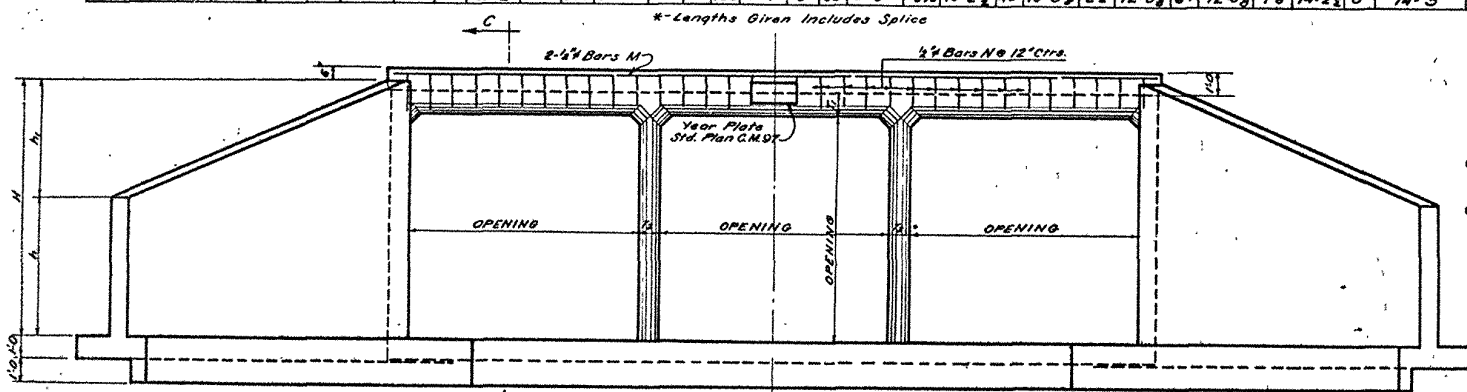
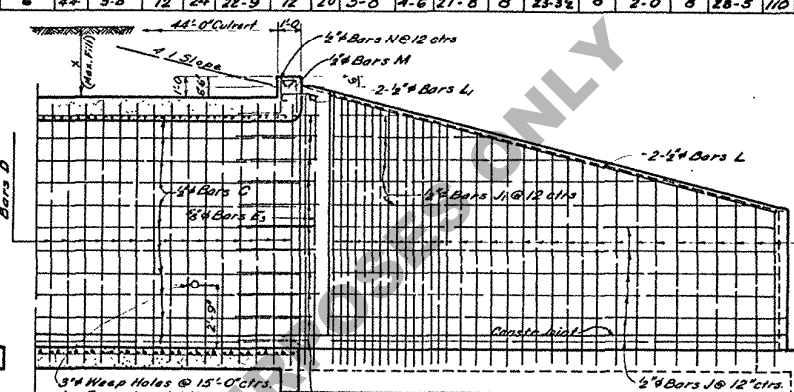
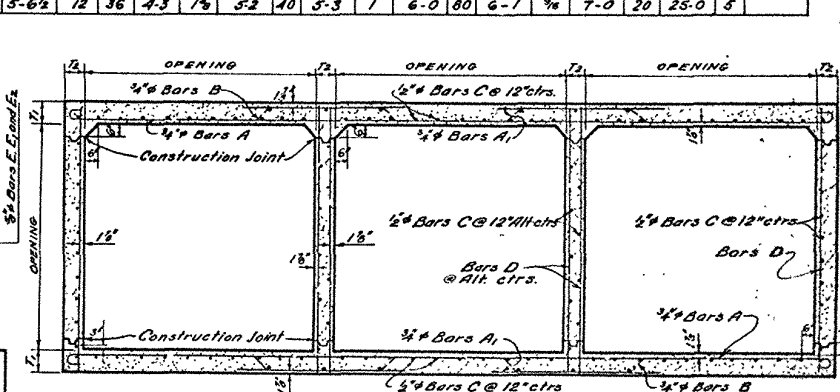




