Permit/File #:	



ROY COOPER . Governor

KODY H. KINSLEY · Secretary

MARK BENTON · Chief 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: 051	9-69-9441.000
Issued To: LGI Hom	
	7 Camp Rock Road, Lillington, NC
	Boone Trail Village Phase 1 Lot #: 51 Block: Section:
LSS Report Provided: Ye	
If yes, name and license	number of LSS: Scott Mitchell - 1237
New 🔳	Expansion System Relocation Change of Use Family Dwelling Unit
	Number of Occupants: 8 or less Other:
Design Wastewater Stre	
	Flow: 480 GPD Proposed LTAR (Initial): 0.35 Proposed LTAR (Repair): 0.35
Proposed Wastewater S	
Proposed Wastewater S	
*Please include system o	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)): No Saprolite System (Repair): Yes No
Fill System (Initial): Y	res 🔳 No If yes, specify: 🗌 New 🔲 Existing (when adding more than 6 inches of fill to system area provide a fill plan)
	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 (Initi	ial)*: 36"+ Usable Depth to LC (Repair)*: 36"+ * Limiting Condition
	ial)*: 24 inches Max. Trench Depth (Repair)*: 24 inches *Measured on the downhill side of the trench
	ired: Yes No If yes, please specify details:
	Private well Public well Shared well Municipal Supply Spring Other:
	ts requirements of Rule .0508: Yes 🔳 No 🗌 Drainfield location meets requirements of Rule .0601: Yes 🔳 No 🗌
Permit valid for: Five	e 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 re No cutting, grading, a Maintain all required	evocation of the Site Plan or Plat chapges, or if the intended use changes, including bedroom count. alterations, or utilities allowed in septic area.
Licensed Soil Scientist Pr	rint Name: Scott Mitchell
Licensed Soil Scientist Si	January 9, 2025
т	he LSS evaluation is being submitted pursuant to and meets the regulrements of G.S. 130A-335(a2).

See attached site sketch



Permit/File #: _	

This Section for Local Health Department Use Only

	Initial submittal received:			
		Date	Initials	
G.S. 130A-335(a3) stat	tes the following:			
department, the common for within five business days of Permit includes all of the re- shall notify the applicant of department to cure the defi- is complete within five busin	inprovement Permit submits to a local health department developed by the Department, and a soil evaluation receiving the application, conduct a completeness required components. If the local health department dethe components needed to complete the Improvement ciencies in the Improvement Permit. The local health ness days after the local health department receives to the interest of the subsection, the applicant may treat the failure Improvement Permit.	ion pursuant to subsection on pursuant to subsection with the submittal. A content of the termines that the Improvement Permit. The applicant department shall make content additional information	on (a2) of this section, ti determination of compl vement Permit is incom may submit additional a final determination as n from the applicant. If	he local health department shall, eteness means that the Improvement plete, the local health department information to the local health to whether the Improvement Permit the local health department fails to
The review for comple Permit is determined	eteness of this Improvement Permit was co to be:	onducted in accorda	ince with G.S. 130A	a-335(a3). This Improvement
☐ Incomplete (If box	x is checked, information in this section is r	equired.)		
The following items as	re missing:			
Coming of this				4
Copies of this were se	nt to the LSS and the Applicant on	Date		
State Authorized Ager	nt:		Date	:
Complete				
State Authorized Ager	t:		Date	:
attached here. The is for checking with app plat, or the intended of permit is subject to co. The Department, the any liabilities, duties, evaluations, submitta	rmit is issued pursuant to G.S. 130A-335 (suance of this permit in no way guaranted ropriate governing bodies in meeting theis use changes. The Improvement Permit shompliance with the provisions of 15A NCA Department's authorized agents, and the and responsibilities imposed by statute oils, or actions from a licensed soil scientist Expiration Date:	es the issuance of our requirements. The all not be affected C 18E and to the coloral health departer in common law from the coloral for licensed geological series.	ther permits. The is permit is subject by a change in own inditions of this pe ments shall be dis om any claim arisi	permit holder is responsible to revocation if the site plan, nership of the site. This rmit. charged and released from ng out of or attributed to
	See attach	ed site sketch		



Permit/File #: _	
-	

Re-submittal of Improvement Permit

	LHD USE ONLY: This IP resubmittal received:	Date	by	Initials	
The following it	tems are being resubmitted pursuant to G.S. 130A-335	5(a3) for issuance of	of the Impro	ovement Permit:	
is accurate and o	hereby attest that icientist (Print Name) complete to the best of my knowledge and that the p laws, regulations, rules, and ordinances.				
Signature	e of Licensed Soil Scientist	-	Date		
LHD Follow-u	The section below is for Local Health Department use	- CARL	ems noted a	s missing above.	
The review for c Improvement Pe	completeness of this Improvement Permit re-submitte ermit is determined to be:	al was conducted i	n accordan	ce with G.S. 130A	-335(a3). This
	(If box is checked, information in this section is requiems are missing:	red.)			
	ere sent to the LSS and the Applicant on			Date:	,
Complete	d Agent:			Date:	



Harnett County GIS

PID: 130519 0103 56 PIN: 0519-69-9441.000

Account Number: 1500028388

Owner: LGI HOMES NC LLC

Mailing Address: 1450 LAKE ROBBINS DR STE 430 THE WOODLANDS, TX 77380-3294

Physical Address: 127 CAMP ROCK RD LILLINGTON, NC 27546 ac Description: LOT#51 BOONE TRAIL VILLAGE PH1 MAP#2024-600

Surveyed/Deeded Acreage: 0.6
Calculated Acreage: 0.6

outcolated Acreas

Deed Date:

Deed Book/Page: 4144 - 0878 Plat(Survey) Book/Page: 2024 - 600

Last Sale: 2022 - 4
Sale Price: \$2220000
Qualified Code: A
Vacant or Improved: V
Transfer of Split: T

Heated Area: SqFt Building Count: 0

Actual Year Built:

Building Value: \$0

Parcel Outbuilding Value: \$0

Parcel Land Value: 0
Market Value: \$0
Deferred Value: \$0

Total Assessed Value: \$0

Zoning: RA-30 - 0.6 acres (100.0%)
Zoning Jurisdiction: Harnett County

Wetlands: No

FEMA Flood: Minimal Flood Risk

Within 1mi of Agriculture District: Yes

Elementary School: Boone Trail Elementary

Middle School: Western Harnett Middle

High School: Western Harnett High

Fire Department: Boone Trail

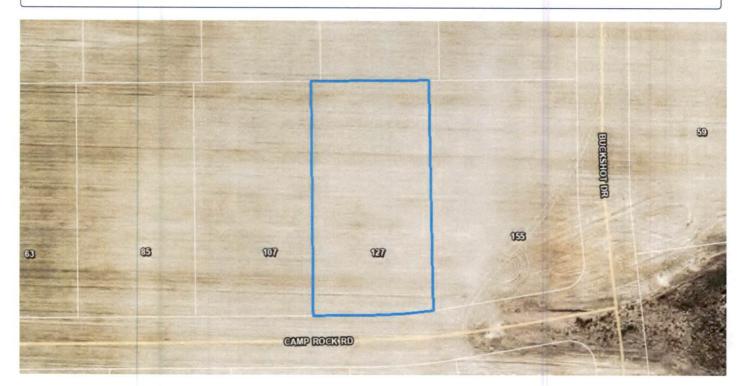
EMS Department: Medic 12, D12 EMS

Law Enforcement: Harnett County Sheriff

Voter Precinct: Boone Trail

County Commissioner : Duncan Edward Jaggers

School Board Member: John Hairr



Mitchell Environmental, P.A.

I hereby authorize representatives of Mitchell Environmental, P.A., to provide subsurface wastewater evaluations and septic system designs on my behalf, for the issuance of an IP and CA, for the property identified below.

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)."

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance with G.S. 130A-335(a2), (a3), (a5), and (a6).

107/127/136/114 Camp Rock Rd.
107/127/136/114 Camp Rock Rd. Subject Property (Address, PIN, etc.): 128 Basne Docks Dr., Lillington N.C.
Property Owner Name (Print): LGT Homes
Owner Representative (<i>Print</i>): <u>Kei Hh</u> Sears
Owner Representative (Sign): Zuit S
Date: /2/26/24

1501 Lakestone Village Lane, Suite 205 Fuquay-Varina, North Carolina 27526 919-669-0329

Mitchell Environmental, P.A.

January 9, 2025

Mr. Robert Putze LGI Homes - NC, LLC 1450 Lake Robbins Drive, Suite 430 The Woodlands, Texas 77380

Re: On-Site Sewage Disposal Site and Soils Evaluation Report for:

Boone Trail Village Subdivision - Lot 51

127 Camp Rock Road, Lillington, Harnett County

Mr. Putze:

At your request, we have completed a site evaluation for use of on-site sewage disposal systems at Lot 51 of Boone Trail Village Subdivision located at 127 Camp Rock Road in Lillington, Harnett County. The site evaluation was completed using hand augers on November 22 and 25, 2024, under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15A NCAC 18E, "Wastewater Treatment and Dispersal Systems". This report was prepared pursuant to and meets the requirements of G.S. 130A-335(a2).

Site Evaluation for Use of On-Site Sewage Disposal Systems:

The evaluation included all usable areas of the property as limited by state and local laws, rules, and regulations. The purpose of the evaluation was to determine the suitability of the site for onsite waste disposal systems per applicable laws, rules, and regulations. "The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."

A soil/site evaluation for use of on-site waste disposal systems on any site in North Carolina must include an evaluation of each of the following criteria: 1) topography and landscape position, 2) soil morphology, 3) soil wetness, 4) soil depth, 5) restrictive horizons and 6) available space. Upon field evaluation of the site, the majority of the lot was confirmed to contain sufficient suitable depth for on-site waste disposal systems.

Most septic systems in North Carolina that include a sub-surface waste disposal element require nitrification trenches to distribute effluent for final treatment. Any nitrification trench that has an associated width (conventional, LPP, LDP, etc.) must be designed to accommodate slope corrections (typically 1 to 4 inches). Slope corrections are based on trench width and cross slope to ensure the minimum separation distance between the trench bottom and an unsuitable soil condition is maintained over the entire trench width. Sloping sites are required to have greater suitable soil depth to accommodate slope correction as opposed to flat sites that require no slope correction. Please note that all proposed lots that utilize sub-surface nitrification fields must have sufficient area for the initial septic system as well as a full repair system. However, the initial and repair systems are not required to be the same type of system, nor are they required to be contiguous. For example, a lot may have a conventional, gravity system installed as the initial septic system and specify an LPP or subsurface drip system for its repair, several hundred feet away from the house or other structure being served.

The number of bedrooms or wastewater design flowrate that any lot will accommodate is entirely dependent upon the usable area of the lot and the long-term acceptance rate (LTAR; LTAR is the

1501 Lakestone Village Lane, Suite 205 Fuquay-Varina, North Carolina 27526 919-669-0329 effluent application rate for a septic system. For conventional systems, the LTAR indicates the number of gallons that can be applied to each square foot of the <u>trench bottom</u> per day. For an LPP or subsurface drip system, the LTAR indicates the number of gallons that can be applied to each square foot of the <u>nitrification field</u> per day. An LTAR of 0.2 gallons per day per ft² (gpd/ft²) will require a nitrification field that is twice as large as a field that has an LTAR of 0.4 gpd/ft².). Assigned LTARs will affect the number of bedrooms or wastewater design flowrate lots will accommodate as illustrated above. LTARs can vary from one location to another on a property. Our observations indicate that the majority of the lot contains sufficient suitable soil depth to accommodate subsurface wastewater systems with an LTAR of 0.35 gpd/ft². Observed suitable soil depths on this site are greater than 36 inches, with LTAR controlling soil textures ranging from sandy clay loam to clay.

Topography on this lot can be generally characterized as a gentle side slope that generally sheds to the east. Based on observed site and soil characteristics, in combination with the proposed plot plan, it is my professional opinion that adequate available space exists on this lot for properly designed septic system drainfields (*initial and repair*) sufficient for one, four-bedroom home.

This site evaluation is based upon the conditions of the site at the time of the evaluation. Any alteration of the site, including compaction, clearing, grading, timbering, etc., could negatively affect the suitability for on-site septic systems. Great care should be exercised during site preparation to protect areas that are to be utilized for septic system nitrification fields. No vehicular or construction traffic should be allowed on these areas. Additionally, no sedimentation and erosion control devices or stormwater collection, treatment, diversion, or dispersal devices should be allowed on or near these areas.

