

# NOTICE OF INTENT NPDES GENERAL PERMIT ARG550000 INDIVIDUAL TREATMENT FACILITIES

The attached form can be used by all persons desiring coverage under NPDES general permit ARG550000 (Individual Treatment Facilities). The form should be completed and submitted to this Department no later than thirty (30) days prior to the date coverage is desired.

All information must be provided. If a question does not apply, place "NA" in that space. Do not leave questions blank.

Be sure to read the Individual Treatment Facilities General Permit, ARG550000. It describes when constitutes coverage under this permit, effluent requirements, discharge limitations, and other standard conditions that are applicable to this permit.

40 CFR 122.22(b) states that all reports required by the permit, or other information requested by the Director, shall be signed by the applicant (or person authorized by the applicant) or by a duly authorized representative of that person. A person is a duly authorized representative only if the authorization is made in writing by the applicant (or person authorized by the applicant); the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, superintendent, or position of equal responsibility for environmental matters for the company; the written authorization is submitted to the Director. This Notice of Intent must be signed by a person authorized under the provisions of state and federal law, and who should be familiar with the provisions of 40 CFR 122.22 pertaining to signatory authority. Be sure to read the Certification.

If you have any questions concerning the ARG550000 permit information or Notice of Intent, please contact Permits Branch of this Department at (501) 682-0623. For the purpose of this permit a Home Owner is an individual owning a single residence.

### REMEMBER THE FOLLOWING:

- 1. The Notice of Intent (NOI) must be complete. Do not leave any question blank; use "NA" if a question is not applicable. Outfall information must be completed; it cannot be blank or "NA".
- A map showing the location of the discharge points must be attached to the Notice of Intent at the time of submission.
- 3. Read the Certification.
- 4. A \$200.00 Check payable to ADEQ (Re: ARG550000). (Home owners are exempt.)
- 5. A Disclosure form as required by ACA 8-1-106. (Home owners are exempt.)
- 6. Written approval from the Arkansas Department of Health (ADH) (EHP-19Form) must be submitted with the NOI.
- 7. Please call the following number if you have any questions on this Form:

Торіс	Contact person	Phone Number
Area Map and	Department of the	(TOA) 20 ( 10 T
USGS Hydrologic Unit Code	Interior United States Geological Survey	(501)296-1877
Domestic Drinking Water Supply Intake	Department of Health	(501)661-2623

SCANNED
APR 1 8 2024
MAILROOM

### INSTRUCTIONS

### I. How to Determine Latitude and Longitude:

If a physical address is known go to www.terraserver-usa.com and proceed with the following steps:

- 1. Select Advanced Find
- 2. Select Address
- 3. Input address
- 4. Click on Aerial Photo
- 5. Click on the Info link at the top of the page
- 6. Note the Latitude and Longitude are in Decimal Coordinates.
- 7. Go to <a href="www.geology.enr.state.nc.us/gis/latlon.html">www.geology.enr.state.nc.us/gis/latlon.html</a> to convert coordinates to Degrees, Minutes, and Seconds.

NOTE: If a physical address does not exist you may find the coordinates in the Legal Description of the property.

### II. How to Determine the Accuracy, Method, Datum, Scale, and Description for the Facility/Outfall Latitude and Longitude:

Horizontal **Accuracy** Measure – This indicates the accuracy, **in meters**, of the latitude/longitude location, or how close the specific latitude/longitude location is guaranteed to be to the real-world location. It is typically a function of the method used to obtain the latitude/longitude.

Horizontal Collection **Method** - The text that describes the method used to determine the latitude and longitude coordinates for a point on the earth.

Address Matching-House Number	Public Land Survey-Quarter Section
Address Matching-Block Face	Public Land Survey-Section
Address Matching-Street Centerline	Classical Surveying Techniques
Address Matching-Nearest Intersection	Zip Code-Centroid
Address Matching-Digitized	Unknown
Address Matching-Other	GPS-Unspecified
Census Block-1990-Centroid	GPS with Canadian Active Control System
Census Block/Group-1990-Centroid	Interpolation-Digital Map Source (TIGER)
Census Block/Tract-1990-Centroid	Interpolation-SPOT
Census-Other	Interpolation-MSS
GPS Carrier Phase Static Relative Position	Interpolation-TM
GPS Carrier Phase Kinematic Relative Position	Public Land Survey-Eighth Section
GPS Code (Pseudo Range) Differential	Public Land Survey-Sixteenth Section
GPS Code (Pseudo Range) Precise Position	Public Land Survey-Footing
GPS Code (Pseudo Range) Standard Position (SA Off)	Zip+4 Centroid
GPS Code (Pseudo Range) Standard Position (SA On)	Zip+2 Centroid
Interpolation-Map	Loran C
Interpolation-Photo	Interpolation-Other
Interpolation-Satellite	

Horizontal Reference **Datum** - The code that represents the reference datum used in determining latitude and longitude coordinates.

Unknown	WGS84
NAD27	NAD83

Source Map Scale - The scale used to determine the latitude and longitude coordinates.

Not Applicable	1:62,500
Unknown	1:63,000
1:15,840	1:63,350
1:20,000	1:63,360
1:24,000 (1" = 2,00	0') 1:100,000
1:25,000	1:250,000

Reference Point Description - The place for which geographic coordinates were established.

Facility/Station Building Entrance or Street Address	Facility Center/Centroid
Boundary Point	Intake Point
Treatment/Storage Point	Release Point
Monitoring Point	Other

### III. How to Determine your Hydrologic Basin Code for the Facility/Outfall:

- 1. Locate the county of your facility on the map on Page 4.
- 2. Find the numbered segment overlaying the county. For example 2C overlays most of Saline County.
- 3. Find the Eight Digit Hydrologic Basin Code located inside the numbered segment.

### IV. How to Determine your Stream Segment for the Facility/Outfall:

- 1. Locate the county of your facility on the map on Page 4.
- 2. Find the numbered Stream Segment overlaying the county. For example 2C overlays most of Saline County. 2C would be the Stream Segment for any facility located within that segment.

### V. How to Determine your Ultimate Receiving Waters:

- 1. Locate the county of your facility on the map on Page 4.
- 2. Find the numbered segment overlaying the county. For example 2C overlays most of Saline County.
- 3. Match the number from the segment to one of the numbered Ultimate Receiving Waters. For example: A facility located in Western Saline County is in segment 2C. The "2" determines that the Ultimate Receiving Water for the project is the Ouachita River.
- VI. <u>Signatory Requirements</u>: The information contained in this form must be certified by a <u>responsible official</u> as defined in the "signatory requirements for permit applications" (40 CFR 122.22).

Responsible official is defined as follows:

Corporation, a principal officer of at least the level of vice president, treasurer

Partnership, a general partner

Sole proprietorship: the proprietor/owner

Municipal, state, federal, or other public facility: principal executive officer, or ranking elected official



# WATER DIVISION 5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118 PHONE 501-682-0623 / FAX 501-682-0880 www.adeq.state.ar.us - 1 -

# ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY NOTICE OF INTENT INDIVIDUAL TREATMENT FACILITIES NPDES GENERAL PERMIT ARG550000

Ar	poli	ca	tion	Tv	ne:
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New

Renewal (Permit # ARG55\_\_\_\_\_

### I. PERMITTEE/OPERATOR INFORMATION

Permittee (Legal Name):	Shane & Charlotte Potts				Operator Type:		
Permittee Mailing Address:	9020 Pinnacles Cove				State	Partnership	
Permittee City:	Roland				Federal Corporation*		
Permittee State:	Arkansas Zip: 72135				Sole Proprietorship/Private		
Permittee Telephone Number:	501-690-6009				*State of Incom	poration:	
					The legal nan	ne of the Permittee must be	

Permittee E-mail A	Address: Potts9020@gma	ail.com	
II. INVOICE	MAILING INFORMA	TION (Home owner	rs are exempt.)
		,	• *
Invoice Contact Per	rson: N/A City:		
Invoice Mailing Comp	oany: State:	Zip:	
Invoice Mailing Add	ress: Telephone:		
III. FACILIT	Y INFORMATION		
Facility Name: Potts	Residence	Facility Contact Pers	on: Charlotte Potts
Facility Address: 9020	Pinnacles Cove	Telephone Numb	per: 501-690-6009
Facility County: Pulas	ski Fa	acility City, State & Z	ip: Roland, AR 72135
			92 Deg 32 Min 42.95 Sec
Accuracy: Me	thod: Datum:	Scale:	Description:
Outfall Number:	001		Flow: <u>500</u> gpd (Gallons per I
	001 3C		Flow: <u>500</u> gpd (Gallons per I sin Code: <u>111 102 07</u> de: 92 Deg 32 Min 49.48 Sec
Outfall Number: Stream Segment: Outfall Latitude: Accuracy:	001 3C 34 Deg 50 Min 33.69 Method: Da	Sec Outfall Longitud	sin Code: 111 102 07 de: 92 Deg 32 Min 49.48 Sec de: Description:
Outfall Number: Stream Segment: Outfall Latitude: Accuracy: Type of Treatment:	001 3C 34 Deg 50 Min 33.69	Sec Outfall Longitud	sin Code: 111 102 07 de: 92 Deg 32 Min 49.48 Sec de: Description:
Outfall Number: Stream Segment: Outfall Latitude: Accuracy: Type of Treatment: Receiving Stream:	001 3C 34 Deg 50 Min 33.69 Method: Da Bio Microbics Microfa	Sec Outfall Longitud tum: Sca asst 0.5 with UV and 1	sin Code: 111 102 07 de: 92 Deg 32 Min 49.48 Sec de: Description:
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identical to the name listed with the Arkansas Secretary of State.

Has this treatment system been approved by AHD? Yes No

Arkansas Code Annotated Section 8-1-106 requires that all applicants for the issuance or transfer of any permit, license, certification or operational authority issued by the Arkansas Department of Environmental Quality (ADEQ) file a disclosure statement with their applications. The filing of a disclosure statement is mandatory. No application can be considered complete without one. You must submit a new disclosure statement even if you have one on file with the Department. The form may be obtained from ADEQ web site at: http://www.adeq.state.ar.us/disclosure\_stmt.pdf.

### VII. CERTIFICATION OF OPERATOR

(Initial) "I certify that, if this facility is a corporation, it is registered with the Secretary of the State of Arkansas."

(Initial) "I certify that the cognizant official designated in this Application is qualified to act as a duly authorized representative under the provisions of 40 CFR 122.22(b). If no cognizant official has been designated, I understand that the Department will accept reports signed only by the Applicant."

