plete set of the plans and computations for the work. By this approval is not meant that the inspector is merely to give a favorable opinion as to the plan, but that he is to find, as a matter of fact, whether the proposed dimensions and proportions are such as will make a safe bridge—and just what a safe bridge is, can be plainly defined by law, as it is in Europe, and as it has been proposed by the American Society of Civil Engineers. For example, if the law says that an iron railway bridge of 100 feet span shall be proportioned to carry a load of 3,000 pounds per lineal foot besides its own weight, and that, with such a load, no part shall be strained by more than 10,000 pounds per inch, all the inspector has to do is to go over the figures, and see that the dimensions given on the plan are such as