Thank you for the opportunity to provide you with this wastewater system soil suitability evaluation. Do not hesitate to call me if you have any questions or concerns about this evaluation or if you need any additional information.

Sincerely,

Scott Mitchell, PE, LSS President

, DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION ON-SITE WATER PROTECTION BRANCH

Page 1_ of 2 PROPERTY ID #: 0519-69-9441.000 COUNTY: Harnett

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNI	R: LGI Home	e NCIIC		(Complete all i	fields in full)		DA	EE EWALL	ATED: 11/2	E/2024
			ve. Suite 430. T	he Woodlands, TX 7	7380		DA	IE EVALU	ATED: 11/2	5/2024
PROP	OSED FACILITY	: Single-Fami	ly Dwelling Pl	ROPOSED DESIGN I	FLOW (.0400):				E: 0.60 acre	
				127 Camp Rock Roa					ORDED: <u>12/</u>	
	UATION METH			☐ Shared Well ☐					SETBACK:	
EVAL	CATION METH	OD. & Auge	Boring Pit	□ Cut IY	PE OF WASTI	EWAIEK:	△ Domest	ic High	Strength	IPWW
P R O F I			SOIL MORPHOLOGY		GY OTHER PROFILE FACTO			ORS		
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 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
	L, 2%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2					
		E, 6-34	SL, SBK	VFR, NS, NP, NEXP	2.5Y 6/4		1 1			
1		Bt, 34-36+	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6	36+			S, 0.45	1"
	L, 2%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2		- 1			
		E, 6-33	SL, SBK	VFR, NS, NP, NEXP	2.5Y 6/4					
2		Bt, 33-36+	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6	36+			S, 0.45	1"
┝	L, 2%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2					
		E, 6-35	SL, SBK							
3		Bt. 35-36+		VFR, NS, NP, NEXP	2.5Y 6/4					
5		DI, 35-36+	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6	36+	#		S, 0.35	1"
	L, 2%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2					
		E, 6-34	SL, SBK	VFR, NS, NP, NEXP	2.5Y 6/4					
4		Bt, 34-36+	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6	36+			S, 0.40	1"
D	ESCRIPTION	INITIAL SYS	TEM REPAIR S	SYSTEM						
V	le Space (.0508)	Yes	Ye		SIFICATION	0509)	Suitable			
	Type(s)	IIb	IIIE	EVALUAT	EVALUATED BY: S			nell / Adam /	Aycock	
Site LTA	MR m Trench Depth	0.35 24" on Low	0.35		PRESENT:					
Comme		24 On LOW	Side 24" on Lo	ow side						

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERA		STRUCTURE
CC (Concave slope)		S (Sand)		0.6 - 0.8		MOIST	WET	SG (Single grain)
CV (Convex Slope)	1	LS (Loamy sand)	0.8 - 1.2	0.5 -0.7	0.4 -0.6	Lo (Loose)	NS (Non-sticky)	M (Massive)
D (Drainage way)	п	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)		SiL (Silt loam)		0.1 - 0.3		FI (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)	ш	CL (Clay loam)	0.3 - 0.6		0.15 - 0.3	EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	
R (Ridge/summit)		Si (Silt)		None			VP (Very plastic)	
S (Shoulder slope)		SC (Sandy clay)				SEXP (Slightly	expansive)	
T (Terrace)	IV	SiC (Silty clay)	0.1 - 0.4		0.05 - 0.2	EXP (Expansive)		
TS (Toe Slope)		C (Clay)						
		O (Organic)	None			1		

^{*} Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

HORIZON DEPTH DEPTH OF FILL In inches below natural soil surface

RESTRICTIVE HORIZON

In inches from land surface Thickness and depth from land surface

SAPROLITE

S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.

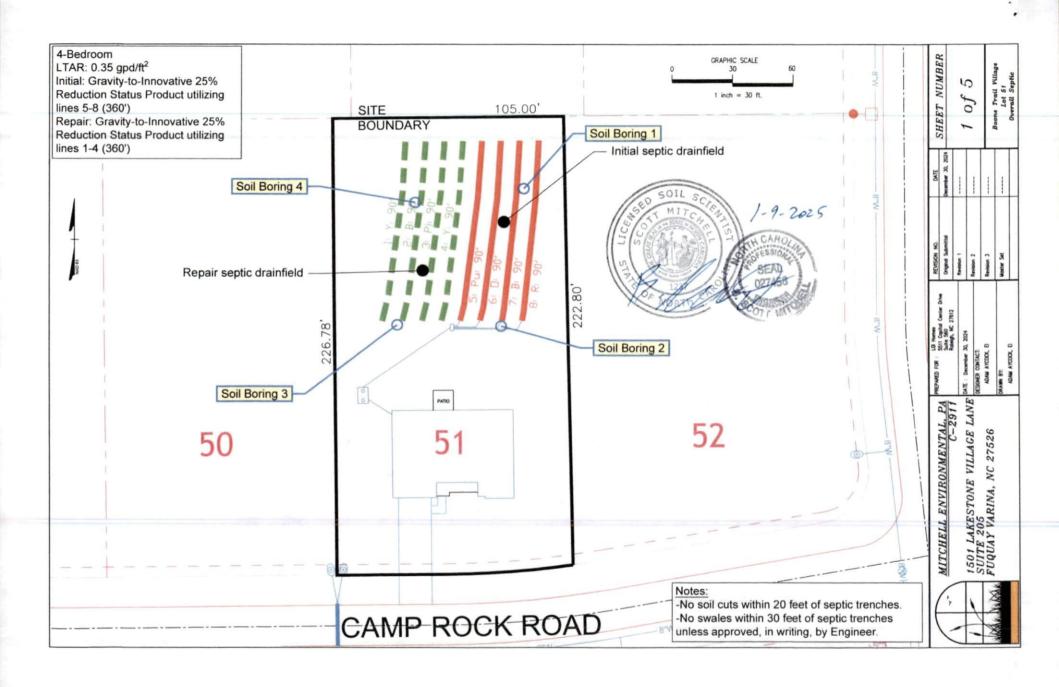
SOIL WETNESS

Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation

CLASSIFICATION S (Suitable) or U (Unsuitable)

Show profile locations and other site features (dimensions, reference or benchmark, and North).

