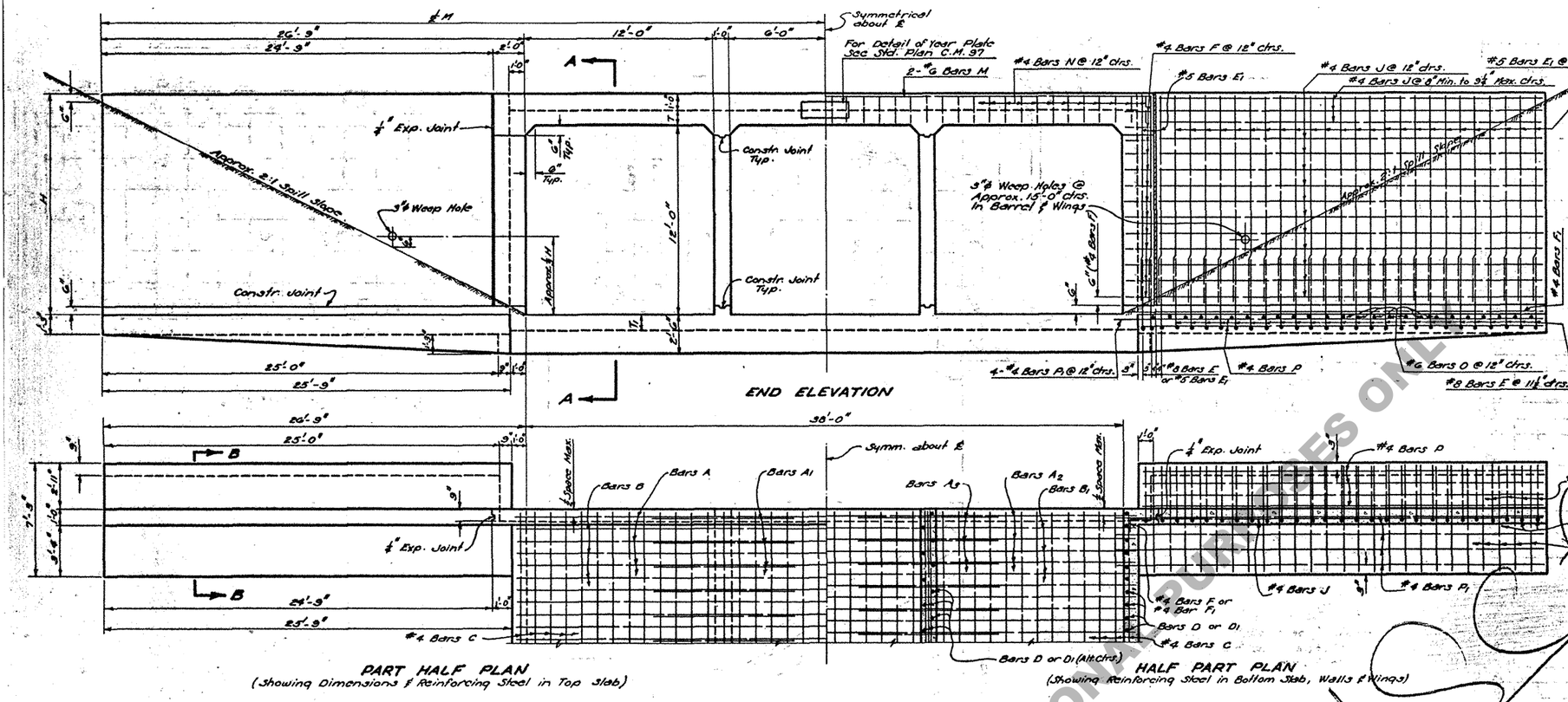
STATE PROJECT	PARISH	SHEET NO.



