

Subsurface Wastewater Disposal System Design Packet

PIN:

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PAC-ONE, PLLC

Subsurface Wastewater Disposal System Design Packet

Date:

Proposed for a:
-bedroom residential dwelling

Located at:

DESIGNED BY:

Steve Bristow

920 Garner Rd, Selma NC 27576

Email: stevebristow57@gmail.com

Phone: (919)906-4737

Session Law 2022-11 (S372) Introduction Letter

This information contained within this packet concerns a soils and subsurface wastewater evaluation conducted by:

Stephen W. Bristow (LSS#1167) of Permit Acquisition Company – One, PLLC

for the property hereaf	ter described as	5:	
at the behest of:			
Owner Print:			
Owner Signature:			
Owner's Representative	e (if any):	Natascha Clark	
Date:			

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

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

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





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

Application for Services

This application, in conjunction with the common form established in G.S. 130A-335(a3) and (a5), is optional for local health departments to be used for applications submitted in accordance with G.S. 130A-335(a2), (a3), and (a5). [hereinafter, G.S. 130A-335(a3) and (a5) permits referred to as (a2) Improvement Permit and (a2) Construction Authorization]

Applying for: [(a2) Improvement Permit [(a2) Construction Author	rization (a2) Repair/Construction Authorization
If applying for a Construction Authorization, please indicate desire Accepted Conventional Innovative Other	
 New Construction □ Expansion □ System Relocation □ S-Year Expiration Requested (site plan provided) □ Non-Exp Requesting DHHS review? (systems >3000 GPD or IPWW) □ Yes 	iring Permit Requested (plat provided, defined in G.S.130A-334(7a)
Applicant:	Owner:
Mailing Address:	Mailing Address:
City:	City:
State: Zip:	State: Zip:
Phone #:	Phone #:
Email:	Email:
If the answer to any of the following questions is "yes", applican	· · · · · · · · · · · · · · · · · · ·
Yes No Does the site contain any jurisdictional	
	ed on the site other than domestic sewage?
Yes No Is the site subject to approval by any ot Yes No Are there any easements or right of wa	
res No Are there any easements of light of wa	ys on this property:
are to be used to issue an Improvement Permit and/or Construct I understand that authorized county and state officials are grant conduct necessary inspections to determine compliance with ap the application for an Improvements Permit and/or Construction then the Improvement Permit and Construction Authorization is	oplicable laws and rules. I understand that if the information in on Authorization is falsified, changed, or the site is altered, shall become invalid.
Applicant Signature:	Date:
Owner's Signature:	Date:

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	n
	IMPROVEM	IENT PERMIT FOR G.S. 130A-3	35(a2)
County:			
Issued To:			
Subdivision (if applicab	ole)	Lot #:	Block: Section:
LSS Report Provided: Y	/es No No		
If yes, name and license	e number of LSS:		
New 🗌	Expansion	System Relocation	Change of Use
Facility Type:			
Number of bedrooms:	Number of Occupants:	Other:	
Design Wastewater Str	ength: Domestic	High Strength Indus	strial Process Wastewater
	Flow: GPD		Proposed LTAR (Repair):
Proposed Wastewater	System Type*:	(Initial) Pump R	Required: Yes No May be required
Proposed Wastewater	System Type*:	(Repair) Pump R	Required: Yes No May be required
*Please include system	classification for proposed wastew	vater system types in accordance with Ru	ule .1301 Table XXXII
Effluent Standard:	DSE HSE NSF/ANSI 40	TS-I TS-II RCW	
Saprolite System (Initia	al): 🗌 Yes 🔲 No Saprolite	e System (Repair): 🗌 Yes 📗 No	
Fill System (Initial):	Yes No If yes, specify: Ne	w Existing (when adding more than	n 6 inches of fill to system area provide a fill plan)
Fill System (Repair):	Yes No If yes, specify: No	ew Existing (when adding more tha	an 6 inches of fill to system area provide a fill plan)
Usable Depth to LC (Ini	itial) ^x :	Usable Depth to LC (Repair)x:	x Limiting Condition
Max. Trench Depth (Ini	itial)‡: Max. Tre	ench Depth (Repair) [‡] :	[‡] Measured on the downhill side of the trench
Artificial Drainage Requ	uired: Yes No If yes, pleas	se specify details:	
Type of Water Supply:	Private well Public well	Shared well Municipal Supply	y Spring Other:
Drainfield location mee	ets requirements of Rule .0508: Yes	s No Drainfield location mee	ets requirements of Rule .0601: Yes \(\text{No} \)
Permit valid for: Tiv	/e years [site plan submitted pursua	ant to GS 130A-334(13a)] No expira	ation [plat submitted pursuant to GS 130A-334(7a)]
Permit conditions:			

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

See attached site sketch



Licensed Soil Scientist Print Name:

Licensed Soil Scientist Signature: _ Alan Buter

Date: __



This Section for Local Health Department Use Only

Initial submittal received:	.	by	
	Date	Initials	
G.S. 130A-335(a3) states the following:			
When an applicant for an Improvement Permit submits to a local health de department, the common form developed by the Department, and a soil even within five business days of receiving the application, conduct a completen Permit includes all of the required components. If the local health department shall notify the applicant of the components needed to complete the Improdepartment to cure the deficiencies in the Improvement Permit. The local his complete within five business days after the local health department receased within any period set out in this subsection, the applicant may treat the common form for use as the Improvement Permit.	valuation pursuant to subsites review of the submitta ent determines that the Imprement Permit. The application ealth department shall move the application of the application of the apartment shall move the additional inform	ection (a2) of this section, the local health do l. A determination of completeness means to provement Permit is incomplete, the local hant may submit additional information to the lake a final determination as to whether the lation from the applicant. If the local health	epartment shall, hat the Improvement ealth department ne local health Improvement Permit department fails to
The review for completeness of this Improvement Permit w Permit is determined to be:	as conducted in acco	rdance with G.S. 130A-335(a3). Th	is Improvement
☐ Incomplete (If box is checked, information in this section	on is required.)		
The following items are missing:			
8/5// 33	1		
	4 9		
Copies of this were sent to the LSS and the Applicant on	Date		
State Authorized Agent:		Date:	
☐ Complete	63		
State Authorized Agent:	1-1/-	Date:	
This Improvement Permit is issued pursuant to G.S. 130A-attached here. The issuance of this permit in no way guar for checking with appropriate governing bodies in meeting plat, or the intended use changes. The Improvement Permit is subject to compliance with the provisions of 15A. The Department, the Department's authorized agents, and any liabilities, duties, and responsibilities imposed by state evaluations, submittals, or actions from a licensed soil scients.	antees the issuance of their requirements. nit shall not be affect. NCAC 18E and to the dthe local health depute or in common lawentist or licensed geo	of other permits. The permit holde This permit is subject to revocation ed by a change in ownership of the e conditions of this permit. eartments shall be discharged and or from any claim arising out of or a	er is responsible on if the site plan, e site. This released from attributed to

See attached site sketch

2



Permit/File #:

Re-submittal of Improvement Permit

	LHD USE ONLY: This IP resubmittal received: _	Date	by	
Γhe following i	items are being resubmitted pursuant to G.S. 130A-3	335(a3) for issuance	of the Improvement Permit	:
	LE SI	ATF	<i>M</i>	
s accurate and	hereby attest the Scientist (Print Name) complete to the best of my knowledge and that the laws, regulations, rules, and ordinances.		required to be included wit ment Permit meets all app	
Signatur	re of Licensed Soil Scientist		Date	
LHD Follow-ı	The section below is for Local Health Department u		tems noted as missing above.	
	completeness of this Improvement Permit re-submi Permit is determined to be:	ittal was conducted	in accordance with G.S. 13	0A-335(a3). This
·	e (If box is checked, information in this section is rec	ղuired.)		
Γhe following it	tems are missing:	W AIDE	9	
Copies of this w	vere sent to the LSS and the Applicant on			
State Authorize	ed Agent:		Date:	
☐ Complete				
State Authorize	ed Agent:		Date:	



