ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY NOTICE OF INTENT

INDIVIDUAL TREATMENT FACILITIES NPDES GENERAL PERMIT ARG550000

Application Type: New 🛛 Renewa	I (Permit # ARG55)	
I. PERMITTEE/OPERATOR INFORMATION		
A MARITITIZE OF ENGLOWING TOWNS TOWN		
Permittee (Legal Name): AF Partners, LLC	Operator	Type:
Permittee Mailing Address: 1511 North Reynolds Road	State	Partnership
Permittee City: Bryant	Federal	□ Corporation*
Permittee State: AR Zip: 72022		/Private
Permittee Telephone Number: 501-847-7964	*State of Incorporation	· :
Permittee Fax Number:	The legal name of the	Permittee must be
Permittee E-mail Address:		
1 of man Address.	Alkalisas Secretary of S	
II. INVOICE MAILING INFORMATION (Home owners are exempt	t.)	
Invoice Contact Person: Doug Hendrix	City: Bryant	
Invoice Mailing Company: AF Partners, LLC	State: AR	Zin: 72022
Invoice Mailing Address:1511 North Reynolds Road	Telephone: 501-847-796	
	7010phone	
III. FACILITY INFORMATION		,
Facility Name: Big Red #154 Facility Cont	to at Danier Danie III.	
	tact Person: Doug Hendrix	
	ne Number: 501-847-7964	
	State & Zip: Sheridan, AR 7	
Facility Latitude: 34 Deg 20 Min 35.10 Sec Facility Longity Datum	ude: 92 Deg 23 Mi	n 38.23 Sec
Accuracy: Method: : S	Scale: Descripti	on:
	•	
IV. DISCHARGE INFORMATION		
Outfall Number: 001	Flow: 900 gpd (Gallo	ons per Day)
Stream Segment: 2C Hydrologic Bas		
	de: 92 Deg 23 Min 39.	17 Sec
Accuracy: Method: : S	Scale: Descripti	on:
Type of Treatment: Bio Microbics Fast Unit, 4 Orenco AX20RT with U		
Receiving Stream: Ouachita River		
V. FACILITY PERMIT INFORMATION		
NPDES Individual Permit Number (If Applicable	e): <u>AR00</u>	
NPDES General Permit Number (If Applicable		
State Construction Permit Number	·····	
NPDES General Construction Stormwater Permit Number (If Applicable	er AKKIN '	

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

VI.	OTHER INFORMATION:	
	Operator Name:	David Meints
	Operator License Number:	
	•	
	Consultant Contact Name:	David Meints
		david@meincowastewater.com
	Consultant Address: _ Consultant Phone Number:	
	-	
		oved by AHD? Yes 🛛 No 🗌
	osure Statements:	
certifi statem withou	cation or operational authority is nent with their applications. The f ut one. You must submit a new	1-106 requires that all applicants for the issuance or transfer of any permit, license, sued by the Arkansas Department of Environmental Quality (ADEQ) file a disclosure filing of a disclosure statement is mandatory. No application can be considered complete disclosure statement even if you have one on file with the Department. The form may tap://www.adeq.state.ar.us/disclosure_stmt.pdf.
Re	(Initial) "I certify that the cogn representative under the understand that the Deg (Initial) "I certify under penalty supervision in accordate evaluate the information gathering the information and complete. I am average representation of the complete o	idility is a eerporation, it is registered with the Secretary of the State of Arkansas." izant official designated in this Application is qualified to act as a duly authorized the provisions of 40 CFR 122.22(b). If no cognizant official has been designated, I partment will accept reports signed only by the Applicant." of law that this document and all attachments were prepared under my direction or succe with a system designed to assure that qualified personnel properly gather and on submitted. Based on my inquiry of the person or persons directly responsible for on, the information submitted is, to the best of my knowledge and belief, true, accurate, ware that there are significant penalties for submitting false information, including the imprisonment for knowing violations." Doug Hendrix Title: Date: 1.2-2-20
	Cognizant Official Email: da	vid@meincowastewater.com
	PERMIT REQUIREMENT VE	RIFICATION fy completion of permit requirements. Yes No * If No is answered for any of the question's, then a permit can not be issued!
Sul	bmittal of Complete NOI?	
	bmittal of Required Permit Fee?	Check Number:
	bmittal of AHD Form EHP-19?	
	bmittal of Site Map?	
Sul	bmittal of Disclosure attement?	

WATER DIVISION

5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK, ARKANSAS 72118 PHONE 501-682-0623 / FAX 501-682-0880



