

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 hereaft	er described as:
at the behest of:	
Owner Print:	
Owner Signature:	Will Smith
Owner's Representative	(if any):
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	ed system type(s):
 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", applicar	nt must attach supporting documentation.
Yes No Does the site contain any jurisdictional	wetlands?
	d 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	ys on this property?
	C 4204 225(2) / 2) / 5)
are to be used to issue an Improvement Permit and/or Construc	S. 130A-335(a2), (a3), (a5), and (a6), attached to this application tion Authorization pursuant to G.S. 130A-335(a2) (a3), and (a5)
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	
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	☐ Fee \$
	IMPROVEM	MENT PERMIT FOR G.S. 130A-33	35(a2)
County:			
Subdivision (if applical	.ble)	Lot #:	Block: Section:
LSS Report Provided: `	Yes No No		
If yes, name and licens	se number of LSS:		
New 🗌	Expansion	System Relocation	Change of Use
Facility Type:			
Number of bedrooms:	: Number of Occupants:	Other:	
Design Wastewater St	trength: Domestic	High Strength Industr	rial Process Wastewater
Proposed Design Daily	y Flow: GPD	Proposed LTAR (Initial): P	Proposed LTAR (Repair):
Proposed Wastewater	r System Type*:	(Initial) Pump Re	equired: Yes No May be required
Proposed Wastewater	r System Type*:	(Repair) Pump Re	equired: Yes No May be required
*Please include systen	n classification for proposed wastev	water system types in accordance with Rule	e .1301 Table XXXII
Effluent Standard:	☐ DSE ☐ HSE ☐ NSF/ANSI 40) TS-I TS-II RCW	
Saprolite System (Initi	ial): 🗌 Yes 🔲 No Saprolite	.e System (Repair): 🗌 Yes 🔲 No	
Fill System (Initial):	Yes No If yes, specify: Ne	ew Existing (when adding more than	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 than	n 6 inches of fill to system area provide a fill plan
Usable Depth to LC (In	nitial) ^x :	Usable Depth to LC (Repair)x:	× Limiting Condition
Max. Trench Depth (In	nitial)‡: Max. Tr	ench Depth (Repair) [‡] :	‡ Measured on the downhill side of the trench
Artificial Drainage Rec	quired: Yes No If yes, pleas	se specify details:	
Type of Water Supply:	: Private well Public well	Shared well Municipal Supply	Spring Other:
Drainfield location me	ets requirements of Rule .0508: Ye	es No Drainfield location meets	s requirements of Rule .0601: Yes \(\text{ No } \text{ \(\text{No } \text{ \(\text{S} \)} \)
Permit valid for: Fi	ive years [site plan submitted pursu	ant to GS 130A-334(13a)] 🔲 No expirati	ion [plat submitted pursuant to GS 130A-334(7a
Permit conditions:			
i			

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

initiai submittai received:		Dy	
_	Date	Initials	
G.S. 130A-335(a3) states the following:			
When an applicant for an Improvement Permit submits to a local health deportment, the common form developed by the Department, and a soil eval within five business days of receiving the application, conduct a completenes. Permit includes all of the required components. If the local health departmen shall notify the applicant of the components needed to complete the Improve department to cure the deficiencies in the Improvement Permit. The local health complete within five business days after the local health department receivact within any period set out in this subsection, the applicant may treat the focommon form for use as the Improvement Permit.	luation pursuant to suits review of the submit determines that the ement Permit. The appalth department shall it set the additional informational informatical informa	osection (a2) of this section, the local health depart tal. A determination of completeness means that the Improvement Permit is incomplete, the local health licant may submit additional information to the local make a final determination as to whether the Impro mation from the applicant. If the local health depar	ment shall, ne Improvement department al health ovement Permit rtment fails to
The review for completeness of this Improvement Permit was Permit is determined to be:	s conducted in acc	cordance with G.S. 130A-335(a3). This Im	iprovement
☐ Incomplete (If box is checked, information in this section	is required.)		
The following items are missing:			
	<u> </u> 5	- 1/2/// -	
Copies of this were sent to the LSS and the Applicant on	Date		
State Authorized Agent:		Date:	
☐ Complete			
State Authorized Agent:	1-1/38	Date:	
This Improvement Permit is issued pursuant to G.S. 130A-33 attached here. The issuance of this permit in no way guarar for checking with appropriate governing bodies in meeting t plat, or the intended use changes. The Improvement Permit permit is subject to compliance with the provisions of 15A N The Department, the Department's authorized agents, and tany liabilities, duties, and responsibilities imposed by statut evaluations, submittals, or actions from a licensed soil scien	ntees the issuance their requirement t shall not be affe ICAC 18E and to t the local health d te or in common l	e of other permits. The permit holder is a second of the second of the sit of the second of the sit of the conditions of this permit. Example 1 is subject to revocation if the sit of the sit of the conditions of this permit. Example 1 is subject to revocation if the sit of	responsible the site plan, e. This ased from
Improvement Permit Expiration Date:			

See attached site sketch



Permit/File #:

