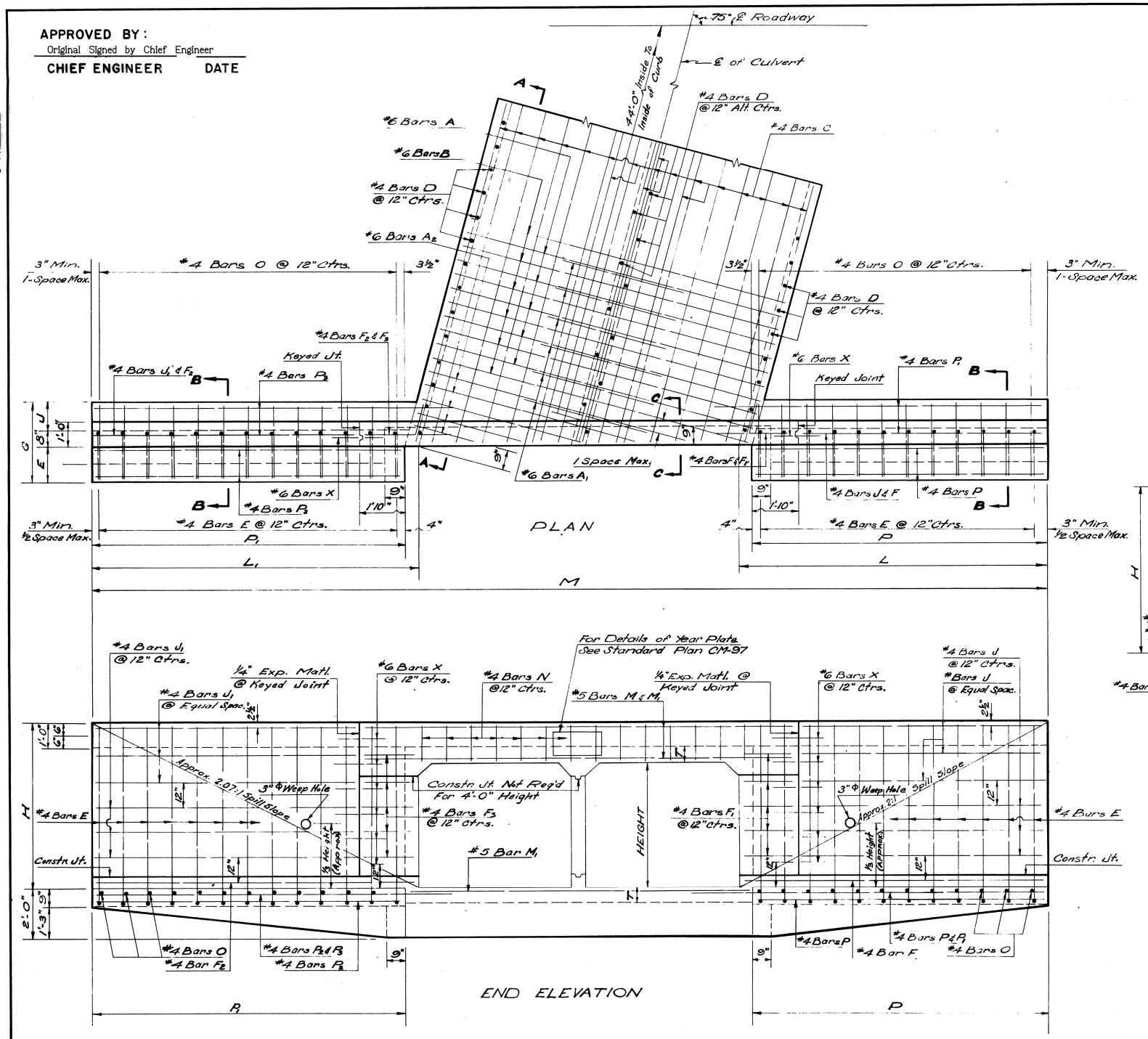
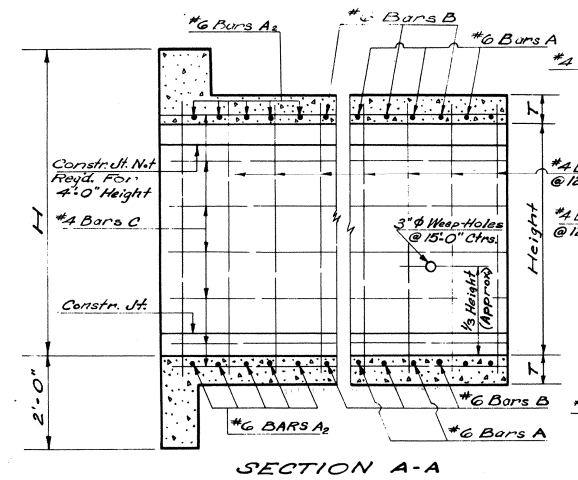
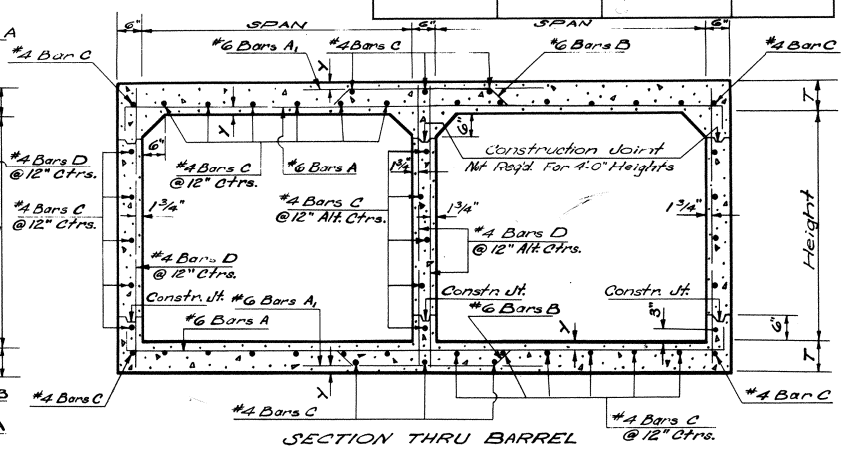
APPROVED BY:
Original Signed by Chief Engineer
CHIEF ENGINEER DATE

STATE PROJECT	PARISH	SHEET NO.

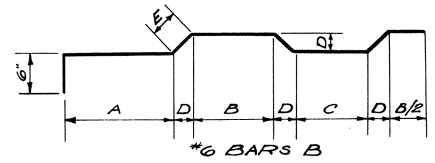




SECTION A-A

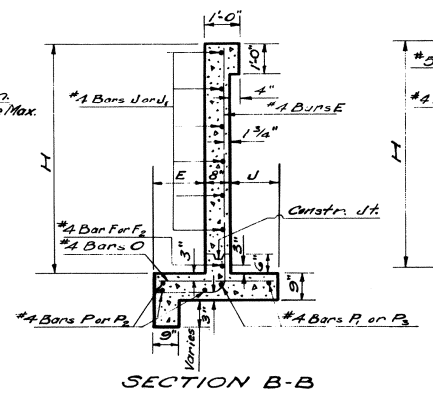


SECTION THRU BARREL

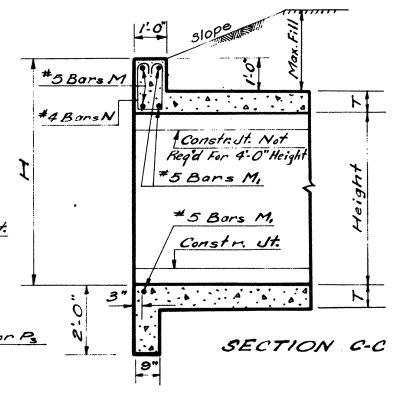


#6 BARS B

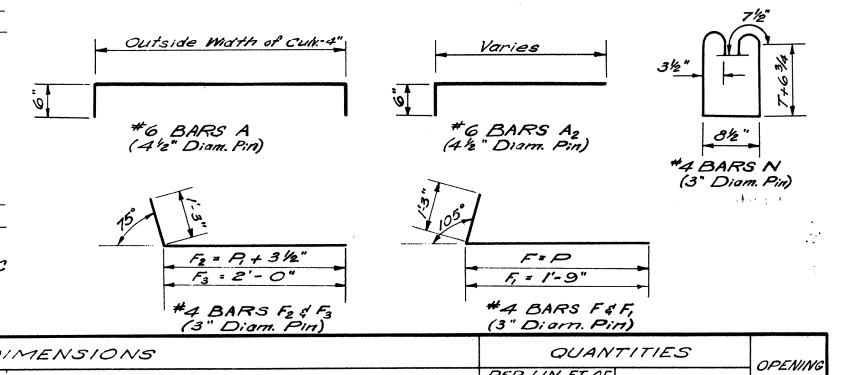
DIMENSIONS FOR BARS B						
SPAN	DIAM. PIN	A	B	C	D	E
6'-0"	4½"	4'-7⅞"	3'-1⅜"	2'-7⅞"	4½"	6"
7'-0"	4½"	5'-4⅝"	3'-7⅛"	3'-1⅜"	4⅝"	6⅜"