Arkansas Department of Health Environmental Health Protection

Receipt Number 23220046

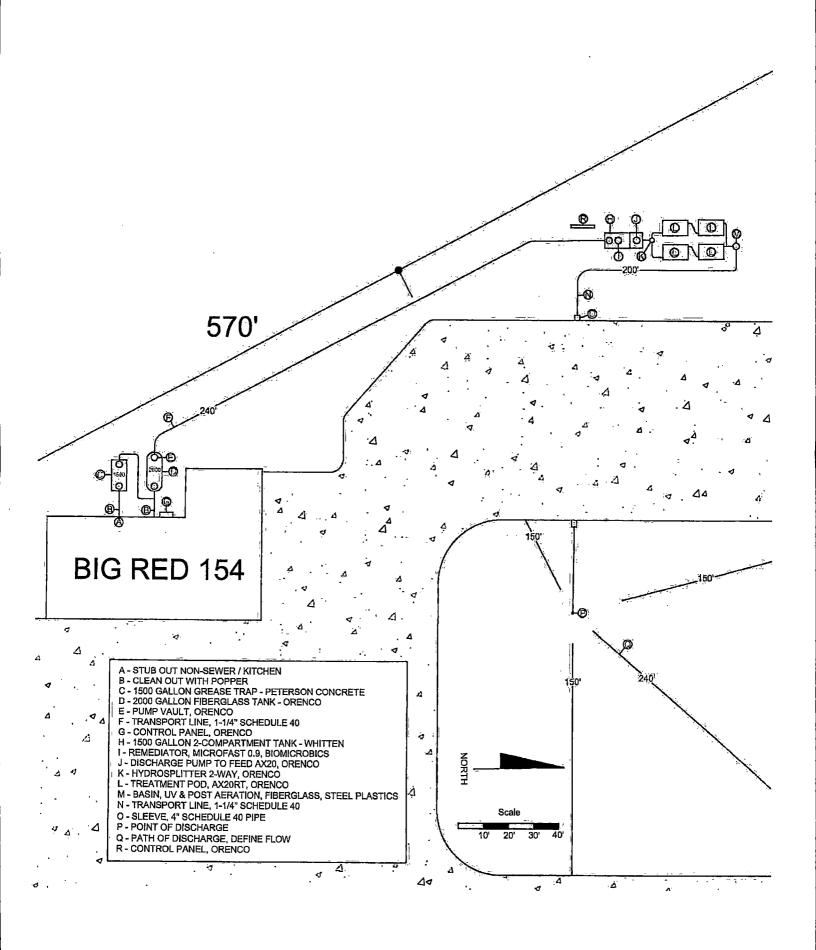
Individual Onsite Wastewater System Permit Application					Fee Schedule for Structures √						- V	
Pormit Tuno	mit Type					ucture	s 1500 s	sq ft or less			\$ 30.00	
Permit Type								than 1500 sq ft and u	p to 200	00 sq ft	\$ 45.00	
		Alteration / Rep	air		Str	ucture	s more t	than 2000 sq ft and u	p to 300	00 sq ft	\$ 90.00	
DR Environmental ID	#					Structures more than 3000 sq ft and up to 400			00 sq ft	\$120,00		
7 6 0 1	0 5 5	5 4 7			1	,		than 4000 sq ft			\$150.00	<u></u>
<u> </u>		ls			Alte	eration	and Re	epair			\$ 30.00	
Part 1 Applicatio ☐ STD = Standard Sep		eatment Type (che			E ern -	Ptone	Jard Abr	Disposal Metho sorption Field	d (che	eck one): = Low Pressure	Di-t-ilti-	<u> </u>
ISF = Intermittent Sa	nd Filter	RSF = Re-circulating	Sand Filte	ər	☑ SUR =	Surfa	ace Disc	harge i	HLD	= Holding Tank		'n
☑ PMF = Proprietary M ☐ OTH = Other (Descri	edia Filter <u>L</u> be) [☐ RGF = Re-circulating ☐ HLD = Holding Tank	Gravel Fil		□ CPF = □ OTH =			<u>[</u>	_ SRL∶ _ DRP	= Serial Distribi = Drip Imigation	ition 1	
	1. Owner's/Applicant's Name AF Partners, LLC (Big Red, Store 154) C/o David Hendrix (501) 847-7964											
3. Mailing Address								4. County	•	- ·		<u>. </u>
		vant, AR 72022	. 14171	4 1.				Grant				
5. Address of Propos		i a 911 address is n WY 167, Sheridar			sch detal	led d	irection	is or map)				
Subdivision Name		VVI 107, Oriendar	7. App		ate	Т	8. Dat	te Recorded		9. Lot Numi	per	
n/a			n/a	ı		1	n/a	a		n/a		
10. Lot Dimensions 345' x 580' x 12	3' x 560'		11. Tol		(Acres)			Bedrooms #Peopommercial	le	13. Daily Fl	w (GPD)	
14. Brief Legal Descri			ate sheet	t of pap		cessa				000		
		uth, Range 13 We	st, Gran							.*	·	
15. Water Supply (Sp Sheridan Public		r, if Public Water)			16. GPS BLG 34			=	א חר	4.34396, -92	30430	
	ļ	18 0 0			DLO 0-	7.070	702, -3	2.03447 1,,0	J.D. 0-	4.04090, -02		
17. Loading Rates	(gpd/ft²) n/a	18. System Speci	- 1	2000	1		1				<u> </u>	
Primary Area		a. Size of Septic T		2000	500	gal	f. 7	French Depth	n/a		inches	
Secondary Area	n/a	b. Size of Dose Ta	nk	1000/	500	gai	g. 7	Trench Spacing n/a			feet	
Percolation Test	(min/in)	c. Absorption Area		n/a		ft2	h. 7	<u> French Media (List</u>	Below)	i.Trenc	n Width
Primary Area Avg	n/a	d. Number of Field	Lines	n/a				n/a			n/a	_ In
Secondary Area	n/a	e. Length of Field	Lines	n/a		ft		n/a		<u></u>	n/a	<u>ln</u>
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 was lewater system in this permit application, is accurate. I have reviewed the permit application and understand the layout, installation, maintenance, operation and expenses (s) that may be associated with this system.												
Owner/Applicant Signa	ature	May 1	1/1/2	J.	<u>/</u>	,		Date _	_//	1-14-19	?	
20. I certify that I have Arkansas Departr	e conducted nent of Healt	the above tests and h Rules and Regula	that the	above taining	listed int	forma e Wa	ation is	in accordance with er Systems.	the la	test requirem	ents of the	e
Designated Representative Soil Certified ☑ Yes □ N] No							
Designa	Designated Representative Signature Title											
David A. Mei						11/1	2/2019		50	1-821-3837		-0837
Health Rules and	n Authority nd specifications Regulations I	nt Name on's in the application certaining To Onsite cistist Signature	n has bee Wastew	en revie rater Sy	ewed and	d four	RMITE 33	FOR CONSTRUCT	nts of t	he Arkansas hereby issue 1-27-/	ed. 9	ent of
CIMI	Printerius SDB	etoupa di Rii Hiri G					EHS	Number		Date		!

EI/P-19 (R 8/13) Page 1

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Continue Part 1	· 15°			Taran a di di	4h- 4- 14	if also as and in the	oil (denier -t-	iriah	0)
, 22. Soil Criter			·	·		if observed in the s			
a. Bedrock	b. BSW	Т	c. MSWT	d, LSWT	e. Adj. MSW		g. H.C./D	epth	h. Loading Rate (gpd/if²).
>48"	n/a	ا مال	Surface	n/a	n/a	n/a if observed in the	n/a	inches)	Unsuitable
23. Soil Criter				-				_!	h Londing Date (and/#2)
a. Bedrock	b. BSW	1	c. MSWT	d. LSWT	e. Adj. MSW		g. H.C./D	epth	h. Loading Rate (gpd/ft²)
>48"	n/a Water T	ahio /	Surface SWT) Classes D	n/a	_n/a	n/a	n/a		Unsuitable
Primar		ante (c	Jivij Olasses L		Redoximorphi	c Features and/or	Clay Content Re	strictio	ภักร
Brief	<i>.</i>	in	n/a				, , , , ,		
Moderate		in		oted on less the	an 50% of ne	d surface or inter	ior Depletion	<= ch	roma 2
Long		in		0167 011 1692 [1]	211 00 70 UI PE	a surface of lifter	ioi. Depiction	1	TOTAL A.
Seconda	arv Area		n/a	l i d	Redoximorobi	c Features and/or (Clay Content Re	strictio	ns
Brief		<u>în</u>			1,,200,,1110,1411				
			n/a		F00/ 5			<u> </u>	
Moderate		'în	· · · · · · · · · · · · · · · · · · ·	oted on less tha	an 50% of pe	d surface or inter	ior. Depletion	<= ch	roma 2.
Long		in	n/a					·	
Comments		Unit)), (4) Orenco A	X20RT Units.	and sample I	septic tank, 1000, pasin with UV Dis ate approved, a re	sinfection NPI	DES F	Biomicrobics 0.9 Fast Permit required. be required.
Dort 3 Inc.	tallation	مخدا	rication						
	Part 2 Installation Inspection Septic tank manufacturer Pump information							····	
Septic tank m	aterial			a - 1940		Trench media and	d width		
Dose tank ma	nufacture	er				Depth of intercept	tor drain	!	
Dose tank ma	terial					Depth of settled fi	N.		
Name of Insta	ller								License Number
3 									
Installation Installation Installation			□ Environm tem Installation Ve	ental Health Specenfication below)	cialist o	Designated Repre	sentative		
								İ	
			nature			EHS/	License Number	 	Date
System Install	lation Ver	ification	on is designed and	in compliance wi	th all Rules an	d Regulations Pert	aining to Onsite	∖Vaste	water Systems.
, masc morallo	- a 110 0 y c	u	200191100 0110				3		,
								 	
