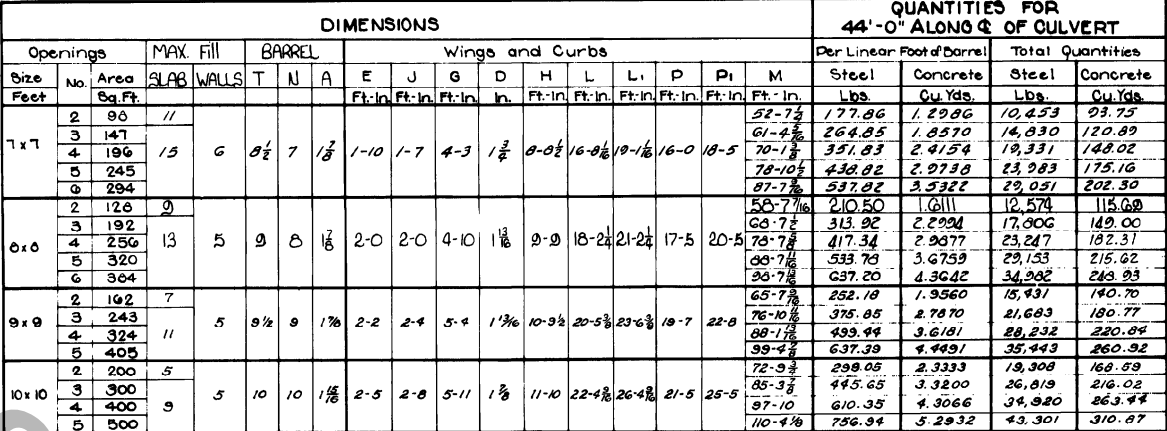




Size	A	B	C	D	E
7'x7'	5'-5 $\frac{5}{8}$ "	3'-8 $\frac{1}{2}$ "	3'-1 $\frac{1}{2}$ "	4'- $\frac{3}{4}$ "	6'- $\frac{3}{4}$ "
8'x8'	6'-3 $\frac{3}{8}$ "	4'-2 $\frac{3}{4}$ "	3'-6 $\frac{3}{4}$ "	5'- $\frac{1}{4}$ "	7'- $\frac{3}{8}$ "
9'x9'	7'-1 $\frac{1}{8}$ "	4'-9 $\frac{1}{2}$ "	4'-0 $\frac{1}{2}$ "	5'- $\frac{3}{4}$ "	8'- $\frac{1}{8}$ "
10'x10'	7'-10 $\frac{15}{16}$ "	5'-3 $\frac{3}{8}$ "	4'-5 $\frac{3}{8}$ "	6'- $\frac{1}{8}$ "	8'- $\frac{5}{8}$ "

DIMENSIONS																	QUANTITIES FOR 44'-0" ALONG & OF CULVERT						
Openings			MAX. FILL	BARREL			Wings and Curbs											Per Linear Foot of Barrel		Total Quantities			
Size Feet	No.	Area Sq. Ft.	SLAB	WALLS	T	N	A	E	F	J	G	D	H	L	L ₁	P	P ₁	M	Steel Lbs.	Concrete Cu Yds.	Steel Lbs.	Concrete Cu Yds.	
								Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.					
7x7	2	93	11																52-7½	177.94	1.2206	10,453	23.75
	3	147																	61-4½	264.85	1.8570	14,030	120.89
	4	196	15	G	8½	7	13½	1-10	1-7	4-3	1¾	8-0½	16-8½	19-1½	16-0	18-5			70-1½	351.83	2.4154	19,331	148.02
	5	245																	78-10½	430.82	2.9738	23,283	175.16
	6	294																	87-7½	537.22	3.3327	29,031	202.50
8x8	2	126	9																50-7½	210.50	1.6111	12,578	115.60
	3	192																	60-7½	313.92	2.2204	17,006	149.00
	4	256	13	5	9	8	16	2-0	2-0	4-10	1½	9-9	18-2½	21-2½	17-5	20-5			70-7½	417.34	2.9677	23,247	182.31
	5	320																	80-7½	533.70	3.7659	29,153	215.62
	6	364																	90-7½	637.20	4.3642	34,302	243.93
9x9	2	162	7																65-7½	252.18	1.9560	15,431	140.70
	3	243																	76-10½	375.85	2.7870	21,683	180.77
	4	324	11	5	9½	9	17½	2-2	2-4	5-4	1½	10-3½	20-5¾	23-6½	19-7	22-8			88-11½	499.44	3.6181	28,232	220.84
	5	405																	99-4½	637.39	4.4491	35,443	260.32
	6	486																	110-4½	756.94	5.2932	43,301	310.47
10x10	2	200	5																72-9½	298.05	2.3333	18,300	168.89
	3	300																	85-3½	445.65	3.3200	26,819	216.02
	4	400	9	5	10	10	17½	2-5	2-8	5-11	1½	11-10	22-4½	26-4½	21-5	25-5			97-10	610.35	4.3066	34,980	263.47
	5	500																	110-4½	756.94	5.2932	43,301	310.47
	6	600																	122-4½	937.80	6.5864	54,601	396.99

