INSURE	RB:James	River Ins C	0		
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Nev	/ Bern, NC 28563-1309				INSURE	RD:				
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co	VERAGES CER	TIFIC	CATE	NUMBER:				REVISION NUMBER:		
IN C	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY RI ERTIFICATE MAY BE ISSUED OR MAY XCLUSIONS AND CONDITIONS OF SUCH	EQUIP PERT POLI	REME AIN, CIES.	NT, TERM OR CONDITION THE INSURANCE AFFORD LIMITS SHOWN MAY HAVE	OF AN' ED BY	Y CONTRACT THE POLICIES REDUCED BY	OR OTHER I S DESCRIBEI PAID CLAIMS.	DOCUMENT WITH RESPECT TO HEREIN IS SUBJECT TO	OT TO	WHICH THIS
INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	3	
Α	X COMMERCIAL GENERAL LIABILITY			Marine Marine (1) (1) (1) (1)				EACH OCCURRENCE	\$	2,000,000
	CLAIMS-MADE X OCCUR			ECP0250395		05/01/2024	05/01/2025	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	2,000,000
				ę				MED EXP (Any one person)	\$	10,000
				 				PERSONAL & ADV INJURY	\$	2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	4,000,000
	POLICY PRO- LOC							PRODUCTS - COMP/OP AGG	\$	4,000,000
	OTHER:								\$	
Α	AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT (Ea accident)	\$	1,000,000
	X ANY AUTO			EBA0087044		05/01/2024	05/01/2025	BODILY INJURY (Per person)	\$	
	OWNED SCHEDULED AUTOS ONLY							BODILY INJURY (Per accident)	\$	
	HIRED NON-OWNED AUTOS ONLY							PROPERTY DAMAGE (Per accident)	\$	
									\$	
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
	DED RETENTION\$								\$	
Α	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY							X PER STATUTE OTH-		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A	***************************************	EWC0318297 09		05/01/2024	05/01/2025	E.L. EACH ACCIDENT	\$	1,000,000
	(Mandatory in NH)			•				E.L. DISEASE - EA EMPLOYEE	\$	1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below								\$	1,000,000
В	Errors & Omissions			00105540-3		07/22/2023	07/22/2024	Per Ocurr		1,000,000
								Aggregate		1,000,000
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (A	ACORE	0 101, Additional Remarks Schedu	ile, may b	e attached if mor	e space is requir	ed)		
CF	RTIFICATE HOLDER				CANC	ELLATION				
	and the state of t			THOMA14						
	LR Thomas & Sons PO Box 1309				THE ACC	EXPIRATION ORDANCE WI	I DATE THE	ESCRIBED POLICIES BE CA EREOF, NOTICE WILL B LY PROVISIONS.		
	New Bern, NC 28563					RIZED REPRESE a Strachan	NIATIVE			

CERTIFICATE OF LIABILITY INSURANCE

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(les) 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).

INSURED

YELLOW DOG GRADING &

ADDRESS

NAME AND LANDSCAPING LLC 2693 MCDOUGALD RD

LILLINGTON NC 27546

CERTIFICATE THOMAS ENGINEERING, PA

HOLDER

1316-B COMMERCE DR

PO BOX 1309

NEW BERN NC 28563

COVERAGES

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.

x	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	6
3	COMMERCIAL GENERAL LIABILITY		WVD	CPP 0135427	10/04/2023	10/04/2024	GENERAL AGGREGATE	\$1,000,000
-	- OCCURRENCE						PRODUCTS - COMP/OPS AGGREGATE	\$1,000,000
	GEN'L AGGREGATE APPLIES PER POLICY						PERSONAL & ADV INJURY	\$1,000,000
	GEN L AGGREGATE AFFEIES FER FOLIOT						EACH OCCURRENCE	\$1,000,000
							DAMAGE TO RENTED PREMISES (Ea Occurrence)	\$100,000
							MED EXP (Any one person)	\$5,000
1							EACH OCCURRENCE	\$
	BUSINESSOWNERS						AGGREGATE	\$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Each accident)	\$500,000
1	SCHEDULED AUTOS		E	BAP 2166556	02/13/2024	08/13/2024	BODILY INJURY (Per person)	\$
1	HIRED AUTOS						BODILY INJURY (Per accident)	\$
3	NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	\$
]	GARAGE LIABILITY							
]	(Other)							
							EACH OCCURRENCE	\$
]	EXCESS LIABILITY - OCCURRENCE						AGGREGATE	\$
-	COCOMMENT						WC STATUTORY LIMITS	
]	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	N/A		WC 0248742	02/11/2024	02/11/2025	E.L. EACH ACCIDENT	\$100,000
							E.L. DISEASE - EA EMPLOYEE	\$100,000
	POLICY APPLIES TO THE WORKERS COMPENSATION LAW IN THE STATE OF NC						E.L. DISEASE - POLICY LIMIT	\$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES:

0	۸	M	0	FI	ı	Δ	T	n	N

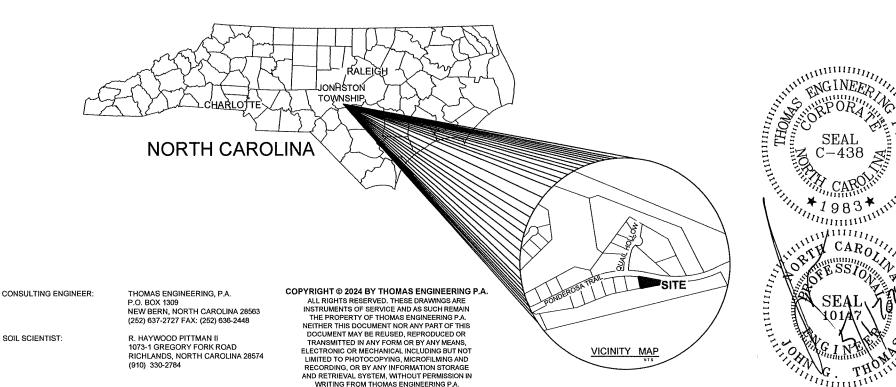
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

DATE 03/27/2024

SINGLE FAMILY RESIDENCE **ONSITE WASTEWATER SYSTEM FOR** LOT A - 12 CAROLINA SEASONS SUBDIVISION

JOHNSONVILLE TOWNSHIP HARNETT COUNTY - NORTH CAROLINA



SCHEDULE OF DRAWINGS

SHEET	TILE
1	COVER
2	SITE PLAN
3	TANK & D-BOX
4-5	DISPOSAL SYSTEM LAYOUT
6	SPECIFICATIONS
7	OPERATION & MAINTENANCE
8	DESIGN CALCULATIONS
9	SOIL EVALUATION
10	CONTRACTOR'S STATEMENT
	ENGINEER'S CERTIFICATE