I		Install	er Signature			Licens	se Number		Date
Part 3 Per	mit for	Oper	ation				1711-117-11	le 41= *	Adamaga Denorther of
The information Health. THE	The information contained in Part 1 and 2 of this form has been reviewed and found to meet the requirements of the Arkansas Department of Health. THE PERMIT FOR OPERATION of this system is hereby issued.								
		,,,	<u>_</u>		-,				•
Environmenta	l Health S	Specia	alist					<u> </u>	
Comments				Signature		_ EHS N	lumber		Date
Comments								! ! !	
Site Revalidat	ion condi	ucted	by	□ Environmental	Health Specia	list	□ Designated	Repre	esentative
(check one)			•		•			! 	
			0			- FUE /11	anno Numbor	<u> </u>	Date
			Signature			EHS / Lic	ense Number		

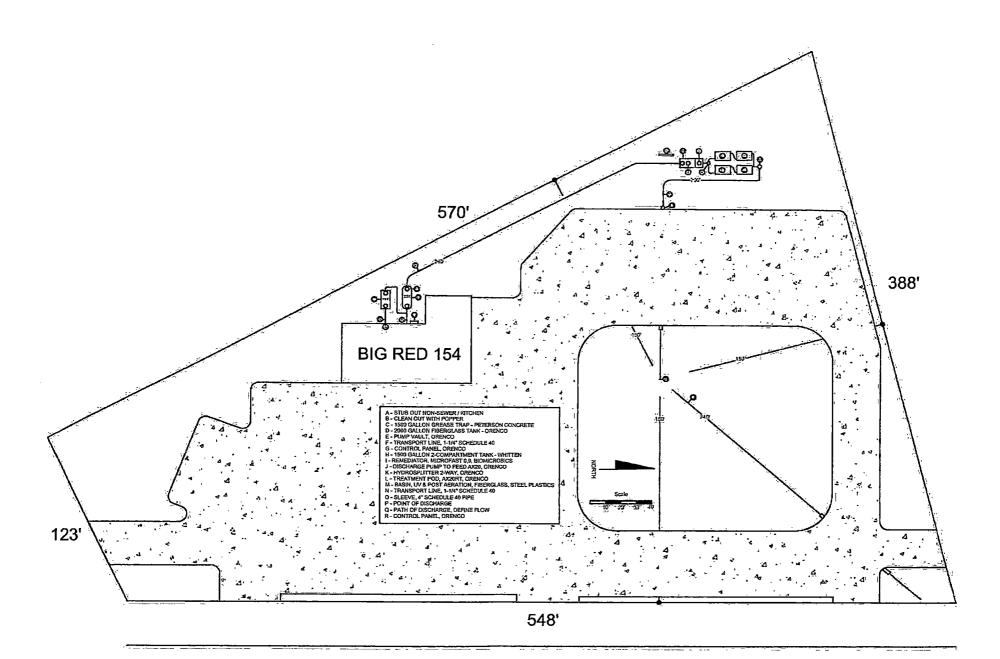
Individual Onsite Wastewater System Permit Application

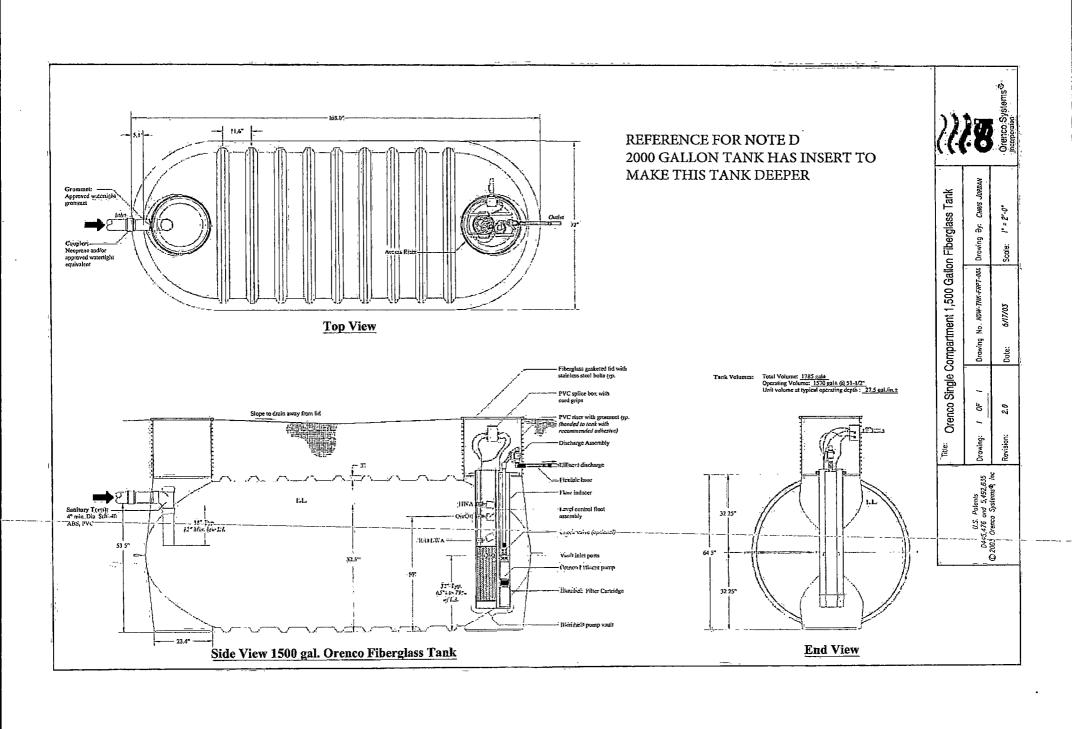
Receipt Number



1 Δ A - STUB OUT NON-SEWER / KITCHEN **B-CLEAN OUT WITH POPPER** C - 1500 GALLON GREASE TRAP - PETERSON CONCRETE Δ D - 2000 GALLON FIBERGLASS TANK - ORENCO E - PUMP VAULT, ORENCO F - TRANSPORT LINE, 1-1/4" SCHEDULE 40 G - CONTROL PANEL, ORENCO 1 H - 1500 GALLON 2-COMPARTMENT TANK - WHITTEN ĿΔ I - REMEDIATOR, MICROFAST 0.9, BIOMICROBICS J - DISCHARGE PUMP TO FEED AX20, ORENCO K - HYDROSPLITTER 2-WAY, ORENCO L - TREATMENT POD, AX20RT, ORENCO M - BASIN, UV & POST AERATION, FIBERGLASS, STEEL PLASTICS N - TRANSPORT LINE, 1-1/4" SCHEDULE 40 O - SLEEVE, 4" SCHEDULE 40 PIPE P - POINT OF DISCHARGE Δ Q - PATH OF DISCHARGE, DEFINE FLOW R - CONTROL PANEL, ORENCO 4