(Initial) "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Responsible Official Printed Name Responsible Official Signature: Responsible Official Email:

Cognizant Official Printed Name: David Meints Title: Class III Operator Cognizant Official Signature:

Cognizant Official Email: david@meincowastewater.com

#### X. PERMIT REQUIREMENT VERIFICATION

Please check the following to verify completion of permit requirements.

 $Yes\ No$  \* If No is answered for any of the questions, then a permit can not be issued!

Submittal of Complete NOI?

Submittal of Required Permit Fee?

Check Number:

Submittal of AHD Form EHP-19?

Submittal of Site Map?

Submittal of Disclosure Statement?

WATER DIVISION 5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118 PHONE 501-682-0623 / FAX 501-682-0880 www.adeq.state.ar.us





# Arkansas Department of Health Environmental Health Protection

25024209

1												-	
Individual Onsite Wastewater System Permit Application						Fee Schedule for Structures   √					1		
Permit Type		New Installation			Stru	- Constant of the contract							
		Alteration / Repa	air		1				\$ 45.00				
	· ·	Alleration / Rep.	Patorabott / Nepail					han 2000 sq ft and u			\$ 90.00		
DR Environmental ID	#					han 3000 sq ft and u	p to 400	0 sq ft	\$120.00				
7 6 0 1	0 5 5	5 4 7	5 4 7					han 4000 sq ft			\$150.00 \$ 30.00		
					Aite	ration	and Ke	han			\$ 30,00	[A]	
Part 1 Application Treatment Type (check one) Disposal Method (check one)  □ STD = Standard Septic Tank □ ATU = Aerobic Treatment Plant □ STD = Standard Absorption Field □ LPD = Low Pressure Distribution													
STD = Standard Septic Tank  □ ISF = Intermittent Sand Filter  □ PMF = Proprietary Media Filter  □ OTH = Other (Describe)  □ TLD = Aerobic Treatment Plant  □ STD  □ STD = Standard Septic Tank  □ RSF = Re-circulating Sand Filter  □ RSF = Re-circulating Gravel Filter  □ CPF  □ OTH = Other (Describe)							e Disc	harge [	HLD:	= Low Pressur = Holding Tani = Serial Distrib = Drip Irrigatio	k utlon	on	
1. Owner's/Applicant		1 100 100 100			A lint between			2. Phone Numbe			4.77	-	
Shane & Charlo	tte Potts	c/o	Cox	Constr	ruction	Group	LL	(501) 912-173	7			1	
3. Mailing Address	la I III a Da	ak AD 70000						4. County					
<ol> <li>116 Caurel Circ</li> <li>Address of Propos</li> </ol>			ot availa	hie atta	ach defai	led dir	rection	Pulaski					
		nd, AR 72135 (G				iou un	000011	o i map)					
6. Subdivision Name				oroval D		1	B. Dat	te Recorded		9. Lot Num	ber		
Pinnacles Subd	ivision		n/a				n/a			3			
10. Lot Dimensions 470' x 652' x 20	0' ~ 708'		11. To		a (Acres)	1	12. #	Bedrooms # Peop	ole	13. Daily F	low (GPD)		
14. Brief Legal Descri		erty (Attach a separ			er. if nec	essar				450			
		h, Range 14 Wes				2000	31						
<ol><li>Water Supply (Sp.</li></ol>	, ,,	r, if Public Water)		- 1	16. GPS								
Central Arkansa	as Water	1			34.842	62,-9	2.546	14 (Home) 34.	84262	92.54682	(POD)		
17. Loading Rates	(gpd/ft²)	18. System Speci	fications								0		
Primary Area	n/a	a. Size of Septic T	ank	ATU		gal	f. Trench Depth n/a inches						
Secondary Area	n/a	b. Size of Dose Ta	ink	n/a		gal	g.	French Spacing	n/a		feet		
Percolation Test	(min/in)	c. Absorption Area	1	n/a		ft²	h.	h. Trench Media (List Below) i.Trench			h Width		
Primary Area Avg	n/a	d. Number of Fleid	Lines	n/a			n/a n/a			n/a	in		
Secondary Area	n/a	e. Length of Field	Lines	n/a		ft		n/a			n/a	in	
TO THE OWNER  The permit for construction may be deemed invalid by the local Environmental Health Specialist before the start of construction, if the site and/or soil conditions have changed after approval of this permit, or if the information within this permit is inaccurate or has been found to be misrepresented. Approval for operation does not constitute a guarantee that the system will function properly. The approval states that the system was designed and installed according to the Arkansas Department of Health, Rules and Regulations Pertaining to Onsite Wastewater Systems, unless there are exceptions or deviations noted in the comments. A Permit for Construction is valid for one (1) year from the date of approval. The authorized agent must revalidate a permit more than one (1) year old prior to the start of any construction.  19. Utilization Verification  I hereby attest that item 12, the number of bedrooms (number of persons for commercial) and square footage of the structure that will utilize the designed individual onsite wastewater system in this permit application, is accurate. I have reviewed the permit application and understand the layout, installation, maintenance, operation and expense(s) that may be associated with this system.													
Owner/Applicant Signature													
	ment of Heal	the above tests an th Rules and Regula	ations Pe	ertaining	to Onsi	te Was	stewat	er Systems.	n the la	test requiren	nents of th	ie	
limited literal		1. 2.000	Designa	ated Rep	p. (Kyle (	Gastor	n, DR	in Training)	So	il Certified	Yes	□ No	
_	***************************************	tative Signature						Title					
David A. Me		int Name				03/2	2/202	2 Date	50	1-821-383	7/501-80 Number	4-0837	
21. Approval of Healt The information a Health Rules and	th Authority	ions in the application	on has be Waste	een revi	lewed an	d four	nd to n			the Arkansas hereby issu	Departm	ent of	
	2/	de la					84	24		1-6-2	2		
EM	vironmental Sp	ecialist Signature	-				EHS	Number		Date	0		

### Individual Onsite Wastewater System Permit Application

Receipt Number		

Continue Part	1											
22. Soil Crite		ary Are	ea)	Indicate the der	oth to items a-	f if ohea	erved in the soil (c	decionate in In-	about 1			
a. Bedrock	b. BSV		c. MSWT	d. LSWT	e. Adj. MS\		Adj. LSWT					
n/a	n/a		n/a	n/a	n/a	771	n/a	g. H.C./Dept	GPC.IT			
23. Soll Crite	ria (Seco	ndary				f. If obse	erved in the soil (		n/a			
a. Bedrock	b. BSV	/T	c. MSWT	d. LSWT	e. Adj. MSV		Adj. LSWT	g. H.C./Dept	-			
n/a	n/a		n/a	n/a	n/a		n/a	n/a	n/a			
24. Seasona	Water T	able (	SWT) Classes	NT) Classes Detail								
Prima	гу Агеа			Lis	t Redoximorpi	hic Feat	ures and/or Clay	Content Restri	ctions			
Brief		In	n/a									
Moderate		În	n/a									
Long		in	n/a									
Second	ary Area			List	Redoximorph	nic Féatu	res and/or Clay (	Content Restric	tions			
Brief		īn	n/a									
Moderate		In	n/a									
Long		in	n/a									
Comments		_										
Home is	ras b	Pern	nit required. If ired.	system is not in	istalled withi	in a yea	ar of the date an	oproved, a rev	rface discharge. NPDES validation fee may be			
				area area	101	ant I	1122017					
Part 2 Ins			ection			Pump	information					
Septic tank m	aterial						n media and width	h				
Dose tank ma		r		рирона				•				
		*'					of interceptor dra	ain				
Dose tank ma						Depth	of settled fill					
Name of Insta	aller								License Number			
Installation Ins (check one or in			□ Environme em Installation Ve	ental Health Spec rification below)	ialist o	Design	ated Representat	tive				
System Instal	lation Vor		nature			-	EHS / License	Number	Date			
System Installation Verification I have installed this system as designed and in compliance with all Rules and Regulations Pertaining to Onsite Wastewater Systems.												
		Installe	r Signature				License Numi	ber	Date			
Part 3 Per	Part 3 Permit for Operation											
The information Health. THE I	n contain PERMIT F	ed in F OR O	Part 1 and 2 of PERATION of	his form has been his system is her	n reviewed an eby issued.	d found	to meet the requi	irements of the	Arkansas Department of			
Environmental	Health S	pecial	ist									
Comments				Signature			EHS Number		Date			
Site Revalidati (check one)	on condu	cted b	у о	Environmental I	Health Special	list	□ De	esignated Repr	esentative			
		Si	gnature				EHS / License No	umber	Date			

## \* Optional System Utilization Verification Form



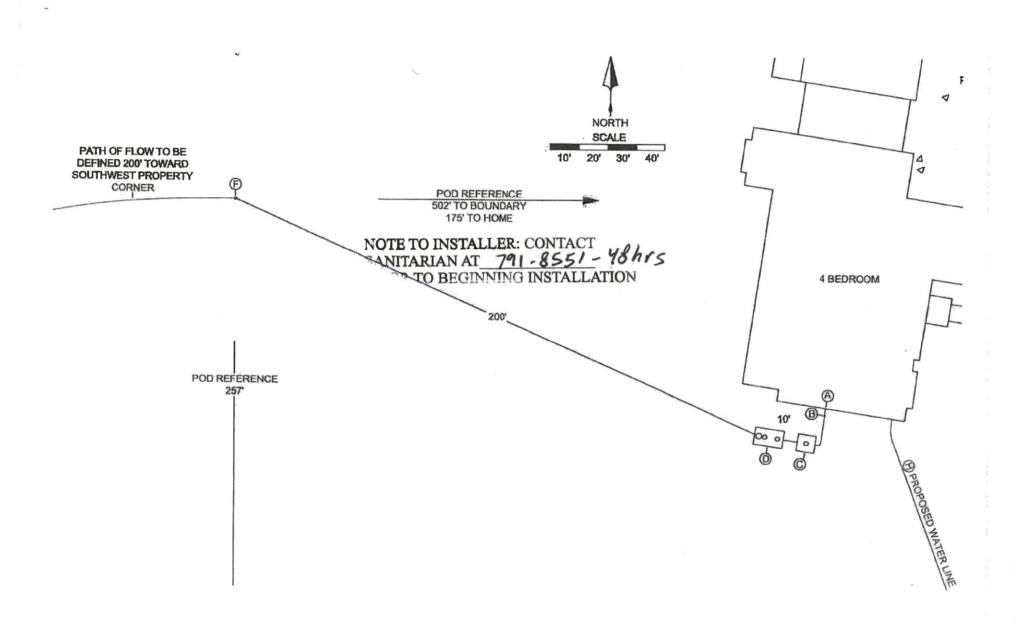
### Arkansas Department of Health Environmental Health Protection