Permit/File #:	
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CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County:			Pre-Construction Confe	erence Required: Yes] No 🗌
AOWE/PE Plans/Ev	valuations Provided	: Yes 🗌 No 🗌	If yes, name and license number of	AOWE/PE:	
Facility Type:					
Number of bedroo	oms: Numb	per of Occupants: _	Other:		
☐ New	Expansion	Repair	System Relocation] Change of Use	
Basement?	Yes	☐ No	Basement Fixtures?	☐ No	
Crawl Space?	Yes	☐ No	Slab Foundation? Yes	☐ No	
Type of Wastewate	er System*		(Initial)		(Repair)
*Please include sys	stem classification f	or proposed waste	water system types in accordance v	vith Rule .1301 Table XXX	(II
Design Daily Flow:		GPD Was	stewater Strength: Domestic	☐ High Strength	☐ Industrial Process WW
	120 Section 53, Eng vide engineering doo		ilizing Low-flow Fixtures and Low-fl	ow Technologies?	es No
Effluent Standard:	DSE HS	E NSF/ANSI	0 TS-I TS-II RCW		
Type of Water Sup	pply: Private wel	I Public well	Shared well Municipal S	Supply Spring [Other:
Installation Requir	rements/Condition	<u>.s</u>			
Septic Tank Size: _	gallons	Total Trench/Be	d Length: feet Trench/E	Bed Spacing: feet o	on center
Trench/Bed Width	ı: inches	LTAR:	gpd/ft ² Usable Depth to	LC (Initial) ^x :	^x Limiting condition
Soil Cover: i	inches Slope Co	orrected Maximum	Trench/Bed Depth [‡] :inc	thes * Measured on the	downhill side of the trench
Pump Tank Size (if	applicable):	gallons	Requires more than 1 pump?	Yes No	
Pump Requiremen	nts: ft. TDH v	vs GPM	Grease Trap Size (if applicable):	gallons	
Distribution Metho	od: Serial 🗌	D-Box or Parallel	☐ Pressure Manifold(s) ☐ LF	PP Other:	18
Artificial Drainage	Required: Yes	No 🗌 If yes, ple	ase specify details:		Ŋ.
Legal Agreements	(If the answer is "Y	es" to any type of	legal agreements, please attach a co	opy of the agreement.)	
Multi-party Agreer	ment Required [.020	04(g)]:	No Declaration	of Restrictive Covenants	: Yes No
			equired [.0301(b)]: Yes No		
Management Entit	ty Required: 🔲 Ye	s 🗌 No Minimu	ım O&M Requirements:		
Permit condition	ns:				
The requirements	of 15A NCAC 18E a	re incorporated b	v reference into this permit and sha	all be met. Systems shal	ll be installed in accordance

with the attached site sketch. 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 certification Number 10012E 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: _ AOWE/PE Signature: _ Date: __

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

See attached site sketch



Permit/File #:

This Section for Local Health Department Use Only

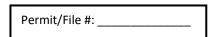
	Initial submittal received:	b	у
		Date	Initials
G.S. 130A-335(a5) states the follow	ving:		
Improvement Permit and Construction Authoperatment, and any necessary signed and sengineer or a person certified pursuant to Audiengineer or a person certified pursuant to Audiengartment shall, within five business days of the Construction Authorization or Improvement of the Construction Authorization and the Construction Authorization and the Local health department of the Information to the local health department of the Construction is complete within five busines department fails to act within any period second properties of the project for the building permit for the project of the Local health department ficensed engineer submitting the evaluation and Construction or Improvement Permit and Construction or	orization application together, the per sealed plans or evaluations conducted rticle 5 of Chapter 90A of the General sof receiving the application, conduct a nent Permit and Construction Authorization or Improvement Permit and Construction or Improvement Permit and Construction Authorization or Improvement Permit and Construction Authorization of the Construction Authorization of the Shall make a final determination as to so days after the local health department out in this subsection, the applicant reupon the decision of completeness of the or if the local health department fail pursuant to this subsection may requirement to the construction Authorization for cause. Ususpend or revoke the Construction Authorization for cause.	mit fee charged by the lot by a person licensed pur Statutes as an Authorized completeness review of ation includes all of the representation Authorization is in the Construction Authorized whether the Construction and the Construction Authorited to a construction Authorited to a construction Authorited the C	ation together, submits a Construction Authorization, or an ocal health department, the common form developed by the resuant to Chapter 89C of the General Statutes as a licensed of On-Site Wastewater Evaluator, the local health the submittal. A determination of completeness means that equired components. If the local health department incomplete, the local health department shall notify the and Construction Authorization. The applicant may submit ation or Improvement Permit and Construction and Information from the applicant. If the local health act as a determination of completeness. The applicant may zation or Improvement Permit and Construction ess days. The Authorized On-Site Wastewater Evaluator or department revoke or suspend the Construction he Authorized On-Site Wastewater Evaluator or licensed then Permit and Construction pursuant to G.S.
The review for completeness of thi	s Construction Authorization v	vas conducted in ac	cordance with G.S. 130A-335(a5). This
Construction Authorization is deter	mined to be:		
☐ Incomplete (If box is checked,	information in this section is re	equired.)	
The following items are missing:		1	
41 04			
Copies of this were sent to the AOV	WE/PE and the Applicant on	7	
		Date	
State Authorized Agent:			Date:
	C / Table 1		
Complete			
State Authorized Agent:	M. There		Date of Issuance:
attached here. This Construction A Construction Authorization shall n to compliance with the provisions The Department, the Department' any liabilities, duties, and responsiplans, evaluations, preconstruction the General Statutes as a licensed Authorized On-Site Wastewater Ev	tuthorization is subject to revo ot be affected by a change in of the Laws and Rules for Sew is authorized agents, and the libilities imposed by statute or n conference findings, submitted engineer or a person certified valuator in GS 130A-335(a2), (atments shall be responsible and a person certified and a person shall be responsible and a person certified a person certified and a person certified and a person certified and a person certified	ocation if the site plownership of the sivage Treatment and local health department in common law frostals, or actions from pursuant to Article a5), and (a7). The Dand bear liability for e operations permit	sing the signed and sealed plans or evaluations lan, plat, or the intended use changes. The te. This Construction Authorization is subject disposal and to the conditions of this permit. The ments 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 department, the Department's authorized their actions and evaluations and other a pursuant to GS 130A-337.



Permit/File #:

Re-submittal of Construction Authorization

	LHD USE ONLY: This CA resubmittal received:	Date	by	
The following it	tems are being resubmitted pursuant to G.S. 130A-3	335(a5) for issuance of	f the Construction Authoriz	l ation:
	JE 51	ATE	Dr.	
l,	hereby attest the	hat the information re	equired to be included with	this re-submittal
is accurate and	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	
	The section below is for Local Health Department u	ıse after submittal of ite	ems noted as missing above.	
LHD Follow-ւ	up Completeness Review of Construction	Authorization		
	completeness of this Construction Authorization re on Authorization is determined to be:	-submittal was condu	cted in accordance with G.S	5. 130A-335(a5).
☐ Incomplete ((If box is checked, information in this section is req	uired.)		
The following it	ems are missing:			
	OUA SEE QUA	M AIDER		
Copies of this w	vere sent to the AOWE/PE and the Applicant on	Date		
State Authorize	d Agent:		Date:	
☐ Complete				
State Authorize	d Agent:		Date:	





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

County:	
PIN/Lot Identifier:	
Issued To:	
Additional Improvement Permit Conditions:	
E STATE	
6 N N 1 30 1 - 5 N N	
Net - Y S/M Elizable 2 / Vene O M	
Additional Construction Authorization Conditions:	
10RH 12 1776	
White Tell I	
QUAM VI	

7



Permit #:	
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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-33	35(a5) for issuance of	f the Construction Authoriz	ation:
		AFF A		
l,	hereby attest tha	at the information re	quired to be included with	this re-submittal
is accurate and	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	
	The section below is for Local Health Department us		ems noted as missing above.	
LHD Follow-ւ	up Completeness Review of Construction A	uthorization		
	completeness of this Construction Authorization re-son Authorization is determined to be:	submittal was conduc	cted in accordance with G.S	5. 130A-335(a5).
☐ Incomplete ((If box is checked, information in this section is requi	ired.)		
The following it	ems are missing:			
	SJE OUA	M VIDER		
Copies of this w	vere sent to the AOWE/PE and the Applicant on	Date		
State Authorize	d Agent:		Date:	
☐ Complete				
State Authorize	d Agent:		Date:	

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

	Page <u>1</u> of
PROPERTY ID #:	
COUNTY:	

