Permit #:	
remm #.	



ROY COOPER · Governor

KODY H. KINSLEY · Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

submittal Includes: (a2) Improvement Permit (a2) Construction Authorization Fee \$	
IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)	
County: Harnett	
PIN/Lot Identifier: 1507-46-3508	
ssued To: Syndicate Homes (Marchese)	
Property Location: Bryant Road - Erwin, NC (adjacent to 465 Bryant Road)	
subdivision (if applicable) N/All Lot #: 2 Block: Section:	
SS Report Provided: Yes 🗸 No 🗌	
f yes, name and license number of LSS: Alex Adams - LSS#1247	
New ✓ Expansion ☐ System Relocation ☐ Change of Use ☐	
Proposed Structure: Single Family	
Number of bedrooms: 3 Number of Occupants: 6 Other:	
Design Wastewater Strength: 🗹 domestic 🔲 high strength 🔲 industrial process	
Proposed Design Daily Flow: 360 GPD Proposed LTAR (Initial): .4 Proposed LTAR (Repair): .35	
Proposed Wastewater System Type*: Accepted Status (Initial) Pump Required: Yes No W May be requ	ired
Proposed Wastewater System Type*: Accepted Status (Repair) Pump Required: Ves No May be required.	red
Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)	
Saprolite System (initial): Yes V No Saprolite System (repair): Yes V No	
ill System (Initial): 🗌 Yes 🔽 No If yes, specify: 🔲 New 🔲 Existing (when adding more than 6 inches of fill to system area provide a fil	plan)
ill System (repair): 🗌 Yes 🕝 No If yes, specify: 🗋 New 🗎 Existing (when adding more than 6 inches of fill to system area provide a fil	l plan)
Jsable Soil Depth (Initial): 36 Usable Soil Depth (Repair): 34	
Max. Trench Depth (Initial)‡: 20 Max. Trench Depth (Repair)‡: 20 #Measured on the downhill side of the tr	ench
Artificial Drainage Required: Yes V No If yes, please specify details:	
ype of Water Supply: Private well Public well Shared well Municipal Supply Spring Other:	
Orainfield location meets requirements of Rule .1945: Yes 🗹 No 🗌 Drainfield location meets requirements of Rule .1950: Yes 🗹 No	o 🗌
Permit valid for: 🗹 Five years [site plan submitted pursuant to GS 130A-334(13a)] 🔲 No expiration [plat submitted pursuant to GS 130A-3	34(7a)]
Permit conditions: Initial System will need to be reflagged following vegetation clearing.	_
icensed Soil Scientist Print Name: Alex Adams	
icensed Soil Scientist Signature: Nex Adams Date: 12-03-24	

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

See attached site sketch

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



Permit #:	

This Section for Local Health Department Use Only

Initia	al submittal received:		by	
		Date	Initials	
G.S. 130A-335(a3) states the following:				
When an applicant for an Improvement Permit subsidepartment, the common form developed by the Dewithin five business days of receiving the application Permit includes all of the required components. If the shall notify the applicant of the components needed department to cure the deficiencies in the Improver is complete within five business days after the local act within any period set out in this subsection, the common form for use as the Improvement Permit.	epartment, and a soil evaluation, conduct a completeness revible local health department detail to complete the Improvement ment Permit. The local health discoult department receives the local health depart	on pursuant to subsite of the submitte ermines that the Int t Permit. The applice epartment shall me e additional inforn	ection (a2) of this section, the loc I. A determination of completene provement Permit is incomplete, cant may submit additional informate ake a final determination as to will nation from the applicant. If the lo	al health department shall, ss means that the Improvement the local health department nation to the local health hether the Improvement Permit ocal health department fails to
The review for completeness of this Impr Permit is determined to be:	rovement Permit was coi	nducted in acco	ordance with G.S. 130A-335	5(a3). This Improvement
☐ Incomplete (If box is checked, inform	nation in this section is re	equired.)		
The following items are missing:				
Copies of this were sent to the LSS and the)ate	_	
State Authorized Agent:			Date:	
Complete				
			201	
State Authorized Agent:			Date:	
This Improvement Permit is issued pursuattached here. The issuance of this perpermit holder is responsible for checking to revocation if the site plan, plat, or the ownership of the site. This permit is subdisposal and to the conditions of this permit is permit because the description of the permit is authorized to the description.	mit by the Health Depart g with appropriate gove e intended use changes. bject to compliance with ermit.	tment in no wa rning bodies in The Improven the provisions	by guarantees the issuance meeting their requirement ment Permit shall not be at s of the Laws and Rules for	of other permits. The nts. This permit is subject ffected by a change in Sewage Treatment and
any liabilities, duties, and responsibilitie evaluations, submittals, or actions from				
Improvement Permit Expiration Date: _				

