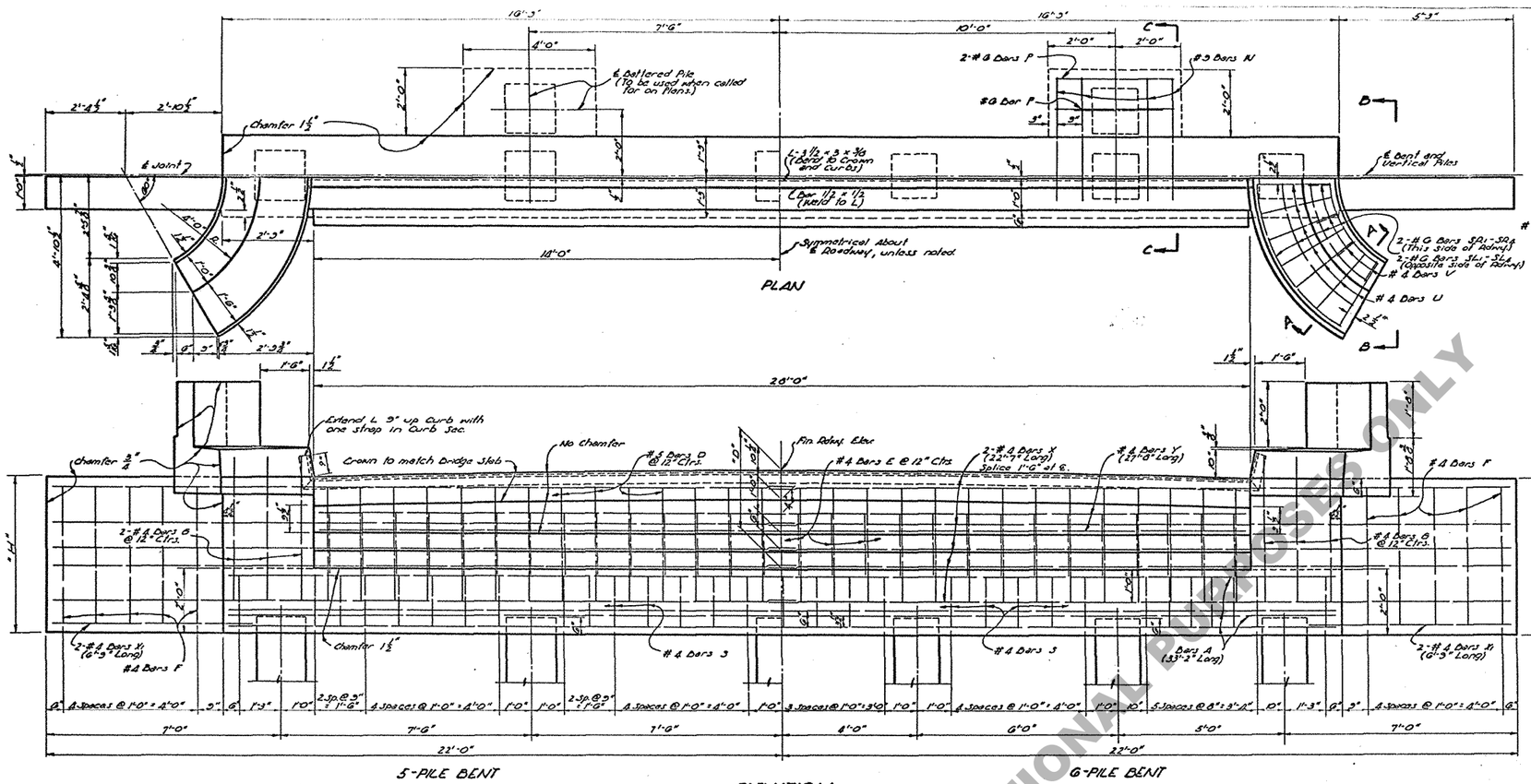

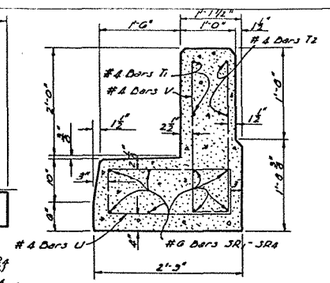

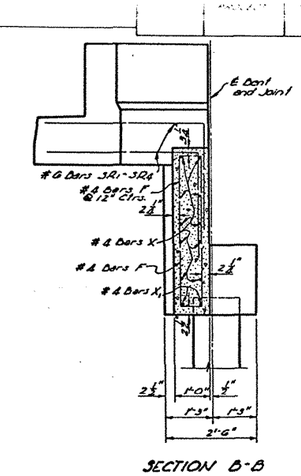

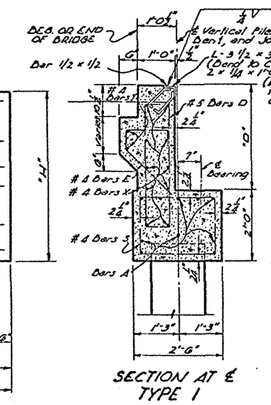

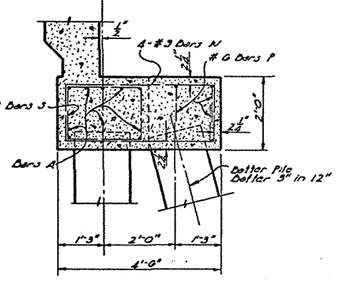

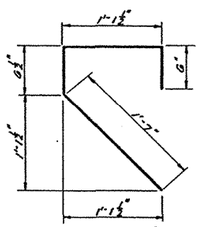

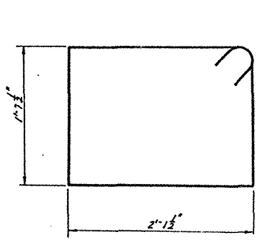

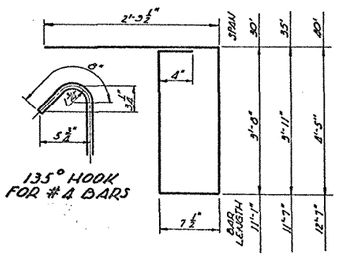

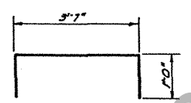

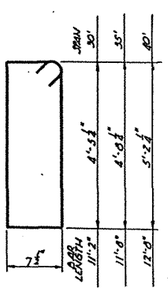

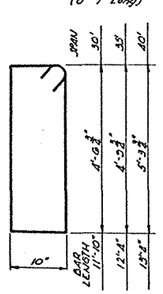

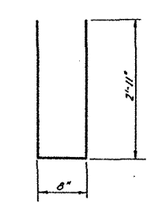

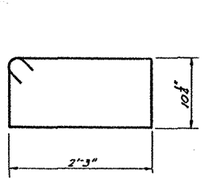

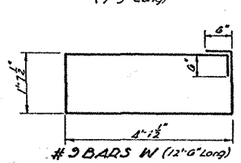

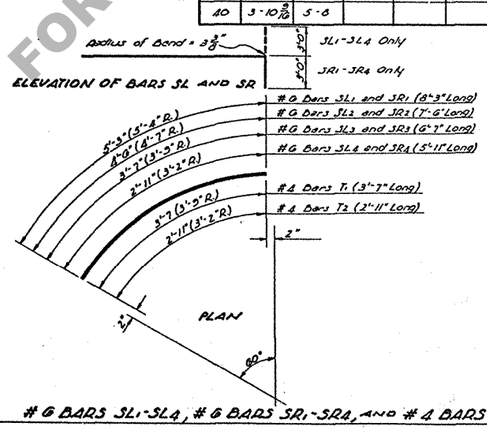

END BENT QUANTITIES – DIMENSIONS – PILE LOADS

SPAN	DIMENSIONS "D"	DIMENSIONS "H"	5-PILES SIZE OF "A" BARS	5-PILES TYPE ONE CLASS "A" CONC.	5-PILES TYPE ONE DEF. REIN. STEEL	5-PILES TYPE TWO CLASS "A" CONC.	5-PILES TYPE TWO DEF. REIN. STEEL	5-PILES AV. PILE LOAD	6-PILES SIZE OF "A" BARS	6-PILES TYPE ONE CLASS "A" CONC.	6-PILES TYPE ONE DEF. REIN. STEEL	6-PILES TYPE TWO CLASS "A" CONC.	6-PILES TYPE TWO DEF. REIN. STEEL	6-PILES AV. PILE LOAD	FAB. CARBON STEEL	SPAN
FEET	FT. IN.	FT. IN.		CU. YDS.	LBS.	CU. YDS.	LBS.	TONS		CU. YDS.	LBS.	CU. YDS.	LBS.	TONS	LBS.	FEET
30	3'-1 2/16"	4'-11"	#7	14.08	2012	15.22	2402	20.9	#9	14.06	2660	15.13	2858	24.1	340	30
35	3'-4 2/16"	5'-2"	#7	14.50	2032	15.64	2422	32.6	#9	14.48	2688	15.61	2878	27.3	340	35
40	3'-10 2/16"	5'-6"							#10	15.31	2027	16.45	3217	31.3	340	40

