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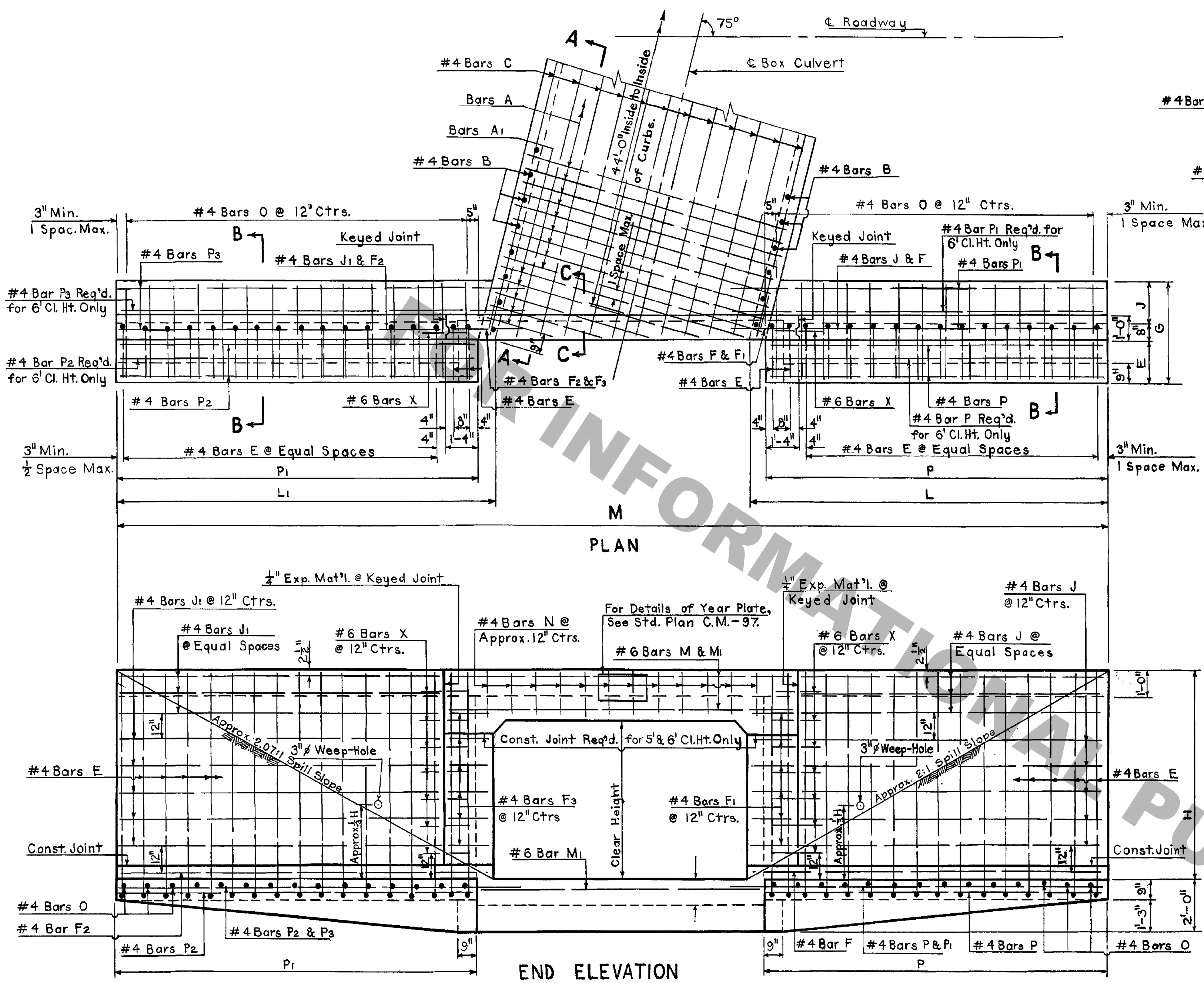
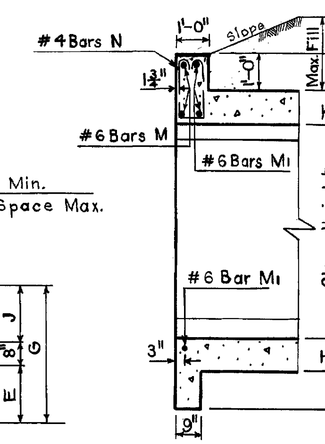
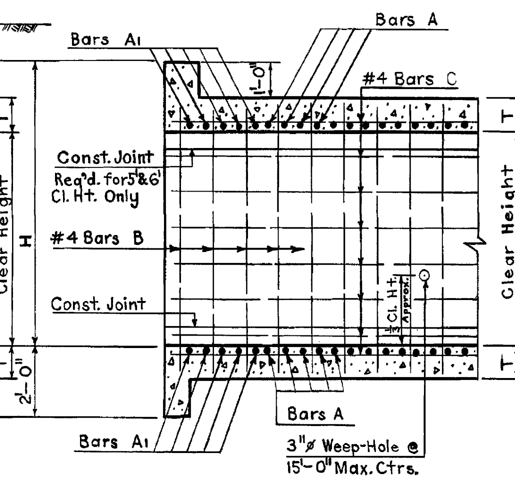
F.A.P.	STATE PROJECT	PARISH	SHEET NO.

