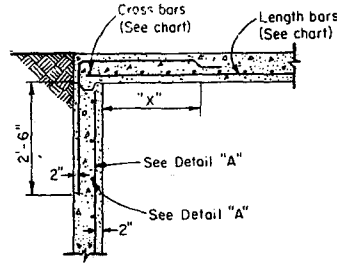
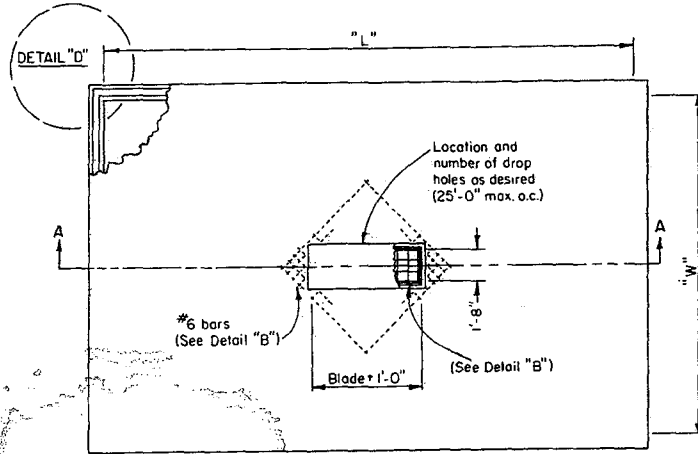


Tank Size				Length "L"	Dimensions			Tank Top Reinforcement				Cubic Yards (Volume of Concrete)			
Width "W"	Length "L"	Depth "D"	Gallon Capacity		"T"	"X"	"M"	Lengthways		Crossways		Base Slab	Walls	Tank Top	Total
								Bar Size	Spacing	Bar Size	Spacing				
12	As desired	10	900 x L	*Cow Days — 50.0	5 1/2"	1'-8"	1 1/2"	#4	8"	#6	7"	0.30 x L	0.5 x L	0.24 x L	1.04 x L
15	As desired	10	1125 x L	Cow Days — 62.5	8"	2'-2"	1 1/2"	#4	6"	#6	6"	0.35 x L	0.5 x L	0.42 x L	1.27 x L
18	As desired	10	1350 x L	Cow Days — 90.0	8"	2'-6"	1 1/2"	#4	6"	#7	6"	0.40 x L	0.5 x L	0.50 x L	1.40 x L
20	As desired	10	1500 x L	Cow Days — 83.3	9"	2'-10"	1 1/2"	#4	6"	#7	5"	0.45 x L	0.5 x L	0.62 x L	1.57 x L
24	As desired	10	1800 x L	Cow Days — 100.0	11"	3'-5"	2"	#5	8"	#8	5 1/2"	0.52 x L	0.5 x L	0.90 x L	1.92 x L

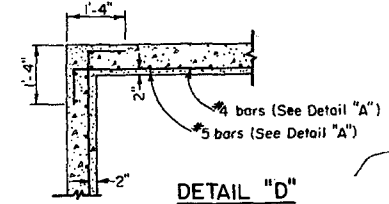
* Cow Days = Days Storage x Herd Size
(Based on: 18 gals./cow/day)



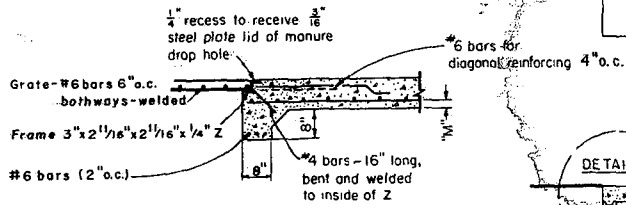
DETAIL "C"
1/2" = 1'-0"



PLAN VIEW
1/4" = 1'-0"

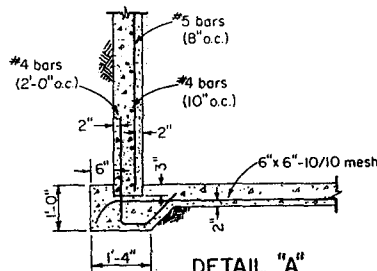


DETAIL "D"
1/2" = 1'-0"



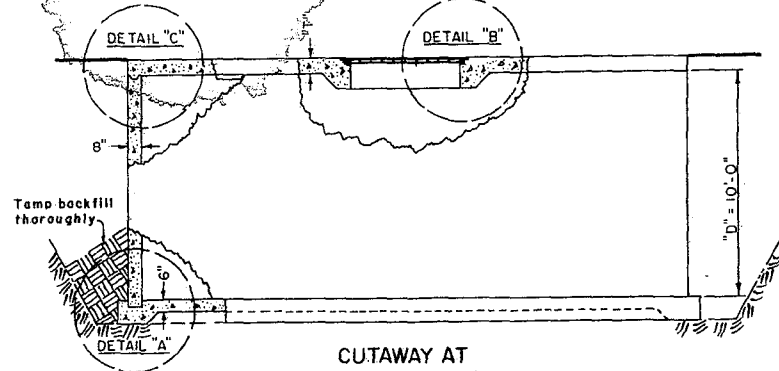
DETAIL "B"
1/2" = 1'-0"

Grate to be placed in, and spot-welded to Z frame, after form lumber is removed from interior of tank.



DETAIL "A"
1/2" = 1'-0"

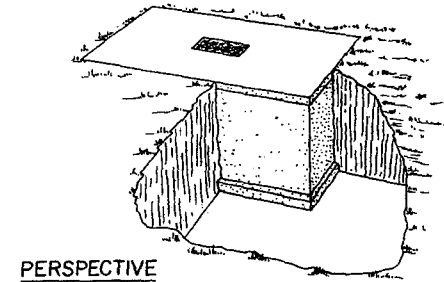
Tamp back fill thoroughly



CUTAWAY AT SECTION "A-A"
1/4" = 1'-0"

NOTES:

- 1) Design Live Load:
150 Lb./ft.², uniformly distributed
- 2) Concrete:
3,000 PSI at 28 days ($f_c = 1350$)
- 3) Steel:
 $f_s = 18,000$ PSI



PERSPECTIVE



LIQUID MANURE TANK

MASS., N.Y. '65 EX. 5987 SHEET 1 OF 1

Adapted from:
Univ. of Mass.
Ag. Eng. Dept.
Plan No. MC-4619
Cornell Univ.
Plan No. 820

Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans do not necessarily represent the most current technology or construction codes. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The LSU Agriculture Center, the Mid-West Plan Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.