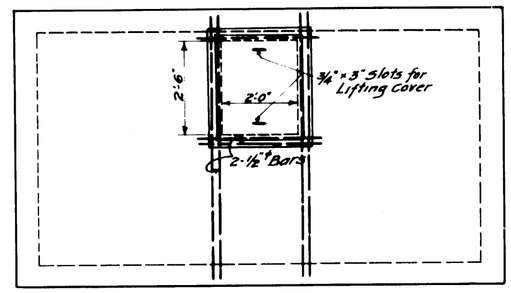
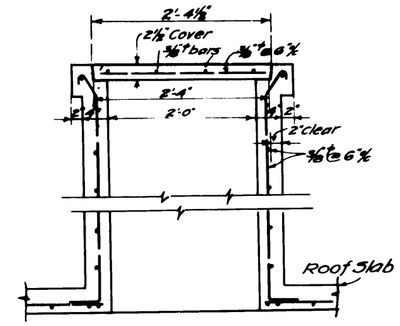
SEPTIC TANK DIMENSIONS & REINF.

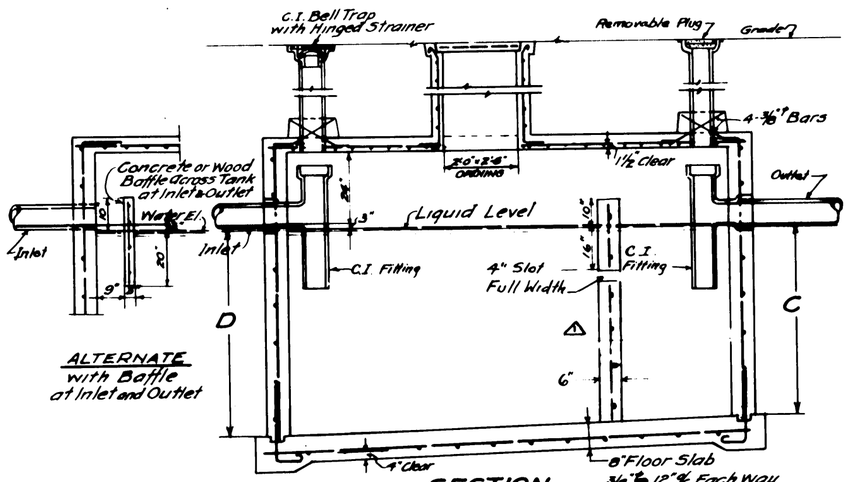
CAPACITY GALL'S	CU. FT.	+25%	A	B	C	D	WALL THICKNESS	WALL REINFORCEMENT FOR 1/2" ϕ HORIZ.	WALL REINFORCEMENT FOR 1/2" ϕ VERT.	WALL REINFORCEMENT FOR 3/8" ϕ HORIZ.	WALL REINFORCEMENT FOR 3/8" ϕ VERTICAL	ROOF SLAB SLAB THICKNESS	ROOF SLAB REINF. TRANSV. VERTICAL	ROOF SLAB REINF. LONGIT. TO DOME
500	67	83	6'-8"	3'-0"	4'-3"	4'-9"	7" WALL THICKNESS	1/2" ϕ @ 12" % ALL WALLS	1/2" ϕ @ 12" % ALL WALLS	3/8" ϕ @ 8" %	MIDDLE HALF OF WALL 3/8" ϕ @ 8" % END QUARTERS OF WALL 3/8" ϕ @ 12" %	3½"	3/8" ϕ @ 4" %	3/8" ϕ @ 6" % ALL SLABS
750	100	125	8'-2"	3'-8"	4'-3"	4'-9"						3½"		
1000	133	166	8'-8"	4'-1"	4'-9"	5'-3"				3/8" ϕ @ 6" %		3½"	3/8" ϕ @ 6" %	
1250	167	208	9'-9"	4'-6"	4'-9"	5'-3"						4"		
1500	200	250	10'-6"	4'-9"	5'-0"	5'-6"						4"	3/8" ϕ @ 5½" %	
1750	233	292	11'-6"	5'-0"	5'-0"	5'-6"						4½"	3/8" ϕ @ 6" %	
2000	266	332	12'-6"	5'-3"	5'-0	5'-6"						4½"	1/2" ϕ @ 6" %	3/8" ϕ @ 12" % ALL SLABS



