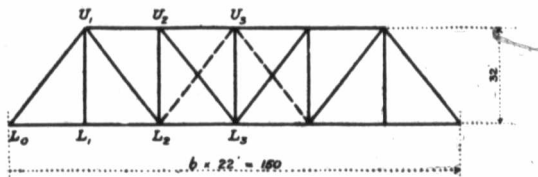


60-FT. PLATE GIRDER (DECK).

SPECIFICATION	Stress	Shear	Flange Stress	Comparative Weight
Dom. Gov., 1905, Cl. I.	Dead Load.....	22,200	55,400
	Live Load.....	116,400	255,800
Dom. Gov., 1901 $I = \frac{L^2}{D+L}$	Impact.....	97,000	208,500	.92
	Total.....	235,600	519,700	
	Unit.....	10,000	16,000	
	Area reqd.....	23.6 sq.in.	32.5 sq.in.	
Dom. Gov., 1905 $I = \left(1.40 - \frac{200}{S}\right)L$	Impact.....	128,000	281,400	1.00
	Total.....	266,600	592,600	
	Unit.....	10,000	16,000	
	Area reqd.....	26.7 sq.in.	37.0 sq.in.	
Canadian Pacific Railway and American Bridge Company $I = \left(\frac{300}{S+300}\right)L$	Impact.....	97,000	213,100	.93
	Total.....	235,600	524,300	
	Unit.....	10,000	16,000	
	Area reqd.....	23.6 sq.in.	32.8 sq.in.	
Pennsylvania Railway	Impact.....	97,900	209,100	.92
	Total.....	236,500	520,300	
	Unit.....	10,000	16,000	
	Area reqd.....	23.7 sq.in.	32.5 sq.in.	
F. H. Lewis, C. E., in Johnson's "Framed Structures," 9,000 $\left(1 + \frac{\text{min.}}{\text{max.}}\right)$ Tension	Total.....	138,600	311,200	.87
	Unit.....	6,000	10,600	
	Area reqd.....	23.1 sq.in.	29.3 sq.in.	
Cooper, 1901	Total.....	138,600	311,200	.90
	Unit.....	10,000	
	Area reqd.....	31.1 sq.in.	



150 ft Through Pratt Truss.