RECORD DRAWINGS

COVER SHEET

CAROLINA SEASONS LOT A - 12

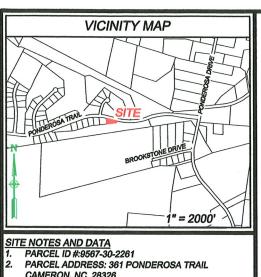
SINGLE FAMILY RESIDENCE

JOHNSONVILLE TOWNSHIP HARNETT COUNTY NORTH CAROLINA

ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SCALE: N.T.S.	DATE: 02/19/2024			
PROJECT #: 2023 029	SHEET: 1 of 10			

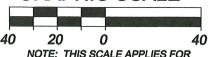
ONSITE WASTEWATER SYSTEM OWNER



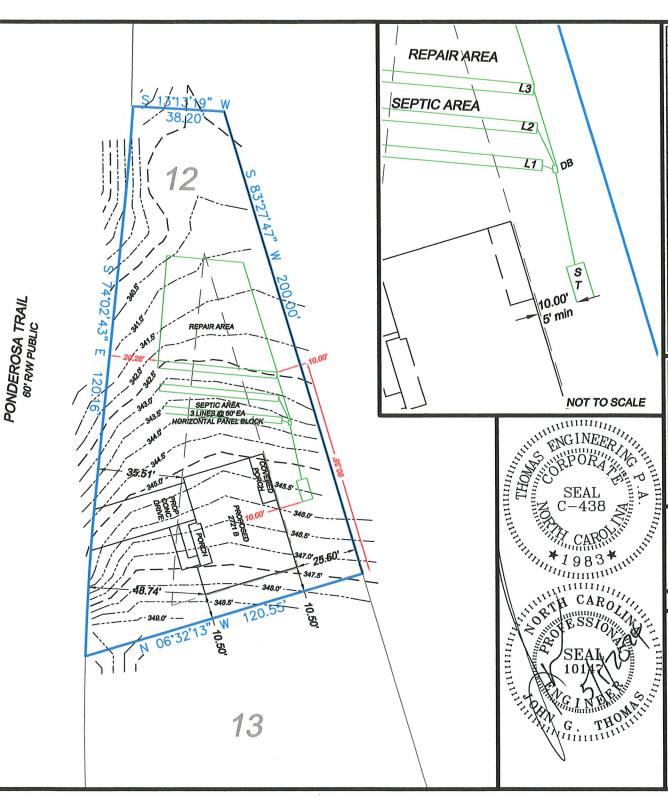
- CAMERON, NC 28326
- **EASEMENTS:**
- a) AS SHOWN ON PLAT
- MINIMUM BUILDING SETBACKS AREA AS SHOWN.
- MAP REFERENCE:
 - CAROLINA SEASONS SECTION ONE PLAT/MAP BOOK: E, PAGES: 85 C
- IN ACCORDANCE WITH FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NUMBER 3710956600J, DATED 10/03/2006, LOT 12 IS NOT LOCATED IN A FLOOD ZONE (ZONE X). THIS REPORT IN NO WAY SUPERCEDES THE ABOVE REFERENCED F.I.R.M.
- **ELEVATION DATUM: NAVD 88**
- WATER SERVICE PROVIDED BY NORTHERN NASH.
- SEWER SERVICE PROVIDED BY INDIVIDUAL SEPTIC SYSTEM.
- AFTER INSTALLATION THE SITE SHOULD BE LANDSCAPED TO SHED SURFACE WATER, ANY ALTERATIONS TO THE SITE MAY IMPACT SOIL CONDITIONS.

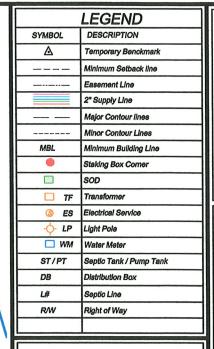


SCALE 1" = 40' GRAPHIC SCALE



NOTE: THIS SCALE APPLIES FOR 8.5" X 14" SHEETS ONLY.





1316-B Col P.O. Box 1.

S ENGINEERING, ring-land development

THOMAS civil engineering

L3

12

L1

OB

√5' min

NOT TO SCALE

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Know what's **below.**Call before you dig.

RECORD DRAWINGS

SITE PLAN

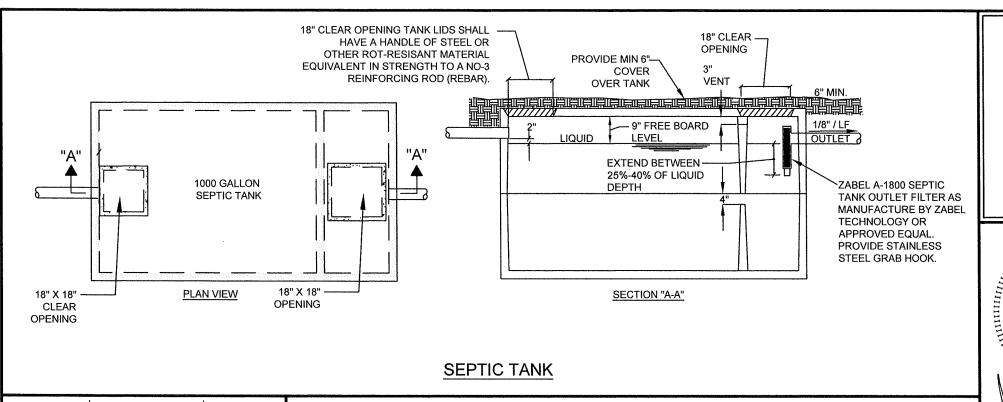
CAROLINA SEASONS LOT A - 12

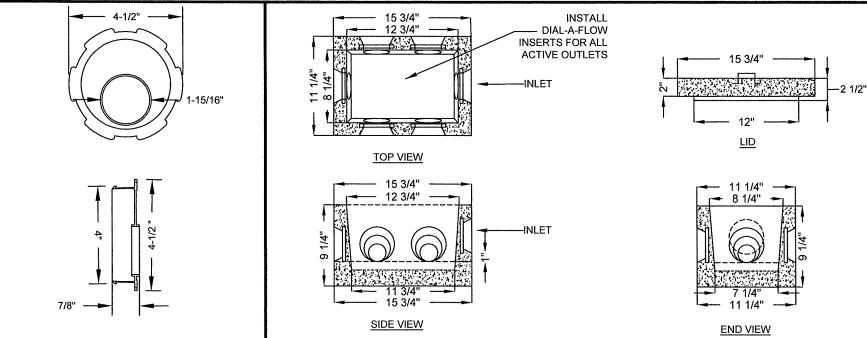
SINGLE FAMILY RESIDENCE ONSITE WASTEWATER SYSTEM

JOHNSONVILLE TOWNSHIP HARNETT COUNTY NORTH CAROLINA

OWNER ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SCALE: N.T.S.	DATE: 02/19/2024			
PROJECT #: 2023_029	SHEET: 2 of 10			





DISTRIBUTION BOX

DIAL-A-FLOW REGULATOR (TYP.)