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNE				(Complete all				E EVALU	JATED:	
ADDR PROPO	ESS: DSED FACILITY FION OF SITE:	<u></u>	PR	OPOSED DESIGN	FLOW (.0400):		PROP	ERTY SIZI	E:	
WATE	R SUPPLY: 🗆 1	Public 🗌 Sin		☐ Shared Well ☐ ☐ Cut TY			WATE	R SUPPLY	SETBACK:_	
P R O F				RPHOLOGY			LE FACTO			
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 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
1					- - -					
2					-					
3					-					
4					-					
	ESCRIPTION	INITIAL SYS	STEM REPAIR ST	YSTEM						
	le Space (.0508) Type(s)			SITE CLA EVALUA	SSIFICATION (.0509):		500 SOI	E SCIENT	
Site LT				OTHER(S	PRESENT:		//			
	ım Trench Depth						((-
Comme	ents:						\	NOR NOR		
								The second second		

Revised January 2024 Form SSE-24.2

Hen Buter

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft ²)	LPP LTAR (gpd/ft ²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)		S (Sand)		0.6 - 0.8		MOIST	WET	SG (Single grain)
	1	LS				Lo	NS	М
CV (Convex Slope)	I	(Loamy sand)	0.8 - 1.2	0.5 -0.7	0.4 -0.6	(Loose)	(Non-sticky)	(Massive)
D (Drainage way)		SL (Sandy loam)		0.4 -0.6		VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)	п	L (Loam)	0.6 - 0.8	0.2 - 0.4	0.3 - 0.4	FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FP (Flood plain)	-"	` ,	0.6 - 0.8	0.2 - 0.4	0.3 - 0.4	, ,	VS	
FS (Foot slope)		SiL (Silt loam)		0.1 - 0.3		FI (Firm)	vs (Very sticky)	ABK (Angular blocky)
	1	SCL				VFI	NP	
H (Head slope)		(Sandy clay loam)		0.05 - 0.15**		(Very firm)	(Non-plastic)	PR (Prismatic)
						EFI	SP	
L (Linear Slope)		CL (Clay loam)				(Extremely firm)	(Slightly plastic)	PL (Platy)
		SiCL					Р	
N (Nose slope)		(Silty clay loam)					(Plastic)	
							VP	
R (Ridge/summit)	Ш	Si (Silt)	0.3 - 0.6		0.15 - 0.3		(Very plastic)	
S (Shoulder slope)		SC (Sandy clay)				SEXP (Slight	ly expansive)	
T (Terrace)		SiC (Silty clay)				EXP (Ex	pansive)	
TS (Toe Slope)	IV	C (Clay)	0.1 - 0.4	None	0.05 - 0.2			-
		O (Organic)	None					

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

HORIZON DEPTH In inches below natural soil surface
DEPTH OF FILL In inches from land surface

RESTRICTIVE HORIZON 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

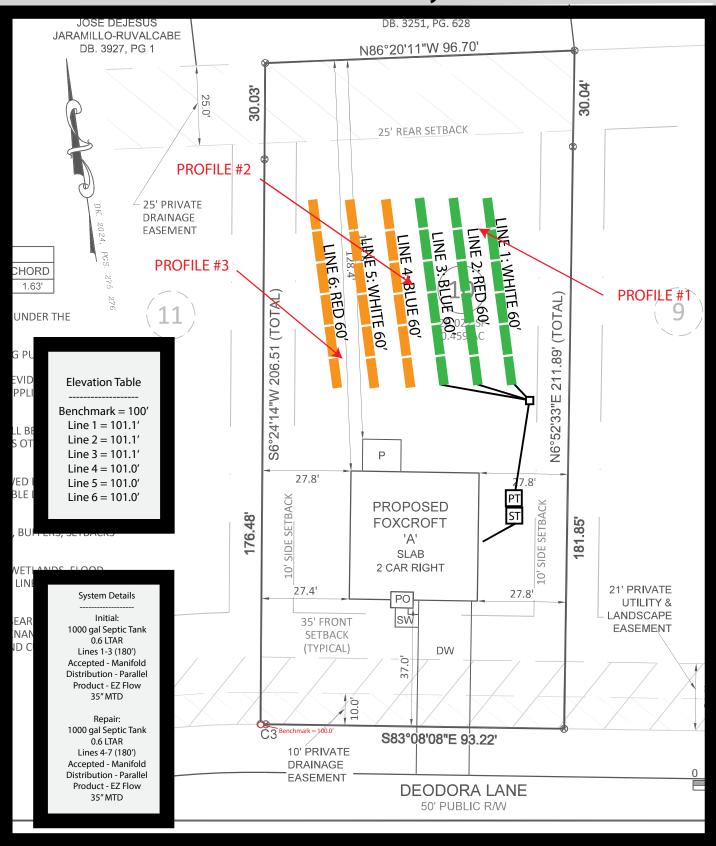
chip designation

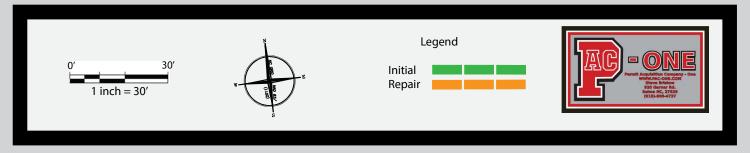
CLASSIFICATION S (Suitable) or U (Unsuitable)

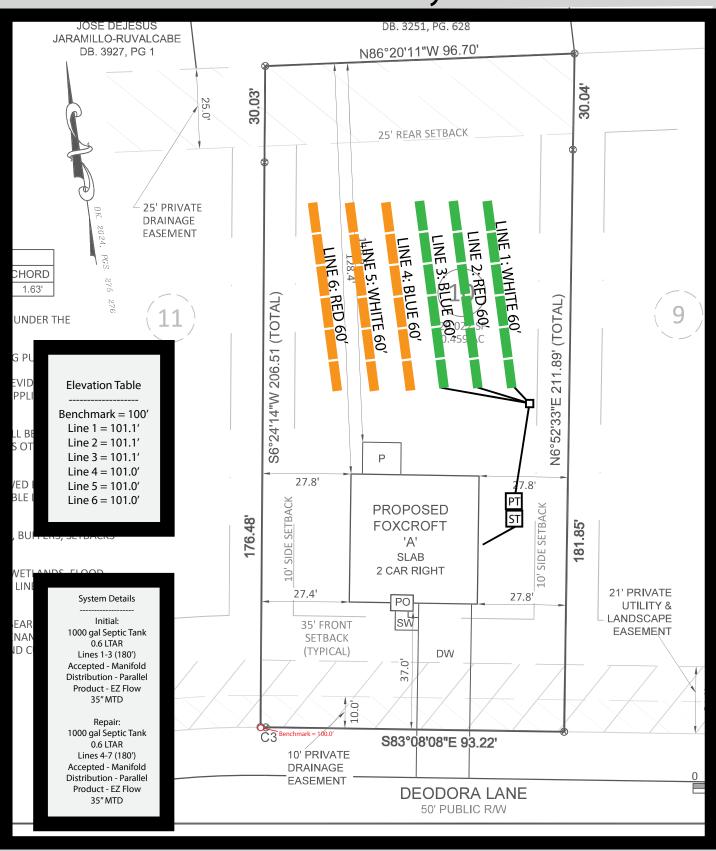
Show profile locations and other site features (dimensions, reference or benchmark, and North).

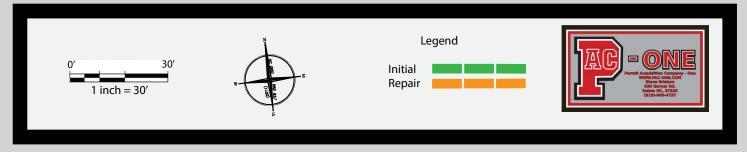


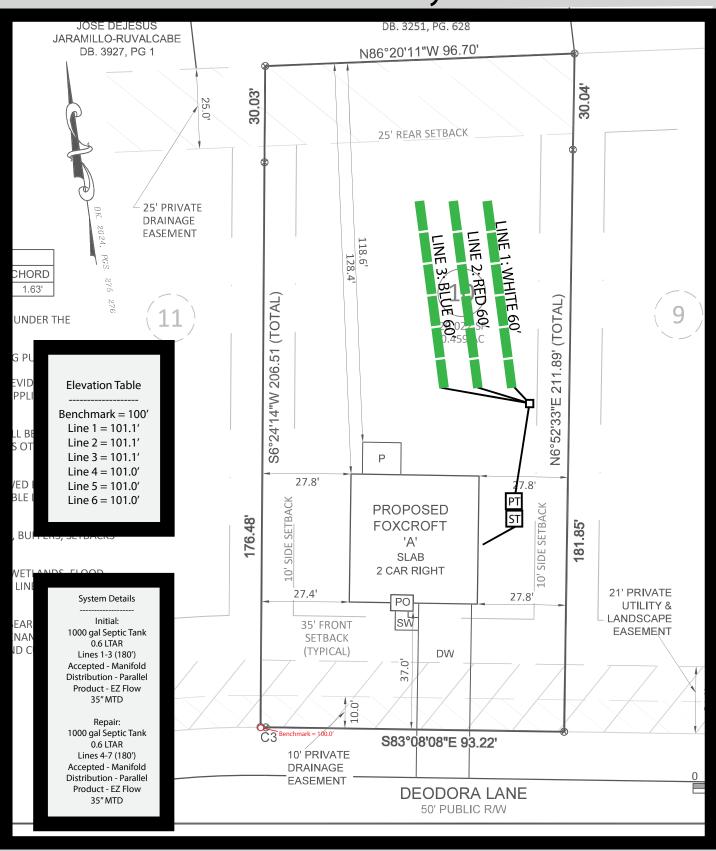
^{**}Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

