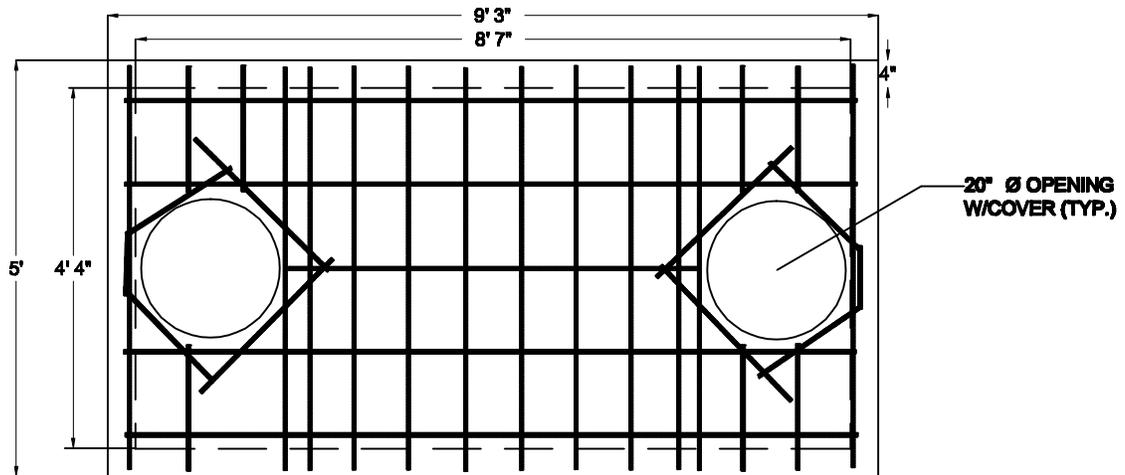


Sample H-20 Tank Structural Engineering

Available in all variations of 1000, 1250, 1500, 2000, 2500 Gallon Tanks



Vault Design: (Top and Bottom Slabs)

Design Load:	HS-20	(16-kips wheels)
Min. Earth Fill:	0.00'	
Max. Earth Fill:	4.00'	
Unit Wt. of Soil:	120 PCF	
Unit Wt. of Concrete:	150 PCF	
Watertable Depth:	Varies	(Below Grade-Min.)
Lateral Earth Pressure:	81.4 PCF	(See Following Sheets)
LL Surcharge:	80.0 PSF	(Ref. ASTM C857/C890: 0.005*Wheel Load)
Depth to Apply Surcharge:	8.0'	(Ref. ASTM C857/C890)
Unit Wt. of Water:	62.4 PCF	
Min. Buoyancy Safety Factor Req'd:	1.0	(See Buoyancy Analysis for Actual Safety Factor)
Concrete Strength, f'c:	6,000 PSI	
Reinforcing Yield Strength, fy:	60,000 PSI	
Load Factors:	1.6	(Live Load)
	1.2	(Dead Load) (Note, if no Live Load, set DL Factor to 1.4)
	1.6	(Earth Pressure)
Capacity Reduction:	0.9	(Flexure)
	0.75	(Shear)

ALLOWABLE BURY (Based on Water Table)	
WATER TABLE	ALLOWABLE EARTH FILL
0' - 0"	1' - 6"
1' - 0"	2' - 0"
2' - 0"	2' - 0"
3' - 0"	3' - 0"
DRY	4' - 0"

Structure Size:	Length	Width	Inside Ht.
	8.58'	4.33'	4.92'
Top Slab Thickness:			7.0"
Bottom Slab Thickness:			4.0"
Wall Thickness (Min.):			4.0"
Base Extension:			0"