**TABULAR STATEMENT**

Of the Strains in the different members of a Trussed Girder Bridge of 300 ft. span in the clear, in which the iron Truss alone weighs 0.62 tons per foot, and is proportioned to sustain only its own weight, while the moving load of 3000 lbs. per foot is supported by Wire Cables. (See Diagram.)

The tension allowed in iron is 5 tons per sq. in. The compression allowed is 4 tons per sq. in. Length of one Panel = 18 ft.

**306 ft. Span.**

<table>
<thead>
<tr>
<th>Panels</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>Total Weight of 8 Panels, 8 Feet.</th>
<th>Aggregate.</th>
</tr>
</thead>
</table>

**Tension**
- 2 Tie Rods
  - 14.0 T
  - Weight per foot: 5.04 lbs
  - Length in feet: 35
  - Weight in lbs: 176.4

**Compression**
- 2 Posts
  - Compression: 5.18
  - Weight per foot: 5.04 lbs
  - Length in feet: 35
  - Weight in lbs: 176.4

**Lower Chords**
- Tension: 120.6
  - Weight per foot: 1.91 lbs
  - Length in feet: 18
  - Weight in lbs: 218.8

<table>
<thead>
<tr>
<th>Panels</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>Total Weight of 8 Panels, 8 Feet.</th>
<th>Aggregate.</th>
</tr>
</thead>
</table>

**ADDITIONAL WEIGHT.**
- Weight of 43 Place beams, iron, 21 X 18 X 27 in. long, at 8 lbs. each: 41.820 lbs
- 2 Longitudinal Girders, 20 X 27 X 17 in. long, at 9 lbs. each: 16.270 lbs
- 10 truss plates, 20 X 27 X 17 in. long, at 7 lbs. each: 16.270 lbs
- 42 pieces of 20-gauge overhead Cross Channels, 12 X 20 X 27 in. long, at 7 lbs. each: 27.665 lbs
- 26 pcs of 4' overhang Cross Channels, 12 X 20 X 28 in. long, at 12 lbs. each: 19.008 lbs
- 2 sets of overhead horizontal Tie Rods and Rings, 11 in. diam., 96 lbs. each: 96 lbs
- Iron Rails, 75 lb. per yard: 15.300 lbs
- 36 pcs of 2 X 3 X 3 in. angle iron, 10.5 lbs. each: 187.630 lbs
- 6 X 4 in. angle iron, 42.4 lbs. each: 38.720 lbs
- Total aggregate weight of one single line of Truss: 185.720 lbs
- Total aggregate weight of the whole Bridge: 189.720 lbs

One half this amount for a single Truss.