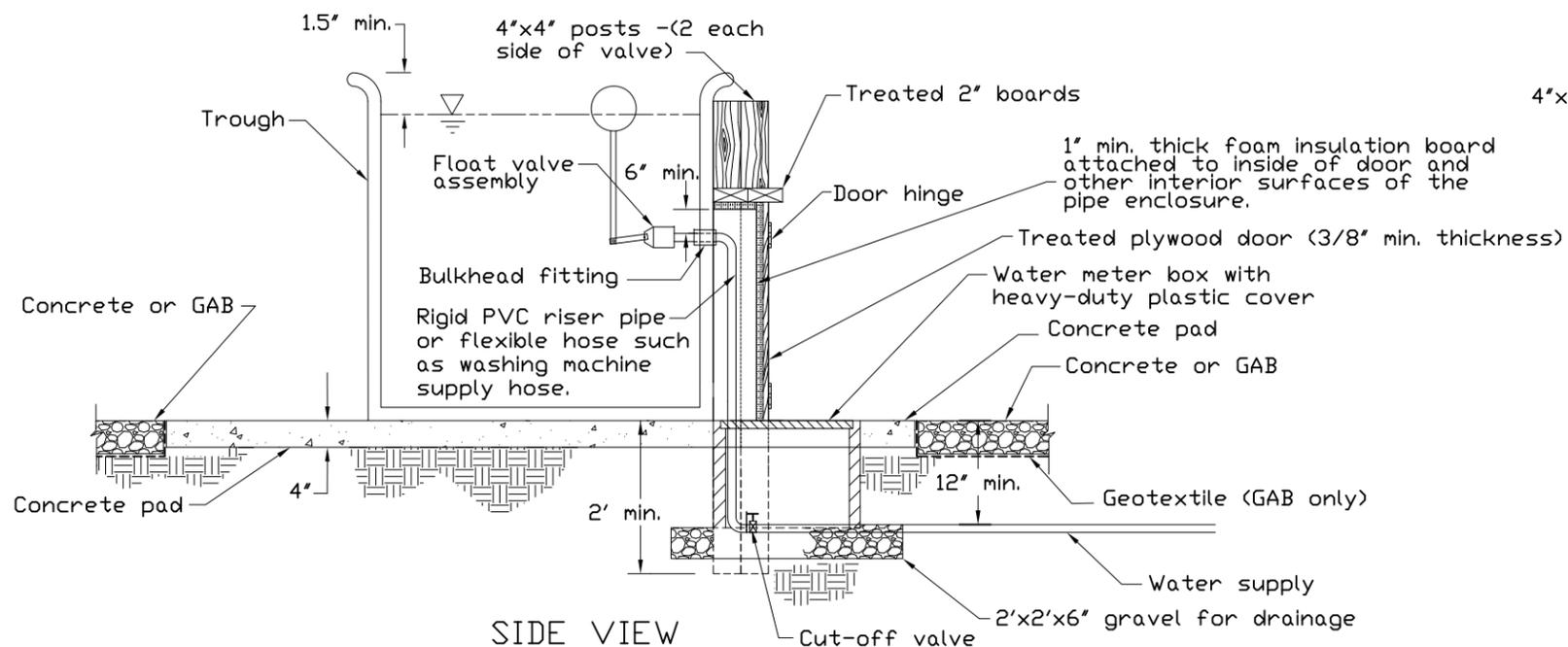
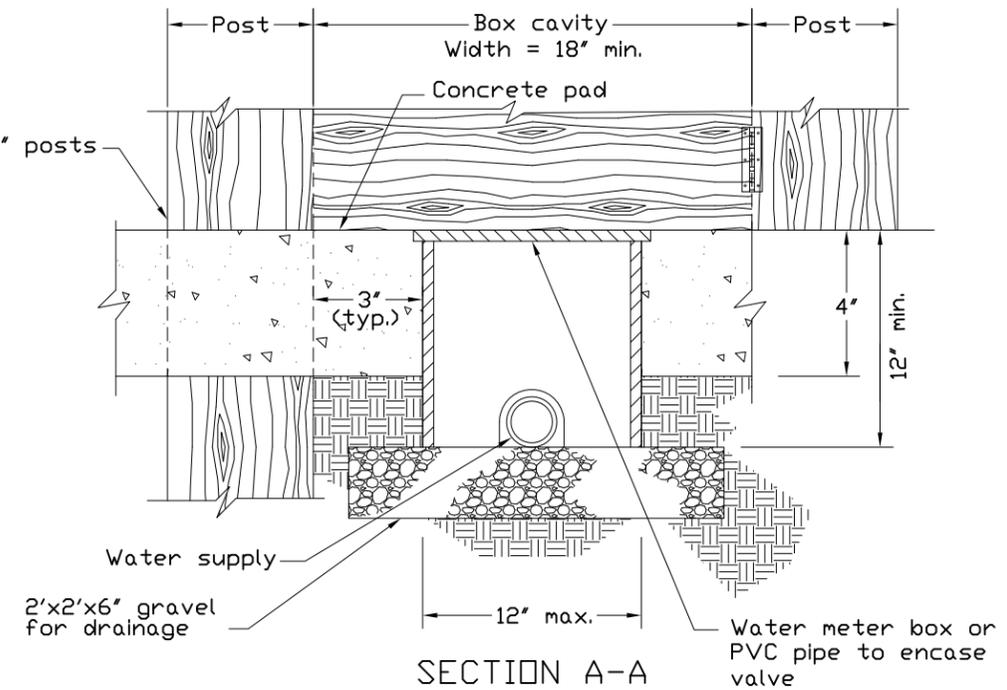


