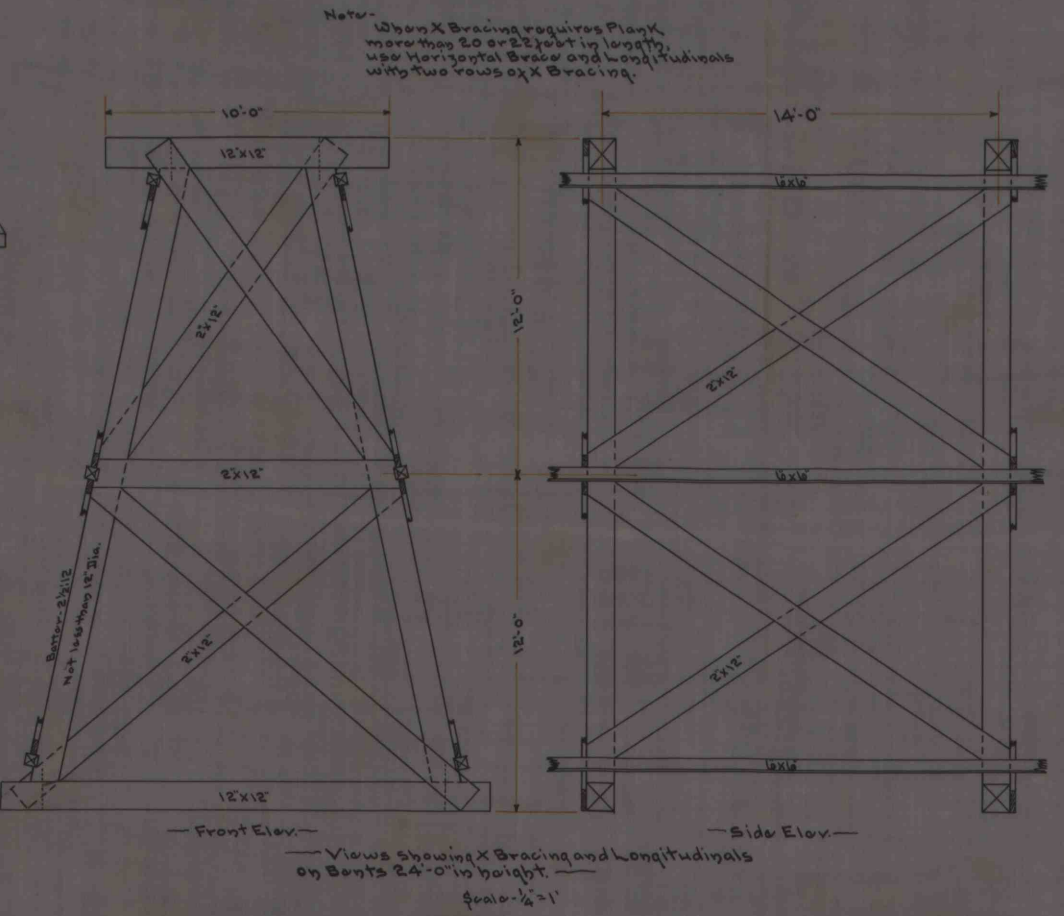
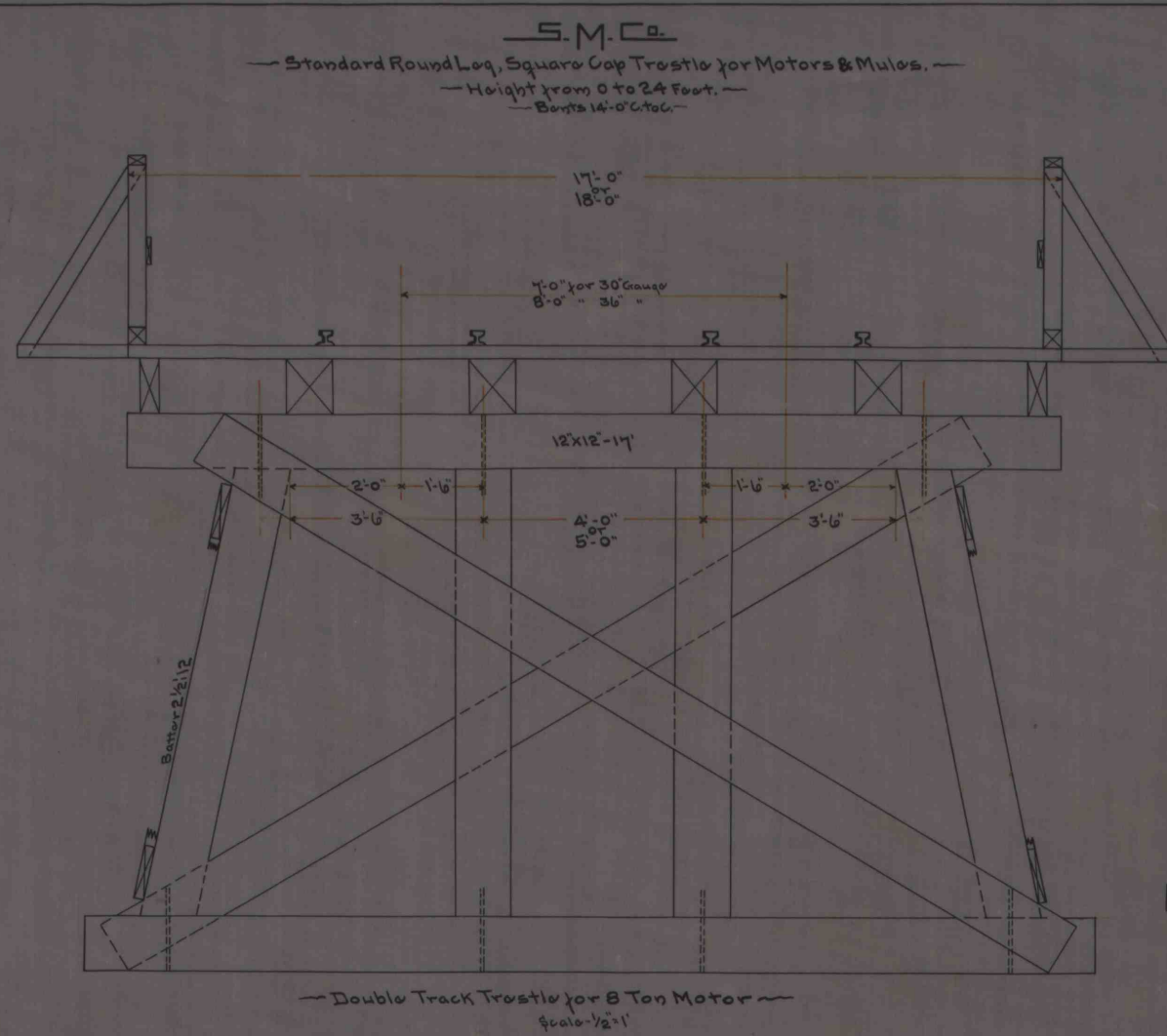