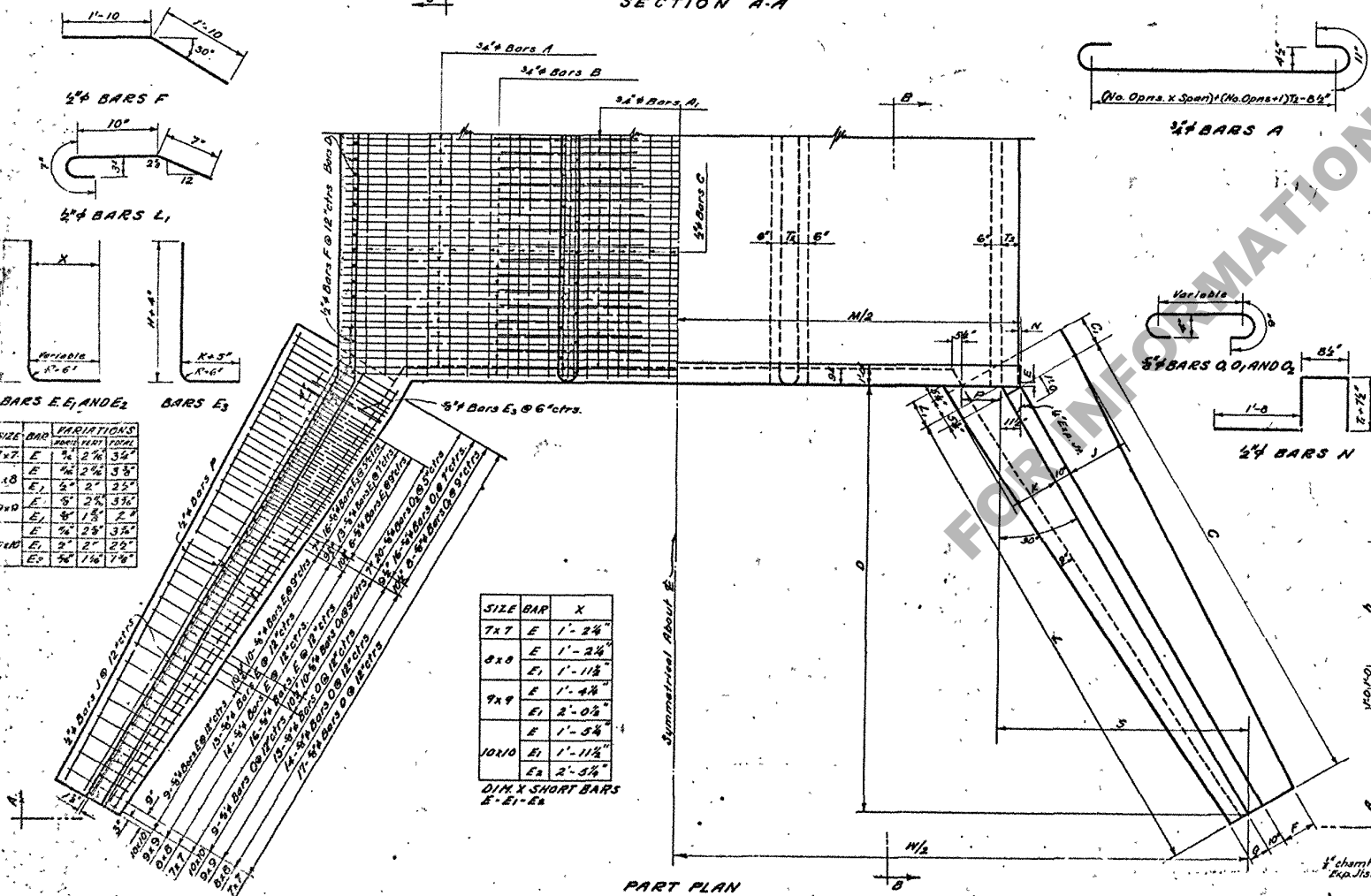
SECTION A-A



SECTION B-B

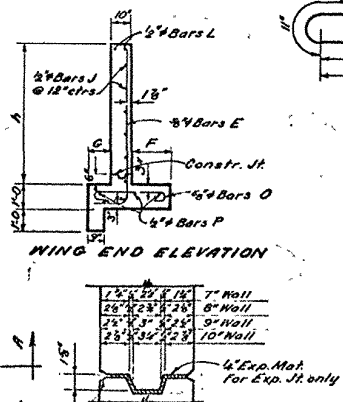


SECTION THRU BARREL

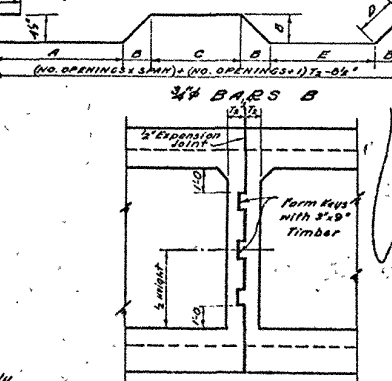


PART PLAN

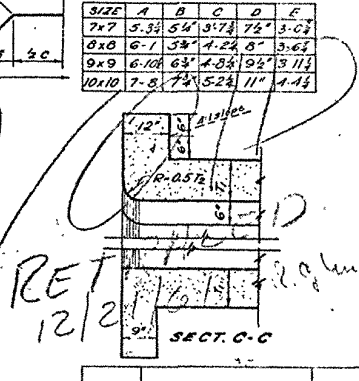
DIMENSIONS																												QUANTITIES				OPENINGS	
OPENINGS		X	BARREL	WINGS AND CURB																				PER LIN. FT. BARREL		FOR 44'-0" CUL. PER							
SIZE	NO	AREA	MAX.	T ₁	T ₂	H	D	S	L	L ₁	C	C ₁	H ₁	E	N	M	W	P	F	G	J	K	STEEL	CONCRETE	STEEL	CONCRETE	NO	SIZE					
FEET		SQ. FT.	FEET	IN.	IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	IN.	IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	LBS.	CU. YDS.	LBS.	CU. YDS.		FEET				
7x7	2	90	17	9	7	8-3	15 3/4	8-10 1/2	17-8 1/2	0-11	17-2 1/2	0-11 1/2	4-5	3-10	7 1/2	4 1/2	16-6	32-3 1/2	0-1 1/2	1-2	0-9	2-3	1-7	186.69	1.34	72	10401	39.95	2				
	3	147	17	9	7	8-3	15 3/4	8-10 1/2	17-8 1/2	0-11	17-2 1/2	0-11 1/2	4-5	3-10	7 1/2	4 1/2	24-1	39-10 1/2	0-1 1/2	1-2	0-9	2-3	1-7	275.06	1.9289	145.46	117.77	3					
	4	196	17	9	7	8-3	15 3/4	8-10 1/2	17-8 1/2	0-11	17-2 1/2	0-11 1/2	4-5	3-10	7 1/2	4 1/2	31-5	47-54	0-1 1/2	1-2	0-9	2-3	1-7	363.17	2.5108	166.85	145.60	4	7x7				
	5	245	17	9	7	8-3	15 3/4	8-10 1/2	17-8 1/2	0-11	17-2 1/2	0-11 1/2	4-5	3-10	7 1/2	4 1/2	39-3	58-60	0-1 1/2	1-2	0-9	2-3	1-7	450.38	3.0925	231.26	175.42	5					
	6	294	17	9	7	8-3	15 3/4	8-10 1/2	17-8 1/2	0-11	17-2 1/2	0-11 1/2	4-5	3-10	7 1/2	4 1/2	46-10	62-74	0-1 1/2	1-2	0-9	2-3	1-7	555.36	3.6743	276.28	201.24	6					