Re-submittal of Improvement Permit

	LUD LISE ONLY. This ID reculpy ittal reco	si radi	hv	
	LHD USE ONLY: This IP resubmittal rece	Date	Dy Initials	-
Γhe following i	items are being resubmitted pursuant to G.S.	130A-335(a3) for issuance	e of the Improvement Permi	t:
	THE	SIAIF		
s accurate and	hereby a Scientist (Print Name) complete to the best of my knowledge and to laws, regulations, rules, and ordinances.		n required to be included wi	
Signatui	re of Licensed Soil Scientist		Date	
	The section below is for Local Health Depar	tment use after submittal o	f items noted as missing above	·
LHD Follow-ı	up Completeness Review of Improve	ment Permit		
	completeness of this Improvement Permit re Permit is determined to be:	e-submittal was conducte	d in accordance with G.S. 13	OA-335(a3). This
☐ Incomplete	e (If box is checked, information in this section	on is required.)		
Γhe following it	ems are missing:			
Copies of this w	vere sent to the LSS and the Applicant on	 Date		
State Authorize	ed Agent:		Date:	
☐ Complete				
State Authorize	ed Agent:		Date:	



Permit/File #:	
----------------	--

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

County:			Pre-Construction Conference Required: Yes No No
PIN/Lot Identifie	er:		
Issued To:			
Property Locatio	on:		
AOWE/PE Plans/	Evaluations Provided	: Yes 🗌 No 🗌	If yes, name and license number of AOWE/PE:
Facility Type:			
Number of bedro	ooms: Numb	er of Occupants: _	Other:
New	☐ Expansion	Repair	System Relocation Change of Use
Basement?	Yes	☐ No	Basement Fixtures?
Crawl Space?	Yes	☐ No	Slab Foundation? Yes No
Type of Wastew	ater System*		(Initial)(Repair
*Please include s	system classification f	or proposed waste	ewater system types in accordance with Rule .1301 Table XXXII
Design Daily Flo	w:	GPD Was	stewater Strength: Domestic High Strength Industrial Process WW
	4-120 Section 53, Eng ovide engineering doo		tilizing Low-flow Fixtures and Low-flow Technologies?
Effluent Standar	d: DSE HSI	E NSF/ANSI 4	40 TS-I TS-II RCW
Type of Water Si	upply: 🗌 Private well	Public well	☐ Shared well ☐ Municipal Supply ☐ Spring ☐ Other:
Installation Req	uirements/Conditions	<u>s</u>	
Septic Tank Size:	gallons	Total Trench/Be	ed Length: feet Trench/Bed Spacing: feet on center
Trench/Bed Wid	th: inches	LTAR:	gpd/ft ² Usable Depth to LC (Initial) ^x : ^x Limiting condition
Soil Cover:	_ inches Slope Co	rrected Maximum	n Trench/Bed Depth‡:inches * Measured on the downhill side of the trench
Pump Tank Size	(if applicable):	gallons	Requires more than 1 pump?
Pump Requirem	ents: ft. TDH v	/s GPM	Grease Trap Size (if applicable): gallons
Distribution Met	thod: Serial 🔲	D-Box or Parallel	Pressure Manifold(s) LPP Other:
Artificial Drainag	ge Required: Yes	No 🗌 If yes, ple	ease specify details:
Legal Agreemen	ts (If the answer is "Yo	es" to any type of	legal agreements, please attach a copy of the agreement.)
Multi-party Agre	ement Required [.020)4(g)]:	☐ No Declaration of Restrictive Covenants: ☐ Yes ☐ No
Easement, Right	-of-Way, or Encroachr	ment Agreement R	Required [.0301(b)]:
Management En	itity Required: 🔲 Yes	S No Minimu	um O&M Requirements:
Permit conditi	ions:		
The requiremen	ts of 15A NCAC 18E a	re incorporated b	y reference into this permit and shall be met. Systems shall 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 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:

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

See attached site sketch

Beyised January 2024 with the attached site sketch. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The



Permit/File #:

This Section for Local Health Department Use Only

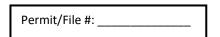
	Initial submittal received:	b	у
		Date	Initials
G.S. 130A-335(a5) states the follow	ving:		
Improvement Permit and Construction Author Department, and any necessary signed and sengineer or a person certified pursuant to Aid department shall, within five business days of the Construction Authorization or Improveme determines that the Construction Authorizat applicant of the components needed to come additional information to the local health de Authorization. The local health department is department fails to act within any period set apply for the building permit for the project Authorization by the local health department licensed engineer submitting the evaluation Authorization or Improvement Permit and Co	orization application together, the per sealed plans or evaluations conducted rticle 5 of Chapter 90A of the General of receiving the application, conduct a nent Permit and Construction Authorization or Improvement Permit and Construction or Improvement Permit and Construction Authorization of the Construction Authorization of the Construction Authorization of the Shall make a final determination as to say after the local health department out in this subsection, the applicant of the upon the decision of completeness of the or if the local health department fair pursuant to this subsection may requirement to the construction Authorization for cause. Ususpend or revoke the Construction Authorization for cause.	rmit fee charged by the lo I by a person licensed pure Statutes as an Authorized a completeness review of the ation includes all of the re- truction Authorization is in or Improvement Permit and the Construction Authorization and whether the Construction ent receives the additional may treat the failure to accoming the construction of the construction the Construction Authorization is to act within five busineses that the local health of Upon written request of the uthorization or Improvement	ation together, submits a Construction Authorization, or an an acal health department, the common form developed by the suant 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 required components. If the local health department and construction Authorization. The applicant may submit ation or Improvement Permit and Construction and Authorization or Improvement Permit and Construction all information from the applicant. If the local health as a determination of completeness. The applicant may reation or Improvement Permit and Construction as a determination of completeness. The applicant may reation or Improvement Permit and Construction rest days. The Authorized On-Site Wastewater Evaluator or relepartment revoke or suspend the Construction are Authorized On-Site Wastewater Evaluator or licensed rent Permit and Construction pursuant to G.S.
The review for completeness of this	s Construction Authorization v	vas conducted in acc	cordance with G.S. 130A-335(a5). This
Construction Authorization is deter	mined to be:		
☐ Incomplete (If box is checked, i	information in this section is re	equired.)	
The following items are missing:		1	
9104			
Copies of this were sent to the AOV	NE/PE and the Applicant on		
		Date	
State Authorized Agent:			Date:
- ///	- Carrier - Carr		/ 3 ///
Complete			
State Authorized Agent:	VA TAGE		Date of Issuance:
attached here. This Construction A Construction Authorization shall no to compliance with the provisions The Department, the Department' any liabilities, duties, and responsi plans, evaluations, preconstruction the General Statutes as a licensed Authorized On-Site Wastewater Ev	Authorization 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, submit engineer or a person certified valuator in GS 130A-335(a2), (tments shall be responsible and	ocation if the site plownership of the site vage Treatment and local health departning in common law frotals, or actions from Jarsuant to Article (a5), and (a7). The Dond bear liability for the operations permit	ing the signed and sealed plans or evaluations an, plat, or the intended use changes. The te. This Construction Authorization is subject Disposal and to the conditions of this permit. The shall be discharged and released from many claim arising out of or attributed to a a person licensed pursuant to Chapter 89C of 5 of Chapter 90A of the General Statutes as an epartment, the Department's authorized their actions and evaluations and other pursuant to GS 130A-337.