PLAN VIEW



SIDE VIEW



SECTION A-A

NOTES:

1. Details on this sheet are not to scale.
2. All wood dimensions are nominal sizes.
3. All wooden components shall be pressure treated and rated for in-ground use. Fasteners and hardware shall be compatible with the pressure treatment type.
4. See AL-ENG-561-01 or AL-ENG-561-02 for layout of trough and Heavy Use Area and for material requirements for Heavy Use Area.
5. Line the inside of the pipe enclosure with 1' min. thickness foam insulation board. Attach with appropriate screws, nails or construction adhesive.
6. The pipe enclosure shall be sealed where it abuts the trough by expanding insulation foam, caulking or other appropriate means.
7. Cut a hole out of the meter box cover for the riser pipe.
8. In lieu of a meter box, the cutoff valve enclosure can be other appropriate structures such as a section of large diameter PVC pipe.
9. At least 2' of vertical clearance shall be provided between the top of the water supply pipe and the bottom edge of the water meter box or other cutoff valve enclosures.
10. The water meter box (or equivalent) may be located outside the Heavy Use Area if suitably protected.
11. If other structures are used to enclose the cutoff valve, they shall have an appropriate cover or be positioned beneath the riser pipe enclosure so as to provide adequate freeze protection for the cutoff valve and piping.
12. In lieu of cutting a hole in the side of the trough, the water supply may be plumbed through the trough drain plug fitting using adapters compatible with the drain plug threads. When this method is used, other fittings or methods shall be provided to drain the trough.
13. Prior to placement of a concrete trough, place a thin layer of concrete mortar on the concrete pad to provide uniform bearing for the trough.
14. Flexible hose shall meet system pressure requirements.

SEQUENCE OF CONSTRUCTION (GENERAL)

1. Shape and compact the subgrade as specified.
2. Excavate the pipeline trench to the trough location
3. Install the water supply pipe to the trough and backfill the pipe trench as specified.
4. Place the 2x2 gravel drainage pad and set the water meter box or alternative valve encasement.
5. Set posts and form the concrete pad.
6. Pour the concrete pad.
7. Allow at least 24 hours after concrete is poured before removing forms.
8. Set trough and make plumbing connections.
9. Test plumbing for leaks.
10. Construct pipe enclosure with insulation. Caulk as necessary to ensure an air-tight enclosure.
11. Complete construction of Heavy Use Area.
12. Smooth site and vegetate disturbed areas.

Date _____
 Designed _____
 Drawn _____
 Checked _____
 Approved _____

FREEZE-PROOF WATER SUPPLY FOR
 SIDE-PLUMBED WATER TROUGHS
 LANDOWNER _____
 COUNTY, ALABAMA _____



Rev. 5/13

Drawing No.
 AL-ENG-614-02

Sheet _____ of _____