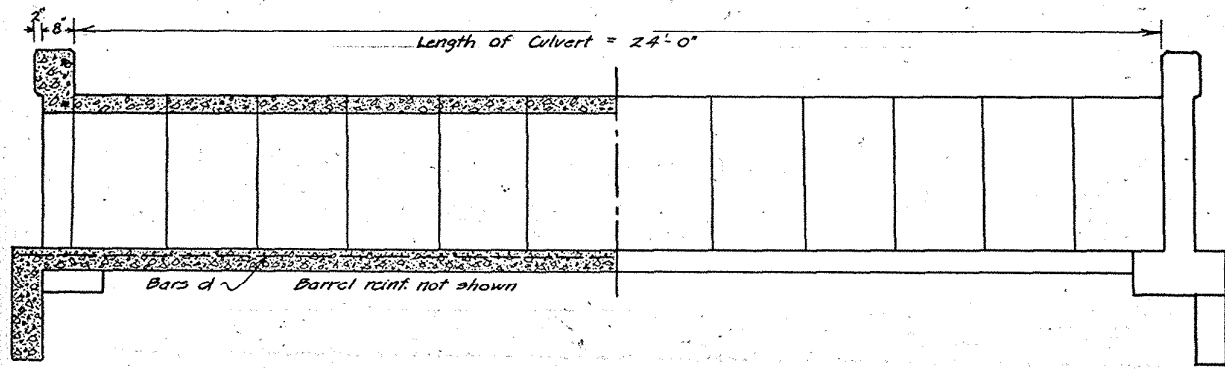
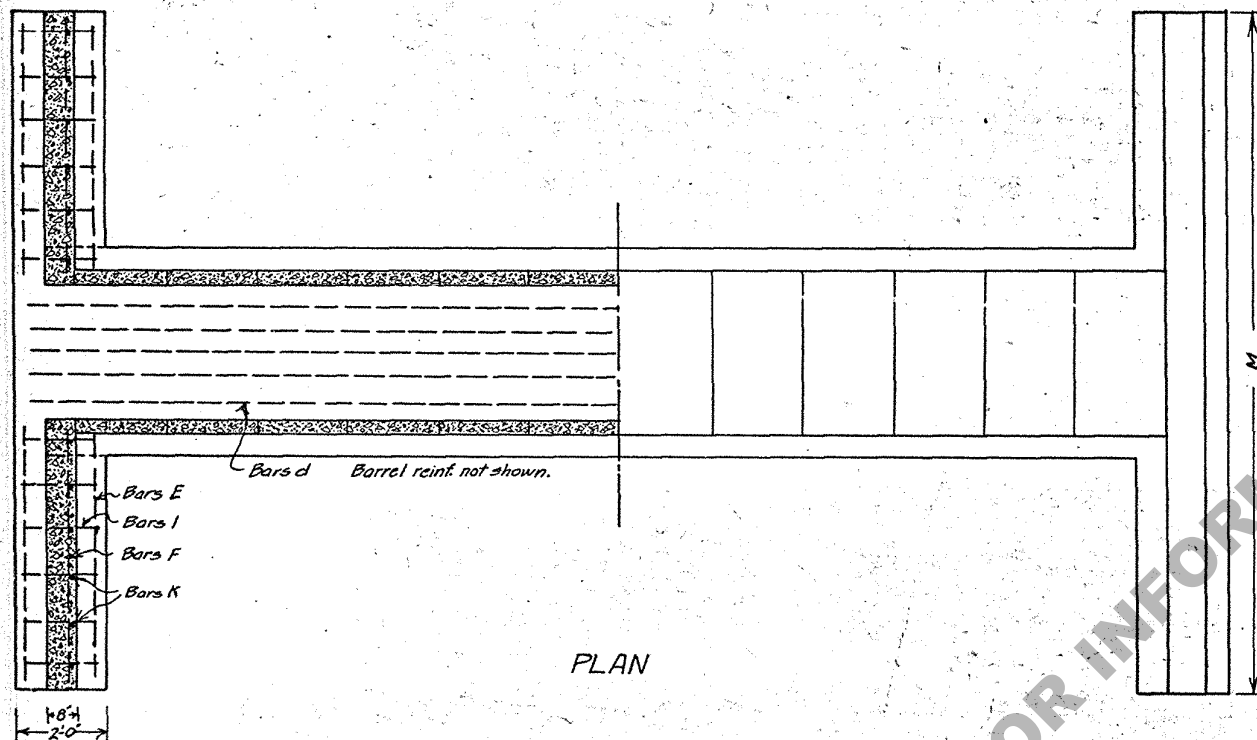
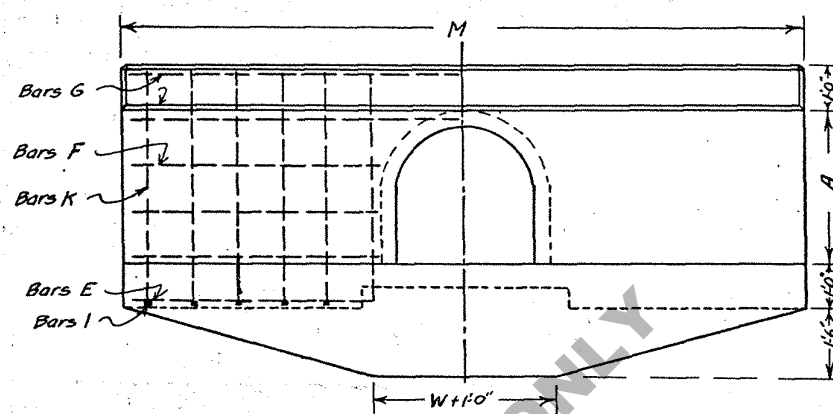