^{**}Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.





Permit/File #:	

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

County: Harnett Pre-Construction Conference Required: Yes No
PIN/Lot Identifier: 0519-69-9441.000
Issued To: LGI Homes NC LLC
Property Location: 127 Camp Rock Road, Lillington, NC
AOWE/PE Plans/Evaluations Provided: Yes No If yes, name and license number of AOWE/PE: Scott Mitchell - PE 27458
Facility Type: Single-Family Dwelling Unit
Number of bedrooms: 4 Number of Occupants: 8 or less Other:
■ New
Basement?
Crawl Space? Yes No Slab Foundation? Yes No
Type of Wastewater System* IIb (Initial) IIIb (Repair
*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII
Design Daily Flow: 480 GPD Wastewater Strength: Domestic High Strength Industrial Process WW
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? Yes (if yes, please provide engineering documentation)
Effluent Standard: DSE HSE NSF/ANSI 40 TS-I TS-II RCW
Type of Water Supply: Private well Public well Shared well Municipal Supply Spring Other:
Installation Requirements/Conditions
Septic Tank Size: 1,000 gallons Total Trench/Bed Length: 360 feet Trench/Bed Spacing: 9 feet on center
26 0.25
Trench/Bed Width: 30 inches LTAR: U.35 gpd/ft² Usable Depth to LC (Initial)*: 30 + **Limiting condition Soil Cover: 12 inches Slope Corrected Maximum Trench/Bed Depth*: 24 inches **Measured on the downhill side of the trench
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): N/A gallons
Distribution Method: Serial D-Box or Parallel Pressure Manifold(s) LPP Other:
Artificial Drainage Required: Yes No I If yes, please specify details:
<u>Legal Agreements</u> (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.) Multi-party Agreement Required [.0204(g)]: ☐ Yes ■ No Declaration of Restrictive Covenants: ☐ Yes ■ No
Easement, Right-of-Way, or Encroachment Agreement Required [.0301(b)]: Yes No Management Entity Required: Yes No Minimum O&M Requirements:
Wanagement Entity Required: Tes No Minimum O&M Requirements:
Permit conditions:
Trench walls shall be raked when any Group III or Group IV soils are present. Photo documentation of trench sidewall raking is required, where Group III or Group IV soils are present.
All lot corners and boundaries shall be clearly marked by a licensed surveyor prior to system installation.
Septic system installation not allowed when soil moisture conditions are near saturation within initial or repair drainfield areas. No garbage disposals / insinkerators allowed in the house. County shall provide system O&M guidance materials to Owner.
The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. <u>This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes.</u> 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 15A NCAC 18E, or 15A NCAC 18A 1900, as applicable, and to the conditions of this permit.
AOWE/PE Print Name: B. Scott Mitchell
AOWE/PE Signature:

See attached site sketch



Pern	nit/File #	:	

This Section for Local Health Department Use Only

	Initial submittal received:	b	у	
		Date	Initials	
G.S. 130A-335(a5) stat	es the following:			
Improvement Permit and Co Department, and any necess engineer or a person certifie department shall, within five the Construction Authorizati determines that the Constru applicant of the components applicant information to the Authorization. The local head Authorization is complete with department fails to act with apply for the building permit Authorization by the local head licensed engineer submitting Authorization or Improveme engineer, the local health de	Instruction Authorization, or an Improvement Permit and Instruction Authorization application together, the persons signed and sealed plans or evaluations conducted by pursuant to Article 5 of Chapter 90A of the General are business days of receiving the application, conduct a gion or Improvement Permit and Construction Authorization or Improvement Permit and Construction Authorization or Improvement Permit and Construction Authorization or Individual and Construction Authorization of the local health department to cure the deficiencies in the local health department or as to a given by the permit and construction for the project upon the decision of completeness of the evaluation pursuant to this subsection may required the permit and Construction Authorization for cause. Use partment shall suspend or revoke the Construction Authority and Constr	mit fee charged by the lot by a person licensed purious an Authorized completeness review of lation includes all of the restriction Authorization is in a lation may be construction Authorization whether the Construction and the Construction and the construction Authorization are the failure to a lation that the failure to a lation and the construction Authorization are the failure to a lation and the construction are the construction and the construction and the construction are the failure to a lation are the construction authorization are fine altion are the local health of the local health at the local health are the local health are the local health of the lation are the lation are the local health of the lation are th	scal health departme, suant to Chapter 890 of On-Site Wastewate the submittal. A dete equired components, no omplete, the local and Construction Authorization or Improvemen in Information from total and construction or Improvements as a determination attitution or Improvements as days. The Authoride partment revoke on the Authorized On-Site Authorized On-Site	nt, the common form developed by the C of the General Statutes as a licensed or Evaluator, the local health remination of completeness means that if the local health department health department shall notify the orization. The applicant may submit to the Permit and Construction to the applicant. If the local health in of completeness. The applicant may and the Permit and Construction to the applicant of completeness. The applicant may are permit and Construction to the subject of the local health in of completeness. The applicant may are permit and Construction are suspend the Construction of the Wastewater Evaluator or the Wastewater Evaluator or licensed.
The review for comple	teness of this Construction Authorization v	vas conducted in acc	cordance with G.	S. 130A-335(a5). This
Construction Authoriza	ation is determined to be:			
☐ Incomplete (If box	is checked, information in this section is re	equired.)		
The following items are	e missing:			
Copies of this were ser	nt to the AOWE/PE and the Applicant on	Date	- 1	
State Authorized Agen	t:		Dat	e:
☐ Complete				
State Authorized Agen	t:		Date of Is	suance:
attached here. This Co Construction Authoriz to compliance with th The Department, the I any liabilities, duties, plans, evaluations, pre the General Statutes a Authorized On-Site Wa agents, and the local hobligations under Stat	horization is issued pursuant to G.S. 130A- construction Authorization is subject to revolution shall not be affected by a change in the provisions of the Laws and Rules for Seven Department's authorized agents, and the land responsibilities imposed by statute or the econstruction conference findings, submits as a licensed engineer or a person certified astewater Evaluator in GS 130A-335(a2), (the ealth departments shall be responsible aster law or rule, including the issuance of the station Expiration Date:	ocation if the site plownership of the site vage Treatment and ocal health department in common law from tals, or actions from pursuant to Article a5), and (a7). The Dod bear liability for the operations permit	an, plat, or the interest te. This Construct Disposal and to ments shall be dismany claim arisma person licenses of Chapter 90 epartment, the their actions and	ntended use changes. The ction Authorization is subject the conditions of this permit. scharged and released from ing out of or attributed to ed pursuant to Chapter 89C of A of the General Statutes as an Department's authorized devaluations and other



