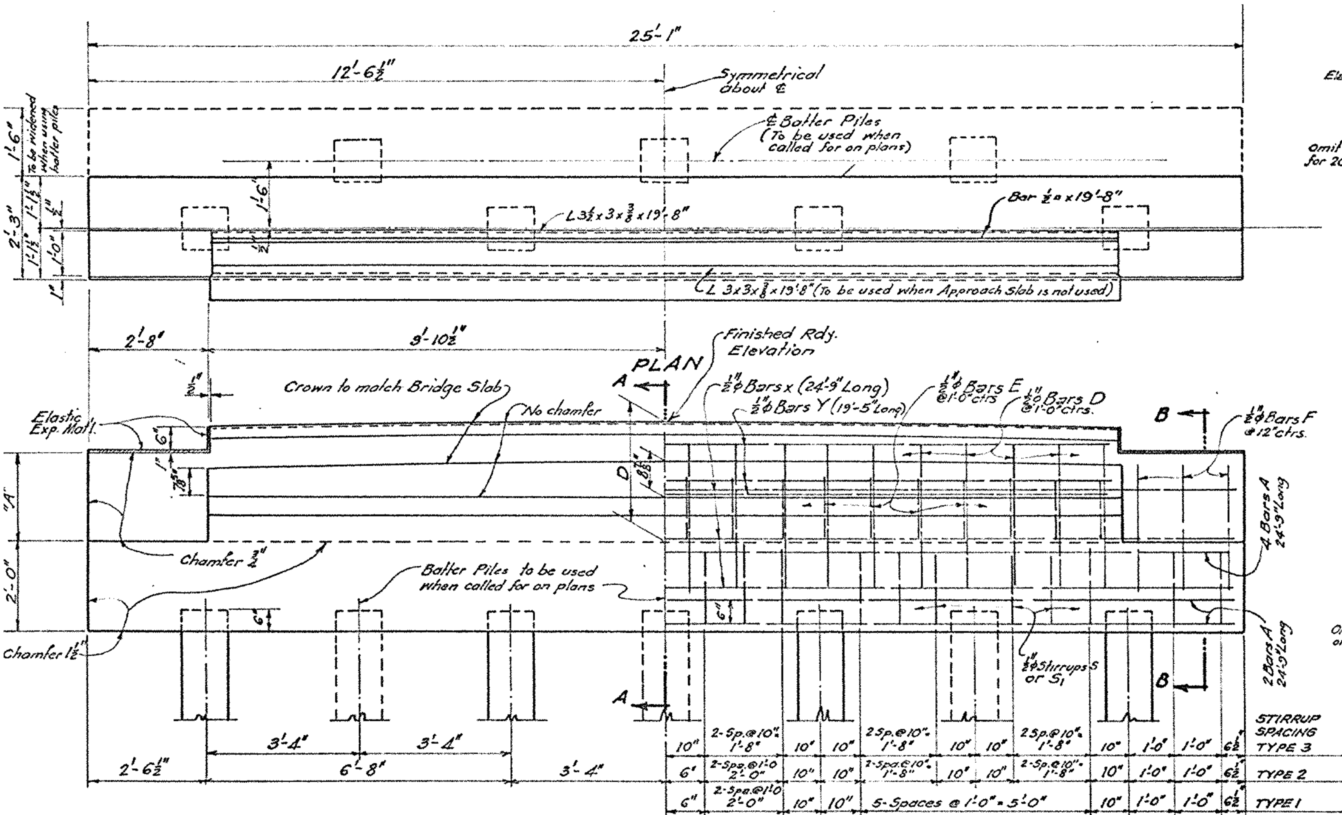