OWNER ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

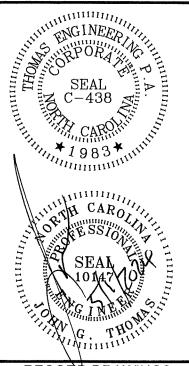
SOIL SCIENTIST R. HAYWOOD PITMAN II 1073-1 GREGORY FORK ROAD RICHLANDS, NORTH CAROLINA 28574

PROFESSIONAL ENGINEER THOMAS ENGINEERING PA. JOHN G. THOMAS

1316-B Commerce Drive, Ne P.O. Box 1309, New Bern, N www.ThomasEngin Office: 252.637.2727 F

THOMAS ENGINEERING, PA est 1983 civil engineering-land development-project management

P.O. BOX 1309 NEW BERN, NORTH CAROLINA 28563



RECORD DRAWINGS

TANK & DISTRIBUTION BOX

CAROLINA SEASONS LOT A - 12

SINGLE FAMILY RESIDENCE **ONSITE WASTEWATER SYSTEM**

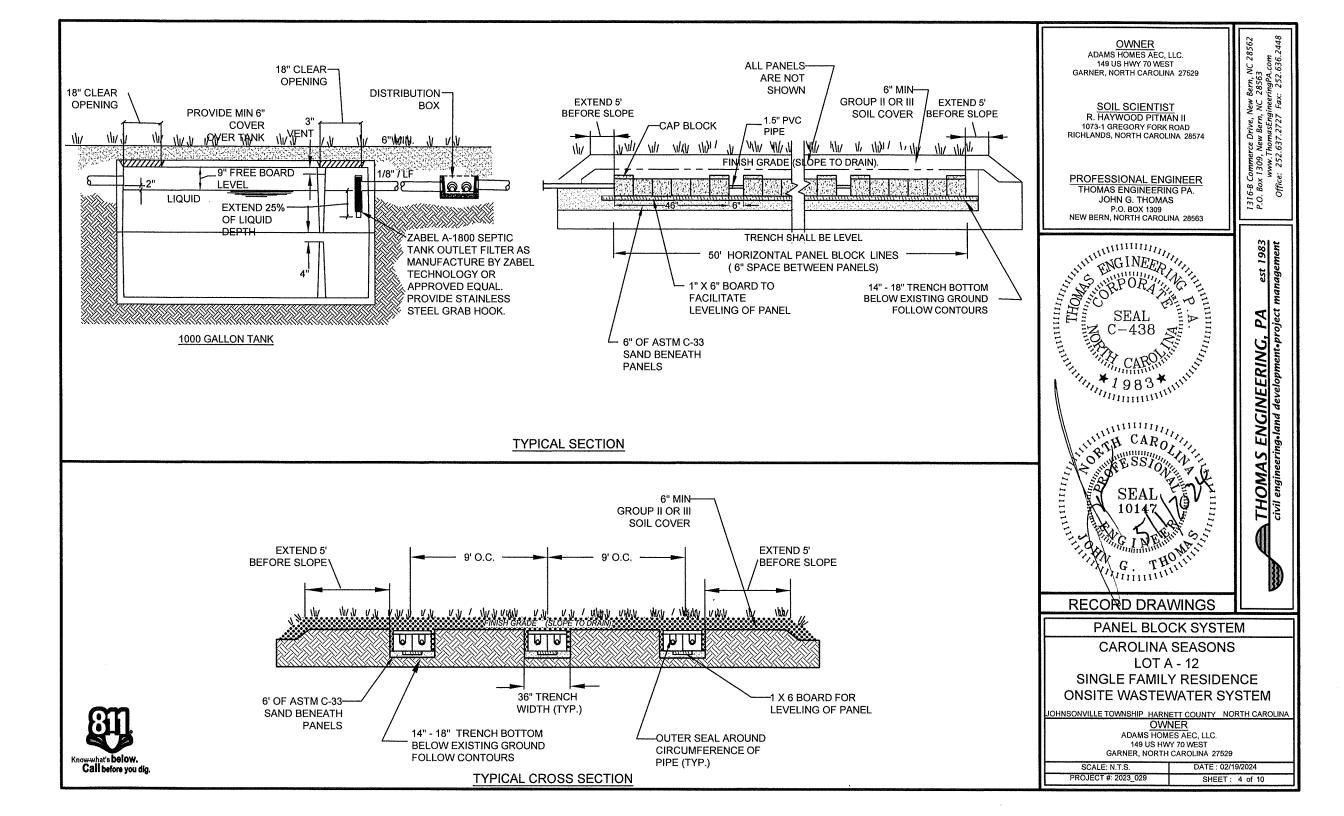
DHNSONVILLE TOWNSHIP HARNETT COUNTY NORTH CAROLINA

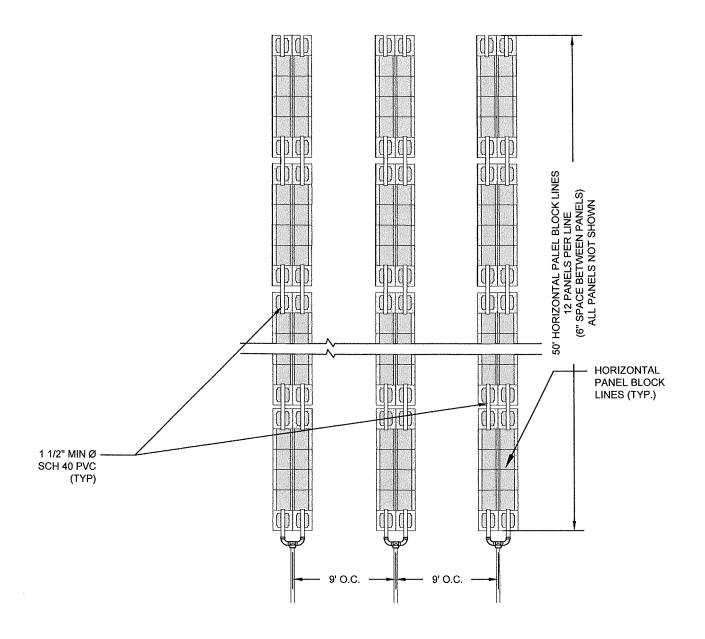
OWNER ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SCALE: N.T.S. DATE: 02/19/2024 PROJECT #: 2023_029 SHEET: 3 of 10

Know what's below.

