

## 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 hereafter described as:

at the behest of:

Owner Print:	
Owner Signature:	
Owner's Representative (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).



Stephen WBuster



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	prization (a2) Repair/Construction Authorization
If applying for a Construction Authorization, please indicate desir Accepted Conventional Innovative Othe	red system type(s):
<ul> <li>New Construction</li> <li>Expansion</li> <li>System Reloce</li> <li>5-Year Expiration Requested (site plan provided)</li> <li>Non-Expression</li> <li>Requesting DHHS review? (systems &gt;3000 GPD or IPWW)</li> <li>Yes</li> </ul>	piring Permit Requested (plat provided, defined in G.S.130A-334(7a)
Applicant: Mailing Address:	Owner: Mailing Address:
City:	City:
If the answer to any of the following questions is "yes", applica         Yes       No       Does the site contain any jurisdictional         Yes       No       Is any wastewater going to be generated         Yes       No       Is the site subject to approval by any o         Yes       No       Are there any easements or right of waster	I wetlands? ed on the site other than domestic sewage? other public agency?
are to be used to issue an Improvement Permit and/or Constru I understand that authorized county and state officials are gran	
Applicant Signature:	Date: Date:
Owner Sugnature.	Date

Permit/	'Fil	e	#:
---------	------	---	----

NC DEPARTMENT OF	ROY COOPER • Governor		
HEALTH AND	HEALTH AND		
HUMAN SERVICE	5	sistant Secretary for Public Health	
The CLAM YORK &	Division of Public Health		
Submittal Includes: 🛛 🗌 (a2) Improvement Perm		Fee \$	
		F(-3)	
IVIPROV	EMENT PERMIT FOR G.S. 130A-33	5(d2)	
County:			
PIN/Lot Identifier:			
Issued To:			
Property Location:			
Subdivision (if applicable)	Lot #:	Block: Section:	
LSS Report Provided: Yes 📃 No 🗌			
If yes, name and license number of LSS:			
New Expansion	System Relocation	Change of Use	
Facility Type:			
Number of bedrooms: Number of Occupants	s: Other:		
Design Wastewater Strength: 🗌 Domestic	High Strength Industr	ial Process Wastewater	
Proposed Design Daily Flow: GPD	Proposed LTAR (Initial): P	roposed LTAR (Repair):	
Proposed Wastewater System Type*:	(Initial) Pump Red	quired: 🗌 Yes 🗌 No 📄 May be required	
Proposed Wastewater System Type*:	(Repair) Pump Rec	quired: 🗌 Yes 🗌 No 🗌 May be required	
*Please include system classification for proposed wa	stewater system types in accordance with Rule	2.1301 Table XXXII	
Effluent Standard: 🗌 DSE 🗌 HSE 🗌 NSF/ANS	51 40 🔲 TS-I 🗌 TS-II 🔲 RCW		
Saprolite System (Initial): 🗌 Yes 🗌 No Sapr	olite System (Repair): 🗌 Yes 🔲 No		
Fill System (Initial): 🗌 Yes 📄 No 🛛 If yes, specify: 🦳	New 🗌 Existing (when adding more than 6	5 inches of fill to system area provide a fill plan)	
Fill System (Repair): 🗌 Yes 🗌 No 🛛 If yes, specify: 🗌	] New 🔲 Existing (when adding more than	6 inches of fill to system area provide a fill plan)	
Usable Depth to LC (Initial) <sup>x</sup> :	Usable Depth to LC (Repair) <sup>x</sup> :	× Limiting Condition	
Max. Trench Depth (Initial) <sup>‡</sup> : Max	. Trench Depth (Repair) <sup>‡</sup> : #	<sup>‡</sup> Measured on the downhill side of the trench	
Artificial Drainage Required: 🗌 Yes 🗌 No 🛛 If yes, p			
Type of Water Supply: 🗌 Private well 🛛 🗌 Public we			
Drainfield location meets requirements of Rule .0508	Yes No Drainfield location meets	requirements of Rule .0601: Yes 🗌 No 🗌	
Permit valid for: 🗌 Five years [site plan submitted pu	ırsuant to GS 130A-334(13a)] 🔲 No expiratio	on [plat submitted pursuant to GS 130A-334(7a)]	
Permit conditions:			
Licensed Soil Scientist Print Name:		Laft	
Licensed Soil Scientist Finit Valle.		S AW SOLO	
,	mitted pursuant to and meets the requireme	11 「私留」第33公 ) (	
	*See attached site sketch*	Non 200 100 100 100 100 100 100 100 100 100	
NCDHHS/DPH/FHS/OSWP		Revised January 2024	

Permit/File #: \_\_



### 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 department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Incomplete (If box is checked, information in this section is required.)					
The following items are missing:					
Copies of this were sent to the LSS and the Applicant on	Date				
State Authorized Agent:		Date:	_		
Complete					
State Authorized Agent:		Date:			

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. <u>This permit is subject to revocation if the site plan, plat, or the intended use changes</u>. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of 15A NCAC 18E and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: \_\_\_\_\_

\*See attached site sketch\*



Permit/File #: \_\_\_\_\_

#### **Re-submittal of Improvement Permit**

LHD USE ONLY: This IP resubmittal received:		by	
	Date	Initials	

The following items are being resubmitted pursuant to G.S. 130A-335(a3) for issuance of the Improvement Permit:

I, \_\_\_\_\_\_\_hereby attest that the information required to be included with this re-submittal Licensed Soil Scientist (Print Name) is accurate and complete to the best of my knowledge and that the proposed Improvement Permit meets all applicable federal, State, and local laws, regulations, rules, and ordinances.

Signature of Licensed Soil Scientist

The section below is for Local Health Department use after submittal of items noted as missing above.

Date

#### LHD Follow-up Completeness Review of Improvement Permit

The review for completeness of this Improvement Permit re-submittal was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Date

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Applicant on

State Authorized Agent: \_\_\_\_\_

Complete

State Authorized Agent: \_\_\_\_\_

Date: \_\_\_\_\_

Date:



Permit/File #: \_\_\_\_

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

County:			Pre-Construction Conference Required: Yes 🗌 No 🗌
PIN/Lot Identifier:			
Issued To:			
Property Location	:		
AOWE/PE Plans/E	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? Yes No
Crawl Space?	Yes	🗌 No	Slab Foundation? Yes No
Type of Wastewat	er System*		(Initial)(Repair)
*Please include sy	stem classification f	or proposed waste	water system types in accordance with Rule .1301 Table XXXII
Design Daily Flow:	:	GPD Was	stewater Strength: Domestic High Strength Industrial Process WW
	-120 Section 53, Eng vide engineering doc		ilizing Low-flow Fixtures and Low-flow Technologies? 🗌 Yes 🗌 No
Effluent Standard:	DSE HSI	E 🗌 NSF/ANSI 4	0 TS-I TS-II RCW
Type of Water Sup	oply: 🗌 Private well	I 🗌 Public well	Shared well Municipal Supply Spring Other:
Installation Requi	rements/Conditions	<u>s</u>	
Septic Tank Size: _	gallons	Total Trench/Bec	d Length: feet Trench/Bed Spacing: feet on center
Trench/Bed Width	n: inches	LTAR:	gpd/ft <sup>2</sup> Usable Depth to LC (Initial) <sup>x</sup> : <sup>x</sup> Limiting condition
Soil Cover:	inches Slope Co	prrected Maximum	Trench/Bed Depth <sup>‡</sup> : inches <i>* Measured on the downhill side of the trench</i>
Pump Tank Size (if	f applicable):	gallons	Requires more than 1 pump? 🗌 Yes 📄 No
Pump Requiremer	nts: ft. TDH v	vs GPM	Grease Trap Size (if applicable): gallons
Distribution Meth	od: 🗌 Serial 🗌	D-Box or Parallel	Pressure Manifold(s)  LPP  Other:
Artificial Drainage	Required: Yes 🗌	No 🗌 If yes, plea	ase specify details:
Legal Agreements	s (If the answer is "Ye	es" to any type of le	legal agreements, please attach a copy of the agreement.)
Multi-party Agree	ment Required [.020	04(g)]: 🗌 Yes 🗌	No Declaration of Restrictive Covenants: Yes No
			equired [.0301(b)]: 🗌 Yes 🔲 No
Management Enti	ty Required: 🗌 Yes	s 🗌 No Minimu	Im O&M Requirements:
Permit condition	ns:		
	(		
-			y reference into this permit and shall be met. Systems shall be installed in accordance rization is subject to revocation if the site plan, plat, or the intended use changes. The
		-	hange in ownership of the site. This Construction Authorization is subject to compliance 
AOWE/PE Print Na	ame:		
AOWE/PE Signatu	re:Alexa Dec	ter	Date: Date:
			uant to and meets the requirements of G.S. 130A-335(a2) and (a5).
		:	Date: Date: Date: Date: Certification Number 10012E