ROOF SLAB PLAN



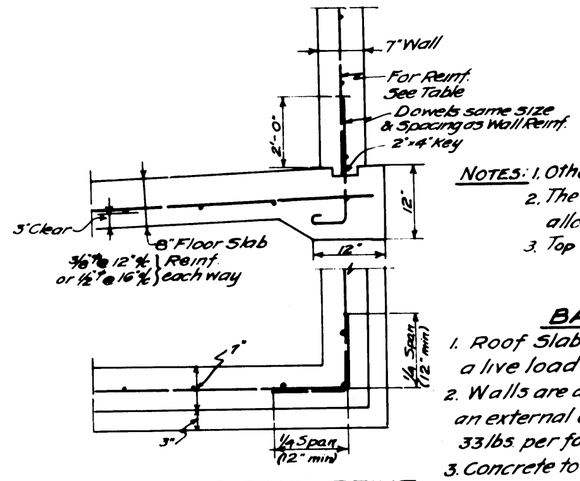
MANHOLE



ALTERNATE with Baffle at Inlet and Outlet

SECTION

NOTE: For Wall and Roof Slab Reinforcement see Table.

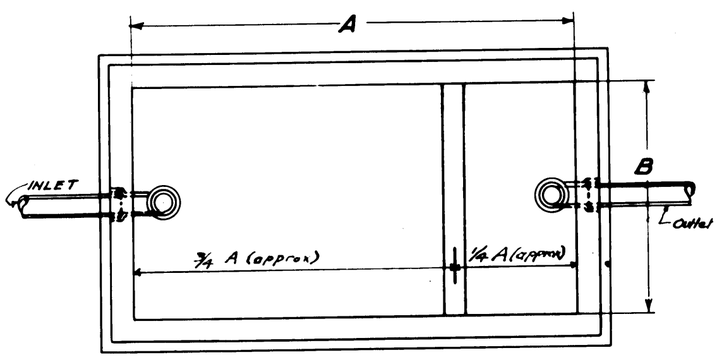


TYPICAL CORNER REINF.

NOTES: 1. Other designs may be used to suit local conditions.
2. The capacities indicated are exclusive of 25% allowance for sludge accumulation.
3. Top of tank may be at grade if conditions permit.

BASIS OF STRUCTURAL DESIGN:

1. Roof Slab is designed for an earth load of 300 lbs. plus a live load of 100 lbs. per square foot.
2. Walls are designed for the internal liquid pressure or for an external earth pressure equivalent to a fluid pressure of 33 lbs. per foot of depth, whichever load causes the max. stress.
3. Concrete to have a minimum strength of 3000 lbs. per sq. inch in 28 days, with $n = 10$; $f_s = 20000$ lbs and $f_c = 1350$ lbs. per sq. inch.



PLAN

REVISION	DATE	DESCRIPTION	BY
△	12 Aug. '54	Compartment dividing wall added. Dimensions "A" changed to accord.	JWF

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF ENGINEERS
MILITARY CONSTRUCTION ENGINEERING DIVISION
WASHINGTON, D. C.

DESIGNED BY: Max Shalowitz
TRACED BY: M.S.
CHECKED BY: JWF
SUBMITTED:
CHIEF SANITARY SECTION
APPROVED: Samuel Feagle
CHIEF SANITARY BRANCH

STANDARD SEPTIC TANKS

500- TO 2000-GALLON CAPACITIES

APPROVED: McD. D. Weinert
COL., C. E. CHIEF ENGINEERING DIVISION
DATE: 28 NOV. 1949

APPROVED FOR
DATE:

SCALE NONE
SPEC. NO.
DRAWING NUMBER 26-20-02
SHEET 1 OF 1