Call before you dig.







OWNER

ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SOIL SCIENTIST R. HAYWOOD PITMAN II 1073-1 GREGORY FORK ROAD RICHLANDS, NORTH CAROLINA 28574 1316-B Commerce Drive, New Bern, NC 28562 P.O. Box 1309, New Bern, NC 28563 www.ThomasEngineeringPA.com Office: 252.637.2727 Fax: 252.636.2448

THOMAS ENGINEERING, PA est 1983 civil engineering-land development-project management

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P.O. BOX 1309 NEW BERN, NORTH CAROLINA 28563

SEAL C-438 WHITTHIN THE CAROLLE IN 1983 THE INTERNATIONAL THE INTE

RECORD DRAWINGS

HORIZONTAL PANEL BLOCK

CAROLINA SEASONS LOT A - 12

SINGLE FAMILY RESIDENCE **ONSITE WASTEWATER SYSTEM**

JOHNSONVILLE TOWNSHIP HARNETT COUNTY NORTH CAROLINA

OWNER
ADAMS HOMES AEC, LLC.
149 US HWY 70 WEST
GARNER, NORTH CAROLINA 27529

DATE: 02/19/2024 SCALE: N.T.S. PROJECT #: 2023_029 SHEET: 5 of 10

SPECIFICATIONS

- SEPTIC TANKS SHALL MEET THE MINIMUM STANDARDS OF DESIGN AND CONSTRUCTION AS REQUIRED BY NORTH CAROLINA ADMINISTRATIVE CODE 15A. 18A. 1954 ENTITLED "MINIMUM STANDARDS FOR PRECAST REINFORCED CONCRETE TANKS".
- 2. SEPTIC TANKS SHALL BE INSTALLED LEVEL.
- 3. THE EFFLUENT FILTER SHALL BE ZABEL A-1800 AS MANUFACTURED BY ZABEL ENVIRONMENTAL TECHNOLOGY OR APPROVED EQUAL. A STAINLESS STEEL GRAB HOOK SHALL BE PROVIDED.
- 4. DISTRIBUTION BOXES SHALL BE MANUFACTURER OUT OF CONCRETE AND SHALL MEET THE STANDARDS OF NORTH CAROLINA ADMINISTRATIVE CODE 15A. 19A. 1955(J). DIAL-A-FLOW INSERTS SHALL BE USED TO LEVEL AND EQUALIZE THE EFFLUENT FLOW TO EACH DRAIN LINE. THE DISTRIBUTION BOXES SHALL BE INSTALLED LEVEL.
- 5. ALL PIPING SHALL BE SCHEDULE 40 PVC AND INSTALLED AT A MINIMUM SLOPE OF 1/8" PER FOOT.
- ALL CONNECTING PIPING BETWEEN THE SEPTIC TANK, DISTRIBUTION BOXES, AND DRAIN LINES SHALL BE WATER TIGHT.
- 7. THE DISPOSAL SYSTEM IS A HORIZONTAL PANEL BLOCK SEWAGE EFFLUENT SUBSURFACE DISPOSAL SYSTEM.
 - a. HORIZONTAL PANEL BLOCK USED IN NITRIFICATION TRENCHES SHALL BE INSTALLED ACCORDING TO THE MINIMUM AND MAXIMUM DIMENSIONS IN TABLE VI. B OF THE ABOVE DOCUMENT. INSTALLATION FOR MULTIPLE LINE SYSTEMS SHALL BEGIN IN THE MOST CONFINING AREA AND WORKED TO THE MORE OPEN AREAS.
 - b. THE INLET TO THE HORIZONTAL PANEL BLOCK SHALL BE IN THE UPPERMOST PORTION OF THE BEGINNING PANEL BLOCK WITH CAP CLOSEST TO THE TANK.
 - C. BACKFILL SHALL BE PLACED BENEATH THE PANELS THE WIDTH OF THE TRENCH TO A MINIMUM THICKNESS OF 6 INCHES AND SHALL ALSO BE PLACED BETWEEN THE TRENCH AND HORIZONTAL PANEL BLOCK SIDEWALL TO A MINIMUM COMPACTED (CAREFULLY WALKED IN) HEIGHT THAT IS EQUAL TO THE TOP OF THE HORIZONTAL PANEL BLOCK PLUS 6" MINIMUM SOIL CAP. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.BACKFILL SAND MATERIAL SHALL BE A CLEAN, SCREENED, MEDIUM-GRADE SAND THAT IS NATURALLY CCURRING. ACCEPTABLE SANDS ARE SANDS THAT ARE SUITABLE FOR THE PRODUCTION OF READY-MIX CONCRETE AND CLEAN OF ORGANIC DEBRIS AND STONE. IN TRUE GROUP I SOILS, PANELS CAN BE INSTALLED DIRECTLY ON THE TRENCH BOTTOM (WHEN SOIL DEPTH IS LIMITED). ADDITIONAL BACKFILL SAND USED DURING INSTALLATION SHOULD MEET GRADE AND SPECS AS LISTED. PRODUCT DESCRIPTION INCLUDES, BUT IS NOT LIMITED TO: CONCRETE SAND, NC-2S SAND, ASTM C-33 SAND, FA-10 SAND AND GRADE "A" SAND. PRODUCT SUITABILITY IS AN IMPORTANT COMPONENT OF THE SYSTEM.
 - d. HORIZONTAL PANEL BLOCK SYSTEMS SHALL BE INSTALLED UTILIZING FOAM SEALERS, AS INDICATED ON THE DRAWINGS. INNER SEAL AND OUTER SEAL LOCATIONS AND PROCEDURES SHALL BE FOLLOWED.
 - e. VEHICULAR TRAFFIC OR CONSTRUCTION EQUIPMENT MAY TRAVERSE THE HORIZONTAL PANEL BLOCK SYSTEM ONLY WHEN THE LOAD IS BRIDGED OVER THE TRENCH SO AS NOT TO DISTURB THE PANEL BLOCKS. THE LOAD MAY BE BRIDGED WITH A MINIMUM OF 6 INCHES OF COMPACTED SOIL COVER OVER SHALLOW HORIZONTAL PANEL BLOCKS.
 - f. HORIZONTAL PANEL BLOCK TRENCHES SHALL BE CONSTRUCTED LEVEL IN ALL DIRECTIONS WITH A PLUS OR MINUS ONE-HALF-INCH TOLERANCE FROM SIDE-TO-SIDE AND MAXIMUM FALL IN A SINGLE TRENCH BOTTOM NOT EXCEEDING ONE-FOURTH INCH IN 10 FEET END-TO-END FOR ANY CONTINUOUS CONTOURED SEGMENT. TRENCHES SHALL FOLLOW THE CONTOUR OF THE GROUND SURFACE ELEVATION (UNIFORM DEPTH).
 - g. AFTER DETERMINATION OF THE EXISTING GRADE AND CONTOURS, USING THE LOWEST OR SHALLOWEST GRADE ON CONTOUR, ADD THE SPECIFIED TRENCH DEPTH. EXCAVATE THE TRENCH TO THE REQUIRED ELEVATION, CHECKING GRADE FREQUENTLY. RECOMMENDED TRENCH WIDTH FOR HORIZONTAL PANELS IS THREE (3) FEET WIDE AND SPACED AT NINE (9) FEET ON CENTER.
 - h. IF SMEARING OF A THE SIDE WALLS IS PRESENT (AS IS THE CASE IN MOST CLAY DOMINANT MINERALOGY), SIDE WALLS EFFECTED SHALL BE RAKED TO BRING THEM BACK TO ORIGINAL STRUCTURE. INSTALL A SIX (6) INCH LAYER OF APPROPRIATE BACKFILL SAND (NATURAL, CLEAN, SCREENED) IN THE THREE (3) FOOT WIDE TRENCH AND LEVEL TO SPECIFIED GRADE.
 - i. INSTALL 1X6 INCH BOARDS FLAT DOWN ALONG THE MIDDLE OF THE ENTIRE LENGTH OF THE TRENCH.

