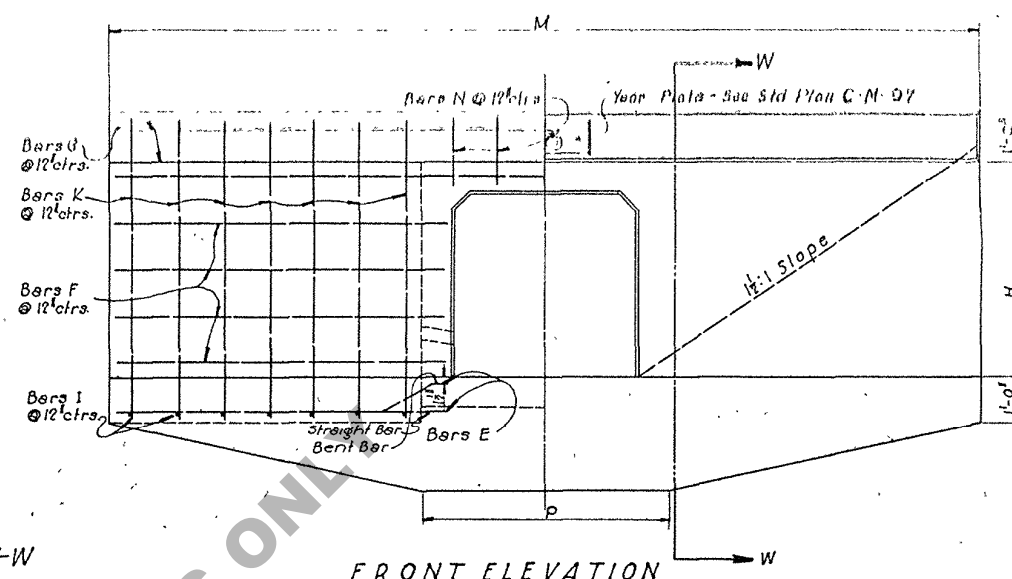
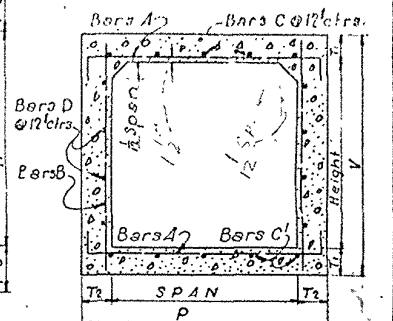


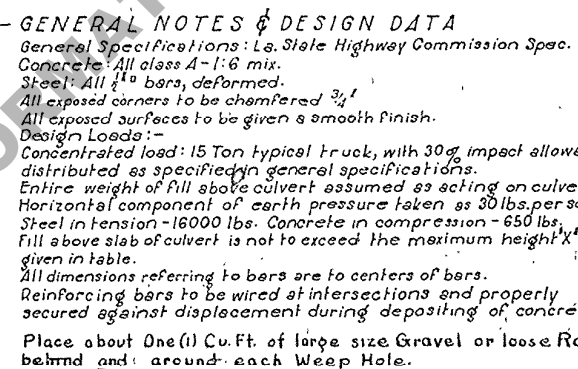
HALF SIDE ELEVATION



FRONT ELEVATION



SECTION OF BARREL



General Specifications: La. State Highway Commission Spec.
Concrete: All class A-1'6 mix.
Steel: All #10 bars, deformed.
All exposed corners to be chamfered $\frac{3}{4}$ "
All exposed surfaces to be given a smooth finish.
Design Loads:-
Concentrated load: 15 Ton typical truck, with 30% impact allowed distributed as specified in general specifications.
Entire weight of all above culvert assumed as acting on culvert.
Horizontal component of earth pressure taken as 30 lbs. per sq. ft.
Steel in tension - 16000 lbs. Concrete in compression - 6500 lbs.
Fill above slab of culvert is not to exceed the maximum height given in table.
All dimensions referring to bars are to centers of bars.
Reinforcing bars to be wired at intersections and properly secured against displacement during depositing of concrete.
Place about One (1) Cu. Ft. of large size Gravel or loose Rock behind and around each Weep Hole.