### This Section for Local Health Department Use Only

Initial submittal received: \_\_\_\_\_\_ by \_\_\_\_\_

Date

Initials

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

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

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

Construction Authorization is determined to be:

Incomplete (If box is checked	, information in this section is required.)
-------------------------------	---

The following items are missing:

Copies of this were sent to the AOWE/PE and the	Date	
State Authorized Agent:	D	ate:

Complete

State Authorized Agent: \_

Date of Issuance:

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. 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 the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: \_\_\_\_\_

\*See attached site sketch\*



## **Re-submittal of Construction Authorization**

	LHD USE ONLY: This CA resubmittal received:		by	
		Date	Nitials	-
The following i	items are being resubmitted pursuant to G.S. 130A-33:	5(a5) for issuance	of the Construction Author	ization:
	ST /	ATTr	S-	
I,		t the information	required to be included wit	h this re-submittal
is accurate and	Donsite Wastewater Evaluator (Print Name) I complete to the best of my knowledge and that the p and local laws, regulations, rules, and ordinances.	proposed Construc	ction Authorization meets a	ill applicable
Signatur	re of Authorized On-Site Wastewater Evaluator		Date	
	The section below is for Local Health Department use	after submittal of i	items noted as missing above	
LHD Follow-u	up Completeness Review of Construction Au	uthorization		
	completeness of this Construction Authorization re-su on Authorization is determined to be:	ubmittal was cond	lucted in accordance with G	6.S. 130A-335(a5).
Incomplete	(If box is checked, information in this section is requir	red.)		
The following it	tems are missing:			
	QUAN	N VIDEN	19	
Copies of this w	vere sent to the AOWE/PE and the Applicant on	Date	_	
State Authorize	ed Agent:		Date:	
Complete				



Permit/File #: \_\_\_\_\_

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

County:	
PIN/Lot Identifier:	
Issued To:	
Additional Improvement Permit Conditions:	
THE STATE	
A NAR S	
845/ 3	710
	I I I
Additional Construction Authorization Conditions:	
1PRIL 12 VT16	
	R1+ 12
QUAM VID	



Permit #:

## **Re-submittal of Construction Authorization**

	LHD USE ONLY: This CA resubmittal received:		by	
		Date	Initials	
The following i	items are being resubmitted pursuant to G.S. 130A-335	i(a5) for issuance	of the Construction Authoriz	zation:
١,	hereby attest that	the information	required to be included with	this re-submittal
	onsite Wastewater Evaluator (Print Name)			
	l complete to the best of my knowledge and that the p and local laws, regulations, rules, and ordinances.	roposed Constru	ction Authorization meets al	l applicable
Tederal, State, a	and local laws, regulations, rules, and ordinances.			
Sianatu	re of Authorized On-Site Wastewater Evaluator		Date	
- <u>-</u>				
	The section below is for Local Health Department use	after submittal of	items noted as missing above	
	The section below is for Local Health Department use	ajter submitter oj	nems noted as missing above.	
LHD Follow-	up Completeness Review of Construction Au	thorization		
The review for	completeness of this Construction Authorization re-su		ducted in accordance with C	S 1204 22E/2E)
	on Authorization is determined to be:	Difficial was conc	ducted in accordance with G.	3. 130A-333(d3).
Incomplete	(If box is checked, information in this section is require	ed.)		
The following it	tems are missing:			
	¥ recreated to			
	JE OLIAN	A VIDEN	19	
Conjoc of this w	were cont to the AOWE/DE and the Applicant on		9	
Copies of this w	vere sent to the AOWE/PE and the Applicant on	Date		
State Authorize	ed Agent:		Date:	
Complete				
	ed Agent:		Date:	

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

PROPERTY ID #:	

Page <u>1</u> of \_\_\_\_\_

COUNTY:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM (Complete all fields in full)

OWNE	DOG			(Complete an I					ATED:		
ADDR PROPC LOCA	ESS: OSED FACILITY TION OF SITE: _	·	PR	PROPOSED DESIGN FLOW (.0400):				PROPERTY SIZE: PROPERTY RECORDED:			
				□ Shared Well □					SETBACK:_		
EVAL	UATION METH	OD: 🗌 Auge	er Boring 🗌 Pit	Cut TY	PE OF WASTE	EWATER:	Domesti	ic 🗌 High	Strength 🗌 I	PWW	
P R O F I			SOIL MO	RPHOLOGY	OTHEI	R PROFII	LE FACTO	DRS			
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											
2											
3											
┢											
4											

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM			
Available Space (.0508)			SITE CLASSIFICATION (.0509):		
System Type(s)			EVALUATED BY:	SOL SCA	
Site LTAR			OTHER(S) PRESENT:		
Maximum Trench Depth					
Comments:					
				NEL MARCH	

Alens Buter Revised January 2024 Form SSE-24.2

NORTH

NCDHHS/DPH/EHS/OSWP

### LEGEND

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

\* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.
 \*\*Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

In inches below natural soil surface

HORIZON DEPTH DEPTH OF FILL RESTRICTIVE HORIZON SAPROLITE

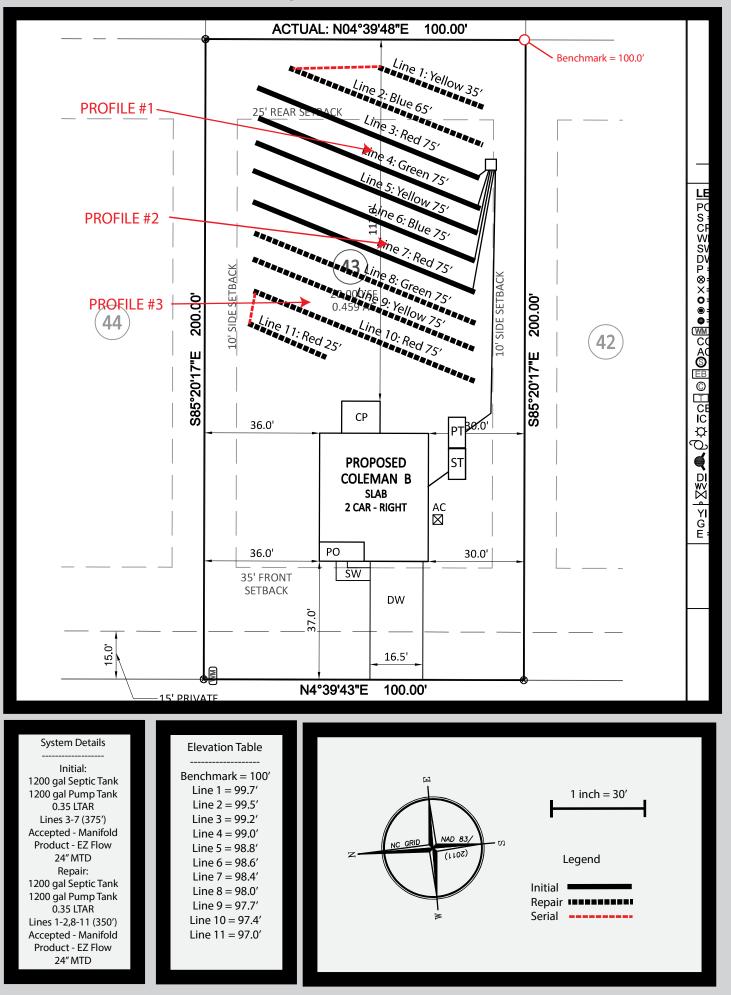
SOIL WETNESS CLASSIFICATION Thickness and depth from land surface