10



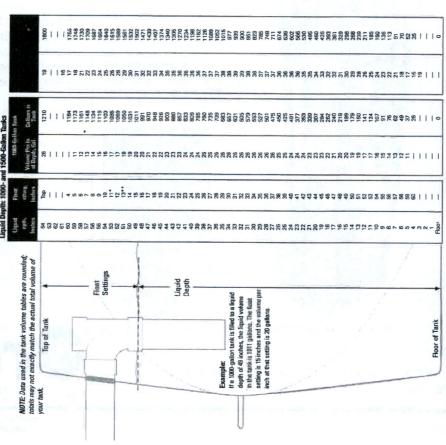


Orenco | General Onsite Wastewater Products Catalog

Fiberglass Tanks

Fiberglass Tank Volume per Unit of Liquid Depth: 1000-, 1500- and 2000-Gallon Tanks

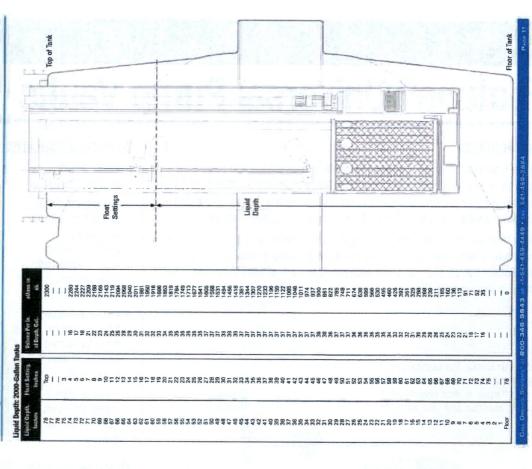
These tables show the relationship between tank volume, the final setting elevation, and the figuid depth of the tank. The float setting is measured from the top of the tank to the tank. The float setting is measured from the liquid surface to the floor of the tank.



* The invert of inter is oppicably set 11 inchas down from the top of the tank, or in accordance with provailing state or heaf regulations.
** For gravity discharge applications, the trivert of the codder is spicially located 18 inches down from the top of the tank.

General Onsite Wastewater Products Catalog | Orenco

Fiberglass Tanks



Biotube® Universal Pump Vaults

Applications

Orenco's patented* Biotube® Universal Pump Vaults filter effluent and pump from septic tanks or dosing tanks to drainfields, advanced treatment, or effluent collection systems. The filter prevents large solids from leaving the tank, dramatically improving wastewater quality and extending the life of downstream treatment systems.

Each Universal Pump Vault comes with a Biotube filter cartridge, a float stem bracket, and support pipes. It can accommodate either one (simplex) or two (duplex) High Head Effluent Pumps, their discharge assemblies, and a float switch assembly, all of which are ordered separately.



Standard Features & Benefits

- · Installs quickly in new or existing tanks
- Easy access design allows filter cartridge removal without pulling the pump or vault; simplifies filter inspection and maintenance
- Patented Biotube filter has several times the filtering capacity of other pump vaults
- · Removes approximately two-thirds of suspended solids, on average

- Accommodates simplex or duplex configuration, for use with one or two pumps
- · Float stem bracket allows easy removal and adjustment of float assembly
- · Sturdy, molded polyethylene and corrosion-proof construction ensure long life

Biotube Filtering Process

Effluent from the relatively clear zone of the septic tank, between the scum and sludge layers, enters the Biotube Universal Pump Vault through inlet holes in the housing. Effluent

then flows between the Biotubes, utilizing the Biotubes' entire surface for filtering. Particles larger than the Biotube's mesh are prevented from leaving the tank.

To Order

Call your nearest Orenco Systems®, Inc. Distributor. For nearest Distributor, call Orenco at 800-348-9843, or visit www.orenco.com and click on "Where to Buy."

*Covered by patent numbers 5,492,635 and 4,439,323



Model Code for Ordering

Biotube® Universal Pump Vault

NOTE F

Support pipe length:

Blank = standard support pipes for 24" riser

L = long support pipes for 30" riser

NB = no bracket (for support pipe)

Inlet hole height: 13", 19", 25", custom (specify)

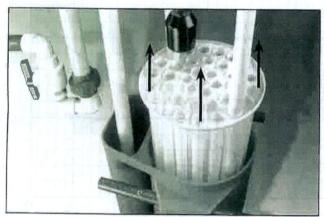
Cartridge height: 18", 24", 36"

Vault height: 48", 57", 68", 72", 78", 84", 95", custom (specify)

Universal pump vault (for simplex and duplex applications)

PVU 68 24 13 - VERIFY WITH DISTRIBUTOR

Orenco's Biotube Pump Vault is available in standard and customized configurations. Contact Orenco or your nearest distributor for sizing recommendations.

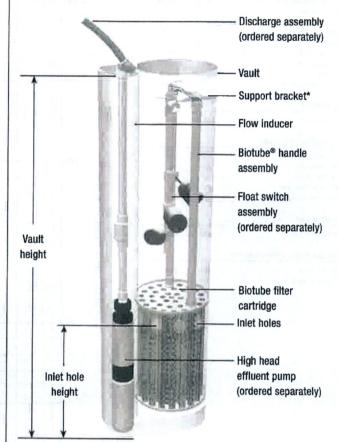


Easy access design allows filter cartridge removal without pulling the pump or vault, simplifies filter inspection and maintenance.

Biotube Cartridge Effective Filter and Flow Area

Cartridge Height	Filter Area	Flow Area
18 in. (457 mm)	14.5 ft ² (1.3 m ²)	4.4 ft ² (0.4 m ²)
24 in. (610 mm)	19.7 ft ² (1.8 m ²)	5.9 ft ² (0.5 m ²)
36 in. (914 mm)	30.0 ft ² (2.8 m ²)	9.0 ft ² (0.8 m ²)

Biotube Universal Pump Vault Components



* The distance between the top of the vault and the bottom of the support bracket is 3 inches (76 mm), so the vault extends that far above the opening on which the support pipes rest.

Tank Access and Riser Diameter

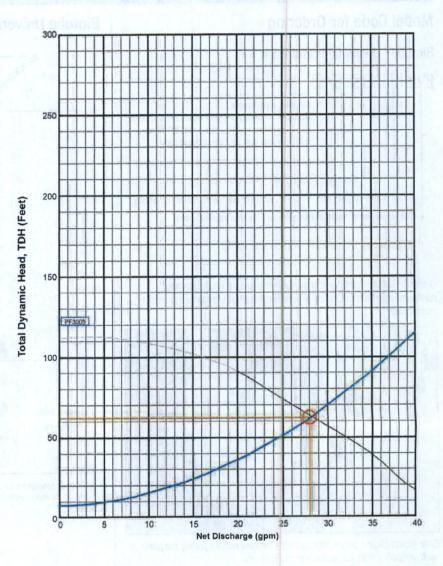
Biotube Application	Minimum Tank Access Diameter	Recommended Tank Access Diameter	Minimum Riser Diameter
PVU with Simplex Pump	19 in. (483 mm)	20 in. (508 mm)	24 in. (610 mm)
PVU with Duplex Pumps	19 in. (483 mm)	20 in. (508 mm)	30 in. (762 mm)
PVU with Recirculating Splitter Valve* * RSV20 or RSV30 for Advantage Treatment Systems	23 in. (584 mm)	23 in. (584 mm)	30 in. (762 mm)**

^{**24-}in. riser can be used with no-bracket (NB) PVU.

