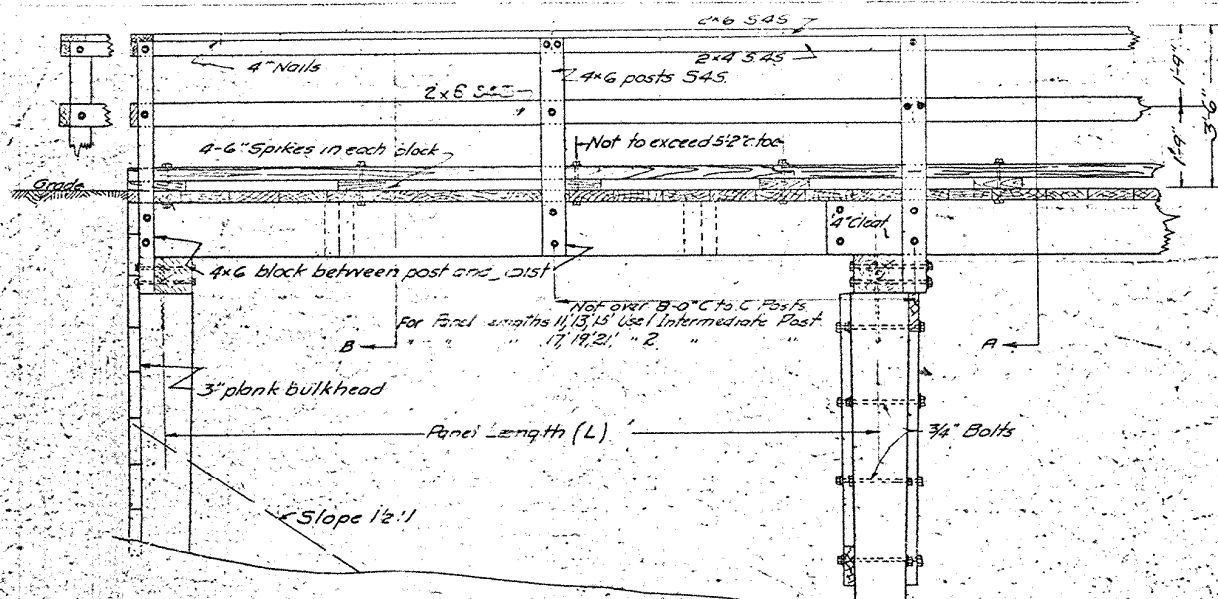
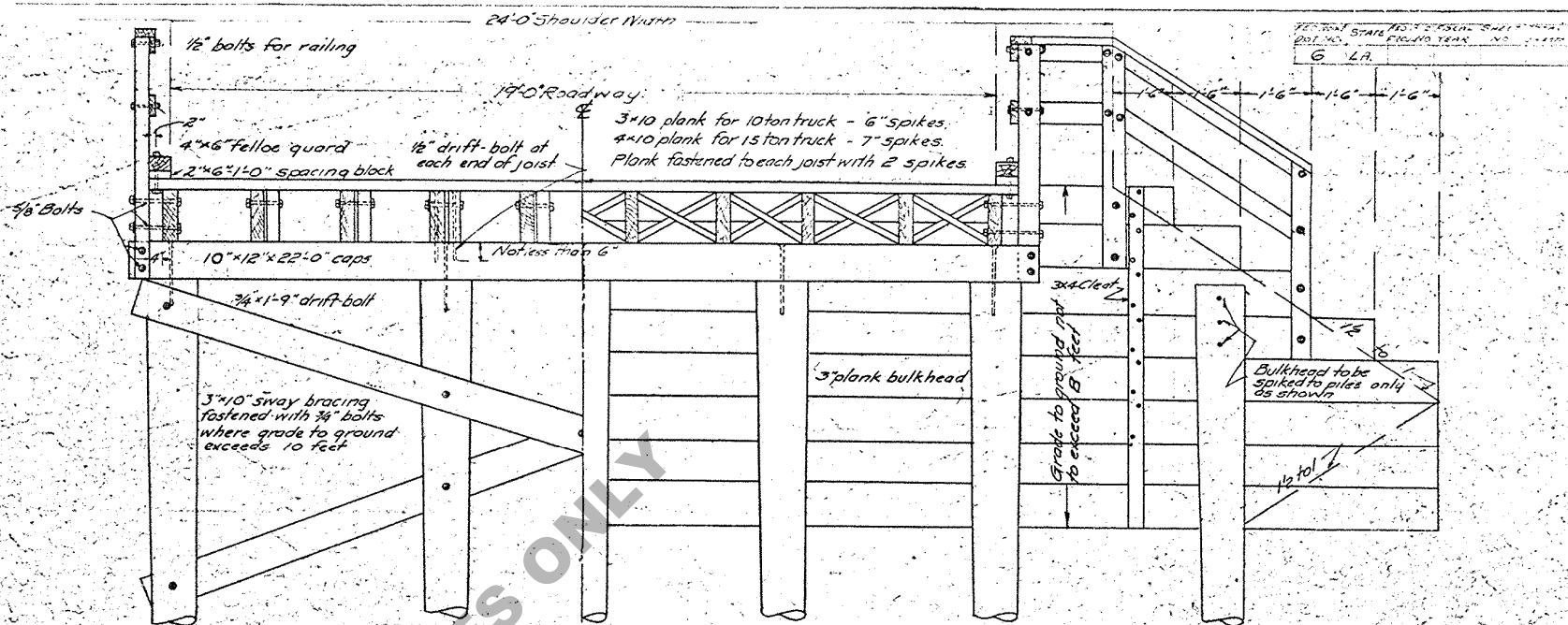