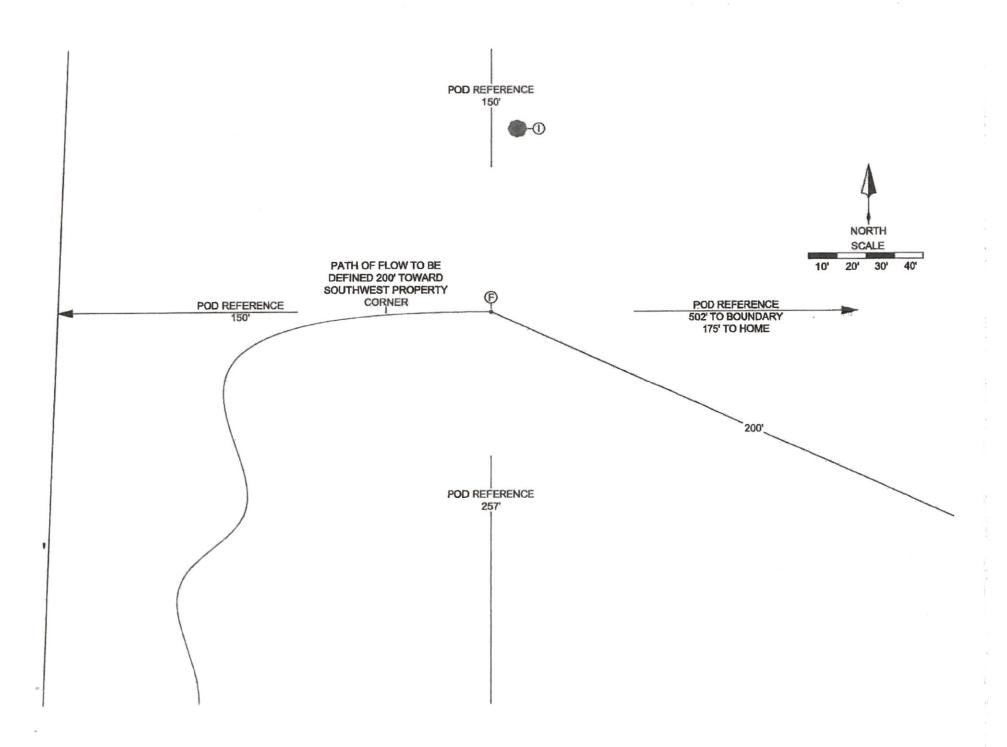
Receipt Number	

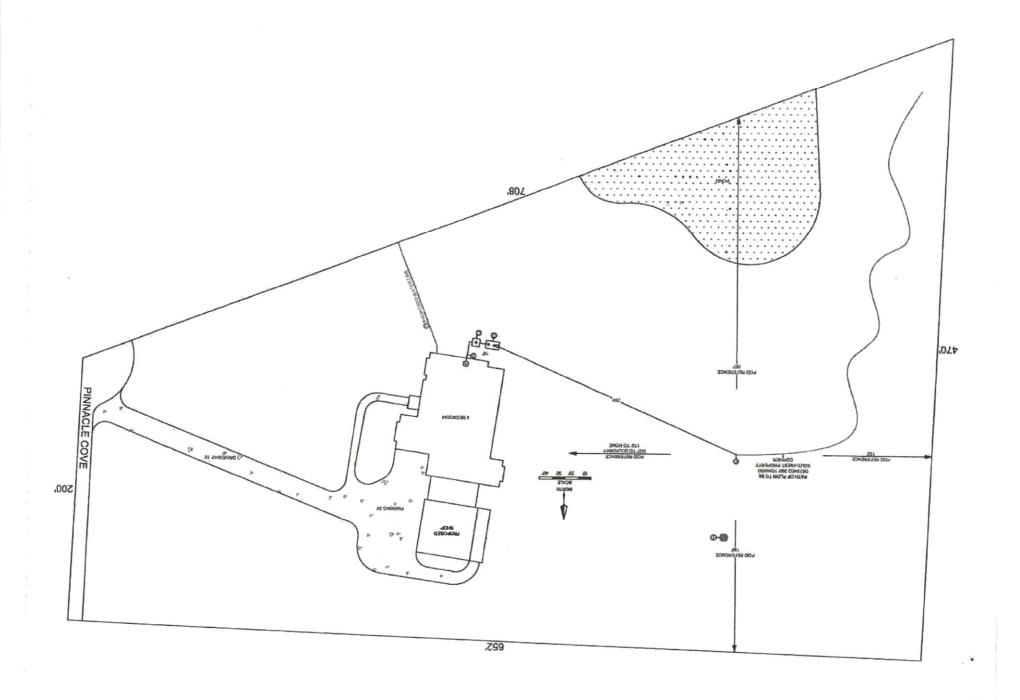
Individual Onsite Wastewate	r System Permit Application	Fee Schedule for Structures	1
Permit Type	New installation	Structures 1500 aq ft or less \$ 30.00	
	Alteration / Repair	Structures more than 1500 sq ft and up to 2000 sq ft \$ 45.00 Structures more than 2000 sq ft and up to 3000 sq ft	
DR Environmental ID #		\$ 90.00 Structures more than 3000 sq ft and up to 4000 sq ft	
7 6 0 1 0 5 5	5 4 7	\$120.00 Structures more than 4000 sq ft	
		\$150.00 Alteration and Repair Ls 30.00	× ×
☐ Homeowner			The street of th
⊠ Builder/Developer			
M Dulidel/Developel			
TO THE PROPERTY C	OWNER		
Onsite Wastewater Sys	stem Utilization Verification	on	
		odivision, Roland, AR 721	35
Property location:	(Address of Proposed	System, City, State, Zip)	
I becoke an analysis			
		number of persons for commercial)	
the square footage of	the structure that will	utilize the designed onsite wastew	/ater
system in this permit ap	oplication is accurate. Il	have reviewed the permit application	and
		e, operation and expense(s) that ma	
associated with this sys		, , , , , , , , , , , , , , , , , , ,	,
•			
As Developer/Builder, I	hereby attest that the	above information is correct and price	or to
		uyer, all information associated with	
system.			
		Α	
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Owner/Applicant Signat	ture 19 nan	Cex Cox Constru	tion Group
2	_		u
Date			
This document must be subr	mitted with the permit applic	ration, if the Owner/Applicant Signature Sec	tia

EHP-19, OPT-A (R 8/13)

(number 19 on the EHP-19) is not signed.









References are found in the Arkansas State Board of Health Rules and Regulations Pertaining to Onsite Wastewater Systems Effective 12/1/2014.

### Zone A: LEGEND TO AutoCAD DRAWING

- A <u>Sewer stub out location.</u> Maximum depth of flow line from existing grade is 22" (Reference Appendix F). Show this drawing to your plumber.
- B 2-way clean out location. Sewer popper required. Install clean out and sewer popper at or above grade (Reference 8.13). Fall to inlet of septic tank can be no less than 1/8" per foot, and no more than ¼" per foot (Reference 4.1).
- C <u>Trash tank location.</u> Risers to grade over inlet and outlet, minimum 18" diameter (Reference 10.7.8). Effluent filter required Orenco Filter FTS0436-28 (Reference 10.7.6). Bed and backfill septic tank with ¾" or smaller gravel (Reference 10.4). Septic tank must meet or exceed manufacturer requirements, 5000 psi, aged 28 days minimum (Reference 10.7.3 10.7.5.1)
- D Aerobic Treatment Unit location. Disinfection required. Refer to included spec sheet for precise model.
- E Dose tank. If applicable.
- F Point of Discharge (POD). POD meets all setbacks required. (Reference 9.8)
- G Soil pit location, if applicable. Not used due to shallow seasonal water tables or contour issues.
- H Proposed water line. Water line must be installed 10' from any part of wastewater system (Reference 6.2.8).
- Benchmark location.

### PIPE SPECIFICAITONS

House stub out to trash tank inlet: 4" Schedule 40 Pipe Trash tank to Aerobic Treatment Unit: 4" Schedule 40 Pipe Aerobic Treatment Unit to dose tank: 4" Schedule 40 Pipe Dose tank to Point of Discharge: 2" Schedule 40 Pipe

### **PUMP SPECIFICATION**

### Zoeller BN53

### TANK SPECIFICATION

Manufacturer: Whitten Concrete 500 Gallon Trash Tank and 1000/250 Gallon Combo Tank

### TREATMENT UNIT SPECIFICATION

BioMicrobics Fast 0.5

### **EFFLUENT STRENGTH**

Biochemical oxygen demand < 300 mg/L Total suspended solids < 300 mg/L Fats, oil, and grease < 25 mg/L (Reference 9.41 and Appendix B, Footnotes)

Any changes or substitutions to the notes and specifications in this permit must be approved by the Designated Representative.



### **GROUND AND INSTALLED ELEVATIONS (feet & inches)**

Component	Ground	Flow Line	Fall
Stub Out	11-04"	13-02"	22"
Trash Tank Inlet Trash Tank Outlet	11-07" 11-07"	13-06" 13-09"	4" 3"
ATU Inlet ATU Oulet	11-08" 11-10"	13-10" 12-10"	1" -12" (Out of Riser)
Point of Discharge	07-07"	07-07"	-63" *
Benchmark	03-05"	Large Pine Tree (Se	e Drawing)

### **NOTES**

NPDES permit required on all surface discharging wastewater systems. (Reference 9.6 and 11.1)
Aerobic Treatment Units must comply with the AR Department of Health's Onsite Wastewater Systems Monitoring
Program. (Reference 12)

Any changes or substitutions to the notes and specifications in this permit must be approved by the Designated Representative.

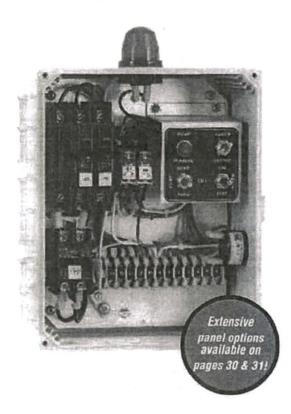
<sup>\*</sup>Add 6' to pump curve elevation to accommodate for pump depth in tank.



