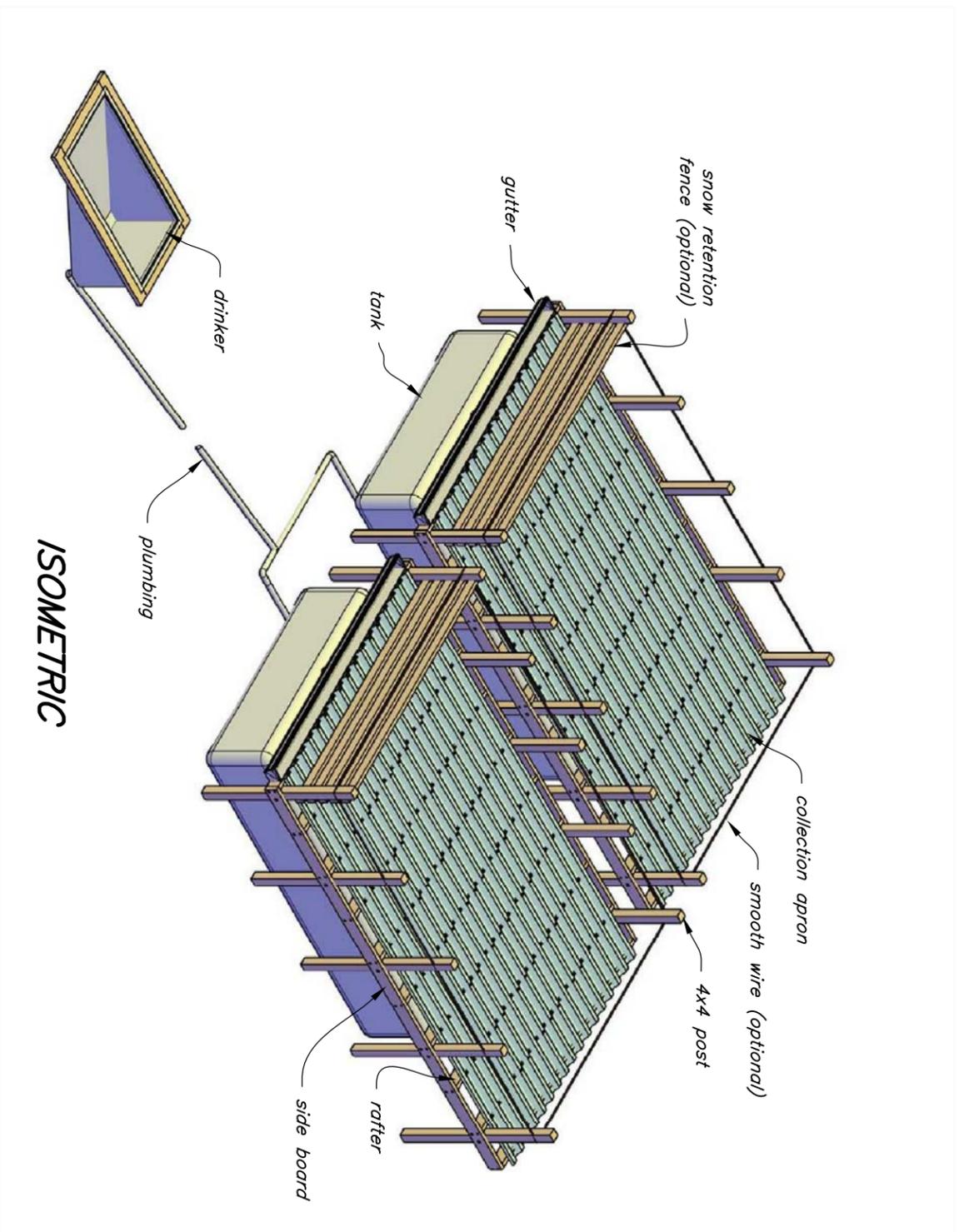


FLOAT-VALVE SYSTEM WITH WOOD POST SUPPORTS

SITE PREPARATION AND TANK INSTALLATION INSTRUCTIONS:

1. When using a float valve controlled system, survey site to insure there is adequate elevation difference between tank and drinker to properly operate float valve. Care shall be taken in selecting a site on significant slopes where potential erosion may occur in the event of overflow.
2. Project site shall be as flat as possible for ease of construction. Avoid areas with depressions. If tanks are empty or partially empty during heavy rains and flooding occurs, tanks may float.
3. Excavate site to the appropriate depth and width of tank and provide necessary trenching for piping and piping appurtenances. Clear site of rocks and other sharp objects.
4. Install all necessary plumbing under and around tank. Insure all fittings are properly installed to prevent leaking. Provide silicone caulking around joints as necessary for additional protection.
5. Consideration shall be given to providing overflow protection at sites where volume of precipitation may exceed storage volume of tank(s).
6. Overflow protection shall be designed and installed as needed, to protect against the potential for erosion.
7. Place the tank/cistern into the excavated area. Make sure the tank sits level in the hole and is evenly supported by the ground. Use a carpenter's level to check for level. Install the tank so the lip is above the surface of the ground by 2 inches to allow for a good fit of the tank's top.
8. Place the lid on the tank before backfilling and compacting soil around the tank. Place compacted soil around lid edge sloping away from the tank lid to provide a seal around the cistern on all sides.
9. Install wooden posts a minimum of 2' into ground. Temporarily support collection apron to desired angle and position. Attach collection apron to posts with 1/2"Ø, 6" long, ASTM A307 galvanized steel bolts. Make sure the corrugations on the roofing material run perpendicular to the gutter location.
10. Pre-drill the gutter to accommodate the galvanized spacers and nails. Cut a 6-inch notch in the center of the gutter and bend the back of the notched section to form a tongue to provide drainage into the tank, or drill hole in the center of the gutter and install downspout.
11. Rake out any excess soil and remove all trash from site.
12. OPTIONAL: To increase water harvesting efficiency, attach 2x boards to top of 4x4 post with (2) #9 wood screws to retain snow pack. To be used only on aprons with 4x4 timber anchor support.



ISOMETRIC

MINIMUM TANK/DRINKER SPECIFICATIONS

TANK SHALL BE FABRICATED FROM MATERIAL MEETING THE FOLLOWING SPECIFICATIONS:

1. High impact resistant polyethylene or fiberglass material
2. UV Stable
3. Rust Resistant
4. Non-toxic
5. Crack resistant during freezing temperature