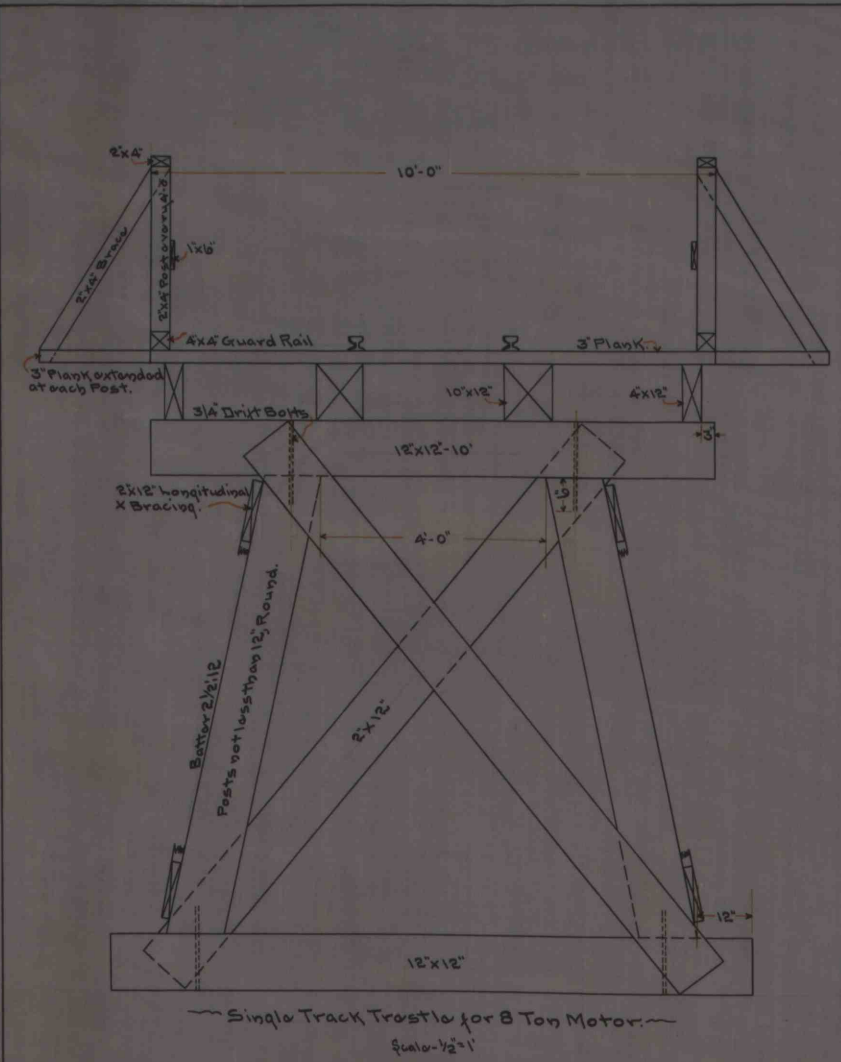