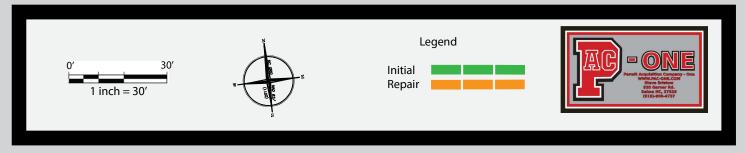


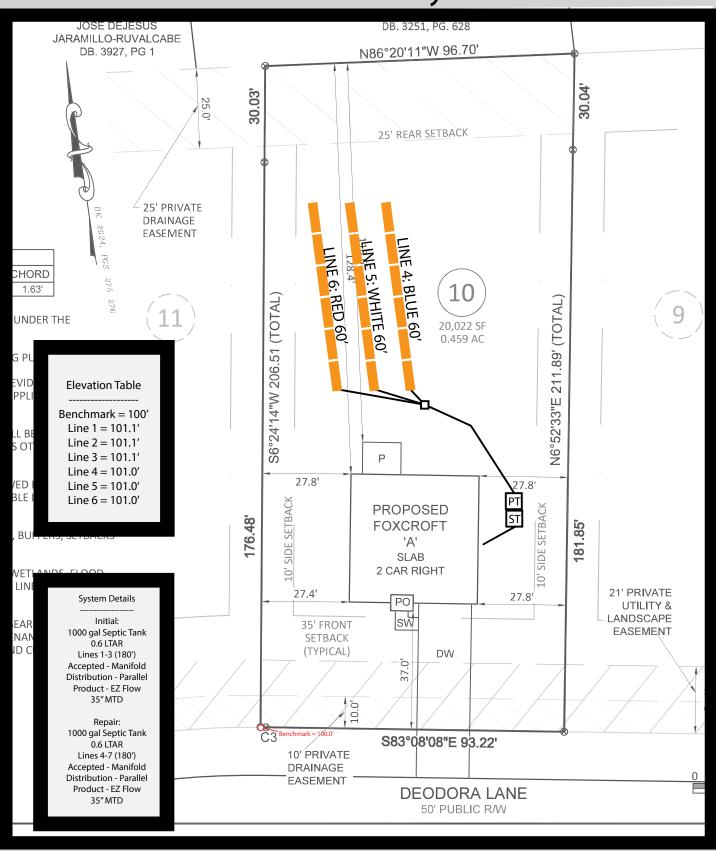


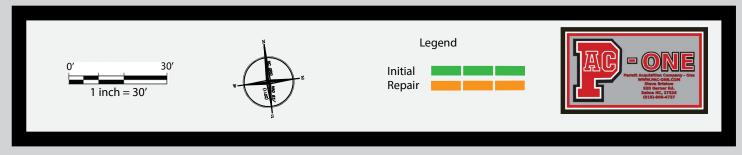












System Overview □ Initial □ Repair

Design Criteria	
Number of Bedrooms	
Design Flow	gal/day
Soil L.T.A.R.	gal/day/sq ft
System Details	
Trench Depth	inches
Total Trench Length	feet
Manifold Length	inches
Manifold Diameter	
Supply Line Length	feet
Design Head	feet
Elevation Head	feet
Total Design Head	feet
Dose Volume	gallons
% Pipe Volume	
Drawdown	inches
Pump Run Time	minutes
System Components	
Trench Product	
Septic Tank	
Pump Tank	
	ylok PL-68 (or approved equivalent)
	eller Dose Mate Model 151/152/153 (or approved equivalent)
Control Panel S.IF	Rhombus Model 112 panel (or approved equivalent)

RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Cedar Point Lot 10

of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.6000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 540 System Type: Accepted

Number of Taps: <u>3</u> Length of Trenches: <u>180</u> ft(See Tap Chart for Details)

Depth of Trenches: 35 in Manifold Length: 36 in

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

Supply Line: length: $\underline{40}$ ft Diameter: $\underline{2}$ in sch 40pvc

Friction Loss + Fitting Loss: $\underline{1.22}$ ft(supply line length + 70' for fittings in pump tank)

Design Head: $\underline{2}$ ft Elevation Head: $\underline{6}$ ft

Total Head: 9.22 ft Pump to Deliver: 21.33 gals/min at 9.22 ft head

Dosing Volume: <u>82</u> gals,

Drawdown: 82 gals divided by $\underline{20}$ gals/in = $\underline{4.1}$ 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	4.2	is = 100.00	set at Front Left	Elect Box			Design Head:	2			
Pump tank elev.		3	101.20	Pump elev.	96.20		Manifold elev.	102.10			
·				·						# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
1	White	3.10	101.10	60	1/2in SCH 40	7.11	120.00	180	0.6667		
2	Red	3.10	101.10	60	1/2in SCH 40	7.11	120.00	180	0.6667		
3	Blue	3.10	101.10	60	1/2in SCH 40	7.11	120.00	180	0.6667		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			Total Feet =	180	gal/min =	21.33		LTAR =	0.6000		
			Feet Required =	150	Velocity =	2.04		(Itar + 5%)	0.6300		
Total # of Panels (P	PBPS)			Des. Flow	360			(Itar w/25% red)	0.8000		
% of Dose Vol.		70		Pump Run=	16.88			(Itar + 5%)	0.8400		
Dose Volume		82		Tank Gal/IN	20						
Dose Pump Time		3.84		Elev. Head	6						
Drawdown in Inche	s	4.1									
Comments:											

System Overview □ Initial □ Repair

Design Criteria	
Number of Bedrooms	
Design Flow	gal/day
Soil L.T.A.R.	gal/day/sq ft
System Details	
Trench Depth	inches
Total Trench Length	feet
Manifold Length	inches
Manifold Diameter	
Supply Line Length	feet
Design Head	feet
Elevation Head	feet
Total Design Head	feet
Dose Volume	gallons
% Pipe Volume	
Drawdown	inches
Pump Run Time	minutes
System Components	
Trench Product	
Septic Tank	
Pump Tank	
	ylok PL-68 (or approved equivalent)
	eller Dose Mate Model 151/152/153 (or approved equivalent)
Control Panel S.IF	Rhombus Model 112 panel (or approved equivalent)

PRESSURE MANIFOLD DESIGN - REPAIR SYSTEM

of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.6000 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 540 System Type: Accepted

Number of Taps: <u>3</u> Length of Trenches: <u>180</u> ft(See Tap Chart for Details)

Depth of Trenches: 35 in Manifold Length: 36 in

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

Supply Line: length: 60 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 1.44 ft(supply line length + 70' for fittings in pump tank)

Design Head: $\underline{2}$ ft Elevation Head: $\underline{6}$ ft

Total Head: 9.44 ft Pump to Deliver: 21.33 gals/min at 9.44 ft head

Dosing Volume: 82 gals,

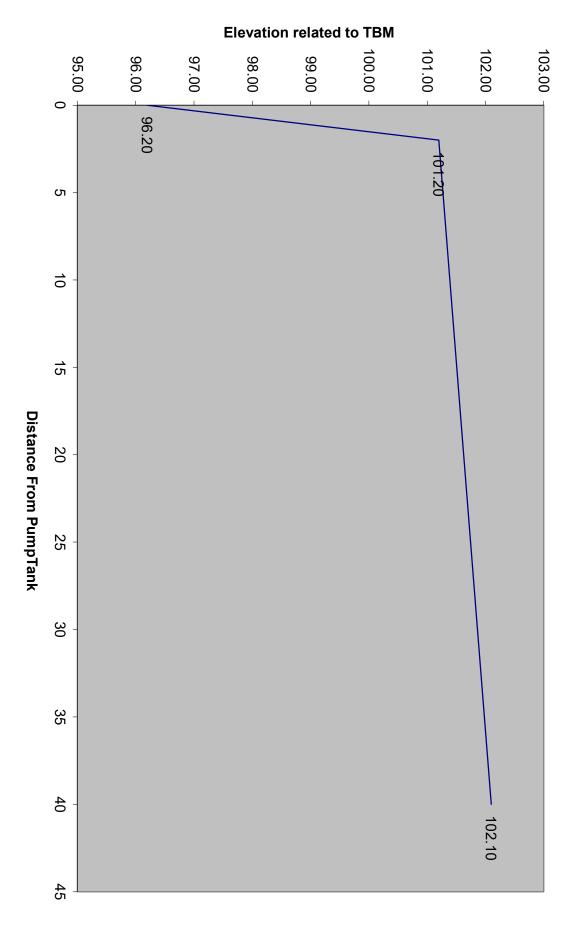
Drawdown: 82 gals divided by $\underline{20}$ gals/in = $\underline{4.1}$ inches

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.

