

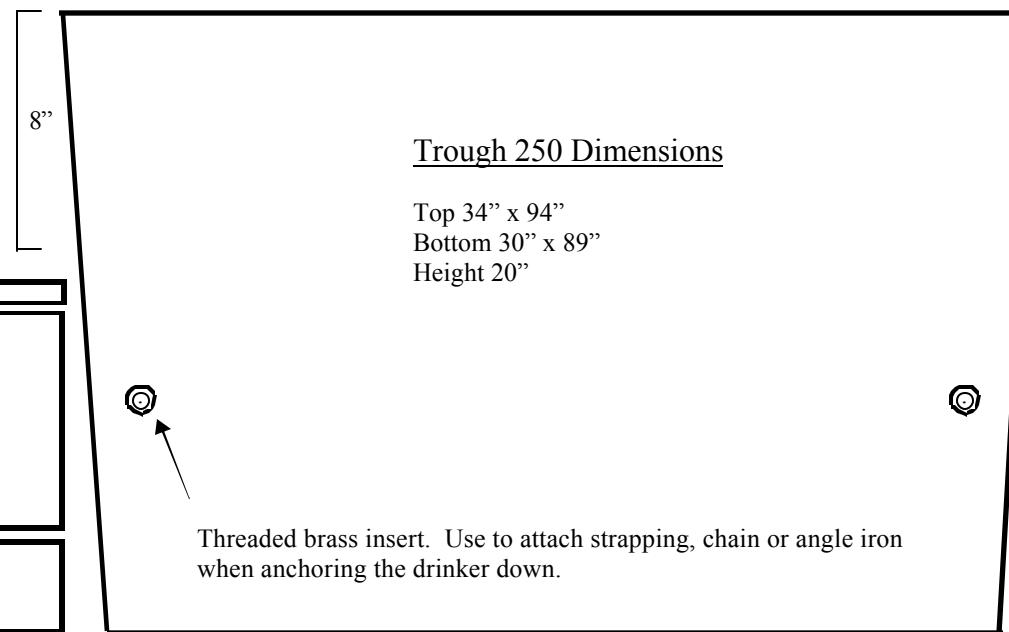
## Trough 250

### In-Ground Installation Tips

Side View

Minimum recommended height out of ground is 8"

Install footing and blocks at any level you choose.



#### Trough 250 Dimensions

Top 34" x 94"  
 Bottom 30" x 89"  
 Height 20"

Threaded brass insert. Use to attach strapping, chain or angle iron when anchoring the drinker down.

Concrete Top Cap  
1"-2" Thick

Bond Beam  
Cinder Block  
8" x 8" x 16"

Concrete Footing  
4" Thick 12" Wide

1/2" Rebar

Soil

When installing a trough into the ground, there are two concerns; 1) Compaction of the soil around the trough by large animals 2) the trough being lifted out of the ground due to soil saturation or outright flooding.

Traffic by large animals will eventually compact the dirt around the trough to the point where it can distort it out of shape. Also, amazingly enough, if the soil becomes oversaturated or flooding occurs, the trough may actually pop out of the ground. Therefore, it is suggested that you anchor the trough down. A sound block foundation can help you prevent both of the above issues and preserve the utility of the trough for a long time.