	7	128	15	9 1/2	8	9-3 1/2	17-3	9-11 1/2	19-11	1-0 1/4	19-5 1/4	1-1 1/4	4-1 1/2	4-3 1/2	6	3 1/2	18-7	36-7	1-3	1-6	0-9	2-6	1-10	220.55	1.6667	124.38	111.84	2					
8x8	3	192	15	9 1/2	8	9-3 1/2	17-3	9-11 1/2	19-11	1-0 1/4	19-5 1/4	1-1 1/4	4-1 1/2	4-3 1/2	6	3 1/2	25-3	45-3	1-3	1-6	0-9	2-6	1-10	325.41	2.3818	173.34	154.52	3					
	4	256	15	9 1/2	8	9-3 1/2	17-3	9-11 1/2	19-11	1-0 1/4	19-5 1/4	1-1 1/4	4-1 1/2	4-3 1/2	6	3 1/2	35-11	53-11	1-3	1-6	0-9	2-6	1-10	430.02	3.0969	222.12	179.50	4	8x8				
	5	320	15	9 1/2	8	9-3 1/2	17-3	9-11 1/2	19-11	1-0 1/4	19-5 1/4	1-1 1/4	4-1 1/2	4-3 1/2	6	3 1/2	44-7	62-7	1-3	1-6	0-9	2-6	1-10	551.89	3.8119	278.97	213.57	5					
	6	384	15	9 1/2	8	9-3 1/2	17-3	9-11 1/2	19-11	1-0 1/4	19-5 1/4	1-1 1/4	4-1 1/2	4-3 1/2	6	3 1/2	53-3	71-3	1-3	1-6	0-9	2-6	1-10	668.50	4.5270	327.71	247.64	6					
	7	162	14	10 1/2	9	10-4 1/2	19-3 1/2	11-14	22-3	1-2 1/2	21-9 1/2	1-2 1/2	5-6 1/2	4-9 1/2	4 1/2	2 1/2	20-8	41-0	1-6 1/2	1-6	0-11	2-9	2-1	266.89	2.0810	152.81	157.71	2					
	8	243	14	10 1/2	9	10-4 1/2	19-3 1/2	11-14	22-3	1-2 1/2	21-9 1/2	1-2 1/2	5-6 1/2	4-9 1/2	4 1/2	2 1/2	30-5	50-9	1-6 1/2	1-6	0-11	2-9	2-1	339.46	2.9722	211.81	179.98	3	9x9				
9x9	4	324	14	10 1/2	9	10-4 1/2	19-3 1/2	11-14	22-3	1-2 1/2	21-9 1/2	1-2 1/2	5-6 1/2	4-9 1/2	4 1/2	2 1/2	40-2	60-6	1-6 1/2	1-6	0-11	2-9	2-1	538.33	3.8634	279.12	222.24	4					
	5	405	14	10 1/2	9	10-4 1/2	19-3 1/2	11-14	22-3	1-2 1/2	21-9 1/2	1-2 1/2	5-6 1/2	4-9 1/2	4 1/2	2 1/2	49-11	70-3	1-6 1/2	1-6	0-11	2-9	2-1	664.90	4.7546	338.10	264.50	5					
	2	200	15	11 1/2	10	11-5 1/2	21-3 1/2	12-3 1/2	24-6 1/2	1-4 1/2	24-1	1-5 1/4	6-1 1/2	5-3 1/2	2 1/2	1 1/2	22-9	45-4 1/2	1-11 1/2	1-8	1-0	3-0	2-5	340.81	2.5416	197.99	167.28	2					
