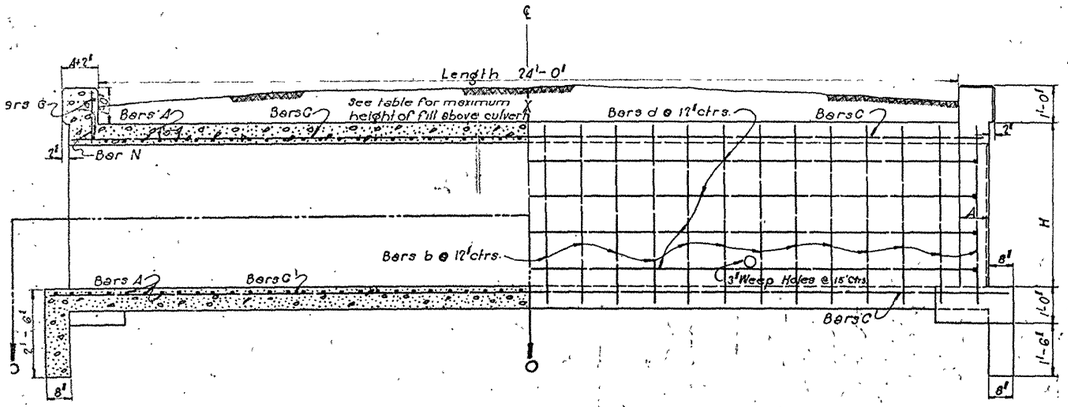
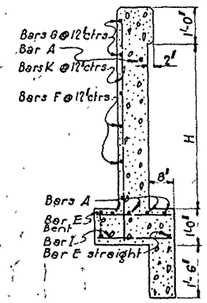
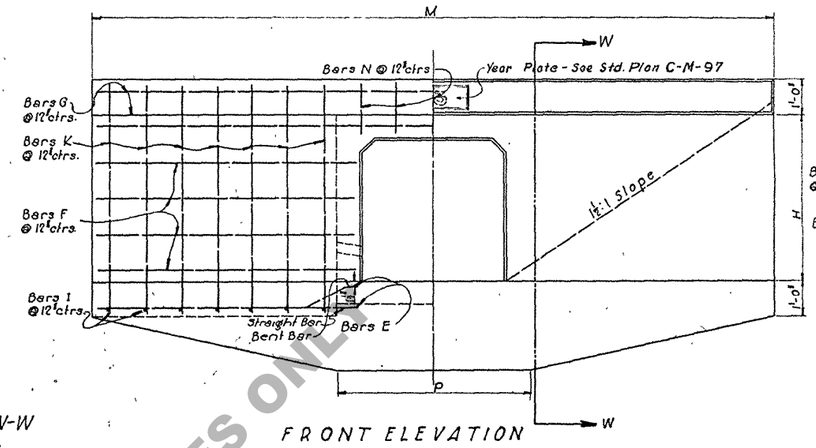


