may be either solid rolled flange-beams, single or in pairs, or beams of lighter section deeply trussed; or, finally, riveted plate web-girders, the two last being better than the first—not that they are necessarily stronger, but from the great depth thereby attainable, there is less spring to

FIG. 17.

HALF SECTION PLAINFIELD BRIDGE.

SIDE VIEW PLAINFIELD BRIDGE, 104 FEET SPAN. BY THE AUTHOR.