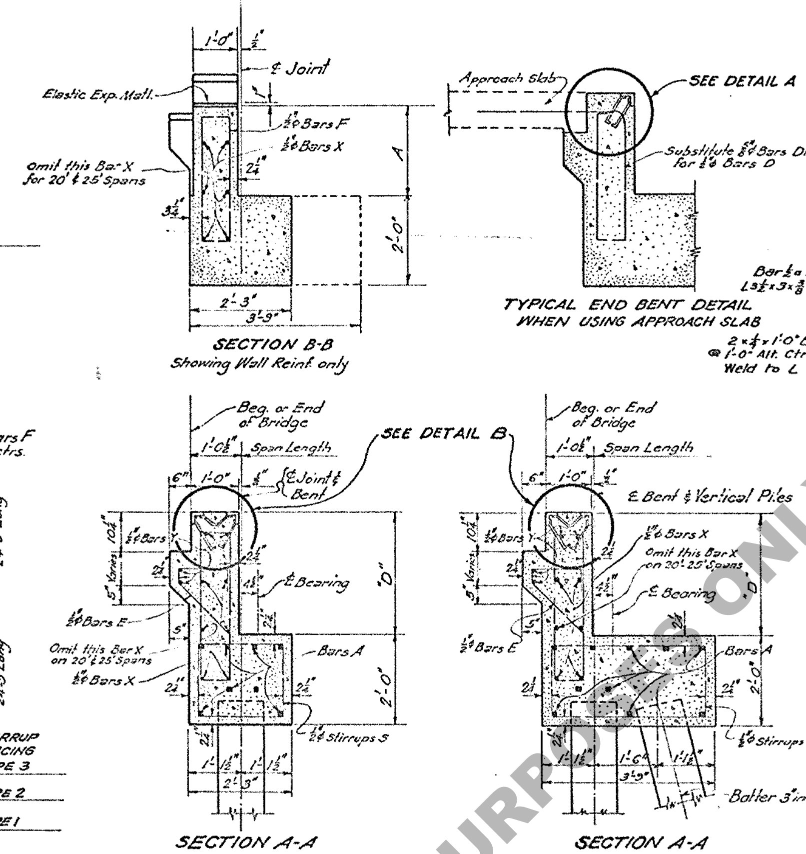


END BENT

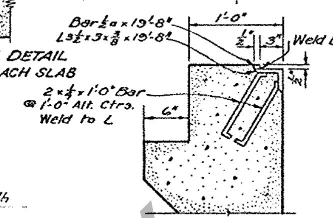


SECTION B-B Showing Wall Reinf. only

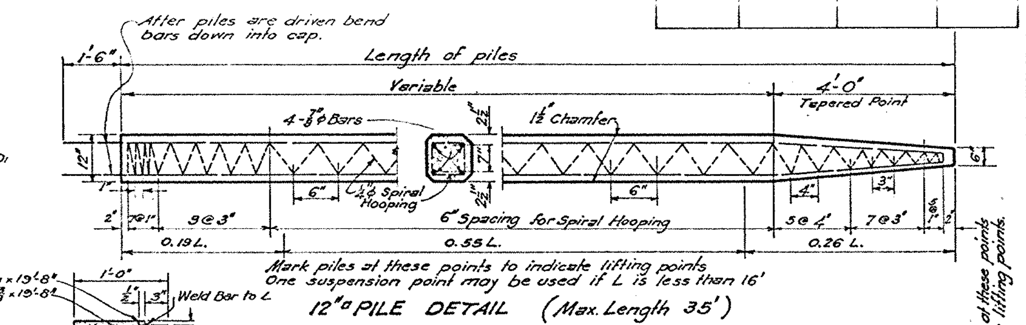
TYPICAL END BENT DETAIL WHEN USING APPROACH SLAB

SECTION A-A TYPE 1

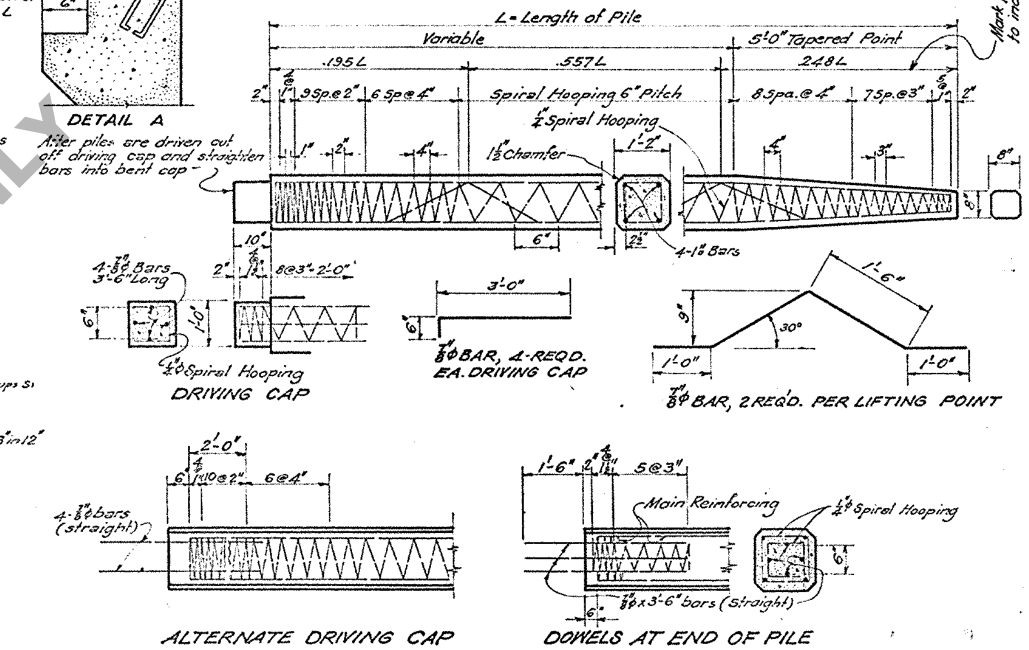
SECTION A-A TYPE 2 ~ 2-Batter Piles TYPE 3 ~ 3-Batter Piles



DETAIL A



12"□ PILE DETAIL (Max. Length 35')

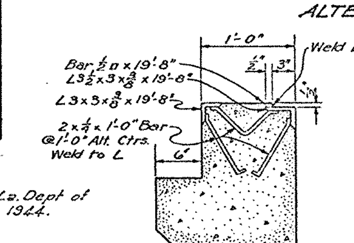


DRIVING CAP

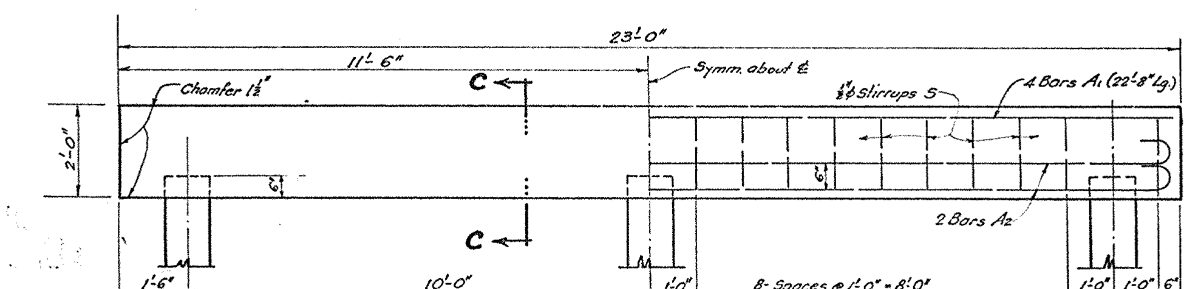
ALTERNATE DRIVING CAP

DOWELS AT END OF PILE

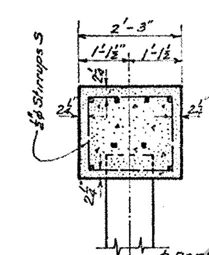
14"□ PILE DETAIL (Max. Length 45')



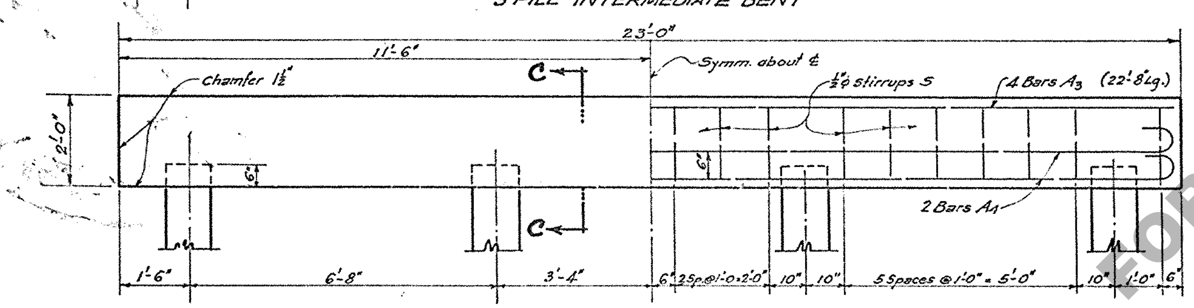
DETAIL B



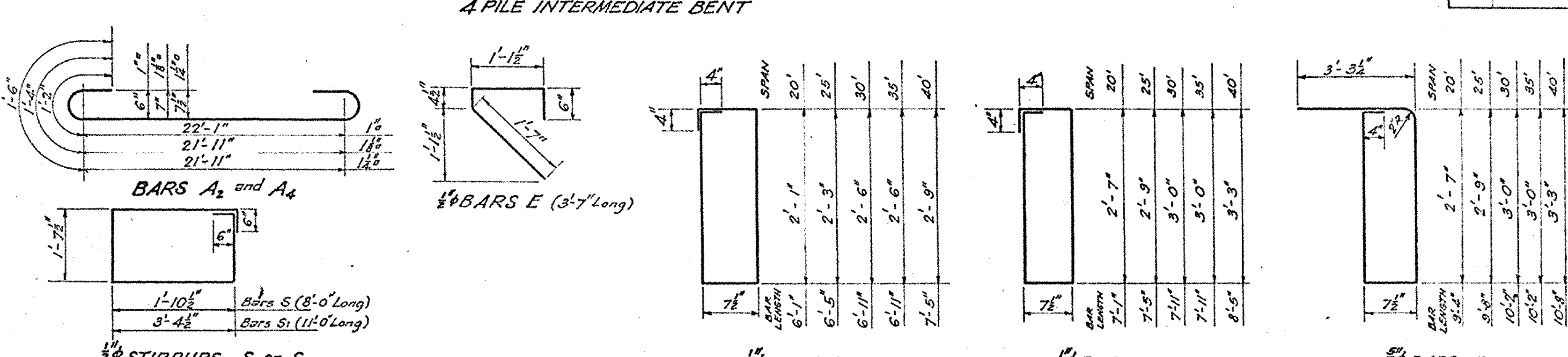
3 PILE INTERMEDIATE BENT



SECTION C-C



4 PILE INTERMEDIATE BENT



BARS A_2 and A_4 — 1/2"φ BARS E (3'-7" Long) — 1/2"φ STIRRUPS S or S_1 — 1/2"φ BARS F — 1/2"φ BARS D — 5/8"φ BARS D_1

TYPE OF END BENTS 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	

GENERAL NOTES:
Construction Specifications: Latest approved La. Dept. of Highways Std. Specs. Design Specs. A.A.S.H.O. 1944.
Live Load: H15-44.
Reinforcing Steel shall be intermediate grade.
All dimensions to Reinforcing Steel are to bar centers.
Quantities computed assuming 12"□ piles.