CHECK THE GRADE OF THE BOARDS BY SHOOTING THE GRADE OFF THE TOP OF THE BOARDS. ONCE GRADE BOARDS HAVE BEEN SET AND ESTABLISHED, PANELS MAY BE SET INTO THE TRENCH ON TOP OF THE BOARDS USING EQUIPMENT AND A LIFT CHAIN, OR IF NEED BE BY HAND. PANELS CAN BE PLACED ABOUT 6 INCHES APART. THIS SPACING CAN BE ADJUSTED TO ENSURE THE CORRECT NUMBER OF PANELS CAN BE PLACED INTO EACH NITRIFICATION LINE.

- AT THE BEGINNING OF EACH LINE, INSTALL AND ENTRY 'T' (FOR GRAVITY DISTRIBUTION) TO DIVIDE THE GRAVITY FLOW. AS CLOSE TO THE BEGINNING OF THE FIRST PANEL AS POSSIBLE.
- K. INSTALLATION OF AN APPROVED FOAM SEALER OR TAR SEAL ROPE SHALL BE PLACE IN THE BOTTOM OF THE 'U' OUTS FOR FOAM SEALS AROUND THE PIPE AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.. ONCE THE FOAM SEALER OR TAR SEAL ROPE IS IN PLACE, INSTALLATION OF THE PVC DISTRIBUTION PIPE(S) ALONG THE LENGTH OF THE TRENCH FROM PANEL TO PANEL SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS PER THE TYPE OF SYSTEM TO BE INSTALLED (GRAVITY/PRESSURE DISTRIBUTION).
- AFTER COMPLETION OF THE PIPE INSTALLATION, USING THE FOAM SEALER OR TAR SEAL ROPE, FORM A COMPLETE SEAL OF ALL OUTER CUTOUTS IN THE BLOCKS, AND INSURE THAT THE INNER SEALS ARE PARTIAL SEALS THAT DO NOT EXTEND OVER THE TOP OF THE PVC PIPE. AFTER COMPLETING THE INNER AND OUTER SEALS, PLACE A CAP BLOCK ON EACH END OF THE PANEL TO COVER ALL OPENINGS. THE CAP BLOCK WILL SERVE AS AN INSPECTION PORT IN THE FUTURE.
- m. USING THE SAME BACKFILL SAND AS USED IN THE TRENCH BOTTOM TO BACKFILL UP TO THE TOP OF THE PANEL BLOCK. THE SYSTEM IS NOW READY FOR FINAL INSPECTION. UPON FINAL INSPECTION, SOIL COVER IS TO BE ADDED OVER THE TOP OF THE PANEL BLOCK SYSTEM.
- n. HORIZONTAL PANEL BLOCK SYSTEMS INSTALLED ON A SLOPING SITE MAY USE DISTRIBUTION DEVICES OR STEP-DOWNS AS DESCRIBED IN 15A NCAC 18A. 1955(J) AND (L) WHEN IT IS NECESSARY TO CHANGE LEVEL NITRIFICATION LINE SEGMENTS FROM UPPER TO LOWER ELEVATIONS. HOWEVER, THE REQUIREMENT TO FULLY UTILIZE THE UPSTREAM NITRIFICATION TRENCH APPLIES TO AN ELEVATION AT LEAST EQUAL TO THE TOP OF THE HORIZONTAL PANEL BLOCKS.
- MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR THE APPLICABLE HORIZONTAL PANEL BLOCK SYSTEM USED IN SEPTIC TANK SYSTEMS SHALL BE FOLLOWED EXCEPT AS REQUIRED HEREIN OR 15A NCAC 18A 1900 FT SEQ.
- ALL HORIZONTAL PANEL BLOCK SYSTEMS SHALL BE INSTALLED BY A CONTRACTOR OR INSTALLER APPROPRIATELY CERTIFIED IN WRITING BY THE MANUFACTURER OR ITS AUTHORIZED REPRESENTATIVE.
- ALL HORIZONTAL PANEL BLOCK SYSTEMS SHALL BE INSTALLED WITH COMPATIBLE PANEL ENDS AT THE INLET AND DISTAL ENDS OF EACH ROW.

SPECIAL INSPECTIONS

- a. THE ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF THE START OF WORK.
- NO WORK SHALL BE COVERED UNTIL THE ENGINEER HAS INSPECTED THE WORK AND AUTHORIZES
 THE WORK TO BE IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
- c. ANY DISCREPANCIES IN THE COMPLETE WORK AT THE ENGINEER'S DESIGN SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- d. THE ENGINEER WILL PROVIDE SPECIAL INSPECTIONS ON A PERIODIC BASIS FOR OBSERVING THE CONSTRUCTION OF THE SYSTEM.
- e. NO TESTING WILL BE REQUIRED FOR THIS INSTALLATION.
- SEPTIC TANKS WILL BE CHECKED FOR SIZE AND QUALITY OF CONSTRUCTION. THE ENVIRONMENTAL HEALTH SERVICE APPROVAL NUMBER WILL BE VERIFIED.
- PIPE AT TANK SEALS WILL BE CHECKED FOR WATER TIGHTNESS.
- SUPPLY LINE PIPING WILL BE CHECKED FOR COMPLIANCE WITH MATERIALS SPECIFICATION AND MINIMUM GRADE.
- NITRIFICATION LINE TRENCH WILL BE CHECKED FOR PROPER GRADE AND INSTALLATION.
- j. ALL COMPONENTS WILL BE CHECKED FOR COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

