



General Notes

- 1 Pipe must meet ASTM specifications listed on reverse side and be rated a minimum of 150 psi.
- 2 The outflow pipe shall not be smaller than the inflow pipe. Two inch or larger is suggested for gravity systems and three inch for pressure systems. A larger pipe facilitates draining the tank. On larger pipes, a bolt or rod through the pipe eases removal. Suggested drain pipe is 4" corrugated plastic tile horizontally with 3" PVC vertical pipe with an "adapter" fitting for joining the different pipe types.
- 3 See adjoining sheet for pipe, float valve and ice prevention recommendations.
- 4 After the inflow and outflow lines are in position, thoroughly tamp or compact the trenches as they are filled in the area where the tank and pad are located to minimize settlement and the possibility of leakage.
- 5 Prepare the tire. For sheep and other small animals 19.5X24 12 ply backhoe tires work well. For large animals 23.1X25 loader or larger scraper tires work well. **(NOTE: narrower tires may not have enough depth for the float to operate properly.)** Cut the top bead and part of the sidewall from the tire. For smaller

- tires, a utility knife may work. All fabric ply tires may be cut with a reciprocating saw and wood blade.
- NOTE: Steel belted and cut resistant tires may be impossible to cut.** A starting hole can be bored with an electric drill. After starting the cut, a wedge or other device inserted into the cut will help provide clearance for the blade. Liquid dishwashing detergent can be used to lubricate the blade. After cutting about one quarter the way around, support or lift the sidewall in such a manner as to prevent kinking the blade. **WARNING! Tires and their sidewalls can be quite heavy and dangerous. Use all necessary precautions to prevent personal injury.** In addition, tire cut fibers may cause digestive problems in horses.
- 6 Level the tank site and place the tire in position. Use a 5 1/2 bag concrete mix or Sackcrete for filling the center hole. Mix the concrete wetter than usual to ensure good tire contact. Take appropriate measures to eliminate all air spaces in the concrete, especially under the bead.
 - 7 Install float and ice prevention valves. Allow the concrete to dry several days before filling with water.
 - 8 The pad surrounding the tank may be either concrete or gravel. On lighter tires, exercise care when backfilling gravel. Distortion of the tire can cause leaks.

End Cap

Drawing not to scale