Pump Selection for a Non-Pressurized System - Commerical Project

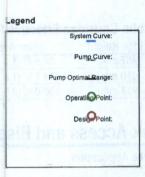
Big Red 154 / E - Pump Vault

Parameters	Mars 1	HOLLIS.
Discharge Assembly Size	1,25	inches
Transport Length	240	feet
Transport Pipe Class	40	
Transport Line Size	1.25	inches
Distributing Valve Model	None	
Max Elevation Lift	8	feet
Design Flow Rate	28	gpm
Flow Meter	None	inches
'Add-on' Friction Losses	25	feet
Calculations		
Transport Velocity	6.0	fps
Frictional Head Losses		
Loss through Discharge	5.5	feet
Loss in Transport	23.4	feet
Loss through Valve	0.0	feet
Loss through Flowmeter	0.0	feet
'Add-on' Friction Losses	25.0	feet
Pipe Volumes		
Vol of Transport Line	18.6	gals
Minimum Pump Requirements		
Design Flow Rate	28.0	gpm
Total Dynamic Head	61.9	feet

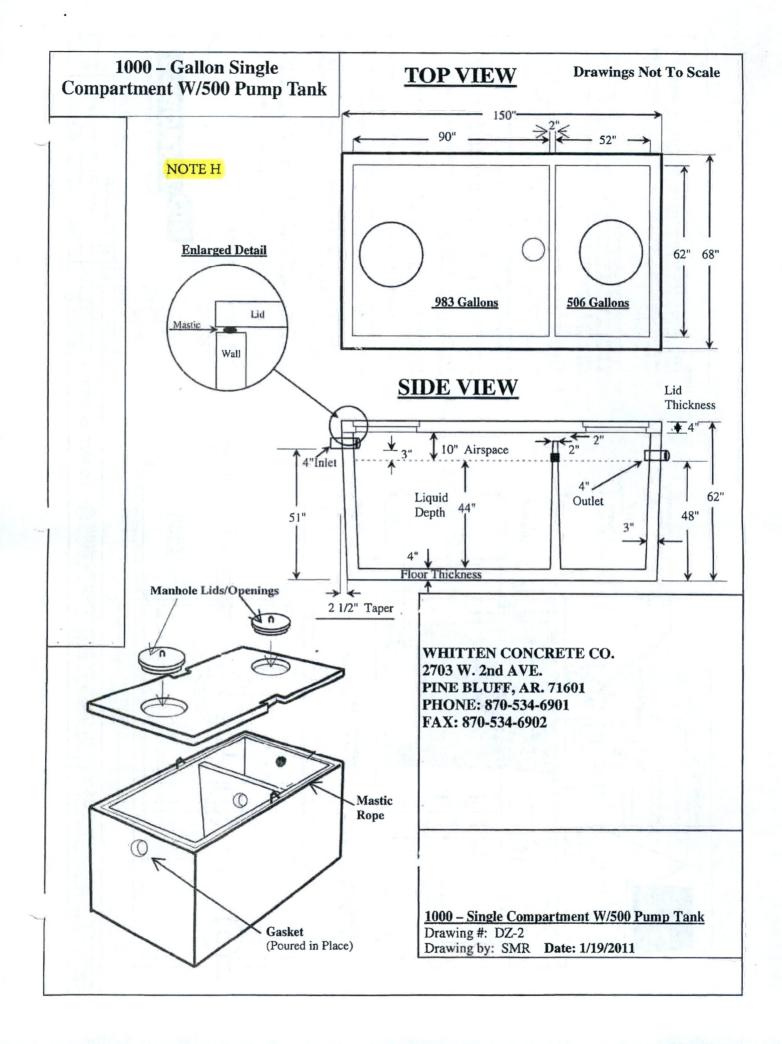


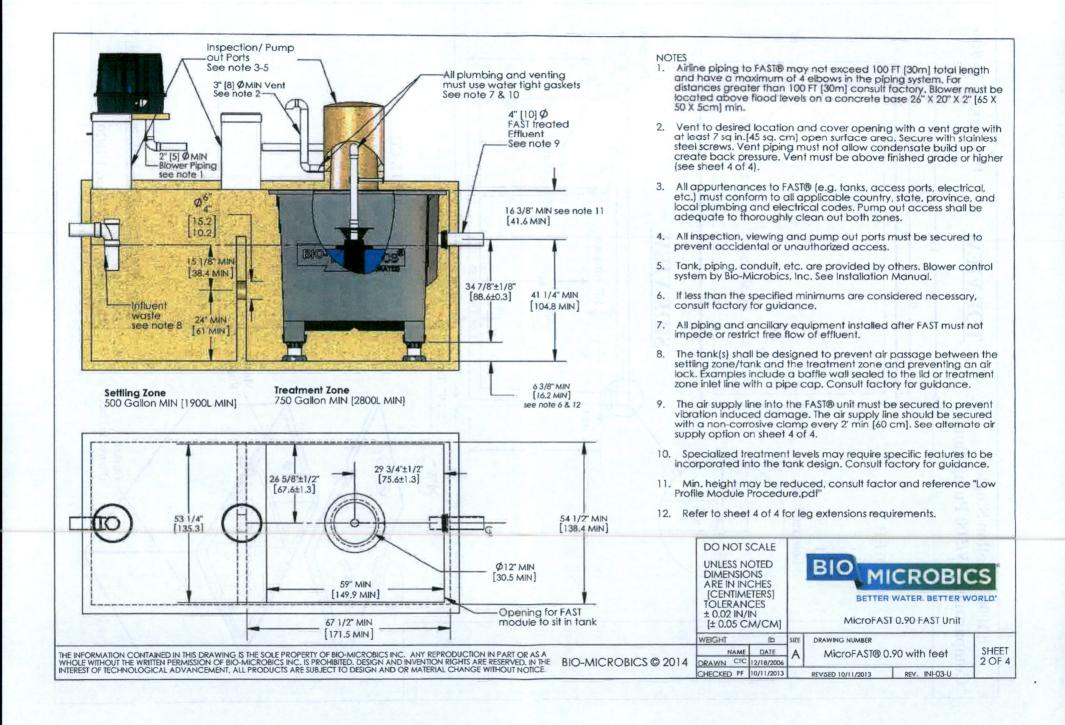
PumpData

PF3005 High Head Effluent Pump 30 GPM, 1/2HP 115/230V 1Ø 60Hz, 200V 3Ø 60Hz









Specifications for MicroFAST 0.90 Wastewater Treatment System

The contractor shall furnish and install (1) MicroFAST®0.90 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 FAST® system insert, leg extensions, or lid, blower assembly, blower controls and alarms. All other items will be provided by others. The MicroFAST 0.90 unit shall be situated within a 750 Gallon[2800L] minimum compartment as shown on the drawings. Suggested maximum settling zone is (1X) 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 tank and FAST system suppliers as well as the installation of the FAST unit, and delivery to the job site.

