Per
Permit #:
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ROY COOPER • Governor

KODY H. KINSLEY · Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

בואסוטו טון מטוט וסמונו
Submittal Includes: 🔲 (a2) Improvement Permit 🔲 (a2) Construction Authorization 🔲 Fee \$
IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)
County:
PIN/Lot Identifier:
Issued To:
Property Location:
Subdivision (if applicable) Lot #: Block: Section:
LSS Report Provided: Yes 🔲 No 🗌
If yes, name and license number of LSS:
New ☐ Expansion ☐ System Relocation ☐ Change of Use ☐
Proposed Structure:
Number of bedrooms: Number of Occupants: Other:
Design Wastewater Strength: ☐ domestic ☐ high strength ☐ industrial process
Proposed Design Daily Flow:GPD Proposed LTAR (Initial):Proposed LTAR (Repair):
Proposed Wastewater System Type*:
Proposed Wastewater System Type*:
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Saprolite System (initial): 🗌 Yes 📋 No Saprolite System (repair): 🗎 Yes 📋 No
☐ No If yes, specify: ☐ New [
s   No It yes, specit
Usable Soil Depth (Initial):
Yes No If yes, please specify details:
=
Drainfield location meets requirements of Rule .1945: Yes 📗 No 📗 Drainfield location meets requirements of Rule .1950: Yes 📗 No 📗 Permit valid for: 🔲 Five years [site plan submitted pursuant to GS 130A-334(13a)] 🔲 No expiration [plat submitted pursuant to GS 130A-334(7a)]
Permit conditions:
ا ا
Licensed Soil Scientist Signature: X Lex X pome Date:

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

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

\*See attached site sketch\*



Permit #:

# This Section for Local Health Department Use Only

Initial submittal received:

Date

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Initials

G.S. 130A-335(a3) states the following:
When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health
department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall,
within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvemen
Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department
shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health
department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit
is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to
act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a
common form for use as the Improvement Permit.

act

State Authorized Agent: State Authorized Agent: Copies of this were sent to the LSS and the Applicant on The following items are missing: Permit is determined to be: The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement ☐ Incomplete (If box is checked, information in this section is required.) ☐ Complete Date Date: Date:

permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The Disposal and to the conditions of this permit. ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s)

any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to The Department, the Department's authorized agents, and the local health departments shall be discharged and released from evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date:

\*See attached site sketch\*



Permit #:

## **Re-submittal of Improvement Permit**

	LHD USE ONLY: This IP resubmittal received:by
The following i	The following items are being resubmitted pursuant to G.S. 130A-335(a3) for issuance of the Improvement Permit:
<del></del>	hereby attest that the information required to be included with this re-submittal
Licensed Soil is accurate and State, and local	
Signatu	Signature of Licensed Soil Scientist  Date
	The section below is for Local Health Department use after submittal of items noted as missing above.
LHD Follow-	LHD Follow-up Completeness Review of Improvement Permit
The review for Improvement P	The review for completeness of this Improvement Permit re-submittal was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:
☐ Incomplete The following it	☐ Incomplete (If box is checked, information in this section is required.) The following items are missing:
Copies of this w	Copies of this were sent to the LSS and the Applicant on
State Authorized Agent:	ed Agent: Date:
☐ Complete State Authorized Agent:	ed Agent: Date:
State Additions	



Permit #:

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

County:
PIN/Lot Identifier:
Issued To:
Property Location:
AOWE/PE Plans/Evaluations Provided: Yes 🔲 No 🔲 If yes, name and license number of AOWE/PE:
Facility Type:
New ☐ Expansion ☐ Repair ☐ System Relocation ☐ Change of Use
Basement?
Type of Wastewater System* (Initial) (Repair
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Design Daily Flow: GPD Wastewater Strength: 🗌 domestic 🔲 high strength 🔲 industrial process
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies?
Installation Requirements/Conditions
Septic Tank Size:gallons Total Trench/Bed Length:feet Trench/Bed Spacing:feet on center
Trench/Bed Width: inches LTAR: gpd/ft <sup>2</sup>
Soil Cover: inches Slope Corrected Maximum Trench/Bed Depth <sup>‡</sup> : inches * Measured on the downhill side of the trench
Aggregate Depth:inches above pipeinches below pipeinches total
Pump Requirements:ft. TDH vsGPM
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:
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.
AOWF/DE Print Name:
Ylex Holama
This AOWF/PF sub

\*See attached site sketch\*



Permit #:

# This Section for Local Health Department Use Only

	Initial submittal received: _
Date	
Initials	by

### G.S. 130A-335(a5) states the following

department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction 130A-23. The Department shall develop a common form for use as the Construction Authorization. engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This
Construction Authorization is determined to be:
☐ Incomplete (If box is checked, information in this section is required.)
The following items are missing:
Copies of this were sent to the AOWE/PE and the Applicant on
Date
State Authorized Agent: Date:
☐ Complete
State Authorized Agent: Date of Issuance:
This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.
The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an
Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.
Construction Authorization Expiration Date:

\*See attached site sketch\*



Permit #:

## **Re-submittal of Construction Authorization**

Date:	Complete State Authorized Agent:
WE/PE and the Applicant on	Copies of this were sent to the AOWE/PE and the Applicant on State Authorized Agent:
THE OTIANA VIDES	
nformation in this section is required.)	☐ Incomplete (If box is checked, information in this section is required.) The following items are missing:
The review for completeness of this Construction Authorization re-submittal was conducted in accordance with G.S. 130A-335(a5). This Construction Authorization is determined to be:	The review for completeness of this Construction Authorization is determined to be:
The section below is for Local Health Department use after submittal of items noted as missing above. Completeness Review of Construction Authorization	The section below is for Local Health Department use after submittant LHD Follow-up Completeness Review of Construction Authorization
Wastewater Evaluator Date	Signature of Authorized On-Site Wastewater Evaluator
the proposed Construction Authorization mee	Authorized Onsite Wastewater Evaluator (Print Name) is accurate and complete to the best of my knowledge and that federal, State, and local laws, regulations, rules, and ordinances.
hereby attest that the information required to be included with this re-submittal	
LHD USE ONLY: This CA resubmittal received:byby	LHD USE ONLY: This CA resulting following items are being resubmitted pursua

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

alexadams@bcsoil.com

June 25, 2024 Project #1146

"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)."

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

To whom it may concern: RE: 288 Double Barrel St. - Lillington, NC -Lot #66 - Duncan's Crossing for Smith Douglas Homes (Harnett County PIN# 0539-80-6888)

septic design. 15ANCAC 18E. From this evaluation, ASC is providing the attached 4-bedroom based on the criteria found in the State Subsurface Rules, State Subsurface Rules, evaluation was performed using hand auger borings during moist soil conditions subsurface wastewater disposal systems (conventional & LPP). The soil/site above referenced parcel to determine the areas of soils which are suitable for Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the

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

filling, soil removal, or layout changes may result in the permit being revoked. 480 gallons/day and utilizing Accepted Status. Any unauthorized site disturbance, attached. The initial and primary septic fields were sized based on a flow rate of and repair area are provided. A location sketch for profile descriptions is also property and representative soil profile descriptions for the primary septic field acceptance rate (LTAR). Numerous soil borings were made throughout the properties found in the initial and repair areas as well as assigned soil long term Please find the attached wastewater soil/site evaluation forms for specific soil

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

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

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

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

Sincerely,

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





#### Johnston County PIN: 0539-80-6888 288 Double Barrel St - Lillington, NC Duncan's Crossing - Lot #66 4-Bedroom Septic Design Smith Douglas Homes

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

\*Septic lines may beflagged longer than required on lot.

25'REAR SETBACK

\*\*1000 Gallon Septic and Pump Tank

Tank and trenches to be located minimum of 10'

from any property line and minimum of 5'

from any building foundation.

\*Contact local health dept. and/or Alex Adams prior to \*Comply with all setbacks

or during installation with any questions or concerns

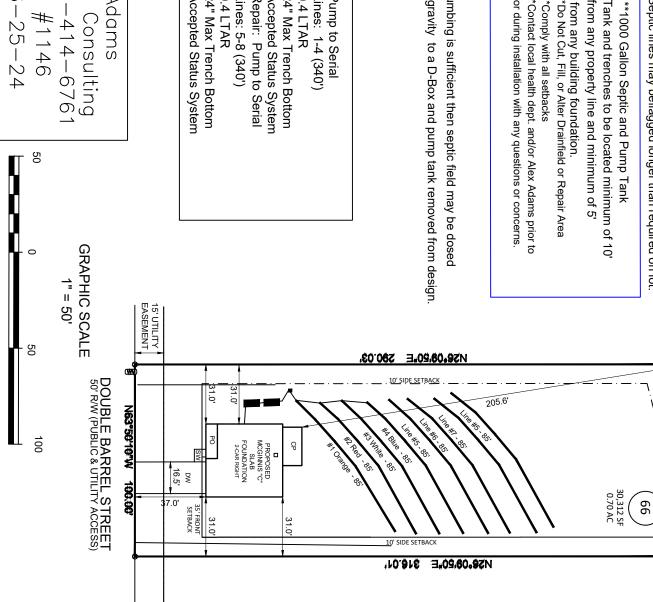
\*If plumbing is sufficient then septic field may be dosed with gravity to a D-Box and pump tank removed from design.