Permit/File #: _	

Re-submittal of Construction Authorization

	LHD USE ONLY: This CA resubmittal received	:	by		
		Date		Initials	
The following it	tems are being resubmitted pursuant to G.S. 130A	-335(a5) for issuance o	of the Constru	ection Authoriz	ation:
is accurate and	hereby attest nsite Wastewater Evaluator (Print Name) complete to the best of my knowledge and that the and local laws, regulations, rules, and ordinances.		-		
Signatur	re of Authorized On-Site Wastewater Evaluator		Date		
LHD Follow-ı	The section below is for Local Health Department		ems noted as i	missing above.	
The review for o	completeness of this Construction Authorization ron Authorization is determined to be:		ucted in accor	dance with G.S	5. 130A-335(a5).
	(If box is checked, information in this section is re	quired.)			
Copies of this w	vere sent to the AOWE/PE and the Applicant on _		_		
State Authorize	d Agent:	Date	Da	ite:	
Complete					
State Authorize	d Agent:		Da	ite:	



Permit/File #:

ADDENDUM TO G.S. 130A-335(a2) SUBMITTAL

County:		
PIN/Lot Identifier:		
Issued To:		
Additional Improvement Permit Conditions:		
1		
=		
Additional Construction Authorization Conditions:		
	4	
		1.5
		Ţ.

Mitchell Environmental, P.A.

I hereby authorize representatives of Mitchell Environmental, P.A., to provide subsurface wastewater evaluations and septic system designs on my behalf, for the issuance of an IP and CA, for the property identified below.

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)."

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance with G.S. 130A-335(a2), (a3), (a5), and (a6).

107/127/136/114 Camp Rock Rd.
107/127/136/114 Camp Rock Rd. Subject Property (Address, PIN, etc.): 128 Boone Docks Dr., Lillington NC 2
Property Owner Name (Print): LGT Homes
Owner Representative (<i>Print</i>): Keith Sears
Owner Representative (Sign): Zuitl S
Date: /2 /2/4 /24

1501 Lakestone Village Lane, Suite 205 Fuquay-Varina, North Carolina 27526 919-669-0329

Mitchell Environmental, P.A.

SEPTIC SYSTEM DESIGN

for

BOONE TRAIL VILLAGE SUBDIVISION-LOT 51

Lillington, Harnett County, North Carolina

Submitted to:

Harnett County Health Department 307 Cornelius Harnett Blvd. Lillington, NC 27546

Prepared for:

LGI Homes 5511 Capital Center Drive Suite 560 Raleigh, North Carolina 27612

Prepared by:

Scott Mitchell, PE, LSS Adam Aycock, El

DATE: December 30, 2024 PROJECT NO.: 1624

Solve Solve

1501 Lakestone Village Lane, Suite 205 Fuquay-Varina, North Carolina 27526 919-669-0329



Harnett County GIS

PID: 130519 0103 56 PIN: 0519-69-9441.000

Account Number: 1500028388

Owner: LGI HOMES NC LLC

Mailing Address: 1450 LAKE ROBBINS DR STE 430 THE WOODLANDS, TX 77380-3294

Physical Address: 127 CAMP ROCK RD LILLINGTON, NC 27546 ac

Description: LOT#51 BOONE TRAIL VILLAGE PH1 MAP#2024-600

Surveyed/Deeded Acreage: 0.6

Calculated Acreage: 0.6

Deed Date: 1650949200000

Deed Book/Page: 4144 - 0878
Plat(Survey) Book/Page: 2024 - 600

Last Sale: 2022 - 4
Sale Price: \$2220000
Qualified Code: A
Vacant or Improved: V

