

81.0

75.0

# **APPROVED**

By Randy Trox at 5:12 pm, Sep 15, 2011

### Notes:

- The cleanout port at the front of the tank will not be interfered with.
- The outlet tee will be removed to allow the FAST® treatment system
- outlet to be installed properly. See Waite Tank drawing "1000 Gallon Mid-Seam Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements.
- The volume of the septic and dosing tank will be as required in OAR 340-071.
- All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
  All electrical connections shall
- meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.

### DO NOT SCALE

UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]



Mid-Seam Waite 0.5 MCF

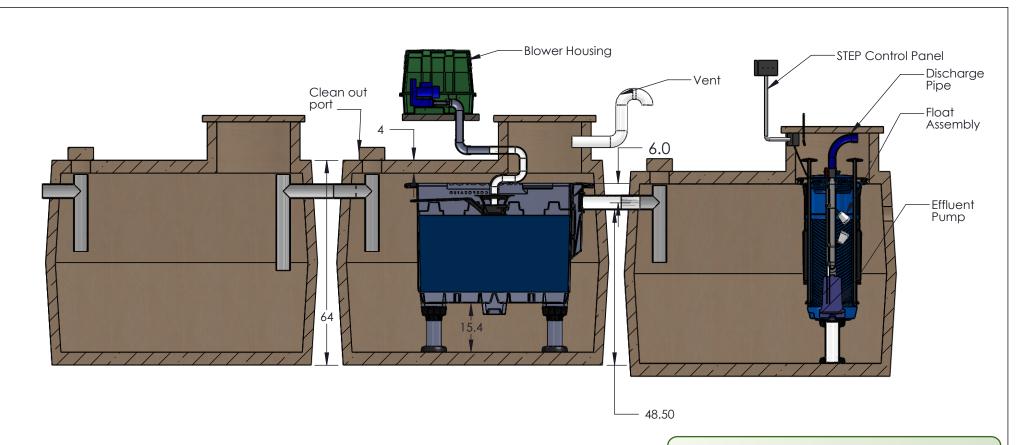
WEIGHT lb NAME DATE CHECKED PF

DRAWING NUMBER Dosing Septic

SHEET 1 OF 1

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 BIO-MICROBICS © 2010 DRAWN CTG 8/11/2009 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

REVISED 2/9/2010 REV. INI-01-Q



- The cleanout port at the front of the tank will not be interfered with.

  The outlet tee will be removed to allow the FAST® treatment system outlet to be installed properly.
- See Waite Tank drawing "1000 Gallon Mid-Seam Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements.
- The volume of the septic and dosing tank will be as required in OAR 340-071.
- All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
  All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.

## **APPROVED**

By Randy Trox at 5:12 pm, Sep 15, 2011

DO NOT SCALE

UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]



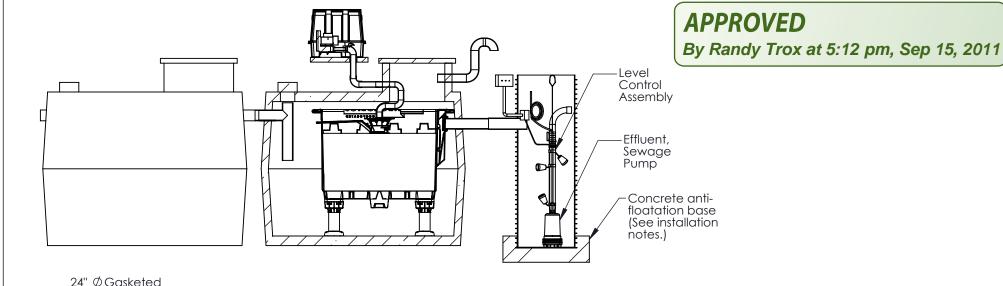
Mid-Seam Waite 0.5 MCF

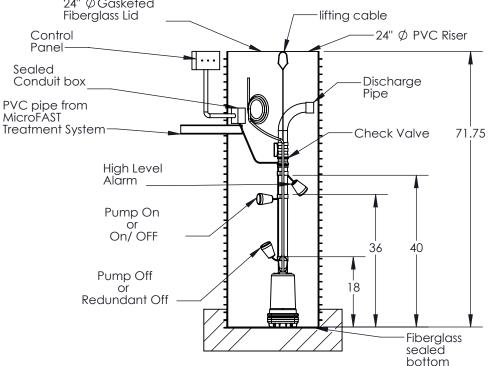
	WEIGHT	lb	SIZE	DRAWING NUMBER
	NAME	DATE	اما	Post Pi
10	DRAWN CTC	8/11/2009	<i>,</i> ,	1 0311 (
	CHECKED PF	2/9/2010		REVISED 2/9/2010

