

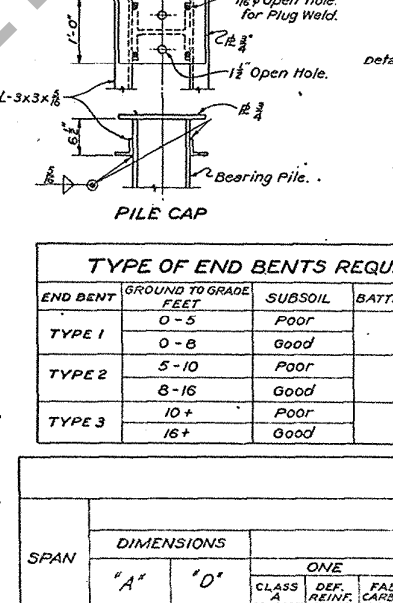
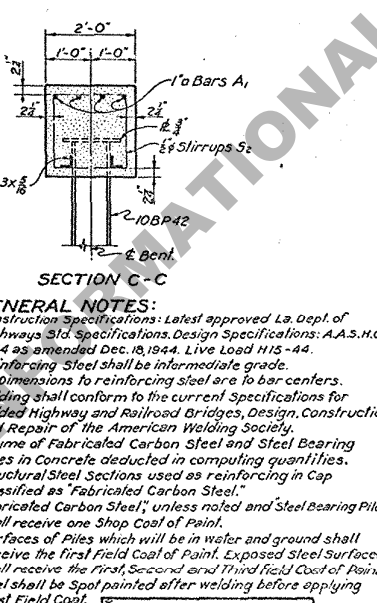
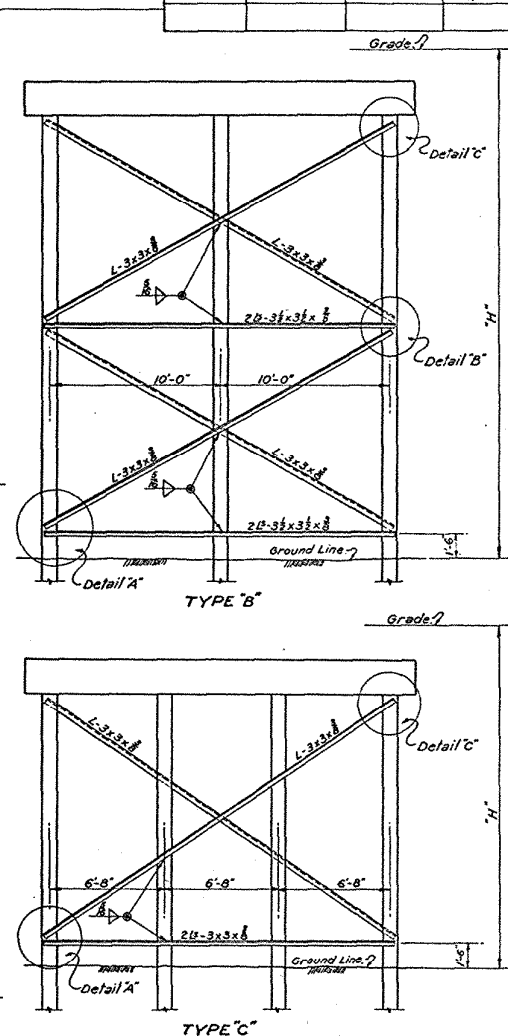
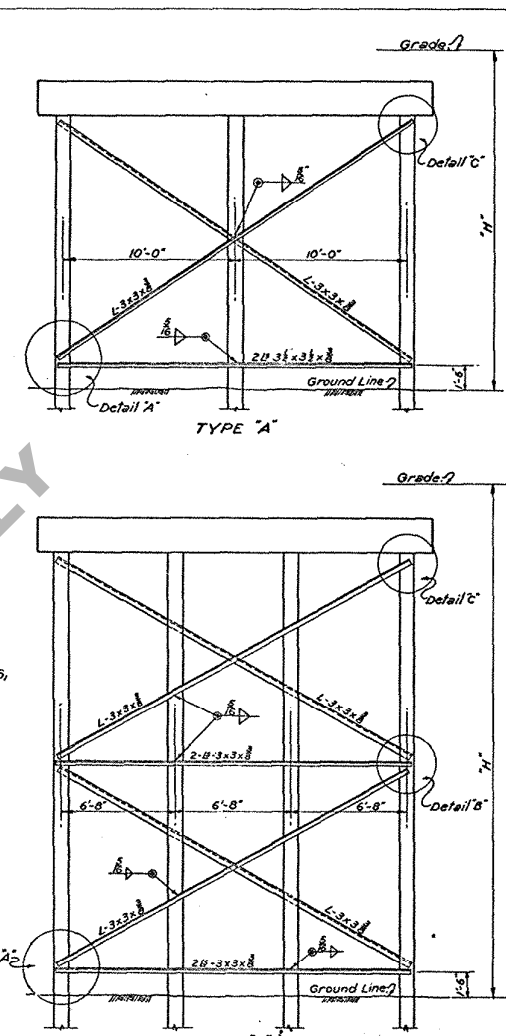
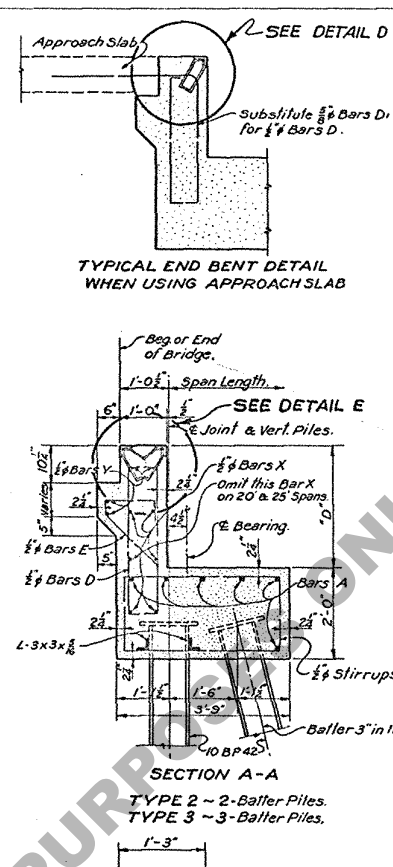
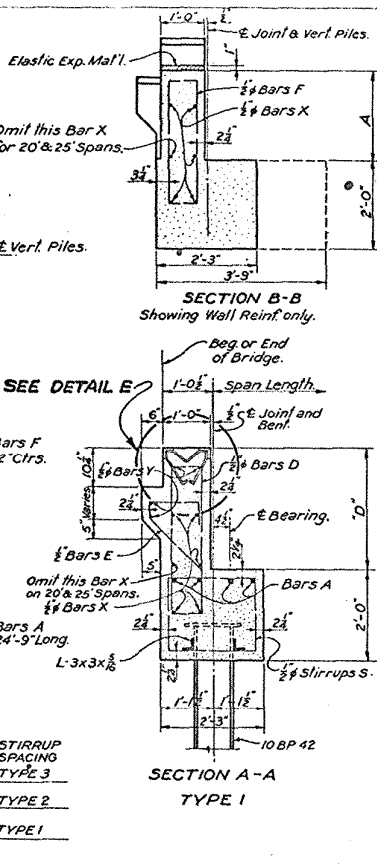


