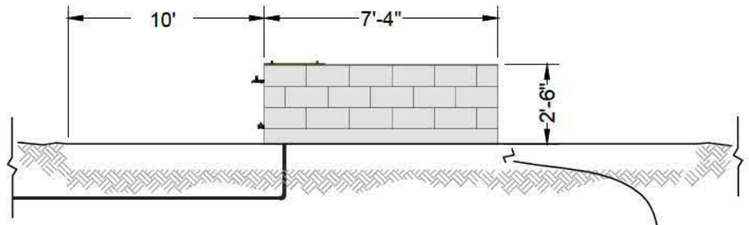
Ensure final finished surface slopes away from the trough, i.e. avoid having surface water pond near the trough.



A layer of compacted base course (crushed rock 100% less than 3"), gravel or other approved aggregate is placed in 6" loose lifts and compacted with at least 3 passes of a vibratory plate.

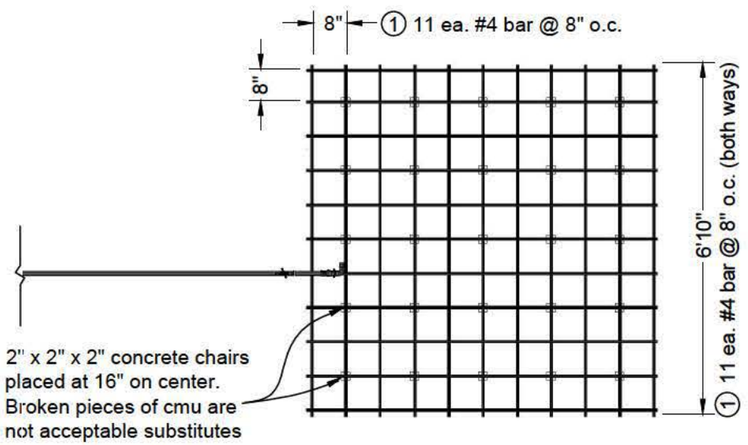
The foundation / heavy use area protection treatment shown is typical. Mandatory foundation inspection and approval by NRCS technical representative is required before placement of base course. The ultimate thickness of material under the trough will be reflected in the "As Built" drawings.

Excavation & Foundation

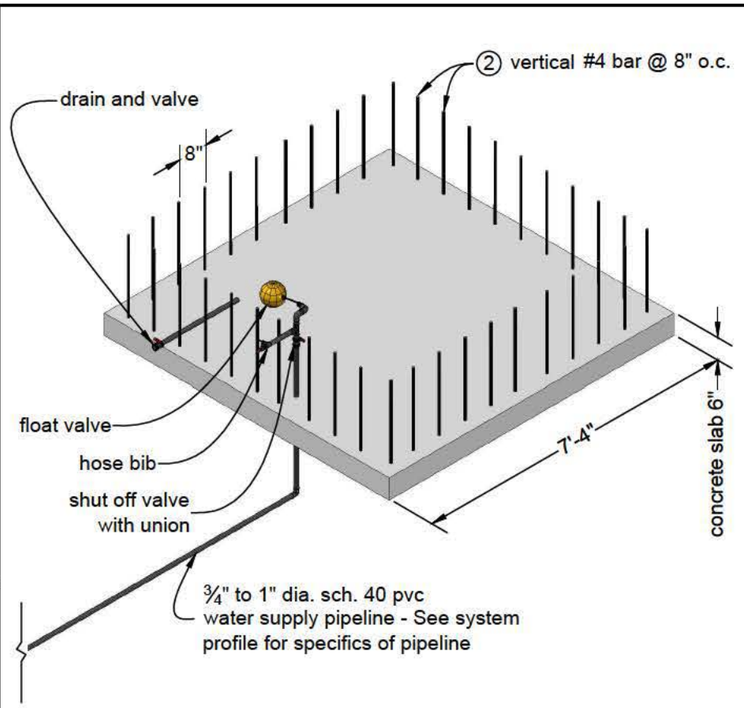
Concrete: The concrete shall meet the provisions of ASTM C-94. Cement shall be type 1 or 1A and have a minimum of 6 bags per cubic yard. Cement shall have an air content of 4 to 7%. coarse aggregate shall conform to ASTM C-33 size numbers 467, 67 or 57. Slump shall be 3 $\frac{1}{2}$" +/- 1". Concrete may be mixed on site providing concrete is proportioned and mixed to meet the above specifications.

Concrete Curing: Concrete shall be kept moist for a minimum of 7 days from pouring. This can be accomplished with frequent wetting, covering with straw, grass clippings, rags or fabric that is kept wet, or use of a curing compound applied in accordance with the manufacturer's instructions.

