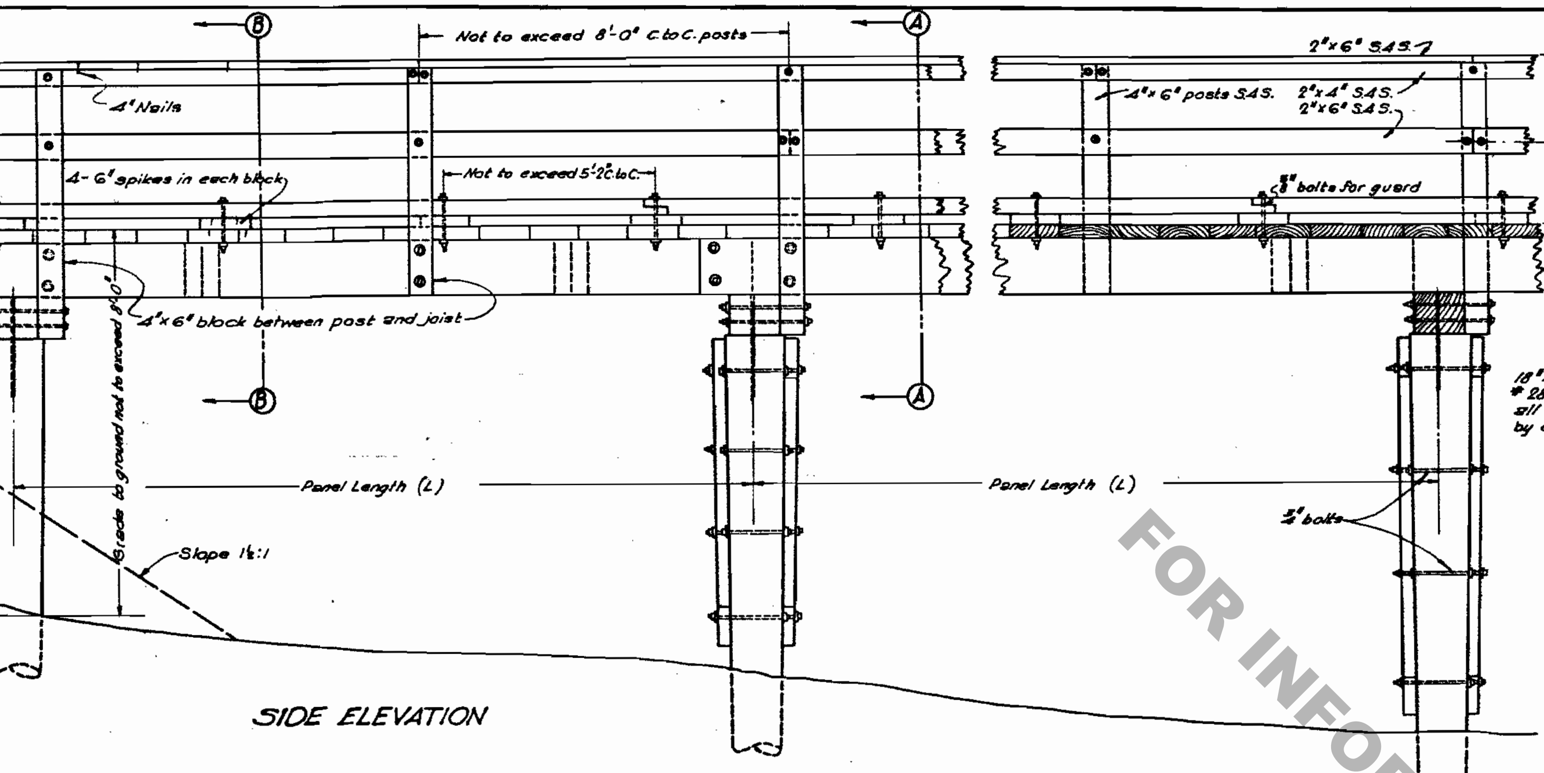
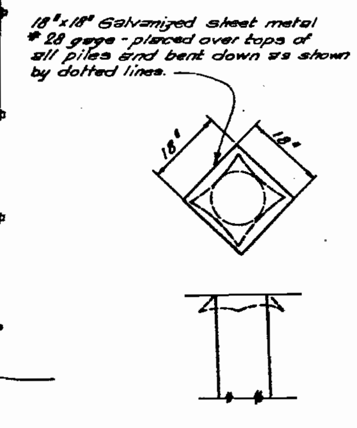