2. OPERATING CONDITIONS

The MicroFAST 0.90 treatment system shall be capable of treating the wastewater produced by typical family activities (bath, laundry, kitchen, etc.) ranging from (1) one to (11) eleven persons and not to exceed 900 US Gallons per day (3400LPD) 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

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 0.90 unit shall come equipped with a regenerative type blower capable of delivering 17-25 CFM [31-46m3/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.

5. REMOTE MOUNTED BLOWER

The blower must not set in standing water and its elevation must be higher than the normal flood level. A two-piece, 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.

7. CONTROLS

The control panel provides power to the blower with 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 silence button is included.

8. INSTALLATION AND OPERATING INSTRUCTIONS

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SO WHOLE WITHOUT THE WRITTEN PERMISSION OF BIO-MICROB

INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODU

All work must be done in accordance with local codes and regulations. Installation of the FAST 0.90 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.

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 apm (19 Lpm) with a maximum hourly flow not to exceed 10% of the design daily flow (90 gph (340 LPH)).

10.WARRANTS
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 one subject to the following sterms and conditions below: During 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 installated and is obeing operated and mointained in one of the perform as specified when operating at design conditions provided by Bio-Microbics, inc., will repair or replace at its discretion such defective parts free of charge. Defective parts must be returned by owner to Bio-Microbics, inc.)'s factory postage paid, if so requested. The cost of labor and all other expenses resulting from replacement of the defective parts and from installation of parts furnished under this warranty and regular maintenance flems such as

components that have been disassembled by unauthorized persons, improperly installed or damaged due to altered or improper wiring 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-Nilarabias, inc. reserves the right to review, change or modify the construction and/or design of the Structure witing, plumbing, drainage, septic tank or disposal systems. Bio-Nilarabias, inc. reserves the right to review change or modifications in present equipment. Bio-Nilarabias, line, is not responsible for consequential armages or modifications in present equipment. Bio-Nilarabias, line, is not responsible for consequential armages or modifications in present equipment. Bio-Nilarabias, line, is not responsible for consequential armages of any nature resulting from such things as, but not limited to, defect in design, material, or workmanship, 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 FITNESS FOR A PARTICULAR PURPOSE.

NO REPRESENTATIVE OR PERSON IS AUTHORIZED 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



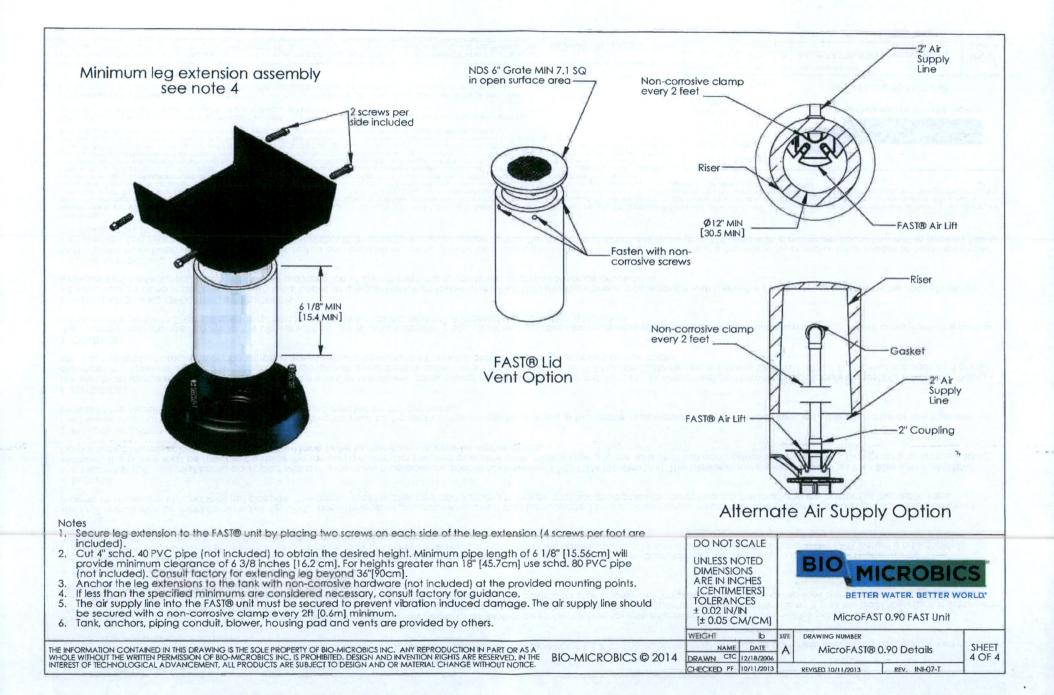
SHEET

3 OF 4

MicroFAST 0.90 FAST Unit [± 0.05 CM/CM]

DLE PROPERTY OF BIO-MICROBICS INC. ANY REPRODUCTION IN PART OR AS A BICS INC. IS PROHIBITED, DESIGN AND INVENTION RIGHTS ARE RESERVED. IN THE UCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.	В
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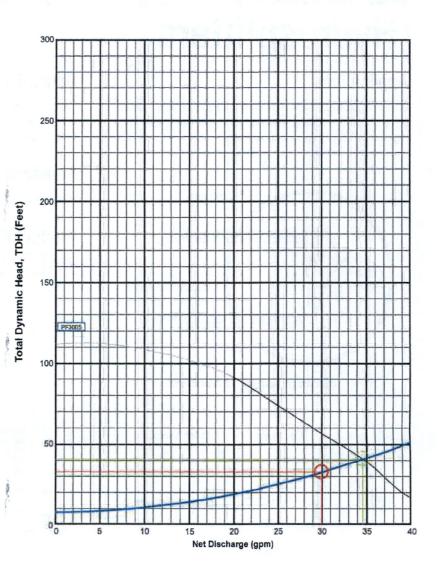
WEIGHT	lb	SIZE	DRAWING NUMBER	
NAME	DATE	اما	MicroFAST® 0.9	O Specifications
DRAWN CTC	12/18/2006		74110101713100.7	o specifications
CHECKED PF	10/11/2013		REVISED 10/11/2013	REV_ INI-07-T



Pump Selection for a Non-Pressurized System - Commerical Project

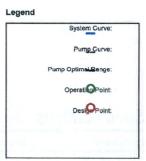
Big Red 154 / J - Discharge Pump

Parameters		
Discharge Assembly Size	1.25	inches
Transport Length	20	feet
Transport Pipe Class	40	
Transport Line Size	1.00	inches
Distributing Valve Model	None	
Max Elevation Lift	8	feet
Design Flow Rate	30	gpm
Flow Meter	None	inches
'Add-on' Friction Losses	10	feet
Calculations	(400 E) 6	
Transport Velocity	11.2	fps
Frictional Head Losses		
Loss through Discharge	6.3	feet
Loss in Transport	8.4	feet
Loss through Valve	0.0	feet
Loss through Flowmeter	0.0	feet
'Add-on' Friction Losses	10.0	feat
Pipe Volumes		
Vol of Transport Line	0.9	gals
Minimum Pump Requirements	_	
Design Flow Rate	30.0	gpm
Total Dynamic Head	32.7	foot



PumpData

PF3005 High Head Effluent Pump 30 GPM, 1/2HP 115/230V 1/2 60Hz, 200V 3/2 50Hz

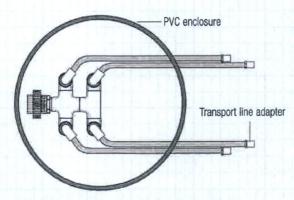




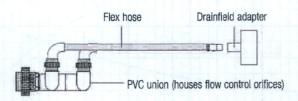
Hydrosplitters

Applications

Orenco® Hydrosplitters are used when dosing screened effluent by pump or siphon to achieve proper distribution of flow to each lateral, regardless of length, in gravity drainfields.