Permit/File #:

Re-submittal of Construction Authorization

	LHD USE ONLY: T	his CA resubmittal receive	ed:	by Initials	
The following is	Ltems are being resubm	nitted pursuant to G.S. 130	A-335(a5) for issuance	of the Construction Author	orization:
			TATE	<i>D</i>	
I,		hereby atte	st that the information	required to be included w	vith this re-submittal
is accurate and		(Print Name) of my knowledge and that ions, rules, and ordinances	the proposed Construc		
Signatur	e of Authorized On-Site Wo	stewater Evaluator	1	Date	
LHD Follow-u		is for Local Health Departme Review of Construction		items noted as missing abov	ve.
	completeness of this (on Authorization is de	Construction Authorization termined to be:	n re-submittal was cond	ucted in accordance with	G.S. 130A-335(a5).
☐ Incomplete ((If box is checked, info	ormation in this section is r	required.)		
The following it	ems are missing:				
		JO 35C OF	IAM VIDERS	[F	
Copies of this w	ere sent to the AOWE	PEPE 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	of the Construction Author	rization:
		A TO		
l,	hereby attest tha	at the information r	equired to be included wi	th 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 us	e after submittal of it	ems noted as missing above	······································
LHD Follow-ւ	up Completeness Review of Construction A	uthorization		
	completeness of this Construction Authorization re-s on Authorization is determined to be:	submittal was condu	ucted in accordance with (G.S. 130A-335(a5).
☐ Incomplete ((If box is checked, information in this section is requi	ired.)		
The following it	ems are missing:			
	TEST OUR	M VIDERLY		
Copies of this w	vere sent to the AOWE/PE and the Applicant on		-	
State Authorize	d Agent:	Date	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 ADDRI					fields in full)		DAT		JATED:	
PROPO	SED FACILITY	<u></u>	PR	OPOSED DESIGN I	FLOW (.0400):		PROP	ERTY SIZ	E:	
LOCA.	HON OF SITE: _			☐ Shared Well ☐			PROPE	KIY KEC	OKDED:	
P R O F I L	P R O F I L .0502		SOIL MOI	RPHOLOGY .0503	.0504			ORS .0507	.0509 PROFILE	.0502(d) SLOPE
#	LANDSCAPE POSITION/	HORIZON DEPTH	STRUCTURE/	CONSISTENCE/	WETNESS/	SOIL	.0506 SAPRO	RESTR	CLASS	CORRE
1	SLOPE %	(IN.)	TEXTURE	MINERALOGY	COLOR	DEPTH	CLASS	HORIZ	& LTAR*	CTION
2										
3										
4										
Availabl System ' Site LTA Maximu	ESCRIPTION le Space (.0508) Type(s) AR m Trench Depth nts:	INITIAL SYS	STEM REPAIR SY	SITE CLAS	SSIFICATION (. ED BY: PRESENT:		,	501 001 001 001 001 001 001 001		
								Henr J.	Enter	

Revised January 2024 Form SSE-24.2

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)
		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)	ıı ı	L (Loam)	0.6 - 0.8	0.2 - 0.4	0.3 - 0.4	FR (Friable)	S (Sticky)	SBK (Subangular blocky)
TT (Treed plain)		SiL	0.0 0.0	0.2 0.1	0.0 0.1	FI	VS	ABK
FS (Foot slope)		(Silt loam)		0.1 - 0.3		(Firm)	(Very sticky)	(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

