will require from 2 to $2\frac{1}{2}$ years to complete the four cables.

I. TOWERS AND ANCHORAGES.

The building of the lofty stone towers and the massive anchorwalls, works of unsurpassed magnitude, has already been extensively described in various reports and scientific journals, so that I can confine myself to the repetition of some principal dimensions, especially as far as they have bearing on cable-making.

The towers, containing 40,000 cubic yards of masonry each, are built throughout of granite, coming from over twenty different quarries of Maine. Their dimensions are at high water line 140 by 59 feet, and on top below the cornice 126 by 43 feet. The summit is 272 feet, and the saddles in which the cables rest, 287 feet 6\$\frac{1}{2}\$ inches above high water. The cast iron saddles, (see Figs. 39 and 40), weighing 12 tons each, rest on 43 iron rollers of 3\$\frac{1}{2}\$ inches diameter, which are moveable on a cast-