DESIGN PARAMETERS

BIG GAME WILDLIFE GUZZLER – FLOAT SYSTEM

JOB CLASS: _____

PRACTICE STANDARD: 636

_____ BASIN

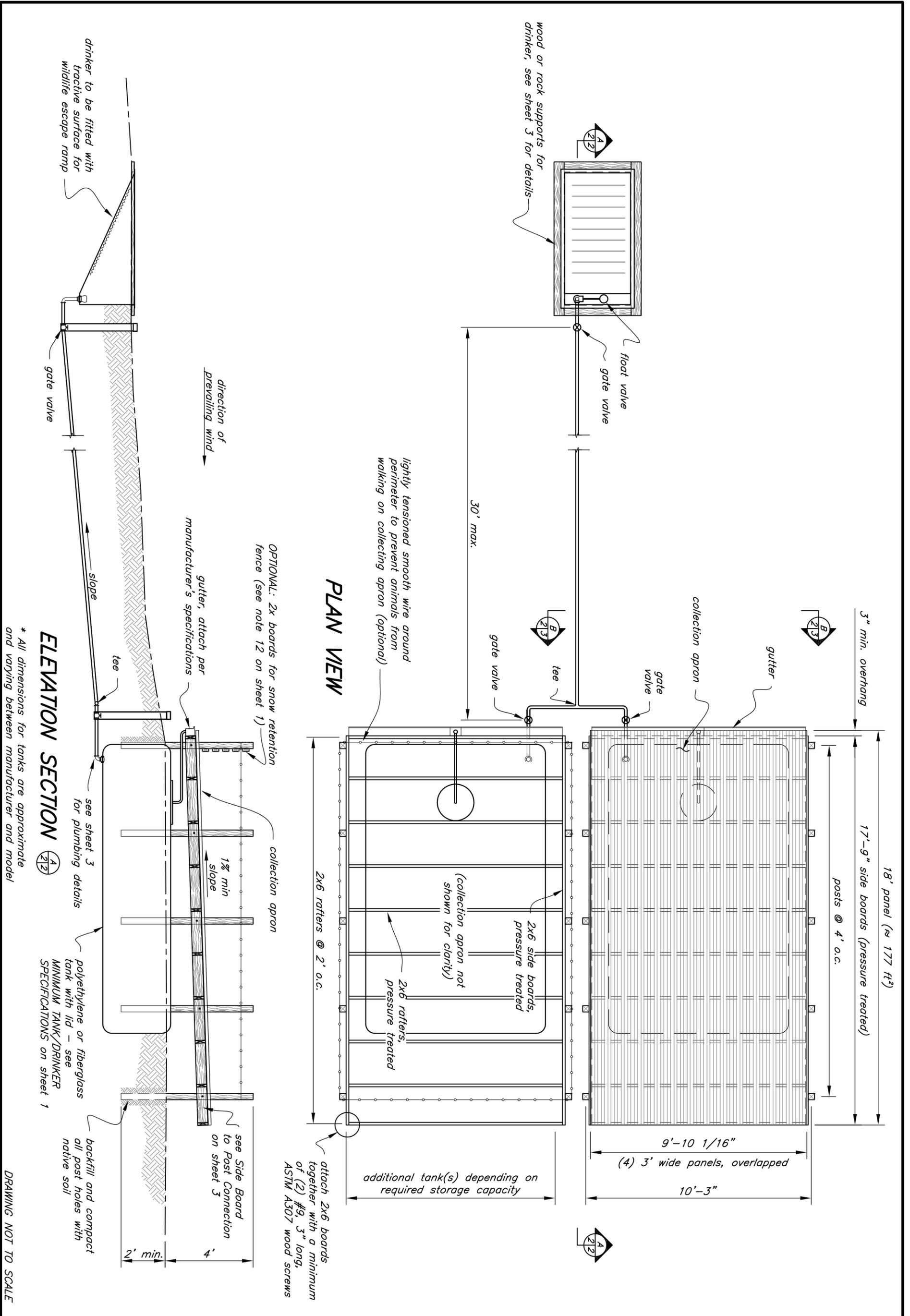
_____ COUNTY, OREGON



Natural Resources Conservation Service
United States Department of Agriculture

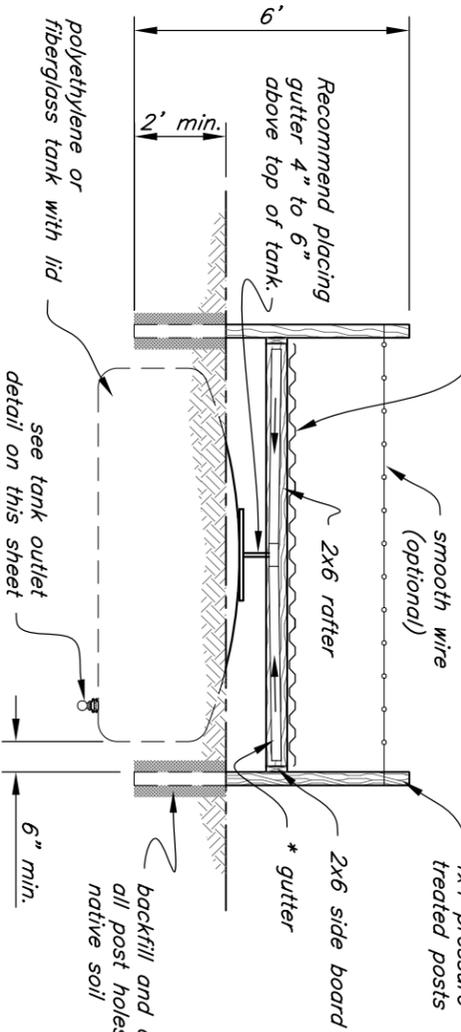
	Date
Designed <u>T. Morales, PE</u>	<u>10/2011</u>
Drawn <u>K Yasumiishi</u>	<u>10/2011</u>
Checked _____	_____
Approved <u>David R. Shelton</u>	<u>10/2011</u>
Title <u>State Conservation Engineer</u>	_____