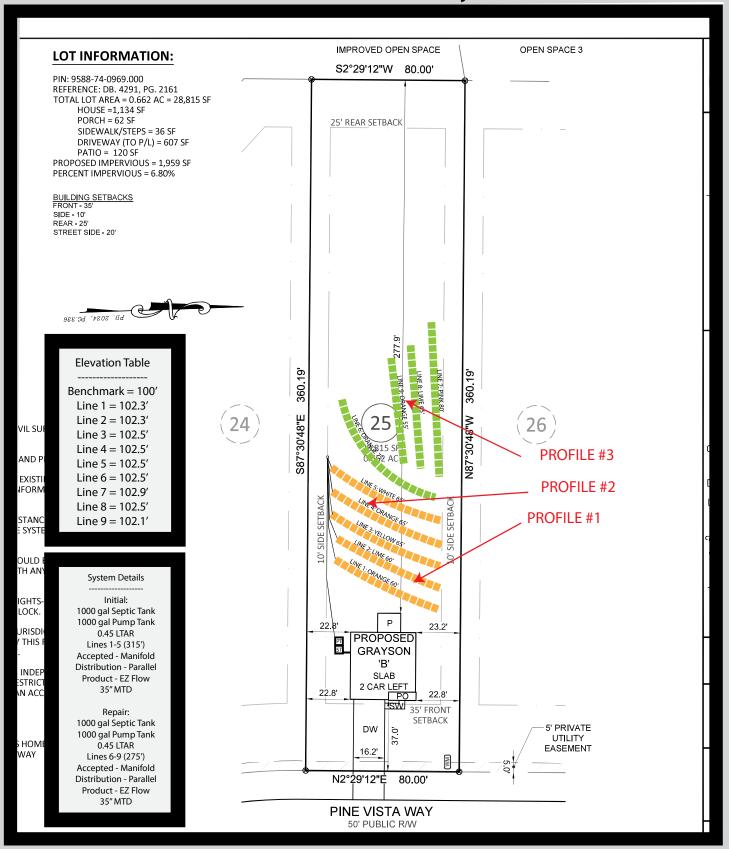
chip designation

CLASSIFICATION S (Suitable) or U (Unsuitable)

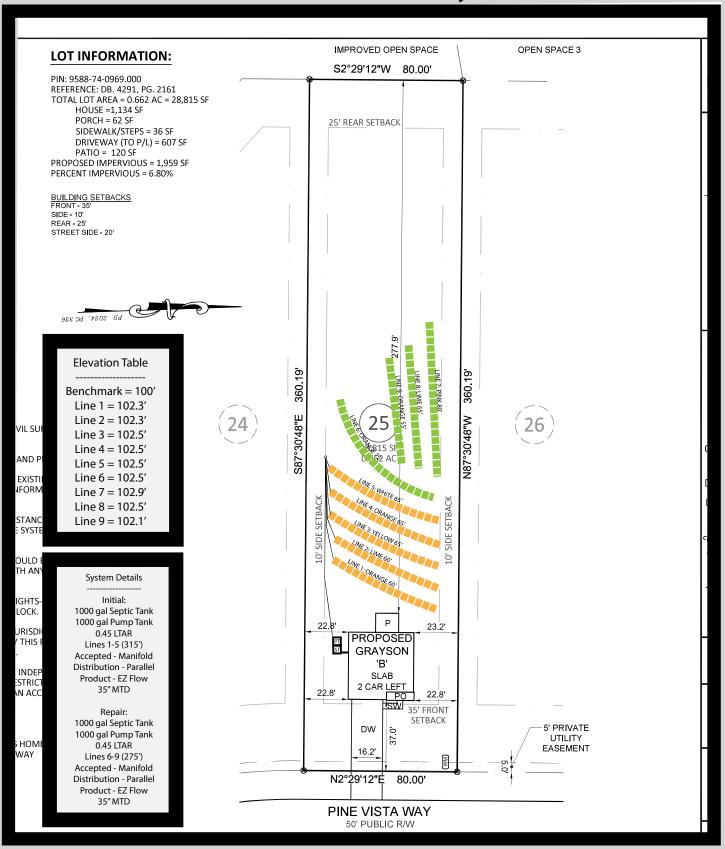
Show profile locations and other site features (dimensions, reference or benchmark, and North).



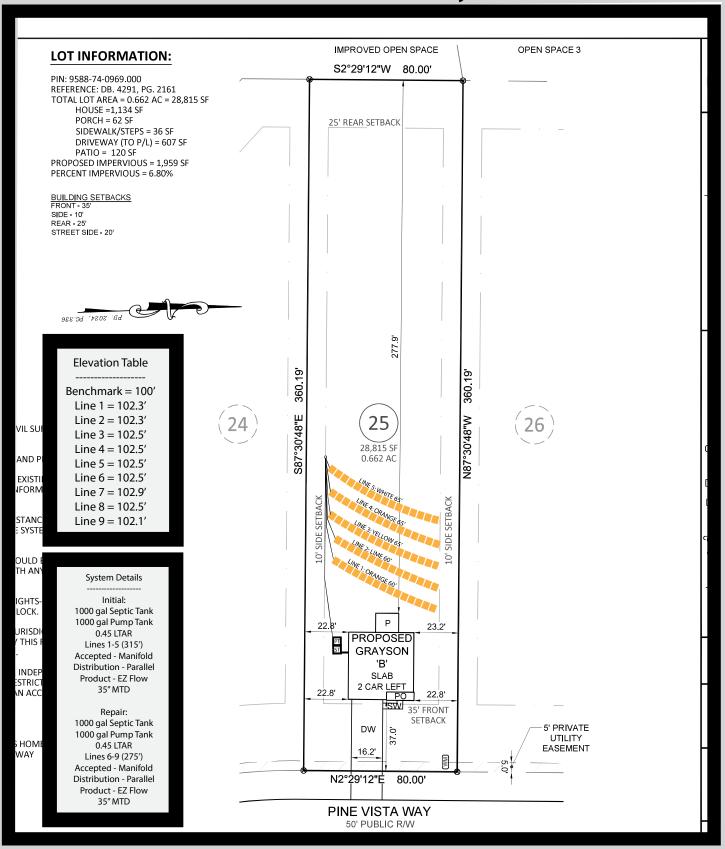
^{**}Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.