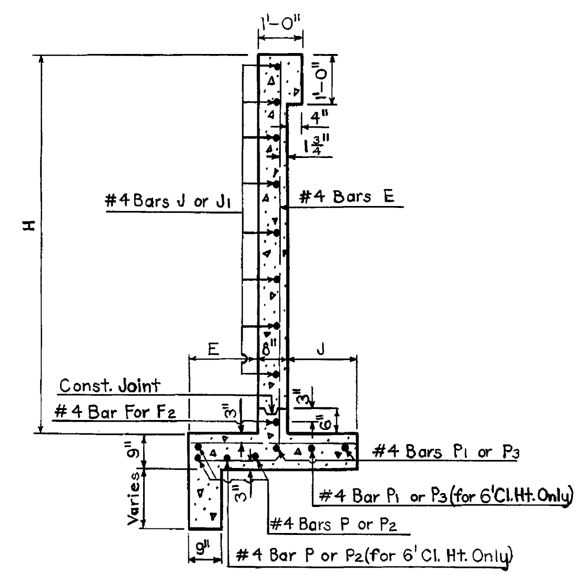




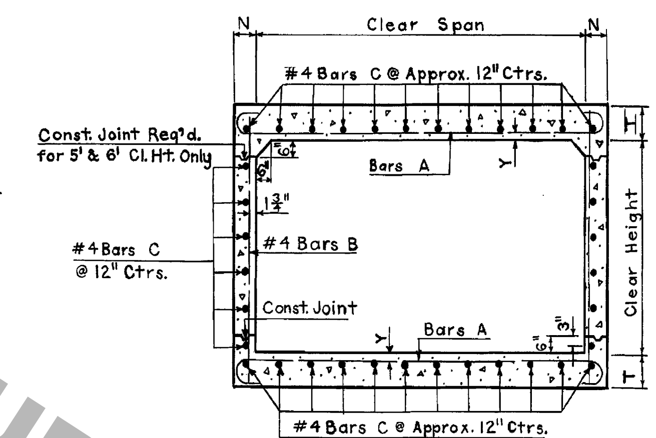
SECTION C-C



SECTION A-A



SECTION B-B



SECTION THRU BARREL

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.

C.C.S.S. 8-10-R-75°-1

APPROVED BY:
Dempsey D. White (signature) 1-11-78
CHIEF ENGINEER DATE

DIMENSIONS

Clear Span (Ft.)	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

BILL OF REINFORCING STEEL FOR 44'-0" CULVERT — BARREL REINFORCEMENT

Clear Span	Clear Height	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
8	5	#6	212	10-0 1/2	5	#6	16	3-2	18.6667	7-10	5	92	6-4	12	28	47-2
8	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
9	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
10	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 (lengths in Ft.-In.)

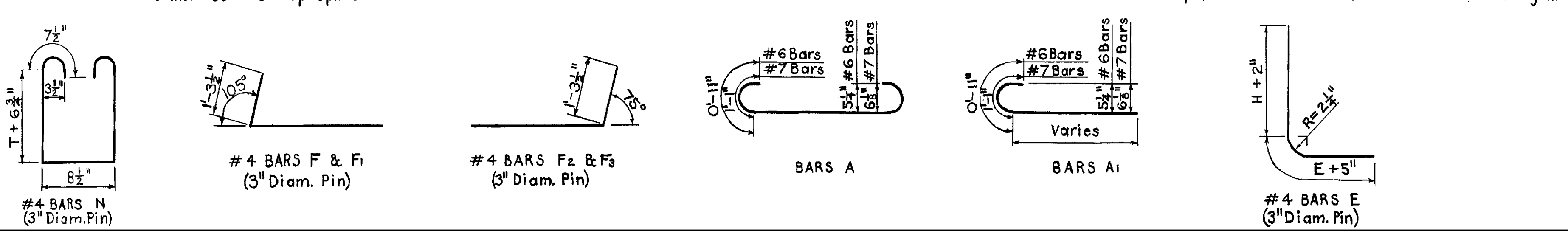
Clear Span	Clear Height	#4 Bars E No.	E Lgth.	E Spac. (In.)	#4 Bars F No.	F Lgth.	#4 Bars F1 No.	F1 Lgth.	#4 Bars F2 No.	F2 Lgth.	#4 Bars F3 No.	F3 Lgth.	#4 Bars J No.	J Lgth.	#4 Bars J1 No.	J1 Lgth.	#4 Bars N No.	N Lgth.	#4 Bars O No.	O Lgth.	#4 Bars P No.	P Lgth.	#4 Bars P1 No.	P1 Lgth.	#4 Bars P2 No.	P2 Lgth.	#4 Bars P3 No.	P3 Lgth.	#6 Bars M No.	M Lgth.	#6 Bars M1 No.	M1 Lgth.	Ⓐ#6 Bars X No.	X Lgth.
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	42	2-4	6	9-10	4	11-5	6	10-7	4	12-8	4	11-5	6	8-11	20	2-0
8	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	50	2-10	6	11-10	4	13-5	6	12-7	4	14-8	4	11-5	6	8-11	24	2-0
8	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	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	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	50	2-10	6	11-10	4	13-5	6	12-7	4	14-8	4	12-8	6	10-2	24	2-0
9	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	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	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	50	2-10	6	11-10	4	13-5	6	12-7	4	14-8	4	13-10	6	11-4	24	2-0
10	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	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

Opening Clear Span (Ft.)	Opening 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
8	5	99.56	0.7500	5747	50.58
8	6	103.44	0.8344	6282	58.98
9	5	122.30	0.8843	6791	56.96
9	6	124.97	0.9275	7272	63.45
10	5	133.28	1.0257	7343	63.67
10	6	135.95	1.0751	7825	70.45

① Includes 1'-6" Lap Splice

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



Date	Description	By
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.

REVISIONS

STANDARD PLAN
REINFORCED CONCRETE BOX CULVERT
STRAIGHT WINGS 75° CROSSING
2:1 SPILL SLOPE
8' TO 10' SPANS 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

FOR INFORMATIONAL PURPOSES ONLY