

North Lakes Soil Consulting, PLLC 3325 Jones Lakes Road Fuquay-Varina, NC 27526 john@northlakessoil.com 910-539-5439

Acknowledgement of A2 Soil & Site Evaluation by North Lakes Soil Consulting, PLLC for issuance of an Improvement Permit (IP).

Address/Subdivision Lot#: 0 JOHNSONVILLE SCHOOL RD, CAMERON, NC 28326

PIN: <u>9566-75-9854.000</u>

For Improvement Permit (IP) issuance:

"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)."

For Construction Authorization (CA) issuance:

"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)."

Owner:	Silver	right dertor)	
Owner's rep	oresentative:			
Date:		12/9/24		

Permit/File #:	

Fee \$



Submittal Includes:

(a2) Improvement Permit

ROY COOPER · ernor

KODY H. KINSLEY · Secretary

MARK BENTON · Chief Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

(a2) Construction Authorization

IMPROVEMENT	PERMIT FOR G.S.	130A-335(

County: Harnett PIN/Lot Identifier: 9566-75-9854 Issued To: Brandon & Alicia Raines Property Location: 0 Johnsonville School Road, Cameron, NC 28326 Subdivision (if applicable) Lot #: _____ Block: ____ Section: _____ LSS Report Provided: Yes No If yes, name and license number of LSS: John Kase, NCLSS# 1323 Change of Use Expansion System Relocation Facility Type: Single-Family Residence Number of bedrooms: 3 Number of Occupants: 6 Other: Industrial Process Wastewater Design Wastewater Strength: Domestic High Strength GPD Proposed LTAR (Initial): 0.400 Proposed LTAR (Repair): 0.400Proposed Design Daily Flow: 360 Proposed Wastewater System Type*: IIB - Accepted (25% Reduction) - At-Grade w/ cover (Initial) Pump Required: Yes No May be required Proposed Wastewater System Type*: IIB - Accepted (25% Reduction) - At-Grade w/ cover (Repa Pump Required: Yes No May be require *Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII Effluent Standard: DSE HSE NSF/ANSI 40 TS-I TS-II RCW Saprolite System (Initial): Yes No Saprolite System (Repair): Yes No Fill System (Initial): Yes No If yes, specify: New Existing (when adding more than 6 inches of fill to system area provide a fill plan) Fill System (Repair): Yes No If yes, specify: New Existing (when adding more than 6 inches of fill to system area provide a fill plan) Usable Depth to LC (Repa x: 25 x Limiting Condition Usable Depth to L Initial)x: 25 Max. Trench Depth (Initial)*: 12 Max. Trench Depth (Repair)*: 12 *Measured on the downhill side of the trench Artificial Drainage Required: Yes No If yes, please specify details: Type of Water Supply: Private well Public well Shared well Municipal Supply Spring Other: Drainfield location meets requirements of Rule .0508: Yes No Drainfield location meets requirements of Rule .0601: Yes No Drainfield location meets .0601: Y 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:

Permit is subject to suspension or revocation if the Site Plan changes or the intended use changes, which significantly impact permit. Maintain all required setbacks pursuant to 15A NCAC 18E SECTION .0600 – LOCATION OF WASTEWATER SYSTEMS.

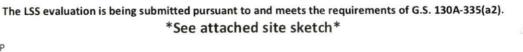
No grading should be completed within the areas reserved for the initial and repair septic areas.

When grading the lot, no cuts of 2' or greater should be within 15' of the areas reserved for septic. There should be no cutting or filling within the areas reserved for septic. See additional permit conditions attached.

Licensed Soil Scientist Print Name: John Kase

Licensed Soil Scientist Signature:

___ _{Date:} 12/2/2024







Permit/File #: _	
_	

This Section for Local Health Department Use

	Initial submittal received:	b	y	
		Date	Initials	
G.S. 130A-335(a3) states	the following:			
department, the common form within five business days of red Permit includes all of the requi shall notify the applicant of the department to cure the deficient is complete within five business	ovement Permit submits to a local health department developed by the Department, and a soil evaluation developed by the Department, and a soil evaluation the event of the local health department detection of the local health department detection in the Improvement Permit. The local health as days after the local health department receives the life subsection, the applicant may treat the failure approvement Permit.	on pursuant to subsection view of the submittal. A de termines that the Improve at Permit. The applicant n department shall make a de additional information	n (a2) of this section etermination of con ement Permit is inco nay submit addition final determination from the applicant.	, the local health department shall, in pleteness means that the Improvement omplete, the local health department al information to the local health as to whether the Improvement Permit If the local health department fails to
The review for complete Permit is determined to	ness of this Improvement Permit was co be:	nducted in accordar	nce with G.S. 13	0A-335(a3). This Improvement
□ Incomplete (If hovis	s checked, information in this section is re	equired)		
		equireu.j		
The following items are	missing:			
Copies of this were sent	to the LSS and the Applicant on	Date		
State Authorized Agent:			_ Da	te:
☐ Complete				
State Authorized Agent:	+		_ Da	te:
attached here. The issu for checking with appro- plat, or the intended use permit is subject to com The Department, the De any liabilities, duties, ar	nit is issued pursuant to G.S. 130A-335 (a ance of this permit in no way guarantee priate governing bodies in meeting their echanges. The Improvement Permit shapliance with the provisions of 15A NCA epartment's authorized agents, and the ind responsibilities imposed by statute of	es the issuance of ot r requirements. <u>This</u> all not be affected be C 18E and to the con local health departi r in common law fro	ther permits. The permit is subject to the permit is subject to the permit is subject to the permits of this ments shall be commany claim are	te permit holder is responsible ect to revocation if the site plan, whership of the site. This permit. discharged and released from ising out of or attributed to
evaluations, submittals,	or actions from a licensed soil scientist	or licensed geologis	st pursuant to 6	6S 130A-335(a2).
Improvement Permit Ex	piration Date:			

See attached site sketch



Permit/File #:	
Permit/File #:	

Re-submittal of Improvement Permit

	LHD USE ONLY: This IP	resubmittal received: _	Date	by	_
Γhe following i	tems are being resubmitted p	oursuant to G.S. 130A-3	35(a3) for issuance	of the Improvement Permi	it:
s accurate and	cientis Print Name) complete to the best of my laws, regulations, rules, and	knowledge and that the		required to be included wi	
Signatur	e of Licensed Soil Scientist			Date	
	ıp Completeness Revie	w of Improvement	Permit	items noted as missing above	
	completeness of this Improvermit is determined to be:	ement Permit re-subm	ittal was conducted	l in accordance with G.S. 13	30A-335(a3). This
☐ Incomplete	(If box is checked, informat	ion in this section is red	quired.		
The following it	ems are missing:				
Copies of this w	ere sent to the LSS and the	Applicant on			
State Authorize	d Agent:			Date:	
☐ Complete					
State Authorize	d Agent:			Date:	

3



Permit/File #:	1
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CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a

County: Harnett	Pre-Construction Confere Required: Yes ☐ No ■
PIN/Lot Identifier: 9566-7	75-9854
Issued To: Brandon & A	Alicia Raines
	nsonville School Road, Cameron, NC 28326
AOWE/PE Plans/Evaluations	Provided: Yes No If yes, name and license number of AOWE/PE: Alan Clapp, 10017E
Facility Type: Single-Fa	mily Residence
Number of bedrooms: 3	Number of Occupants: 6 Other:
■ New	nsion Repair System Relocation Change o Use
Basement? Yes	■ No Basement Fixtures? Yes ■ No
and the second s	
Type of Wastewater System	* IIB - Accepted (25% Reduction) - At-Grade w/ cover (Initial) IIB - Accepted (25% Reduction) - At-Grade w/ cover (Repair)
*Please include system class	ification for proposed wastewater system types in accordance with Rule .1301 Table XXXII
Design Daily Flow: 360	GPD Wastewater Strength: ■ Domestic ☐ High Strength ☐ Industrial Process WW
Session Law 2014-120 Section (if yes, please provide engine	on 53 Engineering Design Utilizing Low- Fixtures and Low-flow Technologies? Yes No vering documentation)
Effluent Standard: 🔳 DSE	HSE NSF/ANSI 40 TS-I TS-II RCW
Type of Water Supply: Pr	rivate well Public well Shared well Municipal Supply Spring Other:
Trench/Bed Width: 36 Soil Cover: 12 inches Pump Tank Size (if applicable Pump Requirements:	gallons Total Trench/Bed Length: 300 feet Trench/Bed Spacing: 9 feet on center inches TAR: 0.40 gpd/ft² Usable Depth t Initial)². 25 *Limiting condition Slope Correct Maximum Trench/Bed Depth†: 12 inches * Measured on the downhill side of the trench e): 1000 gallons Requires more than 1 pump? Yes No No Grease Trap Size (if applicable): gallons gallons GPM Grease Trap Size (if applicable): gallons GPM Grease Trap Size (if applicable): gallons GPM Other: Yes No If yes, please specify details: Swer is "Yes" to any type of legal agreements, please attach a copy of the agreement.) GPM G
Maintain all required sett State approved tanks wit	ension or revocation if the Site Plan changes or the intended use changes, which significantly impact permit. backs pursuant to 15A NCAC 18E SECTION .0600 – LOCATION OF WASTEWATER SYSTEMS. In cast in place inlet and outlet boots required for all septic and/or pump tanks. It until the system is installed. There will be a fee to re-flag the septic system layout.