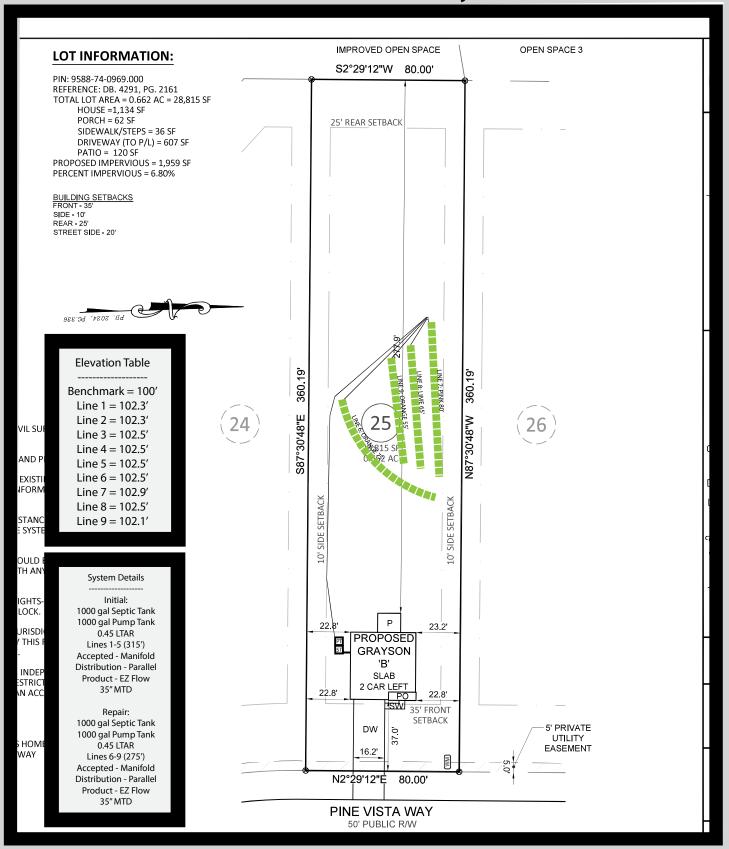














RESIDENTIAL PRESSURE MANIFOLD DESIGN

Permit # Briarwood 25

of BDR: 3 Daily Flow: 360 gal/day L.T.A.R.: 0.4500 gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 945 System Type: Accepted

Number of Taps: 5 Length of Trenches: 315 ft(See Tap Chart for Details)

Depth of Trenches: 35 in Manifold Length: 48 in

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

Supply Line: length: 80 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: $\underline{2.65}$ ft(supply line length + 70' for fittings in pump tank)

Design Head: $\underline{2}$ ft Elevation Head: $\underline{12.30}$ ft

Total Head: 16.95 ft Pump to Deliver: 27.40 gals/min at 16.95 ft head

Dosing Volume: <u>143</u> gals,

Drawdown: 143 gals divided by $\underline{20}$ gals/in = $\underline{7.2}$ 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	6	is = 100.00	set at back right	corner			Design Head:	2			
Pump tank elev.		10	96.00	Pump elev.	91.00		Manifold elev.	103.30			
			_							# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
1	Lime	3.70	102.30	60	1/2in SCH 80	5.48	72.00	180	0.4000		
2	Yellow	3.70	102.30	60	1/2in SCH 80	5.48	72.00	180	0.4000		
3	Orange	3.50	102.50	65	1/2in SCH 80	5.48	72.00	195	0.3692		
4	White	3.50	102.50	65	1/2in SCH 80	5.48	72.00	195	0.3692		
5	Lime	3.50	102.50	65	1/2in SCH 80	5.48	72.00	195	0.3692		
			106.00			0	0.00	0	#DIV/0!		
			106.00			0	0.00	0	#DIV/0!		
			106.00			0	0.00	0	#DIV/0!		
			106.00			0	0.00	0	#DIV/0!		
			106.00			0	0.00	0	#DIV/0!		
			Total Feet =	315	gal/min =	27.40		LTAR =	0.4500		
			Feet Required =	200	Velocity =	2.62		(Itar + 5%)	0.4725		
Total # of Panels (F	PPBPS)			Des. Flow	360			(Itar w/25% red)	0.6000		
% of Dose Vol.		70		Pump Run=	13.14			(Itar + 5%)	0.6300		
Dose Volume		143		Tank Gal/IN	20						
Dose Pump Time		5.23		Elev. Head	12.30						
Drawdown in Inche	es	7.2									
Comments:	Comments: NOTE: Deep Sandy Surface- use EZ FLOW Product only										

Decian Head

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: $\underline{3}$ Daily Flow: $\underline{360}$ gal/day L.T.A.R.: $\underline{0.4500}$ gal/day/sq.ft

Septic Tank: 1000 gals Pump Tank: 1000 gals Sq. Foot: 870 System Type: Accepted

Number of Taps: 4 Length of Trenches: 290 ft(See Tap Chart for Details)

Depth of Trenches: 35 in Manifold Length: 42 in

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

Supply Line: length: 120 ft Diameter: 2 in sch 40pvc

Friction Loss + Fitting Loss: 2.22 ft(supply line length + 70' for fittings in pump tank)