COMPLETE STEEL SCHEDULE FOR 24'-0" CULVERT																																		
OPENING SPAN	CLEAR HEIGHT	BARS A			BARS B			BARS C			BARS C'			BARS D			BARS E			BARS F			BARS G			BARS K			BARS N			BARS I		
		Length FT. IN.	No.	Spacing IN.	Length FT. IN.	No.	Spacing IN.	Length FT. IN.	No.	Spacing IN.	Length FT. IN.	No.	Spacing IN.	Length FT. IN.	No.	Spacing IN.	Length FT. IN.	No.	Spacing IN.	Length FT. IN.	No.	Spacing IN.	Length FT. IN.	No.	Spacing IN.	Length FT. IN.	No.	Spacing IN.	Length FT. IN.	No.	Spacing IN.			
2	2'-0	3-9	77	8	2'-9	52		25-1	3	26-5	3	29-1	4	4-3	8	4-3	8	10-9	4	4-3	16	1-3	6	1-5	16									
	2'-0	4-9	88	7	2'-9	52		25-1	4	26-5	4	29-1	4	4-3	8	4-3	8	11-9	4	4-3	16	1-3	8	1-5	16									
3	2'-6	4-9	88	7	3-3	52		25-1	4	26-5	4	29-1	4	5-0	8	5-0	8	13-3	4	4-9	20	1-3	8	1-5	20									
	3'-0	4-9	88	7	3-9	52		25-5	4	26-9	4	29-5	6	5-9	8	5-9	12	14-9	4	5-3	24	1-3	8	1-9	24									
4	2'-0	5-9	103	6	2-11	52		25-1	5	26-5	5	29-1	4	4-3	8	4-3	8	12-9	4	4-4	16	1-4	10	1-5	16									
	2'-6	5-9	103	6	3-5	52		25-1	5	26-5	5	29-1	4	5-0	8	5-0	8	14-3	4	4-10	20	1-4	10	1-5	20									
	3'-0	5-9	103	6	3-11	52		25-5	5	26-9	5	29-5	6	5-9	8	5-9	12	15-9	4	5-4	24	1-4	10	1-9	24									
	4'-0	6-1	103	6	4-11	52		25-5	5	26-9	5	29-5	8	7-3	8	7-3	16	18-9	4	6-4	28	1-4	10	1-11	28									
5	2'-0	6-9	103	6	3-0	52		25-1	6	26-5	6	29-1	4	4-3	8	4-3	8	13-9	4	4-4	16	1-4	12	1-5	16									
	2'-6	6-9	103	6	3-6	52		25-1	6	26-5	6	29-1	4	5-0	8	5-0	8	15-3	4	4-10	20	1-4	12	1-5	20									
	3'-0	6-9	103	6	4-0	52		25-5	6	26-9	6	29-5	6	5-9	8	5-9	12	16-9	4	5-4	24	1-4	12	1-9	24									
	4'-0	7-1	103	6	5-0	52		25-5	6	26-9	6	29-5	8	7-3	8	7-3	16	19-9	4	6-4	28	1-4	12	1-11	28									
	5'-0	7-1	103	6	6-0	52		25-5	6	26-9	6	29-5	10	8-9	8	8-9	20	21-9	4	7-4	36	1-4	12	2-1	36									

PER LIN FT. BARREL TOTAL QUANTITIES TWO HEADWALLS

DIMENSIONS & QUANTITIES FOR CUR & COVER										STEEL		CONCRETE		TOTAL QUANTITIES FOR HEADWORKS			
SPAN HEIGHT AREA		T ₁	T ₂	M	H	A	B	X	V	P	STEEL	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE	
FT.	FT-IN.	SQ. FT.	IN.	IN.	FT-IN.	FT-IN.	IN.	FT-IN.	FT.	FT-IN.	FT-IN.	POUNDS	CU. YDS.	POUNDS	CU. YDS.	POUNDS	CU. YDS.
2	2-0	4.0	6	6	11-0	2-6	8	1-8	12	3-0	3-0	22.74	1862	774.99	8.0384	225.29	3.5693
	2-0	6.0	6	6	12-0	2-6	8	1-8	12	3-0	4-0	28.72	2245	934.15	9.1945	244.92	3.8056
	2-6	7.5	6	6	13-6	3-0	8	1-8	12	3-6	4-0	29.57	2431	999.37	10.3166	269.69	4.5833
3	3-0	9.0	6	6	15-0	3-6	10	2-0	12	4-0	4-0	32.12	2616	1147.64	12.7322	376.82	6.4545
	2-0	8.0	7	6	13-0	2-7	8	1-8	9	3-2	5-0	36.41	2942	1140.77	11.1783	266.97	4.1166
	2-6	10.0	7	6	14-6	3-1	8	1-8	9	3-8	5-0	37.26	3178	1206.22	12.4768	372.02	4.9005
4	3-0	12.0	7	6	16-0	3-7	10	2-0	9	4-2	5-0	39.81	3313	1355.39	14.7554	399.99	6.8248
	4-0	16.0	7	8	19-0	4-7	10	2-2	9	5-2	5-4	44.34	4321	1590.99	19.7226	526.79	9.3522
	2-0	10.0	7 1/2	6	14-0	2-7 1/2	8	1-8	5	3-3	6-0	41.65	3583	1281.44	13.0074	281.84	4.4036
5	2-6	12.5	7 1/2	6	15-6	3-1 1/2	8	1-8	5	3-9	6-0	42.50	3768	1346.89	14.2339	326.89	5.1907
	3-0	15.0	7 1/2	6	17-0	3-7 1/2	10	2-0	5	4-3	6-0	45.05	3953	1496.64	16.6451	415.44	7.1573
	4-0	20.0	7 1/2	8	20-0	4-7 1/2	10	2-2	5	5-3	6-4	49.58	4972	1732.23	21.6755	542.23	9.6934
	5-0	25.0	7 1/2	8	23-0	5-7 1/2	10	2-4	5	6-3	6-4	52.98	5466	1988.79	25.7945	717.19	12.6772

STRAIGHT HEADWALLS

2^{ET} TO 5^{ET} SPANS

LOUISIANA HIGHWAY COMMISSION

BATON ROUGE, LA. SCALE: $\frac{1}{2}$ " = 1'-0" JULY 23, 1931

This plan is revision and replacement
of Standard Plan B-2-58.

(B-3-5a) *ms*