OWNER

ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SOIL SCIENTIST
R. HAYWOOD PITMAN II
1073-1 GREGORY FORK ROAD
RICHLANDS, NORTH CAROLINA 28574

PROFESSIONAL ENGINEER
THOMAS ENGINEERING PA.
JOHN G. THOMAS
P.O. BOX 1309
NEW BERN, NORTH CAROLINA 28563

RECORD DRAWINGS

SPECIFICATIONS

CAROLINA SEASONS LOT A - 12

SINGLE FAMILY RESIDENCE ONSITE WASTEWATER SYSTEM

JOHNSONVILLE TOWNSHIP HARNETT COUNTY NORTH CAROLINA

OWNER

ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SCALE: N.T.S. DATE: 02/19/2024
PROJECT #: 2023_029 SHEET: 6 of 10

16-B Commerce Drive, New Bern, NC O. Box 1309, New Bern, NC 28563 www.ThomasEngineeringPA.co Office: 252.637.2727 Fax: 252.63

тападетеп

AS ENGINEERING, PA eering-land development-project

THOM/

OPERATION AND MAINTENANCE

- 1. THE PURPOSE OF THE OPERATION AND MAINTENANCE PLAN IS TO ENSURE THAT THE SYSTEM IS PROPERLY FUNCTIONING, TO MAXIMIZE SYSTEM RELIABILITY, AND TO ENSURE THAT THE SYSTEM MEETS ITS EXPECTED SERVICE LIFE AND DOES NOT REQUIRE UNNECESSARY AND EXCESSIVE REPAIRS. THIS SECTION INCLUDES INFORMATION ON PREVENTATIVE MAINTENANCE PROCEDURES AND INCLUDES A MAINTENANCE SCHEDULE FOR THE DESCRIBED TASKS.
- THE SYSTEM SHALL BE OPERATED IN ACCORDANCE WITH THE LAWS (ARTICLE 11 CHAPTER 130A OF THE GENERAL STATUTES OF NORTH CAROLINA) AND RULE (NORTH CAROLINA ADMINISTRATIVE CODE 15A. 18A. 1900) FOR SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
- 3. THE ISSUANCE OF THE "AUTHORIZATION TO OPERATE" THIS SYSTEM INDICATES ONLY THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH STATE REGULATIONS AND IN NO WAY, SHOULD BE TAKEN AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORILY FOR ANY GIVEN LENGTH OF TIME.
- 4. THE SYSTEM MUST BE OPERATED AND MAINTAINED IN A MANNER WHICH WILL NOT CREATE A PUBLIC HEALTH HAZARD OR NUISANCE BY DISCHARGING TO THE GROUND SURFACE, SURFACE WATERS, OR GROUND WATER AT ANY TIME DURING THE OPERATION OF THE SYSTEM.
- 5. THE OWNER OF THE SYSTEM SHALL KEEP THE PLUMBING SYSTEM IN THE FACILITY IN GOOD REPAIR AND ELIMINATE LEAKS, DRIPS, OR EXCESS FLOWS AS THEY ARE FOUND.
- ADEQUATE MEASURES SHALL BE TAKEN TO DIVERT STORM WATER OR ANY STANDING WATER FROM THE DISPOSAL FILED AREA.
- 7. THE OWNER/OPERATOR SHALL REPORT AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN 48 HOURS, TO THE COUNTY ENVIRONMENTAL HEALTH SECTION UPON FINDING THE SYSTEM IS MALFUNCTIONING (I.E. THE SURFACING OR BACK-UP OF EFFLUENT, OR THE DISCHARGING OF EFFLUENT DIRECTLY INTO THE GROUND WATER OR SURFACE WATERS) OR WHEN REPAIRS ARE NEEDED.
- KNOW WHERE ALL COMPONENTS OF THE SYSTEM ARE, SUCH AS CLEAN OUTS, SEPTIC TANK, DISTRIBUTION BOXES, SOIL ABSORPTION AREA, AND REPAIR AREA.
- DOMESTIC WASTE SHALL ONLY BE PUT INTO THE SYSTEM. TRASH ITEMS THAT SHOULD NOT GO INTO THE SYSTEM ARE CIGARETTE BUTTS, KITTY LITTER, HYGIENE PRODUCTS, TISSUES AND WIPES, FLUSHABLE WIPES, SANITARY NAPKINS, COTTON SWABS, COFFEE GROUNDS, DISPOSABLE DIAPERS, AND LEFT OVER MEDICINES. KITCHEN WASTE THAT SHOULD NOT GO INTO THE SYSTEM ARE COOKING OILS AND GROUND UP SOLIDS FROM A GARBAGE DISPOSAL, RESTRICT USE OF THE GARBAGE DISPOSAL WHEREAS IT ADDS SOLIDS TO THE SYSTEM. OTHER ITEMS THAT ARE HARMFUL TO THE SYSTEM ARE CHEMICALS, SUCH AS SOLVENTS, OILS, PAINTS, THINNERS, DISINFECTANTS, PESTICIDES, POISONS, AND OTHER SUBSTANCES.

