measured along the horizontal line connecting the points of suspension.

The length of the flooring is 1000 feet, and the total permanent weight of the suspended portion of the bridge is, in round numbers, 2000 tons.

In determining the weight of the transitory loads which may come upon the platform, a prudent economy would suggest the propriety of examining the character of the transportation likely to pass over the bridge.

It is estimated, in the official report of the Company, that the present tonnage along the line of the road which will cross the bridge, will amount to — — 7050 tons.

To which is added, in the report, 80 per cent. for the conjectural increase, — 5640 .

Producing for the probable future annual tonnage, — 12,690 tons. exclusive of certain agricultural productions, live stock and lumber prepared for market.

This is given as the official estimate; but in preparing for the accommodation of the trade of any extensive district of country, it would be prudent to look forward to a much greater business than this, where the estimated amount is intended to control the proportions of any important structure.

If we assume 30,000 tons of freight per annum for the business that will pass over this bridge, in addition to the usual complement of passenger trains to be found on other successful lines, we will approximate