# \$4,000,00

## SINGLE-PHASE SIMPLEX

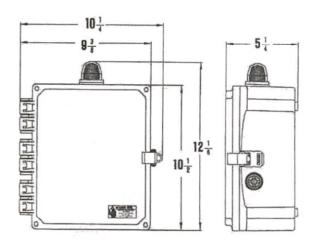
# SPI SINGLE-PHASE SIMPLEX DEMAND CONTROL PANELS





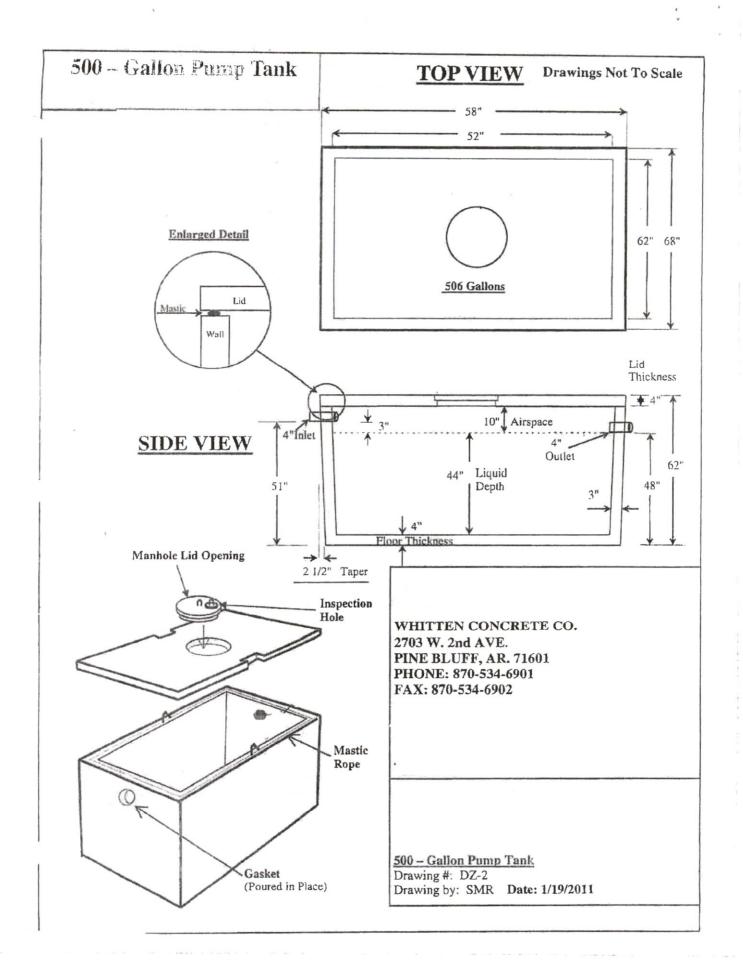
### **FEATURES**

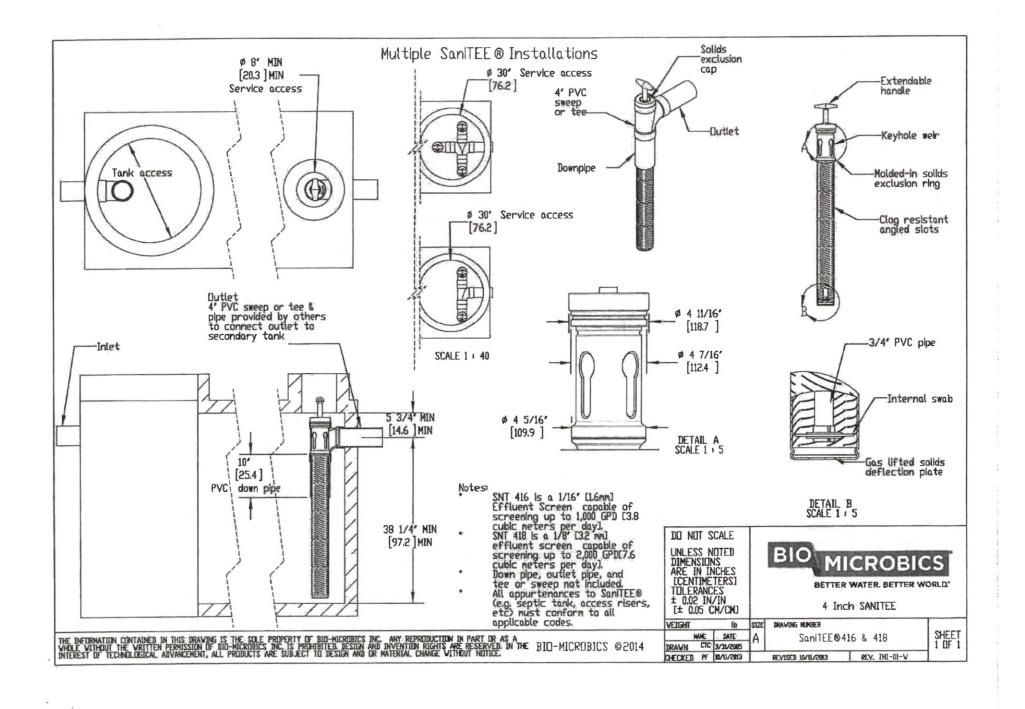
- Available in 120/208/240VAC-1PH models
- 4X rated durable, weather-resistant enclosure with mounting feet and stainless steel latch
- · Main circuit breaker
- · DP-rated motor contactor
- · Easy-to-access, finger-safe terminal block
- · Secondary fuse protection for control circuit
- · Pump hand-off-auto switch with pump run light
- Full alarm circuit (visual and audible alarms)
- · Alarm test and silence switches
- · Color-coded internal wiring
- · Connection diagram and schematic
- · Three-float system (off, on, high water)
- Three 15' mechanical float switches included
- · Built and labeled to UL 508A standard

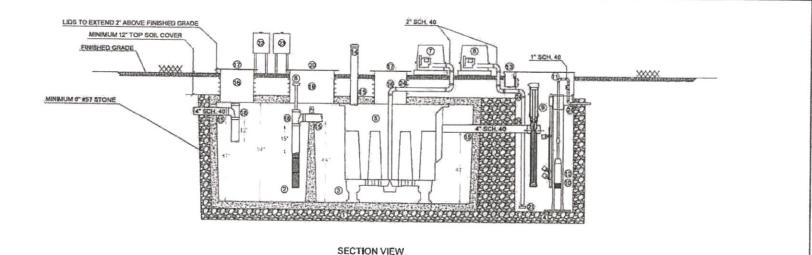


\*Panels include 3 mechanical floats normally open with 15' cords.

PART Number	MODEL Number	SUPPLY VOLTAGE	FLA RANGE	CIRCUIT Breaker	SHIPPING WEIGHT	SUGGESTED LIST PRICE (WITH FLOATS)
50A001	SSC1B	120	0-20	1	13.0 lbs.	\$615.87
50A002	SSC2B	208/240	0-20	1	13.0 lbs.	\$651.73
50A006	SSC12B	120/208/240	0-20	1	13.0 lbs.	\$651.73

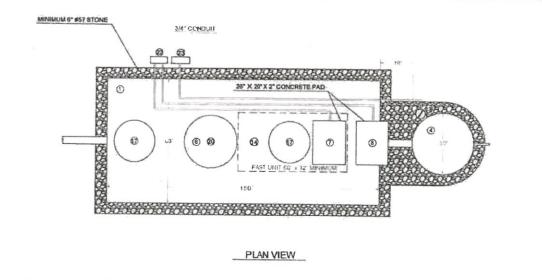






#### EQUIPMENT AND PARTS LIST

- 1. WHITTEN CONCRETE TANK OR EQUIVALENT, VOLUME 1500 **GALLONS**
- SETTLING TANK, 500 GALLONS
- TREATMENT TANK VOLUME, 1000 GALLONS STEELE PLASTICS PUMP BASIN, 30" X 72" (STEELE PLASTICS BA30X072TA & CVF30SLDRT) OR EQUIVALENT
- 5. MICROFAST TREATMENT UNIT, (BIOMICROBICS MFC 0.5)
- EFFLUENT FILTER, (BIOMICROBICS SANITEE-418)
- 7. BLOWER, (BIOMICROBICS FUJI & HP 1PH VCF30) & HOUSING, (BIOMICROBICS 250-BBHSFL)
- BLOWER, (BIOMICROBICS FUJI 1 PH VCF20) & HOUSING, (BIOMICROBICS 250-BBHSFL)
- UV DISINFECTION UNIT, (SALCOR 3G)
- 10. DISCHARGE PUMP, (ORENCO PF100511) OR EQUIVALENT
- 11. DISCHARGE ASSEMBLY, 1"
- 12. UNIVERSAL FLOW INDUCER, (ORENCO FIT D 50) OR EQUIVALENT
- 13. EXTERNAL SPLICE BOX, (ORENCO SB4EX) OR EQUIVALENT
- 14. VENT CAP, 4", (GIZMO ENGINEERING) OR EQUIVALENT
- 15. BOOT SEAL, (POLYLOK 3005-CE)
- 18. RISER, ULTRA-RIB, 18"
- 17. FIBERGLASS LID, 18", (ORENCO FLD18G) OR EQUIVALENT
- 16. SANITARY "T", 4" SCHEDULE 40
- 19. RISER, ULTRA-RIB, 24"
- 20. FIBERGLASS LID. 24", (ORENCO FLD24G) OR EQUIVALENT 21. DIFFUSER, (FINE BUBBLE, 10 SCFM, 304 SS) OR EQUIVALENT
- 22. CONTROL PANEL, (BIOMICROBICS 110V AMI)
- 23. CONTROL PANEL, POST AIR
- 24. GROMMET, MATCH DIAMETER OF PIPE





BIOMICROBICS WASTEWATER TREATMENT SYSTEM ARKARSAS

BIOMICROBICS WASTEWATER TREATMENT SYSTEM FLOW=500 GPD

98 1957 SV reast Water

10-M131

Specifications for MicroFAST 0.50 Wastewater Treatment System

The contractor shall furnish and install (1) MicroFAST®0.50 treatment system as manufactured by Bio-Microbics, Inc. The treatment system shall be complete with all needed equipment as shown on the drawings and specified herein.

The principal items of equipment shall include the FAST® system insert, blower assembly, blower controls and leg extensions or lid. All other items will be provided by others. The MicroFAST 0.50 unit shall be structed within a 450 Gallon [1700L] minimum compartment as shown on the drawings. Suggested maximum settling zone is [1] X the daily flow. Tank must provide adequate pump out access and conform to local, state, and all other applicable codes. The contractor shall coordinate the proper fabrication of the tank between the FAST system and tank supplier with regard to fabrication of the tank, installation of the FAST unit, and delivery to the job site.

2, OPERATING CONDITIONS

The MicroFAST 0.50 treatment system shall be capable of treating the wastewater produced by typical family activities (bath, laundry, kitchen, etc.) ranging from (1) one to (8) eight people and not to exceed 500 US Gallons per day (1800 LPD) provided the waste contains nothing that will interfere with biological treatment. The FAST system is a biological treatment system not meant for non-biodegradable or industrial wastewater.

3. MFDIA

The FAST® media shall be manufactured of rigid PVC, polyethylene, or polypropylene and it shall be supported by the polyethylene insert. The media shall be fixed in position and contain no moving or wearing parts and shall not corrode. The media shall be designed and installed to ensure that sloughed solids descend through the media to the bottom of the septic tank.