Transfer of Split: T Actual Year Built: Heated Area: SqFt

Building Count: 0

Building Value: \$0

Parcel Outbuilding Value: \$0

Parcel Land Value: 0
Market Value: \$0
Deferred Value: \$0

Total Assessed Value: \$0

Zoning: RA-30 - 0.6 acres (100.0%)
Zoning Jurisdiction: Harnett County

Wetlands: No

FEMA Flood: Minimal Flood Risk

Within 1mi of Agriculture District: Yes

Elementary School: Boone Trail Elementary

Middle School: Western Harnett Middle

High School: Western Harnett High

Fire Department: Boone Trail

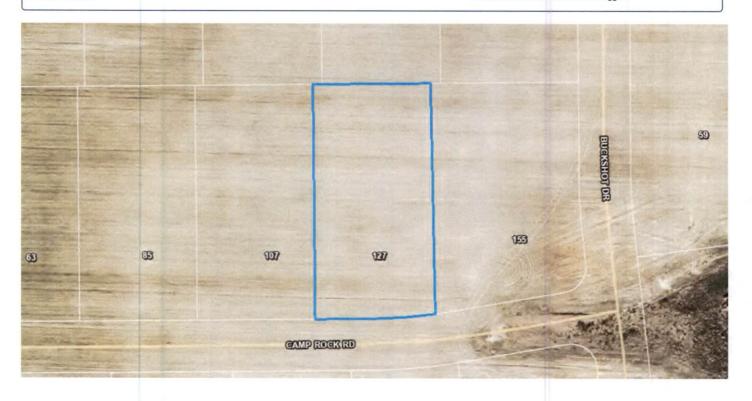
EMS Department: Medic 12, D12 EMS

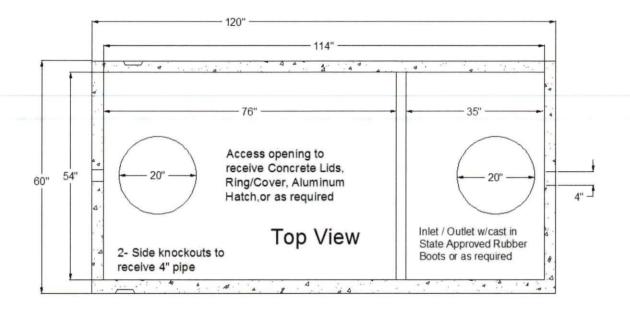
Law Enforcement: Harnett County Sheriff

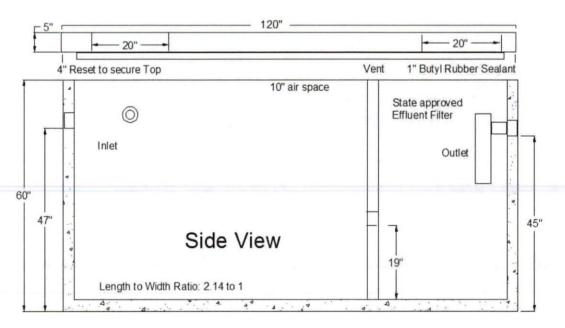
Voter Precinct: Boone Trail

County Commissioner: Duncan Edward Jaggers

School Board Member: Duncan Jaggers







STB - 345 - Top Seam

Approval Date: 12 - 09 - 99

Liquid Capacity 1007 Gallons

Non Traffic Rated

Reinforcing Schedule: # 3 Grade 60 Rebar 4500 PSI Concrete w/ State Approved Structural Fiber

Est. Weight: 8,200 lbs.

Manufactured By:

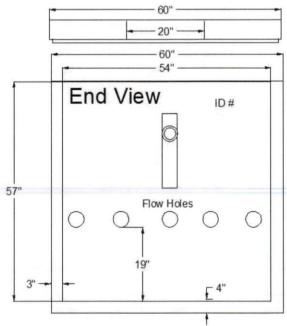


Eddie Garner, President 919-718-5181

121 Stanton Hill Road Carthage, NC 28327

Fax 919-775-2229

Eddie@garnersseptictanks.com





PL-68 Filter and Tee

PL-68 is much more than just an effluent filter. The housing can also be used as an inlet baffle (tee) or an outlet baffle. The housing is designed to accept Polylok's snap in gas deflector to deflect gas bubbles away from the tee and to keep the solids in the tank.

Features:

- Offers 68 linear feet of 1/16" filter slots, which significantly extends time between cleaning.
- Accepts 3/4" PVC handle.
- Locks in any 360° position when used with PL-68 Tee.
- PL-68 Housing can be used as an inlet or outlet tee.
- · Gasket prevents bypass.

PL-68 Installation:

Ideal for residential waste flows up to 800 gallons per day (GPD). Easily installs in any new or existing 4" outlet tee.

- 1. Locate the outlet of the septic tank.
- 2. Remove the tank cover and pump tank if necessary.
- Glue the filter housing to the outlet pipe, or use a Polylok Extend & Lok if not enough pipe exists.
- 4. Insert the PL-68 filter into tee.
- 5. Replace and secure the septic tank cover.

PL-68 Maintenance:

The PL-68 Effluent Filter will operate efficiently for several years under normal conditions before requiring cleaning. It is recommended that the filter be cleaned every time the tank is pumped, or at least every three years.

- 1. Do not use plumbing when filter is removed.
- 2. Pull PL-68 out of the tee.
- Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
- 4. Insert filter back into tee/housing.

Related Products:

PL-68 Filter Concrete Baffle Extend & Lok™



Extend & Lok™
Easily installs
into existing tanks.



to 110mm Pipe

to SDR 35



GEOSYNTHETIC AGGREGATE TECHNOLOGY



EZflow by Infiltrator is an environmentally friendly replacement to traditional stone and pipe drainfields using an engineered geosynthetic aggregate modular design. The EZflow system is designed to improve infiltration performance by eliminating the fines associated with crushed stone, and reducing compaction and embedment associated with stone. Preassembled units include a 3" or 4" perforated pipe surrounded by aggregate and held in place with a durable high-strength netting. This product comes in easy-to-contour 5' and 10' lengths and in diameters of 7, 8, 9, 10, 12, 13, or 14 inches.

Lightweight expanded polystyrene

construction offers structural integrity and resists compaction. Engineered flow-channels increase void space creating improved water flow and greater storage.





Compared with stone and pipe, benefits include:

- · Always clean and free of fines
- Bundles are quick to install, saving costs on heavy machinery and labor
- Modular construction allows configurations to match trench dimensions for most system shapes and sizes
- · Engineered for optimal storage and absorption efficiencies
- Ability to contour along sloped sites and around trees or landscaping
- · Lightweight system is perfect for repairs and tight job sites
- · Easily hand-carried into position reducing time and labor
- 5' or 10' lengths with simple snap, internal couplers
- · Easier cleanup at the job site with the elimination of stone
- Manufactured from recycled materials rather than a mined natural resource
- A wide variety of diameters and configurations to meet any installation professional's needs
- Approved in many jurisdictions with an increased efficiency rating, reducing drainfield size
- · Backed by the leader in the onsite wastewater industry

Bundle System Configurations: Available in 7", 8", 9", 10", 12", 13" and 14" diameter bundles.



0801P-GEO 1401P-GEO 1201P-GEO 1801P-GEO 1001P-GEO



Triangular Bundle

1003T-GEO 1303T-GEO 1203T-GEO 1403T-GEO



Horizontal Bundles

0705H-GEO 1303H-GEO 0904H-GEO 1202H-GEO 1002H-GEO 1203H-GEO



1206H-GEO 1402H-GEO 1303H-GEO 1802H-GEO



Vertical Bundles

1002V-GEO 1006V-GEO 1003V-GFO 1202V-GEO 1004V-GEO



1203V-GEO 1206V-GEO 1204V-GEO 1402V-GEO

Notes:

- 1. Other systems include 10" and 12" bed systems. Bed size will dictate the number of bundles.
- 2. System dimensions are dependent upon bundle diameter and configuration.
- 3. LLP is for "Low Pressure Pipe" in which a pressurized distribution pipe is field installed within the corrugated pipe.
- 4. Internal pipe and couplings meet the requirements of ASTM F405.
- 5. Bundles are also available without geotextile between the netting and synthetic aggregrate.