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shawith the attached site sketch. <u>This Construction Authorization is subject to revocation if the site plan, plat, or the Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authori with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.</u>

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

See attached site sketch





Permit/File #:_	1

This Section for Local Health Department Use Only

Initial submittal received: ______ by _____

	Date	Initials
G.S. 130A-335(a5) states the following:		
When an applicant for a Construction Authorization, or an Improvement Permit of Improvement Permit and Construction Authorization application together, the perpendicular permit and any necessary signed and sealed plans or evaluations conducted engineer or a person certified pursuant to Article 5 of Chapter 90A of the General department shall, within five business days of receiving the application, conducted the Construction Authorization or Improvement Permit and Construction Authorization or Improvement Permit and Consapplicant of the components needed to complete the Construction Authorization additional information to the local health department to cure the deficiencies in the Authorization. The local health department shall make a final determination as the Authorization is complete within five business days after the local health department department fails to act within any period set out in this subsection, the applicant apply for the building permit for the project upon the decision of completeness of Authorization by the local health department or if the local health department fail licensed engineer submitting the evaluation pursuant to this subsection may requestion and the permit and Construction Authorization for cause, and the permit and Construction Authorization for cause, and the permit hall develop a common form for use as the Construction Alaon-23. The Department shall develop a common form for use as the Construction and the constructi	ermit fee charged by the local day a person licensed pursual Statutes as an Authorized Callo a completeness review of the zation includes all of the registruction Authorization is incompleteness review of the construction Authorization whether the Construction authorization whether the failure to act of the Construction Authorization and treat the failure to act of the Construction Authorization or the construction Authorization of the that the local health deput of the cuthorization or Improvement	In health department, the common form developed by the cant to Chapter 89C of the General Statutes as a licensed On-Site Wastewater Evaluator, the local health be submittal. A determination of completeness means that uired components. If the local health department complete, the local health department shall notify the local construction Authorization. The applicant may submit on or Improvement Permit and Construction Authorization or Improvement Permit and Construction information from the applicant. If the local health as a determination of completeness. The applicant may tion or Improvement Permit and Construction is days. The Authorized On-Site Wastewater Evaluator or construction. Authorized On-Si Wastewater Evaluator or licensed.
The review for completeness of this Construction Authorization	was conducted in acco	ordance with G.S. 130A-335(a5). This
Construction Authorization is determined to be:		
$\hfill\square$ Incomplete (If box is checked, information in this section is r	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 attached here. This Construction Authorization is subject to revice Construction Authorization shall not be affected by a change in to compliance with the provisions of the Laws and Rules for Se The Department, the Department's authorized agents, and the any liabilities, duties, and responsibilities imposed by statute or plans, evaluations, preconstruction conference findings, submit the General Statutes as a licensed engineer or a person certifical Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), agents, and the local health departments shall be responsible a obligations under State law or rule, including the issuance of the Construction Authorization Expiration Date:	vocation if the site plan ownership of the site wage Treatment and less to common law from the state, or actions from a different pursuant to Article (a5), and (a7). The Deand bear liability for the operations permit process.	n, plat, or the intended use changes The e. This Construction Authorization is subject Disposal and to the conditions of this pe ents shall be discharged and released from any claim arising out of or attributed to a person licensed pursuant to Chapter 89C of 5 of Chapter 90A of the General Statutes as an partment, the Department's authorized neir actions and evaluations and other



Permit/File #	
The Reproductive Astronomy	

Re-submittal of Construction Authorization

	LHD USE ONLY: This CA resubmittal received: _	Date	by	Initia	
The following is	tems are being resubmitted pursuant to G.S. 130A-3.	35(a5) for issuance	of the Constr	uction Authorization	on:
I,	hereby attest th	at the information	required to b	e included with thi	s re-submitta
	complete to the best of my knowledge and that the	proposed Constru	ction Authori	zation meets all ap	plicable
federal, State, a	and local laws, regulations, rules, and ordinances.				
Signatur	re of Authorized On-Site Wastewater Evaluator		Date		
	The section below is for Local Health Department us	se after submittal of	items noted as	missing above	
LHD Follow-u	up Completeness Review of Construction A	Authoriz			
	completeness of this Construction Authorization re- on Authorization is determined to be:	submittal was cond	ducted in acco	ordance with G.S. 1	30A-335(a5).
☐ Incomplete ((If box is checked, information in this section is requ	ired.)			
The following it	ems are missing:				
Copies of this w	vere sent to the AOWE/PE and the Applicant on	Date	_		
State Authorize	d Agent:		D	ate:	
☐ Complete					
State Authorize	d Agent:		D	ate:	