Post Pump Tank REVISED 2/9/2010 REV. INI-01-Q

SHEET 2 OF 3

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 BIO-MICROBICS © 201 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.





- The cleanout port at the front of the tank will not be interfered with.
- The outlet tee will be removed to allow the FAST® treatment system outlet to be installed properly.
- See Waite Tank drawing "1000 Gallon Mid-Seam Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements.
- The volume of the septic and dosing tank will be as required in OAR 340-071.
- All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
  All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.

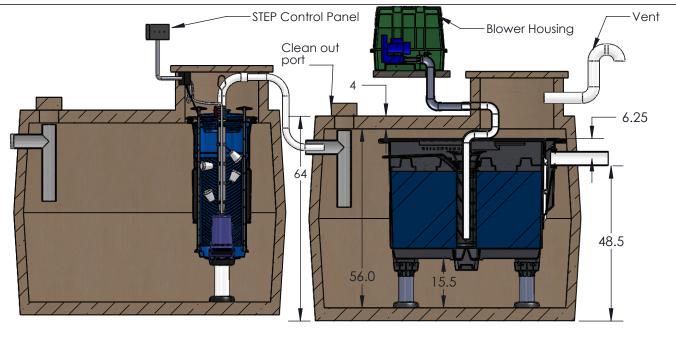


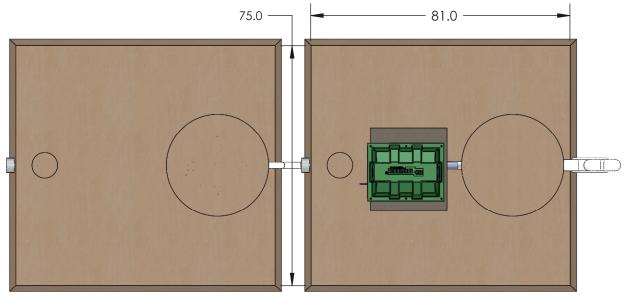
[± 0.05 CM/CM]

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 BIO-MICROBICS © 2010 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

DRAWING NUMBER WEIGHT lb NAME DATE Distribution Vault DRAWN CTC 8/11/2009 CHECKED PF REVISED 2/9/2010

SHEET 3 OF 3 REV. INI-01-I





By Randy Trox at 7:51 am, Mar 10, 2010

#### Notes:

- The cleanout port at the front of the tank will not be interfered with.
- The outlet tee will be removed to allow the FAST® treatment system
- outlet to be installed properly. See Waite Tank drawing "1000 Gallon Mid-Seam Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements.
- The volume of the septic and dosing tank will be as required in OAR 340-071.
- All connections into and out of pumping system shall be sealed and water tiaht.
- The pumping system must be
- properly vented.
  All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.

DO NOT SCALE

UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]



