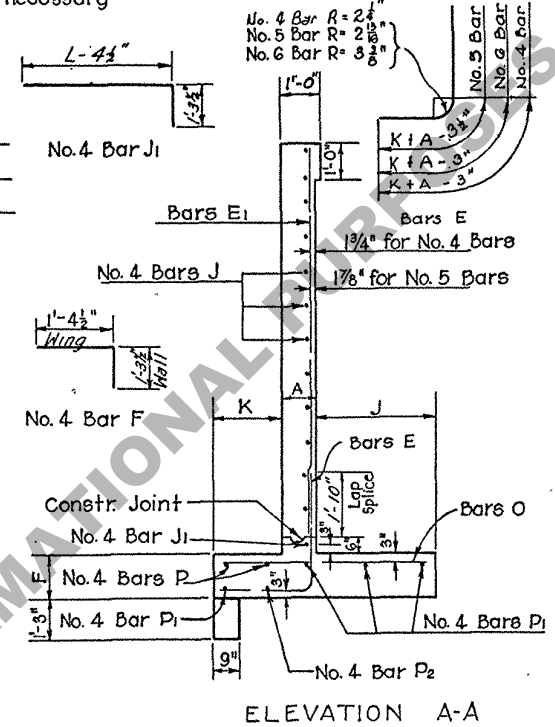
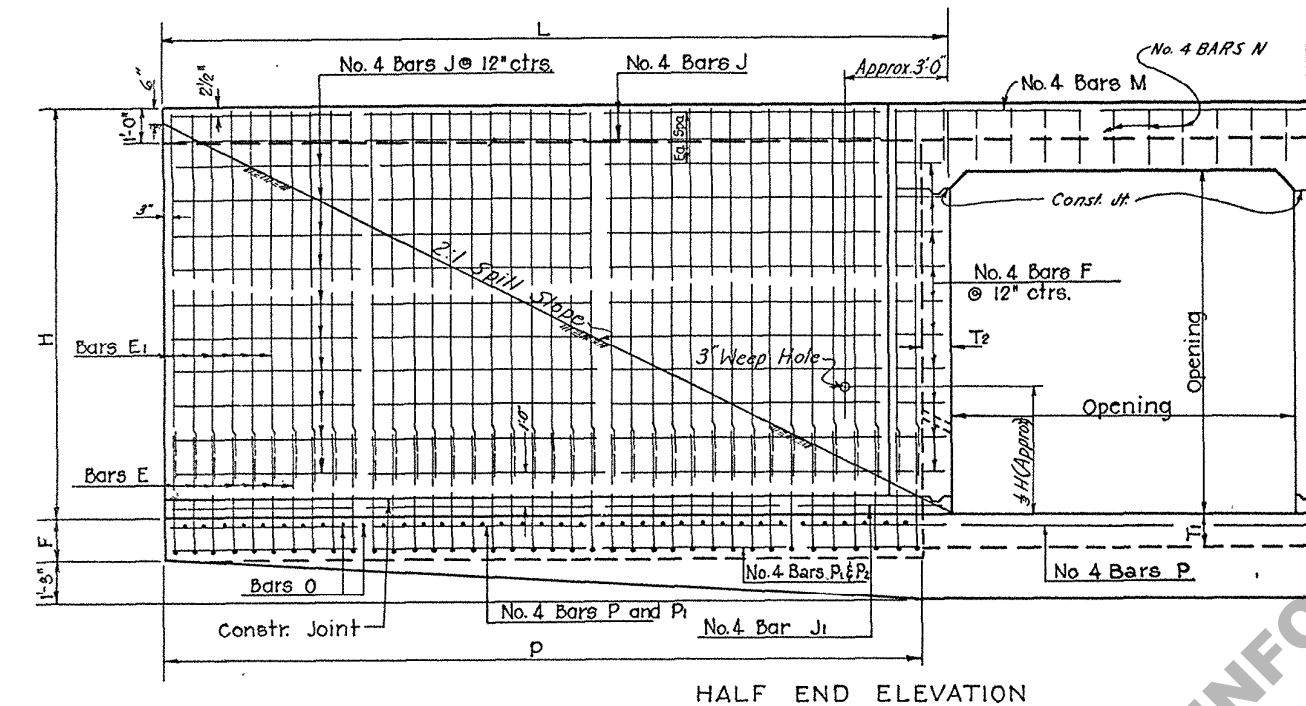
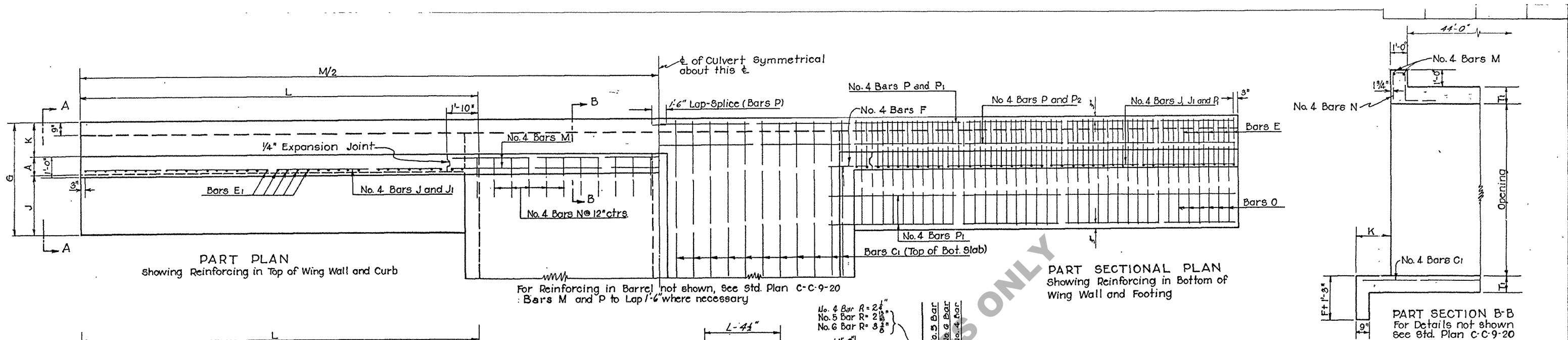