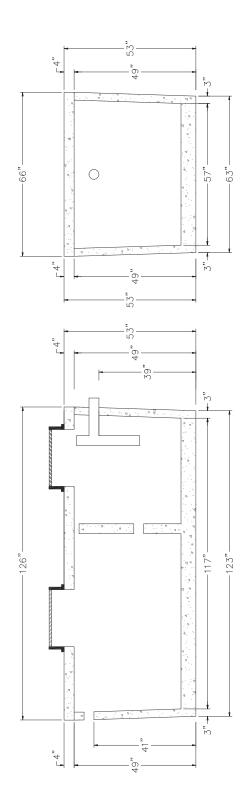
TAP CHART

Benchmark	4.2	is = 100.00	set at Front Left	Elect Box			Design Head:	2			Change in
Pump tank elev.		<u>3</u>	101.20	Pump elev.	96.20		Manifold elev.	102.00		# of Panels	-
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
4	Blue	3.20	101.00	60	1/2in SCH 40	7.11	120.00	180	0.6667		
5	White	3.20	101.00	60	1/2in SCH 40	7.11	120.00	180	0.6667		
6	Red	3.20	101.00	60	1/2in SCH 40	7.11	120.00	180	0.6667		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			104.20			0	0.00	0	#DIV/0!		
			Total Feet =	180	gal/min =	21.33		LTAR =	0.6000		
			Feet Required =	150	Velocity =	2.04		(ltar + 5%)	0.6300		
Total # of Panels	(PPBPS)			Des. Flow	<u>360</u>			(Itar w/25% red)	0.8000		
% of Dose Vol.		70		Pump Run=	16.88			(Itar + 5%)	0.8400		
Dose Volume		82		Tank Gal/IN	<u>20</u>						
Dose Pump Time	•	3.84		Elev. Head	6						
Drawdown in Incl	hes	4.1									
Comments:											





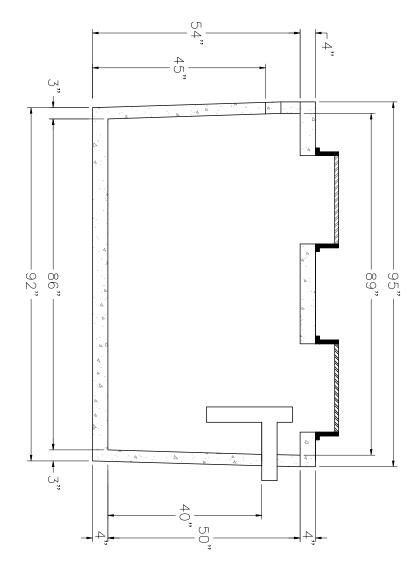
E8x 316-2\3-0443 CORLYCE Sound Straight St	Ιίοί		Maeter Set		mozilismg•relleregmail.com			
27 Pine Ridge Rid. 37 Pine Ridge Rid. 27 Pine Ridge Rid. 37 Pine Ridge Rid. 27 Pine Ridge Rid. 38 Pine Ridge Rid. 39 Pine Ridge Rid. 30 Pine Ridge Ridge Rid. 30 Pine Ridge	SHEET NUMBER		Revision 3					
664 TZ 000,11 hop. 101,11 hop.	66 + 10 000'l		Revision 2					
SNOS \$ 10.1 II. Not II. 11. Not Not III. Not			Revision 1					
PREPARED FOR: DANG MONIE DE SANTOTE DE SANTOTE BRANCHE FOR: DANG BRONDEY & Sons		Aros , tt lingA	Original Submittal	37 Pine Ridge Rd.				
	BRANTLEY TANK MODEL	DATE	REVISION NO.	PREPARED FOR: David Brantley & Sons	SNOS & AMILINVAA UINVU			

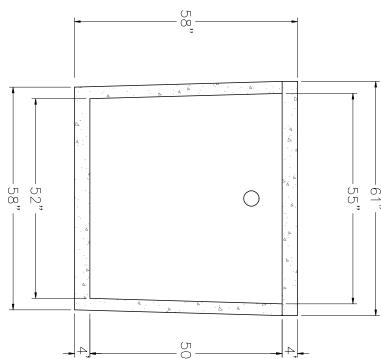


NON TRAFFIC BEARING

1,000 ST 499







DAVID BRANTLEY & SONS

1,000 PT 237

37 Pine Ridge Rd. Zebulon, NC 27597 Office 252-478-3721 Fax 919-573-0443

1instal	er•gmail.com
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PREPARED FOR :	David Brantley & Sons	REVISION NO.	DATE	Г
	37 Pine Ridge Rd.	Original Submittal	April 11, 2014	۔ ا
	Zebulon, NC 27597	Revision 1		ı
DATE : April 11, 2	014	Revision 2		ı
CONTACT:		INEVISION 2		r
CORY BRANTLEY		Revision 3		
		Master Set		

BRANTLEY TANK MODEL 1,000 PT 237

SHEET NUMBER

1 of 1

Productinformation presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



SECTION: 2.15.080 FM2784 1017 Supersedes 0315

TECHNICAL DATA SHEET

DOSE-MATE SERIES

Models 151, 152, 153 Effluent Pumps

PRODUCT SPECIFICATIONS

		SPECIFICATIONS					
	Horse Power	1/3 (151), 4/10 (152), 1/2 (153)					
	Voltage	115 or 230					
8	Phase	1 Ph					
2	Hertz	60 Hz					
MOTOR	RPM	3450					
Σ	Туре	Permanent split capacitor					
	Insulation	Class B					
	Amps	3.0 - 10.5					
	Operation	Automatic or nonautomatic					
	Discharge Size	1-1/2" NPT					
	Solids Handling	1/2" (12 mm), 3/4" (19 mm) spherical solids					
_	Cord Length	20' (6 m)					
PUMP	Cord Type	UL listed power cord					
Ď	Max. Head	44' (13.4 m)					
	Max. Flow Rate	77 GPM (291 LPM)					
	Max. Operating Temp.	130 °F (54 °C)					
	Cooling	Oil filled					
	Motor Protection	Auto reset thermal overload					
	Сар	Cast iron					
	Motor Housing	Cast iron					
	Pump Housing	Cast iron					
S	Base	Plastic or cast iron					
MATERIALS	Upper Bearing	Sleeve bearing					
<u>R</u>	Lower Bearing	Ball bearing					
쁜	Mechanical Seals	Carbon and ceramic					
_₹	Impeller Type	Non-clogging vortex					
2	Impeller	Engineered thermoplastic					
	Hardware	Stainless steel					
	Motor Shaft	AISI 1215 steel					
	Gasket	Neoprene					

NOTE: The sizing of effluent systems normally requires variable level float(s) controls and properly sized basins to achieve required pumping cycles or dosing timers with nonautomatic pumps.

NOTE: See model comparison chart for specific details.