Permit/File #:	
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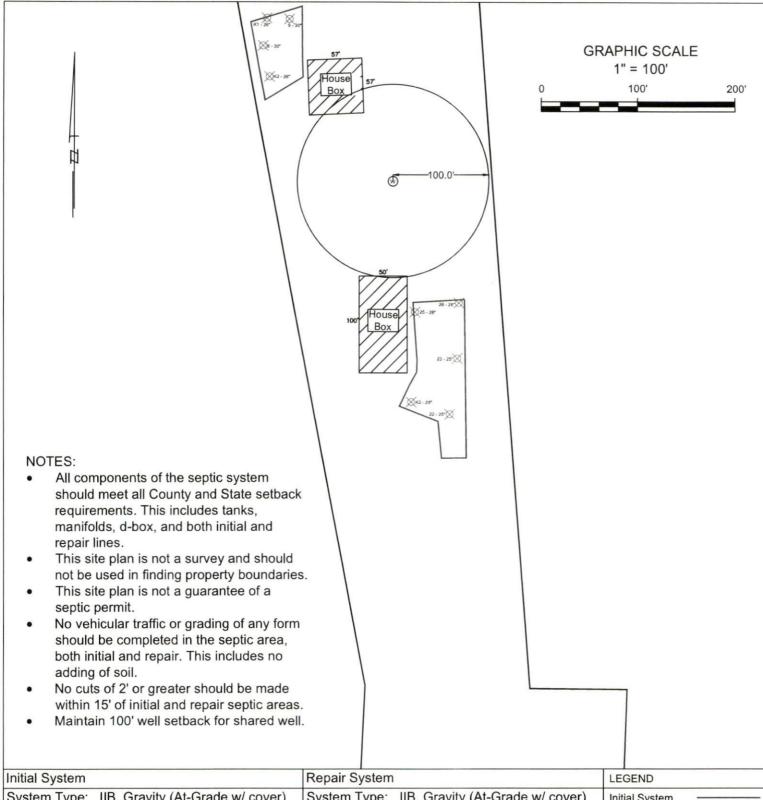
ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL

County: Harnett
PIN/Lot Identifier: 9566-75-9854
Issued To: Brandon & Alicia Raines
Additional Improvement Permit Conditions: 1.) It is recommended to construct protective fencing around the soil area to protect from grading, compaction, and construction traffic. 2.) Storage of materials, cuts and fill over septic area could result in revocation of the permit.
, , , , , , , , , , , , , , , , , , , ,
3.) Maintain the septic layout until the system is installed. There will be a fee to re-flag the septic system layout.
4.) This system is designed for domestic strength effluent only. No garbage disposals, garbage grinders, floor drains, water softener backwash, fats, oils, greases (FOG).
Additional Construction Authorization Conditions:
1.) Install system per 15A NCAC 18E .0901 (g) and .0800.
2.) Use septic and pump tanks as required per 15A NCAC 18E .0805.
3.) Maintain the septic layout until the system is installed. Make sure property lines are marked prior to installation. Contact NC 811 prior to any digging.
4.) For a 25% chamber system, I recommend placing #5 or #57 clean, washed gravel placed over the chamber louvers to offer structural support,
decreased settling, prevent soil intrusion on trench bottom and allow venting of the chambers. Use a High Flow Splash Plate at each End Cap receiving effluent if pumping to a chamber system.
5.) Soil cover above the original grade shall be placed over the entire dispersal field and shall extend laterally five feet beyond the trenches.
6.) Final soil cover over the dispersal field shall be a minimum of six inches deep after settling. The finished grade over the tanks and dispersal field shall be sloped to shed surface water.
7.) On level sites, the final grade of the dispersal field shall be crowned at one-half percent grade as measured from the centerline of the dispersal field.
8.) Surface water runoff, including stormwater, gutter drains, or downspouts, shall be diverted away from the wastewater system. No depressions shall be allowed over the dispersal field area.
9.) Install system during dry conditions (when no smearing of trench walls occurs and at least 3 days after the most recent measurable rain event). Install system in area noted at the trench depth specified.
10.) It is recommended to regularly operate the system at 50-60% of daily design peak flow to maintain the system at optimum performance.
11.) It is recommended to remove all maples, sweet gums, and willow oaks in the vicinity of the drainfield due to the propensity for roots growing into the drainfield lines.
12.) It is recommended to straw and seed septic area after installation to establish a stable cover and prevent soil erosion.