Design Head: $\underline{2}$ ft Elevation Head: $\underline{12.50}$ ft

Total Head: 16.72 ft Pump to Deliver: 21.92 gals/min at 16.72 ft head

Dosing Volume: <u>132</u> gals,

Drawdown: 132 gals divided by $\underline{20}$ gals/in = $\underline{6.6}$ 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	<u>6</u>	is = 100.00	set at back right	corner			Design Head:	2			Change in
Pump tank elev.		<u>10</u>	96.00	Pump elev.	91.00		Manifold elev.	103.50		# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
6	Orange	3.50	102.50	85	1/2in SCH 80	5.48	90.00	255	0.3529		
7	Lime	3.00	103.00	80	1/2in SCH 80	5.48	90.00	240	0.3750		
8	Orange	3.50	102.50	60	1/2in SCH 80	5.48	90.00	180	0.5000		
9	Lime	3.90	102.10	65	1/2in SCH 80	5.48	90.00	195	0.4615		
			106.00			0	0.00	0	#DIV/0!		
			106.00			0	0.00	0	#DIV/0!		
			106.00			0	0.00	0	#DIV/0!		
			106.00			0	0.00	0	#DIV/0!		
			106.00			0	0.00	0	#DIV/0!		
			106.00			0	0.00	0	#DIV/0!		
			Total Feet =	290	gal/min =	21.92		LTAR =	0.4500		
			Feet Required =	200	Velocity =	2.10		(Itar + 5%)	0.4725		
Total # of Panels	(PPBPS)			Des. Flow	<u>360</u>			(Itar w/25% red)	0.6000		
% of Dose Vol.		70		Pump Run=	16.42			(Itar + 5%)	0.6300		
Dose Volume		132		Tank Gal/IN	<u>20</u>						
Dose Pump Time	•	6.02		Elev. Head	12.50						
Drawdown in Inc	hes	6.6									
Comments:											

System Overview □ Initial □ Repair

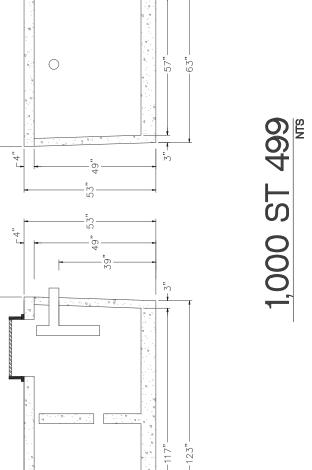
Design Criteria	
Number of Bedrooms	
Design Flow	gal/day
Soil L.T.A.R.	gal/day/sq ft
System Details	
Trench Depth	inches
Total Trench Length	feet
Manifold Length	inches
Manifold Diameter	
Supply Line Length	feet
Design Head	feet
Elevation Head	feet
Total Design Head	feet
Dose Volume	gallons
% Pipe Volume	
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)

Elevation related to TBM 102.00 104.00 100.00 94.00 96.00 98.00 96.00

l lo l		Master Set		moo.linstaller•gmail.com
SHEET NUMBER		Revision 3	сову вкаллеу	£47 919-573-0443
		Revision 2	CONTACT:	Office 252-478-3721
66- 10 0001		Revision 1	Zebulon, NC 27597 DATE: April 11, 2014	37 Pine Ridge Rd. Zebulon, NC 27597
664 TS 000,1	April 11, 2014	Original Submittal	37 Pine Ridge Rd.	DVAID BEVALTEX & 20NS
BRANTLEY TANK MODEL	JTAQ	REVISION NO.	PREPARED FOR: David Brantley & Sons	BROD W KEILDRIVEE UNIVE

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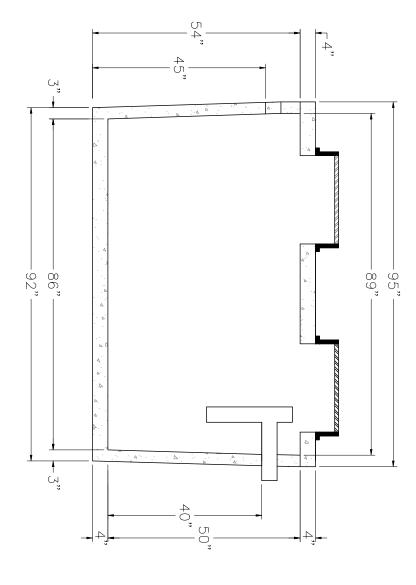
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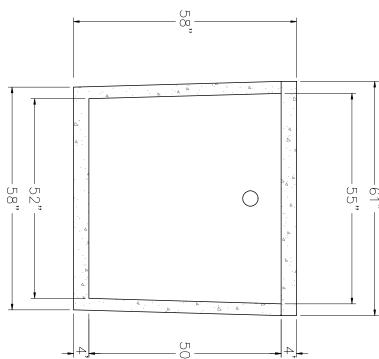


2,

NON TRAFFIC BEARING







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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		Master Set			
CORY BRANTLE	ΣΥ	Revision 3			
CONTACT:		Revision 2		H	
DATE: April 11, 2	014			ł	
	Zebulon, NC 27597	Revision 1		1	
	37 Pine Ridge Rd.	Original Submittal	April 11, 2014	l	
PREPARED FOR :	David Brantley & Sons	REVISION NO.	DATE		

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

	Horse Power	1/3 (151), 4/10 (152), 1/2 (153)
	Voltage	115 or 230
~	Phase	1 Ph
2	Hertz	60 Hz
моток	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	CordType	UL listed power cord
Ž	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
	Cap	Cast iron
	Motor Housing	Cast iron
	Pump Housing	Cast iron
S	Base	Plastic or cast iron
MATERIALS	Upper Bearing	Sleeve bearing
M	Lower Bearing	Ball bearing
핃	Mechanical Seals	Carbon and ceramic
'≰	ImpellerType	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.