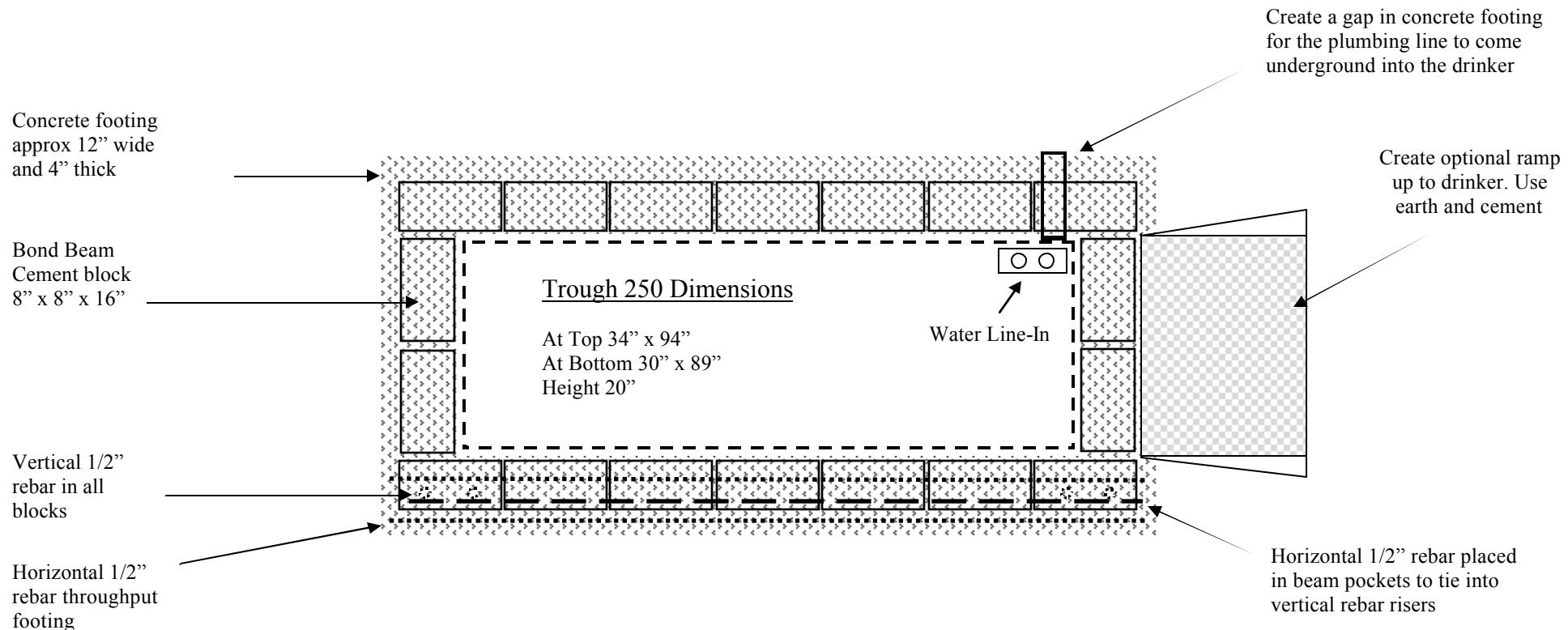
The first step is to decide how far out of the ground you want your trough to extend. Consider leaving at least 8" above ground. This will help to deter large animals from stepping inside and also reduce the amount of dirt that's kicked into the trough. Please remember that the escape ramp is not designed to be stepped on by large animals and is solely for ingress and egress of critters and small animals.

Next, decide how far up you want the blocks to extend next to the trough. The blocks can finish near the top lip of the tank, below ground level or anything in between. It really depends on how much excavation you want to do and the esthetics of having the blocks visible or not. The construction process is still the same.

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### Material List for Trough 250

- 28 Bond Beam Cement Blocks 8" x 8" x 16"
- 56 Pieces of 10"-12", 1/2" rebar for vertical risers
- Ample 1/2 rebar for footing reinforcement and tying to the vertical risers.
- Wood to frame in cement footing.
- About 22 cubic ft concrete for footing, filling blocks and topping the blocks. (does not include optional ramp) Some cement for grouting in between block.

### Basic Steps

- Excavate hole for the trough surrounded by a 12" footing. About 58" x 118"
- Frame and pour 12" footing.
  - Reinforce with rebar or metal mesh.
  - Be sure to create gap in footing to allow for the water line-in.
  - Install vertical rebar for blocks
  - Allow for either strapping, chain or angle iron for the anchor line onto drinker.
- Place blocks. Position 2 sticks of rebar into beam pockets and tie to the vertical rebar risers. Fill with concrete.
- Using a trowel grout spaces between the blocks.
- Then apply a 1"-2" concrete top cap on blocks.