					ON OUEET		Project #		24-035							
		NSULTING, PLLC		OIL/SITE EVALUATI			Sheet #:									
1.0	R/APP. NAME:	Alicia Raines-Mary Herr			SUBDIV./LOT#				-							
	ON OF SITE:	Johnsonville School Ro														
COUNT		Hamett	PROPERTY ID #:	9566-75-9854		-	ALUATED	_	10/23/24							
	SED FACILITY:	SFR	PROPOSED DESIGN		Annual Control of the	PROPER	RTY SIZE:	12.36 acr	es							
	SUPPLY:	Shared Well		WATER SUPPLY		100'										
	F WASTEWATER	R:	Domestic		EVALUATION METHO			Auger								
PR			SOIL MORE	PHOLOGY		OTHER	DRS									
O F I L E	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PRO CL/ & L'							
	SS	0-20	SL - GR	VFR/NS/NP												
	3%	20-26	CL - SBKw	FR/SS/SP												
K-3	.0502(d)	26-29	CL - SBKw	FR/SS/P			N.O	N.O.	S-0							
	SLOPE	29-32	CL - SBKw	FR/SS/P	2.5Y 7/2@29"											
	1.1"															
	L	0-15	SL - GR	VFR/NS/NP												
	2%	15-25	CL - SBKw	FR/SS/SP												
22	.0502(d) SLOPE CORRECTION	25-30	CL - SBKw	FR/SS/SP	2.5Y 7/2@25"		N.O.	N.O.	S-							
	.7"															
	L	0-15	SL - GR	VFR/NS/NP												
	2%	15-25	CL - SBKw	FR/SS/SP												
23	.0502(d) SLOPE CORRECTION	25-30	CL - SBKw	FR/SS/SP	2.5Y 7/2@25"		N.O.	N.O.	S-0							
	.7"															
	L	0-14	SL - GR	VFR/NS/NP												
	2%	14-26	CL - SBKw	FR/SS/P												
25	.0502(d) SLOPE CORRECTION	26-30	CL - SBKw	FR/SS/P	2.5Y 7/2@26"		N.O.	N.0.	S-0							
	.7"															
DESCR	IPTION:	INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICA	ATION (.0509):	Suitable										
Available	e Space (.0508):	Suitable	Suitable	EVALUATED BY:		John Kas	se									
System	Type(s):	Accepted(25%)	Accepted(25%)	OTHER(S) PRESE	ENT:											
Site LTA	R:	0.400	0.400													
Maximu	m Trench Depth:	12"	12"													
Saprolite	e System:	No	No													
Commo	nte: Trench hottor	n depths measured from	downslone side of trench													

NORTH	LAKES SOIL CON	DIL CONSULTING, PLLC SOIL/SITE EVALUATION SHEET		Project #: Sheet #:			24-035		
OWNER/APP. NAME:		Alicia Raines-Mary H		SOIL/SITE EVALUATION SHEET SUBDIV/LOT#					
	ON OF SITE :	Johnsonville School F			30BDIV./LOT#				
COUNTY		Hamett	PROPERTY ID #:	9566-75-9854		DATE EV	/ALUATED).	10/23/24&11/16
**************	SED FACILITY:	SFR	PROPOSED DESIGN F		360		RTY SIZE:		
	SUPPLY:	Shared Well	11101 0022 22010111	WATER SUPPLY		100'	(III OILL.	12.00 00	
	WASTEWATER:	Section 1990 Barbara	Domestic		EVALUATION METHO			Auger	
P		15. 使用 增加	SOIL MORP	HOLOGY		OTHER		mhigar-ke	
R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	L	0-16	SL - GR	VFR/NS/NP	33200				
		16-26	CL - SBKw	FR/SS/P					
26	2%	26-30	CL - SBKw	FR/SS/P	2.5Y 7/2@26"		N.O.	N.O.	S-0.35
	.0502(d) SLOPE CORRECTION								
	.7"								
	.0502(d) SLOPE CORRECTION								
	.0502(d) SLOPE								
	CORRECTION								
	I .								