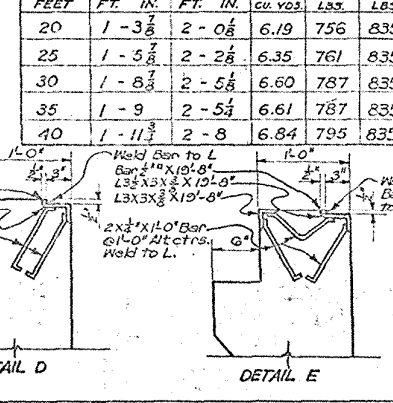
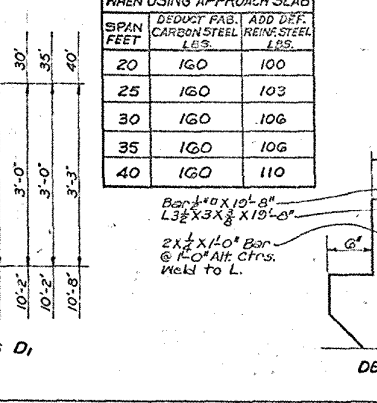
Figure 1 consists of three detailed cross-sectional diagrams of a reinforced concrete column-beam joint, labeled "DETAIL A", "DETAIL B", and "DETAIL C".

- DETAIL A:** Shows a top-down view of the joint. A diagonal reinforcement bar is shown passing through the joint. Dimensions include L'' for the horizontal distance from the column face to the bar bend, L' for the horizontal distance from the column face to the bar end, and L for the total horizontal length. A "Ground Line." is indicated at the bottom.
- DETAIL B:** Shows a side view of the joint. It illustrates the vertical alignment of the reinforcement bars. Dimensions include L'' for the horizontal distance from the column face to the bar bend, L' for the horizontal distance from the column face to the bar end, and L for the total horizontal length. A vertical dimension of $6''$ is shown for the column width.
- DETAIL C:** Shows a front view of the joint. It illustrates the vertical alignment of the reinforcement bars. Dimensions include L'' for the horizontal distance from the column face to the bar bend, L' for the horizontal distance from the column face to the bar end, and L for the total horizontal length. A vertical dimension of $6''$ is shown for the column width.

