

a 175-foot tower; the centre and east shore towers are each 88 feet high.

When the Commission took over the Simcoe Railway and Power Company in 1914, a number of minor changes were made in the metering equipment in Big Chute Generating Station to make it conform with the Commission's requirements.

In 1917 some 2,200-volt equipment was installed to supply the Department of Railways and Canada with power and light for the marine railway installed at Big Chute.

In view of the rapid increase in the power demands of the Severn System, it became necessary, early in 1917, to proceed with the extension of the Big Chute Generating Station.

To secure the additional capacity, a new penstock and a fourth turbine were required, together with two new

valves, head gates and the necessary power house sub-structure and super-structure. (See plan of Big Chute Development).

The Dominion Bridge Company of Montreal secured the contract for steel penstock, which is nine feet in diameter and about 170 feet long. A contract was placed with the Wellman-Seaver-Morgan Company for a double-runner spiral case turbine of 2,300 brake horsepower under a 50-foot head running at 300 revolutions per minute. The contract for two 60-inch diameter gate-valves, together with two head-gate mechanisms, was awarded to the Bovington Hydraulic & Engineering Company, of Lindsay. The extension is 38 by 60 by 30 feet high over the generator room and 40 feet high over the transformer and high tension rooms. The