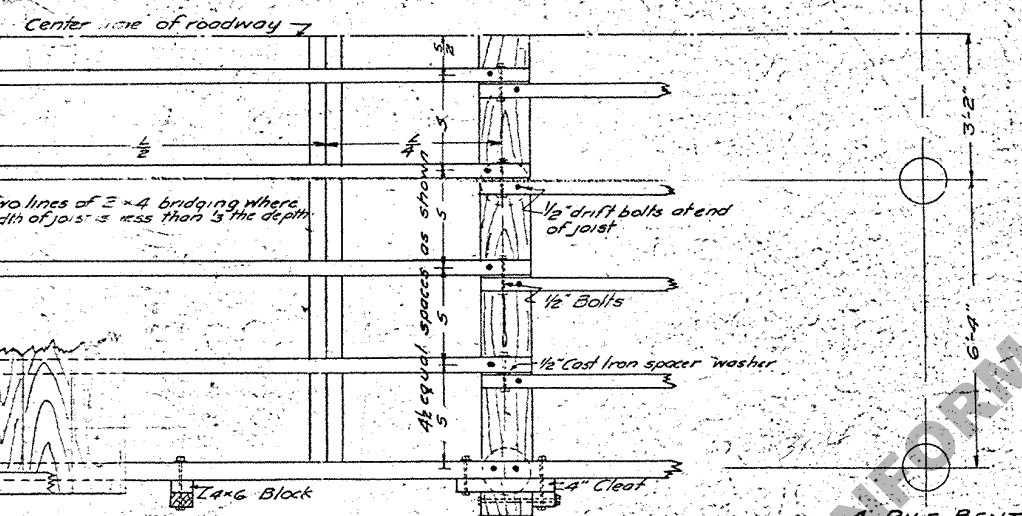


SIDE ELEVATION



HALF SECTION A-A

HALF SECTION B-B



HALF PLAN

SUBSTRUCTURE QUANTITIES

ONE BULKHEAD

GRADE ONE BULKHEAD TO GROUND LUMBER SPIKES		
FT.	F.B.M.	LBS.
4	490	20
5	610	20
6	735	25
7	855	25
8	975	25

SWAY BRACING

GRADE- TO		ONE BENT		
GROUND SETS		LENGTH	LUMBER	BOLTS
FT.	No	FT.	F.B.M.	LBS.
10	1	22	110	40
10-15	1	24	120	40
15-19	2	22	220	70
19-23	2	22 & 24	230	70
23-26	2	24	240	70

GENERAL NOTES & DESIGN DATA

Loading - One typical 10 or 15 ton truck.
 Impact allowance 30%
 Stress in extreme fiber structural timber 1600 psi per sq. in.
 All structural timber to be durable and of best quality of the following species: - Longleaf Shortleaf or Cuban Pine, White Oak or Spanish Oak.
 All piles to be straight sound trees of durable quality and seasoned. Built to be not less than 14" diam. and tip not less than 9" diam. for piles less than 30 ft. not less than 8" for piles over 30 ft. Each pile shall have a bearing capacity of 10 tons as determined by the following formulas:
 When drop hammer is used $P = 2 \frac{WH}{S}$
 When steam hammer is used $P = 2 \frac{WH}{S}$