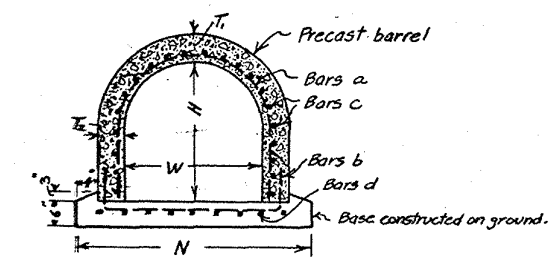
SIDE ELEVATION



PLAN



END VIEW



SECTION OF BARREL

DIMENSIONS AND STEEL FOR BASE & HEADWALLS

CLEAR WIDTH (W)	CLEAR HEIGHT (H)	AREA OPENING	24'-0" BASE								TWO HEADWALLS																TOTAL QUANTITIES				
			Width		Bars d		Rein. in ft.		TOTAL		DIMENSIONS		STEEL REINFR All 1/2" bars @ 12"								Conc.										
			N	1/2" @ 6"	FT-IN	NO.	LGTH	LBS.	CUYDS	FT-IN	NO.	LGTH	LBS.	CUYDS	FT-IN	FT-IN	LGTH	NO.	LGTH	NO.	LGTH	NO.	LGTH	NO.	LGTH	NO.	LBS.	CUYDS	FT-IN	NO.	LGTH
12	12	0.9	2-1	5	26-0	43	0.39	110	1.00	6-0	1-2 1/2	2-0	8	2-3	4	5-9	4	3-0	12	1-9	12	89	1.98	200	3.0						
18	12	1.3	2-7	6	26-0	51	0.48	133	1.22	6-9	1-3	2-0	8	2-3	4	5-9	4	3-0	12	1-9	12	89	2.00	220	3.2						
24	12	1.6	3-1	7	26-0	60	0.57	155	1.44	7-3	1-3 1/2	2-0	8	2-3	4	7-0	4	3-0	12	1-9	12	94	2.07	250	3.5						
15	15	1.4	2-4	5	26-0	43	0.43	110	1.11	7-0	1-5 1/2	2-0	8	2-6	4	6-9	4	3-3	12	1-9	12	96	2.16	210	3.3						
18	18	2.0	2-7	6	26-0	51	0.48	133	1.22	8-3	1-9	2-6	8	3-0	4	8-0	4	3-6	16	1-9	16	126	2.66	260	3.9						
24	18	2.6	3-1	7	26-0	60	0.57	155	1.44	8-9	1-9 1/2	2-6	8	3-0	4	8-6	4	3-6	16	1-9	16	128	2.80	280	4.2						
36	18	3.5	4-3	9	26-0	77	0.79	200	1.96	10-0	1-10 1/2	2-6	8	3-3	6	9-9	4	3-6	16	1-9	16	133	3.19	330	5.2						
24	24	3.6	3-1	7	26-0	60	0.57	155	1.44	10-3	2-3 1/2	3-6	8	3-9	6	10-0	4	4-0	16	1-9	16	155	3.52	310	5.0						
36	24	5.0	4-3	9	26-0	77	0.79	200	1.96	11-6	2-4 1/2	3-6	8	4-0	6	11-3	4	4-0	20	1-9	20	180	3.92	380	5.9						
36	30	6.5	4-3	9	26-0	77	0.79	200	1.96	13-0	2-10 1/2	4-0	8	4-9	6	12-9	4	4-6	20	1-9	20	201	4.73	400	6.7						
36	36	8.0	4-3	9	26-0	77	0.79	200	1.96	14-6	3-4 1/2	5-0	8	5-6	8	14-3	4	5-0	24	1-9	24	258	5.61	460	7.6						

SPECIFICATIONS

General- La. State Highway Dept. Spec. Apr. 1921.
 Barrel to consist of precast sections, conforming to dimensions and reinforcing as shown in table. Material requirements same as for reinforced concrete pipe. Sections to be at least 30 days old before being used.
 Sections are to be set and secured in place on base before the concrete has taken its initial set.
 Concrete in base and headwalls to be Class "A" (1:2:4)
 All exposed corners to be chamfered 3/4 in.
 Reinforcing should be wired at intersections and properly secured against displacement during depositing of concrete.
 The section of barrel adjacent to headwall should have the longitudinal bars "c" projecting about 4 inches into headwall, so as to tie headwall to barrel.
 Barrel of culvert when completed should be watertight, all joints between sections being sealed with cement mortar.
 All reinforcing to consist of deformed bars.

DIMENSIONS & STEEL FOR PRECAST BARREL SECTIONS

WIDTH W	HEIGHT H	T1	T2	REINFORCING					
				Bars a		Bars b		Bars c	
In.	In.	In.	In.	Size	Spac.	Size	Spac.	Size	Spac.
12	12	2 1/2	2 1/2	1/2"	6"	3/8"	8"	1/2"	6"
15	15	2 1/2	2 1/2	"	5"	"	"	"	5"
18	12-18	3	2 1/2	3/8"	4"	"	"	3/8"	4"
24	12-24	3 1/2	2 1/2	"	3 1/2"	"	"	"	3 1/2"
36	18-36	4 1/2	3 1/2	"	3"	3/8"	6"	"	3"

Discard

D. H. -
12-28-1931

CONCRETE CULVERTS
PRECAST BARREL

Louisiana State Highway Department
Board of State Engineers

NEW ORLEANS, LA. SCALE: 1/2"=1 FT. NOV. 1921.

APPROVED: STATE HIGHWAY ENGINEER

R-2-40