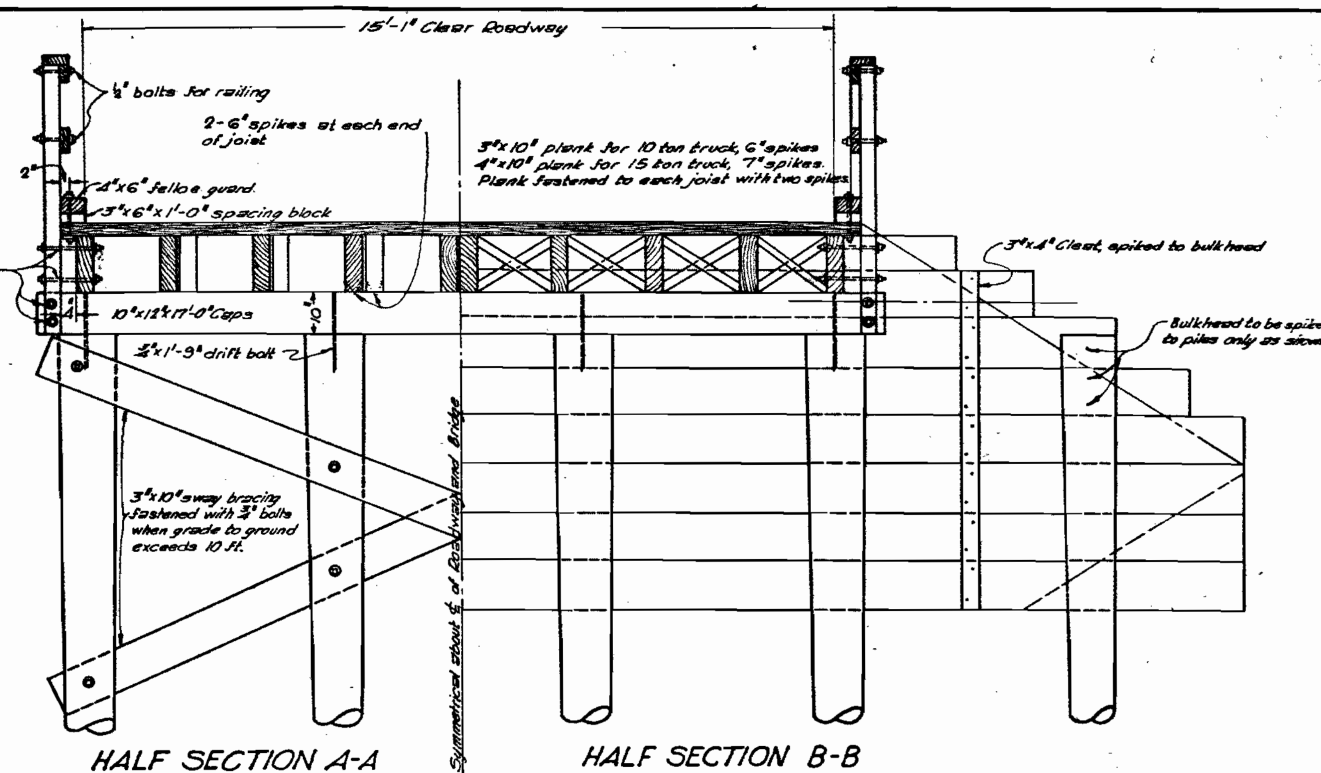


