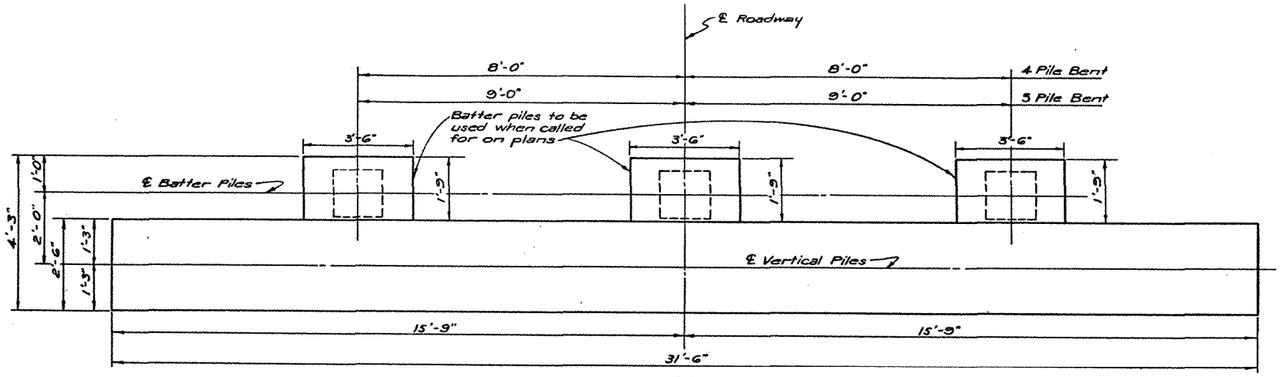
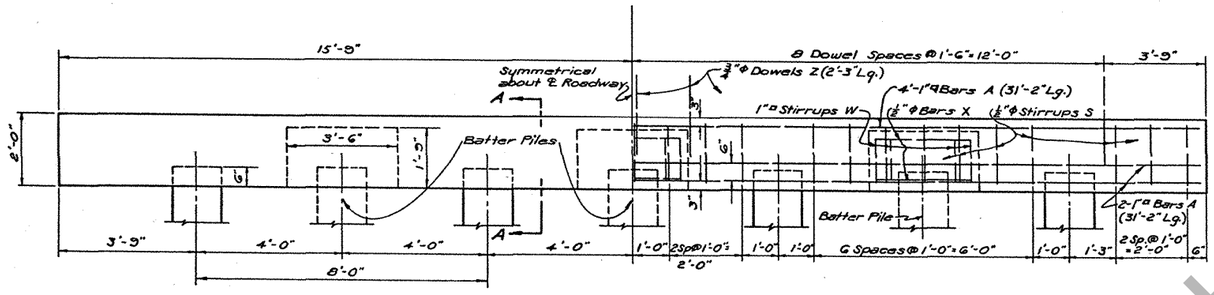
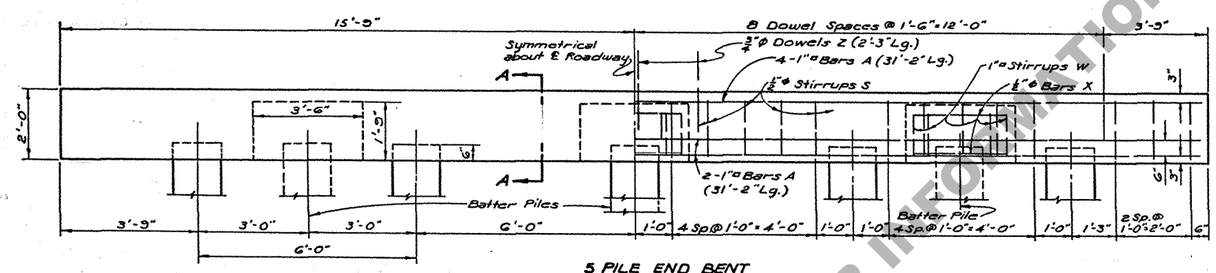
	STATE PROJECT	PARISH	SHEET NO.



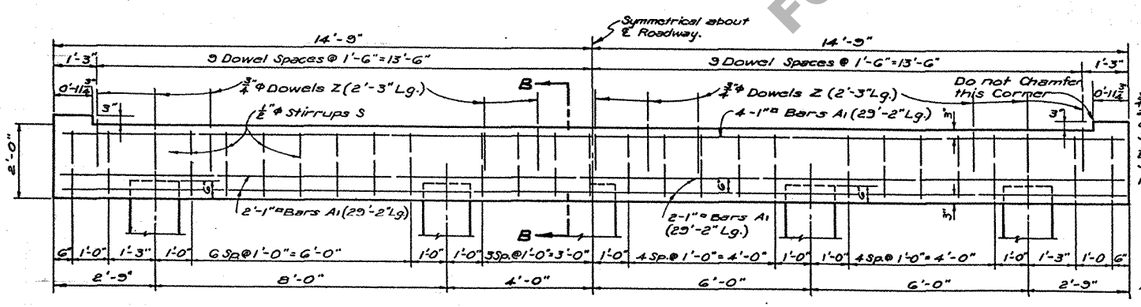
PLAN
Showing Batter Pile Spacing



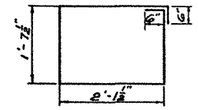
4 PILE END BENT



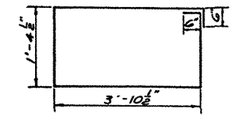
5 PILE END BENT



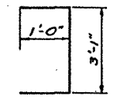
4 PILE BENT — INTERMEDIATE BENTS — 5 PILE BENT