SECTION M-M

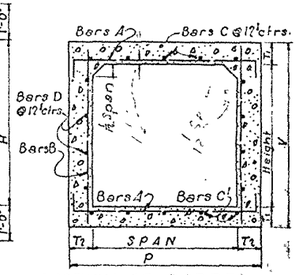
HALF SIDE ELEVATION



SECTION W-W
OF WING WALL



FRONT ELEVATION

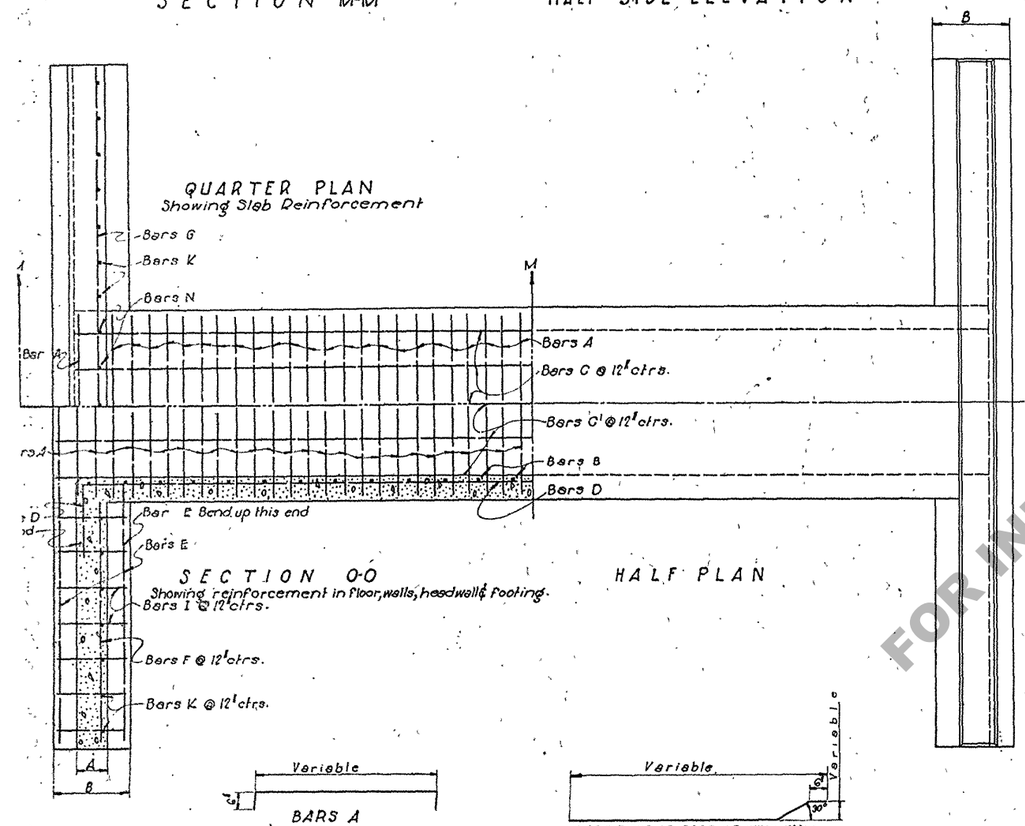


SECTION OF BARREL

COMPLETE STEEL SCHEDULE FOR 24'-0" CULVERT

OPENING CLEAR SPAN FT.	CLEAR HEIGHT FT. IN.	BARS A Length FT. IN.	BARS A Nº	BARS A Spacing IN.	BARS B Length FT. IN.	BARS B Nº	BARS C Length FT. IN.	BARS C Nº	BARS C' Length FT. IN.	BARS C' Nº	BARS D Length FT. IN.	BARS D Nº	BARS E Length FT. IN.	BARS E Nº	BARS F Length FT. IN.	BARS F Nº	BARS G Length FT. IN.	BARS G Nº	BARS K Length FT. IN.	BARS K Nº	BARS N Length FT. IN.	BARS N Nº	BARS I Length FT. IN.	BARS I Nº
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
	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
4	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
	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
5	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	22-9	4	7-4	36	1-4	12	2-1	36

Discarded



GENERAL NOTES & DESIGN DATA

General Specifications: La. State Highway Commission Spec.
Concrete: All class A - 1:6 mix.
Steel: All ½" bars, deformed.
All exposed corners to be chamfered ¾".
All exposed surfaces to be given a smooth finish.
Design Loads:-
Concentrated load: 15 Ton typical truck, with 30% impact allowance distributed as specified in general specifications.
Entire weight of fill 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 - 650 lbs.
Fill above slab of culvert is not to exceed the maximum height "X" as 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.

DIMENSIONS & QUANTITIES FOR 24'-0" CULVERT

SPAN FT.	HEIGHT FT-IN.	AREA SQ. FT.	T1 IN.	T2 IN.	M FT-IN.	H FT-IN.	A IN.	B FT-IN.	X FT.	V FT-IN.	P FT-IN.	PER LIN. FT. BARREL STEEL POUNDS	PER LIN. FT. BARREL CONCRETE CU. YDS.	TOTAL QUANTITIES TWO HEADWALLS STEEL POUNDS	TOTAL QUANTITIES TWO HEADWALLS CONCRETE CU. YDS.	TOTAL QUANTITIES TWO HEADWALLS STEEL POUNDS	TOTAL QUANTITIES TWO HEADWALLS CONCRETE 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	229.29	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
3	2-6	7.5	6	6	13-6	3-0	8	1-8	12	3-6	4-0	29.57	.2431	999.32	10.4166	289.69	4.5833
	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
4	2-6	10.0	7	6	14-6	3-1	8	1-8	9	3-8	5-0	37.26	.3128	1206.22	12.4068	312.02	4.9005
	3-0	12.0	7	6	16-0	3-7	10	2-0	9	4-2	5-0	39.81	.3313	1355.39	14.7754	399.59	6.8228
	4-0	16.0	7	8	19-0	4-7	10	2-2	9	5-2	5-4	44.34	.4321	1599.99	19.7226	526.79	9.3522
	2-0	10.0	7½	6	14-0	2-7½	8	1-8	5	3-3	6-0	41.65	.3583	1281.44	13.0024	281.84	4.4036
	2-6	12.5	7½	6	15-6	3-1½	8	1-8	5	3-9	6-0	47.50	.3768	1346.89	14.2339	376.89	5.1907
5	3-0	15.0	7½	6	17-0	3-7½	10	2-0	5	4-3	6-0	45.05	.3953	1496.64	16.6251	415.44	7.1573
	4-0	20.0	7½	8	20-0	4-7½	10	2-2	5	5-3	6-4	49.58	.4972	1732.23	21.6755	542.23	9.6934
	5-0	25.0	7½	8	23-0	5-7½	10	2-4	5	6-3	6-4	52.98	.5466	1988.79	25.7945	717.19	12.6772

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

CONCRETE BOX CULVERTS

STRAIGHT HEADWALLS

2 FT. TO 5 FT. SPANS

LOUISIANA HIGHWAY COMMISSION

BATON ROUGE, LA. SCALE: ½" = 1'-0" JULY 28, 1931

FOR INFORMATIONAL PURPOSES ONLY