INFILTRATOR WATER TECHNOLOGIES STANDARD LIMITED WARRANTY

(a) The structural integrity of each EZflow by Infiltrator expanded polystyrene drainfield system and other accessories manufactured by EZflow by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by EZflow by Infiltrator to be covered by this Limited Warranty. EZflow by Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR **PURPOSE**

(c) This Limited Warranty shall be void if any part of the EZflow system is manufactured by anyone other than EZflow by Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units: the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions: the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

EZ01 0315AG

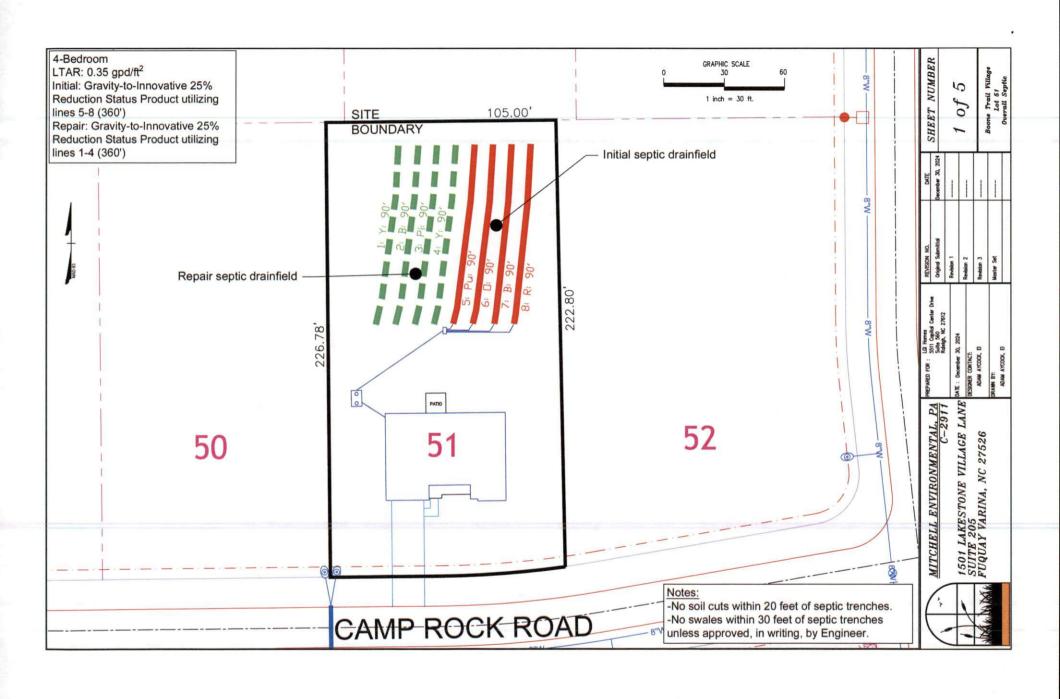


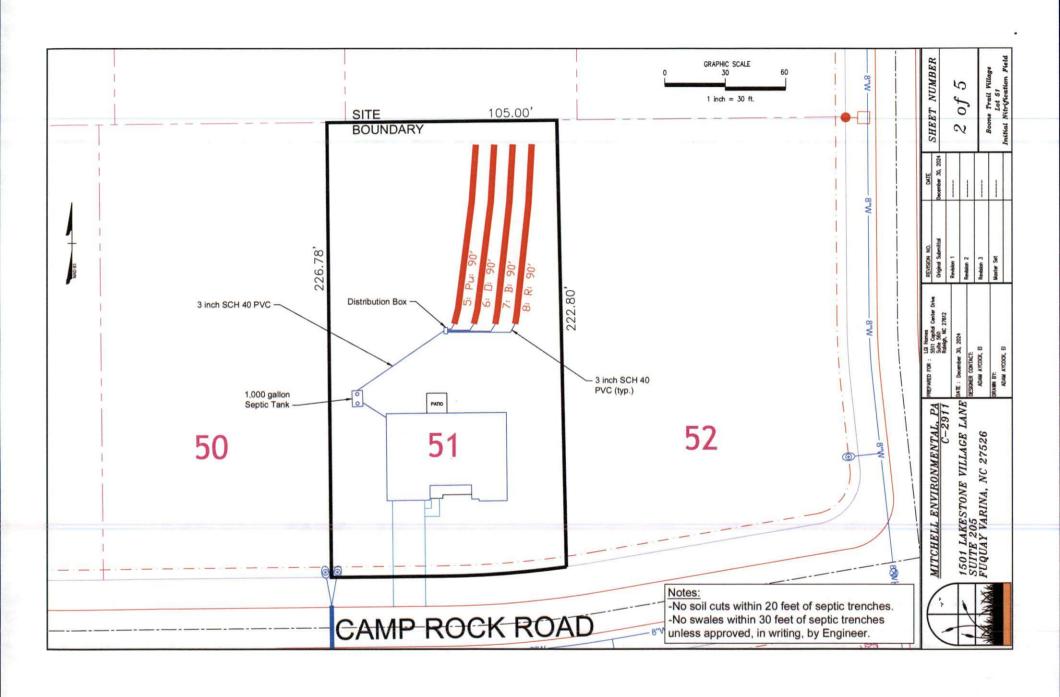
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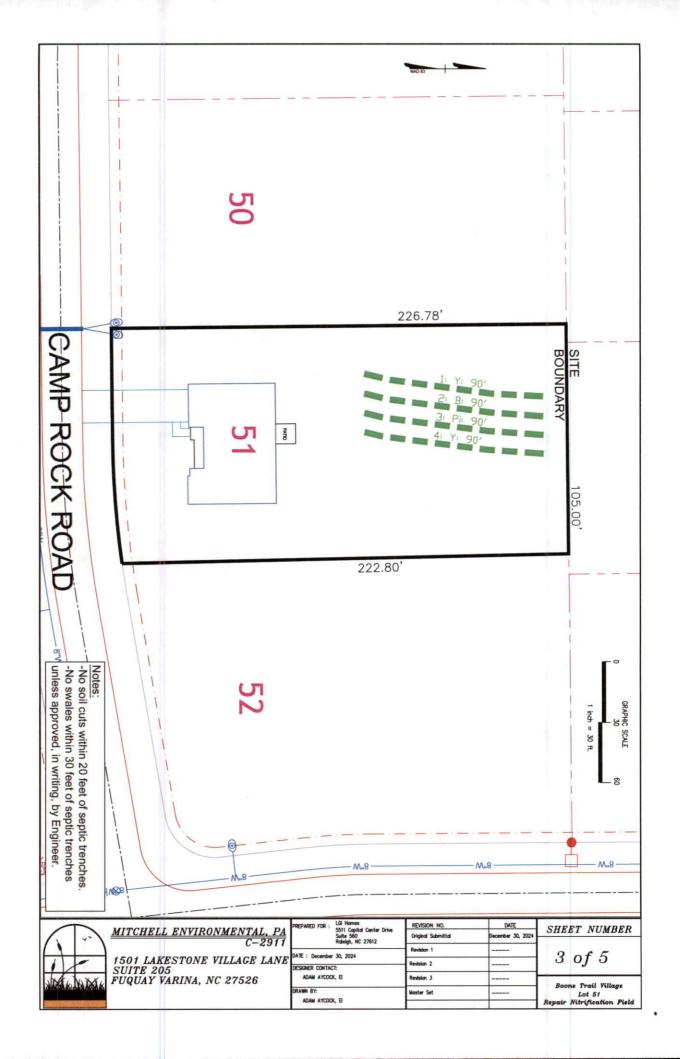
4 Business Park Road P.O. Box 768 Old Saybrook, CT 06475 860-577-7000 · Fax 860-577-7001 1-800-221-4436