Lines: 5-8 (340') 0.4 LTAR 0.4 LTAR 24" Max Trench Bottom Repair: Pump to Serial Accepted Status System Pump to Serial Lines: 1-4 (340') 24" Max Trench Bottom

Accepted Status System

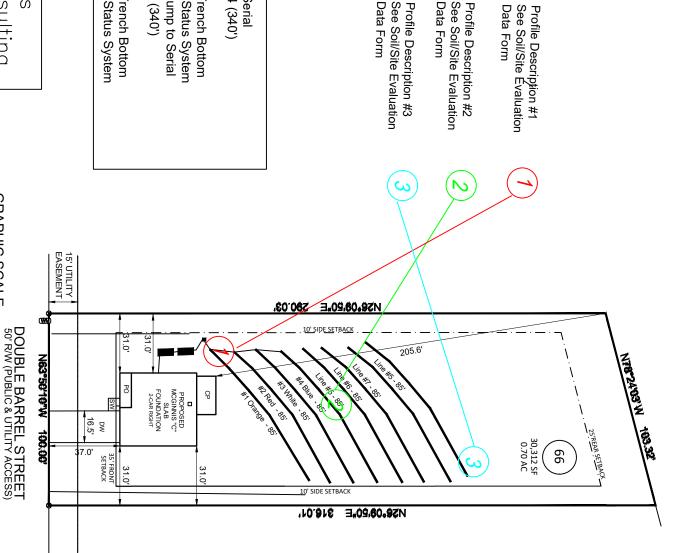
Soii 919dob Adams Consulting -414-6761 #1146 25 -24

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### Johnston County PIN: 0539-80-6888 288 Double Barrel St - Lillington, NC Duncan's Crossing - Lot #66 **Smith Douglas Homes** Soil Boring Locations

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



Data Form

Data Form

Data Form

Soil 919dob ത Adams Consulting -414-6761 #1146 25 .24

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Lines: 5-8 (340') 0.4 LTAR 24" Max Trench Bottom

Accepted Status System Repair: Pump to Serial

Accepted Status System

Pump to Serial
Lines: 1-4 (340')
0.4 LTAR
24" Max Trench Bottom



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

OWNER: Smith Douglas Homes
PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 480gpd
LOCATION OF SITE: 288 Double Barrel St – Lillington, NC 27546
WATER SUPPLY: Public Water
EVALUATION METHOD: Auger Boring
TYPE OF WASTEWATER:

Sewage

APPLICATION DATE: 6-17-24 PROPERTY SIZE: ~0.7 acres

4	ယ	2	1	# ELLAO <b>&amp;</b> A
	Linear Slope/3%	Linear Slope/3%	Linear Slope/3%	.1940 LANDSCAPE POSITION/ SLOPE %
	7-36	0-10 10-36	5-36	HORIZON DEPTH (IN.)
	GR/LS SBK/SCL	GR/LS SBK/SCL	GR/LS SBK/SCL	SOIL MO ( 1941 STRUCTURE/ TEXTURE
	FR/SEXP/NS N/A FI/SEXP/SS	FR/SEXP/NS N/A FI/SEXP/SS	FR/SEXP/NS 35" FI/SEXP/SS	SOIL MORPHOLOGY (.1941)  1941 RUCTURE/ EXTURE CONSISTENCE/ MINERALOGY
	N/A	N/A	35"	.1942 SOIL WETNESS/ COLOR
	N/A	N/A	N/A	OTHER PROFILE FACTORS  1943 SOIL SAPRO DEPTH CLASS
	N/A	N/A	N/A	OTHER ILE FACTOR  11 1956 11 SAPRO CLASS
	N/A	N/A	N/A	RS .1944 RESTR HORIZ
	PS/0.4	PS/0.4	PS/0.4	PROFILE CLASS & LTAR

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):
Available Space (.1945)	>5,000 ft <sup>2</sup>	>5,000 ft <sup>2</sup>	SITE CLASSIFICATION (.1948): PS
System Type(s)	Type III (g)	Type III (g)	EVALUATED BY:A. Adams OTHER(S) PRESENT:
Site LTAR	0.4	0.4	

COMMENTS: