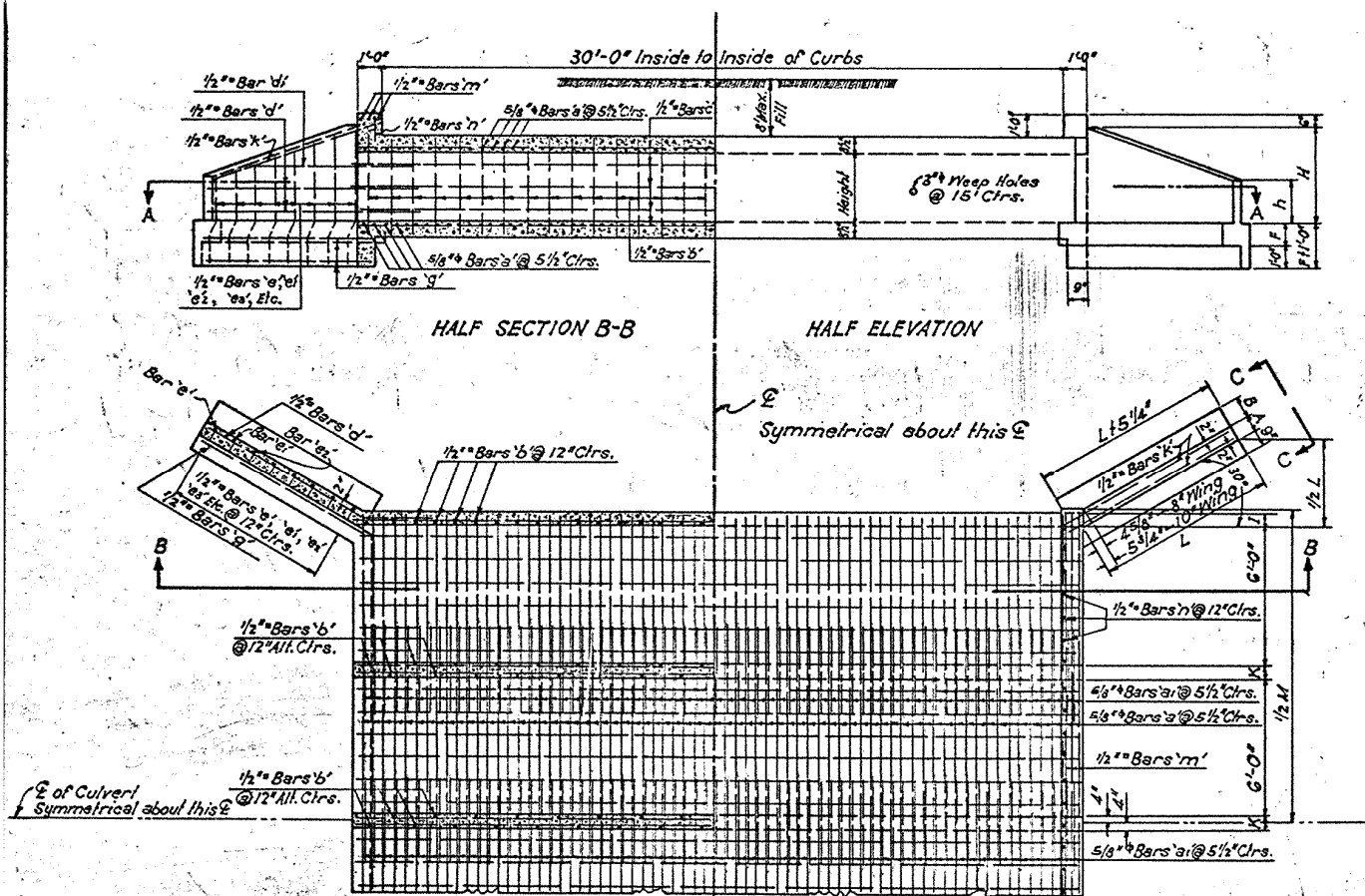
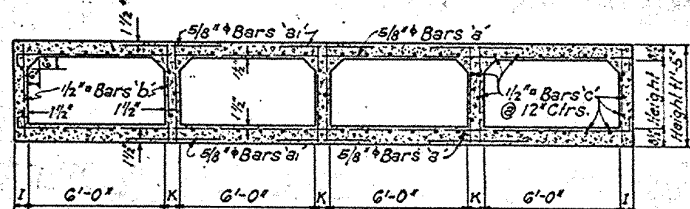
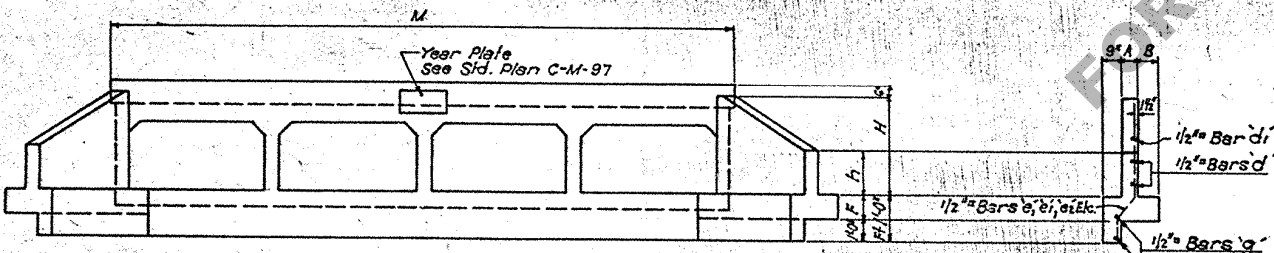