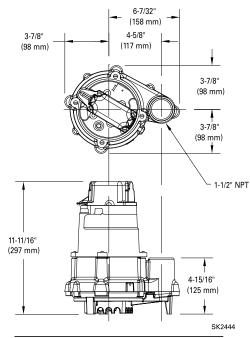
© US Tested to UL Standard UL778 and Certified to CSA Standard CSA22.2 No. 108



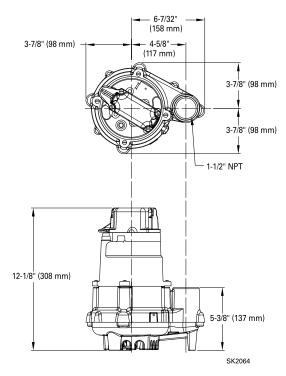




MODEL 151

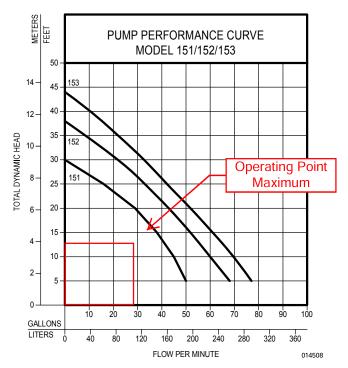


MODELS 152 & 153



TOTAL DYNAMIC HEAD FLOW PER MINUTE

МО	DEL		151	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	110	44	167	52	197		
25	7.6	16	61	34	129	42	159		
30	9.1		23 87 33	23 87		23 87 33		33 125	
35	10.7	-	-			22	85		
40	12.2	-	-			11	42		
Shut-o	ff Head:	30 ft	. (9.1m)	38 ft. (38 ft. (11.6m) 44 ft. (13.4m)				



Model	MODEL COMPARISON													
wodei	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.

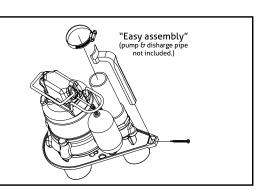
NOTE: Model 151 has a plastic base. Models 152 & 153 have a cast iron base.

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.

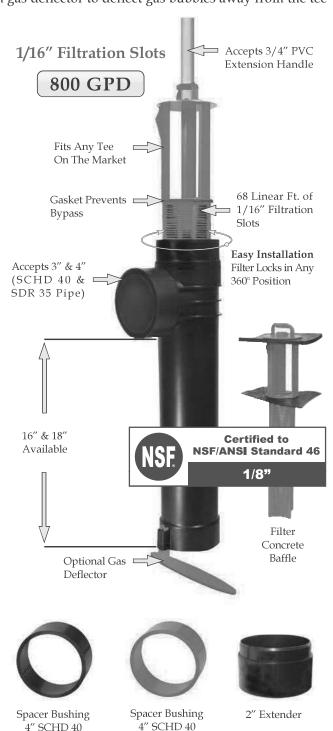
- 1. Do not use plumbing when filter is removed.
- 2. Pull PL-68 out of the tee.
- 3. Hose off filter over the septic tank. Make sure all solids fall back into septic tank.
- 4. Insert filter back into tee/housing.

Related Products:

PL-68 Filter Concrete Baffle Extend & LokTM



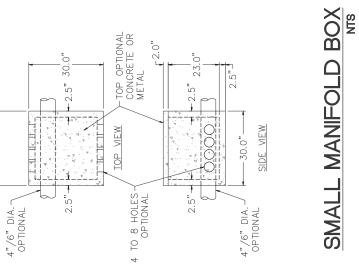
Extend & Lok™ Easily installs into existing tanks.