Top View (shown with PVC enclosure)



Side View

General

Orenco Hydrosplitters are fabricated with PVC components. Each hydrosplitter is designed to meet specific needs of a particular drainfield.

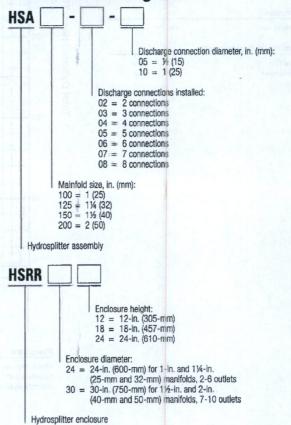
Order PVC enclosure and fiberglass IId separately.

Standard Models

NOTE K - HSA 100 02 05

Hydrosplitters are built to specification.

Product Code Diagrams

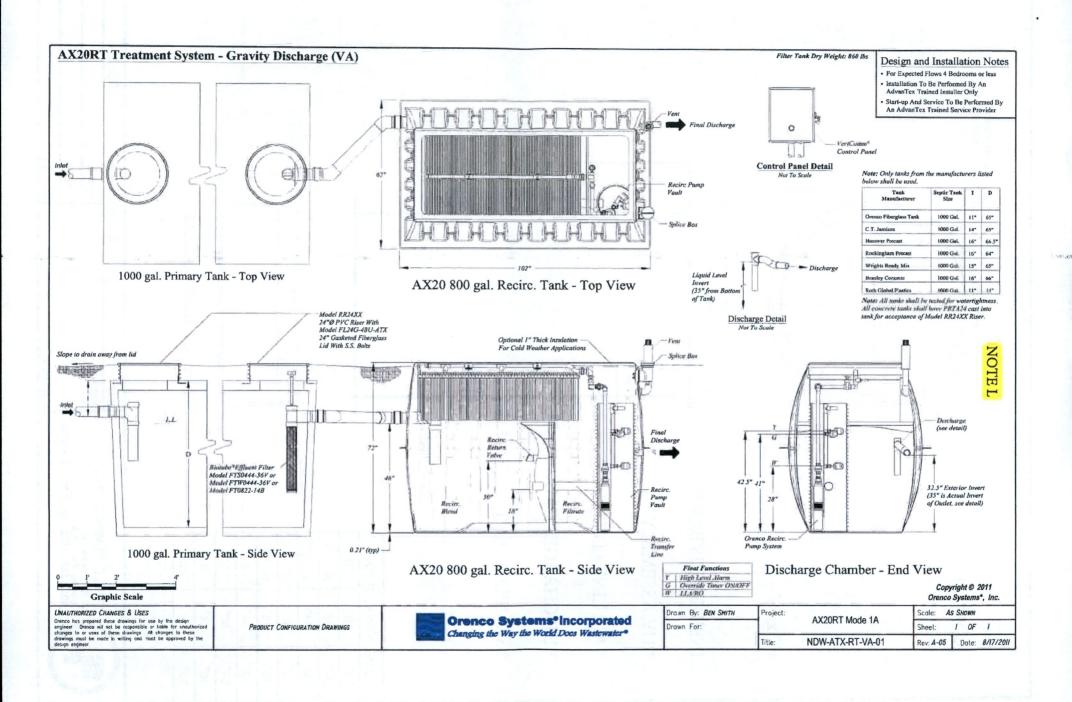


Specifications

Component	Size	Sizes available, nominal in.							
PVC fittings	1/2	3/4	1	11/4	11/2	2	3	4	
Unions	1/2	3/4	1	11/4	11/2	2	3	4	
Flexible hose	1/2	3/4	1	11/4	n/a	2	n/a	n/a	
Flow controllers	1/2	3/4	1	11/4	11/2	2	3	4	

Materials of Construction

PVC fittings	PVC Sch.	40
Unions	PVC Sch.	80
Flexible hose	PVC	
Flow controllers	PVC Sch.	80, 1/8-inch thick (3mm)



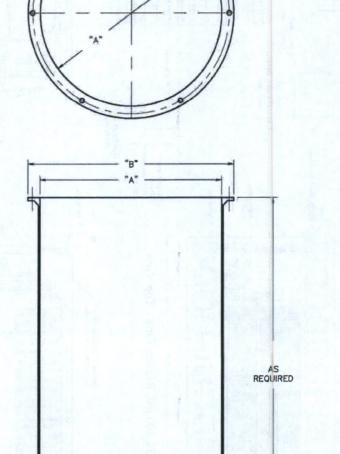
NOTE M

30" x 78"

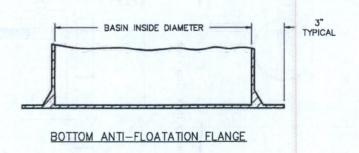
INSIDE THIS BASIN

- * UV ASSEMBLY
- * AIR LINE / DIFFUSER
- * DISCHARGE PUMP
- * SAMPLE POINT

DIMENSIONAL DATA			
"A"	"B"	"D"	
24"	28"	26 1/2"	
30"	34"	32 1/2"	
36"	40"	38 1/2"	
42"	48"	44 1/2"	
48"	54"	51"	
54"	60"	57"	
60"	66"	63"	
72"	78"	75"	



(6) 3/8"-16 TAPPED S.S. INSERTS ON "D" BOLT CIRCLE





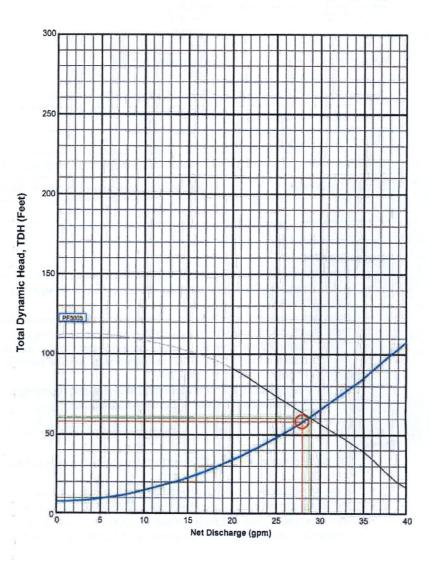
STEELE PLASTICS, INC. 1280 Sturgis Rd. Conway, AR 72033 (501) 327-5122 Fax (501) 327-0807