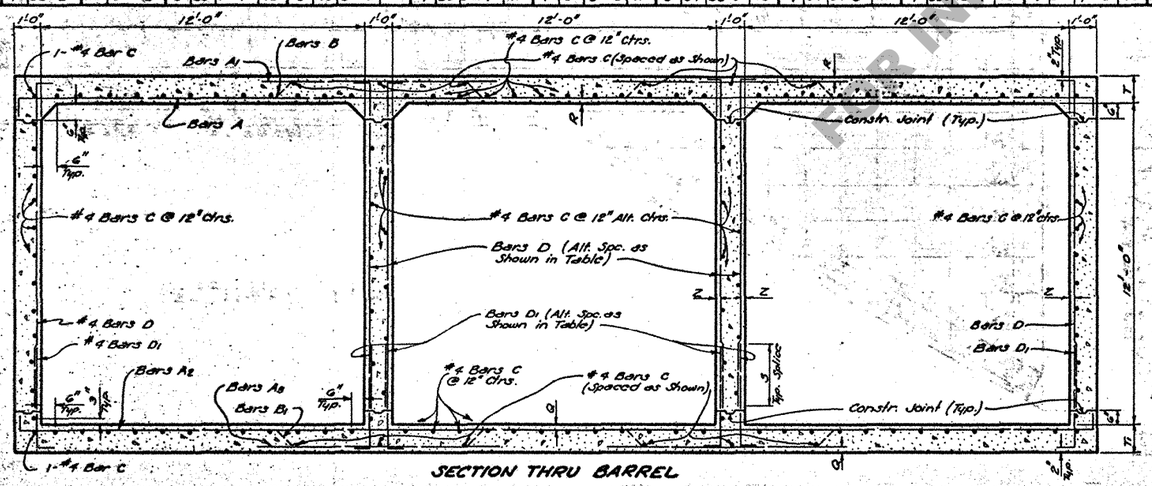
GENERAL NOTES:
CONSTRUCTION SPECIFICATIONS: Latest approved La. Dept. of Highways Std. Specs.
DESIGN SPECIFICATIONS: A.A.S.H.O. Std. Specs. for Hwy Bridges, 1957, as amended to Dec. 31, 1959.
Live Load: H20-S16-44.
All Concrete to be Class "A".
Reinforcement Bars shall be Intermediate or Hard Grade, A.S.T.M. A15, or Rail Steel, A.S.T.M. A16 conforming with A.S.T.M. A305.
All dimensions relating to reinforcing steel are to bar centers.
All exposed corners to be chamfered ¾" unless otherwise noted.
Cost of expansion material to be included in price bid for other items.
Place approx. 2 cubic feet of large size gravel or loose rock behind and around each weep hole.
For details of expansion and construction joint, see Std. Plan C.M. 49.

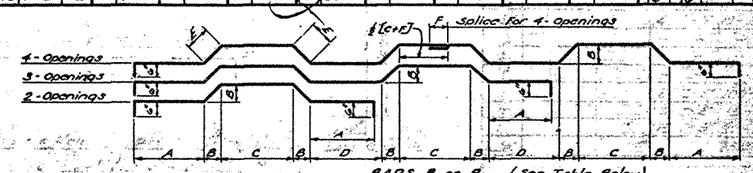
DO NOT USE (DISCONTINUED) SEE NEW CC. 34-20 DATED 5-12-60 CEA

* Splice is Included

MAX. FILL	No. Openings	CURB REINFORCEMENT #4 BARS M NO.	LENGTH FT. IN.	#4 BARS N NO.	LENGTH FT. IN.	BARREL REINFORCEMENT FOR 44'-0" CULVERT BARS A SIZE	NO.	LENGTH FT. IN.	SPC. IN.	BARS A₁ SIZE	NO.	LENGTH FT. IN.	SPC. IN.	BARS A₂ SIZE	NO.	LENGTH FT. IN.	SPC. IN.	BARS A₃ SIZE	NO.	LENGTH FT. IN.	SPC. IN.	BARS B SIZE	NO.	LENGTH FT. IN.	SPC. IN.	BARS B₁ SIZE	NO.	LENGTH FT. IN.	SPC. IN.	BARS D SIZE	NO.	LENGTH FT. IN.	SPC. IN.	BARS D₁ SIZE	NO.	LENGTH FT. IN.	SPC. IN.	#4 BARS C SIZE	NO.	LENGTH FT. IN.	SPC. IN.
5	2	4	28'-8"	58	5'-2"	#7	40	27'-8"	14	#7	40	8'-8"	14	#8	35	27'-8"	16	#8	35	9'-0"	16	#7	39	28'-1"	14	#8	34	28'-2"	16	#6	159	12'-6"	10½	#6	159	4'-2"	10½	94	47'-2*	12
	3	4	43'-2*	84	5'-2"	#8	29	40'-8"	19	#8	58	9'-0"	19	#8	33	40'-8"	17	#8	66	9'-0"	17	#8	29	41'-5"	19	#8	32	41'-6"	17	#6	212	12'-5"	10½	#6	212	4'-0"	10½	136	47'-2*	12
	4	4	56'-2*	110	5'-2"	#8	29	56'-7*	19	#8	87	9'-0"	19	#8	33	56'-7*	17	#8	99	9'-0"	17	#8	29	57'-9*	19	#8	32	57'-10*	17	#6	265	12'-5"	10½	#6	265	4'-0"	10½	178	47'-2*	12
10	2	4	28'-8"	58	5'-2"	#9	31	27'-8"	18	#9	31	9'-4"	18	#8	43	27'-8"	13	#8	43	9'-0"	13	#9	30	28'-2"	18	#8	42	28'-4"	13	#7	168	12'-8"	10	#7	168	4'-7"	10	94	47'-2*	12
	3	4	43'-2*	84	5'-2"	#8	35	40'-8"	16	#8	70	9'-0"	16	#7	50	40'-8"	11	#7	100	8'-8"	11	#8	34	41'-8"	16	#7	50	41'-8"	11	#7	224	12'-7"	10	#7	224	4'-6"	10	136	47'-2*	12
	4	4	56'-2*	110	5'-2"	#8	35	56'-7*	16	#8	105	9'-0"	16	#7	50	56'-7*	11	#7	150	8'-8"	11	#8	34	58'-0*	16	#7	50	57'-9*	11	#7	280	12'-7"	10	#7	280	4'-6"	10	178	47'-2*	12