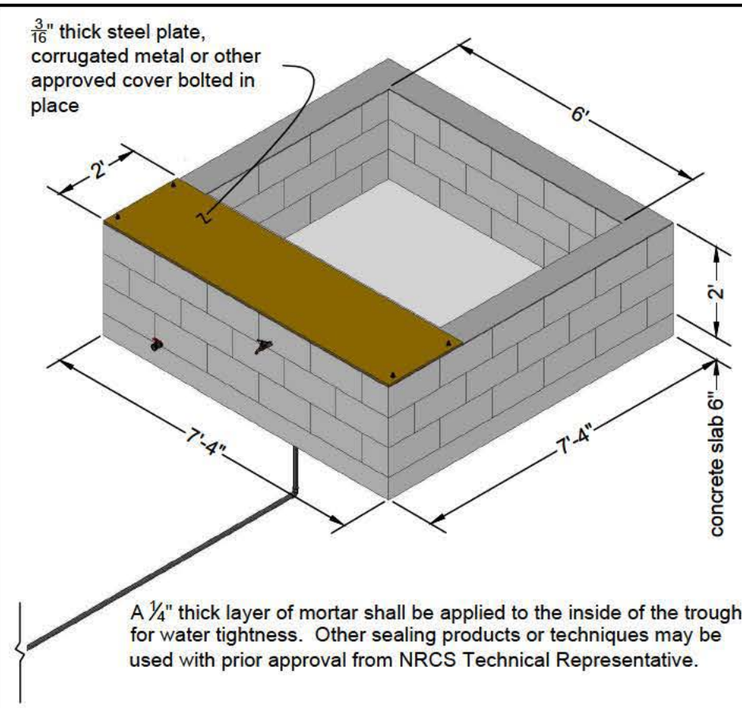
Concrete Requirements



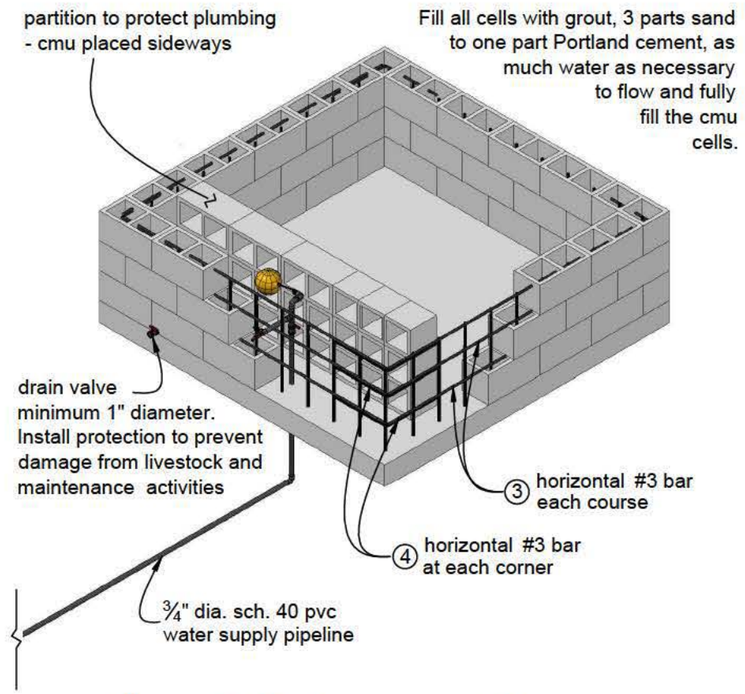
Plan View Slab (Floor)Reinforcement



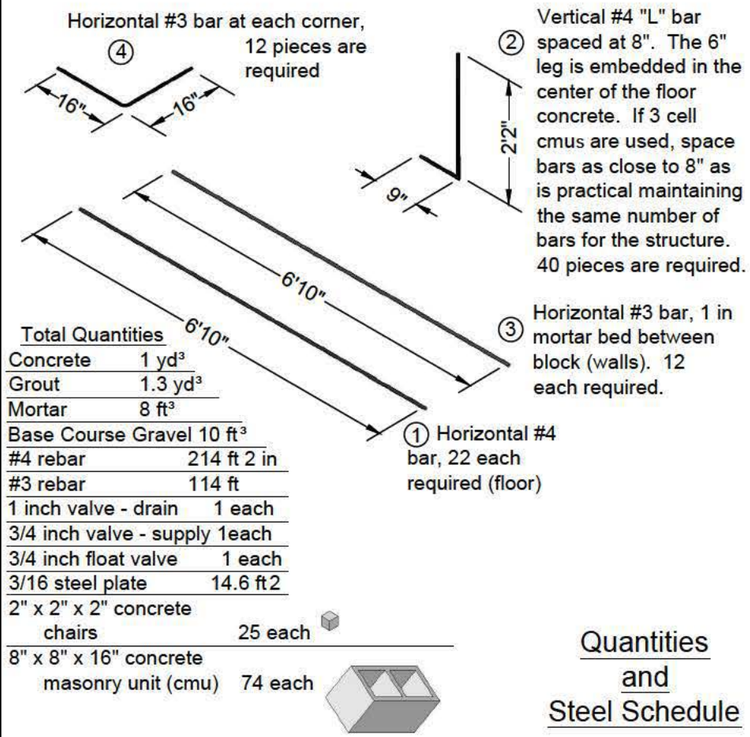
Concrete Slab and Vertical Reinforcement



Completed CMU Trough



Horizontal Reinforcement and Partition



Total Quantities	
Concrete	1 yd³
Grout	1.3 yd³
Mortar	8 ft³
Base Course Gravel	10 ft³
#4 rebar	214 ft 2 in
#3 rebar	114 ft
1 inch valve - drain	1 each
3/4 inch valve - supply	1each
3/4 inch float valve	1 each
3/16 steel plate	14.6 ft2
2" x 2" x 2" concrete chairs	25 each
8" x 8" x 16" concrete masonry unit (cmu)	74 each

Quantities and Steel Schedule

Date
Designed
Drawn
Checked
Approved
Title

530 Gallon Concrete Block Trough

Soil and Water Conservation District

Cooperating with the

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

File Name

Drawing No.

Sheet of