This drawing to be used in conjunction with Oregon NRCS Practice Standard 636, Wildlife Guzzler Job Sheet.



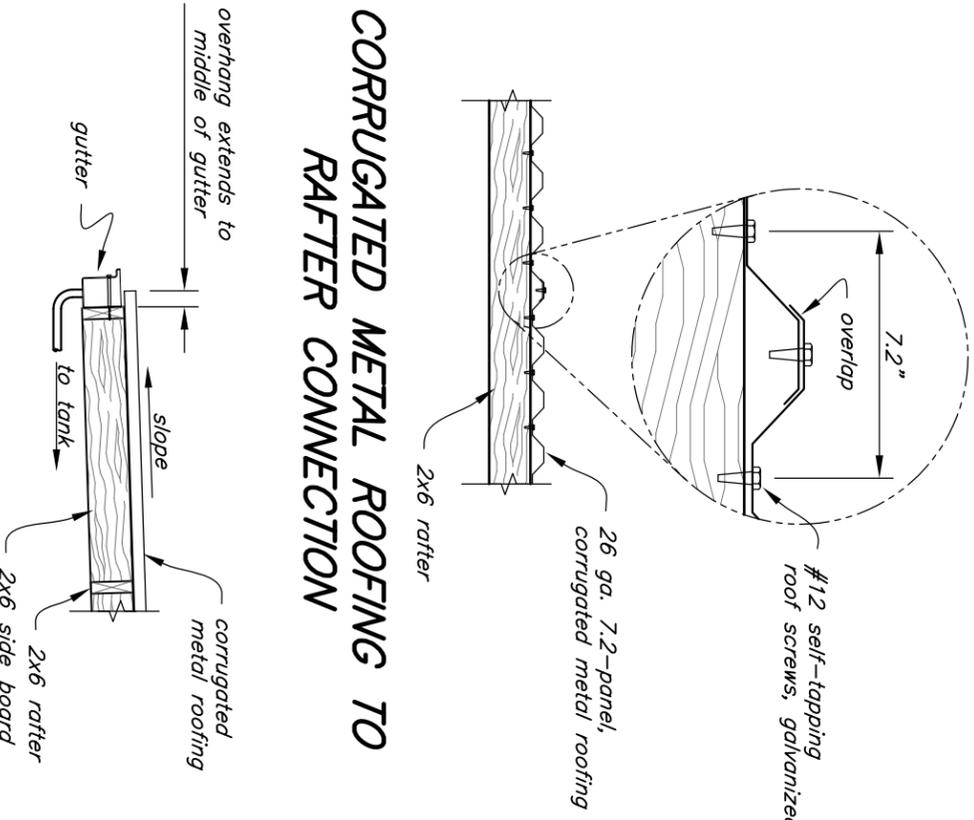
DRAWING NOT TO SCALE

Collection apron - 26 ga., 7.2-panel, corrugated metal roofing material attached with 1" long #12 self-tapping roof screw (galvanized). See detail for Corrugated Metal Roofing to Rafter Connection.



* Gutter to drain to center of gutter and outlet to tank. Cut 6" opening on the gutter or drill 3" hole and install short 3" downspout. Center notch should be 1/2" lower than outside ends for adequate drainage. Cap outside ends.