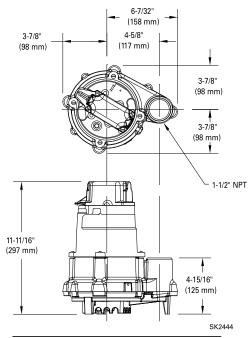
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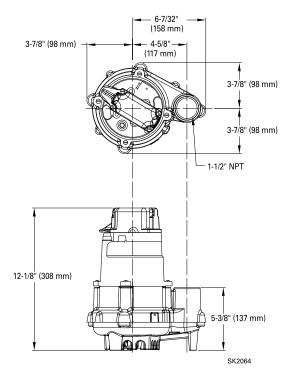




MODEL 151

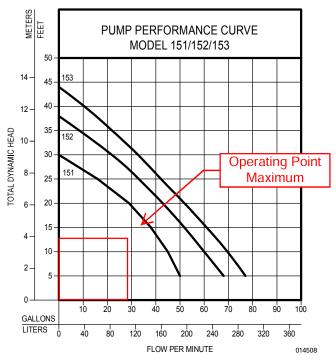


MODELS 152 & 153



TOTAL DYNAMIC HEAD FLOW PER MINUTE

МО	DEL	1	51	1:	52	153		
Feet	Meters	Gal.	Liters	Gal.	Liters	Gal.	Liters	
5	1.5	50	189	69	261	77	291	
10	3.0	45	170	61	231	70	265	
15	4.6	38	144	53	201	61	231	
20	6.1	29	29 110		167	52	197	
25	7.6	16	61	34	129	42	159	
30	9.1			23	87	33	125	
35	10.7	-				22	85	
40	12.2	-				11	42	
Shut-of	ff Head:	30 ft.	(9.1m)	38 ft. (11.6m)	44 ft. (13.4m)		
	·							



Madal		MODEL COMPARISON														
Model	Seal	Mode	Volts	Ph	Amps	HP	Hz	Lbs	Kg	Simplex	Duplex					
N151	Single	Non	115	1	6.0	1/3	60	32	15	1	2 or 3					
E151	Single	Non	230	1	3.0	1/3	60	32	15	1	2 or 3					
BN151	Single	Auto	115	1	6.0	1/3	60	33	15	*	2 or 3					
BE151	Single	Auto	230	1	3.0	1/3	60	33	15	*	2 or 3					
N152	Single	Non	115	1	8.5	4/10	60	37	17	1	2 or 3					
E152	Single	Non	230	1	4.3	4/10	60	37	17	1	2 or 3					
BN152	Single	Auto	115	1	8.5	4/10	60	39	18	*	2 or 3					
BE152	Single	Non	230	1	4.3	4/10	60	39	18	*	2 or 3					
N153	Single	Non	115	1	10.5	1/2	60	37	17							
BN153	Single	Auto	115	1	10.5	1/2	60	39	18	*	2 or 3					
E153	Single	Non	230	1	5.3	1/2	60	37	17	1	2 or 3					
BE153	Single	Non	230	1	5.3	1/2	60	39	18	*	2 or 3					

^{*}BN and BE models include a 20' (6 m) piggyback variable level pump switch. Additional cord lengths are available in 25' (8 m) and 35' (11 m). 50' (15 m) cords are available for 230 V units only.

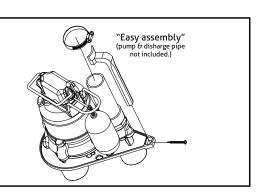
NOTE: Model 151 has a plastic base. Models 152 & 153 have a cast iron base.

SELECTION GUIDE

- For automatic, use single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
- 2. See FM1228 for correct model of simplex control panel.
- 3. See FM0712 for correct model of duplex control panel.

OPTIONAL PUMP STAND P/N 10-2421

- Reduces potential clogging by debris
- Replaces rocks or bricks under the pump
- Made of durable, noncorrosive ABS
- Raises pump 2" (5 cm) off bottom of basin
- Provides the ability to raise intake by adding sections of 1½" or 2" (DN40 or DN50) PVC piping
- Attaches securely to pump
- Accommodates sump, dewatering and effluent applications NOTE: Make sure float is free from obstruction.



▲ CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).



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.
- 3. 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.
- 3. 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 & LokTM



Extend & Lok™ Easily installs into existing tanks.

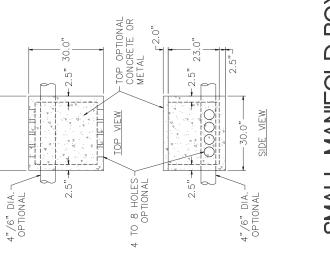


4" SCHD 40

to 110mm Pipe

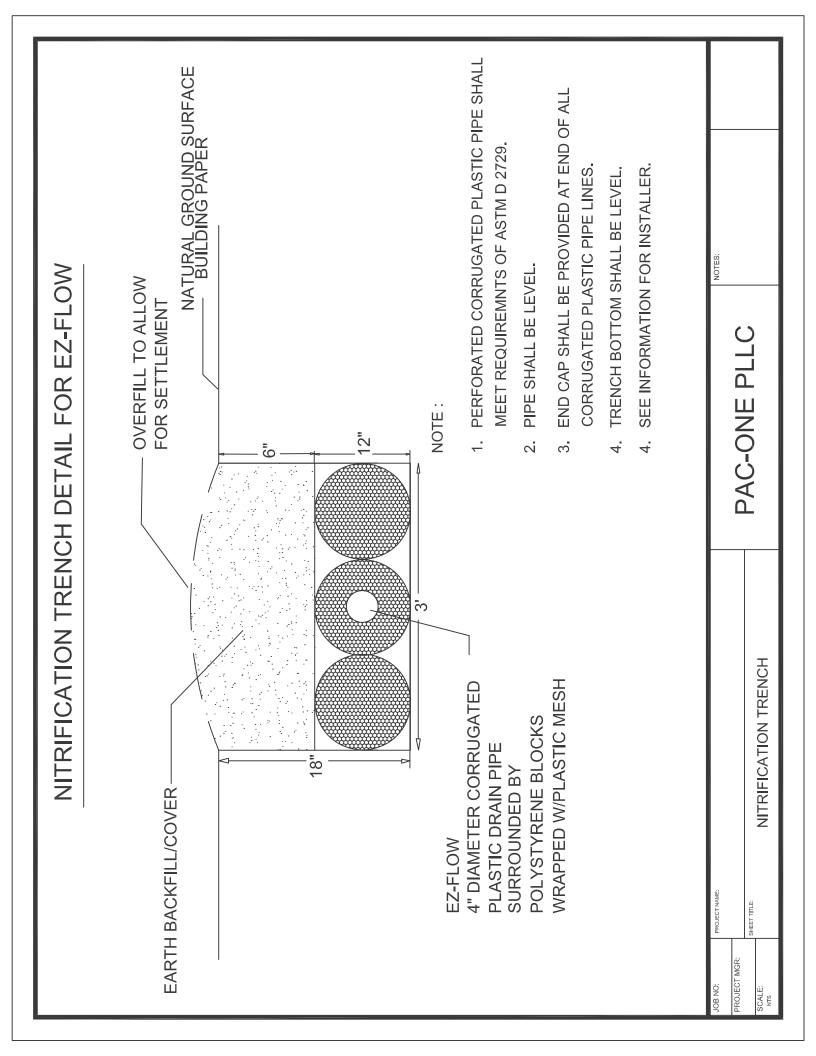
4" SCHD 40 to SDR 35

				HIGGENELIS, JOHNSON				
l io l		Master Set		finstalleregmail.com				
SHEET NUMBER		Revision 3	CORY BRANTLEY	Ep40-573-0443				
WANIFOLD BOX		Revision 2	CONTACT:	11-1 1-1 1-1 1-1				
		f noisiva A	DATE: April 11, 2014	37 Pine Ridge Rd. Zebulon, NC 27597				
SMALLEY YANK MODEL	April 11, 2014	Original Submittal	57 Pine Ridge Rd.	SNOS & YALINAHA AIVAA				
BEVAIL EX TANK MODEL	JIAG	REVISION NO.	PREPARED FOR: David Brantley & Sons	SNOS VALIDAVAL UNIVE				



-30.0"-

SMALL MANIFOLD BOX



MODEL 112 Control Panel

Single phase, simplex motor contactor control.

The Model 112 control panel provides a reliable means of controlling one 120, 208, or 240 VAC single phase pump in pump chambers, sump pump basins, irrigation systems and lift stations. Two control switches activate a magnetic motor contactor to turn the pump on and off. If an alarm condition occurs, an additional alarm switch activates the audio/visual alarm system.