General Notes:
Construction Specifications: Latest Approved La. Dept.
of Highway Standard Specifications
Design Specifications: A. A. S. H. O. 1961 as Amended by
Int. Spec. 1964-
Live Load H.S. 20-44, or Military Loading, whichever is Greater
All Concrete to be Class "A"
Reinforcing Bars, Except Corrosion to have 3/4" Chamfer, Unless
Otherwise noted.
Reinforcement Shall be Billet-Steel A.S.T.M. A
A 615 or Rail-Steel A.S.T.M. A 616 or
Axle-Steel A.S.T.M. A 617
Dimensions Relating to Reinforcing Steel are to Bar
Centers.
A 1" - 6" Square of Plastic Filter Cloth (See Qualified
Products List) shall be placed in contact with Concrete
behind each Weep Hole, in addition to approx. 2 Cu. Ft.
of Concrete Sand.

Opening	Bar Size	R	X	Y
7' x 7'	#4	2' $\frac{1}{2}$ "	2'-7"	2'-5"
8' x 8'	#5	2' $\frac{13}{16}$ "	2'-10 $\frac{3}{4}$ "	2'-7"
9' x 9'	#5	2' $\frac{17}{16}$ "	2'-10 $\frac{3}{4}$ "	2'-9"
10' x 10'	#6	3' $\frac{3}{8}$ "	3'-1 $\frac{1}{2}$ "	3'-0"

STANDARD PLAN
MULTIPLE OPENINGS
REINFORCED CONCRETE BOX CULVERTS
STRAIGHT WINGS 60° CROSSING
2:1 SPILL SLOPE NORMAL TO CHANNEL
DATED October 25 1962 7' x 7' TO 10' x 10'

STATE OF LOUISIANA		
DEPARTMENT OF HIGHWAYS		
DESIGNED <u>G.A.H./M.Y.Y.</u>	DETAILED <u>H.P. ...</u>	TRACED <u>C. ...</u>
CHECKED <u>F.C. Marcum</u>	CHECKED <u>F.C. Marcum</u>	CHECKED <u>F.C. Marcum</u>
BRIDGE DESIGN SECTION		

[illegible]

① Includes 1-1'-6" Lap Splice.
 ② Includes 1-2'-2" Lap Splice.
 ③ Does not Include Lap Splice.
 When Bar Length Exceeds 40'-0" Add 1-2'-2" Lap Splice.
 ④ Includes one 2'-7" Lap Splice.

General Notes Cont'd
For Detail of Joints, See Std. Plan
C.M. - 48.

(A) #6 Bars X to be $\frac{3}{4}$ " ϕ Smooth and Greased for 1'-0" of Length

APPROVED BY: Dempsey D. White 1-5-78
CHIEF ENGINEER DATE

1'-0" of Length		2'-0" of Length		Rev General Notes		W.E.N.	
1-5-78	Rev. Weep Hole Note	W.N.	9-2-89	Added 315's @ 10' x 10"			
5-8-78	Rev Steel Curb Joints	W.N.	9-2-89	DIFORMED DOUBLE X TO SMOOTH			W.E.N.
2-20-78	Rev Slabs Intersect	W.N.	4-9-83	Added 3' G @ 8' x 8'			
			5-29-83	7' x 7'			W.N.
6-8-78	Rev General Notes for Steel	W.E.N.	DATE	DESCRIPTION			BY
6-3-78	Added Curbs Slope 1	W.E.N.					