			Standa	rd Abbrevia	ations		
LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL	SAPROLITE	LPP LTAR	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)		S (Sand)		06-08 SE	SEXP (Slightly Expansive)	G (Single Grain)	
CV (Convex Slope)	1	LS (Loamy Sand)	0.8 - 1.2	0.5 - 0.7	0.4 - 0.6	EXP (Expansive)	M (Massive)
D (Drainage Way)	10 mm 1 mm	Raine & Sales St					GR (Granular)
FP (Flood Plain)		SL (Sandy Loam) 0.6 - 0.8 0.4 - 0.6 0.3 - 0.4		MOIST	SBK (Subangular Blocky)		
FS (Foot Slope)	11	L (Loam)	0.6 - 0.8	0.2 - 0.4	0.3 - 0.4	VFR (Very Friable)	WSBK (Weak Subangular Blocky)
H (Head Slope)	4					FR (Friable)	ABK (Angular Blocky)
L (Linear Slope)		SiL (Silt Loam)		0.1 - 0.3		FI (Firm)	PL (Platy)
N (Nose Slope)		SCL (Sandy Clay Loam)	1	0.05 - 0.15*	0.15 - 0.3	EFI (Extremely Firm)	PR (Prismatic)
R (Ridge/Summit)		CL (Clay Loam)	0.3 - 0.6				MA-RCF (Massive Rock Controlled Fabric)
S (Shoulder Slope)		SiCL (Silty Clay Loam)	1	N/A		WET	AR (Auger Refusal)
T (Terrace)		Si (Silt)	1			NS (Non-Stick)	
TS (Toe Slope)	1000	THE BUILDING	Control of		ALTERS.	SS (Slightly Sticky)	
		SC (Sandy Clay)				S (Sticky)	
	IV	SiC (Silty Clay)	0.1 - 0.4	N/A	0.05 - 0.2	VS (Very Sticky)	
		C (Clay)	7			NP (Non-plastic)	
	1	and the same of the same		A. E. Francisco		SP (Slightly Plastic)	
	O (Organ	nic)	N/A	N/A	N/A	P (Plastic)	
	THE REAL	DESCRIPTION OF THE PROPERTY OF			EndS /	VP (Very Plastic)	
NOTES:							
SAPROLITE*	*Sandy o	lay loam saprolite can only	be used with advanc	ed pretreatment	in accordance	with 15A NCAC 18E .1200.	
HORIZON DEPTH	In inches	below natural soil surface					
DEPTH OF FILL	In inches	In inches from land surface					
RESTRICTIVE HORIZON	Thicknes	Thickness and depth from land surface					
SAPROLITE	S (suitab	le) or U (unsuitable)					
SOIL WETNESS	Inches fr	om land surface to free wat	er or inches from land	d surface to soil	colors with ch	roma 2 or less - record Munsel	color chip designation
CLASSIFICATION	S (Suitab	ele) or U (Unsuitable)					
Long-term Acceptance Rate (L	TAR): gal/day/fl	2					



Initial System	Repair System	LEGEND	
System Type: IIB, Gravity (At-Grade w/ cover	System Type: IIB, Gravity (At-Grade w/ cover)	Initial System ————	
Line Numbers: 1-3 Total Footage: 300'	Line Numbers: 4-5 Total Footage: 300'	Repair System 💢	
Accepted Status System (25% Reduction)	Accepted Status System (25% Reduction)		
Soil LTAR: 0.40	Soil LTAR: 0.40	ST 1000 Gallon Min. Septic Tank	
12" Maximum Trench Depth	12" Maximum Trench Depth	PT 1000 Gallon Min. Pump Tank	

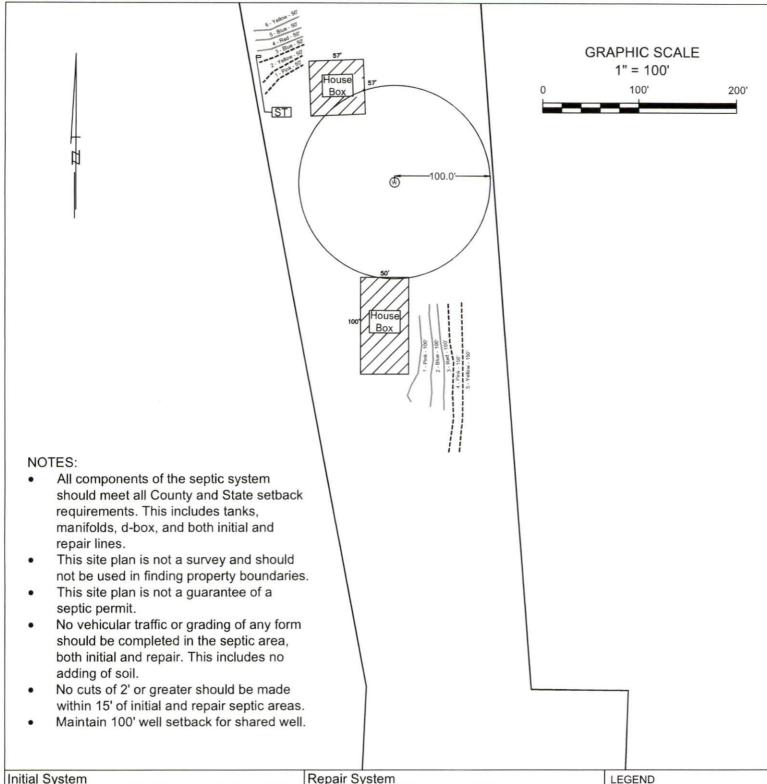


North Lakes Soil Consulting, PLLC

3325 Jones Lake Road, Fuquay Varina, NC 27526

	Address:	Lot: NA	Draw Date	11/30/2024	
-	Johnsonville School Road	Revision			
	Harnett County, NC		Revision		
	Septic System Layout: Initial & I	Repair	Drawn By JMM		
N	Bedroom Count: 3-Bedroom	Project #: 2	4-035		

