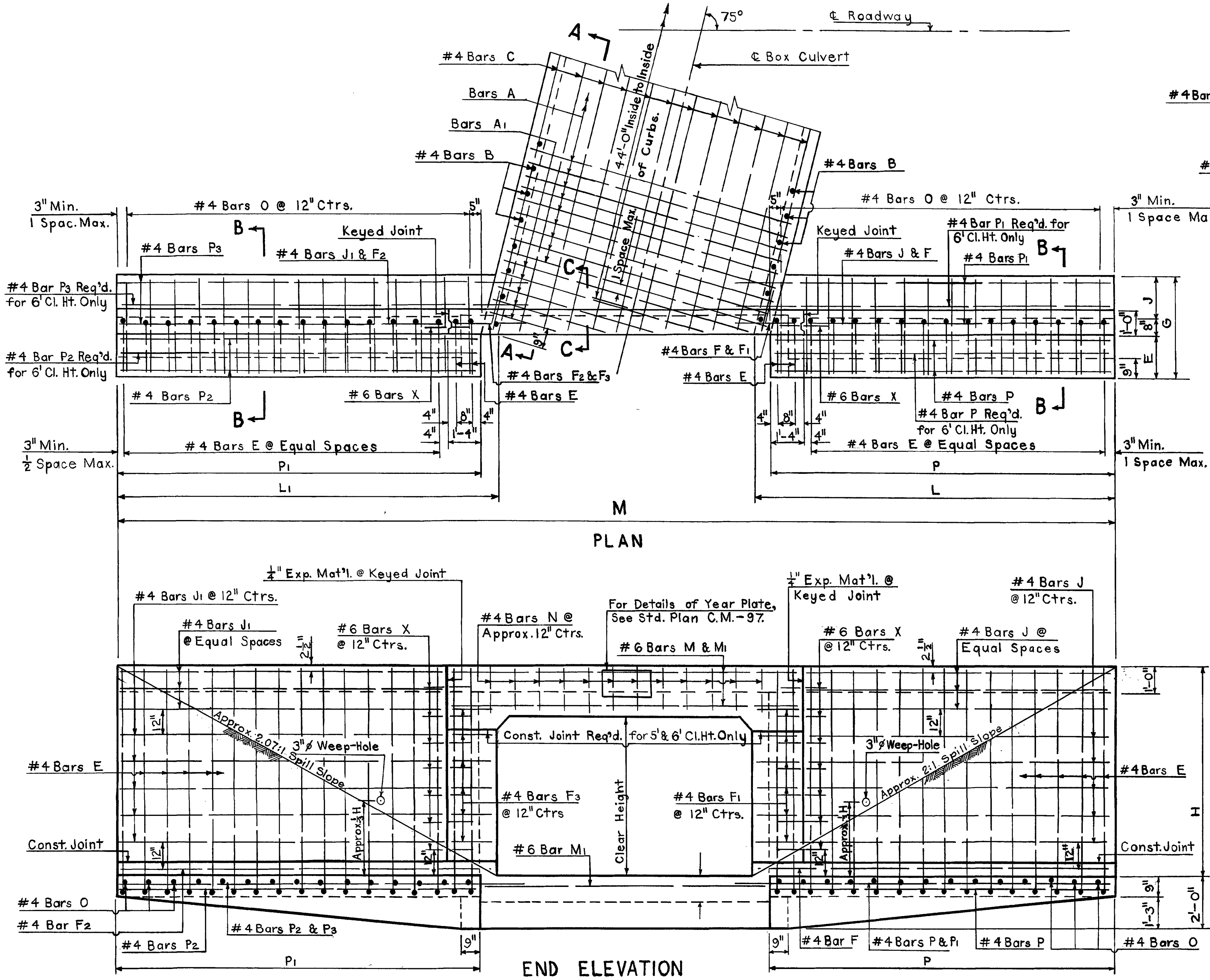
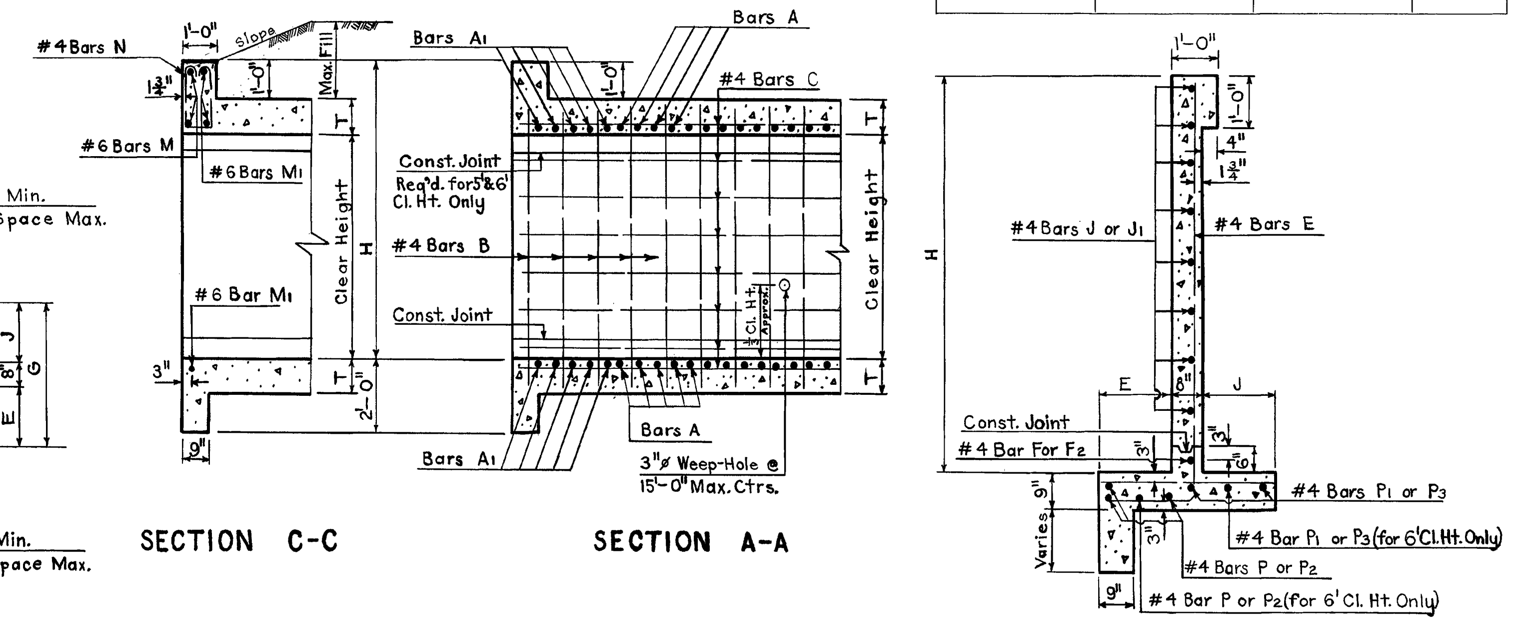
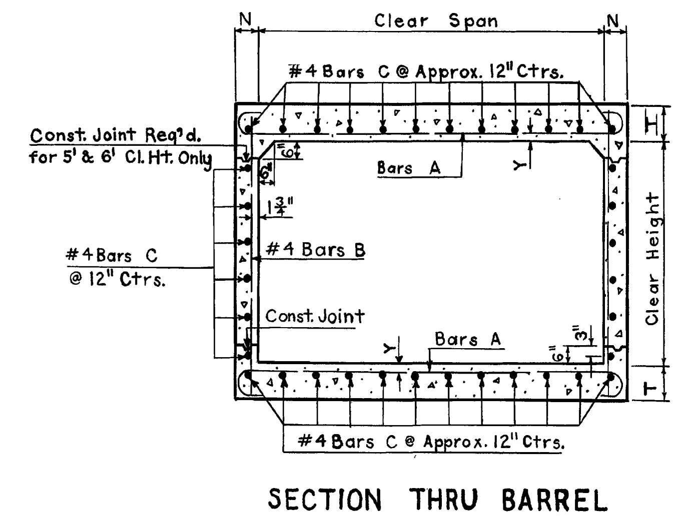






GENERAL NOTES:

Construction Specifications: Latest Approved La. Department of Highways Standard Specifications.

Design Specifications: A.A.S.H.O. 1969 as Amended to 1971.

Live Load: H.S. 20-44 or Military Loading Whichever is Greater.

All Concrete to be Class "A".

All Exposed Corners to have 3/4" Chamfer, Unless Otherwise Noted.

Reinforcement Shall be Billet-Steel A.S.T.M. A615 or Rail-Steel A.S.T.M. A616 or Axle-Steel A.S.T.M. A617.

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 Details of Joints, See Std. Plan CM-49.

APPROVED BY:
Original Signed by Chief Engineer
CHIEF ENGINEER DATE

DIMENSIONS

Opening Clear Span FT.	Opening Clear Height FT.	Area SQ.FT.	Max. Fill Slab FT.	Max. Fill Wall FT.	Barrel N IN.	Barrel T IN.	Barrel Y IN.	E FT-IN.	J FT-IN.	G FT-IN.	H FT-IN.	L FT-IN.	L1 FT-IN.	P FT-IN.	P1 FT-IN.	M FT-IN.
8	4	32	14	11	6	10	1 7/8	1-3	0-10	2-9	5-10	10-8 3/16	11-5 3/16	10-2	10-11	30-4 13/16
	5	40	13	6	6	10	1 7/8	1-5	1-2	3-3	6-10	12-8 3/16	13-5 3/16	12-2	12-11	34-4 13/16
	6	48	13	5	7	10	1 7/8	1-7	1-7	3-10	7-10	14-7 1/4	15-4 1/4	14-0	14-9	38-2 7/8
9	5	45	12	8	7	10 1/2	1 15/16	1-5	1-2	3-3	6-10 1/2	12-9 1/4	13-6 1/4	12-2	12-11	35-7 5/16
	6	54	12	5	7	10 1/2	1 15/16	1-7	1-7	3-10	7-10 1/2	14-7 1/4	15-4 1/4	14-0	14-9	39-3 5/16
10	5	50	10	11	8	11	1 15/16	1-5	1-2	3-3	6-11	12-10 5/16	13-7 5/16	12-2	12-11	36-9 13/16
	6	60	10	6	8	11	1 15/16	1-7	1-7	3-10	7-11	14-8 5/16	15-5 5/16	14-0	14-9	40-5 13/16

① Includes 1'-6" Lap Splice

BILL OF REINFORCING STEEL FOR 44'-0" CULVERT

BARREL REINFORCEMENT

Clear Span FT.	Clear Height FT.	Bars A Size	Bars A No.	Bars A Lgth. FT-IN.	Bars A Spac. IN.	Bars A1 Size	Bars A1 No.	Bars A1 Short Bar FT-IN.	Bars A1 Var. IN.	Bars A1 Long Bar FT-IN.	Bars A1 Spac. IN.	#4 Bars B No.	#4 Bars B Lgth. FT-IN.	#4 Bars B Spac. IN.	#4 Bars C No.	#4 Bars C ①Lgth. FT-IN.
8	4	#6	212	10-0 1/2	5	#6	16	3-2	18.6667	7-10	5	92	5-4	12	26	47-2
	5	#6	212	10-0 1/2	5	#6	16	3-2	18.6667	7-10	5	92	6-4	12	28	47-2
	6	#6	208	10-2 1/2	5	#6	20	3-3	18.5000	9-5	5	92	7-4	12	30	47-2
9	5	#7	174	11-5 1/2	6	#7	16	3-4	22.3333	8-11	6	92	6-5	12	30	47-2
	6	#7	174	11-5 1/2	6	#7	16	3-4	22.3333	8-11	6	92	7-5	12	32	47-2
10	5	#7	172	12-7 1/2	6	#7	20	3-5	22.5000	10-11	6	92	6-6	12	32	47-2
	6	#7	172	12-7 1/2	6	#7	20	3-5	22.5000	10-11	6	92	7-6	12	34	47-2

WING AND CURB REINFORCEMENT

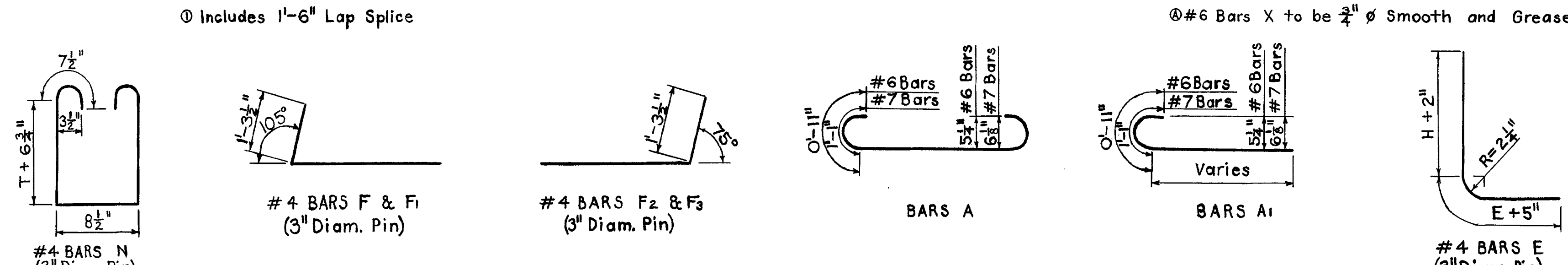
Clear Span FT.	Clear Height FT.	#4 Bars E No.	#4 Bars E Lgth. FT-IN.	#4 Bars E Spac. IN.	#4 Bars F No.	#4 Bars F Lgth. FT-IN.	#4 Bars F1 No.	#4 Bars F1 Lgth. FT-IN.	#4 Bars F2 No.	#4 Bars F2 Lgth. FT-IN.	#4 Bars F3 No.	#4 Bars F3 Lgth. FT-IN.	#4 Bars J No.	#4 Bars J Lgth. FT-IN.	#4 Bars J1 No.	#4 Bars J1 Lgth. FT-IN.	#4 Bars N No.	#4 Bars N Lgth. FT-IN.
8	4	46	7-8	12	2	11-5	8	2-6	2	12-5	8	2-9	12	8-6	12	9-3	20	4-9
	5	54	8-10	12	2	13-5	10	2-6	2	14-5	10	2-9	14	10-6	14	11-3	20	4-9
	6	66	10-0	11	2	15-4	12	2-7	2	16-4	12	2-10	16	12-4	16	13-1	20	4-9
9	5	54	8-10 1/2	12	2	13-6	10	2-7	2	14-6	10	2-10	14	10-6	14	11-3	22	4-10
	6	66	10-0 1/2	11	2	15-4	12	2-7	2	16-4	12	2-10	16	12-4	16	13-1	22	4-10
10	5	54	8-11	12	2	13-7	10	2-8	2	14-8	10	2-11	14	10-6	14	11-3	24	4-11
	6	66	10-1	11	2	15-5	12	2-8	2	16-6	12	2-11	16	12-4	16	13-1	24	4-11

