DATA FOR DESIGNING IRON HIGHWAY-BRIDGE SUPERSTRUCTURES, AND ESTIMATING THEIR COST.

Class of bridge required.
Length of span or spans.
Width of clear roadway.
Headway required in clear above floor.
Live load, if different from the ordinary.
Wind pressure per square foot, if different from the ordinary.
Any extraordinary load, such as paved flooring, heavy falls of snow, etc.
The velocity of passing loads.
Distance of bridge site from nearest railway-station or seaport.
Quality and condition of the roads between these places.
Nature of bed of river, and velocity of stream.
Height of lower chord above bed of river.
Cross section of stream at crossing, showing borings, if any have been made.
Angle which the direction of bridge makes with axes of piers or abutments.
Nature of the country at the site.
Any special difficulty that may be anticipated for the raising.
Kind of falsework it would be advisable to use.
Cost of piles at various places in the neighborhood, if any be required.
Cost of transport of same to site.
Cost of timber per thousand for falsework.
Probable value of falsework timber after bridge is finished.
Cost of withdrawing piles, if necessary.
Number of lineal feet of piles required.
Number of feet of lumber for falsework.
Cost of spikes, bolts, and nails for falsework.
Cost of driving piles.
Cost of transporting pile-driver to and from site.
Common laborer’s wages.
Skilled laborer’s wages.
Foreman’s wages.
Wages for team and teamster.