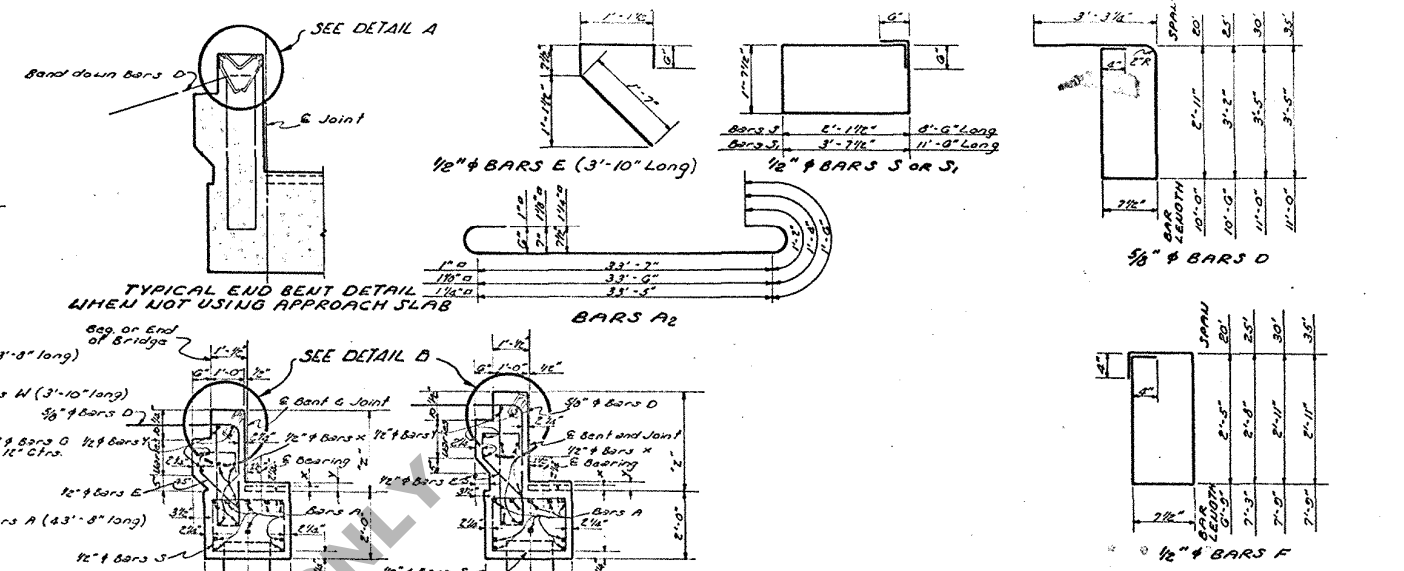
