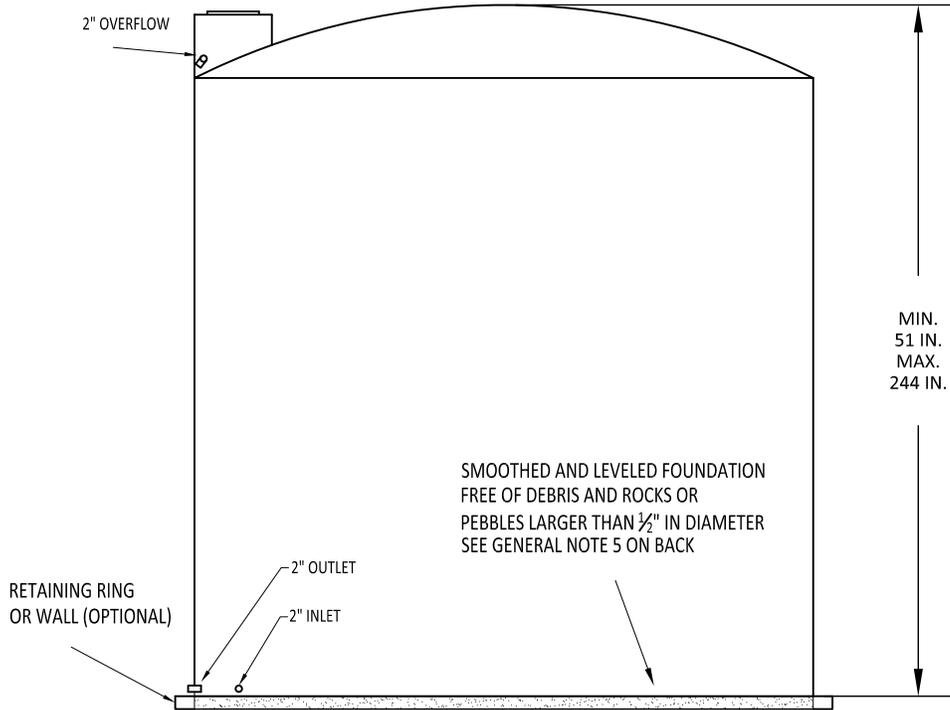
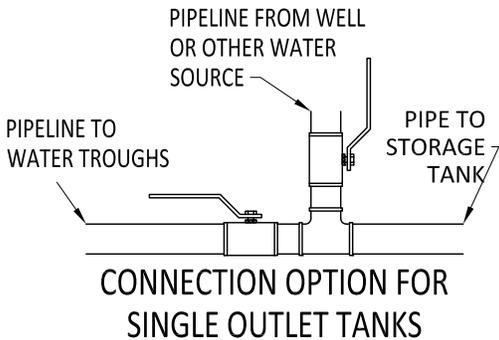


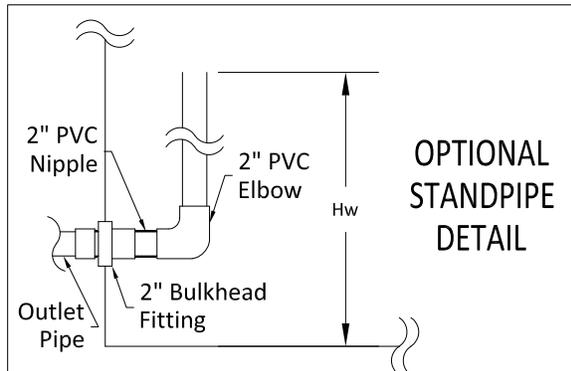
PLAN VIEW



SECTION VIEW



See General Notes on Page 2
DRAWING NOT TO SCALE
Plumbing Locations May Vary



GENERAL NOTES:

1. Dimensions may vary as follows: diameter from 64 to 141 inches; 51 to 244 inches in height.
2. All Polyethylene (PE) storage facilities shall be manufactured in accordance with ASTM D-1998, and the manufacturer of the storage facility shall furnish to the contractor or buyer a certification that the storage facility supplied meets these material and manufacturing requirements.
3. Plumbing shall be new 2-inch galvanized steel, copper, bronze, or PVC plastic Sch-40 unthreaded or Sch-80 threaded, PE (160 PSI minimum) pipe. All fittings shall comply with ASTM standard for the type of fitting and material used.
 - a. Watering facilities shall be equipped with a water inlet pipe, drainage outlet and overflow outlet as either individual outlets or in combination. Overflow shall be piped to a stable or suitable point of release.
 - b. Control devices shall be installed to regulate the water level in the watering facility and prevent unnecessary overflows
 - c. All piping may either be plumbed through the bottom or side of the watering facility.
 - d. Double check valves or other measures prescribed in local plumbing codes are required at watering facility inlets when watering facilities are connected to waterlines that have domestic users.
4. All storage facilities shall be protected against overturning and sliding from wind forces and animals by utilizing one of the approved methods.
 - a. Manufacturer's recommendations
 - b. Install suitable anchors into the ground underlying the storage facility. Anchors may be hurricane type (screw-in), standard T or U-section steel post (1.33 lb/ft), metal pipe (minimum 2" diameter), or wooden post with a minimum 4" diameter. Wood posts shall be cedar, bois d'Arc, mulberry, mesquite, or black locust. A minimum of 4 anchors are required. Straps, cable or wire with a minimum strength of 500 pounds shall be used and tied within 6" of the ground surface. A minimum of 2 straps, cables or wire shall be installed over the top of the storage facility. Splicing is not allowed.
 - c. Maintain a minimum required depth of water in the storage facility. The minimum required water depth, in inches, shall be determined by using the following equation:

$$H_w = (0.735 \cdot (h/d)^2) + (1.33 \cdot (h/d))$$

Where:

H_w = required minimum depth of water to be maintained in the storage facility

h = height of the storage facility, in inches

d = diameter of the storage facility, in inches

- d. To assure the water level in the storage facility is not unknowingly drawn below the minimum depth for stability, the water supply outlet will be: 1) fitted through the sidewall of the water storage facility at the distance "H_w" above the floor or 2) made as a standpipe as an extension of the included connection of the storage facility so that the height of the standpipe within the storage facility being the distance "H_w" above the floor of the facility. A valve may be placed at the bottom of the water storage facility for clean out and maintenance, but the supply outlet will not be connected to such a clean out facility.
5. Foundation & Adjacent Area Construction Procedures:
 - a. The foundation is prepared by leveling, smoothing, and compacting the area where the watering facility is to be placed. The foundation shall be free of debris and rocks or pebbles larger than ½-inch in diameter. All plumbing used in the floor shall be positioned prior to final smoothing of the foundation.
 - b. Manufacturer's foundation recommendations or a foundation design by a Professional Engineer licensed in Texas is required for water storage facilities with heights greater than 10-feet (120 inches)

SHEET 2 of 2	DRAWING NO. TX-DWG-9005	REVISIONS	 United States Department of Agriculture Natural Resources Conservation Service		STORAGE FACILITY POLYETHYLENE 61 TO 141 INCH DIAMETER 51 TO 244 INCH HEIGHT	DESIGNED BY: <u>Don Ford</u>
		DATE				DRAWN BY: <u>Don Ford</u>
						REVISED BY: <u>Keith Sides</u>
						FILE NAME: <u>TX-DWG-9005</u>
						DATE PLOTTED: <u>11/02/2011</u>