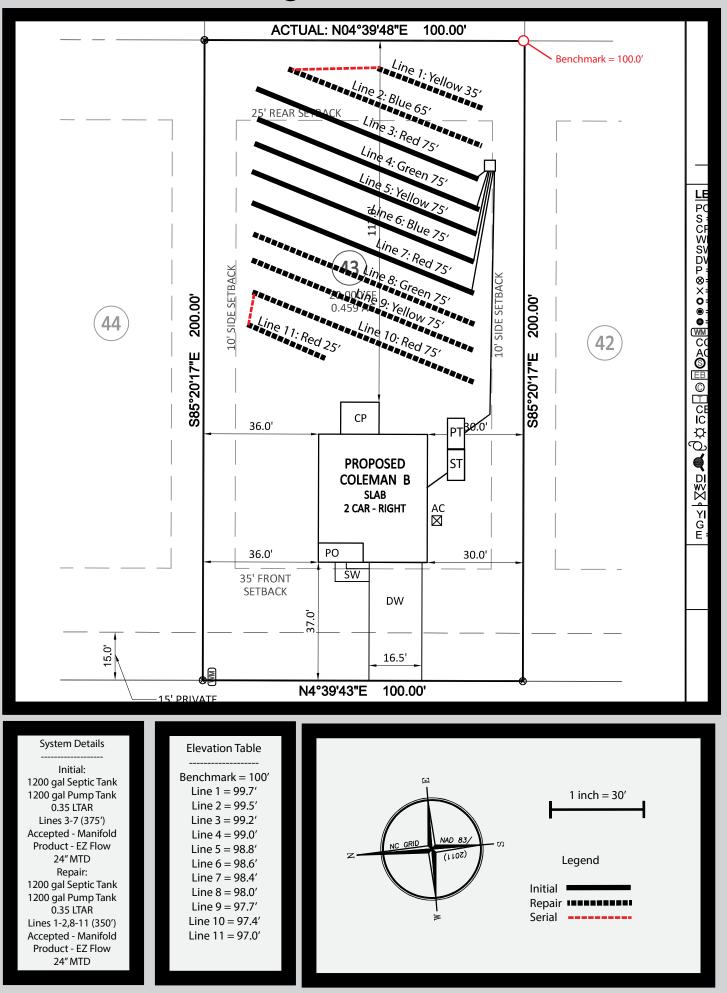
In inches from land surface

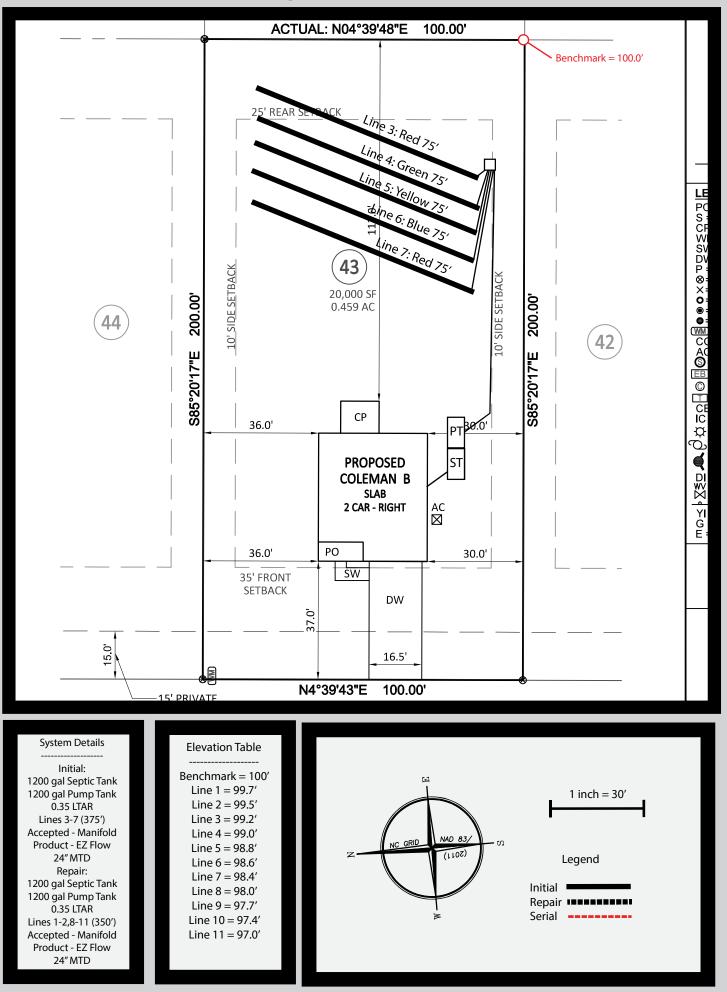
S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.

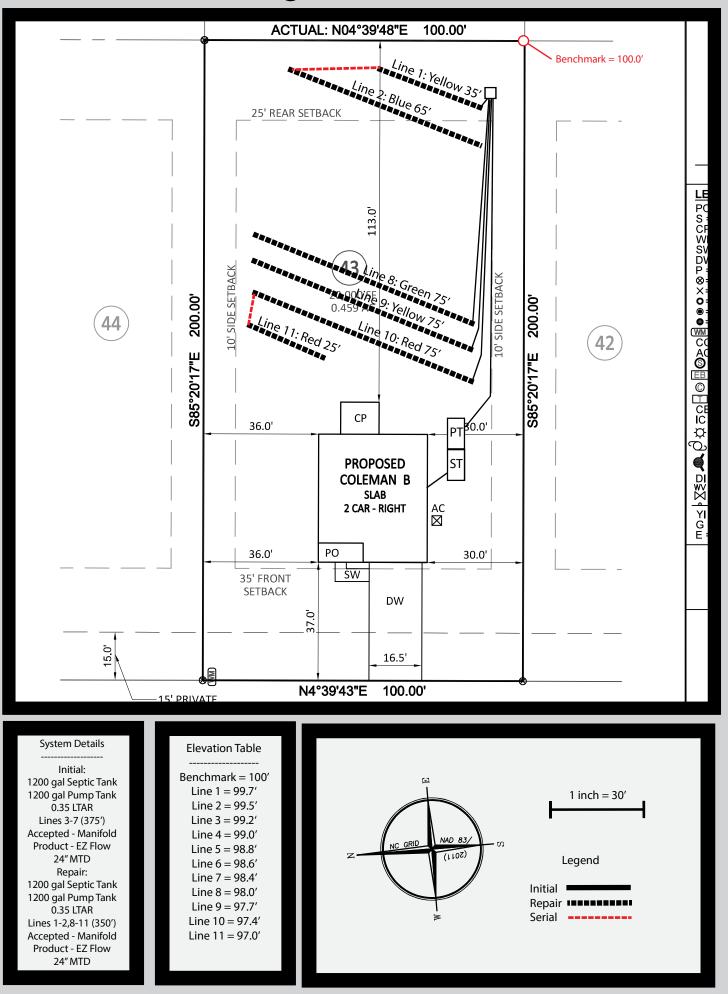
Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation S (Suitable) or U (Unsuitable)