SIDE ELEVATION

LONGITUDINAL SECTION

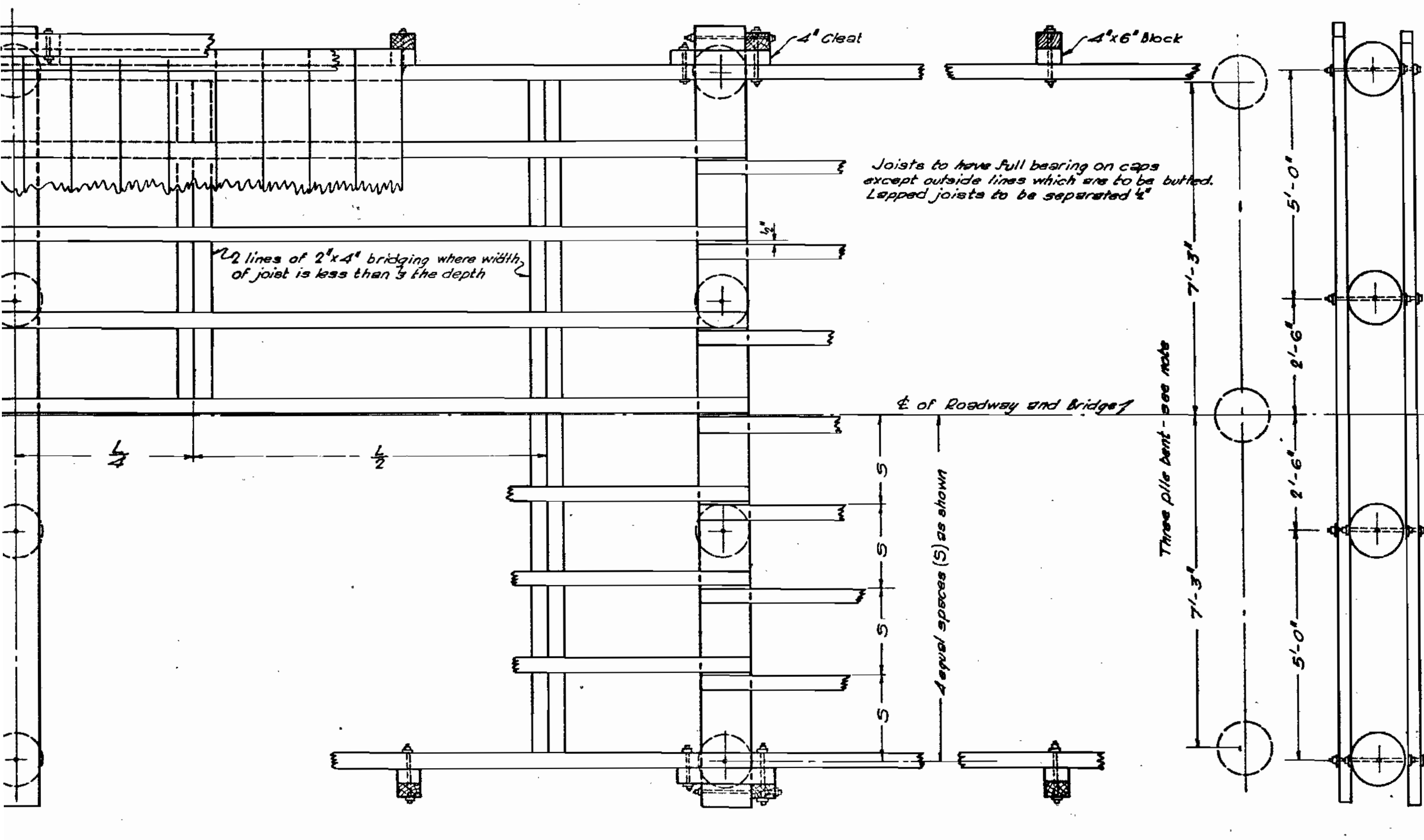


DETAIL OF SHEET METAL COVER OVER TOPS OF ALL PILES



HALF SECTION A-A

HALF SECTION B-B



PART PLAN

-DESIGN DATA AND GENERAL NOTES-

One typical 10 or 15 ton truck.

Impact allowance, 30%

Stress in extreme fibre structural timber 1600 lbs. per sq. in.

3 pile bents may be substituted for the 4 pile bents shown, only for the 10 ton truck design for panel lengths not to exceed 20 feet.

All structural timber to be durable and of first quality of the following species:- Longleaf, Shortleaf, or Cuban Pine, White, Tanbark or Spanish Oak.

All piles to be straight sound trees of durable quality and peeled. Butt to be not less than 14 in. diam. and tip not less than 9 in. diam for piles less than 30 ft., nor less than 8 in. 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

$$P = \frac{2WH}{S+1}$$

When steam hammer is used,

$$P = \frac{2WH}{S+0.1}$$

Where

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, 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.

DIMENSIONS AND QUANTITIES FOR SUPERSTRUCTURE

CAPACITY 15 TON TRUCK

PANEL LENGTH (L)	SIZE OF JOISTS	INTERMEDIATE PANEL: JOISTS	FLOOR RAILING DETAILS	TOTAL LUMBER	BOLTS WASHERS SPIKES NAILS
FEET	INCHES	FT. B.M.	FT. B.M.	FT. B.M.	POUNDS
10	6x12	590	800	1390	80
	4x14	460	840	1300	
11	6x12	650	870	1520	90
	4x14	500	920	1420	
12	6x12	700	940	1640	90
	4x16	620	990	1610	
13	8x12	1010	1020	2030	90
	6x14	880	1020	1900	
	4x16	670	1070	1740	
14	8x12	1080	1090	2170	90
	6x14	950	1090	2040	
	4x16	720	1140	1860	
15	8x12	1150	1170	2320	100
	6x14	1010	1170	2180	
16	10x12	1530	1240	2770	100
	6x14	1070	1240	2310	
	6x16	1230	1240	2470	
17	10x12	1620	1340	2960	120
	8x14	1510	1340	2850	
	6x16	1300	1340	2640	
18	10x12	1710	1410	3120	130
	8x14	1600	1410	3010	
	6x16	1370	1410	2780	
19	10x12	1800	1490	3290	130
	8x14	1680	1490	3170	
	6x16	1440	1490	2930	
20	8x14	1760	1560	3320	130
	8x16	2020	1560	3580	
21	10x14	2310	1640	3950	140
	8x16	2110	1640	3750	
22	10x14	2410	1710	4120	150
	8x16	2210	1710	3920	

