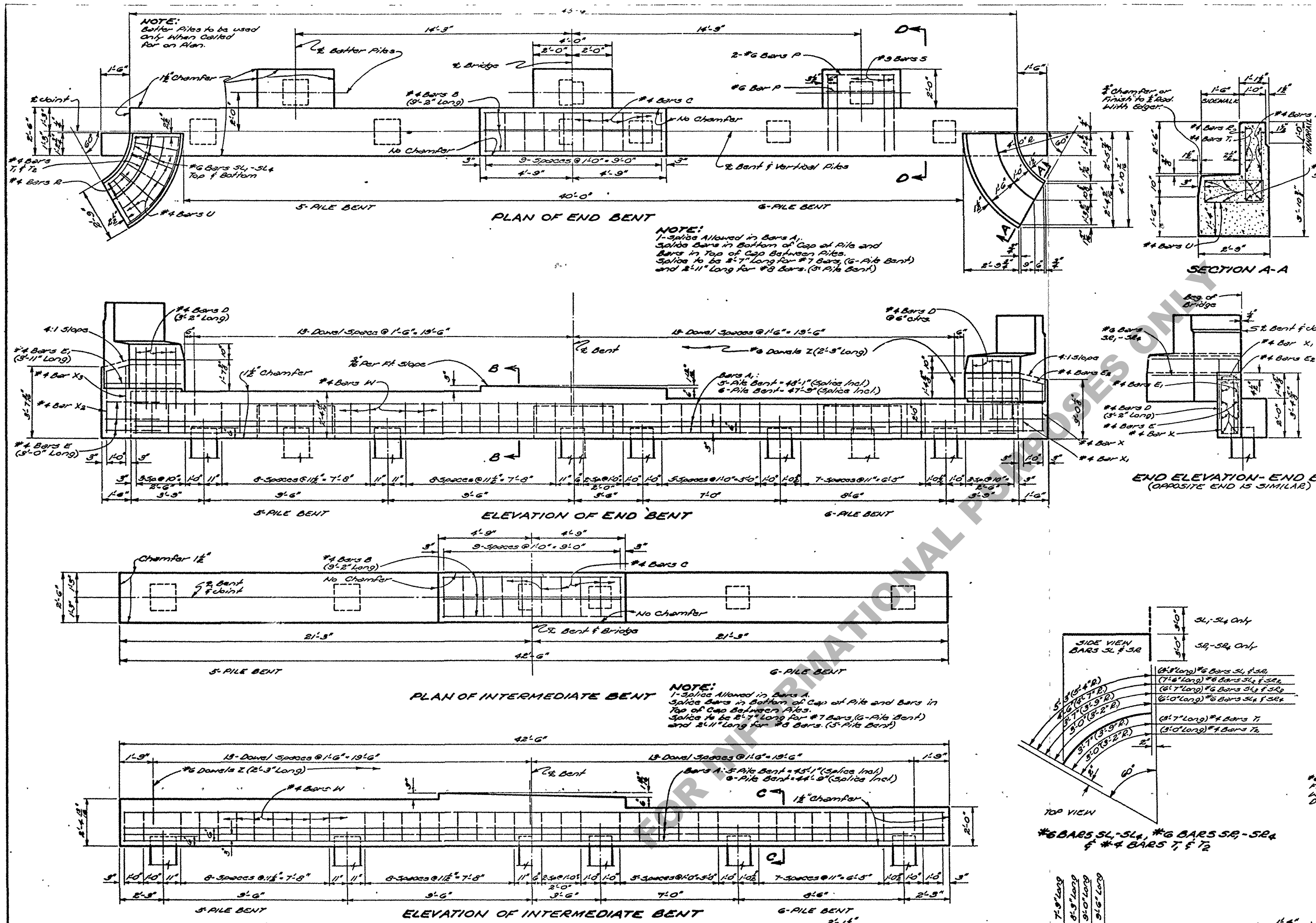
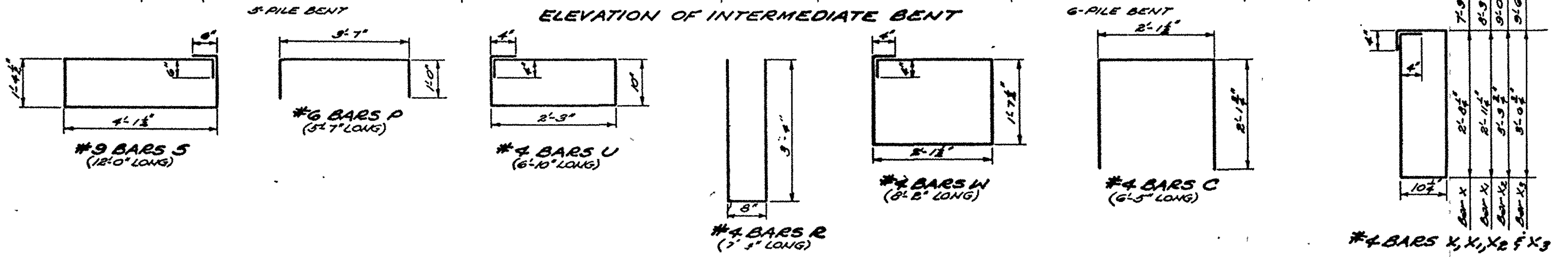
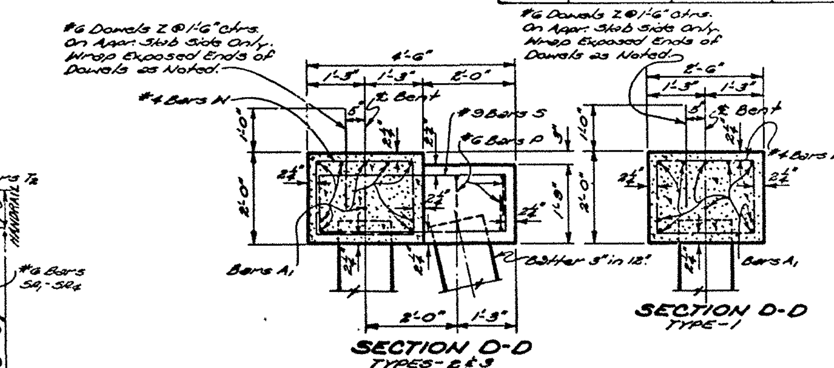