- 10. IT IS RECOMMENDED THAT THE SEPTIC TANK SHALL BE CHECKED ANNUALLY AND PUMPED OUT AS NEEDED. WHEN THE BUILDUP OF SOLIDS IN THE TANK ARE 25-30% OF THE TANK VOLUME, THE TANK SHOULD BE PUMPED. GENERALLY, EVERY THREE TO FIVE YEARS, THE SEPTIC TANK MUST BE PUMPED TO REMOVE SLUDGE AND SCUM. A CONTRACTED PROFESSIONAL MUST BE HIRED TO CONDUCT THIS WORK. ALL SEWAGE SOLIDS GENERATED BY THE SEPTIC TANK WILL BE TRANSPORTED TO A PERMITTED TREATMENT FACILITY. THERE IS A POTENTIAL FOR ODORS WHEN SLUDGE IS PUMPED AND HAULED, AS ODORS ESCAPE FROM THE ACCESS PORTS THAT ARE OPENED DURING MAINTENANCE. AFTER THE TANK HAS BEEN PUMPED OUT, FILL THE TANK BACK UP WITH WATER TO ELIMINATE THE POSSIBILITY OF THE TANK FLOATING OUT OF THE GROUND. DO NOT ADD SEPTIC TANK ADDITIVES SUCH AS RID-X AND ROOT KILL FR TO THE SYSTEM.
- 11. THE SEPTIC TANK HAS AN EFFLUENT SCREEN THAT NEEDS TO BE CHECKED PERIODICALLY FOR CLOGGING, WHICH IF CLOGGED COULD CAUSE EFFLUENT TO BACK UP INTO THE HOUSE. THE SCREEN CAN BE ACCESSED THROUGH THE RISER ON THE OUTLET END OF THE TANK, LIFTED OUT, AND WASHED OFF DIRECTLY INTO THE TANK.
- 12. IN THE AREA OF THE DISPOSAL FIELD AND REPAIR AREA, MAINTAIN A GRASS COVER OVER THE AREA THAT WILL HELP EVAPORATE EFFLUENT AND RECYCLE NUTRIENTS, AS WELL AS PREVENT SOIL EROSION. DO NOT ALLOW TREES TO GROW IN THESE AREAS.
- 13. REDIRECT ROOF RUNOFF (GUTTERS AND DOWNSPOUTS) AWAY FROM THE DISPOSAL FIELD AND REPAIR AREAS.
- AVOID DRIVING ON THE SYSTEM AREA, INCLUDING THE SEPTIC TANK, DISPOSAL AREA, AND REPAIR AREA.
- 15. THE DISPOSAL AREA AND THE DESIGNATED REPAIR AREA (WHICH SHALL BE RESERVED FOR THE INSTALLATION OF AN ADDITIONAL DISPOSAL AREA) SHALL NOT BE COVERED WITH STRUCTURES OR IMPERVIOUS MATERIALS, INCLUDING ASPHALT, CONCRETE, OR GRAVEL.
- 16. THE DISPOSAL FIELD DOES NOT HAVE UNLIMITED CAPACITY. WITH ONSITE SYSTEMS, WATER CONSERVATION IS A MUST AND THE LIFE OF THE SYSTEM DEPENDS ON THIS. CHECK FOR AND FIX LEAKS PROMPTLY.

OWNER

ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SOIL SCIENTIST

R. HAYWOOD PITMAN II 1073-1 GREGORY FORK ROAD RICHLANDS, NORTH CAROLINA 28574

PROFESSIONAL ENGINEER

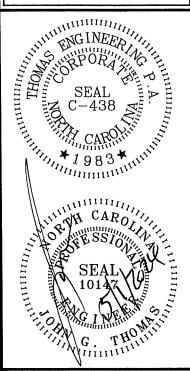
10-6 Commerce Drive, Ne O. Box 1309, New Bern, N www.ThomasEngir Office: 252.637.2727

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est 1983 management

THOMAS ENGINEERING, PA civil engineering-land development-project

THOMAS ENGINEERING PA.
JOHN G. THOMAS
P.O. BOX 1309
NEW BERN, NORTH CAROLINA 28563



RECORD DRAWINGS

OPERATION & MAINTENANCE

CAROLINA SEASONS

LOT A - 12

SINGLE FAMILY RESIDENCE

ONSITE WASTEWATER SYSTEM

JOHNSONVILLE TOWNSHIP HARNETT COUNTY NORTH CAROLINA

OWNER

ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SCALE: N.T.S. DATE : 02/19/2024
PROJECT #: 2023_029 SHEET : 7 of 10

DESIGN CALCULATIONS

- 1. <u>Daily Wastewater Flow</u> (Domestic) (15A NCAC 18A .1949(a))
- 2. System Components
 - a. 1 1000 gallon septic tank with effluent filter
 - b. 3 50 Horizontal Panel Block Lines
 - c. Septic Tank (15 A NCAC 18A .1952(b))
 - a. Design liquid capacity: minimum liquid capacity = 1000 gallons
 - b. Tank Buoyancy Check

Weight of tank per manufacturer: 7,400 lbs

Weight of soil over tank (minimum .5" cover):

(40 sf tank surface x 0.5 ft cover x 115 lbs/cf soil) = 2,300 lbs

Total weight = 9,700 lbs

Weight of water displaced: [(2 ft)(40 sf)][62.4 lbs/cf] = 4,992 lbs

The tank weighs more than the displaced water, therefore the tank will not float under the assumed conditions.

- 8. Initial Subsurface System (per attached Pittman Soil Report)
 - a. System Type: "Horizontal Panel Block" Septic System per On-site Water Protection Branch, Environmental Health Section.
 - b. System Classification: Type III (15A NCAC 18A .1961).
 - c. Long Term Loading Rate (LTAR): 0.4 gpd/sf
 - d. Total computed trench bottom area: 360 gpd /0.4 gpd/sf LTAR =900 sf
 - e. Required linear footage for Horizontal Panel Block System: (900 sf /3) .5 = 150 lf (3 lines @ 50 ft)
 - f. Panel Per Line (50' x 12") / 52 = 11.5 use12 panels per line with 6" space between each panel.
 - g. Trench Bottom Depth: 14 18 in.

6. Repair Area System

a. System Type: 1800' Anaerobic Drip

b. System Classification: Type: V

c. Long Term Loading Rate (LTAR): 0.2 gpd/sf

d. Trench Bottom Depth: 4 in.

OWNER

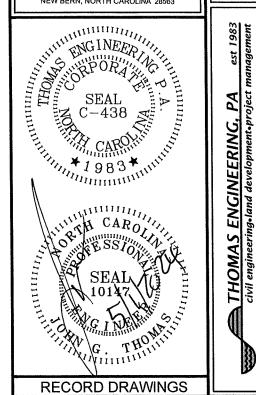
ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SOIL SCIENTIST

R. HAYWOOD PITMAN II

1073-1 GREGORY FORK ROAD
RICHLANDS, NORTH CAROLINA 28574

PROFESSIONAL ENGINEER
THOMAS ENGINEERING PA.
JOHN G. THOMAS
P.O. BOX 1309



DESIGN CALCULATIONS

CAROLINA SEASONS LOT A - 12 NGLE FAMILY RESIDENCE

SINGLE FAMILY RESIDENCE ONSITE WASTEWATER SYSTEM

OHNSONVILLE TOWNSHIP HARNETT COUNTY NORTH CAROLINA

OWNER

ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER NORTH CAROLINA 27

SCALE: N.T.S. DATE: 02/19/2024
PROJECT #: 2023_029 SHEET: 8 of 10

SOIL EVALUATION

Pittman Soil Consulting

1003 Gregory Fork Road Richlands, NC 28574 Phone (910)330-2784 pittmansoil@yahoo.com

NOVEMBER 3, 2023

Ref: CAROLINA SEASONS LOT A-12, 361 PONDEROSA TRAIL

A soil evaluation was conducted on the above referenced tract to determine the sites suitability for septic. The current laws and rules of NC was used as guide for this evaluation.