P = safe bearing capacity of pile in pounds
 W = weight of striking part of hammer in pounds
 H = fall of hammer in feet
 S = average penetration in inches of pile for each of the last 5 blows of drop hammer, or the last 20 blows of steam hammer.
 Piles shall have a minimum penetration of 12 ft. in firm material and 30 ft. in soft material.
 Paint: Railing & Posts - 2 coats of white lead and linseed oil.
 Tops of piles and caps, the contact surfaces of joists and the rear surface of bulkhead - 1 coat of soft coal tar pitch or asphaltic paint.
 Flooring, posts and railing to be of untreated material.
 Capsills, stringers, bridging and cleats to be treated material.
 Washers to be ogee type cast iron for 3/8" and 1/2" bolts, and cut wrought iron or steel plate washers for 3/4" bolts.

DIMENSIONS AND QUANTITIES FOR SUPERSTRUCTURE

15 TON TRUCK CAPACITY

PANEL SIZE		ONE PANEL COMPLETE			ADDITIONAL PANELS			HARDWARE
LENGTH OF	UNTREATED	RAILING		C.R.O.	UNTREATED	RAILING		C.R.O. WARE
(L)	JOISTS	FLOOR	& POSTS		FLOOR	& POSTS		
FT.	IN.	F.B.M.	F.B.M.	F.B.M.	F.B.M.	F.B.M.	F.B.M.	LBS.
11	6x12	1000	310	1160	860	110	940	130
	4x16	1000	310	1130	860	110	930	
13	8x12	1130	320	1660	1070	120	1460	130
	6x14	1130	320	1420	1070	120	1210	
15	4x16	1130	320	1230	1070	120	1010	140
	10x12	1360	330	2040	1290	130	1840	
	6x14	1360	330	1560	1290	130	1340	
17	10x12	1490	370	2240	1410	170	2040	160
	8x14	1490	370	2120	1410	170	1920	
	6x16	1490	370	1880	1410	170	1680	
19	8x14	1700	380	2310	1630	180	2110	170
	8x16	1700	380	2580	1630	180	2380	
	6x16	1700	380	2040	1630	180	1840	
21	10x14	1840	390	3000	1770	190	2800	180
	8x16	1840	390	2180	1770	190	2380	

Quantities in table include capsills and bridging where required.
 Hardware weights are approximate.

10 TON TRUCK CAPACITY

PANEL SIZE	ONE PANEL COMPLETE	ADDITIONAL PANELS	HARDWARE					
LENGTH OF UNTREATED	RAILING	UNTREATED	RAILING					
(L)	FLOOR & POSTS	FLOOR & POSTS	FLOOR & POSTS					
FT.	IN.	F.B.M.	F.B.M.	F.B.M.	F.B.M.	F.B.M.	LBS.	
11	4x12	760	310	920	700	110	120	120
	3x14	780	310	910	700	110	710	
13	6x12	870	320	1280	820	120	1080	120
	4x14	870	320	1140	820	120	940	
	6x12	1030	330	1400	980	130	1200	
15	4x14	1030	330	1230	980	130	1030	130
	4x16	1030	330	1340	980	130	1140	
	8x12	1130	370	1880	1080	170	1680	
17	6x14	1130	370	1700	1080	170	1500	150
	4x16	1130	370	1450	1080	170	1250	
	8x12	1290	380	2040	1240	180	1840	
19	6x14	1290	380	1840	1240	180	1640	160
	4x16	1290	380	1650	1240	180	1350	
21	8x14	1400	390	2590	1350	190	2390	170
	6x16	1400	390	2200	1350	190	2000	
	10x12	1510	400	2840	1460	200	2640	
23	8x14	1510	400	2680	1460	200	2480	170
	6x16	1510	400	2360	1460	200	2160	
25	8x14	1670	450	2870	1620	240	2670	190
	6x16	1670	450	2320	1620	240	2320	
27	8x16	1740	460	3430	1730	250	3230	200
	10x14	1940	470	3940	1890	260	3740	
29	8x16	1940	470	3640	1890	260	3440	200

Revised to 2/17/23

TIMBER TREESTLE BRIDGES

19'-0" ROADWAY
 11 FT. TO 29 FT. SPANS

LOUISIANA HIGHWAY COMMISSION

DATON ROUTE L.A. SCALE 1/2" = 1'-0"

4 B-2-43