SC H O L I U M.

The shape of Bridges on this plan, that are required to be built in exposed situations, is regulated according to the exigency of the case, in the following order.

RULE. 1.

1. If the foundations for the abutments on either shore should be unsound, then the under part of the said abutments must be concave, either in an elliptical, conical, or spherical form, according to circumstances. See foundations, plate 4.

2. According to the degree of infirmness in the said foundation, so will the width of the lowest part of the abutment be increased; such increased width to be lost or expended perpendicularly in a battering concave circle, on the external sides of the said abutment walls, by the time they are erected to their full height; or the said extra width may be lost or diminished in the side buttresses thereof, where they occur.

3. The abutments in such like foundations as the last mentioned may be built in various forms, suited to the requirements of the local situation, one of which may be on the plan of two plane triangled stone pyramids on each shore, the bases of each to be concave, on the under side thereof, to a certain height. See plate 5, fig 1.