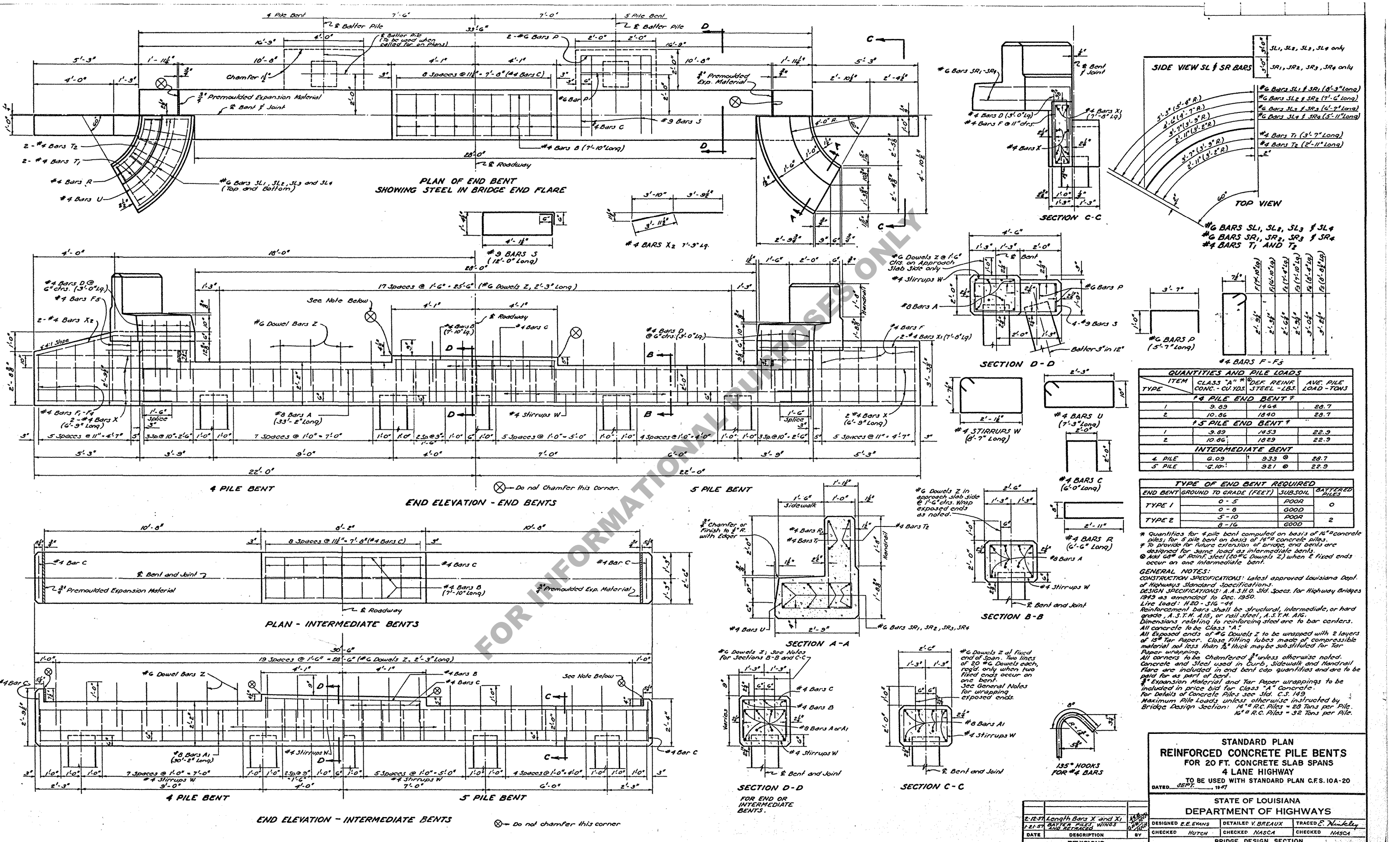




QUANTITIES AND PILE LOADS

ITEM	CLASS "A" CONC. - CU. YDS.	DEF. REINF. STEEL - LBS.	AVE. PILE LOAD - TONS
#4 PILE END BENT			
1	9.89	1464	28.7
2	10.86	1840	28.7
#5 PILE END BENT			
1	9.89	1453	22.9
2	10.86	1829	22.9
INTERMEDIATE BENT			
4 PILE	6.09	933	28.7
5 PILE	6.10	921	22.9

TYPE OF END BENT REQUIRED

END BENT	GROUND TO GRADE (FEET)	SUBSOIL	BATTERED PILES
TYPE 1	0 - 5	POOR	0
	5 - 8	GOOD	0
TYPE 2	8 - 10	POOR	2
	10 - 16	GOOD	2

* Quantities for 4 pile bent computed on basis of 14" concrete piles; for 5 pile bent on basis of 14" concrete piles.
 * Provide for future extension of bridge, and bents are designed for same load as intermediate bents.
 * Add 68% of Reinf. steel (20% G DOWELS Z) when 2 fixed ends occur on one intermediate bent.
GENERAL NOTES:
 CONSTRUCTION SPECIFICATIONS: Latest approved Louisiana Dept. of Highways Standard Specifications.
 DESIGN SPECIFICATIONS: A.A.S.H.O. Std. Specs. for Highway Bridges 1943 as amended to Dec. 1950.
 Live Load: 1420 - 216.
 Reinforcement bars shall be structural, intermediate, or hard grade, A.S.T.M. A15, or rail steel, A.S.T.M. A16.
 Dimensions relating to reinforcing steel are to bar centers.
 All concrete to be Class "A".
 All exposed ends of #6 DOWELS Z to be wrapped with 2 layers of 19# Tar Paper. Close fitting tubes made of compressible material not less than 1/8" thick may be substituted for Tar Paper wrapping.
 All corners to be chamfered 3/8" unless otherwise noted.
 Concrete and steel used in Curb, Sidewalk and Handrail flares are included in end bent cap quantities and are to be paid for as part of bent.
 Expansion Material and Tar Paper wrappings to be included in price bid for Class "A" Concrete.
 For Details of Concrete Piles see Std. C.S. 149.
 Maximum Pile Loads unless otherwise instructed by Bridge Design Section: 14" R.C. Piles - 28 Tons per Pile.
 16" R.C. Piles - 32 Tons per Pile.

STANDARD PLAN REINFORCED CONCRETE PILE BENTS FOR 20 FT. CONCRETE SLAB SPANS 4 LANE HIGHWAY
 TO BE USED WITH STANDARD PLAN C.F.S. 10A-20
 DATED: SEP. 1947

STATE OF LOUISIANA
 DEPARTMENT OF HIGHWAYS

DESIGNED E.E. EWANS	DETAILED V. BREAU	TRACED E. Nixley
CHECKED HUTCH	CHECKED NASCA	CHECKED NASCA

BRIDGE DESIGN SECTION