HALF SECTION B-B
HALF ELEVATION
Showing Reinforcing in Bottom Slab, Walls, and Wings
Showing Reinforcing in Top Slab and Curb



SECTION OF BARREL



ELEVATION OF HEADWALL
Reinforcing Not Shown

END VIEW C-C

Detail of 5/8" Bar 'a'

Detail of 1/2" Bar 'd', 'e', 'f', etc.

Detail of 1/2" Bar 'e', 'f', etc. Detail of 1/2" Bar 'k'

GENERAL NOTES

Const. Specs: Latest approved La. Hwy. Dept. Std. Specs.
Design Specs: La. Hwy. Commission, 1929
Assumed Live Load - 2 Typical 15 Ton Trucks
Concrete to be class A throughout.
All reinforcing steel shall be considered as deformed bars.
Square twisted bars not to be considered as deformed.
Where splicing of bars is necessary they shall be lapped 40 diameters.
All exposed corners to be chamfered 1/4".
Place about One (1) Cu. Ft. of large size gravel or loose rock behind and around each weep hole.

BILL OF REINFORCING STEEL FOR 30' STRUCTURE																			
Slope	Bar	Size	4-G'X2'				4-G'X3'				4-G'X4'				4-G'X5'				Slope
			2:1	3:1	4:1	5:1	2:1	3:1	4:1	5:1	2:1	3:1	4:1	5:1	2:1	3:1	4:1	5:1	
	a	5/8"	138	27'-11"			138	27'-11"			138	27'-11"			138	27'-11"			a
	a1	5/8"		4'-4"	3'-9"			4'-4"	3'-9"			4'-4"	3'-9"			4'-4"	3'-9"		a1
	b	1/2"		160	3'-2"			160	3'-2"			160	3'-2"			160	3'-2"		b
	c	1/2"		58	3'-9"			63	3'-9"			68	3'-9"			73	3'-9"		c
	d	1/2"		4	8'-4"			8	10'-2"			8	12'-3"			12	14'-2"		d
	d1	1/2"		4	7'-11"			4	8'-0"			4	11'-7"			4	11'-9"		d1
	d2	1/2"										4	8'-4"			4	8'-5"		d2
	d3	1/2"																	d3
	d4	1/2"																	d4
	e	1/2"		4	3'-5 1/2"			4	3'-11 1/2"			4	4'-8"			4	5'-2"		e
	e1	1/2"		4	3'-9"			4	4'-3"			4	4'-11 1/2"			4	5'-5 1/2"		e1
	e2	1/2"		4	4'-0 1/2"			4	4'-6 1/2"			4	5'-3"			4	5'-9"		e2
	e3	1/2"		4	4'-4 1/2"			4	4'-10"			4	5'-6 1/2"			4	6'-0 1/2"		e3
	e4	1/2"		4	4'-8"			4	5'-2"			4	5'-10"			4	6'-4"		e4
	e5	1/2"		4	5'-0"			4	5'-5 1/2"			4	6'-1 1/2"			4	6'-7 1/2"		e5
