



STANDARD TIMBER TRESTLE
 19'-0" CLEAR ROADWAY ~ 19 PILES
 FOR 32' EMBANKMENT

LOUISIANA HIGHWAY COMMISSION
 BATON ROUGE, LA.
 Date, April, 1924.
 Scale 1/2" = 1'-0" except as noted.

Revised June 12, 1924

GENERAL NOTES
 All structural timbers to be of Southern Yellow Pine. All piles, caps, sway bracing, bulkhead planking, stringers, stringer cleats to be class S&S, creosoted with standard 12% treatment, all other timber to be untreated S&S, 30% heart. All piles to be straight sound trees peeled and creosoted. Diameter two feet from butt shall not be less than 12" and diameter at tip shall not be less than 8". Treatment: 12% S&S. Each pile shall have a bearing capacity of 10 tons as determined by following formulae: -
 When drop hammer is used: $P = \frac{W \times H}{L}$, when steam hammer is used: $P = \frac{W \times H}{L}$
 P-safe bearing capacity of pile in pounds, W-weight of striking part of hammer in pounds, H-fall of hammer in feet, L-average penetration in inches for each of last 5 blows of drop hammer or last 20 blows of steam hammer. Piles shall have a minimum penetration of 12 ft in firm material and 20 ft in soft material.
 Hand rail and felloe guard shall be painted two coats of white lead and linseed oil. Complete permanent records of each structure as built should be made showing pile lengths, penetrations, pile driving data and any modification of this design. Washers to be of type cast iron for 3/4" bolts and cut wrought iron for 1/2" bolts. Tops of all piles to be covered with Galvanized sheet metal covers #28 gage, 18 square bent down to drain.

DESIGN DATA
 2-Typical 10 Ton Trucks + 30% Impact.
 Specifications, La. Highway Comm., 1922

QUANTITIES FOR SUPERSTRUCTURE

ONE-PANEL COMPLETE	ADDITIONAL PANEL
Untreated	Creosoted
1874 F.B.M.	1855 F.B.M.
1790 F.B.M.	1645 F.B.M.

GROUND GRADE Feet	One Bulkhead	
	Lumber F.B.M.	Spikes Pounds
3	534	25
4	700	30
5	830	35
6	960	40
7	1220	45
8	1350	50

SWAY BRACING

GROUND GRADE Feet	ONE BENT	
	JETS Length Feet	LUMBER F.B.M. Pounds
8 to 12	1	240
17 to 18	1	260
18 to 18	2	220