The MicroFAST 0.50 unit shall come equipped with a regenerative type blower capable of delivering 17-25 CFM [31-46 m3/hr]. The blower assembly shall include an inlet filter with metal filter element. The blower shall be mounted outside the tank on a contractor supplied concrete base. Blower piping to the tank shall use non-corrosive material (PVC, Galvanized, or stainless Steel). Do not run galvanized pipe inside the treatment tank, Refer to Installation Manual for further details.

The blower shall be placed on a contractor supplied concrete base. The blower must not sit in standing water and its elevation must be higher than the tank and normal flood level. A twopiece, rectangular housing shall be provided. The discharge air line from the blower to the MicroFAST® System shall be provided and installed by the contractor.

The electrical source should be within 150 feet [45 meters] of the blower consult local codes for longer wiring distances. All wiring must conform to all applicable codes [IEC, NEC, etc.]. Wiring distances must prevent significant voltage loss. Input power on 60Hz electrical systems 110/220VAC, 10, 3.5/1.7 FLA, on 50 Hz electrical systems 220VAC, 10, 1.9 FLA. Other voltages and phase are also available. Actual power consumption varies with site conditions, All conduit and wiring shall be supplied by contractor.

The control panel provides power to the blower and contains an alarm system consisting of a visual and audible alarm capable of signaling blower circuit failure and high water conditions. The control panel is equipped with SFR® (Sequencing Fixed Reactor) timed control feature. A manual alarm silence button is included.

**8. INSTALLATION AND OPERATING INSTRUCTIONS** 

All work must be done in accordance with local codes and regulations. Installation of the FAST 0.50 shall be done in accordance with the written instructions provided by the manufacturer. Manuals shall be furnished, which will include a description of system installation, operation, and maintenance procedures.

9. FLOW AND DOSING

FAST® systems have been successfully designed, tested and certified receiving gravity, demand-based influent flow. When influent flow is controlled by pump or other means to help with highly variable flow conditions, then multiple dosing events should be used to maximize performance. The flow rate shall not exceed 5 gpm (19 Lpm) with a maximum hourly flow not to exceed 10% of the design daily flow (50 gph (190 LPH)).

10.WARRANTY

Bio-Microbics, Inc., warrants all new residential FAST® models (MicroFAST® 0.50, 0.625, 0.75, 0.90, and 1.5) against defects in materials and workmanship for a period of two years after installation or three years from date of shipment which ever occurs first. All other FAST® system models are warranted for a period of one year after installation or eighteen months from date of shipment, whichever occurs first. All are subject to the following terms and conditions below:

Duting the warranty period, if any part is defective or falls to perform as specified when operating at design conditions, and if the equipment has been installed and is being operated and maintained in accordance with the willten instructions provided by Bio-Microbics, Inc., Bio-Microbics, Inc., will repair or replace at its discretion such defective parts free at charge. Defective parts must be returned by awner to Bio-Microbics, Inc.'s factory postage poid, if so requested. The cost of labor and all other expenses resulting from replacement at the defective parts and from installation of parts furnished under this warranty and regular maintenance items such as fillers or bubs shall be borne by the awner. This warranty does not cover general system misuse, cerater components which have been disassembled by unauthorized persons, limproperty linited or admanged due to allered or improper witing or overload protection,. This warranty applies only to the treatment plant and does not include any of the structure witing, plumbing, drainage, septic tank or disposal system. Bio-Microbics, Inc., reserves the right to revise, change or modifications in present equipment. Bio-Microbics, Inc. is not responsible for corresponding or or parts thereof, without incurring any abligation to make such changes or modifications in present equipment. Bio-Microbics, Inc. is not responsible for corresponding or incidental danages of any nature resulting from such things ds, but not limited to, defect in design, material, or workmarship, or delays in delivery, replacements or repairs.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. BIO-MICROBICS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FINESS FOR A PARTICULAR PURPOSE. HOW OF REPRESENDATIVE OF PERSON IS A UNITIORIZED TO GIVE ANY OTHER WARRANTY OR TO ASSUME FOR BIO-MICROBICS, INC., ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS. Contact your local distributor for parts and service.

DO NOT SCALE UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN (± 0.05 CM/CM)

BETTER WATER, BETTER WORLD'

MicroFAST 0.50 FAST Unit

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BIO-MICROBICS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BIO-MICROBICS INC. IS PROHIBITED. DESIGN AND INVENTION RIGHTS ARE RESERVED. IN THE INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

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WEIGHT

DRAWN

1b SIZE DRAWING NUMBER DATE NAME MicroFAST® 0.50 Specifications CIC 12/18/2006 CHECKED PF 9/18/2013 REV. INI-05-V REVISED SYLECTORS

SHEET 3 OF 4

# **MODEL AT 1500**

### **UV DISINFECTION SYSTEM**

# INSTALLATION AND OPERATION MANUAL

The Model AT 1500 UV disinfection system is listed with Underwriters Laboratories (UL) under Standard 979 as a residential treatment device. The installer should provide a power disconnect switch mounted to the exterior of the facility being served to de-energize power to the unit during maintenance. Electrical work must be performed in accordance with the latest edition of the National Electrical Code, as well as all applicable local codes. The Model AT 1500 UV disinfection system conforms to the applicable provisions of the Code of Federal Regulations (CFR) requirements including Title 21, Chapter 1, Subchapter J, Radiological Health. CAUTION: DO NOT LOOK DIRECTLY AT THE UV LAMP OR EXPOSE SKIN DURING OPERATION. PERMANENT EYE DAMAGE AND SKIN BURNS WILL OCCUR FROM UV RADIATION EXPOSURE. UV BLOCKING SAFETY GLASSES MUST BE WORN DURING INSTALLATION, SERVICE OR ANY TIME THE LAMP MAY BE ILLUMINATED. UV BLOCKING SAFETY GLASSES ARE AVAILABLE FROM NORWECO.

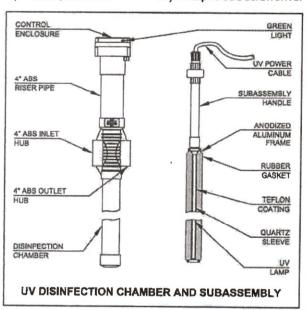
### COMPONENTS

The Model AT 1500 UV disinfection system consists of the following components:

- 1) Control enclosure
- 2) 4" ABS riser pipe
- Disinfection chamber with turbulence inducer
- UV lamp (bulb) with male connector
- 5) Power cable with female twist lock connector
- UV subassembly with quartz sleeve and Teflon coating
- 7) Subassembly handle

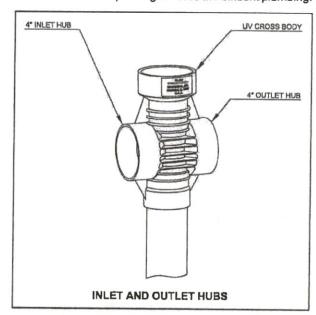
The components should be supplied by the installer:

- 1) Disconnect switch
- 2) Solvent cement
- 3) Hacksaw
- 4) Glycerin (optional)
- 5) Clean, soft cloth
- 6) Isopropyl alcohol
- 7) #14/2 AWG cable
- 8) Conduit and fittings
- 9) Flat head screwdriver
- 10) Phillips head screwdriver



### INSTALLATION INSTRUCTIONS

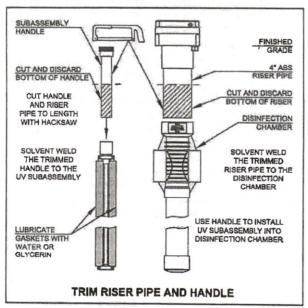
- The excavation for the upstream wastewater treatment system should include an additional 3 feet of length to allow for installation of the Model AT 1500.
- Carefully unpack the Model AT 1500 system. Remove and properly discard all packaging materials from the system components. The UV lamp should remain in the protective shipping sleeve until it is installed.
- Flow direction indicator arrows are molded into the disinfection chamber. When installing the disinfection chamber, be sure to orient the chamber correctly with the flow arrows pointing towards the effluent plumbing.



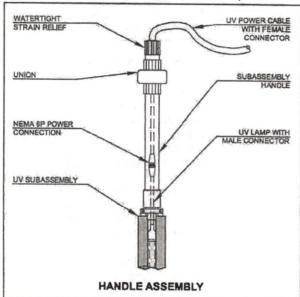
4. Solvent weld the effluent line of the upstream treatment system to the 4" inlet hub of the Model AT 1500. Next, solvent weld the 4" outlet hub to the final effluent line. Cover the open top of the disinfection chamber and backfill up to the bottom of the plumbing.

### AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)

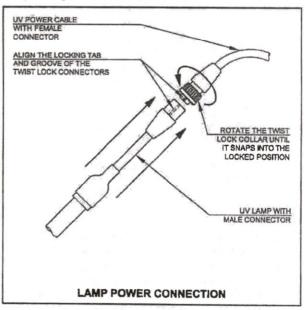
5. The control enclosure should be completely above grade in the finished installation. The riser pipe and subassembly handle are purposely manufactured longer than necessary and must be trimmed. Fit the riser pipe into the top of the disinfection chamber and mark a trim line on the bottom. Mark the subassembly handle on the bottom to trim the same amount.



- Disassemble the union on subassembly handle and set aside the top portion with UV power cable.
- Use a hacksaw to cut along the trim line on both the riser pipe and handle to make them the proper length.
- Solvent weld the riser pipe to the disinfection chamber and solvent weld the handle to the UV subassembly.
- The Model AT 1500 is shipped with the UV power cable connected to the control enclosure. If this power cable



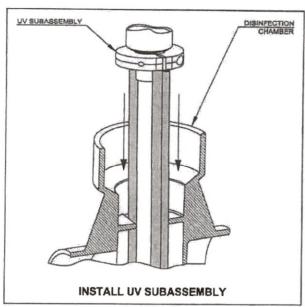
has become disconnected, it must be reconnected at this time. To do so, remove the gasketed cover from the control enclosure. Connect the lead labeled "ONE" on the UV power cable to the terminal block marked "1". Connect the lead labeled "TWO" to the terminal block marked "2". Connect the lead labeled "THREE" to the terminal block marked "3". Connect the yellow/green lead to the terminal marked "Y/G".