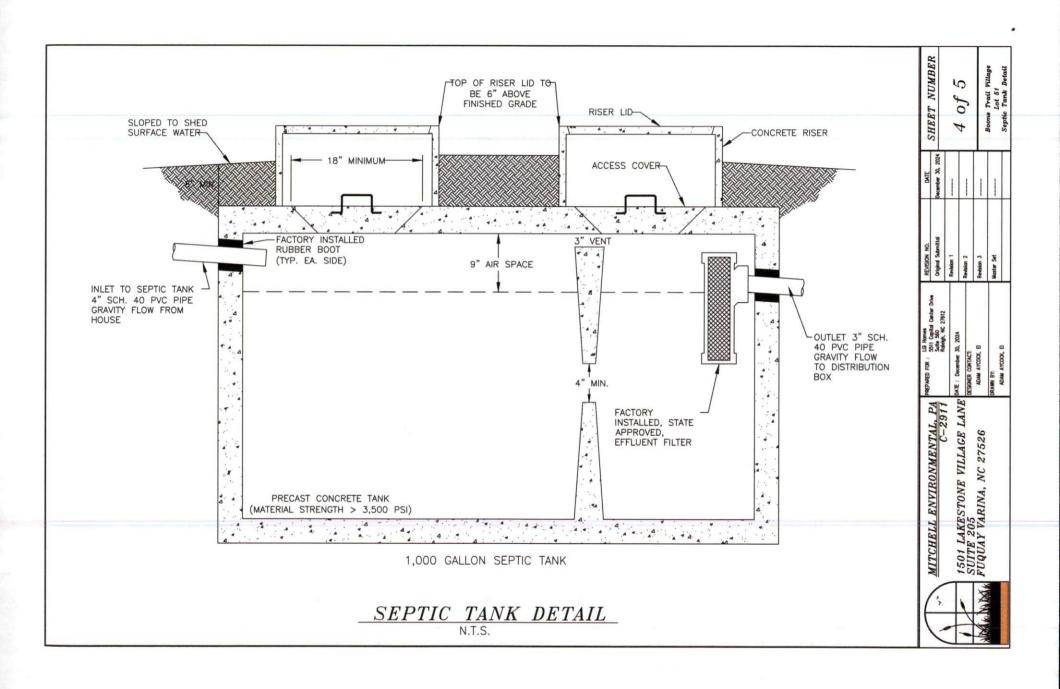
www.infiltratorwater.com

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending, Infiltrator Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator is a registered trademark in France. Infiltrator Water Technologies is a registered trademark in Mexico. Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Water Technologies. PolyLok is a trademark of PolyLok, Inc. TUF-TITE is a registered trademark of TUF-TITE, INC. Ultra-Rib is a trademark of IPEX Inc.



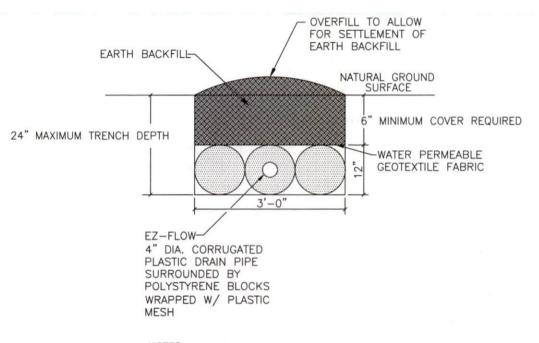






NITRIFICATION TRENCH DETAIL FOR EZ-FLOW

N.T.S.



NOTES:

- PERFORATED CORRUGATED PLASTIC PIPE SHALL MEET REQUIREMENTS OF ASTM D 2729.
- 2. PIPE SHALL BE LEVEL.
- ENDCAP SHALL BE PROVIDED AT END OF ALL CORRUGATED PLASTIC PIPE LINES.
- 4. TRENCH BOTTOM SHALL BE LEVEL.
- HAND RAKE TRENCH WALLS PRIOR TO PLACEMENT OF TRENCH MEDIA IF SOIL SMEARING IS PRESENT.

,		PREPARED FOR: LG Homes	REVISION NO.	DATE	dadhiik waans
7	MITCHELL ENVIRONMENTAL, PA	Suffe 560	Original Submittal	December 30, 2024	SHEET NUMBER
-	C-2911	Rdeigh, NC 27612			
7		DATE: December 30 2024	Revision 1	-	7 40 7
_	1501 LAKESTONE VILLAGE LANE	1207 'DO BIGHING . THE	6		0 0 0
	SILTER 205	DESIGNER CONTACT:	Kewston 2	-	,
1	מסידות אחרות	III ADDAM TATOR	Budden 3		
I TY	FUQUAY VARINA, NC 27526		Acres o		B
10.10		DRAWN BY:	Moster Set	-	Lot 51
		ADAM AYCOCK, B			Trench Detail