Hand Auger borings on the site were used to characterize the soil texture, structure, physical and chemical properties, and depth to the soil wetness condition. The attached plot plan shows the location of the stepite system in the most ideal location on the site. The soil wetness condition was found to be 26-30" from the surface with a clay loam texture. I have assigned an LTAR of 0.4 gpd/sqft for a 360 gpd 3 bedroom residence. This will require the installation of 3-50' horizontal panel block lines that shall be installed in accordance with the current rules. The depth to soil wetness of 26-30" would constitute a 14-18" trench bottom. The system will require 6" of Group II or III soil cover that shall extend 5' from the edge of the system. The system will require a 1000 gallon septic tank.

Soils in the repair area showed soil wetness at depths of 16" from the surface with a clay loam texture. The repair area will require 1800 SQFT anaerobic drip installed at 4" from the surface with an LTAR of 0.2 gpd/sqft.

After installation the site should be landscaped to shed surface water. Any alterations to the site may impact soil conditions. System shall not be installed in wet conditions.

If you have any questions please feel free to contact me at 910-330-2784. Thank You.

Sincerely



R. Haywood Pittman II NC Licensed Soil Scientist Owner: CAROLINA SEASONS

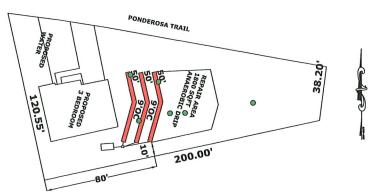
Address: LOT A-12

Location: 361 PONDEROSA TRAIL

PITTMAN SOIL CONSULTING PO BOX 1387 RICHLANDS, NC 28574

910-330-2784

pittmansoil@yahoo.com





INITIAL
3 BEDROOM
LTAR 0.4
3-50 HORIZONTAL PANEL BLOCK LINES
14-18* TRENCH BOTTOMS
>6* SOIL COVER REQUIRED OVER
SYSTEM AND 5' BEYOND SYSTEM

REPAIR AREA
3 BEDROOM
LTAR 2.2
1800 DOFT ANAEROBIC DRIP
4" TRENCH BOTTOMS
>6" SOIL COVER REQUIRED OVER
SYSTEM AND 5' BEYOND SYSTEM

APPROX SCALE 1"=40"

NOTE: EVALUATION INFORMATION IS AS PROVIDED ON THIS SHEET, AS PREPARED BY HAYWOOD PITTMAN OF PITTMAN SOIL CONSULTING PLS (L-1262), DATED NOVEMBER 3, 2023

OWNER

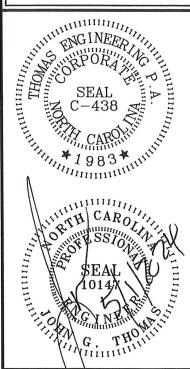
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SOIL SCIENTIST
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PROFESSIONAL ENGINEER
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NEW BERN, NORTH CAROLINA 28563

1316-B C P.O. Box

ENGINEERING,



RECORD DRAWINGS

SOIL EVALUATION

CAROLINA SEASONS LOT A - 12

SINGLE FAMILY RESIDENCE ONSITE WASTEWATER SYSTEM

JOHNSONVILLE TOWNSHIP HARNETT COUNTY NORTH CAROLINA

OWNER

ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SCALE: N.T.S. DATE : 02/19/2024
PROJECT #: 2023_029 SHEET : 9 of 10

CONTRACTOR STATEMENT / ENGINEER'S CERTIFICATE



THOMAS ENGINEERING, PA

John G. Thomas, Professional Engineer

Johnthomas@thomasengineeringpa.com P: 252.637.2727 F: 252.636.2448 M: 252.671.5855

www.thomasenglneeringpa.com 1316-B Commerce Drive Post Office Box 1309 New Bern, NC 28563

CONTRACTOR'S STATEMENT of RESPONSIBILITY

Re: Engineered Option Permit Wastewater System G.S. 130A-336.1 and 15A NCAC 18A.1971 Lot A-12 Carolina Seasons Subdivision 361 Ponderosa Trail, Johnsonville, NC Harnett County, NC

Please be advised that the undersigned for Yellow Dog Grading, Inc. has reviewed the plans and specifications as prepared by John G. Thomas, PE (Thomas Engineering, PA) for the referenced project, and as described in G.S. 130A-336.1e(4)a&b., hereby acknowledges awareness of the requirements for the installation of the referenced wastewater systems and special inspections.

Yellow Dog Grading, Inc.

Printed Name

M055

Signature

April 17 2024



THOMAS ENGINEERING, PA

Post Office Box 1309

New Bern, NC 28563

John G. Thomas, Professional Engineer

thomas@thomasengineeringpa.com P: 252.637.2727 F: 252.636.2448 M: 252.671.5855

ENGINEER'S CERTIFICATION & INSPECTION REPORT

"Final"

e: Engineered Option Permit Wastewater System G.S. 130A-336.1 and 15A NCAC 18A .1971 Lot A-12 Carolina Seasons 361 Ponderosa Trail Cameron, NC 28326 Harnett County, NC PID: 9567-30-2261

I, John G. Thomas, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe periodically the construction of the referenced project (see inspection record below), hereby state that, to the best of my abilities, due care and diligence was used in the observation of the project construction such that the construction was observed to be built to completion within substantial compliance and intent of the approved plans and specifications, and approved modifications of record.

Inspection Record

April 17, 2024 - Installation of system inspected with no corrections needed. May 01, 2024 - Final Inspection Post-Construction Conference Waived

Thomas Engineering, P.A. P.O. Box 1309 New Bern, N.C. 28563-1309 (252) 637-2727 (252) 636-2448

By: John G. Thomas, P.E.



Registration No. 10147

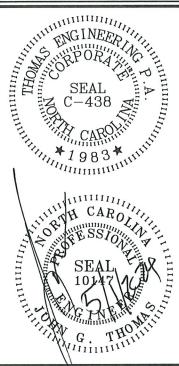
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SOIL SCIENTIST
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1073-1 GREGORY FORK ROAD
RICHLANDS, NORTH CAROLINA 28574

PROFESSIONAL ENGINEER THOMAS ENGINEERING PA. JOHN G. THOMAS P.O. BOX 1309Z

NEW BERN, NORTH CAROLINA 28563



RECORD DRAWINGS

CONTRACTOR'S STATEMENT / ENGINEER'S CERTIFICATE

CAROLINA SEASONS LOT A - 12 SINGLE FAMILY RESIDENCE ONSITE WASTEWATER SYSTEM

DHNSONVILLE TOWNSHIP HARNETT COUNTY NORTH CAROLINA

OWNER

ADAMS HOMES AEC, LLC. 149 US HWY 70 WEST GARNER, NORTH CAROLINA 27529

SCALE: N.T.S. DATE : 02/19/2024
PROJECT #: 2023_029 SHEET : 10 of 10