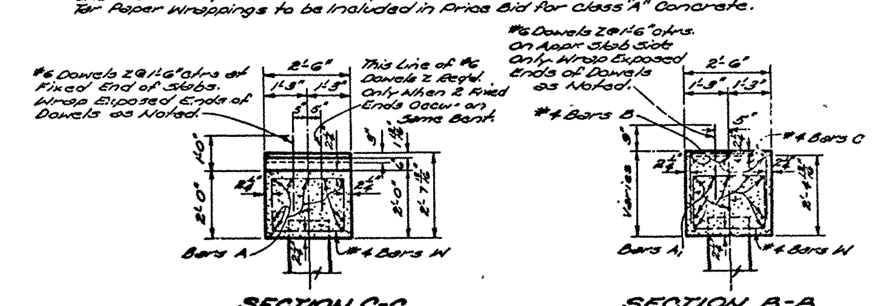
TYPE OF END BENT REQUIRED			
END BENT	GROUND TO GRADE (FEET)	SUBSOIL	BATTERED PILES
Type 1	0-5	Poor	0
	0-8	Good	
Type 2	5-10	Poor	2
	8-16	Good	
Type 3	10+	Poor	3
	16+	Good	

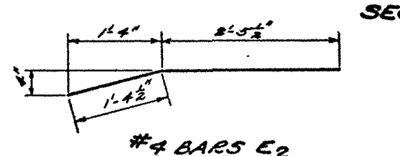
QUANTITIES AND PILE LOADS				
ITEM / TYPE	SIZE OF BARS A & A1	CLASS "A" CONCRETE* (CU. YDS)	DEFORMED REINF STEEL (LBS)	AVERAGE PILE LOAD (TONS)
5-PILE END BENT ‡				
Type 1	#8	12.74	2069	32.2
Type 2	#8	13.71	2441	32.2
Type 3	#8	14.20	2?29	32.2
6-PILE END BENT ‡				
Type 1	#7	12.75	1745	26.8
Type 2	#7	12.74	2122	26.?
Type 3	#7	14.23	2310	26.?
INTERMEDIATE BENT				
5-Pile	#8	8.82	1574 •	32.2
6-Pile	#7	8.84	1274 •	26.8

* Quantities Computed Assuming 14" □ R.C. Piles for a 6-Pile Bent and 16" □ R.C. Piles for a 5-Pile Bent.
‡ To Provide for Future Extension of Bridge, End Bents are Designed for Same Load as Intermediate Bents.
• Add 91# of Reinforcing Steel (27-#6 Dowels Z) When 2 Fixed Ends Occur on an Intermediate Bent.

GENERAL NOTES:

Construction Specifications: Latest Approved La. Dept. of Highways Std. Specifications.
Design Specifications: A.A.S.H.O. 1953 as Amended to Dec. 31, 1955.
Live Load: H20-S16-44 (Modified)
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.
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 15# Tar Paper. Close Fitting Tubes Made of Compressible Material Not Less than 1/4" thick may be Substituted.
For Details of Concrete Piles see Std. Plan as Shown on General Plan.
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.
Concrete and Steel in SIDEWALK CURB FLARE and HANDRAIL FLARE are Included in Bent Cap Quantities and are to be Paid for as Part of the Bent.
Chamfer all Exposed Corners 3/4" Unless Otherwise Noted.
Tar Paper Wrappings to be Included in Price Bid for Class "A" Concrete.





DESIGN TAKEN FROM STD. PLAN
I-BCFS15C-90-40T
DATED JULY 2, 1957

DATE	DESCRIPTION	BY
4-22-60	Misc. Details	
11-24-59	Flare, Quantities, Pile Loads	CA/ER.

REVISIONS

BRIDGES UNDER 150 FT.

STANDARD PLAN
PRECAST CONCRETE PILE BENTS
FOR 20' CONCRETE SLAB SPANS
LIVE LOAD H20-S16-44 MODIFIED
40'-0" ROADWAY 1'-6" SIDEWALKS
2-LANE RDWY.
DATED Aug. 2, 1957

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED | DETAILED | TRACED
CHECKED | CHECKED | CHECKED

BRIDGE DESIGN SECTION

I-BCFS15A-90-40T