DIMENSIONS																	QUANTITIES				OPENINGS	
OPENINGS		X	BARREL		WINGS AND CURB												PER LIN. FT. OF BARREL		FOR 44"-O" CULVERT		No.	Size Feet
Size Feet	No.	Arco Sq. Ft.	Y ₁ Feet	T ₁ In.	T ₂ In.	A In.	K In.	J In.	G In.	L In.	H In.	F In.	M In.	P In.	STEEL LBS.	CONCRETE CU. YDS.	STEEL LBS.	CONCRETE CU. YDS.				
7x7	2	30	17	9	7	10	1-10	1-7	4-3	16-8	8-9	1-0	47-11	16-1	186.46	1.3472	10533	95.07	2	7x7		
	3	147	17	9	7	10	1-10	1-7	4-3	16-8	8-9	1-0	55-6	16-1	274.58	1.9289	14708	123.80	3			
	4	196	17	9	7	10	1-10	1-7	4-3	16-8	8-9	1-0	63-1	16-1	362.47	2.5108	18880	152.53	4			
	5	245	17	9	7	10	1-10	1-7	4-3	16-8	8-9	1-0	70-8	16-1	458.45	3.0925	23425	181.26	5			
	6	294	17	9	7	10	1-10	1-7	4-3	16-8	8-9	1-0	78-3	16-1	554.19	3.6743	27955	209.99	6			
	7	343	17	9	7	10	1-10	1-7	4-3	16-8	8-9	1-0	85-8	16-1	650.43	4.3561	33485	258.72	7			
8x8	2	128	15	9 1/2	8	10	1-6	3-2	5-6	18-7	9-9 1/2	1-0	53-10	17-11	220.55	1.6667	13200	118.99	2	8x8		
	3	192	15	9 1/2	8	10	1-6	3-2	5-6	18-7	9-9 1/2	1-0	62-6	17-11	325.41	2.3818	18119	153.99	3			
	4	256	15	9 1/2	8	10	1-6	3-2	5-6	18-7	9-9 1/2	1-0	71-2	17-11	430.02	3.0969	23019	188.99	4			
	5	320	15	9 1/2	8	10	1-6	3-2	5-6	18-7	9-9 1/2	1-0	79-10	17-11	531.89	3.8119	28719	223.99	5			
	6	384	15	9 1/2	8	10	1-6	3-2	5-6	18-7	9-9 1/2	1-0	88-6	17-11	636.50	4.5270	33626	258.99	6			
	7	448	15	9 1/2	8	10	1-6	3-2	5-6	18-7	9-9 1/2	1-0	97-2	17-11	741.11	5.6421	40526	313.99	7			
9x9	2	162	14	10 1/2	9	10	2-4	2-6	5-8	20-6	10-10 1/2	1-0	57-9	19-9	267.17	2.0810	15690	146.79	2	9x9		
	3	243	14	10 1/2	9	10	2-4	2-6	5-8	20-6	10-10 1/2	1-0	64-6	19-9	394.01	2.9722	21643	190.73	3			
	4	324	14	10 1/2	9	10	2-4	2-6	5-8	20-6	10-10 1/2	1-0	71-3	19-9	521.85	3.8634	28438	234.66	4			
	5	405	14	10 1/2	9	10	2-4	2-6	5-8	20-6	10-10 1/2	1-0	78-0	19-9	649.79	4.7546	34384	278.60	5			
	6	486	14	10 1/2	9	10	2-4	2-6	5-8	20-6	10-10 1/2	1-0	84-7	19-9	777.73	5.6458	41329	322.53	6			
	7	567	14	10 1/2	9	10	2-4	2-6	5-8	20-6	10-10 1/2	1-0	91-4	19-9	905.67	6.5369	47274	366.46	7			
10x10	2	200	15	11 1/2	10	12	2-0	3-6	6-6	23-0	11-11 1/2	1-3	66-10	22-2	340.81	2.5416	21143	191.20	2	10x10		
	3	300	15	11 1/2	10	12	2-0	3-6	6-6	23-0	11-11 1/2	1-3	77-8	22-2	503.56	3.6285	28769	244.46	3			
	4	400	15	11 1/2	10	12	2-0	3-6	6-6	23-0	11-11 1/2	1-3	88-6	22-2	666.31	4.7154	37418	297.73	4			
	5	500	15	11 1/2	10	12	2-0	3-6	6-6	23-0	11-11 1/2	1-3	99-4	22-2	829.06	5.8023	45223	350.99	5			
	6	600	15	11 1/2	10	12	2-0	3-6	6-6	23-0	11-11 1/2	1-3	110-2	22-2	991.81	6.8892	53928	404.26	6			
	7	700	15	11 1/2	10	12	2-0	3-6	6-6	23-0	11-11 1/2	1-3	121-0	22-2	1154.56	7.9761	62633	457.53	7			