See attached site sketch



Permit #:

Re-submittal of Improvement Permit

	LHD USE ONLY: This IP resubmittal received:	Date	bγ Initials	_
The following ite	ems are being resubmitted pursuant to G.S. 130A-	-335(a3) for issuance	of the Improvement Permi	it:
is accurate and co	hereby attest interest (Print Name) omplete to the best of my knowledge and that the aws, regulations, rules, and ordinances.		required to be included w ement Permit meets all ap	
Signature	of Licensed Soil Scientist	-	Date	
	The section below is for Local Health Department p Completeness Review of Improvemen	t Permit		
	ompleteness of this Improvement Permit re-subr rmit is determined to be:	nittai was conducted	in accordance with G.S. 1.	30A-335(a3). THIS
☐ Incomplete (If box is checked, information in this section is rems are missing:	equired.)		
·	ere sent to the LSS and the Applicant on	Date		
☐ Complete State Authorized	Agent:			



Permit #:	
-----------	--

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

County: Harnett
PIN/Lot Identifier: 1507-46-3508
ssued To: Syndicate Homes (Marchese)
Property Location: Bryant Road - Erwin, NC (adjacent to 465 Bryant Road)
AOWE/PE Plans/Evaluations Provided: Yes 🗹 No 🗌 If yes, name and license number of AOWE/PE: Alex Adams - AOWE#10021E
Facility Type: Single Family
✓ New
Basement? Yes V No Basement Fixtures? Yes V No
Type of Wastewater System* Accepted Status (Repa
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Design Daily Flow: 360 GPD Wastewater Strength: 🗹 domestic 🗌 high strength 🔲 industrial process
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? Yes Vifyes, please provide engineering documentation)
Installation Requirements/Conditions
Septic Tank Size: 1000 gallons Total Trench/Bed Length: 225 feet Trench/Bed Spacing: 9 feet on center
Trench/Bed Width: 36 inches LTAR: 4 gpd/ft ²
Soil Cover: 6 inches Slope Corrected Maximum Trench/Bed Depth‡: 20 inches * Measured on the downhill side of the trench
Aggregate Depth: 6 inches above pipe 6 inches below pipe 12 inches total
Pump Tank Size (if applicable): n/a gallons Requires more than 1 pump? Yes No
Pump Requirements: ft. TDH vs GPM Grease Trap Size (if applicable): gallons
Distribution Method: Serial D-Box or Parallel Pressure Manifold(s) LPP Other:
Artificial Drainage Required: Yes No 🗸 If yes, please specify details:
Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreement Required [.1937(h)]: Yes 🔽 No
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: 🗌 Yes 🔽 No
Declaration of Restrictive Covenants: Yes No
Pre-Construction Conference Required: Yes No 🗸
Conditions: No Foundation or Gutter Drains directed towards septic field.
Initial System will need to be reflagged following vegetation clearing.
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference
into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.
AOWE/PE Print Name: Alex Adams Expiration Date: 12-3-29
AOWE/PE Signature: Date: 12-3-24

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch



Permit #	
Permit #	:

This Section for Local Health Department Use Only

	Initial submittal received:	t	py
		Date	Initials
G.S. 130A-335(a5) states the follo	wing:		
Improvement Permit and Construction Au Department, and any necessary signed ar engineer or a person certified pursuant to department shall, within five business day the Construction Authorization or Improved etermines that the Construction Authoriapplicant of the components needed to conditional information to the local health Authorization. The local health department fails to act within five busing department fails to act within any period apply for the building permit for the project Authorization by the local health department fails to act within any period apply for the building permit for the project Authorization by the local health department licensed engineer submitting the evaluation Authorization or Improvement Permit and	athorization application together, the pend sealed plans or evaluations conducted a Article 5 of Chapter 90A of the General as of receiving the application, conduct a sement Permit and Construction Authorization or Improvement Permit and Construction or Improvement Permit and Construction Authorization of department to cure the efficiencies in the shall make a final determination as to mess days after the local health department of the total in this subsection, the applicant a fect upon the decision of completeness of the permit or if the local health department fair on pursuant to this subsection may required Construction Authorization for cause. Unlist suspend or revoke the Construction Authorization for cause.	rmit fee charged by the let by a person licensed put Statutes as an Authorize a completeness review of ation includes all of the retruction Authorization is or Improvement Permit a the Construction Authorization whether the Construction authorization are the failure to a the Construction Authorization are the Construction authorization are the Construction Authorials to act within five busing the state that the local health appropriate of the Construction or Improventure of the Improventure of Improventur	ration together, submits a Construction Authorization, or an ocal health department, the common form developed by the resuant to Chapter 89C of the General Statutes as a licensed of On-Site Wastewater Evaluator, the local health the submittal. A determination of completeness means that required components. If the local health department incomplete, the local health department shall notify the and Construction Authorization. The applicant may submit action or Improvement Permit and Construction on Authorization or Improvement Permit and Construction and information from the applicant. If the local health fact as a determination of completeness. The applicant may iziation or Improvement Permit and Construction ness days. The Authorized On-Site Wastewater Evaluator or department revoke or suspend the Construction the Authorized On-Site Wastewater Evaluator or licensed ment Permit and Construction Authorization pursuant to G.S.
The review for completeness of t	his Construction Authorization v	was conducted in ac	cordance with G.S. 130A-335(a5). This
Construction Authorization is det	ermined to be:		
☐ Incomplete (If box is checked	I, information in this section is re	equired.)	
The following items are missing:			·
Copies of this were sent to the AG	DWE/PE and the Applicant on _	Date	
State Authorized Agent:			Date:
☐ Complete			
State Authorized Agent:			Date of Issuance:
attached here. This Construction Construction Authorization shall	Authorization is subject to revenot be affected by a change in	ocation if the site p ownership of the si	sing the signed and sealed plans or evaluations lan, plat, or the intended use changes. The ite. This Construction Authorization is subject d Disposal and to the conditions of this permit.
any liabilities, duties, and respor plans, evaluations, preconstructi the General Statutes as a license Authorized On-Site Wastewater	nsibilities imposed by statute or ion conference findings, submit d engineer or a person certified Evaluator in GS 130A-335(a2), (artments shall be responsible and the ile, including the issuance of the	r in common law fro tals, or actions fron I pursuant to Article (a5), and (a7). The D nd bear liability for e operations permit	ments shall be discharged and released from om any claim arising out of or attributed to n a person licensed pursuant to Chapter 89C of a 5 of Chapter 90A of the General Statutes as an Department, the Department's authorized their actions and evaluations and other t pursuant to GS 130A-337.
	See attach	ed site sketch	

G.S. 130A-335(a2) Common Form



Permit #:	
-----------	--

Re-submittal of Construction Authorization

	LHD USE ONLY:	This CA resubmittal received:	Date	by	Initials	
The following it	tems are being result	omitted pursuant to G.S. 130A-335	5(a5) for issuance	of the Constru	uction Authorizat	ion:
is accurate and			t the information i			
Signatur	re of Authorized On-Site	Nastewater Evaluator		Date		
LHD Follow-u		w is for Local Health Department uses S Review of Construction Au		items noted as	missing above.	
	completeness of thi on Authorization is o	s Construction Authorization re-sudetermined to be:	ubmittal was cond	ucted in acco	ordance with G.S.	130A-335(a5).
☐ Incomplete	(If box is checked, ir	nformation in this section is requir	red.)			
The following it	ems are missing:					
Copies of this w	vere sent to the AO\	WE/PE and the Applicant on	Date	_		
State Authorize	ed Agent:			D	ate:	
☐ Complete						
State Authorize	ed Agent:			D	ate:	

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

alexadams@bcsoil.com

December 3, 2024 Project #2044

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335 (a2), (a5), and (a6)"

RE: Bryant Road - Lot #2 (adjacent to 465 Bryant Rd) for Marchese Family (Harnett County PIN# 1507-46-3508)

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 360 gallon/day septic design.