Clear Span FT.	Clear Height FT.	#4 Bars O No.	#4 Bars O Lgth. FT-IN.	#4 Bars P No.	#4 Bars P Lgth. FT-IN.	#4 Bars P1 No.	#4 Bars P1 Lgth. FT-IN.	#4 Bars P2 No.	#4 Bars P2 Lgth. FT-IN.	#4 Bars P3 No.	#4 Bars P3 Lgth. FT-IN.	#6 Bars M No.	#6 Bars M Lgth. FT-IN.	#6 Bars M1 No.	#6 Bars M1 Lgth. FT-IN.	Ⓐ#6 Bars X No.	Ⓐ#6 Bars X Lgth. FT-IN.
8	4	42	2-4	6	9-10	4	11-5	6	10-7	4	12-8	4	11-5	6	8-11	20	2-0
	5	50	2-10	6	11-10	4	13-5	6	12-7	4	14-8	4	11-5	6	8-11	24	2-0
	6	58	3-5	8	13-8	6	15-3	8	14-5	6	16-6	4	11-7	6	9-1	28	2-0
9	5	50	2-10	6	11-10	4	13-5	6	12-7	4	14-8	4	12-8	6	10-2	24	2-0
	6	58	3-5	8	13-8	6	15-3	8	14-5	6	16-6	4	12-8	6	10-2	28	2-0
10	5	50	2-10	6	11-10	4	13-5	6	12-7	4	14-8	4	13-10	6	11-4	24	2-0
	6	58	3-5	8	13-8	6	15-3	8	14-5	6	16-6	4	13-10	6	11-4	28	2-0

QUANTITIES

Clear Span FT.	Clear Height FT.	Per Linear Ft. of Barrel Steel LBS.	Per Linear Ft. of Barrel Conc. CU. YDS.	44'-0" Culvert Steel LBS.	44'-0" Culvert Conc. CU. YDS.
8	4	96.89	0.7130	5399	44.91
	5	99.56	0.7500	5747	50.58
	6	103.44	0.8344	6282	58.98
9	5	122.30	0.8843	6791	56.96
	6	124.97	0.9275	7272	63.45
10	5	133.28	1.0257	7343	63.67
	6	135.95	1.0751	7825	70.45

Ⓐ #6 Bars X to be 3/4" ø Smooth and Greased for 1'-0" of Length.



1-11-78	Rev. Weep Hole Note		W.T.J.
5-30-75	Revised Spill Slope		W.T.J.
6-8-72	Rev. General Notes for Steel		W.E.M.
DATE	DESCRIPTION		BY

REVISIONS

STATE PROJECT	PARISH	SHEET NO.

STANDARD PLAN
REINFORCED CONCRETE BOX CULVERT
STRAIGHT WINGS 75° CROSSING
8' TO 10' SPANS 2:1 SPILL SLOPE 4' TO 6' HEIGHTS
DATED DEC. 29, 1971

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED | DETAILED J.J. RIBAS | TRACED M. LANOUX
CHECKED | CHECKED H. BAROUSSE | CHECKED J.D. BACCI

C.C.S.S. 8-10-R-75°-1