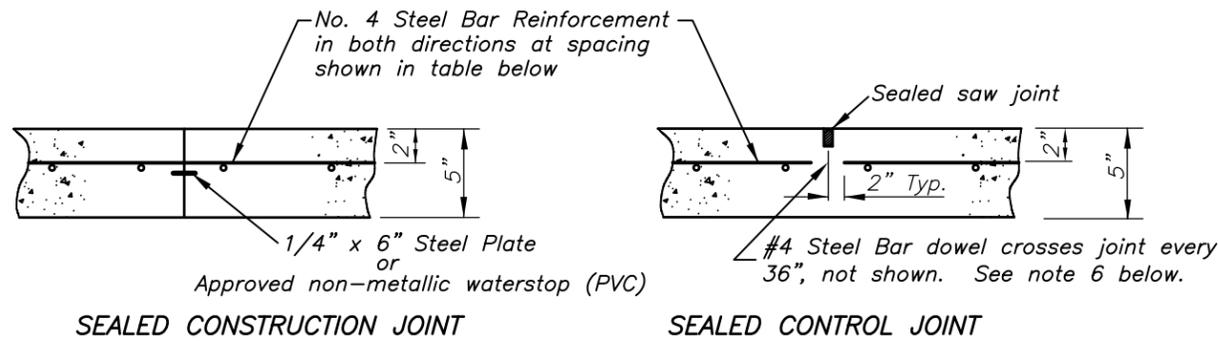


**RING FOUNDATION**

Footing Dimensions and Steel						
Wall Height	Tank Diameter	Footing Width	Footing Depth	Overhang	Radial Steel	Ring Steel
H	D	B	$h_f$	$C_{ext}$	$A_{S1}$	$A_{S2}$
8 ft.	all	30 in.	10 in.	12 in.	Place $A_{S1}$ at vertical wall steel ( $A_{SV}$ ) spacing. For spacing greater than 9 inches use #5 bars, otherwise use #4 bars (#5 bars could be replaced with #4 bars at $1/2 A_{SV}$ spacing).	#4 @ 8 in.
10 ft.	all	36 in.	12 in.	14 in.		#4 @ 6 in.
12 ft.	all	48 in.	12 in.	14 in.		#4 @ 6 in.
14 ft.	all	60 in.	12 in.	15 in.		#4 @ 6 in.

- For tanks 10 feet and deeper, required soil bearing pressure shall be at least 2,000 psf; tanks less than 10 feet require 1,500 psf.
- Place ring steel 3 inches above the footing bottom.
- Place radial steel on top of ring steel.



SEALED CONSTRUCTION JOINT

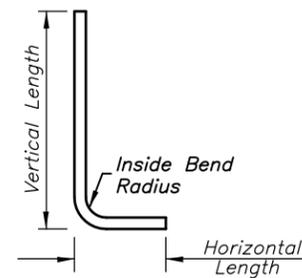
SEALED CONTROL JOINT

**TYPICAL FLOOR DETAILS**

**FLOOR STEEL**

Steel Used	Conversion	
	Grade 60 Control Joint Spacing	Factor Lin.ft./ft. <sup>2</sup> floor
#4 @ 18" C-C	90 ft.	1.333
#4 @ 12" C-C	120 ft.	2.00

- Control joints shall be sawed in the floor at equal spacings as shown in table. Sealed saw joint to be as shown in note 2 below.
- Sealed saw joints 1 1/4" deep are to be made as soon as concrete sets enough to not dislodge aggregate and before any drying stress cracks start to form. Fill saw joint with pourable polyurethane immediately.
- Dowel to be 30 inches long and embedded 15 inches in each direction. One side to be covered with snug fitting plastic pipe, rubber hose or equivalent as needed to prevent bond with concrete.

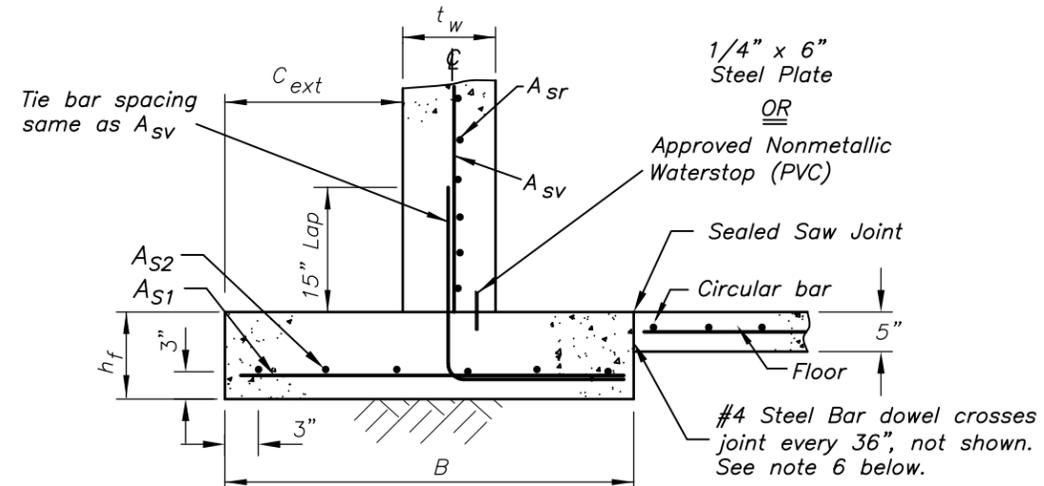


BAR DIMENSIONS		
Bar Size 1/	#4	#5
Vertical Length	26 in.	29 in.
Horizontal Length	8 in.	11 in.
Inside Bend Radius	1 1/2 in.	1 7/8 in.
Total Length	34 in.	40 in.

1/ Use the same bar size as  $A_{SV}$

**TIE BAR CONFIGURATION**

Place the 1st horizontal ring steel bar 1/2 the specified spacing above the footing.



WALL WITH STEEL IN ONE FACE

**WALL TO RING FOUNDATION DETAILS**

Date	
Designed	
Drawn	
Checked	
Approved	

CIRCULAR CONCRETE MANURE TANK



DRAFT  
NOT FOR  
CONSTRUCTION

File Name	
Drawing Name	29-N-625
Sheet	of