The suitable soils found on the subject property were relatively consistent in the initial and repair areas. The area designated for the initial/primary septic system (see attached septic plan) was found to contain soils with greater than 24 inches in depth before a restrictive horizon was encountered.

Please find the attached wastewater soil/site evaluation forms for specific soil properties found in the initial and repair areas as well as assigned soil long term acceptance rate (LTAR). Numerous soil borings were made throughout the property and representative soil profile descriptions for the primary septic field and repair area are provided. A location sketch for profile descriptions is also attached. The initial and primary septic fields were sized based on a flow rate of 360 gallons/day and utilizing Accepted Status. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the primary and repair (if needed) system on contour, see attached site plan for the primary system and repair locations. No underground utilities, water lines, or sprinkler systems shall be

placed into the initial or repair septic areas. Installation must meet all state and Harnett County regulations for septic system installation. The trenches must be installed in the same location as the site plan. If the installation is in question at the time of installation call me (Alex Adams) at 919-414-6761.

This report discusses the location of provisionally suitable soils identified on the property and does not guarantee the future function of any waste water disposal system installed.

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

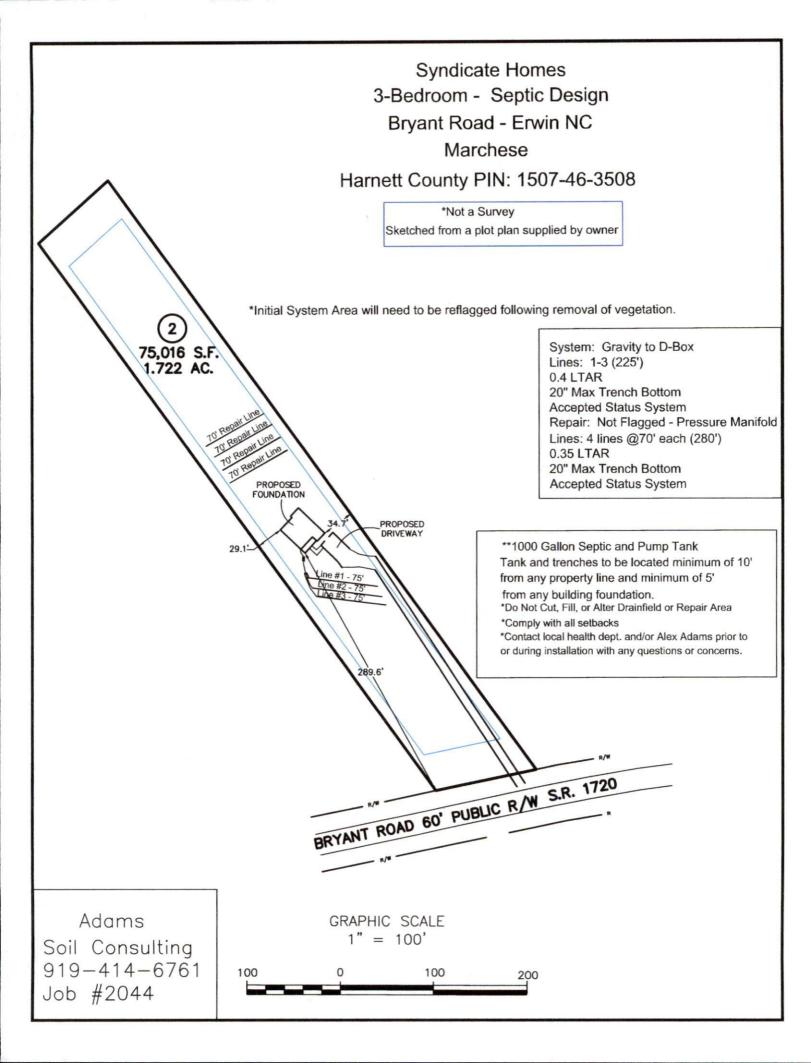
Sincerely,

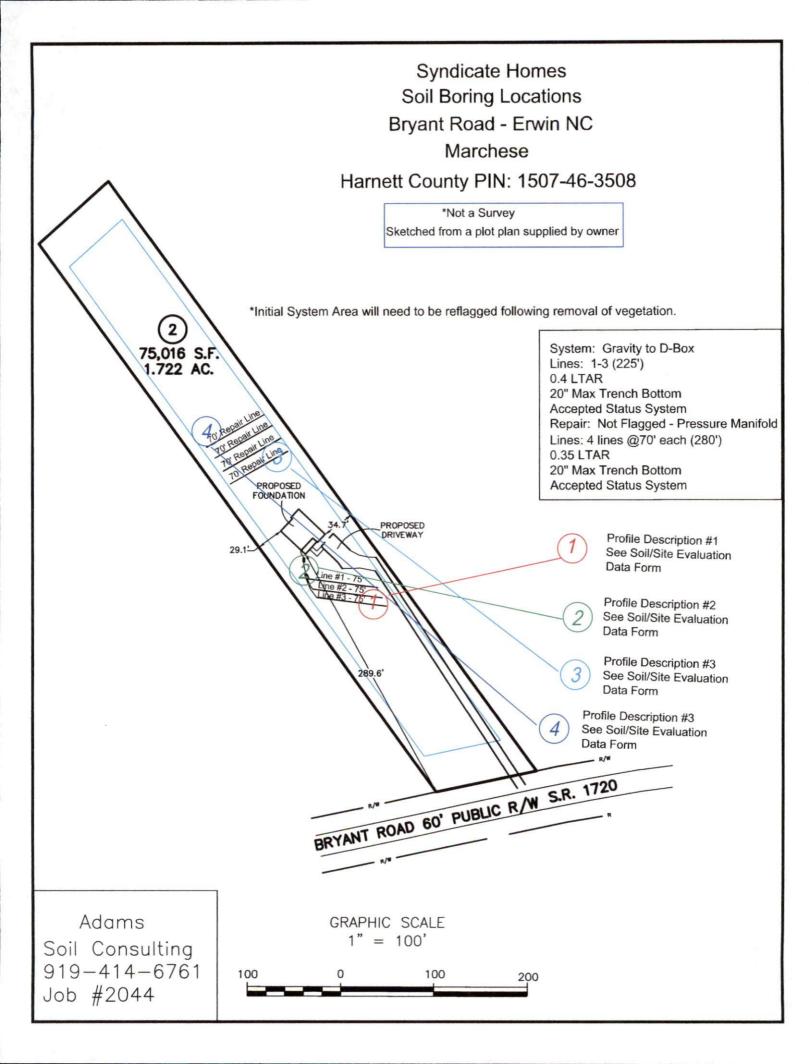
Alex Adams

NC Licensed Soil Scientist #1247 AOWE Certification: 10021E









SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Marchese

ADDRESS: 465 Bryant Road

PROPOSED FACILITY: Single Family, 3-bedroom PROPOSED DESIGN FLOW (.1949): 360gpd

APPLICATION DATE:

DATE EVALUATED: 12-2-24

PROPERTY SIZE: ~1.72 Acres

LOCATION OF SITE: Bryant Road - Erwin WATER SUPPLY: Public Water

TYPE OF WASTEWATER: Sewage EVALUATION METHOD: Auger Boring

P R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	Linear	0-24	GR/LS	VFR/SEXP/NS	N/A	N/A	N.O	N.O	U/PS/.4
1	Slope/4%	24-38	SBK/SCL	FR/SEXP/NS					
	Linear Slope/4%	0-35 35-40	GR/SL SBK/SCL	VFR/SEXP/NS FR/SEXP/NS	N/A	N/A	N.O	N.O	U/PS/.4
2									
	Linear Slope/4%	0-5	GR/LS	VFR/SEXP/NS	32"	N/A	N.O	N.O	PS/.35
3		5-32	SBK/SCL	FR/SEXP/NS					
4	Linear Slope/4%	0-6	GR/LS	VFR/SEXP/NS	34"	N/A	N.O	N.O	U/PS/.35
		6-34	SBK/SCL	FR/SEXP/NS					
			-	-					

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

COMMENTS:

P R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
							,		