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









## Initial System Overview for

Lot 43, Harrington Place

Design Criteria				
Number of bedrooms	4			
Design Flow	480	gal/day		
Soil L.T.A.R.	0.350	gal/day/sq ft		
System Details				
Trench Depth	24	inches		
Total Trench Length	375	feet		
Manifold Length	48	inches		
Manifold Diameter	4in sch 80pvc			
Supply Line Length	120	feet		
Design Head	2	feet		
Elevation Head	8.20	feet		
Total Design Head	13.55	feet		
Dose Volume	171	gallons		
% Pipe Volume	70	_		
Drawdown	8.5	in inches		
Pump Run Time	17.52	minutes		

## System Components Trench Product

Trench Product	EZ FLOW
Septic Tank	1200 gallons
Pump Tank	1200 gallons
Effluent Filter	Polylok PL-68 (or approved equivalent)
Effluent Pump	Zoeller Dose-Mate Model 151/152/153 (or approved equivalent)
Control Panel	SJE Rhombus Model 112 panel (or approved equivalent)

#### **RESIDENTIAL PRESSURE MANIFOLD DESIGN**

Permit #	Harrington	<u>43</u>						
# of BDR: <u>4</u>	Daily Flow:	<u>480</u>	gal/day	L.T.A.R.:	<u>0.3500</u>	gal/day/sq.ft		
Septic Tank: <u>1200</u>	gals	Pump Tank:	<u>1200</u>	gals	Sq. Foot:	<u>1125</u>	System Type:	<u>Accepted</u>
Number of Taps:	<u>5</u>	Length o	f Trenches:	<u>375</u>	ft(See Tap	o Chart for Deta	ails)	
Depth of Trenches:	<u>24</u>	in	Ма	nifold Length:	<u>48</u>	in		
Manifold Diameter:	4in sch 80pv	<u>c</u>	Tap Config	juration: 6 in s	pacing	<u>1</u>	side(s) of man	ifold
Supply Line: length:	<u>120</u>	ft		Diameter:	<u>2</u>	in sch 40pvc		
Friction Loss + Fitting Lo	oss:	<u>3.35</u>	ft(supply li	ne length + 70	' for fitting	s in pump tanl	k)	
Design Head:	<u>2</u>	ft	Elevation H	lead:	<u>8.20</u>	ft		
Total Head: <u>13.55</u>	ft		Pu	mp to Deliver:	<u>27.40</u>	gals/min at	<u>13.55</u>	ft head
Dosing Volume:	<u>171</u>	gals,						
Drawdown: 171	_gals divided	by	<u>20</u>	gals/in =	<u>8.5</u>	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.

			т		Т						
Benchmark	1	is = 100.00	set at Property C	orner			Design Head:	2			
Pump tank elev.		4	97.00	Pump elev.	92.00		Manifold elev.	100.20			
-										# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
3		1.80	99.20	75	1/2in SCH 80	5.48	96.00	225	0.4267		
4		2.00	99.00	75	1/2in SCH 80	5.48	96.00	225	0.4267		
5		2.20	98.80	75	1/2in SCH 80	5.48	96.00	225	0.4267		
6		2.40	98.60	75	1/2in SCH 80	5.48	96.00	225	0.4267		
7		2.60	98.40	75	1/2in SCH 80	5.48	96.00	225	0.4267		
			101.00			0	0.00	0	#DIV/0!		
			101.00			0	0.00	0	#DIV/0!		
			101.00			0	0.00	0	#DIV/0!		
			101.00			0	0.00	0	#DIV/0!		
			101.00			0	0.00	0	#DIV/0!		
			Total Feet =	375	gal/min =	27.40		LTAR =	0.3500		
			Feet Required =	343	Velocity =	2.62		(ltar + 5%)	0.3675		
Total # of Panels (P	PBPS)			Des. Flow	480			(Itar w/25% red)	0.4667		
% of Dose Vol.		70		Pump Run=	17.52			(ltar + 5%)	0.4900		
Dose Volume		171		Tank Gal/IN	20						
Dose Pump Time		6.23		Elev. Head	8.20						
Drawdown in Inche	S	8.5									
Comments:											

## **Repair System Overview for**

Lot 43, Harrington Place

Design Criteria		
Number of bedrooms	4	
Design Flow	480	gal/day
Soil L.T.A.R.	0.350	gal/day/sq ft
System Details		
Trench Depth	24	inches
Total Trench Length	350	feet
Manifold Length	42	inches
Manifold Diameter	4in	sch 80pvc
Supply Line Length	120	feet
Design Head	2	feet
Elevation Head	8.70	feet
Total Design Head	13.57	feet
Dose Volume	159	gallons
% Pipe Volume	70	
Drawdown	8.0	in inches
Pump Run Time	19.06	minutes

## System Components

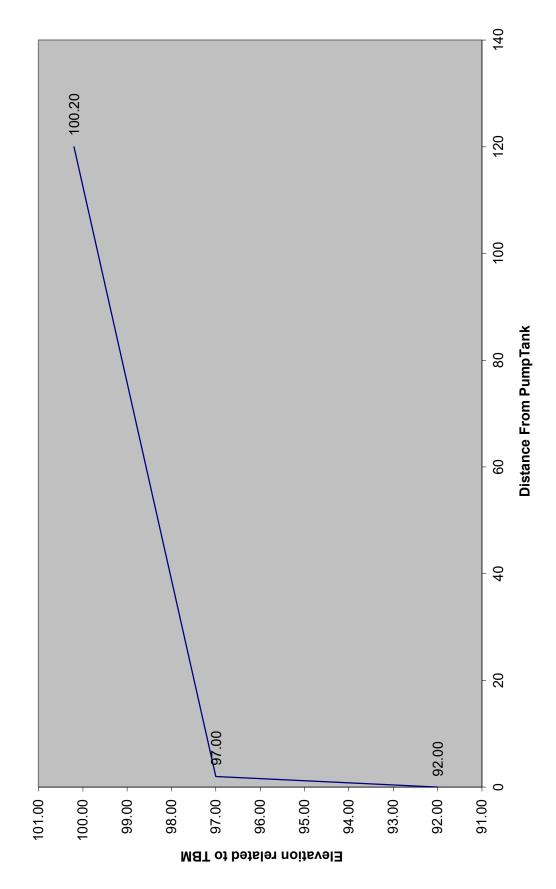
Trench Product	EZ Flow
Septic Tank	1200 gal
Pump Tank	1200 gal
Effluent Filter	Polylok PL-68
Effluent Pump	Zoeller Dose-
Control Panel	SJE Rhombus