	e6	1/2"						4	5'-9"			4	6'-5"			4	6'-11"		e6
	e7	1/2"						4	6'-0 1/2"			4	6'-9"			4	7'-3"		e7
	e8	1/2"										4	7'-0"			4	7'-6 1/2"		e8
	e9	1/2"										4	7'-3 1/2"			4	7'-10"		e9
	e10	1/2"														4	8'-1 1/2"		e10
	e11	1/2"														4	8'-5"		e11
	e12	1/2"																	e12
	e13	1/2"																	e13
	e14	1/2"																	e14
	e15	1/2"																	e15
	e16	1/2"																	e16
	k	1/2"		8	7'-3"			8	9'-2"			8	11'-0"			8	13'-0"		k
	q	1/2"		8	6'-7"			8	8'-5"			8	10'-3"			8	12'-2"		q
	m	1/2"		6	27'-3"			6	27'-3"			6	27'-8"			6	27'-8"		m
	n	1/2"		54	1'-5"			54	1'-5"			54	1'-5"			54	1'-5"		n
QUANTITIES AND DIMENSIONS FOR 30' STRUCTURE																			
Slope	Bar	Size	4-G'X2'				4-G'X3'				4-G'X4'				4-G'X5'				Slope
			2:1	3:1	4:1	5:1	2:1	3:1	4:1	5:1	2:1	3:1	4:1	5:1	2:1	3:1	4:1	5:1	
	A			8"				8"				10"				10"			A
	B			1'-0"				1'-0"				1'-3"				1'-6"			B
	F			1'-0"				1'-0"				1'-3"				1'-3"			F
	H			3'-2 1/2"				4'-2 1/2"				5'-2 1/2"				6'-2 1/2"			H
	h			1'-6"				1'-11 1/2"				2'-5"				2'-10 3/4"			h
	I			7"				7"				7"				7"			I
	K			8"				8"				8"				8"			K
	L			6'-0"				7'-10"				9'-8"				11'-7"			L
	M			27'-6 1/2"				27'-6 1/2"				27'-11"				27'-11"			M
	Curb Conc.			62.48				68.08				76.96				84.45			Curb Conc.
	Lbs. Steel			8073				8460				8880				9313			Lbs. Steel
Concrete Per Lin. Ft. of Barrel-All Slopes			1.6371 Cu. Yds.				1.8143 Cu. Yds.				1.9316 Cu. Yds.				2.0489 Cu. Yds.				
Steel Per Lin. Ft. of Barrel-All Slopes			241.02 Pounds				249.52 Pounds				258.02 Pounds				266.52 Pounds				

DISCARDED
RETRACED
5.8.58

STANDARD PLAN
4-G'X2', 4-G'X3', 4-G'X4' & 4-G'X5' R.C. CULVERTS
SLOPES 2:1, 3:1, 4:1, 5:1
8' MAXIMUM FILL

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS
DESIGNED BY: HESTER
CHECKED BY: SMART
IN CHARGE OF: H. D. Offenberg, Head Road Designer