

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 \$
	IMPROVEN	MENT PERMIT FOR G.S. 130A-335	5(a2)
County: Harnett			
	-22-9235		
Issued To: New Home In	nc		
Property Location: 613 E	Beacon Hill Rd Lillington NC 27	7546	
			Block: Section:
LSS Report Provided: Yes			
If yes, name and license	number of LSS: Alex Adams LS	SS # 1247	
New 🔽	Expansion	System Relocation	Change of Use
Proposed Structure: Sing	gle Family Home		
Number of bedrooms: 4	Number of Occupants:	8 Other:	
Design Wastewater Stren	ngth: 🗸 domestic	high strength industri	al process
Proposed Design Daily Flo	ow: 480 GPD	Proposed LTAR (Initial): .35 Pr	oposed LTAR (Repair):35
Proposed Wastewater Sy	stem Type*: Accepted Status	(Initial) Pump Req	uired: Yes No May be required
Proposed Wastewater Sy	stem Type*: PPBPS	(Repair) Pump Req	uired: 🗹 Yes 🗌 No 🔲 May be required
*Please include system cl	lassification for proposed waste	water system types in accordance with 15A	NCAC 18A .1961 Table V(a)
Saprolite System (initial):	Yes V No Saproli	te System (repair): 🗌 Yes 🕝 No	
Fill System (Initial): Ye	es 🔽 No If yes, specify: 🗌 N	ew Existing (when adding more than 6	inches of fill to system area provide a fill plan)
Fill System (repair): Y	es 🔽 No If yes, specify: 🗌 N	lew Existing (when adding more than 6	inches of fill to system area provide a fill plan)
Usable Soil Depth (Initial)): 32 Usable	Soil Depth (Repair): 32	
Max. Trench Depth (Initia	al)‡: <u>18</u> Max. T	rench Depth (Repair)‡: 18 #	Measured on the downhill side of the trench
Artificial Drainage Requir	ed: Yes Vo If yes, plea	ase specify details:	
Type of Water Supply:	Private well Public well	☐ Shared well ✓ Municipal Supply	Spring Other:
Drainfield location meets	requirements of Rule .1945: Y	es 🗸 No 🗌 Drainfield location meets	requirements of Rule .1950: Yes 🗸 No 🗌
Permit valid for: 🔽 Five	years (site plan submitted pursi	uant to GS 130A-334(13a)] 🔲 No expiratio	n [plat submitted pursuant to GS 130A-334(7a)
Permit conditions:			
Licensed Soil Scientist Pri	nt Name: Alex Adams		
Licensed Soil Scientist Sig	MA MA	2ma	Date: 5-29-25
Election 3011 3010110151 318	mature		Date:

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

LOCATION: 5605 Six Forks Road, Building 3, Raleigh, NC 27609
MAILING ADDRESS: 1632 Mail Service Center, Raleigh, NC 27699-1632
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Permit #: 2505~ 0227

This Section for Local Health Department Use Only

Initial submittal received: 0 2 25 by 100 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 Improvement 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.

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

See attached site sketch





CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2) County: Harnett PIN/Lot Identifier: 0630-22-9235 Issued To: New Home Inc Property Location: 613 Beacon Hill Rd. Lillington NC 27546 AOWE/PE Plans/Evaluations Provided: Yes 🗸 No 🗌 If yes, name and license number of AOWE/PE: Alex Adams AOWE # 10021 E Facility Type: SFH ✓ New Repair Expansion System Relocation Change of Use V No ☐ Yes Basement Fixtures? Yes V No Basement? Type of Wastewater System* Accepted Status **PPBPS** (Initial) (Repair) *Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a) Design Daily Flow: 480 GPD Wastewater Strength: V domestic high strength industrial process Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? Yes No (if yes, please provide engineering documentation) Installation Requirements/Conditions Septic Tank Size: 1000 gallons Total Trench/Bed Length: 375 feet Trench/Bed Spacing: 9 feet on center inches LTAR: .35 Trench/Bed Width: 36 ____ gpd/ft² Soil Cover: 6 inches Slope Corrected Maximum Trench/Bed Depth[‡]: 18 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): 1000 gallons Requires more than 1 pump? Yes No Pump Requirements: 17.11 ft. TDH vs. 47.69 GPM Grease Trap Size (if applicable): _____ gallons Distribution Method: Serial D-Box or Parallel Pressure Manifold(s) LPP Other: Artificial Drainage Required: Yes No V 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 Vo Easement, Right-of-Way, or Encroachment Agreement Required [.1938(i)]: Yes V No Declaration of Restrictive Covenants: Yes V No Pre-Construction Conference Required: Yes No 🗸

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

Expiration Date: 5-29-30

Date: 5-29-25

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.

