



GENERAL NOTES

Construction Specifications: Latest Approved La. Dept. of Hwy. Standard Specifications.
 Design Specifications: A.A.S.H.O. 1961 as Amended by Int. Spec., 1964.
 Live Load: HS 20-44 or Military Loading, whichever is Greater.
 All Concrete to be Class "A".
 All Exposed Corners to Have 3/4" Chamfer, Unless Otherwise Noted.
 Reinforcement Shall be Billet-Steel A.S.T.M. 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. For Detail of Joints, See Std. Plan C.M.-48.

DIMENSIONS					QUANTITIES						
OPENINGS		MAX. FILL		WINGS & CURBS	PER LINEAR FT. OF BARREL		FOR 44'-0" OF CULVERT		OPENINGS		
Size	No.	Area	Slab	Wall	M	Steel	Concrete	Steel	Concrete	No.	Size
Feet		Sq. Ft.	Feet	Feet	Ft.-In.	Lbs.	Cu. Yds.	Lbs.	Cu. Yds.		Feet
5x4	2	40	21		38-5/8	109.51	0.7675	6133	49.97	2	5x4
	3	60			47-2 1/2	125.22	1.1026	8995	66.83	3	
	4	80	27	13	54-11 1/2	22092	1.4378	11945	83.69	4	
	5	100			62-9 1/2	27662	1.7729	15090	100.56	5	
	6	120			70-6 1/2	33233	2.1080	18291	117.42	6	
	G										

BILL OF REINFORCING STEEL FOR 44'-0" CULVERT																																																
BARREL REINFORCEMENT														WINGS AND CURBS REINFORCEMENT																																		
Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.																			
Feet		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.																				
5x4	2	84	12-0	11	4-4	90	1-9	50000	11-4	80	12-3/4	42	47-10	141	4-11	48	7-5 1/2	2	10-9	8	3-0	2	15-5	8	3-6	10	7-4	10	11-6	44	2-4	6	9-5	4	10-7	6	13-1	4	10-0	32	4-4	4	19-4	6	15-9	20	2-0	2
	3	72	17-6	200	4-4	148	1-9	50000	10-9	72	18-0 1/2	62	47-10	188	4-11	48	7-5 1/2	2	10-9	8	3-0	2	15-5	8	3-6	10	7-4	10	11-6	44	2-4	6	9-5	4	10-7	6	13-1	4	10-0	48	4-4	4	27-2	6	23-7	20	2-0	3
	4	58	23-0	426	4-4	200	1-9	50000	22-2	60	23-9 1/2	82	47-10	235	4-11	48	7-5 1/2	2	10-9	8	3-0	2	15-5	8	3-6	10	7-4	10	11-6	44	2-4	6	9-5	4	10-7	6	13-1	4	10-0	64	4-4	4	31-4	20	2-0	4		
	5	46	28-6	224	4-4	252	1-9	50000	27-7	48	29-7	102	47-10	282	4-11	48	7-5 1/2	2	10-9	8	3-0	2	15-5	8	3-6	10	7-4	10	11-6	44	2-4	6	9-5	4	10-7	6	13-1	4	10-0	78	4-4	4	44-7	6	39-1	20	2-0	5
	6	34	34-0	84	4-4	304	1-9	50000	33-0	34	35-4 1/2	122	47-10	324	4-11	48	7-5 1/2	2	10-9	8	3-0	2	15-5	8	3-6	10	7-4	10	11-6	44	2-4	6	9-5	4	10-7	6	13-1	4	10-0	94	4-4	4	52-4	6	48-9	20	2-0	6
	G																																															

① Includes 1'-1"-G" Lap Splice
 ② Includes 1'-1"-10" Lap Splice
 ③ *G Bars X to be 3/4" Smooth and Greased for 1'-0" of Length

C.C.S.M.5.R.45°-1

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

STANDARD PLAN
MULTIPLE OPENINGS
REINFORCED CONCRETE BOX CULVERTS
STRAIGHT WINGS 45° CROSSING
2:1 SPILL SLOPE NORMAL TO CHANNEL
2 THRU G - 5'x4'

DATED: Aug 28, 1967

STATE OF LOUISIANA
 DEPARTMENT OF HIGHWAYS

DESIGNED W.E.M.	DETAILED A.P. Booz	TRACED E.S. Johnson
CHECKED N.K.B.	CHECKED B.L. Burke	CHECKED W.E. Marcum
IN CHARGE OF		

DATE	DESCRIPTION	BY
1-5-78	Rev. Weep Hole Note	W.T.J.
5-30-78	Revised Spill Slope	W.T.J.
6-8-78	Rev. Gen. Notes for Sheet	W.E.M.