½"φ STIRRUPS S
8'-6" LONG



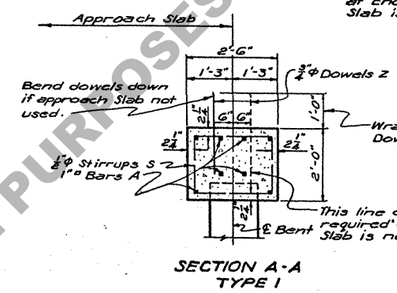
1"□ STIRRUPS W
11'-6" LONG



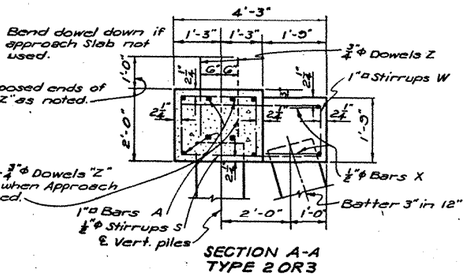
½"φ BARS X
5'-1" LONG

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	

NOTE:
End Span to have fixed end at End Bent if approach Slab is not used.



SECTION A-A
TYPE 1

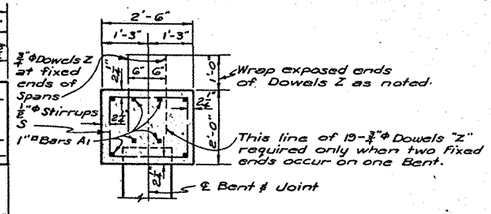


SECTION A-A
TYPE 2 OR 3

GENERAL NOTES:
Construction Specifications: Latest approved Louisiana Highway Dept. Standard Specifications.
Design Specifications: A.A.S.H.O. 1944 as amended to Dec. 15, 1946.
Live Load: H-20-S-16-44.
All dimensions relating to reinforcing steel are to bar centers.
All reinforcing steel to be Structural or Intermediate Grade.
All concrete to be Class "A".
All ¾"φ dowels Z are to be wrapped with 2 layers of 15 Lb. tar paper.
Close fitting tubes made of compressible material not less than ⅜" thick may be substituted for tar paper wrapping.
All corners to be chamfered ½" unless noted.

QUANTITIES & PILE LOADS				
Type \ Item	Class "A" Concrete Cu. Yds.	Deformed Reinf. Steel ¾" Lbs.	Average Pile Load 20' Span Tons	Average Pile Load 19' Span Tons
4 PILE END BENT*				
Type 1	5.70	1058	30.2	28.6
Type 2	6.43	1385	30.2	28.6
Type 3	6.79	1548	30.2	28.6
5 PILE END BENT*				
Type 1	5.71	1053	24.1	22.9
Type 2	6.45	1380	24.1	22.9
Type 3	6.82	1542	24.1	22.9
INTERMEDIATE BENT				
4 Pile	5.38	1000	30.2	28.6
5 Pile	5.38	994	24.1	22.9

*To provide for future extension of bridge the end bents are designed for same load as intermediate bents.
(NOTE: Add 64 Lbs. of Reinf. Steel (19-¾"φ Dowels Z) When two fixed ends occur on one Inter. Bent. Add 64 Lbs. of Reinf. Steel (19-¾"φ Dowels Z) when Approach Slab is not used at End Bent.



SECTION B-B

Max. pile Loads Unless otherwise Instructed By Bridge Des. Section.
14" □ R.C. Piles = 28 Tons Per Pile.
16" □ R.C. Piles = 32 Tons Per Pile.

NOTE: For details of Concrete piles See Std. Plan C-S-145.

DATE	DESCRIPTION	BY
10-10-45	Retraced	F.B./R.C.C.
7-8-45	Note Covering Max. Pile Loading	W.O.W.P.
6-3-45	Added Note about Dowels "Z"	W.O.W.P.
5-28-45	Added 19' Span	W.O.W.P. K.B.
2-10-45	General	L.D./

REVISIONS

STANDARD PLAN
REINFORCED CONCRETE PILE BENTS
FOR CONCRETE SLAB SPANS
20 FT. & 19 FT. SPAN — H20-S16-44 LOADING
26'-0" CLEAR ROADWAY — 1'-6" SIDEWALKS
TO BE USED WITH STD. PLAN C-F-S-1-20 & C-F-S-3-20
DATED Nov. 1945

STATE OF LOUISIANA
DEPARTMENT OF HIGHWAYS

DESIGNED Hutchinson DETAILED Hutchinson TRACED L. Dimond
CHECKED Nasca CHECKED Nasca CHECKED F. Bourgeois
BRIDGE DESIGN SECTION

C-S-64-20

FOR INFORMATIONAL PURPOSES ONLY