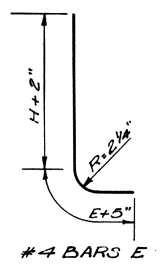


SECTION B-B



SECTION C-C





#4 BARS E

DIMENSIONS																		QUANTITIES				OPENING	
OPENINGS		MAX. FILL	BARREL		WINGS AND CURBS													PER LIN. FT. OF BARREL		44'-0" CULVERT			
SIZE	NO.	AREA	SLABS	WALLS	T	Y	E	J	G	H	L	L₁	P	P₁	M			STEEL	CONCRETE	STEEL	CONCRETE	NO.	SIZE
FEET		SQ. FT.	FEET	FEET	IN.	IN.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.			POUNDS	CU. YDS.	POUNDS	CU. YDS.		FEET
6x4	2	48	16	12	8	1⅞	1-3	0-10	2-9	5-8	10-4 9/16	11-1 3/16	9-10	10-7	34-4 9/16			127.76	0.9074	6838	54.15	2	6x4
	3	72													41-1 9/16			193.32	1.3117	10042	78.77	3	
	4	96	20												47.10 9/16			258.88	1.7161	13320	93.39	4	
	5	120													54-6 9/16			324.45	2.1204	16594	113.02	5	
	6	144													61-3 9/16			401.17	2.5247	20398	132.64	6	
6x5	2	60	18	12	8	1⅞	1-3	1-2	3-3	6-8	12-4 3/16	13-1 3/16	11-10	12-7	38-4 9/16			131.76	0.9630	7239	60.58	2	6x5
	3	90													45-1 7/16			198.66	1.3858	10506	81.06	3	
	4	120													51-10 9/16			265.56	1.8087	13845	101.54	4	
	5	150													58-6 9/16			332.46	2.2315	17182	122.02	5	
	6	180													65-3 9/16			410.52	2.6544	21048	142.49	6	
7x4	2	56	12	12	8½	1⅞	1-3	0-10	2-9	5-8½	10-4 3/16	11-1 3/16	9-10	10-7	36-5 9/16			149.88	1.0540	7878	61.21	2	7x4
	3	84													44-2 9/16			227.54	1.5309	11076	84.31	3	
	4	112													51-11 9/16			305.20	2.0077	15466	107.41	4	
	5	140													59-5 9/16			382.86	2.4846	19417	130.52	5	
	6	168													67-6 9/16			472.54	2.9614	23919	153.62	6	

General Notes:
Construction Specifications: Latest Approved La. Dept. of Highway Standard Specifications.
Design Specifications: A.A.S.H.O. 1961 As Amended By Int. Spec. 1964.
Live Load: H.S. 20-44 or Military; Whichever Is Greater.
All Concrete To Be Class "A".
All Exposed Corners To Have ¾" Chamfer Unless Otherwise Noted.
Reinforcement Shall Be Billet Steel A.S.T.M. A615 or Rail Steel A.S.T.M. A 616 or Axle-Steel A.S.T.M. A 617
Dimensions Relating To Reinforcing Steel Are To Bar Centers.
A 1'-6" Square of Plastic Filter Cloth (See Qualified Products List) shall be placed in contact with Concrete behind each Weep Hole, in addition to approx. 2 Cu. Ft. of Concrete Sand.
For Detail of Joints, See Std. Plan C.M.-49.

BILL OF REINFORCING STEEL FOR 44'-0" CULVERT

BARREL REINFORCEMENT

OPENINGS		#6 BARS A			#6 BARS A₁			#6 BARS A₂				#6 BARS B			#4 BARS C			#4 BARS D		
SIZE	NO.	NO.	Length	Spac.	NO.	Length	Spac.	NO.	SHORT BAR	VAR.	LONG BAR	SPAC.	NO.	Length	Spac.	NO.	Length ①		NO.	Length
FEET			Ft.-In.	In.		Ft.-In.	In.		Ft.-In.	In.	Ft.-In.	In.		Ft.-In.	In.		Ft.-In.			Ft.-In.
6 x 4	2	74	14-2	14	32	5-2	14	20	3-0	26.2500	11-9	7	74	14-5½	14	46	47-2		138	5-0
	3	70	20-8	14	168	5-2	14	32	3-0	26.1429	18-3	7	72	21-3	14	69	47-2		184	5-0
	4	68	27-2	14	264	5-2	14	44	3-0	26.1000	24-9	7	68	28-0½	14	90	47-2		230	5-0
	5	64	33-8	14	360	5-2	14	56	3-0	26.1538	31-4	7	66	34-10	14	112	47-2		276	5-0
	6	62	③42-4	14	470	5-2	14	68	3-0	26.1250	37.10	7	62	43-9½	14	134	47-2		322	5-0
6 x 5	2	74	14-2	14	32	5-2	14	20	3-0	26.2500	11-9	7	74	14-5½	14	49	47-2		138	6-0
	3	70	20-8	14	168	5-2	14	32	3-0	26.1429	18-3	7	72	21-3	14	72	47-2		184	6-0
	4	68	27-2	14	264	5-2	14	44	3-0	26.1000	24-9	7	68	28-0½	14	95	47-2		230	6-0
	5	64	33-8	14	360	5-2	14	56	3-0	26.1538	31-4	7	66	34-10	14	118	47-2		276	6-0
	6	62	③42-4	14	470	5-2	14	68	3-0	26.1250	37.10	7	62	43-9½	14	141	47-2		322	6-0
7 x 4	2	76	16-2	13	88	5-8	④13	28	3-0	24.3333	13-2	6½	73	16-6	13	50	47-2		138	5-1
	3	74	23-8	13	180	5-8	④13	40	3-0	24.2222	21-2	6½	76	24-4	13	74	47-2		184	5-1
	4	70	31-2	13	282	5-8	④13	56	3-0	24.2308	29-3	6½	70	32-2	13	98	47-2		230	5-1
	5	66	38-8	13	392	5-8	④13	72	3-0	24.2333	37.4	6½	66	40-0	13	122	47-2		276	5-1
	6	62	③48-4	13	514	5-8	④13	88	3-0	24.2381	③45-5	6½	62	③50-0	13	146	47-2		322	5-1