Number 555
 Date Mar. 26, 1912.
 Scale As Shown.
 Drawn by R.A.A.
 Approved Chief Engr.

S.M.Co.
 — Table Showing Size of Timbers required for Various Loads. —

Loads.	Depth of Stringers	Material.		
		Hemlock	Oak	Y. Pine
Burnedale Cars. 3700 ⁰ per Car. 7000 ⁰ on Span.	8	20	14	12
	10	14	10	8
	12	10	8	6
Ramsay Cars. 6100 ⁰ per Car. 9500 ⁰ on Span.	8	30	20	16
	10	18	14	12
	12	14	10	8
8 Ton Motor - 16000 ⁰ weight. Equivalent to 22000 ⁰ uniformly distributed.	8	—	36	32
	10	36	24	20
	12	28	20	16
10 Ton Motor - 20000 ⁰ weight. Equivalent to 28600 ⁰ uniformly distributed.	14	24	14	12
	10	48	36	30
	12	36	24	20
15 Ton Motor - 30000 ⁰ weight. Equivalent to 37100 ⁰ uniformly distributed.	14	30	18	16
	10	60	40	36
	12	48	30	24
	14	36	24	20

— Explanation of Table —

To use this Table determine first the Load the Structure is intended to carry, then the Kind of Material available for Stringers and the depth of Stringer. Opposite this depth and under the Kind of Wood will be found the number of inches width of Stringer required; this width will be made up in at least two pieces, one under each rail, or maybe made up in more than two pieces. For instance -

For an 8 Ton Motor using Oak Stringers 10" deep, a width of 24" is called for; this may be made up of two 10x12" laid flat, or of three 8x10", or of four 6x10" on edge, as may be most convenient.