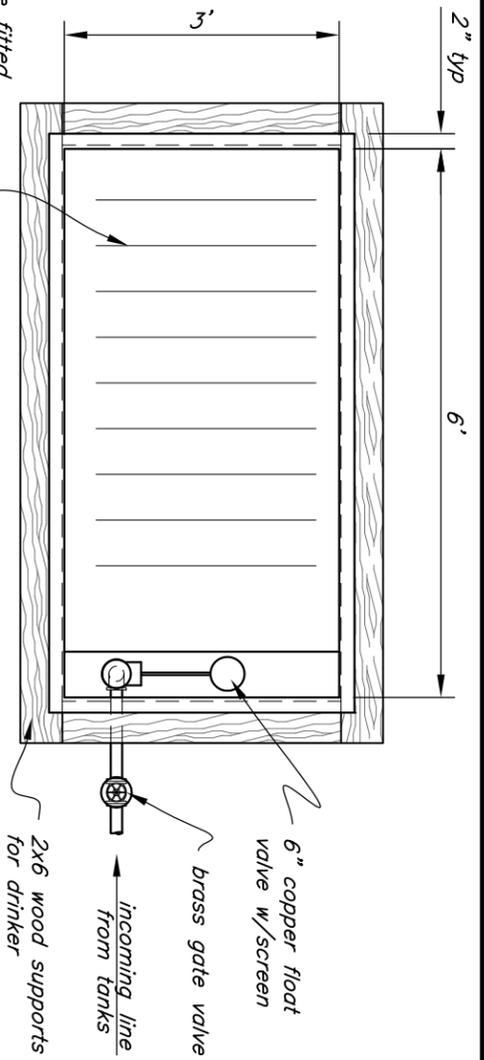
CORRUGATED METAL ROOFING TO RAFTER CONNECTION



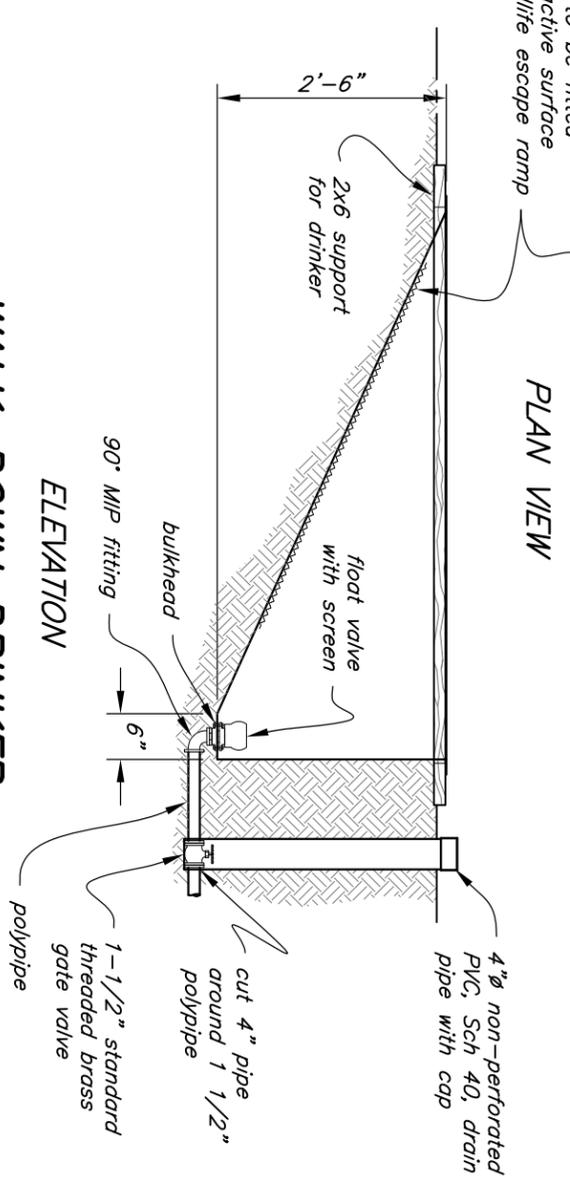
GUTTER TO RAFTER CONNECTION

Attach gutter per manufacturer's specifications.