MAX. FILL	No. Openings	WING REINFORCEMENT #8 BARS E NO.	LENGTH FT. IN.	#5 BARS E₁ NO.	LENGTH FT. IN.	#4 BARS F NO.	LENGTH FT. IN.	#4 BARS F₁ NO.	LENGTH FT. IN.	#4 BARS J NO.	LENGTH FT. IN.	#4 BARS P NO.	LENGTH FT. IN.	#4 BARS P₁ NO.	LENGTH FT. IN.	#6 BARS O NO.	LENGTH FT. IN.	DIMENSIONS BARREL Z IN.	Q IN.	R IN.	S FT. IN.	T IN.	T₁ IN.	WINGS & CURBS M FT. IN.	X FT. IN.	Y FT. IN.	Z FT. IN.
5	2	112	7'-10	112	12'-1	52	2'-8	4	27'-4	56	24'-5	20	25'-4	16	27'-1	100	6'-10	1⅞	2	1 25/16	2'-2	10½	11½	7'-8	1'-10½	1'-6½	13'-10½
	3	112	7'-10	112	12'-0	52	2'-8	4	27'-4	56	24'-5	20	25'-4	16	27'-1	100	6'-10	1⅞	2	2	2'-2	9½	10"	9'-6	1'-9½	1'-8	13'-9½
	4	112	7'-10	112	12'-0	52	2'-8	4	27'-4	56	24'-5	20	25'-4	16	27'-1	100	6'-10	1⅞	2	2	2'-2	9½	10"	10'-6	1'-9½	1'-8	13'-9½
10	2	112	7'-10	112	12'-2	52	2'-8	4	27'-4	56	24'-5	20	25'-4	16	27'-1	100	6'-10	1 15/16	2	2 1/16	2'-6½	12	13	7'-8	2'-0	1'-5	14'-0
	3	112	7'-10	112	12'-1	52	2'-8	4	27'-4	56	24'-5	20	25'-4	16	27'-1	100	6'-10	1 15/16	1 15/16	2	2'-6½	11	11½	9'-6	1'-11	1'-6½	13'-11
	4	112	7'-10	112	12'-1	52	2'-8	4	27'-4	56	24'-5	20	25'-4	16	27'-1	100	6'-10	1 15/16	1 15/16	2	2'-6½	11	11½	10'-6	1'-11	1'-6½	13'-11





BARS B or B₁ (See Table Below)

MAX. FILL	No. Openings	BARS B A	B	C	D	E	F	BARS B₁ A	B	C	D	E	F	BARS D G	BARS D₁ K
5	2	9'-6⅜"	6⅜"	6'-5⅜"		9⅜"		9'-6¼"	7⅛"	6'-4½"		10⅜"		12'-0"	3'-8"
	3	9'-7½"	5⅜"	6'-6⅜"	5'-6⅜"	7⅜"		9'-7"	6"	6'-6"	5'-6"	8⅜"		11'-11"	3'-6"
	4	9'-7½"	5⅜"	6'-6⅜"	5'-6⅜"	7⅜"	2'-11"	9'-7"	6"	6'-6"	5'-6"	8⅜"	2'-11"	11'-11"	3'-6"
10	2	9'-6"	7⅜"	6'-4⅜"		11⅜"		9'-5⅜"	9"	6'-1⅜"		12⅜"		12'-2"	4'-1"
	3	9'-6⅜"	7"	6'-5"	5'-5"	9⅜"		9'-6⅜"	7⅜"	6'-4⅜"	5'-4⅜"	10⅜"		12'-1"	4'-0"
	4	9'-6⅜"	7"	6'-5"	5'-5"	9⅜"	2'-11"	9'-6⅜"	7⅜"	6'-4⅜"	5'-4⅜"	10⅜"	2'-6½"	12'-1"	4'-0"

26'-4"		Bars F₁
1'-6"		Bars F

#4 BARS F & F₁

G		Bars O
K		Bars D₁

BARS D & D₁

MAX. FILL	No. Openings	QUANTITIES PER LIN. FOOT BARREL STEEL LBS.	CONCRETE CU. YDS.	FOR 44'-0" CULVERT STEEL LBS.	CONCRETE CU. YDS.
5	2	391.31	3.1852	24893	240.67
	3	661.13	4.2130	32860	283.84
	4	764.67	5.4491	42400	348.87
10	2	497.44	3.4352	28818	252.31
	3	681.61	4.5833	38450	307.08
	4	924.85	5.9338	49821	371.55

DATE	DESCRIPTION	BY

REVISIONS

STANDARD PLAN
MULTIPLE 12' x 12' OPENINGS
REINFORCED CONCRETE BOX CULVERTS
STRAIGHT WINGS 90° CROSSING
2:1 SPILL SLOPE NORMAL TO CHANNEL
DATED April 22, 1960

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS
DESIGNED P. H. Wise DETAILED P. H. Wise TRACED C. Hibbs
CHECKED M. G. Cline CHECKED M. G. Cline CHECKED P. H. Wise
BRIDGE DESIGN SECTION

C.C. 34-20

FOR INFORMATION PURPOSES ONLY