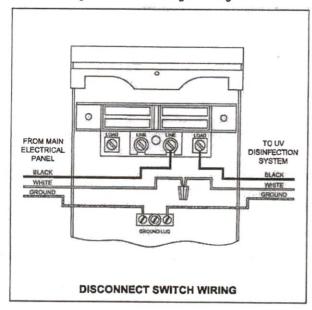
- 10. Remove the threaded access plug from the riser pipe.
- 11. Match the alignment tab on the male connector from the UV lamp to the alignment groove in the female twist lock connector on the UV power cable. Push the two connectors together until the male connector is fully seated in the female connector. Rotate the twist lock collar until it snaps into the locked position.
- 12. Insert the UV lamp and power cable into the handle assembly until the base of the lamp is seated in the bottom of the quartz sleeve. Rotate the power cable if the lamp becomes misaligned.
- 13. Lower the union onto the handle assembly, making sure to pull any slack cable through the strain relief connector. Assemble and tighten the union and strain relief to insure a watertight seal.
- Use water or glycerin to lubricate the rubber gaskets located on both sides of the UV subassembly.
- 15. Do not touch the Teflon coating or allow excess glycerin to contact it. Use a clean, soft cloth and isopropyl alcohol to thoroughly clean the coating.
- 16. Fill the disinfection chamber with clean water.



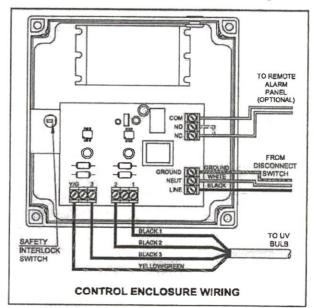
# AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)



- Align the rubber gaskets with the rectangular opening and lower the UV subassembly into the disinfection chamber.
- 18. Tuck the excess power cable into the riser pipe.
- Use a dedicated 115 volt AC single phase 15 amp circuit in the main electrical panel for the AT 1500. NOTE: Make sure the breaker is off before proceeding.
- Use a disconnect switch to de-energize power during service. Mount directly to the facility being served.
- Install a #14/2 AWG cable from the dedicated breaker in the main electrical panel to the disconnect switch.
- 22. In the disconnect switch enclosure, connect the hot (black) lead from the main electrical panel to the "LINE" terminal. Connect the black lead from the UV system to the "LOAD" terminal. Wire nut both white leads together. Connect ground leads to the ground lug.



- 23. Remove the control enclosure cover and black electrical insulator. Install a #14/2 AWG cable from the disconnect switch to the control enclosure. Insure the connection to the UV system is made in conduit, solvent welded to the conduit fitting provided. A watertight connection is critical for proper operation and safety.
- 24. Attach the incoming hot (black) lead to the terminal block marked "LINE". Attach the common (white) lead to the terminal block marked "NEUT". Attach the incoming ground lead to the terminal block marked "GROUND".
- 25. If a remote alarm panel is required, the alarm leads should be installed in a separate conduit, solvent welded to the second conduit fitting provided. Connect one alarm lead to either the normally open (NO) terminal or the normally closed (NC) terminal. Choose the correct terminal for the type of signal required by the remote alarm panel. Connect the other lead to the common (COM) terminal.
- 26. Solvent weld a conduit plug into any unused fittings.
- Apply thread sealant to the access plug and install plug in the riser opening. Tighten to insure a watertight seal.



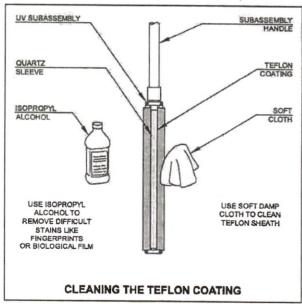
- 28. Reinstall the electrical insulator and four thumb screws. Make sure that the cutout for the safety interlock switch is positioned correctly over the switch.
- 29. Reinstall the control enclosure cover, insuring that the safety interlock post is aligned with the safety interlock switch. Tighten the four screws on the cover to insure a watertight seal. NOTE: If the switch is not aligned with the post, the UV lamp will not operate and the green light on the side of the enclosure will not illuminate.
- Backfill around the disinfection chamber and riser pipe.
   Finished grade should be below the control enclosure to prevent the entry of surface water.
- 31. Turn on power at the disconnect switch and main service panel. Confirm the green light on the enclosure is illuminated indicating proper operation.

### AT 1500 UV DISINFECTION INSTALLATION AND OPERATION (Cont.)

### MAINTENANCE AND SERVICE

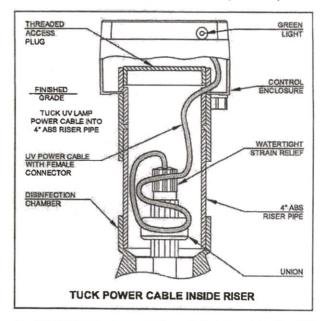
UV protective eyewear must be worn during service or any time the lamp may be illuminated. It is recommended that the subassembly be removed and serviced every six months to insure proper disinfection. To inspect and clean the Teflon coating:

- Turn off power to the UV system at the disconnect switch and/or main service panel. Confirm that the green light on the side of the enclosure is off.
- 2. Remove the control enclosure cover and access plug.
- Carefully remove the UV subassembly from the disinfection chamber
- 4. Inspect the quartz sleeve and Teflon coating for signs of damage or an accumulation of biological film. If the quartz sleeve has been damaged, the UV subassembly must be replaced. If biological film is present on the surface of the Teflon coating, the coating must be cleaned to insure proper disinfection.
- Use a soft damp cloth to carefully and thoroughly clean the Teflon coating.
- Use isopropyl alcohol on a soft cloth to carefully remove difficult stains like fingerprints or biological film.
- Remove all accumulated solids from the disinfection chamber using a vacuum or service pump.



It is recommended that the UV lamp be replaced every two years to insure proper disinfection of the treatment system effluent. The green light on the side of the control enclosure will no longer illuminate when the lamp needs replaced. To replace the lamp:

- 1. Repeat steps 1, 2 and 3 above.
- Disassemble the union on the subassembly handle and remove the UV lamp using the power cable.
- Disconnect the UV lamp from the UV power cord by rotating the twist lock collar ¼ turn.



- Connect new lamp and carefully lower into the UV subassembly. Make sure the lamp is fully seated in the quartz sleeve.
- Reassemble union and tighten strain relief.
- 6. Lower the subassembly into the disinfection chamber.
- 7. Reinstall the threaded access plug into the riser.
- Reinstall the enclosure cover, insuring that the safety interlock post is aligned with the safety interlock switch.
   Tighten the four screws to insure a watertight seal.
- Turn on power at the disconnect switch or main service panel. Verify that the green light on the side of the control enclosure is illuminated.

NOTE: UV lamps contain mercury which is harmful to the environment. Recycle old UV lamps at an authorized center.

### ALARM CIRCUIT

The Model AT 1500 system is equipped with a current sensing circuit to monitor the UV lamp performance. If the UV lamp output drops below an acceptable level for proper disinfection, the alarm circuit will turn off the green light on the enclosure. When connected to the Service Pro control center, the service provider can be immediately notified that maintenance to the UV system is required. For more information regarding connection of the Model AT 1500 UV disinfection system alarm to a Service Pro control center, please refer to the Service Pro Control Center with MCD Technology Installation and Operation Instructions.



NORWECO, INC. NORWALK, OHIO U.S.A. 44857 www.norweco.com

OMMXXI NORWECO, INC. NORWALK, OHIO U.S.A. / REV. 02/2021



## ENVIRONMENTAL

Zealter Family of Water Solutions:

# **Zoeller Company**



# System Head Curve and Pump Selection Tool

Static Head Information Static Head - elevation difference from low water to cutfail Syxtem high point above outfail?	12,0 feet No						Syste	em / Pu	mp Inter	action Cui	rves			
Friedrice (1 or 1) for the			1	35	10-16 pt 1	DEPENDED.	SEATED IN	I SPERMY			WELL THE R		A ENGRY SE	- 407
Friction Head Information				1650				墨路拉伯	例据是 外侧线	STATE OF STATE OF		61 (619)/50/50	150	
		1		15 m	25.5				A Paris				<b>10</b>	System Curve
How many different pipes in the system (not counting laterals)?	1			30								/		Static & Friction Design Point
Pipe 1 Length	200 feet				神经 经			S. English	<b>自己的</b>		SERVICE OF SERVICE	/	0.00	
Pipe 1 Size	2 inches					March 1				Carrier S			554	High Point Elev.
Pipe 1 Class	SCH40			25	起語答言	PERSON.					/			Clarus Pump 1
1943 324 2x 1 Gasu				23										Clarus Pump 2
To a 2 Supple									<b>科意思的</b>				1707	Zoeller Pump 1
K4.4 \$ \$28										/				Zoeller Pump 2
Ope & Clary			ee	20		5 555			1	1			0	Operating Points
Pressurized Laterals7	No	1	Head (feet)			-		12 12 12	/				<b>自由公主</b>	18
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Fittings & Discharge Assemblies							创造影响							
Type	Size	Quantity		40										
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					- 5 6	经过速度		REED IN						
						SHIP								
	Real Property			5				N. BACKS						
Special Friction Considerations				10,000								TO PERSON		
Weep Hole	Yes	1/8 =		100		5								
Add-In Friction	15 % of Pipe Loss			13.5	Sezzal D	A COMPANY			<b>建學科學學</b>	1 201	表面號		SEE S	
Automatic Multicone Valve? Pressure Filter?	No			0		110000000000000000000000000000000000000	HO-BRIDGER	The second second	II DEBLUST B	320 8 8 8 8	RECHIEF	SECTION FOR	E121	3.0
Fressure Filtery	No			0	5	10	) 1	5	20	25 30	3	5 40	0	45
Operating Head Information									Flow (GI	PM)				
System Type	Non-Pressurized	Specify Flow Requirement?								•				
Separate Presidents		Yes	Flow Requirement	10.1	PM	NOTE	THE DISPLA	YED PUMP	CURVES HAVE	BEEN ADJUSTED	TO ACCOUN	T FOR THE EFF	FECT DE 1	HE WEED HOLE
La transport											_			and Park I was a second
THE STATE OF		NAME OF TAXABLE PARTY.		Pump Sel		60 Hz	Frequency			Design Poin		Curve Zo	om Range	40 GPM
gen very Directory	Section 1 to 1 to 1			Clarus Pum		Pumps		Oper	ting Points	10,0 GPM				
Data a san president in Separate Autom		Elega Relación		- Section Carrie	COMMENTS.	200 200 PM	C Acceptable	1985		@ 13.5°TD	733			
				Clarus Pum	2					Project Data		- of the state of	-	Notes:
		ALESS AND THE PARTY AND THE PA		<b>学图中形态的</b>	<b>自然的特别</b>		of Bushing			Project Name:	Brian Cox			1-1/4" Dischurge Assembl
Factors and Coefficients	***************************************		ı	Zoelles P.	n Commercia					Project Address		ecles Subdivision		2º Transport Line
Hazen-Williams C Factor	130			Zoeller Pum Zoeller Pum			9, 0.3hp, 60h	h Langue	IPM @ 15.6	1	Roland, Al	₹ 72135		
Discharge Coefficient (Cd)	0.61			Zoeller Pum		00103H3 (10	w, w.anp, our	2 10(1.0	W. 15.41	Contact Info:	Meinco, Inc			
			I	THE REAL PROPERTY.						EGOINGEL HISO.	Landine, my	**		I
ateral Design Mode	OH								- 1		501-821-38	337		