			NORTH	LAKES SOIL CO	NSULTING, PLLC			
				Layout Stakin	g Sheet			
			Johnso	nville School Roa	d - Harnett County			
			Proposed - 1	New Single-Family	Residence (3-Bedroom)			
Project #:	24-035							
	ТВМ	5.1						
LINE#	FLAG COLOR	DC (6)		FS (ft)			FLAGGED LINE LENGTH (ft)	DESIGN LINE LENGTH (ft)
1	Pink	BS (ft)		5.3			100	100
2	Blue			5.7			109	100
3	Red			6.3			110	100
4	Pink			6.6			154	150
5	Yellow			6.7			155	150
5	reliow			0.7			100	100
						Total:	628	600
								-
						NA VINALINA		
						MAXIMUM TRENCH		
	DESIGN LINE	SOIL LTAR		DESIGN LTAR*	DRAINFIELD PRODUCT	DEPTH	DISTRIBUTION	DESIGN FLOW
SYSTEM AREA	LENGTH (ft)	(GPD/FT2)	SYSTEM TYPE	(GPD/FT2)	TYPE	(Inches)	METHOD	(GPD)
		15/17/09/4/12/1			Accepted (25% Reduction)			
System	300	0.400	IIB	0.300	At-Grade w/ cover	12"	Gravity - Parallel	360
					Accepted (25% Reduction)			
Repair	300	0.400	IIB	0.300	At-Grade w/ cover	12"	Gravity - Parallel	360
NOTES:	1) TBM - House (
	2) TBM is assume	ed to be 100.00						
	3) All measures in	feet.						
	4) Nitrification line	es are demonstra	ted on contour via c	olored pin flags.				
	5) Initial System I	ines (1-3), Repa	ir System Lines (4-5	5)				
	6) BS, FS indicate	e rod readings.						
					and accounts for slope correcti			



Initial System		Repair System	LEGEND		
System Type: IIB, Grav	rity (At-Grade w/ cover)	System Type: IIB, Grav	Initial System		
Line Numbers: 1-3	Total Footage: 300'	Line Numbers: 4-5	Total Footage: 300'	Repair System	
Accepted Status System	Accepted Status System (25% Reduction)		Accepted Status System (25% Reduction)		
Soil LTAR: 0.40		Soil LTAR: 0.40	ST 1000 Gallon N	/lin. Septic Tank	
12" Maximum Trench Depth		12" Maximum Trench Depth		PT 1000 Gallon Min. Pump Tank	

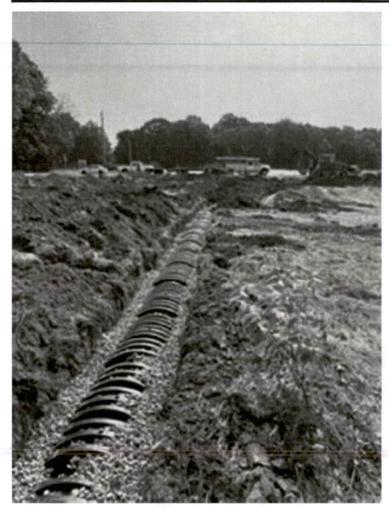


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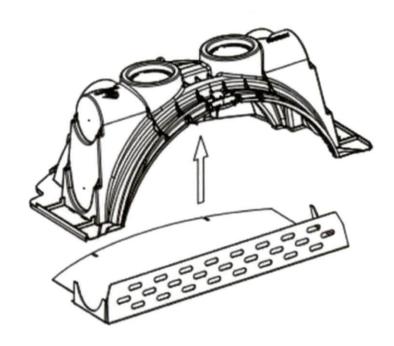
	Address:	Lot: NA	Draw Date	11/30/2024
-	Johnsonville School Road		Revision	
	Harnett County, NC		Revision	
	Septic System Layout: Initial &	Repair	Drawn By	JMM
	Bedroom Count: 3-Bedroom	Project #: 24-035		

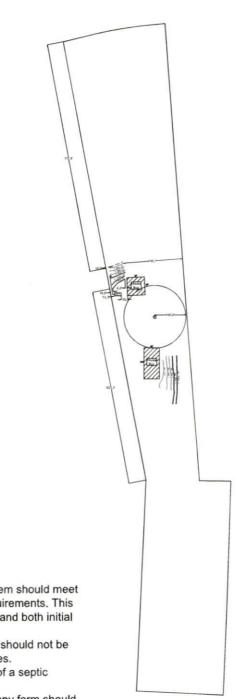
Gravel over Chamber Trench Louvers Detail:



High Flow Splash Plate and End Cap:







NOTES:

- All components of the septic system should meet all County and State setback requirements. This includes tanks, manifolds, d-box, and both initial and repair lines.
- This site plan is not a survey and should not be used in finding property boundaries.
- This site plan is not a guarantee of a septic
- No vehicular traffic or grading of any form should be completed in the septic area, both initial and repair. This includes no adding of soil.
- No cuts of 2' or greater should be made within 15' of initial and repair septic areas.
- Maintain 100' well setback for a shared well.

	GRAPHIC SCAL 1" = 200'	E
0	200'	400

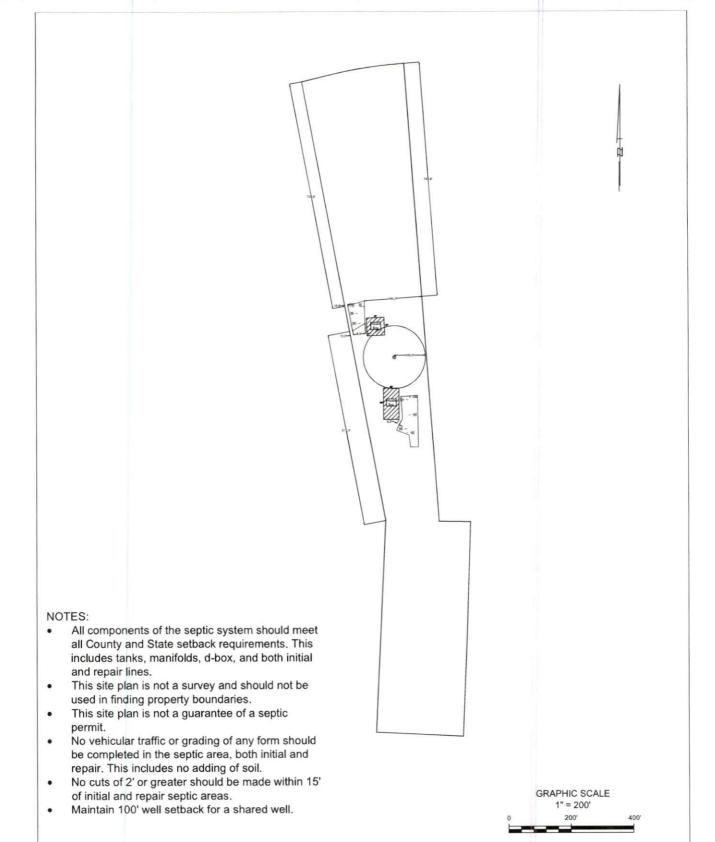
Initial System		Repair System		LEGEND
System Type: IIB, Gravity (At-Grade w/ cover)		System Type: IIB, Gravity (At-Grade w/ cover)		Initial System
Line Numbers: 1-3	Total Footage: 300'	Line Numbers: 4-5	Total Footage: 300'	Repair System ———
Accepted Status System (25% Reduction)		Accepted Status System (25% Reduction)		Not Used
Soil LTAR: 0.40		Soil LTAR: 0.40		ST 1000 Gallon Min. Septic Tank
12" Maximum Trench Depth		12" Maximum Trench Depth		PT 1000 Gallon Min. Pump Tank



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Address:	Lot: N/A	Draw Date	11/30/2024
Johnsonville School Road		Revision	
Harnett County, NC		Revision	
Septic System Layout: Initial & Repair		Drawn By	JMM
Redroom Count: 3-Redroom		Project #: 24-035	



Initial System		Repair System		LEGEND	
System Type: IIB, Gravity (At-Grade w/ cover)		System Type: IIB, Gravity (At-Grade w/ cover)		Usable Soil Area	
Line Numbers:	1-3	Total Footage: 300'	Line Numbers: 4-5	Total Footage: 300'	Soil Boring Location ×
Accepted Status System (25% Reduction)		Accepted Status System (25% Reduction)			
Soil LTAR: 0.40		Soil LTAR: 0.40		ST 1000 Gallon Min. Septic Tank	
12" Maximum Trench Depth		12" Maximum Trench Depth		PT 1000 Gallon Min. Pump Tank	



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Address:	Lot: N/A	Draw Date	11/30/2024
Johnsonville School Road		Revision	
Harnett County, NC		Revision	
Septic System Layout: Initial & Repair		Drawn By	JMM
Bedroom Count: 3-Bedroom		Project #: 24-035	