#### PRESSURE MANIFOLD DESIGN - REPAIR SYSTEM

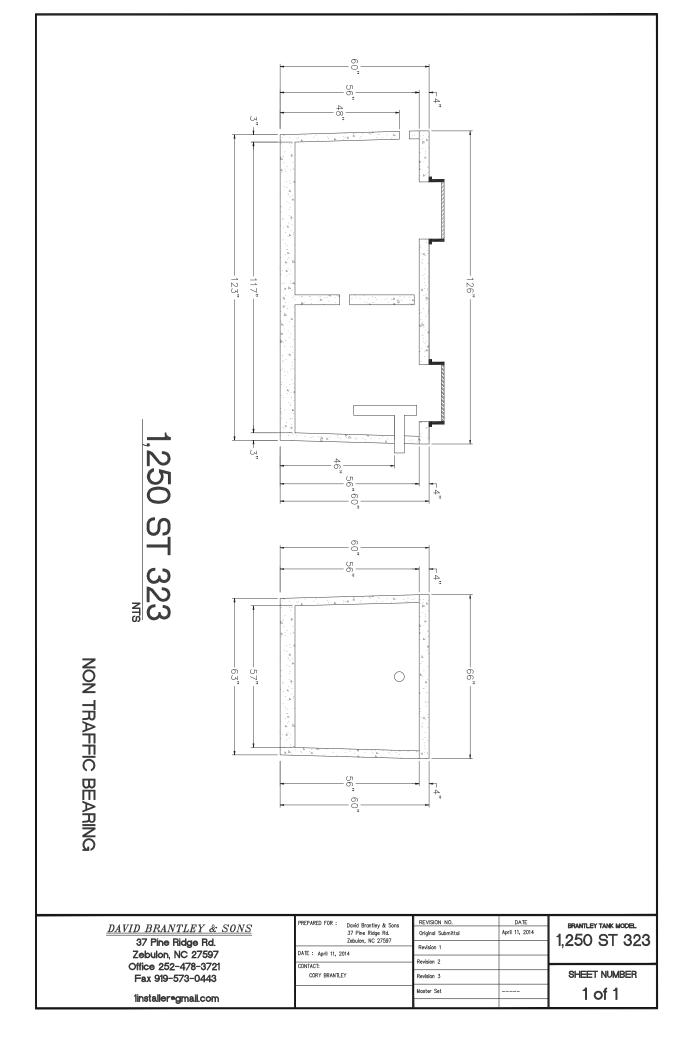
# of BDR: <u>4</u>	Daily Flow:	<u>480</u>	gal/day	L.T.A.R.:	<u>0.3500</u>	gal/day/sq.ft		
Septic Tank: 1200	gals	Pump Tank:	<u>1200</u>	gals	Sq. Foot:	<u>1050</u> Sy	stem Type	<u>Accepted</u>
Number of Taps:	<u>4</u>	Length of	Trenches	: <u>350</u>	ft(See Tap	Chart for Details)		
Depth of Trenches:	<u>24</u>	in	Manifo	old Length:	<u>42</u>	in		
Manifold Diameter:	4in sch 80p	<u>/c</u>	Tap Conf	iguration: (	6 in spacing	<u>1</u> sio	de(s) of ma	nifold
Supply Line: length:	<u>120</u>	ft		Diameter:	<u>2</u>	in sch 40pvc		
Friction Loss + Fitting	g Loss:	<u>2.87</u>	ft(supply	line length	+ 70' for fitt	tings in pump tan	k)	
Design Head:	2	ft	Elevation	Head:	<u>8.70</u>	ft		
Total Head: <u>13.57</u>	ft		Pump	to Deliver:	<u>25.18</u>	gals/min at	<u>13.57</u>	ft head
Dosing Volume:	<u>159</u>	gals,						
Drawdown: 159	_gals divideo	d by	<u>20</u>	gals/in =	<u>8.0</u>	inches		

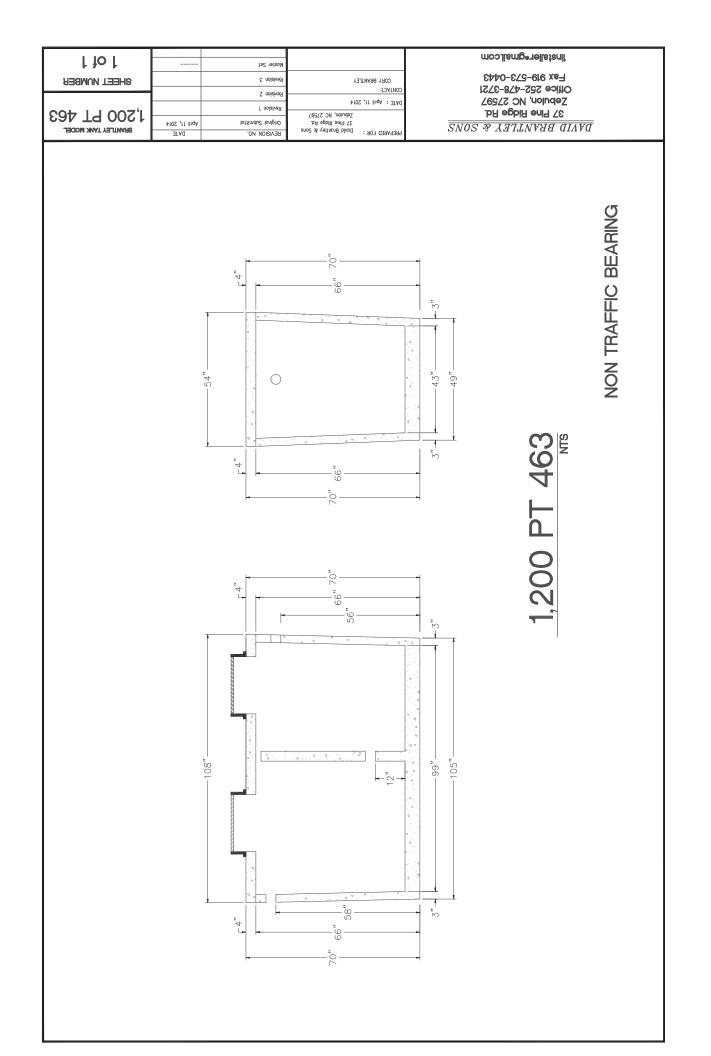
Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.

			т		RT						
Benchmark	<u>1</u>	is = 100.00	set at Property C	orner			Design Head:	2			Change in
Pump tank elev.		4	97.00	Pump elev.	92.00		Manifold elev.	100.70		# of Panels	Spacing of
line	color	rod read	Elevation	length	hole size	flow/tap	gal/day	trench area	LINE LTAR	(PPBPS)	Panels (in)
One-Two	Yel/Blue	1.30	99.70	100	1/2in SCH 40	7.11	135.54	300	0.4518		
8	Green	3.00	98.00	75	1/2in SCH 80	5.48	104.46	225	0.4643		
9	Yellow	3.30	97.70	75	1/2in SCH 80	5.48	104.46	225	0.4643		
Ten-Eleven	Red/Blue	3.60	97.40	100	1/2in SCH 40	7.11	135.54	300	0.4518		
			101.00			0	0.00	0	#DIV/0!		
			101.00			0	0.00	0	#DIV/0!		
			101.00			0	0.00	0	#DIV/0!		
			101.00			0	0.00	0	#DIV/0!		
			101.00			0	0.00	0	#DIV/0!		
			101.00			0	0.00	0	#DIV/0!		
			Total Feet =	350	gal/min =	25.18		LTAR =	0.3500		
			Feet Required =	343	Velocity =	2.41		(ltar + 5%)	0.3675		
Total # of Panels	(PPBPS)			Des. Flow	480			(Itar w/25% red)	0.4667		
% of Dose Vol.		70		Pump Run=	19.06			(ltar + 5%)	0.4900		
Dose Volume		159		Tank Gal/IN	<u>20</u>						
Dose Pump Time	)	6.32		Elev. Head	8.70						
Drawdown in Inc	hes	8.0									
Comments:											









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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**

		1
	Horse Power	1/3 (151), 4/10 (152), 1/2 (153)
	Voltage	115 or 230
E E	Phase	1 Ph
1 2	Hertz	60 Hz
MOTOR	RPM	3450
≥	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
	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
ပ	Base	Plastic or cast iron
	Upper Bearing	Sleeve bearing
	Lower Bearing	Ball bearing
MATERIALS	Mechanical Seals	Carbon and ceramic
<u> </u>	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.