GENERAL NOTES

Specifications: Latest approved La. Hwy. Dep't. Standard Specifications.

Design Specifications: For Slabs and Culvert Walls, See Std. Plan CC-9-20. For Wing Walls and Footings, A.A.S.H.O. 1949 as amended to June 1950.

Reinforcement shall be structural intermediate, or Hard Grade, A.S.T.M. A15 or Rail Steel, A.S.T.M. A16.

Concrete to be Class A.

All exposed corners to be chamfered 3/4".

For details relative to Weep Holes, Scouring, Bending Diagrams for Bars A, B and N, and any other information not shown see Std. Plan CC-9-20.

No. 4 Bars to be spliced 1'-6" where necessary.

OPENINGS		BARREL REINFORCEMENT														WING AND CURB REINFORCEMENT																																					
		No. 6 BARS A		No. 6 BARS A1		No. 6 BARS B		No. 4 BARS C		No. 4 BARS C1		BARS D		BARS E		BARS E1		No. 4 BARS F		No. 4 BARS J		No. 4 BARS J1		No. 4 BARS M		No. 4 BARS N		BARS O		No. 4 BARS P		No. 4 BARS P1		No. 4 BARS P2																			
Size	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.																	
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.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.																
7x7	2	84	16-10 1/2	13	84	5-1	13	86	17-3	13	86	23-7	12	92	25-5	12	86	20-7	8-2	8	86	80	5-4	10	86	80	8-1	10	28	2-8	12	36	14-6	12	4	17-7	4	25-3	46	5-1 1/2	12	86	76	3-10	10	8	28-4	16	17-5	4	15-8	3	7x7
	3	84	24-5 1/2	13	168	5-1	13	86	25-3	13	126	23-7	12	146	25-5	12	86	25-3	8-2	8	86	80	5-4	10	86	80	8-1	10	28	2-8	12	36	14-6	12	4	17-7	4	25-3	62	5-1 1/2	12	86	76	3-10	10	8	32-1	16	17-5	4	15-8	3	7x7
	4	84	32-0 1/2	13	252	5-1	13	86	33-2	13	166	23-7	12	206	25-5	12	86	33-2	8-2	8	86	80	5-4	10	86	80	8-1	10	28	2-8	12	36	14-6	12	4	17-7	4	25-3	76	5-1 1/2	12	86	76	3-10	10	8	35-1	16	17-5	4	15-8	3	7x7
	5	84	39-7 1/2	13	336	5-1	13	86	40-0	13	206	23-7	12	246	25-5	12	86	40-0	8-2	8	86	80	5-4	10	86	80	8-1	10	28	2-8	12	36	14-6	12	4	17-7	4	25-3	92	5-1 1/2	12	86	76	3-10	10	8	38-1	16	17-5	4	15-8	3	7x7
	6	84	46-5 1/2	13	420	5-1	13	86	47-1 1/2	13	246	23-7	12	286	25-5	12	86	47-1 1/2	8-2	8	86	80	5-4	10	86	80	8-1	10	28	2-8	12	36	14-6	12	4	17-7	4	25-3	108	5-1 1/2	12	86	76	3-10	10	8	41-1	16	17-5	4	15-8	3	7x7
	2	90	17-1 1/2	12	90	5-8	12	92	19-6	12	96	23-4	12	102	24-10	12	86	23-4	9-3	8	86	80	5-4	10	86	80	8-1	10	32	2-8	12	40	16-5	12	4	19-6	4	28-5	54	5-2 1/2	12	86	76	3-10	10	8	31-10	16	19-3	4	17-5	3	8x8