Mid-Seam Waite 0.75 MCF

REV. INI-01-Q

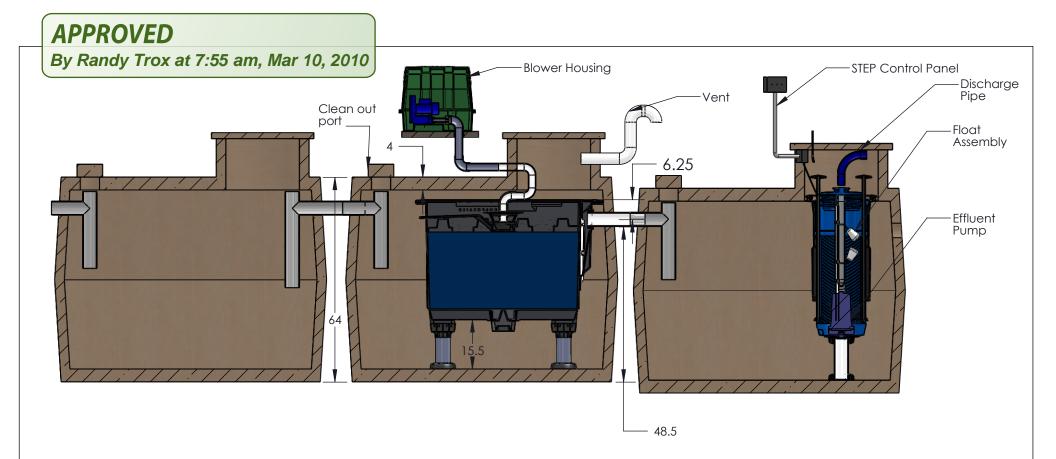
	WEIGHT	lb	SIZE	
	NAME	DATE	اما	
0	DRAWN CTC	8/11/2009	<i>,</i> ,	
	CHECKED PF	2/9/2010		

DRAWING NUMBER Dosing Septic

REVISED 2/9/2010

SHEET 1 OF 1

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 BIO-MICROBICS © 201 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.



- The cleanout port at the front of the tank will not be interfered with.

  The outlet tee will be removed to allow the FAST® treatment system outlet to be installed properly.
- See Waite Tank drawing "1000 Gallon Mid-Seam Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements.
- The volume of the septic and dosing tank will be as required in OAR 340-071. All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
  All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.

DO NOT SCALE

UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]



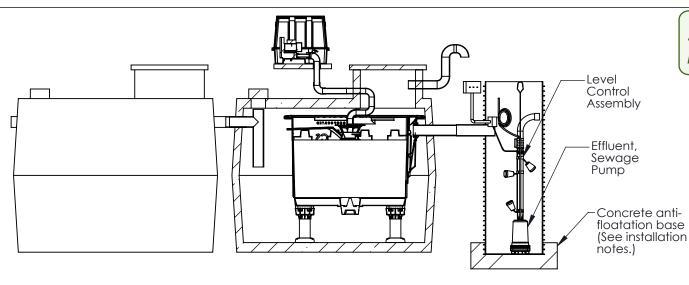
Mid-Seam Waite 0.75 MCF

	WEIGHT	di	SIZE
	NAME	DATE	Δ
010	DRAWN CTC	8/11/2009	١, ١
	CHECKED PE	2/0/2010	

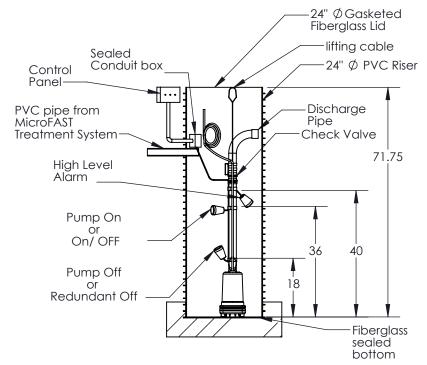
DRAWING NUMBER Post Pump Tank REVISED 2/9/2010 REV. INI-01-Q

SHEET 2 OF 3

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 BIO-MICROBICS © 20 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

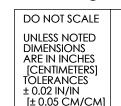


By Randy Trox at 7:57 am, Mar 10, 2010



#### Notes:

- The cleanout port at the front of the tank will not be interfered with.
- The outlet tee will be removed to allow the FAST® treatment system outlet to be installed properly.
- See Waite Tank drawing "1000 Gallon Mid-Seam Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements. The volume of the septic and dosing tank will be as required in OAR 340-071.
- All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
  All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.