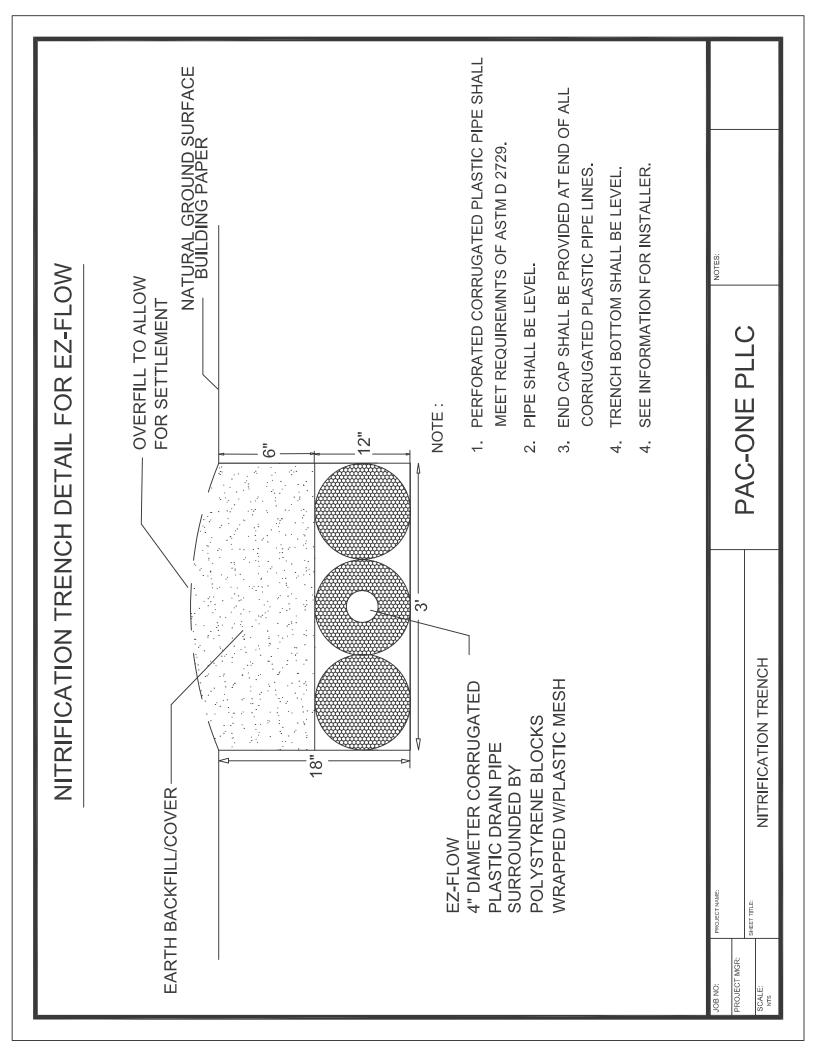
to 110mm Pipe

to SDR 35

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l îo l		Master Set		linstalleregmail.com
SHEET NUMBER		Revision 3		E8X 819-573-0443
VOCI CITO IINIVINI		Revision 2	CONTACT:	Office 252-478-3721
MANIFOLD BOX		Revision 1	DATE: April 11, 2014	37 Pine Ridge Rd. Zebulon, NC 27597
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BRANTLEY TANK MODEL	JTAG	REVISION NO.	PREPARED FOR: David Brantley & Sons	SROD O ALI ILLA VALLA UNIVA



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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).

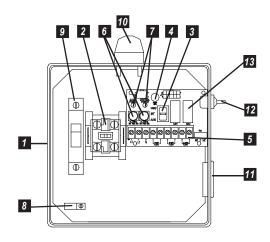
Note: NEMA 1 style utilizes an internally mounted buzzer in lieu of horn.

- 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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	PUMP FULI	LLOA	AD AM	PS													
	0 = 0.7 FL																
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	2 = 15-20 F 3 = 20-30 F																
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	(must se		E if floa	ats include	d)							nect (rotary sty	/le, mou	nted thro	ugh door, i	non-fused)
	3A Alarm fla								** **	_	FLA 0 FLA						
\square_{\star}	3B Manual a	alarm	reset					х				arm circuit brea	ker				
$\square \star$	4A Redunda								16	A 10'	cord in I	ieu of 20' (per	float)				
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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, co pertificate holder in lieu of such endorse		•	cies may require an endo	rsemer	nt. A stateme	nt on this ce	rtificate does not confer r	ights t	io the
	DUCER		ι(-)		CONTAC NAME:	T Angela S	Sensenig			
Wad	le Associates, LLC					Ext): (252)	631-5269	FAX (A/C, No): (252)649	-2443
250	Pollock St.				E-MAIL ADDRESS: asensenig@wadeict.com					
					INSURER(S) AFFORDING COVERAGE					NAIC #
New	Bern NC 285	60			INSURE	RA:Starsto	ne Specia	lty Insurance Compa	ıny	44776
INSU	RED				INSURE	Rв:Builder	s Mutual	Insurance Company		10844
	mit Acquistion Company One, F	PLLC	!		INSURE	RC:				<u> </u>
920	Garner Rd				INSURE	RD:				<u> </u>
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EX INSR	XCLUSIONS AND CONDITIONS OF SUCH PO		ES. LII SUBR	MITS SHOWN MAY HAVE BEI	EN RED	UCED BY PAID POLICY EFF	CLAIMS. POLICY EXP			
LTR	TYPE OF INSURANCE	INSD	WVD	POLICY NUMBER		(MM/DD/YYYY)	(MM/DD/YYYY)	LIMITS		
	X COMMERCIAL GENERAL LIABILITY							DAMAGE TO RENTED	\$	1,000,000
A	CLAIMS-MADE X OCCUR			GGTT0.4E.C0.403.TM		11 /00 /0004	11 /00 /0005	PREMISES (Ea occurrence)	\$	100,000
				SSEP0476240AEM		11/22/2024	11/22/2025	` , ' ' ,	\$	1,000,000
	OFAIL AGGREGATE LIMIT APPLIES PER								\$	2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO- LOC								\$	2,000,000
	THE SECTION OF SECTION AND ADDRESS OF SECTION ADDRESS OF SEC								\$	
	OTHER: AUTOMOBILE LIABILITY							COMBINED SINGLE LIMIT	\$	
	ANY AUTO							(Ea accident) BODILY INJURY (Per person)	\$	
	ALL OWNED SCHEDULED AUTOS AUTOS							BODILY INJURY (Per accident)	\$	
	HIRED AUTOS AUTOS							PROPERTY DAMAGE (Per accident)	\$	
									\$	
	UMBRELLA LIAB OCCUR							EACH OCCURRENCE	\$	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	\$	
	DED RETENTION \$								\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y/N						•	X PER OTH- STATUTE ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE	N/A						E.L. EACH ACCIDENT	\$	500,000
В	(Mandatory in NH) If yes, describe under			69KOUB-5N24039-7-24		11/14/2024	11/14/2025	E.L. DISEASE - EA EMPLOYEE	\$	500,000
	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
DESC	CRIPTION OF OPERATIONS / LOCATIONS / VEHICLES	(ACC	ORD 10°	1, Additional Remarks Schedule. m	ay be atta	ched if more space	e is required)			
		•		,,	.,		,			
L										
CEI	RTIFICATE HOLDER				CANC	ELLATION				
	Smith Douglas Homes 3412 Apex Peakway Apex, NC 27502				SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.					
	-				AUTHOR	RIZED REPRESEN	TATIVE			
					N Whi	tsett/RACI	HEL	N. Reel W)	_



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 Mahres

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.

MPIL 1074 07 14 Page 1 of 1



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
B.	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 \$2	5,000 բ	oer P	olicy	Perior	d
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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