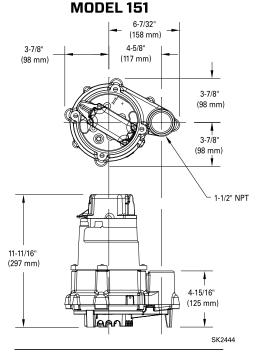
SSPM/A



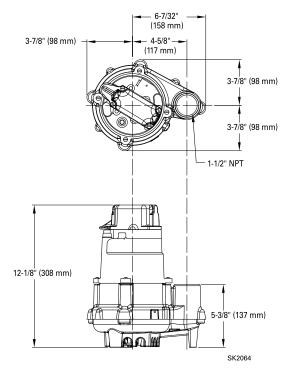








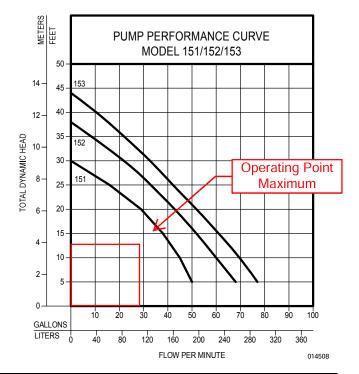
#### MODELS 152 & 153



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## TOTAL DYNAMIC HEAD FLOW PER MINUTE

MO	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	110	44	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	f Head:	30 ft.	(9.1m)	38 ft. (	11.6m)	44 ft. (1	l3.4m)	



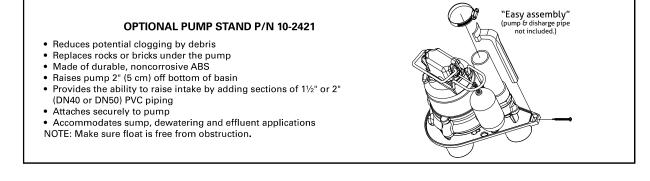
Model					МС	DEL CO	MPARISO	N			
Model	Seal	Mode	Volts	Ph	Amps	HP	Hz	Lbs	Kg	Simplex	Duplex
N151	Single	Non	115	1	6.0	1/3	60	32	15	1	2 or 3
E151	Single	Non	230	1	3.0	1/3	60	32	15	1	2 or 3
BN151	Single	Auto	115	1	6.0	1/3	60	33	15	*	2 or 3
BE151	Single	Auto	230	1	3.0	1/3	60	33	15	*	2 or 3
N152	Single	Non	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**

- 1. 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.



**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).

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#### 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.

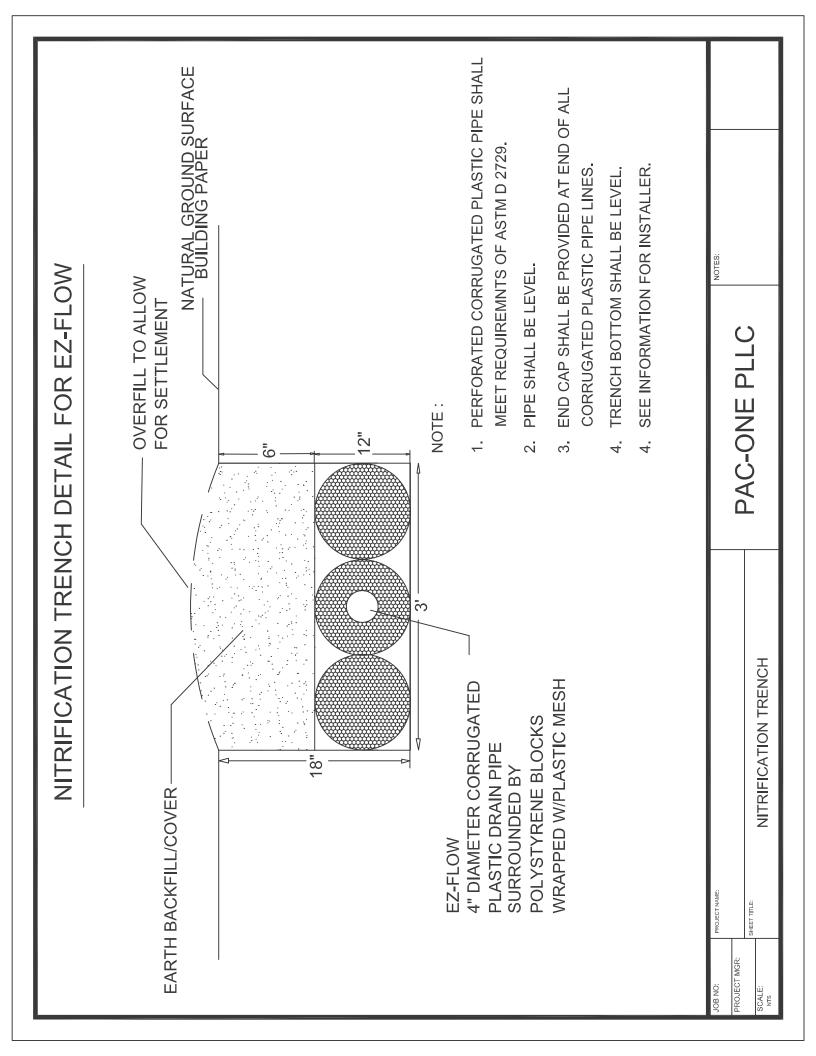
Related Products: PL-68 Filter Concrete Baffle Extend & Lok™



Extend & Lok™ Easily installs into existing tanks.



BRANTLEY TANK MODEL SMALL SMALL SHEET NUMBER SHEET NUMBER	TAD 4/102,111 frigh	REVISION NO. Mater Set Revision 2 Revision 2	PREPARED FOR : David Brantley & Sons 37 Pire Ridge Rd. DATE : April 11, 2014 CONTACT: CONTACT:	Jinstalleregmail.com37 Pine Ridge Rd.37 Pine Ridge Rd.Chilce 252-478-3721Office 252-478-3721Dire 252-478-3721
		0	-TOP OPTIONAL CONCRETE OR METAL 2.0" 2.5" 23.0"	
	4" / 6" DIA30.0"		4 TO 8 HOLES 2.5" - LOP VIEW 2.5" - LOP VIEW METAL METAL 2.5" - 2.5" 2.5" 2.5" 2.5" 2.5" 2.5" 2.5" 2.5"	4"/6" DIA. OPTIONAL SIDE VIEW SIDE VIEW NIS NIS
			4	



# **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

 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).

 $^{\ast}$  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
- 9. 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.

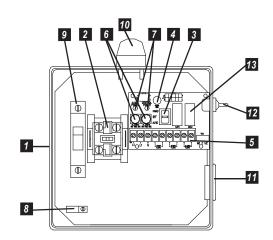
- 12. Exterior Alarm Test/Normal/Silence Switch allows horn and light to be tested and horn to be silenced in an alarm condition. Alarm automatically resets once alarm condition has been cleared.
- 13. Horn Silence Relay (mounted on circuit board).