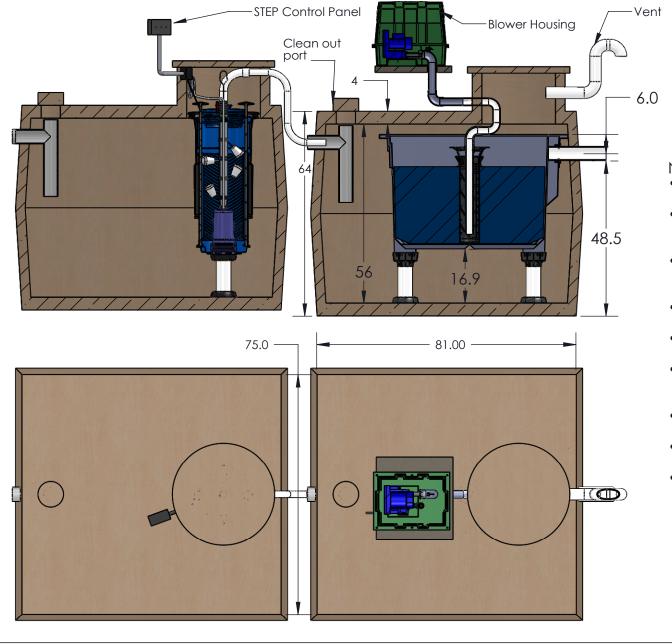
Mid-Seam Waite 0.75 MCF

	WEIGHT	lb	SIZE	
	NAME	DATE	اما	
0	DRAWN CTC	8/11/2009	' `	
	CHECKED PF	2/9/2010		

DRAWING NUMBER Distribution Vault REVISED 2/9/2010 REV. INI-01-I

SHEET 3 OF 3

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 BIO-MICROBICS © 201 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.



By Randy Trox at 7:50 am, Mar 10, 2010

#### Notes:

- The cleanout port at the front of the tank will not be interfered with.
- The outlet tee will be removed to allow the FAST® treatment system outlet to be installed properly.
- See Waite Tank drawing "1000 Gallon Mid-Seam Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements.
- The volume of the septic and dosing tank will be as required in OAR 340-071
- All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
- All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.

REVISED 2/9/2010

#### DO NOT SCALE

UNLESS NOTED
DIMENSIONS
ARE IN INCHES
[CENTIMETERS]
TOLERANCES
± 0.02 IN/IN
I± 0.05 CM/CM]



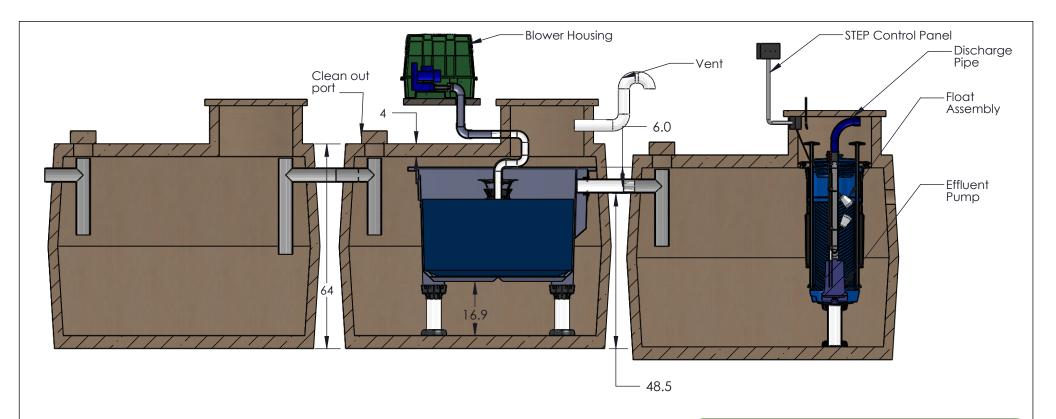
Mid-Seam Waite 0.90 MCF

Dosing Septic

REV. INI-01-Q

SHEET

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 BIO-MICROBICS © 2010 DRAWN CTC 8/11/2009 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.



- The cleanout port at the front of the tank will not be interfered with.

  The outlet tee will be removed to allow the FAST® treatment system outlet to be installed properly.
- See Waite Tank drawing "1000 Gallon Mid-Seam Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements.
- The volume of the septic and dosing tank will be as required in OAR 340-071.
  All connections into and out of pumping system shall be sealed and water tight.
  The pumping system must be properly vented.
  All electrical connections shall meet local codes.

- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.

# **APPROVED**

By Randy Trox at 7:56 am, Mar 10, 2010

DO NOT SCALE

UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]



Mid-Seam Waite 0.90 MCF

REV. INI-01-Q

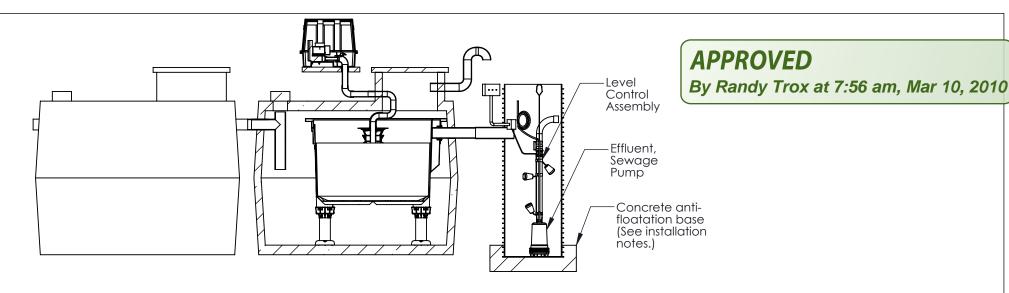
	WEIGHT	lb	SIZE	Г	
	NAME	DATE	Δ	l	
)	DRAWN CTC	8/11/2009	, (		
	CHECKED PF	2/9/2010			

DRAWING NUMBER Post Pump Tank

REVISED 2/9/2010

SHEET 2 OF 3

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 BIO-MICROBICS © 2010 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.



lifting cable

Discharge

40

**Fiberalass** 

sealed

bottom

Pipe Check Valve

24" Ø Gasketed Fiberalass Lid

71.75

24" Ø PVC Riser

Sealed

Conduit box

Control

MicroFAST.

PVC pipe from

Treatment System-

High Level

Alarm

Pump On

On/OFF

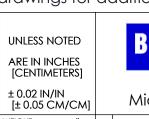
Pump Off

Redundant Off

**Panel** 

### Notes:

- The cleanout port at the front of the tank will not be interfered with.
- The outlet tee will be removed to allow the FAST®
- treatment system outlet to be installed properly. See Waite Tank drawing "1000 Gallon Mid-Seam Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements.
  The volume of the septic and dosing tank will be as
- required in OAR 340-071.
- All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
  All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.





Mid-Seam Waite 0.90 MCF

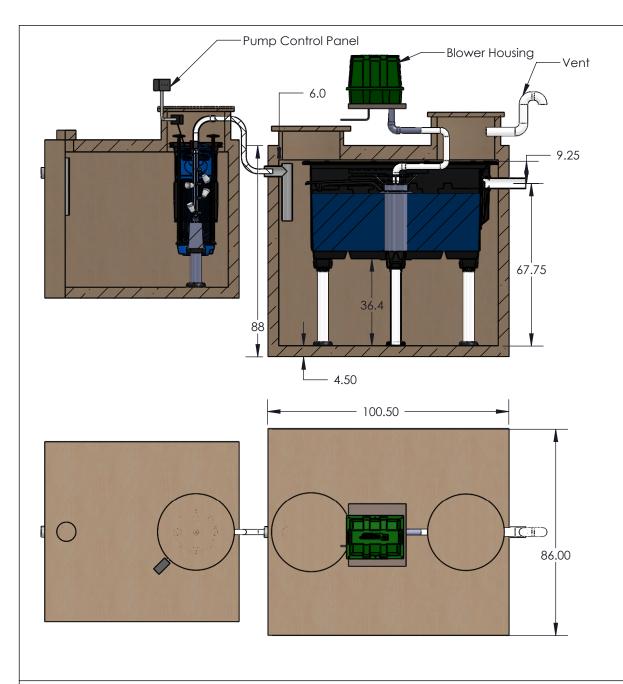
	WEIGHT	lb	SIZE	0
	NAME	DATE	Δ	
10	DRAWN CTC		١, ١	
	CHECKED PF	2/9/2010		

DRAWING NUMBER Distribution Vault REVISED 2/9/2010 REV. INI-01-I

SHEET 3 OF 3

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 BIO-MICROBICS © 20 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

18



By Randy Trox at 8:45 am, Mar 10, 2010

#### Notes:

- The inlet will not be interfered with.
- The outlet tee will be removed to allow the FAST® treatment system outlet to be installed properly.
- outlet to be installed properly.
   See Waite Tank drawing "2000 Gallon Septic Tank" for detailed tank dimensions.
- All exterior pipe size as per Oregon requirements.
- The volume of the septic and dosing tank will be as required in OAR 340-071.
- All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
- All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.

DO NOT SCALE

UNLESS NOTED
DIMENSIONS
ARE IN INCHES
[CENTIMETERS]
TOLERANCES
± 0.02 IN/IN
[± 0.05 CM/CM]



Waite 1.5 MCF

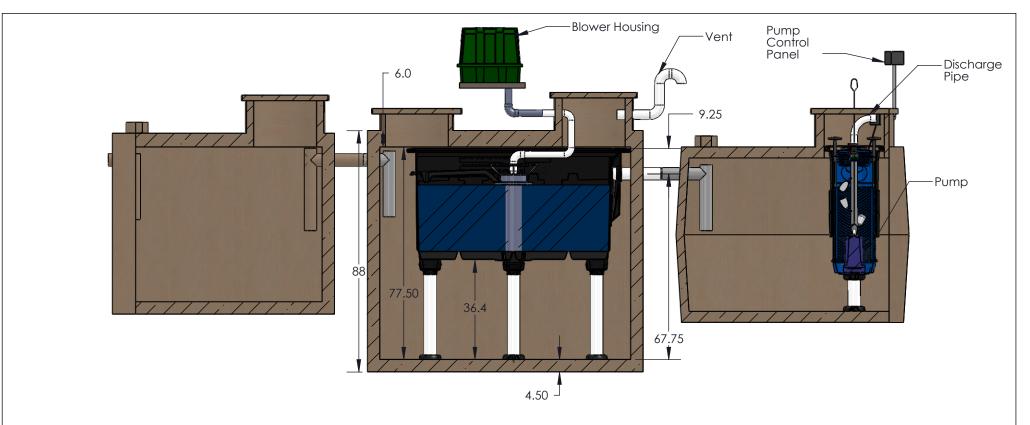
WEIGHT	Ib	SIZE
NAME	DATE	
DRAWN	CTC	8/11/2009
CHECKED	AB	2/25/2010

Dosing Septic

REVISED 2/25/2010 REV. INI-01-T

SHEET 1 OF 1

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 BIO-MICROBICS © 2010 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.



- The inlet will not be interfered with.
- The outlet tee will be removed to allow the FAST® treatment system outlet to be installed properly. See Waite Tank drawing "2000 Gallon Septic Tank" for detailed tank
- dimensions.
- All exterior pipe size as per Oregon requirements.

  The volume of the septic and dosing tank will be as required in OAR 340-071.
- All connections into and out of pumping system shall be sealed and water tiaht.
- The pumping system must be properly vented.
  All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.

# **APPROVED**

By Randy Trox at 8:45 am, Mar 10, 2010

DO NOT SCALE

UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]



Waite 1.5 MCF

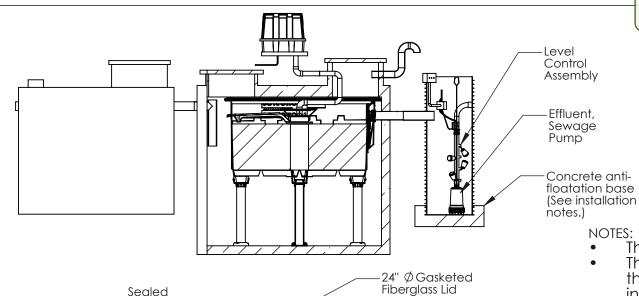
	-		-		
	WEIGHT		lb	SIZE	Г
	1	IAME	DATE	Δ	l
)	DRAWN	CTC	8/11/2009	<i>,</i> ,	
	CHECKE	) AB	2/25/2010		

DRAWING NUMBER Distribution Tank REVISED 2/25/2010 REV. INI-01-U

SHEET 2 OF 3

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 BIO-MICROBICS © 2010 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

By Randy Trox at 8:45 am, Mar 10, 2010



Discharge Pipe

Check Valve

41

lifting cable

71.75

24" Ø PVC Riser

Fiberalass sealed bottom

Conduit box

Control

High Level

Pump On or On/ OFF

Pump Off

Redundant Off

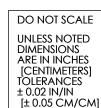
Alarm

Panel

PVC pipe from MicroFAST

Treatment System

- The inlet will not be interfered with.
- The outlet tee will be removed to allow the FAST® treatment system outlet to be installed properly.
- installed properly.
   See Waite Tank drawing "2000 Gallon Septic Tank" for detailed tank dimensions.
- All'exterior pipe size as per Oregon requirements.
- The volume of the septic and dosing tank will be as required in OAR 340-071.
- All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
- All electrical connections shall meet local codes.
- Reference "Short-FAST-Module-Procedure" and MicroFAST drawings for additional information.





Waite 1.5 MCF

	-		-		
	WEIGHT		lb	SIZE	
	N	IAME	DATE	Δ	
0	DRAWN	CTC	8/11/2009	, ,	
	CHECKED	) AB	2/25/2010		

Distribution Vault

REVISED 2/25/2010 REV. INI-01-J

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 BIO-MICROBICS © 201 INTEREST OF TECHNOLOGICAL ADVANCEMENT, ALL PRODUCTS ARE SUBJECT TO DESIGN AND OR MATERIAL CHANGE WITHOUT NOTICE.

20

SHEET 3 OF 3

By Randy Trox at 7:52 am, Mar 10, 2010

### NOTES:

#### Installation

- The Basin is composed of a plastic pipe with a fiberalass bottom and aasketed fiberalass lid. An optional anti-flotation rina may be provided to prevent the basin from floating.
- A 3" to 4" thick concrete base is required for anchoring purposes in areas Panelwhere floatation of the vault is possible.
- All connections into and out of pumping system shall be sealed and water tight.
- The pumping system must be properly vented.
- All electrical connections shall meet local codes.

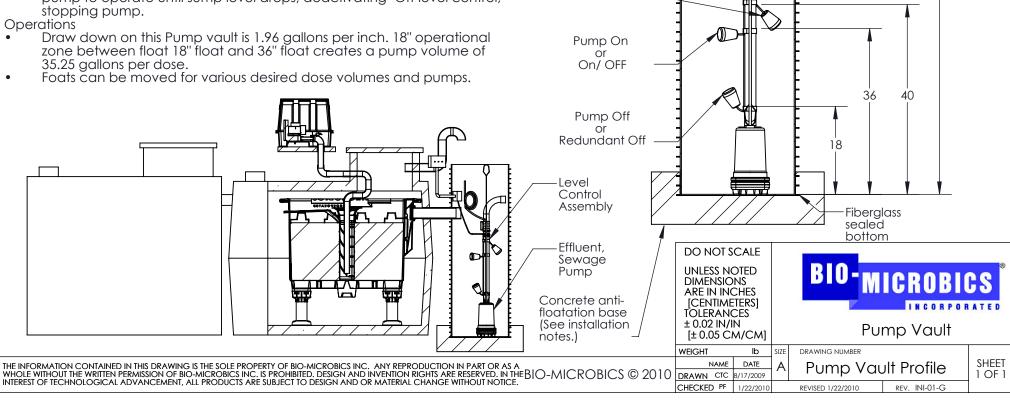
#### **Flectrical**

- Content level control and pump power cords to junction box as shown.
- Make certain all compression fittings are tight.
- Install control panel.
- Run wires to control panel through conduit and connect cords coming into the connection box. Mark or trace each incoming wire so that it can be connected to the proper cord.

#### Starting System

- Öpen Ball Valve
- Run water into basin until the "On" level control starts the pump. Allow pump to operate until sump level drops, deactivating "Off level control, stopping pump.

- 35.25 gallons per dose.



Sealed

PVC pipe from

Treatment System

High Level

Alarm

MicroFAST.

Control

Conduit box

24" Ø Gasketed

lifting cable

-24" Ø PVC Riser

71.75

Discharge

Pipe

Check Valve

Fiberalass Lid