	3	300	15	11 1/2	10	11-5 1/2	21-3 1/2	12-3 1/2	24-6 1/2	1-4 1/2	24-1	1-5 1/4	6-1 1/2	5-3 1/2	2 1/2	1 1/2	33-7	56-2 1/2	1-11 1/2	1-8	1-0	3-0	2-5	503.56	3.6285	273.50	218.62	3					
	4	400	15	11 1/2	10	11-5 1/2	21-3 1/2	12-3 1/2	24-6 1/2	1-4 1/2	24-1	1-5 1/4	6-1 1/2	5-3 1/2	2 1/2	1 1/2	44-5	67-0 1/2	1-11 1/2	1-8	1-0	3-0	2-5	688.63	4.7154	359.60	269.96	4	10x10				
	5	500	15	11 1/2	10	11-5 1/2	21-3 1/2	12-3 1/2	24-6 1/2	1-4 1/2	24-1	1-5 1/4	6-1 1/2	5-3 1/2	2 1/2	1 1/2	55-3	77-10 1/2	1-11 1/2	1-8	1-0	3-0	2-5	855.36	5.8023	473.91	321.30	5					



KEY DETAILS
FOR EXPANSION AND
CONSTRUCTION JOINTS



EXPANSION JOINT DETAIL



SECRET

GENERAL NOTES
Specifications latest approved in Hwy. Dept. Std. Specs.
Design Specifications: AASHTO, 1941 H20-S16 Loading
All Concrete to be Class "R".
Dimensions to Reinforcing Steel are to Bar centers.
All exposed Corners to be chamfered 3".

Place about 1 cu. ft. of Large Size Gravel or Loose
Rock behind and around each weep hole.
When culvert is located at a site subject to scour, the
curtain walls shall be made deeper, or rip rap placed
around inside face of curtain walls to prevent scouring.

STANDARD PLAN
MULTIPLE OPENINGS
REINFORCED CONCRETE BOX CULVERT
1x7' - 8'x 8' - 9'x 9' - 10'x 10'
4:1 SLOPE

DATE 06/27/1970

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED	DETAILED <u>Hooten</u>	TRACKED <u>O. Hooten</u>
CHECKED <u>Hooten</u>	CHECKED <u>S. J.</u>	CHECKED <u>Hooten</u>
IN CHARGE <u>Hooten</u>		HEAD BRIDGE DRAFTSMAN