			_
TITLE	FIBERGLASS ST	RAIGHT WALL BASIN	
PROJECT		JOB NO.	
		P.O. NO.	
CUSTOMER		DWG NO. 404S	1

Pump Selection for a Non-Pressurized System - Commercial Project

Big Red 154 / M - Discharge Pump

Discharge Assembly Size	1.25	Inches
Transport Length	200	feet
Transport Pipe Class	40	
Transport Line Size	1,25	inches
Distributing Valve Model	None	
Max Elevation Lift	8	feet
Design Flow Rate	28	gpm
Flow Meter	None	inches
'Add-on' Friction Losses	25	feet
Calculations		
Transport Velocity	6,0	fps
	5.5	feet
Loss through Discharge	5.5 19.5	feet feet
Frictional Head Losses Loss through Discharge Loss in Transport Loss through Valve		
Loss through Discharge Loss in Transport	19.5	feet
Loss through Discharge Loss in Transport Loss through Valve	19.5 0.0	feet feet
Loss through Discharge Loss in Transport Loss through Valve Loss through Flowmeter Add-on' Friction Losses	19.5 0.0 0.0	feet feet
Loss through Discharge Loss in Transport Loss through Valve Loss through Flowmeter	19.5 0.0 0.0	feet feet
Loss through Discharge Loss in Transport Loss through Valve Loss through Flowmeter Addi-on' Friction Losses	19.5 0.0 0.0 25.0	feet feet feet feet
Loss through Discharge Loss in Transport Loss through Valve Loss through Flowmeter 'Add-on' Friction Losses Pipe Volumes Vol of Transport Line	19.5 0.0 0.0 25.0	feet feet feet feet



PumpData

PF3005 High Head Effluent Pump 30 GPM, 1/2HP 115/230V 1Ø 60Hz, 200V 3Ø 60Hz

Legend

System Curve:

Pump Curve:

Pump Optimal Bange:

Operation Point:

Design Point:





7915 Hyw 300 Roland, AR 72135 Office: 501-888-0500

Fax: 501-888-0501

Maintenance Provider: New Water Systems, LLC

System Owner	AF Partners LLC (Big Red Store #154)
Owner Billing Address	
Owner Phone & Email	
System Address	Corner of Clark Trail and Hwy 167, Sheridan, AR 72150
System Description	Orenco Systems, Inc. AdvanTex Treatment Systems AX25RTs, AX20RTUV, FAS

Services Provided

- Complete sampling and testing of effluent as required by the NPDES permit.
- Act as Cognizant Official for purpose of completing Discharge Monitoring Reports and serving as Class 3 Operator.
- Complete preventative maintenance as required and recommended by the manufacturer. Provide Field Monitoring Reports to the owner & manufacturer as required.
 - Including monthly site visits to perform preventative maintenance such as cleaning effluent filters, adding chlorine and sodium bicarbonate as needed, verifying good physical condition of the plant and its operation.
 - Also includes monthly sampling, analysis, and reporting as required by the Arkansas Department of Environmental Quality.

Terms

- This agreement is good for 12 months from the system startup date or the beginning date of this
 contract.
- Contract will renew remain active on a month-to-month basis.
- The contract may be canceled by either party with 30 days prior written notice.
- Service will be provided during normal workday hours and during weekdays excluding holidays according to routine schedule as determined by the service provider.

Fees

- Service Agreement Fee = XX per month.
- Invoices are issued on or about the 1st of each month and are due on the 15th of the same month.
- Additional fees may apply if the system is tampered with or modified by unauthorized personnel.

Owner Responsibilities

- Allow the maintenance provider or their representative access to all parts of the system.
- Keep area around system components clear and free of obstructions including landscaping and grass.
- Refrain from tampering with system components or making any modifications to the system.
- Read and follow guidelines as supplied by the manufacturer or operator.



7915 Hyw 300 Roland, AR 72135 Office: 501-888-0500 Fax: 501-888-0501

Exclusions

- Replacement parts and labor are not included.
- Solids removal will be required at some interval and are not included in this agreement.
- Cutting, spraying, removing weeds, and mowing around the treatment plant are not included in this
 agreement.
- This agreement does not constitute a warranty of system performance and effluent quality
 as there are numerous factors beyond the control of the operator which can affect the
 outcome and performance of any wastewater system.
- Emergency site visits performed in addition to regularly scheduled maintenance will be billed as time and expenses.

dishC never b	1 11	an Jest, got	on The technique
Owner Signature	Hory Mash	Date	11-14-19
Startup or Beginning Date		isteya nonc	to e menostreat
Service Provider Signature	And Foris	Date	the controdes



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.
- The Arkansas Department of Health has no responsibility in the operation and maintenance of such systems.
- 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.
- 7. 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:	Novy Myly	SIGNED:	(Health Department)
	(Property Owner)		(Health Department)
DATE:	11/19/19	DATE:	11-27-19

bing maps

- A Grant County, 700 E Center St, Sheridan, AR 72150
- B 3279 US-167 N, Sheridan, AR 72150, US

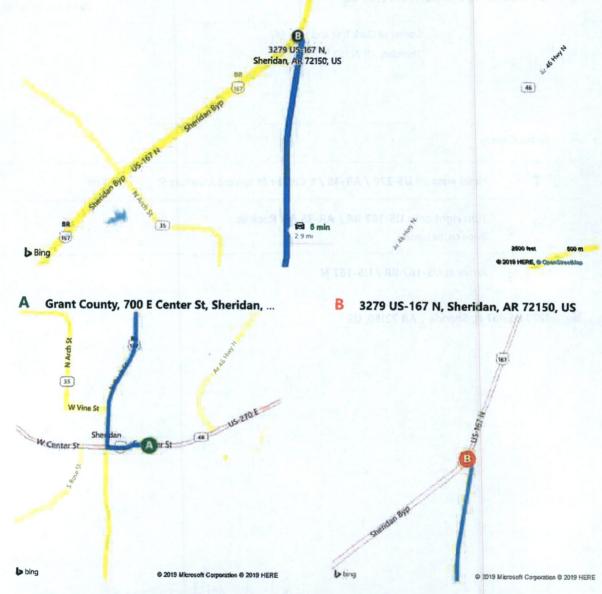
5 min , 2.9 miles Light traffic Via US-270, US-167 BR

Corner of Clark Trail and Hwy 167 Sheridan, AR 72150

A Grant County

1	1.	Head west on US-270 / AR-46 / E Center St toward Arkansas St	0.3 mi
Þ	2.	Turn right onto US-167 BR / AR-35 / N Rock St Exxon on the corner	2.5 mi
	3.	Arrive at US-167 BR / US-167 N	

B 3279 US-167 N, Sheridan, AR 72150, US



These directions are subject to the Microsoft® Service Agreement and are for informational purposes only. No guarantee is made regarding their completeness or accuracy Construction projects, traffic, or other events may cause actual conditions to differ from these results Map and traffic data © 2019 HERE™