### Your Peace of Mind is Our Top Priority®

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



Zoeller Family of Water Solutions

SECTION: 2.15.020 FM2778 0515 Supersedes 0315

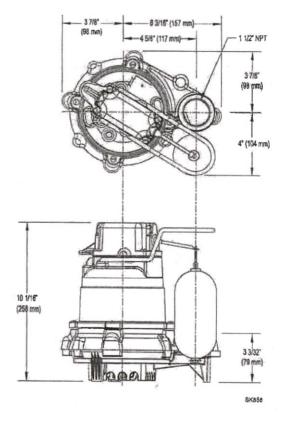
### TECHNICAL DATA SHEET

### **MIGHTY-MATE SERIES**

Cast Iron Models 53, 57 and Bronze Models 55, 59 Submersible Effluent / Dewatering Pumps

### **PRODUCT SPECIFICATIONS**

	Horse Power	3/10			
	Voltage	115 or 230			
Œ	Phase	1 Ph			
5	Hertz	60 Hz			
MOTOR	RPM	1550			
Σ	Туре	Shaded pole			
	Insulation	Class B			
	Amps	4.8 - 9.7			
	Operation	Automatic or nonautomatic			
	Auto On/Off Points	7-1/4" (18.4 cm) / 3" (7.6 cm)			
7. 19	Discharge Size	1-1/2" NPT			
	Solids Handling	1/2" (12 mm) spherical solids			
4	Cord Length	9' (3 m) automatic, 15' (5 m) nonautomatic			
PUMP	CordType	UL listed, 3-wire, grounded plug			
乙	Max. Head	19.25' (5.9 m)			
1.40	Max. Flow Rate	43 GPM (163 LPM)			
	Max. Operating Temp.	130° F (54° C)			
	Cooling	Oil filled			
	Motor Protection	Auto reset thermal overload			
THE REAL PROPERTY.	Cap	Cast iron or bronze			
- 2- 0.4	Motor Housing	Cast iron or bronze			
	Pump Housing	Cast Iron or bronze			
S	Base	Cast iron, bronze or engineered thermoplestic			
MATERIALS	Upper Bearing	Sleeve bearing			
È	Lower Bearing	Sleeve bearing			
Ш	Mechanical Seals	Carbon and ceramic			
Z	ImpellerType	Non-clogging vortex			
2	Impeller	Plastic, cast iron or bronze			
	Hardware	Stainless steel			
	Motor Shaft	AISI 1215 cold rolled steel			
	Gasket	Neoprana			



NOTE: See model comparison chart for specific details.



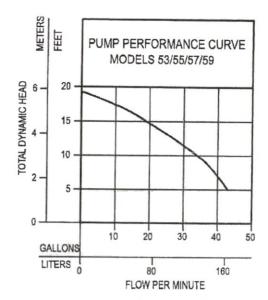






### TOTAL DYNAMIC HEAD FLOW PER MINUTE

МО	DEL	53/55/57/59			
Feet	Meters	Gal.	Liters		
5	1.5	43	163		
10	3.0	34	129		
15	4.6	19	72		
Shut-off	Head:	19.25 ft.(	5.9m)		



009897

Model			MODEL COMPARISON								
Model	Seal	Mode	Volts	Ph	Ampa	HP	Hz	Lbs	Kg	Simplex	Duplex
M53/M55	Single	Auto	115	1	9.7	3/10	60	23	10	1	***
N53/N55	Single	Non	115	1	9.7	3/10	60	23	10	2	3 & 4
* BN53	Single	Auto	.115	1	9.7	3/10	60	25	11	*	***
* BE53/BE57	Single	Auto	230	1	4.8	3/10	60	24/30	11 / 13		***
D53	Single	Auto	230	1	4.8	3/10	60	23	10	1	
E53/E55	Single	Non	230	1	4.8	3/10	60	22	10	2	3 & 4
M57/M59	Single	Auto	115	1	9.7	3/10	60	29 / 33	13 / 15	1	***
N57/N59	Single	Non	115	1	9.7	3/10	60	28 / 29	12/13	2	3&4
* BN57	Single	Auto	115	1	9.7	3/10	60	30	13	*	_
D57/D59	Single	Auto	230	1	4.8	3/10	60	30/33	13 / 15	1	
E57/E59	Single	Non i	230	1	4.8	3/10	60	28 / 29	12/13	2	3 & 4
E59	Single	Non	230	1	4.8	3/10	60	29	13	2	3 & 4

<sup>\*</sup> Single piggyback switch included.

### SPECIAL MODEL FEATURES

Additional cord lengths are available in 15' (5 m), 25' (8 m) and 35' (11 m), 50' (15 m) cord lengths available for 230 V units only. BE and BN models include a piggyback variable level pump switch.

Model 53: cast iron switch case, motor and pump housing, a plastic impeller and base. Model 57: all cast iron construction with a cast iron impeller. Model 55: bronze switch case, motor and pump housing, a plastic impeller and base. Model 59: bronze construction with a bronze impeller. Optional pump stand (P/N 10-2421).

### SELECTION GUIDE

- Integral float-operated mechanical switch, no external control required.
- Single piggyback variable level float switch or double piggyback variable level float switch. Refer to FM0477.
- See FM0712 for correct model of Electrical Alternator.
- Variable level control switch 10-0743 used as a control activator with electrical alternator (3) or (4) float system.

### **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 11/2" 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.



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 Gode (NEC) and the Occupational Safety and Health Act (OSHA).

Contract	Number	Potts	
Contract	number:	FULLS	

# SERVICE AND MAINTENANCE CONTRACT

1.	Parties. This contract ("Agreement" or "Contract") is Shane & Charlotte Potts collectively as the "Parties."		ween Meinco Septic Systems, Inc., ("Meinco") and , ("Client"), referred to individually as a "Party" and
2.			
3.	Service Fees. Client agrees to pay Meinco One is service and maintenance specifically work performmore specifically below (hereinafter referred to as invoiced amount is good consideration for this Conbargained for terms of this agreement.	ned o	every Three Months (Quarterly) and described ervice Work"). Meinco and Client agree that the
4.	Materials Charges. During regular maintenance Meinco will replace materials necessary to keep the septic system operating efficiently (chlorine tablets, UV light bulbs, floats, filters, etc.). Meinco and Client agree that Meinco shall submit to client the costs of maintenance parts and materials and Client will promptly pay the same.	9.	Modification to System. If the septic system is modified, abused, mis-used, or altered, then Melnco's responsibility to service or maintain the septic system is terminated. Meinco may remedy such conditions by replacing parts or correcting defects. If Meinco makes such changes to the septic system, then it may charge to client the costs of repairs, modifications, parts, and labor. Meinco may, at its
5,	Laboratory Fees.  A) This paragraph is inapplicable.  B) Client agrees that Melnco will use a third party laboratory, Environmental Services, Inc., for any sampling that is required under this Contract. In such event, Meinco shall submit to Client a laboratory fee of \$150.00 and Client will promptly pay the same.	10.	discretion, seek payment in advance of making any repairs or modifications to the septic system. In such event, Meinco shall not be responsible for any damage or adverse effects for its delay in making repairs or modifications to the septic system.  Access to System. Client agrees to provide Meinco access to the septic system as well as its parts and components.
6.	Services Provided. Meinco agrees to provide the following Service Work to the Client and the Service Site:	11.	<b>Termination by Client.</b> Client may terminate this contract by providing thirty (30) days written notice to Meinco.
	A) Maintenance requirements, including review of system components and their working condition, monitoring of solid levels to determine system efficiency, and periodic cleaning of system filters or media.	12.	Termination by Meinco. Notwithstanding, and in addition to, any other provision or term in this Contract, MEINCO MAY TERMINATE THIS CONTRACT AT ANY TIME AND WITHOUT PREVIOUS NOTICE TO CLIENT.
	This paragraph is inapplicable.      Necessary sampling and submission of paperwork every month(s) or as required to comply with the Arkansas Department of Health Onsite Maintenance Program.  Contact the paragraph of the paragraph of the paragraph of the paragraph of the paragraph.	13.	Solid Removal. Solid removal is not a covered service and shall incur an additional fee. If Meinco removes solids from the septic system, then it may charge to client the costs of solid removal. In any event, Meinco shall not be responsible for any damage or adverse effects for any delay in removing solids.
	C) Necessary paperwork every <u>6</u> month(s) as required to comply with the Arkansas Department of Health and/or the Arkansas Department of Environmental Quality.	14.	Indemnity. To the fullest extent permitted by law, Client shall indemnify, hold harmless, and defend Meinco and any agent or employees of Meinco from and against all injuries, claims, damages,
	D) I. This paragraph is inapplicable.  II. Sampling of discharge every 6 month(s) in coordination with a 3rd party laboratory for required laboratory tests.		losses, and expenses, including, but not limited to, attorneys' fees, arising directly or indirectly out of the obligations herein undertaken or resulting out of operations related to the Service Work or Service Site conducted by Meinco, Meinco's agents, anyone directly or indirectly employed by them or anyone for whose acts they may be
7.	Contract Duration. This contract shall be for a period of 24 month(s) from the date this Contract is executed by the parties on page 2		liable, regardless of whether or not such injury, claim damage, losses, or expenses is caused in part by a party indemnified. Such obligation shall not negate, abridge, or otherwise reduce the rights or obligations of indemnity which would otherwise exist to a party or
8.	Flow Requirements. This contract shall be null and void if septic system flow exceeds 500 gallons per day		person described in this paragraph.

