

been let at an amount about \$10,000 under the engineer's estimate, the latter being based on normal conditions.

The design of the north abutment possesses some points of considerable interest. As shown in Fig. 5, the wall has been divided into sections with alignments at angles to the centre line of the bridge. Section 1, 30 ft.

46.56 ft. long, the height decreases owing to an elevation of 2 ft. of the base, while the thickness of the base of the retaining wall decreases with the height to 6 ft. 10½ in. Wall section No. 5, which is illustrated in Fig. 6, is 54.25 ft. long with a depression of the base to 15 ft. and a corresponding enlargement of the base to 7 ft. 4½ in. in

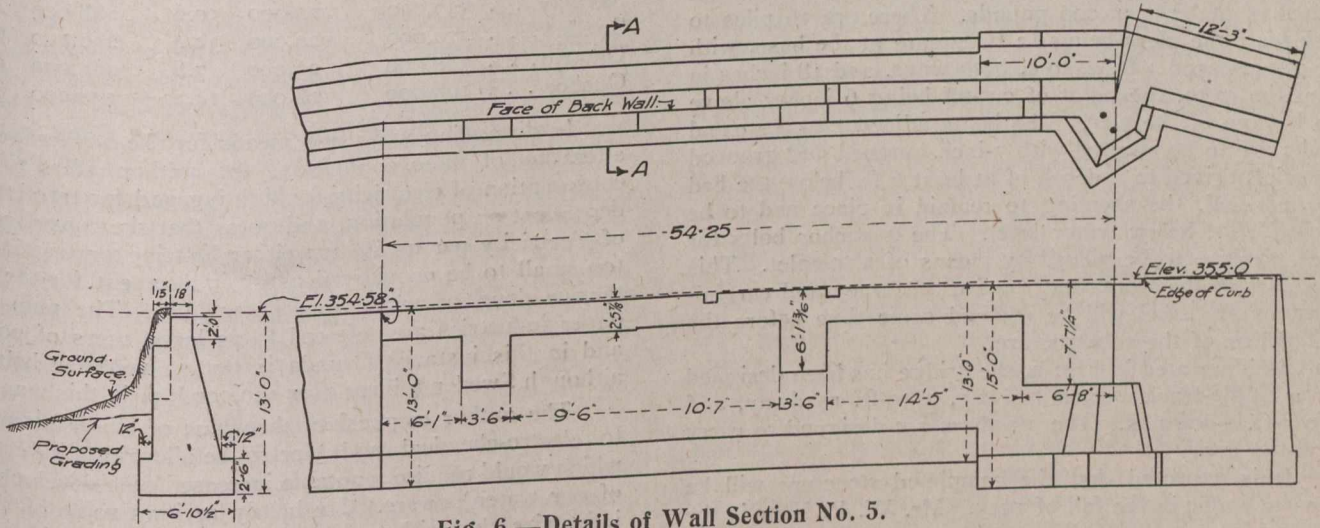


Fig. 6.—Details of Wall Section No. 5.

in length, marking the extreme end of the abutment along Yates St., is shown in detail in Fig. 3. It varies in height from 13½ ft. to 17 ft., and includes a pilaster at the intersection with wall section No. 2. Section No. 3, the details of which are shown in Fig. 4, which is 33.19 ft. in length, is uniform in depth, 15 ft., and its section corresponds to section BB' in dimensions. In section 4,

width, as shown in Fig. 5. The centre line of the bridge is crossed by this wall section, and a pilaster, shown in Fig. 6, connects a sub-section 12 ft. 3 in. in length, which forms the extremity of the abutment wall.

The south abutment, 24½ ft. in length, is shown in Fig. 7, which illustrates clearly the general features of its design and the proportioning of the supporting walls.

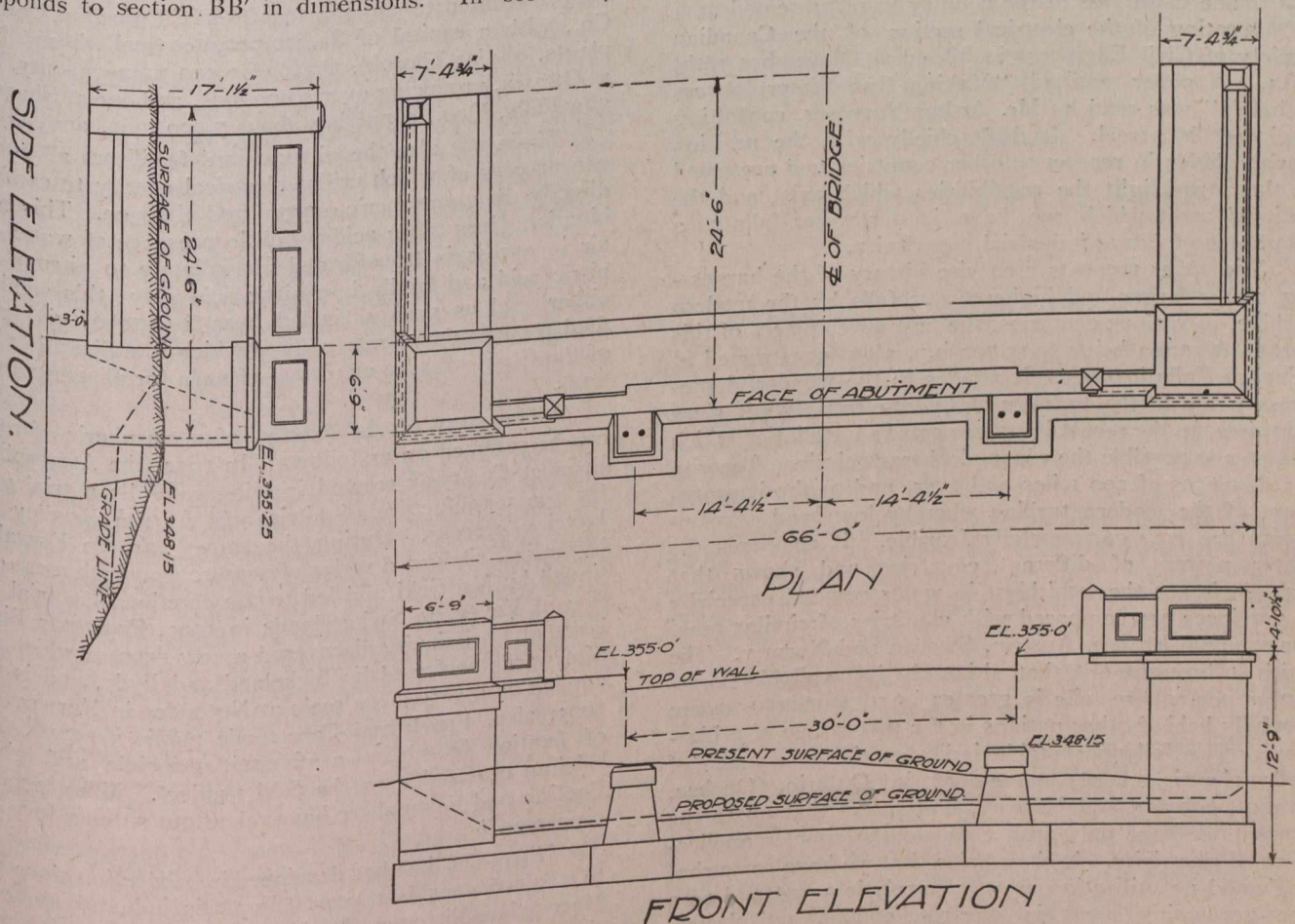


Fig. 7.—General Design of South Abutment.