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<sup>®</sup> control switches
- Complete with step-by-step installation instructions
- Three-year limited warranty





Model Shown 1121W914X





	112   IODEL 11	1 2		9			4	H		8A,80	C,3A,10E	,
	-											
	LARMPACKAGE											
	= select options of = alarm package			ence switch	fuse red	l liaht horn	& float)					
		-	sunonnai/sii		luse, leui	light, nom						
	= Indoor, NEMA 1											
w	/ = Weatherproof,		naineered th	ermonlastic)								
	TARTINGDEVICE	•	inginoorod in									
	= magnetic moto		20/208/240	/								
	= magnetic moto											
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	· · · · ·											
1	= 7-15 FLA											
	= 15-20 FLA											
3	= 20-30 FLA											
P	UMP DISCONNE	стѕ——										
	= no pump discor											
4	= circuit breaker						- )					
-			240V (select S	TARTINGD		on Tabov	e)					
	LOATSWITCHA											
	or L = pump down = no floats	or pump up	select 17 op	otion)								
^	WITH alarm pack	ane										
	WITHOUT alarm											
C	<b>OPTIONS</b> Liste											
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				ono_timo_on	closuro u	incizo fo	hluow o	annly				
×			auu a	one-time en	closure u	ıpsize fe	e would	apply.				
	E DESCRIPTION		auu a o	one-time en	closure u	ıpsize fe	e would	apply.				
	A Red beacon only			one-time en	co	DDE DESC	RIPTION					
1 <i>F</i>	A Red beacon only (must select 1E	if floats inclu		one-time en	cc	DDE DESC	<b>RIPTION</b> A 1 alarm	panel (must				
1 <i>F</i>	A Red beacon only (must select 1E C Horn only / no v	<i>if floats inclu</i> isual	uded)	one-time en		DDE DESC	<b>RIPTION</b> A 1 alarm A 4X alarn	panel <i>(must</i> n panel <i>(must</i>	st select	option 6A	,	
1/ 1/	A Red beacon only (must select 1E	<i>if floats inclu</i> isual	uded)	one-time en	cc 1 1 1	DDE DESC 1C NEM 1D NEM	<b>RIPTION</b> A 1 alarm A 4X alarn disconnec	panel <i>(must</i> n panel <i>(must</i>	st select	option 6A	)  h door, non-fus	ed)
14 10 10	A Red beacon only (must select 1E C Horn only / no v (must select 1E	<i>if floats inclu</i> isual	uded)	one-time en		DDE DESC 11C NEM 11D NEM 14B Main 0-20	<b>RIPTION</b> A 1 alarm A 4X alarn disconnec FLA	panel <i>(must</i> n panel <i>(must</i>	st select	option 6A	,	ed)
	A Red beacon only (must select 1E C Horn only / no v (must select 1E E Alarm float	if floats inclu isual if floats inclu	uded)	one-time en	cc 1 1 +*1 **[ *	DDE         DESC           1C         NEM.           1D         NEM.           4B         Main           0-20         20-30	<b>RIPTION</b> A 1 alarm A 4X alarn disconnec FLA ) FLA	panel <i>(must</i> n panel <i>(must</i>	st select le, moun	option 6A	,	ed)
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14 10 10 10 10 10 10 10 10 10 10	<ul> <li>A Red beacon only (must select 1E</li> <li>C Horn only / no v (must select 1E</li> <li>E Alarm float</li> <li>A Alarm flasher</li> <li>B Manual alarm reflect</li> <li>A Redundant off (select option 4L)</li> </ul>	if floats inclu isual if floats inclu eset D if floats in	uded) uded) cluded)	one-time en	CC     1     1	DDE         DESC           1C         NEM.           1D         NEM.           4B         Main           0-20         20-30           5A         Contri           6A         10' c           6B         15' c	RIPTION A 1 alarm disconnec FLA ) FLA rol / alarm ord in lieu ord in lieu	panel (must n panel (must t (rotary styl circuit break of 20' (per p of 20' (per p	st select le, moun ker float) float)	option 6A	,	ed)
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$\begin{array}{c c} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 4 \\ & 4 \\ & \star 3 \\ & \star 4 \\ & \star 4 \\ & \star 4 \\ & \star 4 \\ & \star 5 \\ & \star 6 \\ & \star 5 \\ & \star 8 \\ & \times & \star 8 \\ \end{array}$	<ul> <li>A Red beacon only (must select 1E</li> <li>C Horn only / no v (must select 1E</li> <li>E Alarm float</li> <li>A Alarm flasher</li> <li>B Manual alarm ref</li> <li>A Redundant off (select option 4L</li> <li>B Red redundant off (select 4A option</li> <li>C Redundant off fl (select 4A option</li> <li>C Redundant off fl (select 4A option</li> <li>C Thermal cutout/fr reset (for pumps</li> <li>E Seal failure circu</li> <li>A Auxiliary alarm of A Elapsed time model</li> </ul>	if floats incluisual if floats incluies if floats incluies eset D if floats in off indicator also) loat n) (select 17 heat sensor w/thermal su uit & red indicontact, form eter	uded) uded) cluded) & alarm ' option) auto witch leads) icator (2 wire)		CC     1     1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ↓	DE         DESC           11C         NEM.           11D         NEM.           14B         Main           0-200         20-30           5A         Contrational Contratity Contrelational Contrelating Contrational Contratity Con	RIPTION A 1 alarm A 4X alarm disconnec FLA ) FLA ord in lieu ord in lieu ord in lieu ord in lieu SignalMasi SignalMasi or Float <sup>®</sup> / or Float <sup>®</sup> M or Float <sup>®</sup> M or Float <sup>®</sup> M	panel (must n panel (must t (rotary styl of 20' (per of 20' (per of 20' (per of 20' (per of 20' (per ter <sup>®</sup> / mounti ter <sup>®</sup> / externa- internally w externally w Aini / pipe cl Aini / externa-	st select le, moun (cer float) float) float) float) ng strap ally weig eighted areighted areighted ally weig (ally weig (ally weig (ally weig)	• option 6A, ted throug • (per flo • (per flo • (per flo (per float) • (pat)	h door, non-fus oat) per float) at) aat) ver float)	
$\begin{array}{c c} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 4 \\ & 4 \\ & \star 3 \\ & \star 4 \\ & \star 4 \\ & \star 4 \\ & \star 4 \\ & \star 5 \\ & \star 6 \\ & \star 8 \\ \times & \star 8 \end{array}$	<ul> <li>A Red beacon only (must select 1E</li> <li>C Horn only / no v (must select 1E</li> <li>E Alarm float</li> <li>A Alarm flasher</li> <li>B Manual alarm ref</li> <li>A Redundant off (select option 4L</li> <li>B Red redundant of (must select 4A</li> <li>D Redundant off (select 4A option</li> <li>A Thermal cutout/r reset (for pumps</li> <li>E Seal failure circu A Auxiliary alarm of E Event (cycle) co</li> </ul>	if floats incluisual if floats incluies if floats incluies eset D if floats in off indicator also) loat n) (select 17 heat sensor w/thermal su uit & red indicontact, form eter	uded) uded) cluded) & alarm ' option) auto witch leads) icator (2 wire)		CC     1     1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ↓	DE         DESC           11C         NEM.           11D         NEM.           14B         Main           0-200         20-30           5A         Contraction           6A         10' cc           6B         15' cc           6C         30' cc           6D         40' cc           7A         SJE           7C         Sens           7D         Sens           7D         Sens           7F         Sens           17J         Sens           9T         TOA	RIPTION A 1 alarm A 4X alarm disconnec FLA ) FLA ord in lieu ord in lieu ord in lieu ord in lieu SignalMasi SignalMasi or Float <sup>®</sup> / or Float <sup>®</sup> M or Float <sup>®</sup> M or Float <sup>®</sup> M or Float <sup>®</sup> M	panel (must n panel (must t (rotary styl of 20' (per of 20' (per of 20' (per of 20' (per of 20' (per ter <sup>®</sup> / mounti ter <sup>®</sup> / externa- internally w externally w Aini / pipe cl Aini / externa-	st select le, moun (cer float) float) float) float) ng strap ally weig eighted areighted areighted ally weig (ally weig (ally weig (ally weig)	• option 6A, ted throug • (per flo • (per flo • (per flo (per float) • (pat)	h door, non-fus oat) per float) at) at)	
$\begin{array}{c c} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 4 \\ & 4 \\ & \star 3 \\ & \star 4 \\ & \star 4 \\ & \star 4 \\ & \star 4 \\ & \star 5 \\ & \star 6 \\ & \star 8 \\ \times & \star 8 \end{array}$	<ul> <li>A Red beacon only (must select 1E</li> <li>C Horn only / no v (must select 1E</li> <li>E Alarm float</li> <li>A Alarm flasher</li> <li>B Manual alarm ref</li> <li>A Redundant off (select option 4L</li> <li>B Red redundant of (must select 4A</li> <li>D Redundant off (select 4A option</li> <li>A Thermal cutout/r reset (for pumps</li> <li>E Seal failure circu A Auxiliary alarm of E Event (cycle) co A Pump overload</li> </ul>	if floats incluisual isual if floats incluises off floats in off indicator also) loat n) (select 17 heat sensor w/thermal su uit & red indi contact, form eter unter	uded) uded) & alarm ' option) auto witch leads) icator (2 wire) C	,	CC     1     1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ↓	DE         DESC           11C         NEM.           11D         NEM.           14B         Main           0-20         20-30           5A         Contraction           6A         10' c           6B         15' c           6C         30' c           6C         30' c           7A         SJE           7C         Sens           7D         Sens           7D         Sens           7F         Sens           17J         Sens           9T         TOA           door         TOA	RIPTION A 1 alarm A 4X alarm disconnec FLA ) FLA ord in lieu ord in lieu ord in lieu ord in lieu ord in lieu SignalMasi SignalMasi or Float <sup>®</sup> / or Float <sup>®</sup> / or Float <sup>®</sup> M or Float <sup>®</sup> M or Float <sup>®</sup> M or Float <sup>®</sup> M	panel (must n panel (must t (rotary styl of 20' (per of 20' (per of 20' (per of 20' (per of 20' (per ter <sup>®</sup> / mounti ter <sup>®</sup> / externa- internally w externally w Aini / pipe cl Aini / externa- pipe clamp Automatic) st	st select le, moun (cer float) float) float) float) ng strap ally weig leighted lamp ▲ ( ally weig (ally weig ( her f witch and	<ul> <li>● (per fld throug)</li> <li>● (per fld (per flo (per flo (per flo at)))</li> <li>▲ (per flo at))</li> <li>hted ▲ (p</li> <li>flo at)</li> <li>d pump ru</li> </ul>	h door, non-fus oat) per float) at) ver float) un light through	,
$\begin{array}{c c} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 4 \\ & 4 \\ & \star 3 \\ & \star 4 \\ & \star 4 \\ & \star 4 \\ & \star 4 \\ & \star 5 \\ & \star 6 \\ & \star 8 \\ \times & \star 8 \end{array}$	<ul> <li>A Red beacon only (must select 1E</li> <li>C Horn only / no v (must select 1E</li> <li>E Alarm float</li> <li>A Alarm flasher</li> <li>B Manual alarm red</li> <li>A Redundant off (select option 4L</li> <li>B Red redundant of (must select 4A</li> <li>D Redundant off (select 4A option</li> <li>A Thermal cutout/r reset (for pumps</li> <li>E Seal failure circut A Lapsed time mic</li> <li>C Event (cycle) co</li> <li>A Pump overload specify amperag</li> </ul>	if floats incluisual isual if floats incluises off floats in off indicator also) loat n) (select 17 heat sensor w/thermal su uit & red indi contact, form eter unter e after numb	uded) uded) cluded) & alarm ' option) auto witch leads) icator (2 wire) C	,	CC     1     1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ★★1     ↓	DE         DESC           11C         NEM.           11D         NEM.           14B         Main           0-20         20-30           5A         Contri           6A         10' c           6B         15' c           6B         15' c           6C         30' c           6D         40' c           7A         SJE           7C         Sens           7D         Sens           7F         Sens           17F         Sens           17J         Sens           9T         TOA           door         9U	RIPTION A 1 alarm A 4X alarm disconnec FLA ) FLA orl / alarm ord in lieu ord in lieu ord in lieu ord in lieu SignalMasi SignalMasi or Float <sup>®</sup> / or Float <sup>®</sup> / or Float <sup>®</sup> M or Float <sup>®</sup> M or Float <sup>®</sup> / (Test/Off// mounted (Hand/Off/	panel (must n panel (must t (rotary styl of 20' (per of 20' (per of 20' (per of 20' (per of 20' (per ter <sup>®</sup> / mounti ter <sup>®</sup> / externa- internally w externally w Aini / pipe cl Aini / externa- pipe clamp Automatic) st	st select le, moun (cer float) float) float) float) ng strap ally weig leighted lamp ▲ ( ally weig (ally weig ( her f witch and	<ul> <li>● (per fld throug)</li> <li>● (per fld (per flo (per flo (per flo at)))</li> <li>▲ (per flo at))</li> <li>hted ▲ (p</li> <li>flo at)</li> <li>d pump ru</li> </ul>	h door, non-fus oat) per float) at) aat) ver float)	,
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Alarm Package Enclosure Rating Starting Device Pump Full Load Amps Pump Disconnect Float Switch Application		
Options: Flasher, Elapsed Tin SJE SignalMaster <sup>®</sup> / pipe clam		<b>→</b>

