NOTES

1. Blower piping to FAST® may not exceed 100 FT [30.5m] total length and use 4 elbows maximum. For distances greater than 100 FT [30.5m] - consult factory. Blower must be located above flood/standing water levels on a concrete base 28" x 42" x 2" [71 x 106 x 5cm] minimum.

   Vent to be located above finish grade or higher to avoid infiltration. Cap with vent grate w/ at least 19.5 sq in. [126 sq. cm] open surface area. Secure with stainless steel screws (see sheet 4 of 4 FAST® 3.0 Details).

   Run vent to desired location and cover opening with vent grate w/ at least 19.5 sq in. [126 sq. cm] of open surface area. Secure with stainless steel screws. Vent piping must not allow excess moisture build up or back pressure.

2. All appurtenances to FAST® (e.g. tank pump outs, etc.) must conform to all country, state, province, and local plumbing and electrical codes. The blower control system is provided by Bio-Microbics, Inc.

3. Tank volume must be increased by 20% if the minimum of 13 inches [33cm] is used between the unit and the base of tank. Consult factory for approval.

4. The primary compartment may be a separate tank. If two tanks are used additional recycling may be needed for added denitrification.

   Either the influent pipe tee shall be fitted with a pipe cap or the baffle separating the two zones shall be extended to the top of the tank. If choosing to use the pipe cap; drill a 1/4" [0.6cm] vent hole in the cap, and the baffle wall shall be at least 3" [8cm] higher than the water level.

   All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access

5. Tank, anchors, piping, conduit, blower housing pad and vents are provided by others.

6. Any piping and ancillary equipment installed after FAST® must not impede or restrict free flow of effluent.

   No more than 4 FT [44.5cm] of fill may be placed over unit lid. Unit may stand inside tank (see sheet 2 of 3 FAST® 3.0 with feet). Refer to installation manual for more details.
NOTES

1. Blower piping to FAST® may not exceed 100 FT [30.5m] total length and use a maximum of 4 elbows in the piping system (@ 100FT [30m]). For distances greater than 100 FT [30m] consult factory. Blower must be located above flood levels on a concrete base 28" X 42" X 2" [71 X 106 X 5cm] minimum.

2. Vent to be located above finish grade or higher to avoid infiltration. Cap with a vent grate with at least 19.5 sq in. [126 sq. cm] open area. Secure with stainless steel screws (see sheet 4 of 4 FAST® 3.0 Details).

Run Vent to desired location and cover opening with a vent grate with at least 19.5 sq in. [126 sq. cm] open surface area. Secure with stainless steel screws. Vent piping must not allow excess moisture build up or back pressure.

3. All appurtenances to FAST® (e.g. tank pump outs, etc.) must conform to all applicable country, state, province, and local plumbing and electrical codes. Blower control system by Bio-Microbics, Inc.

4. Must increase tank size by 20% if the minimum of 13 inches [33 cm] is used between the unit and the base of tank. Consult factory for approval.

5. The primary compartment may be separate tank. If two tanks are used additional recycling may be needed for added denitrification.

6. Either the influent pipe tee shall be fitted with a pipe cap or the baffle separating the two zones shall be extended all the way to the top of the tank. If choosing to use the pipe cap; drill a 1/4" [0.6cm] vent hole in the cap, and the baffle wall shall be at least 3" [8cm] higher than the water level.

7. All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access.

8. Tank, piping, conduit, blower housing pad and vents are provided by others.

9. All piping and ancillary equipment installed after FAST must not impede or restrict free flow of effluent.

10. The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2ft [.6m] minimum.

11. Minimum height may be reduced, consult factory and reference "Short-FAST-Module-Procedure.pdf".

12. Refer to sheet 3 of 3 FAST® 3.0 Details drawing for leg extensions requirements.

13. In addition to the unit’s required leg extensions, the liner brace must connect the liner at each corner of the tank at or near the top of the liner so as to prevent lateral movement of the liner using only non-corrosive materials. All materials are to be provided by others.
Minimum leg extension assembly
see note 4

Notes
1. Secure leg extension to the FAST® unit by placing two screws on each side of the leg extension (4 screws per foot are included).
2. Cut 4\' schd. 40 PVC pipe (not included) to obtain the desired height. Minimum pipe length of 9 1/8\' [23.1 cm]. For heights greater then 18\' [45.7 cm] use schd. 80 PVC pipe (not included). Consult factory for extending leg beyond 36\' [91 cm].
3. Anchor the leg extensions to the tank with non-corrosive hardware (not included) at the provided mounting points.
4. Increase minimum tank volume by 20% if minimum leg extension is used.
5. The air supply line into the FAST® unit must be secured so as to prevent damage from pipe vibration. See all notes on FAST® 3.0 with lid drawing.
6. The air supply line into the FAST® unit must be secured to prevent vibration induced damage. The air supply line should be secured with a non-corrosive clamp every 2ft [.6m] minimum.
7. Tank, anchors, liner brace, piping conduit, blower, housing pad and vents are provided by others.

Alternate Air Supply Option

2" Air Supply Line

Non-corrosive clamp every 2 feet [.6m]

2" Air Supply Line

Non-corrosive clamp every 2 feet [0.6m]

Riser

Gasket

2" PVC Coupling

FAST® Air Lift

FAST® Air Lift

2" Air Lift

Riser

FAST® Lid

Vent Option

NDS 6" Grate MIN 19.5 SQ in [126 Sq cm] of open surface area

2 screws per side included

Fasten with non-corrosive screws

9 1/8" MIN [23.1 MIN]