	3	90	27-3 1/2	12	180	5-8	12	92	28-7	12	140	23-4	12	160	24-10	12	86	28-7	9-3	8	86	80	5-4	10	86	80	8-1	10	32	2-8	12	40	16-5	12	4	19-6	4	28-5	70	5-2 1/2	12	86	76	3-10	10	8	34-1	16	19-3	4	17-5	3	8x8
	4	90	36-5 1/2	12	270	5-8	12	92	37-7	12	180	23-4	12	200	24-10	12	86	37-7	9-3	8	86	80	5-4	10	86	80	8-1	10	32	2-8	12	40	16-5	12	4	19-6	4	28-5	86	5-2 1/2	12	86	76	3-10	10	8	37-1	16	19-3	4	17-5	3	8x8
	5	90	47-1 1/2	12	360	5-8	12	92	49-6	12	220	23-4	12	240	24-10	12	86	49-6	9-3	8	86	80	5-4	10	86	80	8-1	10	32	2-8	12	40	16-5	12	4	19-6	4	28-5	102	5-2 1/2	12	86	76	3-10	10	8	40-1	16	19-3	4	17-5	3	8x8
	6	90	56-7 1/2	12	450	5-8	12	92	58-6	12	272	23-4	12	292	24-10	12	86	58-6	9-3	8	86	80	5-4	10	86	80	8-1	10	32	2-8	12	40	16-5	12	4	19-6	4	28-5	118	5-2 1/2	12	86	76	3-10	10	8	43-1	16	19-3	4	17-5	3	8x8
	2	98	21-4 1/2	11	98	6-3	11	100	21-10	11	106	23-9	12	112	24-10	12	86	21-10	10-5	10	86	80	5-4	10	86	80	8-1	10	36	2-8	12	44	18-4	12	4	21-5	4	31-7	60	5-4 1/2	12	86	76	3-10	10	8	35-4	16	21-1	4	19-3	3	9x9
	3	98	28-4 1/2	11	196	6-3	11	100	28-1	11	154	23-9	12	160	24-10	12	86	28-1	10-5	10	86	80	5-4	10	86	80	8-1	10	36	2-8	12	44	18-4	12	4	21-5	4	31-7	76	5-4 1/2	12	86	76	3-10	10	8	38-1	16	21-1	4	19-3	3	9x9
	4	98	35-6 1/2	11	294	6-3	11	100	35-1	11	202	23-9	12	176	24-10	12	86	35-1	10-5	10	86	80	5-4	10	86	80	8-1	10	36	2-8	12	44	18-4	12	4	21-5	4	31-7	92	5-4 1/2	12	86	76	3-10	10	8	41-1	16	21-1	4	19-3	3	9x9
	5	98	45-5 1/2	11	392	6-3	11	100	45-4	11	250	23-9	12	194	24-10	12	86	45-4	10-5	10	86	80	5-4	10	86	80	8-1	10	36	2-8	12	44	18-4	12	4	21-5	4	31-7	108	5-4 1/2	12	86	76	3-10	10	8	44-1	16	21-1	4	19-3	3	9x9
	2	120	28-7 1/2	9	120	6-10	9	118	24-2	9	118	24-2	12	144	25-4	12	86	118	11-7	9	86	152	5-11	7	86	152	10-8	7	40	2-8	12	48	20-10	12	4	23-11	4	23-11	44	5-6 1/2	12	86	148	6-0	7	8	34-0	16	23-6	4	21-8	2	10x10
	3	120	34-5 1/2	9	240	6-10	9	122	35-7	9	168	23-4	12	164	25-4	12	86	244	11-7	9	86	152	5-11	7	86	152	10-8	7	40	2-8	12	48	20-10	12	4	23-11	4	23-11	66	5-6 1/2	12	86	148	6-0	7	8	37-4	16	23-6	4	21-8	3	10x10
	4	120	48-1 1/2	9	360	6-10	9	122	49-9	9	220	23-4	12	204	25-4	12	86	304	11-7	9	86	152	5-11	7	86	152	10-8	7	40	2-8	12	48	20-10	12	4	23-11	4	23-11	88	5-6 1/2	12	86	148	6-0	7	12	30-5	16	23-6	4	21-8	4	10x10
	5	120	59-11 1/2	9	480	6-10	9	122	61-2	9	272	23-4	12	104	25-4	12	86	366	11-7	9	86	152	5-11	7	86	152	10-8	7	40	2-8	12	48	20-10	12	4	23-11	4	23-11	110	5-6 1/2	12	86	148	6-0	7	12	34-0	16	23-6	4	21-8	5	10x10