## **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 <u>5 week days</u> 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<sup>®</sup> 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<sup>®</sup>" 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**.



Products and services are offered through Markel Specialty, a business division of Markel Service Incorporated. Policies are written by one or more Markel insurance companies. Terms and conditions for rate and coverage may vary. 201806



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## **CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

C B	HIS CERTIFICATE IS ISSUED AS A MAT CERTIFICATE DOES NOT AFFIRMATIVEL BELOW. THIS CERTIFICATE OF INSURA REPRESENTATIVE OR PRODUCER, AND		R NEO DOE	GATIVELY AMEND, EXTEN S NOT CONSTITUTE A CO	ND OR /	ALTER THE C	OVERAGE A	E CERTIFICATE HOLDER. THIS	30/2023 S
ll ti	IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the								
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								PERSONAL & ADV INJURY \$	Excluded
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	DED RETENTION \$							\$	
	WORKERS COMPENSATION							X PER OTH-	
	AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE							E.L. EACH ACCIDENT \$	500,000
в	OFFICER/MEMBER EXCLUDED?	N/A		69KOUB-5N24039-7-23		11/14/2023	11/14/2024	E.L. DISEASE - EA EMPLOYEE \$	500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT \$	500,000
~	Errors & Omissions								
С	Errors & Omissions			ME01642		11/22/2023	11/22/2024	General Aggregate	\$1,000,000
								Each Occurrence	\$1,000,000
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHICLES	(ACO	PRD 10	I, Additional Remarks Schedule, m	ay be atta	ched if more spac	ce is required)	<u> </u>	
CF	RTIFICATE HOLDER				CANC				
	*FOR INFORMATIONAL PURPO XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxx	xxx	LY*	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE				
1								11 0 11	
	I				N Whi	tsett/RACI	HEL	N. Reel WD	-

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#### A STOCK COMPANY



## 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.

Kapileen anne Sturgeon

Bun W. Jakes

Secretary

President



## 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.



## 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.



## **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, or within 60 days after the expiration of the **Policy Period** or the Extended Reporting Period.

**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.

#### 1. PROFESSIONAL SERVICES: soil science

#### 2. LIMITS OF LIABILITY

**Professional Liability Coverage** 

	, ,	
Α.	Each Claim:	\$2,000,000
В.	Policy Aggregate:	\$2,000,000
Ad	ditional Payments	
Α.	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
Su	pplementary Payments	
Α.	Disciplinary Proceeding	\$25,000 per Policy Period
В.	Loss Of Earnings And Expense Reimbursement	\$10,000
C.	Public Relations Expenses	\$5,000
D.	Subpoena And Record Request Assistance	\$5,000
Prod	ucer Number, Name and Mailing Address	
9849	6	
Wad	e Associates, LLC New Bern	
PO E	ox 1209	

Davidson, NC, 28036

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