Alex Haamo

See attached site sketch

AOWE/PE Print Name: Alex Adams

AOWE/PE Signature:

Conditions:





This Section for Local Health Department Use Only

Initial submittal received: 6 2 2 5 by 10 Initials

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

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the 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 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 shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization 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 applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and 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 licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

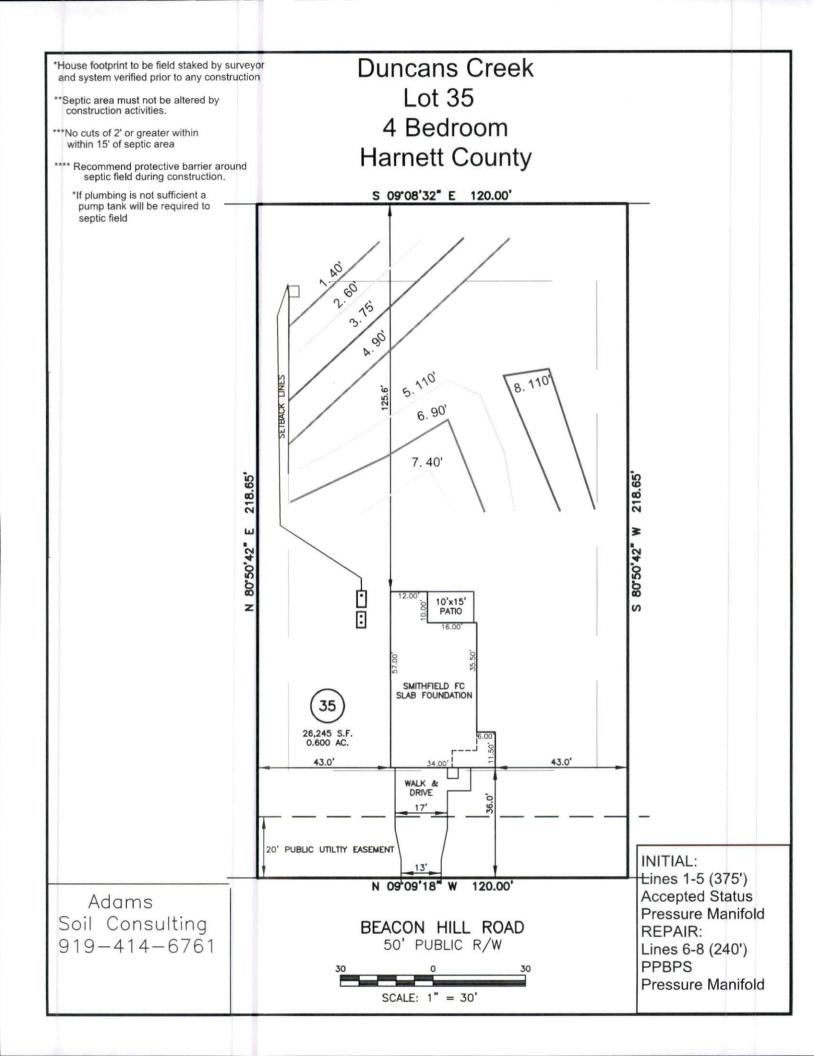
Construction Authorization is determined to be:								
☐ Incomplete (If box is checked, information in this section is required.)								
The following items are missing:								
Copies of this were sent to the AOWE/PE and the Applicant on	Date							
State Authorized Agent:	Date:							
State Authorized Agent: This Construction Authorization is issued pursuant to G.S. 130A-33 attached here. This Construction Authorization is subject to revoce	5(a2) and (a5) using the signed and sealed plans or evaluation							

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This

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 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.

See attached site sketch



RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Duncan Creek Lot 35

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

Septic Tank: 1200 gals Pump Tank: 1200 gals Sq. Foot: 1125 System Type: Accepted

Number of Taps: 5 Length of Trenches: 375 ft(See Tap Chart for Details)

Depth of Trenches: 18 in Manifold Length: 48 in

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

Supply Line: length: 115 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 9.11 ft(supply line length + 70' for fittings in pump tank)

Design Head: $\underline{2}$ ft Elevation Head: $\underline{6.00}$ ft

Total Head: 17.11 ft Pump to Deliver: 47.69 gals/min at 17.11 ft head

Dosing Volume: <u>183</u> gals,

Drawdown: 183 gals divided by $\underline{20}$ gals/in = $\underline{9.1}$ inches

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

TAP CHART

Benchmark		is = 100.00	set at				Design Head:	2		
Pump tank elev.			100.00	Pump elev.	95.00		Manifold elev.	101.00		# (B
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	# of Panels (PPBPS)
1	Pink		100.00	40	1/2in SCH 80	5.48	55.16	120	0.4596	,
2	Yellow		100.00	60	1/2in SCH 40	7.11	71.56	180	0.3976	
3	Red		100.00	75	3/4in SCH 80	10.1	101.66	225	0.4518	
4	Pink		100.00	90	3/4in SCH 40	12.5	125.81	270	0.4660	
5	Yellow		100.00	110	3/4in SCH 40	12.5	125.81	330	0.3813	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			100.00			0	0.00	0	#DIV/0!	
			Total Feet =	375	gal/min =	47.69		LTAR =	0.3500	
			Feet Required =	343	Velocity =	4.56		(Itar + 5%)	0.3675	
Total # of Panels (P	PBPS)			Des. Flow	480			(Itar w/25% red)	0.4667	
% of Dose Vol.		75		Pump Run=	10.07			(Itar + 5%)	0.4900	
Dose Volume		183		Tank Gal/IN	20					
Dose Pump Time		3.83		Elev. Head	6.00					
Drawdown in Inche	s	9,1								
Comments:										