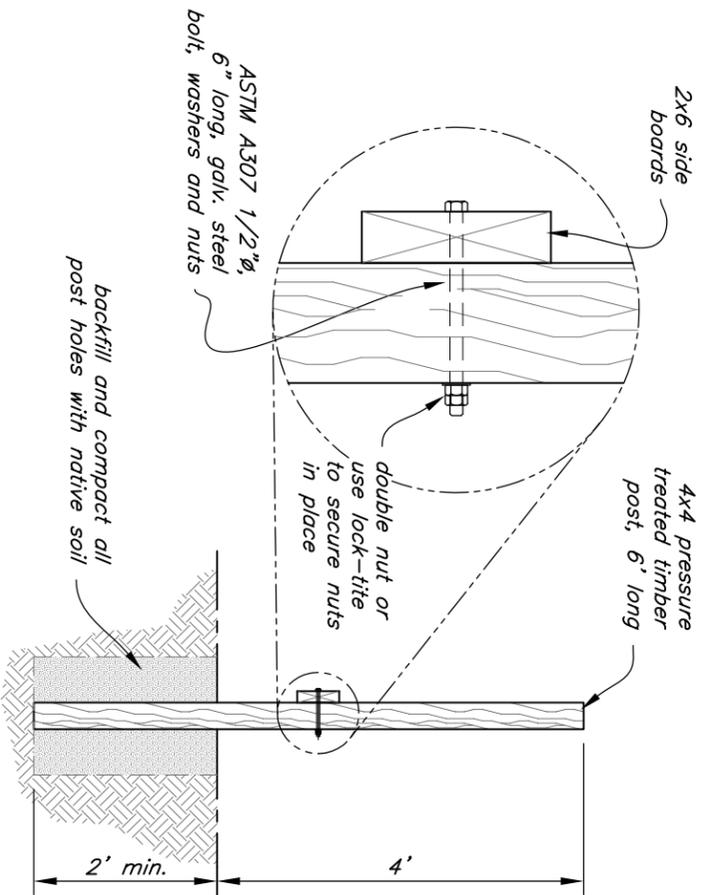
PLAN VIEW



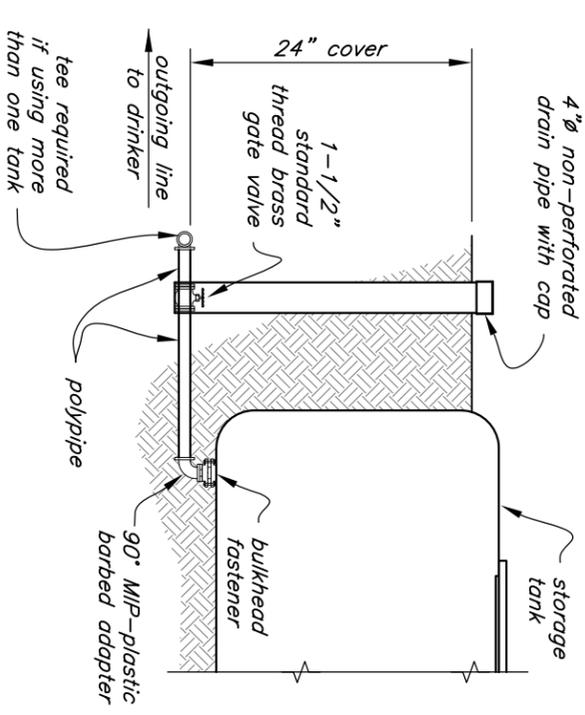
WALK-DOWN DRINKER ELEVATION



SIDE BOARD TO POST CONNECTION



TANK OUTLET PLUMBING DETAIL



MISCELLANEOUS DETAILS
BIG GAME WILDLIFE GUZZLER - FLOAT SYSTEM
 JOB CLASS: _____ PRACTICE STANDARD: 636
 _____ BASIN _____ COUNTY, OREGON



File Name	or_big_guzzler_float.dwg
Drawing No.	4x4 POST
Sheet	3 of 3
Designed	T. Morales, PE 10/2011
Drawn	K. Yasumiishi 10/2011
Checked	
Approved	
Title	