SIZE OF BARS			
SPAN	A	A_1 or A_2	A_3 or A_4
20'	1"□	1"□	—
25'	1"□	1¼"□	1"□
30'	1"□	—	1"□
35'	1⅛"□	—	1⅛"□
40'	1¼"□	—	1¼"□

⊕ WHEN USING APPROACH SLAB		
SPAN	DEDUCT FAB. CARBON STEEL Lbs.	ADD DEF. REINF. STEEL Lbs.
20	160	100
25	160	103
30	160	106
35	160	106
40	160	110

APPROXIMATE QUANTITIES FOR PILES						
PILE SIZES	Driving Cap Totals		Variable Part Per Lin. Ft.		Tapered Part Totals	
	Conc. Cu. Yds.	Reinf. Steel Lbs.	Conc. Cu. Yds.	Reinf. Steel Lbs.	Conc. Cu. Yds.	Reinf. Steel Lbs.
12"□	None	None	.037	9	.085	49*
14"□	.031	36	.051	15	.170	112**

*Includes steel projecting into cap

**Includes 7/8"φ bars at lifting Points

QUANTITIES ~ DIMENSIONS AND PILE LOAD ‡																	
SPAN	END BENT ⊕										INTERMEDIATE BENT						SPAN
	DIMENSIONS		TYPE						FAB CARBON STEEL	AV. PILE LOAD	THREE PILE			FOUR PILE			
	A	D	ONE		TWO		THREE										
			CLASS A CONCRETE CU. YDS.	DEF. REINF. STEEL Lbs.	CLASS A CONCRETE CU. YDS.	DEF. REINF. STEEL Lbs.	CLASS A CONCRETE CU. YDS.	DEF. REINF. STEEL Lbs.			CLASS A CONCRETE Cu. Yds.	DEF. REINF. STEEL Lbs.	AV. PILE LOAD Tons	CLASS A CONCRETE Cu. Yds.	DEF. REINF. STEEL Lbs.	AV. PILE LOAD Tons	
FEET	FT. IN	FT. IN							Lbs.	Tons							FEET
20	1 - 3⅞	2 - 0⅛	6.19	1092	8.94	1305	8.92	1305	370	15.2	3.78	747	20.3				20
25	1 - 5⅞	2 - 2⅛	6.35	1098	9.10	1310	9.09	1310	370	17.5	3.78	1118	23.3				25
30	1 - 8⅜	2 - 5⅛	6.60	1123	9.35	1336	9.33	1336	370	19.7				3.76	747	19.7	30
35	1 - 9	2 - 5¼	6.61	1302	9.36	1559	9.34	1559	370	22.0				3.76	920	22.0	35
40	1 - 11¾	2 - 8	6.84	1511	9.59	1818	9.57	1818	370	24.2				3.76	1118	24.2	40

‡ To provide for future extension of Bridge the End Bents are designed for same load as Intermediate Bents.

Max. Pile Loads Unless Otherwise Instructed By Br. Design Sec.
12"□ R.C. Piles : 24 Tons
14"□ R.C. Piles : 28 Tons

NOTE: Maximum height ground to grade with 12"□ piles equals 15'-0"; with 14"□ piles equals 20'-0".

DATE	DESCRIPTION	BY
11-27-51	Added Cover	Loup/Ell
7-6-49	Note Covering Max. Pile Loading	

REVISIONS

STANDARD PLAN

REINFORCED CONCRETE PILE BENTS FOR I BEAM SPANS H15 LOADING 20'-0" CLEAR ROADWAY 1'-6" SIDEWALKS 20' THRU 40' SPANS

TO BE USED WITH STD. PLAN S-C-58-15 REV.

DATED MARCH ... 1947

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED Huey — DETAILED Steve A. Nasca — TRACED
CHECKED Steve A. Nasca — CHECKED Huey — CHECKED Huey

BRIDGE DESIGN SECTION

C-S-192-15