CURBS AND WINGS REINFORCEMENT

#4 BARS E		#4 BARS F		#4 BARS F₁		#4 BARS F₂		#4 BARS F₃		#4 BARS J		#4 BARS J₁		#4 BARS O		#4 BARS P		#4 BARS P₁		#4 BARS P₂		#4 BARS P₃	
NO.	Length	NO.	Length	NO.	Length	NO.	Length	NO.	Length	NO.	Length	NO.	Length	NO.	Length	NO.	Length	NO.	Length	NO.	Length	NO.	Length
	Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.
42	7-6	2	11-1	8	3-0	2	12-1½	8	3-3	10	7-8	10	8-5	42	2-4	6	9-6	4	11-1	6	10-3	4	12-3
50	8-8	2	13-1	10	3-0	2	14-1½	10	3-3	12	9-8	12	10-5	50	2-10	6	11-6	4	13-1	6	12-3	4	14-4
42	7-6½	2	11-1	8	3-0	2	12-1½	8	3-3	10	7-8	10	8-5	42	2-4	6	9-6	4	11-1	6	10-3	4	12-3

#4 BARS N		#5 BARS M		#5 BARS M₁		#6 BARS X	
NO.	Length	NO.	Length	NO.	Length	NO.	Length
	Ft.-In.		Ft.-In.		Ft.-In.		Ft.-In.
28	4-5	4	17-1	6	15-7	20	2-0
42	4-5	4	23-10	6	20-4	20	2-0
56	4-5	4	30-6	6	27-1	20	2-0
68	4-5	4	37-3	6	33-9	20	2-0
82	4-5	4	③45-10	6	③42-4	20	2-0
28	4-5	4	17-1	6	15-7	24	2-0
42	4-5	4	23-10	6	20-4	24	2-0
56	4-5	4	30-6	6	27-1	24	2-0
68	4-5	4	37-3	6	33-9	24	2-0
82	4-5	4	③45-10	6	③42-4	24	2-0
32	4-6	4	19-2	6	16-8	20	2-0
48	4-6	4	26-11	6	23-5	20	2-0
64	4-6	4	34-8	6	31-2	20	2-0
80	4-6	4	③44-4	6	39-0	20	2-0
94	4-6	4	③52-1	6	③48-7	20	2-0

① Includes One 1'-6" Lap Splice ② Incl. One 2'-2" Lap Splice ③ Does Not Include Lap Splice When Bar Length Exceeds 40'-0" Add One 2'-2" Lap Splice ④ Include One 1'-10" Lap Splice Ⓐ #6 Bars X To Be ¾" Φ Smooth & Greased For 1'-0" of Length

REVISIONS		
DATE	DESCRIPTION	BY
1-5-78	Rev. Weep Hole Note	W.T.J.
5-30-75	Revised Spill Slope	W.T.J.
6-3-74	Rev. General Notes for Steel	W.E.M.
4-28-67	Axle Steel Added	W.E.M.

CC·S·M·6-7·R·75°-I

STANDARD PLAN
MULTIPLE OPENINGS
REINF. CONCRETE BOX CULVERT
STRAIGHT WINGS 75° CROSSING
2:1 SPILL SLOPE, NORMAL TO CHANNEL
DATED 2-4-1965 6x4' 6x5' 7x4'

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED W.E.M.	DETAILED	TRACED
CHECKED N.K.B.	CHECKED	CHECKED
IN CHARGE OF		

CC·S·M·6-7·R·75°-I