PANEL COMPONENTS

- 1. Enclosure measures 8 x 8 x 4 inches (20.32 X 20.32 X 10.16 cm). Choice of NEMA 1 (steel for indoor use), or NEMA 4X (ultraviolet stabilized thermoplastic with removable mounting feet for outdoor or indoor use).
 - * Options selected may increase enclosure size and change component layout.
- 2. Magnetic Motor Contactor controls pump by switching electrical lines.
- 3. HOA Switch for manual pump control (mounted on circuit board).
- 4. Green Pump Run Indicator Light (mounted on circuit board).
- 5. Float Switch Terminal Block (mounted on circuit board).
- 6. Alarm and Control Fuses (mounted on circuit board).
- 7. Alarm and Control Power Indicators (mounted on circuit board).
- 8. Ground Lug
- Circuit Breaker (optional) provides pump disconnect and branch circuit protection.

STANDARD ALARM PACKAGE

- Red Alarm Beacon provides 360° visual check of alarm condition.
 Note: NEMA 1 style utilizes a door mounted indicator in lieu of a beacon.
- **11. Alarm Horn** provides audio warning of alarm condition (83 to 85 decibel rating).

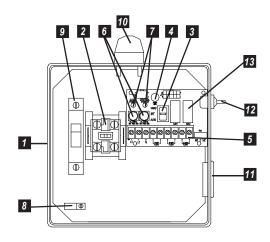
Note: NEMA 1 style utilizes an internally mounted buzzer in lieu of horn.

- 12. Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition has been cleared.
- 13. Horn Silence Relay (mounted on circuit board).

NOTE: other options available.

FEATURES

- Entire control system (panel and switches) is UL Listed to meet and/ or exceed industry safety standards
- Dual safety certification for the United States and Canada
- Standard package includes three 20' SJE SignalMaster® control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty



Model Shown 1121W914X





PO Box 1708, Detroit Lakes, MN 56502 1-888-DIAL-SJE • 1-218-847-1317 1-218-847-4617 Fax

email: sje@sjerhombus.com www.sjerhombus.com

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	1 = alarm p	_		ues iesi	/Hormai	/Sileii		, iuse	, realign	it, non							
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	W = Weathe				jineered	therr	noplastic)										
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\vdash	1 = 7-15 FL 2 = 15-20 F																
	$3 = 20-30 \mathrm{F}$																
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	4 - Circuit b	пеаке					RTINGD			1 abov	/e)						
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INFORMATION FOR THE CONTRACTOR

The permit should be read very carefully prior to bidding. The following are details that must be considered by the contractor prior to and during installation:

- Tanks shall be approved by NCDHHS and certification supplied by the manufacturer.
- The installer shall be responsible to the owner for placement of the tanks and to ensure that final grades are returned to the original grade, with exception of added structural features.
- The supply trench shall be compacted to eliminate cavities left during initial fill placement without damage or displacement of pipe or fittings.
- Installation of the system shall be during dry conditions in order to protect the soil structure.
- All fittings shall be pressure rated fittings.
- All joints shall be cleaned with PVC pipe cleaner and a heavy-bodied PVC pipe glue applied to weld all joints.
- Where required by the regulating County Health Department, post installation inspections by the Engineer or his representative must be scheduled **5 week days** in advance.
- Trenches shall be carefully excavated so the bottom is level for the entire length and width of the trench. If the trench bottom level needs adjusting after excavation it must be done by removing high points rather than filling low points. It is extremely important to insure that trenches are not over-excavated during initial trenching. All fine grading within the trench will be done by hand with a shovel. No loose material will be left in the trench.
- All pipe openings in the tanks shall be properly filled with press boot seal. This also applies to the joints around the riser.
- All tanks shall be properly back filled and compacted to prevent settlement.
- Earth dams, constructed of relatively impervious material, shall be installed at the beginning and end of each lateral.
- No heavy equipment shall be used on the field during or after installation. The use of a small loader (i.e. Bobcat) or a trencher (i.e. Ditch Witch 2300/2310) may be used for installation.
- Elevations at pin flag locations should be checked by the contractor prior to beginning trench excavation.
- Pump tank riser shall be 6" above grade, control panel shall be 18" above grade.
- -Septic tank shall have specified effluent filter or approved equivalent.

System Specifics:

- System uses EZ-Flow drain line.
- Repair uses EZ-Flow drain line.

Miscellaneous errors and omissions

Markel has over 35 years of experience providing miscellaneous errors and omissions insurance. Our leadership has a wealth of knowledge and expertise in protecting small business owners from litigation stemming from actual or perceived negligence. Our underwriting team has crafted policies that fit your specific needs, while our seasoned, in-house claims professionals will help you successfully navigate a loss or claim should you need their assistance.

Reporting new professional liability claims

New Claims can be reported in writing by website, email, fax, or regular mail. Please refer to your specific policy for all relevant reporting requirements.

To report a new claim, visit markelinsurance.com/file-a-claim and select "BOP/Miscellaneous errors and omissions/Workers compensation" from the drop down. You can also email newclaims@markelcorp.com and include the following:

- Policy number
- Insured and claimant names with contact details
- · Date of loss
- Location and description of loss
- All pertinent documentation available (incident report, police report, witness information, photos, etc.)

General claims questions

For information about an already reported Professional Liability claim, email: markelclaims@markelcorp.com, or contact your assigned claim examiner directly.

Additional contact information:

(800) 362-7535 or (800) 3 MARKEL (855) 662-7535 or (855) 6 MARKEL

Markel Claims Department, P.O. Box 2009,

Glen Allen, VA 23058-2009

While your policy is primarily designed to protect against a variety of professional errors and omissions claims, it may also provide protection for other specific exposures such as pollution claims, disciplinary proceedings, third party discrimination claims, subpoena and public relations expenses, among others. Contact your agent for more information, or if you have reported a Claim, your assigned examiner.

Risk management and loss prevention

Policyholders have access to loss control and risk management resources that can assist in a better understanding of potential hazards within their operation and ways to reduce claims.

Here's a sample of the many services available:

- Exposure assessments
- Loss analysis tools
- Safety videos
- Safety training materials
- Regulatory program guidance

Designed Protection® for professional service providers and associations – professional service providers hotline

Our panel of Risk Management experts is available to discuss general risk management related concerns and questions. Please visit **markelcorp.com/riskmanagement** and under "Designed Protection®" click "Click here," enter your policy number, then select "Professional Service Providers Hotline" to access our panel of experts.

Visit our website at:

markelinsurance.com/risk-management-home.

For more information about any of Markel's loss control services, contact us at (888) 500-3344 or email losscontrol@markelcorp.com.

For more information about our programs, risk management articles, and FAQs, please visit **markelinsurance.com**. To pay your bill or view policy documents, please visit **portal.markelinsurance.com**.





