This plate may extend, say within 8" of the centre of connecting-pin at the 2nd node, where it may be connected with a 5-8th" plate, by 2 splice-plates about 27" long, (see A, F. 61,) with a net section equal to that of the 7-16" plate, or, say ¼" thick.

Fig. 61 exhibits a disposition of rivet and pin holes at A, so arranged as to preserve the full section of plates, less the diameter of a single 1" rivet hole. Or, the splice-plates may be 7" shorter and 1-6th thicker, and the two rivets next the joint on either side, opposite one-another, as at B, F. 61; thus giving the same section (of splice-plates) throu' the two opposite rivets, in the thicker, as through one rivet in the thinner and longer splice-plates.

Fig. 61.

In this case, the joint should be 4½" from centre of connecting-pin, and a little more when rivets exceed 1" in diameter.

At the 3d node, an increase of section is required, and a 3-8th" plate may be added on the inside, lapping 9 or 10 inches back of the pin, with a ¼" splice-plate of the B pattern upon the outside, to balance the extra inch in width required for opposite rivet holes, and a 2" pin hole.

The inside plate continuing past the next or 4th