BRACING ~ TYPE AND QUANTITIES				
GROUND TO GRADE "H"	THREE PILE		FOUR PILE	
	TYPE	FAB CARBON STEEL LBS.	TYPE	FAB CARBON STEEL LBS.
	F&G		F&G	
0 THRU 9	NONE		NONE	
10 THRU 10	A	657	C	602
10 THRU 15		675		621
19 THRU 19		701		647
20 THRU 20	B	1330	D	1222
25 THRU 25		1357		1248
30 THRU 30		1368		1280

GENERAL NOTES:
Construction Specifications: Latest approved by La. Dept. of
Highways 3rd Specifications, Design Specifications: A.A.S.H.O.
1944 as amended Dec. 10, 1944. Live Load HS-44.
Reinforcing Steel shall be Intermediate Grade.
All dimensions for reinforcing steel are to bar centers.
Welding shall conform to the current Specifications for
Welded Highway and Railroad Bridges, Design, Construction,
and Repair, American Welding Society.
Value of Fabricated Carbon Steel and Steel Bearing
Piles in Concrete deducted in computing quantities.
Structural Steel Sections used as reinforcing in Cap
classified as "Fabricated Carbon Steel".
"Fabricated Carbon Steel," unless noted and Steel Bearing Piles
shall receive one Shop Coat of Paint.
Surfaces of Piles which will be in water and ground shall
receive the first Field Coat of Paint. Exposed steel surfaces
shall receive the first Second and Third Field Coat of Paint.
Steel shall be Spot painted after welding before applying
first Field Coat.

QUANTITIES - DIMENSIONS AND PILE LOAD †																					
SPAN		END BENT *										INTERMEDIATE BENT								SPAN	
		DIMENSIONS		TYPE						AV. PILE LOAD TONS	THREE PILE				FOUR PILE						
				ONE		TWO		THREE			THREE PILE		FOUR PILE								
				CLASS A CONCRETE CU. YDS.	DEF. REINF. STEEL LBS.	FAB. CARBON STEEL LBS.	CLASS A CONCRETE CU. YDS.	DEF. REINF. STEEL LBS.	FAB. CARBON STEEL LBS.		CLASS A CONCRETE CU. YDS.	DEF. REINF. STEEL LBS.	FAB. CARBON STEEL LBS.	CLASS A CONCRETE CU. YDS.	DEF. REINF. STEEL LBS.	FAB. CARBON STEEL LBS.	AV. PILE LOAD TONS	CLASS A CONCRETE CU. YDS.	DEF. REINF. STEEL LBS.		FAB. CARBON STEEL LBS.
FEET	FT. IN.	FT. IN.																			FEET
20	1 - 3 ⁷ / ₈	2 - 0 ⁶ / ₈	6.19	756	835	8.96	968	910	8.96	968	950	15.2	3.37	418	394	20.3					20
25	1 - 5 ¹ / ₈	2 - 2 ⁶ / ₈	6.35	761	835	9.13	974	910	9.12	974	950	17.5	3.37	418	394	23.3					25
30	1 - 8 ⁷ / ₈	2 - 5 ¹ / ₈	6.60	787	835	9.38	999	910	9.37	999	950	19.8	3.37	418	394	26.4					30
35	1 - 9	2 - 5 ¹ / ₂	6.61	787	835	9.39	999	910	9.38	999	950	22.0					3.37	408	434	22.0	35
40	1 - 11 ³ / ₈	2 - 8	6.84	795	835	9.61	1008	910	9.61	1008	950	24.3					3.37	408	434	24.2	40



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

Max. Pile Loads Unless Otherwise Instructed By En. Des. Sec. 10 D.P. 42 = 32 Tons per Pile.

NOTE: Maximum height Ground to Grade with 10 BP 42 equals 30'-0".

STANDARD PLAN
STEEL BEARING PILE BENTS
FOR I-BEAM SPANS HIS LOADING
20'-0" CLEAR ROADWAY 1'-6" SIDEWALK
20 FT. THRU 40 FT. SPANS
TO BE USED WITH STD. PLAN S-C-58-15 REV.
DATED *April* 1947

11-16-51	Added Cover 12	AUL	h
1-10-52	Field Point Note	J.D.	h
7-3-53	Recovering from Abandoning	Joe	h
7-1-54	Miss. Details	S.M.	

STATE OF LOUISIANA

DEPARTMENT OF HIGHWAYS

DESIGNED	<i>Mason</i>	DETAILED	<i>Mason</i>	TRACED	<i>S. Role</i>
CHECKED	<i>W. H. D.</i>	CHECKED	<i>S. B. D.</i>	CHECKED	<i>Mason</i>

DATE	DESCRIPTION	BY
	REVISIONS	

BRIDGE DESIGN SECTION