- 15. Assignment. Client agrees that even though this is a contract for services, Meinco may assign this Contract to any third party without written notice to Client.
- Bilateral Contract. Meinco and client specifically agree that Client is seeking Meinco's promise to perform and not its performance.
- 17. Claims Against Meinco. Client shall give Meinco written notice of all claims within five (5) days of Client's knowledge of facts giving rise to the event for which claim is made. Otherwise, such claims shall be deemed waived by Client. All unresolved claims, disputes, and other matters in question between Meinco and Client shall be resolved in the manner provided for in this Agreement.
- 18. Rights Upon Breach. If Client breaches this Agreement with Meinco, Meinco may stop all work, including all Service Work. Additionally, Client will be liable to Meinco for consequential, incidental, and reliance damages as well as attorneys' fees and court costs. Such liability upon Client shall extend to petitions for and orders of contempt as well as any attempts by Meinco to collect upon any debt or damages owed to it by Client, including those entered by court of law or other dispute resolution proceeding.
- 19. Direct Discussion. If a dispute arises out of or relates to this Agreement, the Parties shall endeavor to settle the dispute through direct discussion before advancing to any dispute resolution proceeding.
- 20. Joint Drafting. The Parties expressly agree that this Agreement was jointly drafted and that this Agreement shall be construed neither against nor in favor of either Party. Instead, this Agreement shall be construed in a neutral manner.
- 21. Choice of Law. The Parties expressly agree that any dispute or claim filed or heard in any jurisdiction concerning or relating to this Agreement or worked performed as a result of this Agreement shall be governed by the laws of the State of Arkansas.
- 22. Forum Selection and Choice of Venue. The Parties expressly agree that any dispute or claim arising from, filed, or heard concerning or relating to this Agreement or work performed as a result of this Agreement shall be heard in Saline County, Arkansas, and no other forum. If this clause is penetrated and the hearing

- concerning the dispute removed to the United States federal court system, then the Parties expressly agree that the dispute shall be heard in the United States District Court for the Eastern District of Arkansas, Western Division, at the Richard Sheppard Arnold United States Courthouse in Little Rock, Arkansas.
- 23. Walver of Agreement Terms. Meinco, at its sole discretion and leisure, may walve any term in this Agreement. Such walver shall not, under any conditions or circumstances, constitute a modification of this Agreement. Additionally, such wavier shall not, under any conditions or circumstances, constitute a course of performance, course of dealings, or trade usage between Meinco and Client. Any waiver by Meinco shall be limited to a single incident or event. No waiver of any term of this Agreement is valid unless it is in writing, signed by Meinco, and attached to this Agreement as an addendum. It is the responsibility and duty of Client to draft any written waiver and to present it to Meinco for Meinco's approval and signature.
- 24. Force Majeure. Neither Party shall be in breach of its obligations under this Agreement (other than payment obligations) or incur any liability to the other Party for any losses or damages of any nature whatsoever incurred or suffered if and to the extent that the other party it is prevented from carrying out its obligations by, or such losses or damages are caused by, a force majeure event. For purposes of this paragraph, the failure of the state of Arkansas or the United States of America to act according to current practices, procedure, or law at the time of the making of this Contract shall be considered a force majeure event. Such event by the government shall be in addition to any current or commonly accepted definition of force majeure event.
- 25. Merger and Integration. Meinco and Client agree that this Agreement represents a full, final, and complete memorial of their Agreement for the Service Work and that this Agreement does not rely upon any term or promise not otherwise specified within the four corners of this Agreement.
- 26. No Oral Modification. Melnco and Client agree that this Agreement shall not be subject to oral modification. The Parties agree that any modification made or agreed to by the Parties shall be in writing, signed by both Parties, and attached to this Agreement as an Addendum.

By signing this Agreement below, I indicate that I have read this Agreement and its terms, consisting of two (2) pages, excluding any Addendum or Addenda, and that these express terms are both acceptable and agreeable to me. I further declare that these terms do not represent an undue hardship, are not illusory, and are not unconscionable as I have expressly bargained for these terms in consideration of entering into this Contract for the value specified in paragraph three (3).

Dela Nes	2/23/2022
Meinco Septic Systems, Inc.	Date
Client	Date



### Arkansas Department of Health

4815 West Markham, Slot 46 Little Rock, Arkansas 72205-3867

### MEMORANDUM OF AGREEMENT

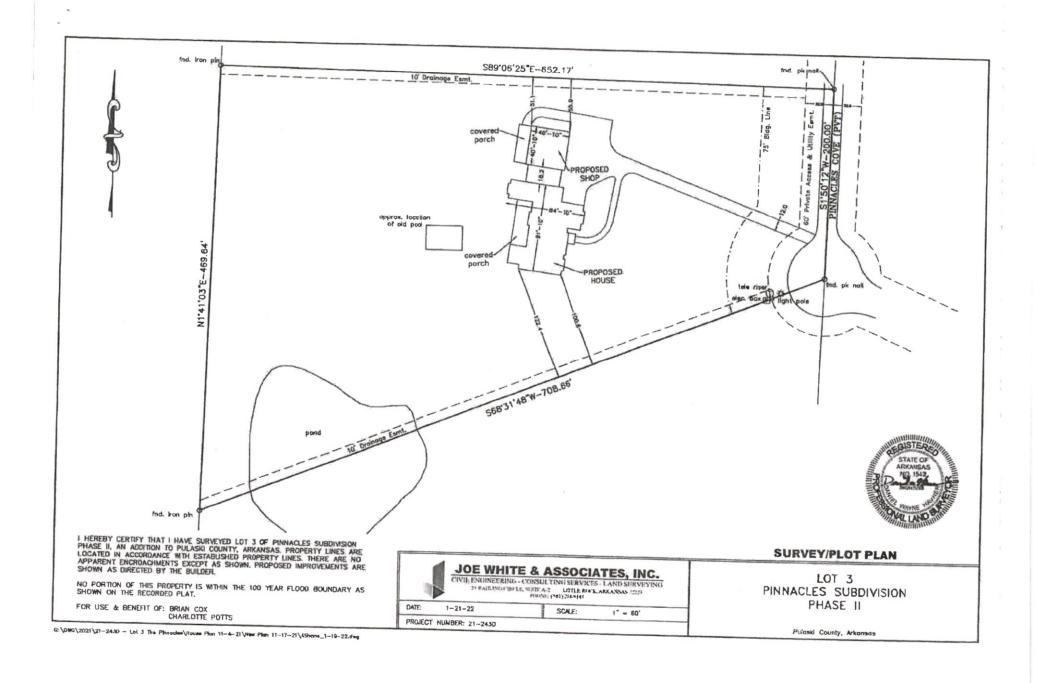
### SUBJECT: ONSITE WASTEWATER SYSTEM APPLICATION

This is an agreement that the onsite wastewater system installed on this property has been permitted under authority of Act 402 of 1977 and by the Arkansas Department of Health with the understanding that the following provisions are met:

- Onsite Wastewater Systems requiring a Monitoring Contract with a Certified Monitoring Personnel are Holding Tanks, Experimental Systems (i.e. Reduced Absorption Areas, \*ABGs), and Drip Dispersal Systems. \*Aerobic Biological Generators – Commercial applications only, residential applications must follow manufacturers' service contract requirements.
- 2. The property owner assumes all responsibility for the proper operation of the onsite wastewater system.
- The property owner must maintain a monitoring contract with a licensed Certified Monitoring Personnel for the life of the system and retain Onsite Wastewater System Assessments (EHP-71), on file, for at least five (5) years.
- 4. The Arkansas Department of Health has no responsibility in the operation and maintenance of such systems.
- 5. That the Arkansas Department of Health may monitor the system as to its operation capabilities.
- 6. That the Arkansas Department of Health is granted permission to make such inspections as deemed necessary.
- Subsurface systems with flows ≥3000 gpd and all surface discharging systems require the owner to file an additional permit application with the Arkansas Department of Environmental Quality (ADEQ).
- 8. That, on the sale of the property, the owner of the property must disclose to the perspective buyer notice of this agreement and any permit requirements. The buyer is to sign memoranda, contracts or permit name change forms and submit these documents to the appropriate regulatory agency.

SIGNED:	SIGNED:	
(Property Owner)		(Health Department)
DATE: 3 21 - 22	DATE:	

EHP-35 (R 1/13)



A North Little Rock Health Department, 2800 Willow St, North Little Rock, AR 72114

29 min , 20.8 miles Light traffic (Leave at 4:00 PM) Via I-40 W, AR-10

**B** 8021 Hood Rd, Roland, AR 72135, United States

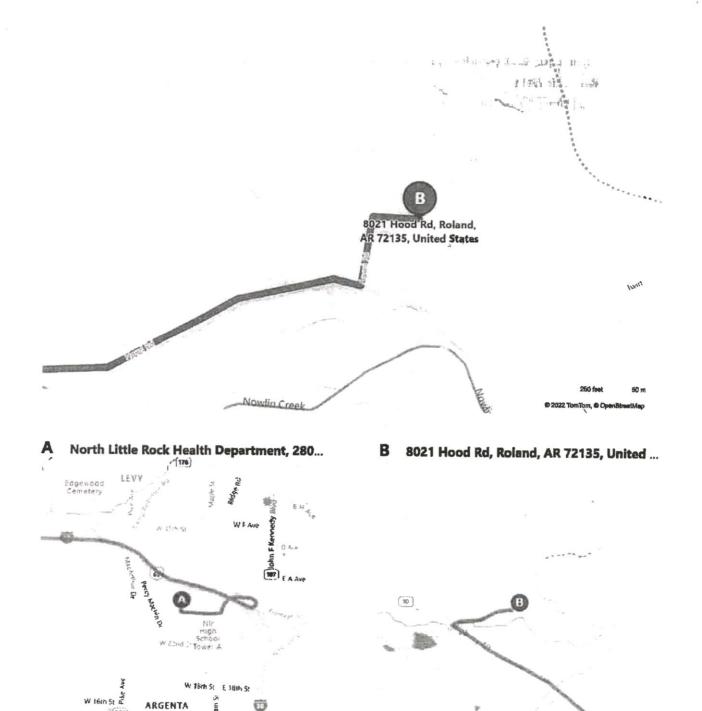
The Pinnacles Subdivision, Lot 3 9020 Pinnacles Road Roland, AR 72135 Gate Code: 0200

### A North Little Rock Health Department

1	1.	Depart and head south on Willow St	453 ft
4	2.	Turn left onto W Pershing Blvd	0.3 mi
4	3.	Turn left onto Main St	105 ft
<b>↑</b>	4.	Continue on AR-107 / Main St	0.1 mi
40		Take the ramp on the <b>right</b> for <b>I-40 West</b> and head toward <b>Fort</b> 5. Smith	5.2 mi
430		At Exit 147, head right on the ramp for 1-430 South toward  Texarkana	4.1 mi
10	7	At Exit 9, head on the ramp <b>right</b> and follow signs for <b>AR-10</b> * **Moderate Congestion*	10.4 mi, 16 min
<del> </del>	8.	Turn right onto Hood Rd	0.6 mi
	Product Transaction	Arrive at Hood Rd	1100

The last intersection before your destination is AR-10 / Highway 10
If you reach Twin Mountain Ln, you've gone too far

**B** 8021 Hood Rd, Roland, AR 72135, United States



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BE COUNTY