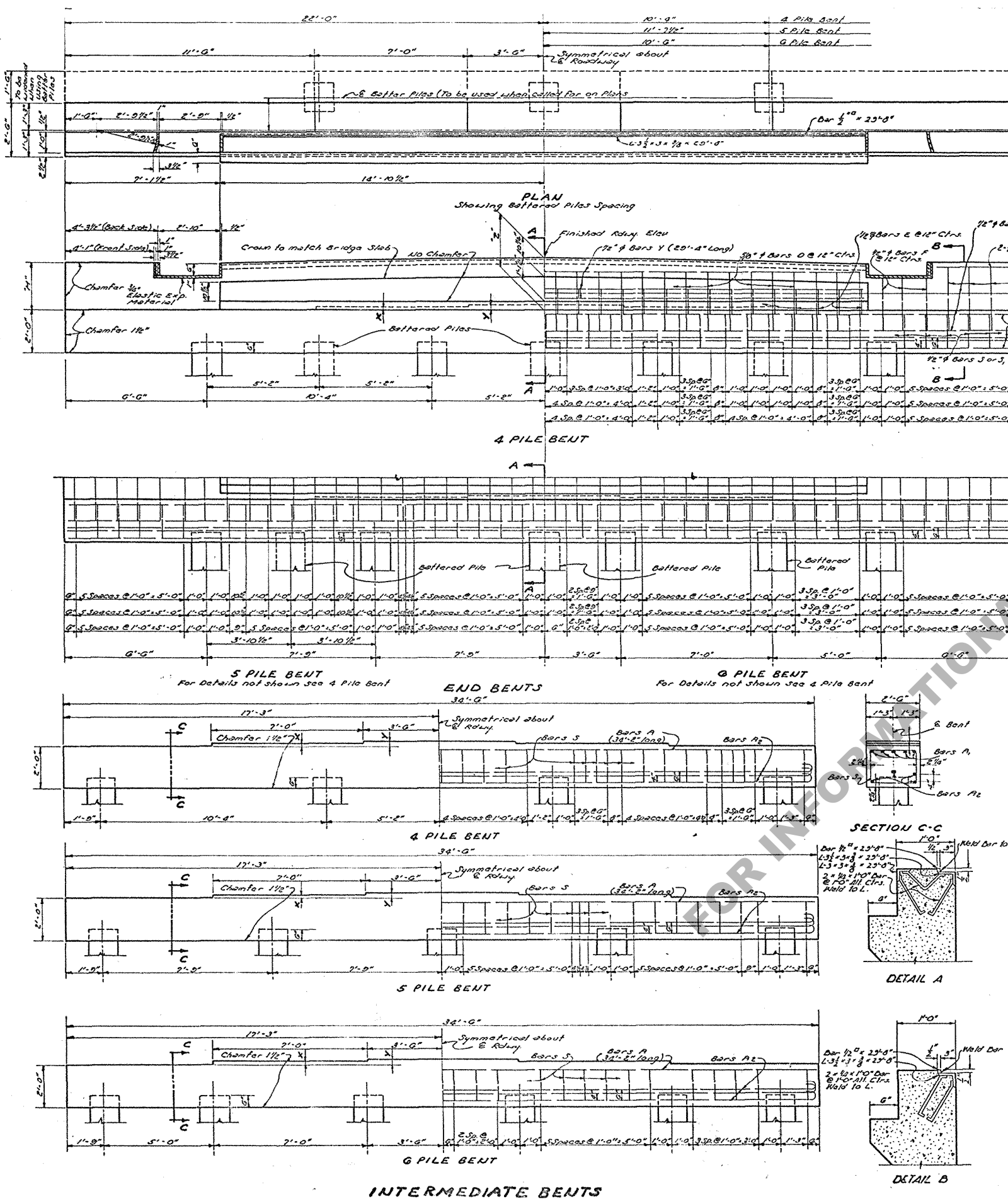




SIZE OF BARS A₁-A₂

SPAN FEET	BENT		
	4 PILE	5 PILE	6 PILE
20	1 1/2"	-	-
25	1 1/4"	1"	-
30	-	1 1/2"	1"
35	-	1 1/4"	1 1/2"

TYPE OF END BENT REQUIRED

END BENT	GROUND TO GRADE FEET	SUBSOIL	BATTERED PILES
TYPE 1	0-5	Poor	0
	0-6	Good	-
TYPE 2	5-10	Poor	2
	0-10	Good	-
TYPE 3	10+	Poor	3
	10+	Good	-

END BENT QUANTITIES - DIMENSIONS** AND PILE LOADS*																													
SPAN	DIMENSIONS			4 PILES								5 PILES								6 PILES								FAB. CARBON STEEL LBS	SPAN
	"Z"	"H"	Feet	TYPE				AV PILE LOAD TONS	TYPE				AV PILE LOAD TONS	TYPE				AV PILE LOAD TONS											
				ONE	TWO	THREE	ONE		TWO	THREE	ONE	TWO		THREE															
															CLASS A CONC. Cu Yds.	Def. Reinf. Steel Lbs.	CLASS A CONC. Cu Yds.		Def. Reinf. Steel Lbs.	CLASS A CONC. Cu Yds.	Def. Reinf. Steel Lbs.	CLASS A CONC. Cu Yds.	Def. Reinf. Steel Lbs.						
																								CLASS A CONC. Cu Yds.	Def. Reinf. Steel Lbs.	CLASS A CONC. Cu Yds.	Def. Reinf. Steel Lbs.		
20	2'-4 1/2"	2'-2"	12.47	28.40	17.47	32.94	17.44	32.66	22.7	-	-	-	-	-	-	-	-	-	-	-	-	315	20						
25	2'-7 1/2"	2'-5"	12.20	33.01	17.20	38.44	17.87	38.36	32.0	12.87	24.37	17.87	28.03	17.84	28.03	25.7	-	-	-	-	-	315	25						
30	2'-10 1/2"	2'-8"	-	-	-	-	-	-	-	13.28	28.52	18.30	32.90	18.20	32.90	28.0	13.25	24.34	18.27	28.07	18.24	28.00	24.0	30					
35	2'-10 1/2"	2'-8"	-	-	-	-	-	-	-	13.30	32.93	18.33	32.96	18.23	32.96	31.7	13.27	28.25	18.30	32.81	18.27	32.81	28.4	35					

* To provide for future extension of bridge. The end bents are designed for same load as intermediate bents.
 ** When not using Approach Slab, add 240 lbs. of Fabricated Carbon Steel.

INTERMEDIATE BENT QUANTITIES & PILE LOADS										
SPAN	4 PILES			5 PILES			6 PILES			SPAN
	Class A Conc. Cu Yds	Def Reinf. Steel Lbs	AV PILE LOAD TONS	Class A Conc. Cu Yds	Def Reinf. Steel Lbs	AV PILE LOAD TONS	Class A Conc. Cu Yds	Def Reinf. Steel Lbs	AV PILE LOAD TONS	
Feet										Feet
20	0.50	1723	27.7	—	—	—	—	—	—	20
25	0.50	2005	32.0	0.50	1373	25.7	—	—	—	25
30	—	—	—	0.50	1695	20.8	0.53	1350	24.0	30
35	—	—	—	0.54	2057	31.7	0.51	1872	28.4	35

Max. Pile Load Unless Otherwise Instructed By En Design Section.
 14" R.C. Piles = 28 Tons
 16" R.C. Piles = 32 Tons
 18" R.C. Piles = 36 Tons

RISER DIMENSIONS

SPAN	X	Y
FEET	IN	IN
20	1 1/8	2 1/8
25	1 1/8	2 1/8
30	1 1/8	2 1/8
35	1 3/4	2 3/8

GENERAL NOTES:
 Construction Specifications: Latest approved La Hwy Dept Std Specifications.
 Design Specifications: A.R.S.H.O., 1944.
 Live Load: H 20-S 10-44.
 All dimensions to Reinforcing Steel are to Bar Centers.
 Quantities computed assuming use of 10" piling.
 Cost of Expansion Material to be included in Price Bid for other items.
 All Reinforcing Steel to be Intermediate Grade.
 Notes:
 For details of Concrete Piles See Std Plan C.S. 149.

**STANDARD PLAN
 REINFORCED CONCRETE PILE BENT
 FOR 1-8M SPANS - H 20-S 10-44 LOADING
 30'-0" CLEAR ROADWAY 1'-6" SIDEWALKS
 20 FT TO 35 FT SPANS
 TO BE USED WITH STD. PLAN S-C-42-20 REVISED
 DATED: 1944, 1947**

**STATE OF LOUISIANA
 DEPARTMENT OF HIGHWAYS**

DATE	DESCRIPTION	BY	DESIGNED	CHECKED	TRACED
9/27/51	Added Cover & ...	Loupin	...	...	...
5-5-49	...	...	...	...	...
6-22-49	...	...	...	...	...
7-11-47	...	...	...	...	...

BRIDGE DESIGN SECTION