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/26/2024

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to

	ne terms and conditions of the policy, pertificate holder in lieu of such endors		•	icies may require an endo	rseme	nt. A stateme	ent on this ce	rtificate does not confer	rights	to the
	DUCER		-(-)		CONTAC NAME:	T Angela	Sensenig			
Wad	le Associates, LLC					, Ext): (252)	631-5269	FAX (A/C, No):	(252)649	-2443
250	Pollock St.				E-MAIL ADDRES	ss: asensen:	ig@wadeict	com		
								DING COVERAGE		NAIC #
Nev	Bern NC 28	560			INSURE	RA:Starsto	one Specia	lty Insurance Compa	any	44776
INSU	RED				INSURE	кв:Builder	s Mutual	Insurance Company		10844
	mit Acquistion Company One,	PLLC	2		INSURE	R C:				
920	Garner Rd				INSURE	RD:				
					INSURE	RE:				
Sel		576		NUMBER 24 25	INSURE	RF:		DEVICUON NUMBER		
	VERAGES CEI HIS IS TO CERTIFY THAT THE POLICIES O			NUMBER: 24-25	I I P P I I I	ED TO THE IN		REVISION NUMBER:	PERIOR	<u> </u>
IN C	IDICATED. NOTWITHSTANDING ANY REQ ERTIFICATE MAY BE ISSUED OR MAY PEF	UIREM TAIN,	IENT, THE II	TERM OR CONDITION OF AN NSURANCE AFFORDED BY T	IY CONT HE POL	RACT OR OTH	HER DOCUMEN BED HEREIN I	NT WITH RESPECT TO WHIC	CH THIS	
E)	XCLUSIONS AND CONDITIONS OF SUCH		ES. LI	MITS SHOWN MAY HAVE BE	EN RED	UCED BY PAIC POLICY EFF	CLAIMS. POLICY EXP			
LTR	TYPE OF INSURANCE	INSD	WVD	POLICY NUMBER		(MM/DD/YYYY)	(MM/DD/YYYY)	LIMITS		
	X COMMERCIAL GENERAL LIABILITY							EACH OCCURRENCE DAMAGE TO RENTED	\$	1,000,000
A	CLAIMS-MADE X OCCUR							PREMISES (Ea occurrence)	\$	100,000
				SSEP0476240AEM		11/22/2024	11/22/2025	MED EXP (Any one person)	\$	10,000
								PERSONAL & ADV INJURY	\$	1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: PRO- LOC							GENERAL AGGREGATE	\$	2,000,000
	POLICY JECT LOC							PRODUCTS - COMP/OP AGG	\$	2,000,000
	OTHER: AUTOMOBILE LIABILITY	+						COMBINED SINGLE LIMIT	\$	
	ANY AUTO					(Ea accident) BODILY INJURY (Per person)	\$			
	ALL OWNED SCHEDULED							BODILY INJURY (Per accident)	\$	
	AUTOS AUTOS NON-OWNED AUTOS AUTOS							PROPERTY DAMAGE (Per accident)	\$	
	HIRED AUTOS AUTOS							(Per accident)	\$	
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
	DED RETENTION \$								\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY							X PER OTH- STATUTE ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?	N/A				11/14/2024	11/14/2025	E.L. EACH ACCIDENT	\$	500,000
В	(Mandatory in NH)	٠٠٠٠٠		69KOUB-5N24039-7-24				E.L. DISEASE - EA EMPLOYEE	\$	500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	\$	500,000
A	Errors & Omissions			SSEP0476240AEM		11/22/2024	11/22/2025	Each Occurrence		\$1,000,000
								General Aggregate		\$2,000,000
DEG	DESTRUCTION OF OPERATIONS (LOCATIONS (MEMO		000.40	4.41122		.119				
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHICL	S (AC	10 טאט	1, Additional Remarks Schedule, m	ay be atta	cnea it more spac	ce is required)			
CF	RTIFICATE HOLDER				CANC	ELLATION				
<u> </u>										
								SCRIBED POLICIES BE CAN) BEFORE
	Smith Douglas Homes							F, NOTICE WILL BE DELIVER! * PROVISIONS.	ED IN	
	3412 Apex Peakway Apex, NC 27502				L					
	Apex, NC 2/302				AUTHOR	RIZED REPRESEN	ITATIVE			
								M D . 1	\bigcap	
l	1				N Whi	tsett/RAC	HEL	N. Reel h))—	-



MARKEL INSURANCE COMPANY

10275 West Higgins Road, Suite 750 Rosemont, IL 60018 (800) 431-1270

INSURANCE POLICY

Coverage afforded by this policy is provided by the Company (Insurer) and named in the Declarations.

In **Witness Whereof**, the company (insurer) has caused this policy to be executed and attested and countersigned by a duly authorized representative of the company (insurer) identified in the Declarations.

Kathleen Anne Sturgeon By North Southers.

Secretary President

MJIL 1000 06 10 Page 1 of 1



MARKEL INSURANCE COMPANY

NOTICE TO POLICYHOLDERS CLAIM REPORTING

Please immediately report a new claim under this policy to:

newclaims@markel.com

For general claims inquiries after a claim has been reported, please email:

markelclaims@markel.com

In order for us to expedite the handling of your claim and quickly refer it to the appropriate party, please have the following information available:

- Claim number (or report as new)
- Your name, contact information and position with the Named Insured
- Date of loss
- Policy number and insured name
- Details of loss

Our address and additional contact information are as follows:

Markel Claims P.O. Box 2009 Glen Allen, VA 23058-2009 Phone: 800-362-7535 (800) 3MARKEL

Fax: 855-662-7535 (855) 6MARKEL

Markel understands the importance of having knowledgeable claims professionals prepared to answer your questions with personal attention and expertise. With claims professionals located across four times zones, you are sure to find the claims assistance you need -- when you need it.

PLEASE REFER TO THE POLICY FOR ANY NOTICE AND REPORTING PROVISIONS AND DUTIES IN THE EVENT OF LOSS OR DAMAGE TO COVERED PROPERTY.

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MARKEL INSURANCE COMPANY

U.S. TREASURY DEPARTMENT'S OFFICE OF FOREIGN ASSETS CONTROL ("OFAC") ADVISORY NOTICE TO POLICYHOLDERS

No coverage is provided by this Policyholder Notice nor can it be construed to replace any provisions of your policy. You should read your policy and review your Declarations page for complete information on the coverages you are provided.

This Notice provides information concerning possible impact on your insurance coverage due to directives issued by OFAC. Please read this Notice carefully.

The Office of Foreign Assets Control (OFAC) administers and enforces sanctions policy, based on Presidential declarations of "national emergency". OFAC has identified and listed numerous:

- · Foreign agents;
- Front organizations;
- Terrorists;
- · Terrorist organizations; and
- Narcotics traffickers;

as "Specially Designated Nationals and Blocked Persons". This list can be located on the United States Treasury's web site – https://www.treasury.gov/ofac.

In accordance with OFAC regulations, if it is determined that you or any other insured, or any person or entity claiming the benefits of this insurance has violated U.S. sanctions law or is a Specially Designated National and Blocked Person, as identified by OFAC, this insurance will be considered a blocked or frozen contract and all provisions of this insurance are immediately subject to OFAC. When an insurance policy is considered to be such a blocked or frozen contract, no payments nor premium refunds may be made without authorization from OFAC. Other limitations on the premiums and payments also apply.

Markel Insurance Company



PROFESSIONAL LIABILITY INSURANCE DECLARATIONS

Claims Made and Reported Coverage: The coverage afforded by this policy is limited to liability for only those Claims that are first made against the Insured during the Policy Period or the Extended Reporting Period, if exercised, and reported to Markel Insurance Company during the Policy Period or the Extended Reporting Period, if exercised, or within 60 days after the expiration of the Policy Period or the Extended Reporting Period, if exercised.

Notice: This policy contains provisions that reduce the Limits of Liability stated in the policy by the costs of legal defense and permit legal defense costs to be applied against the deductible, unless the policy is amended by endorsement. Please read the policy carefully.

POLICY NUMBER: MEO1642-05 RENEWAL OF POLICY: MEO1642-04

NAMED INSURED: Permit Acquisition Company-One LLC

BUSINESS ADDRESS: 920 Garner Road Selma, NC 27576

POLICY PERIOD: From 11/22/2023 to 11/22/2024

12:01 A.M. Standard Time at address of Insured stated above.

IN RETURN FOR THE PAYMENT OF THE PREMIUM, AND SUBJECT TO ALL THE TERMS OF THIS POLICY, THE COMPANY AGREES WITH THE NAMED INSURED TO PROVIDE THE INSURANCE AS STATED IN THIS POLICY.

PROFESSIONAL SERVICES: soil science

2. LIMITS OF LIABILITY

Professional Liability Coverage

Α.	Each Claim:	\$2,000,000
В.	Policy Aggregate:	\$2,000,000

Additional Payments

A.	Contingent Bodily Injury And Property Damage	\$100,000
В.	Pollution	\$10,000
C.	Pre-Claim Assistance Expenses	\$20,000
D.	Sexual Abuse	\$10,000
E.	Third Party Discrimination	\$25,000

Supplementary Payments

A. Disciplinary Proceeding \$25.	000 pe	* Policy	/ Period
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В.	Loss Of Earnings And Expense Reimbursement	\$10,000
C.	Public Relations Expenses	\$5,000
D.	Subpoena And Record Request Assistance	\$5.000

Producer Number, Name and Mailing Address

98496

Wade Associates, LLC. - New Bern

PO Box 1209

Davidson, NC, 28036

MDST 1000 07 17 Page 1 of 2

3. DEDUCTIBLE

 A. Each Claim:
 \$1,000

 B. Aggregate:
 \$3,000

4. RETROACTIVE DATE: 11/22/2019

5. PREMIUM RATE: Flat PREMIUM BASE: Flat

6. PREMIUM FOR POLICY PERIOD

Minimum: \$560
Deposit: \$560
Adjusted Annual Premium: \$560

- 7. PREMIUM PERCENTAGE FOR EXTENDED REPORTING PERIOD: ADDITIONAL PERIOD:
- 8. FORMS AND ENDORSEMENTS ATTACHED AT POLICY INCEPTION:

See MDIL 1001 attached.

These declarations, together with the Coverage Form and any Endorsement(s), complete the above numbered policy.

Countersigned: 08/30/2023 (Date)	By: John K Clark
	Authorized Representative Signature

MDST 1000 07 17 Page 2 of 2