CAPACITY 10 TON TRUCK

PANEL LENGTH (L)	SIZE OF JOISTS	INTERMEDIATE PANEL: JOISTS	FLOOR RAILING DETAILS	TOTAL LUMBER	BOLTS WASHERS SPIKES NAILS
FEET	INCHES	FT. B.M.	FT. B.M.	FT. B.M.	POUNDS
10	4x12	400	640	1040	70
	3x14	350	680	1030	
11	4x12	430	700	1130	80
	3x14	380	740	1120	
12	6x12	700	760	1460	80
	3x14	410	800	1210	
13	6x12	760	810	1570	80
	4x14	590	860	1450	
14	6x12	810	870	1680	90
	4x14	630	910	1540	
	4x16	720	910	1630	
15	6x12	860	930	1790	90
	4x14	670	970	1640	
	4x16	770	970	1740	
16	6x12	920	990	1910	100
	6x14	1070	990	2060	
	4x16	820	1030	1850	
17	6x12	970	1070	2040	110
	6x14	1130	1070	2200	
	4x16	870	1110	1980	
18	8x12	1370	1130	2500	120
	6x14	1200	1130	2330	
	4x16	910	1170	2080	
19	8x12	1440	1180	2620	120
	6x14	1260	1180	2440	
	4x16	960	1220	2180	

PANEL LENGTH (L)	SIZE OF JOISTS	INTERMEDIATE PANEL: JOISTS	FLOOR RAILINGS DETAILS	TOTAL LUMBER	BOLTS WASHERS SPIKES NAILS
FEET	INCHES	FT. B.M.	FT. B.M.	FT. B.M.	POUNDS
20	8x12	1510	1240	2750	120
	6x14	1320	1240	2560	
	6x16	1510	1240	2750	
21	10x12	1980	1300	3280	130
	6x14	1390	1300	2690	
	6x16	1580	1300	2880	
22	10x12	2070	1360	3430	130
	8x14	1930	1360	3290	
	6x16	1660	1360	3020	
23	10x12	2160	1420	3580	130
	8x14	2020	1420	3440	
	6x16	1730	1420	3150	
24	10x12	2250	1470	3720	130
	8x14	2100	1470	3570	
	6x16	1800	1470	3270	
25	10x14	2730	1560	4290	150
	8x14	2180	1560	3740	
	6x16	1870	1560	3430	
26	10x14	2840	1610	4450	160
	8x16	2600	1610	4210	
27	10x14	2940	1670	4610	160
	8x16	2690	1670	4360	
28	10x14	3050	1730	4780	160
	8x16	2780	1730	4510	
29	10x14	3150	1790	4940	160
	8x16	2880	1790	4670	

Washers to be ogee type cast iron ⅝" and ¾" bolts, and cut wrought iron or steel plate washers for ½" bolts.

DIMENSIONS AND QUANTITIES - SUBSTRUCTURE

GRADE TO GROUND	SWAY BRACING-INTERMEDIATE BENT: SETS	LENGTH	LUMBER	BOLTS
FEET	NO REQ'D	FEET	FT. B.M.	POUNDS
10-12	1	18	90	35
12-15	1	20	100	35
15-18	1	22	110	35
18-23	2	18+20	190	60
23-26	2	20	200	60
ONE CAP 10"x12"x17'-0"			170	10

GRADE TO GROUND	BULKHEAD-ENDBENT: LUMBER	SPIKES
FEET	FT. B.M.	POUNDS
4	270	5
5	360	5
6	460	10
7	550	10
8	640	10

12-21-05

DATE	DESCRIPTION	BY
10/8/31	Detail of Sheet Metal Cover over tops of Piles	T.H.H.

REVISIONS

PLAN OF
TYPICAL TIMBER TRESTLE
SPANS 10 TO 29 FT. 15'-1" CLEAR ROADWAY

Scale:- ½" = 1'

HIGHWAY DEPARTMENT
BOARD OF STATE ENGINEERS
NEW ORLEANS LA.
NOV. 9TH 1917

LOUISIANA HIGHWAY COMMISSION
BATON ROUGE, LA. March 1940

DESIGNED P.M. Bowman | DETAILED P.M. Bowman | TRACED C. Bernard
CHECKED D.G.W.R. | CHECKED D.G.W.R. | CHECKED D.G.W.R.
IN CHARGE OF BRIDGE DESIGNING ENGINEER

(B-2-11) T-T-6