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
	8-10	Good	

GENERAL NOTES:

Construction Specifications: Latest Approved La. Dept. of Hwys. Std. Specs.
Design Specifications: A.A.S.H.O. Std. Specs. for Highway Bridges, 1949, #1 amended to Dec. 1950.
Live Load: H20-S16-44.
Reinforcement bars shall be Intermediate or Hard Grade, A.S.T.M. A15, or Rail Steel, A.S.T.M. A16.
All dimensions to Reinforcing Steel are to bar centers.
For Details of Concrete Piles See Std. Plan C-S-143.
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 Bent.
Wing Walls are detailed for 44'-0" Crown.

Max. permitted Pile Load, unless otherwise instructed by Bridge Design Section:

14" ø R.C. Piles = 28 Tons Per Pile
16" ø R.C. Piles = 32 Tons Per Pile
18" ø R.C. Piles = 36 Tons Per Pile

To provide for future extension of Bridge, the End Bent is designed for same loads as Intermediate Bents.
Quantities computed assuming use of 14" ø Piles.

END BENTS

STANDARD PLAN
REINFORCED CONCRETE PILE BENTS
30'-0" – 35'-0" – 40'-0" SPANS
28'-0" CLEAR ROADWAY — 1'-6" SIDEWALKS
FOR R.C.D.G. SPANS H20-S16-44 LOADING
TO BE USED WITH STD. PLAN C-G-101-20

DATED: August 12, 1953

DATE	DESCRIPTION	BY
	REVISIONS	

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED Mason | DETAILED Mason | TRACED M. Moncrief
CHECKED Huey | CHECKED Huey | CHECKED Huey

BRIDGE DESIGN SECTION

SHEET 1 OF 2

C-S-5-20

FOR INFORMATIONAL PURPOSES ONLY