



HEADWORKS OF POWER HOUSE

Power Development at Drummondville, P.Q.

Southern Canada Power Co. Is Building Concrete Dam, 1,700 Ft. Long, Extending Diagonally Into St. Francis River, and New Power House With Capacity of 18,000 H.P.—3,500 H.P. Vertical Units, 32 Ft. Head

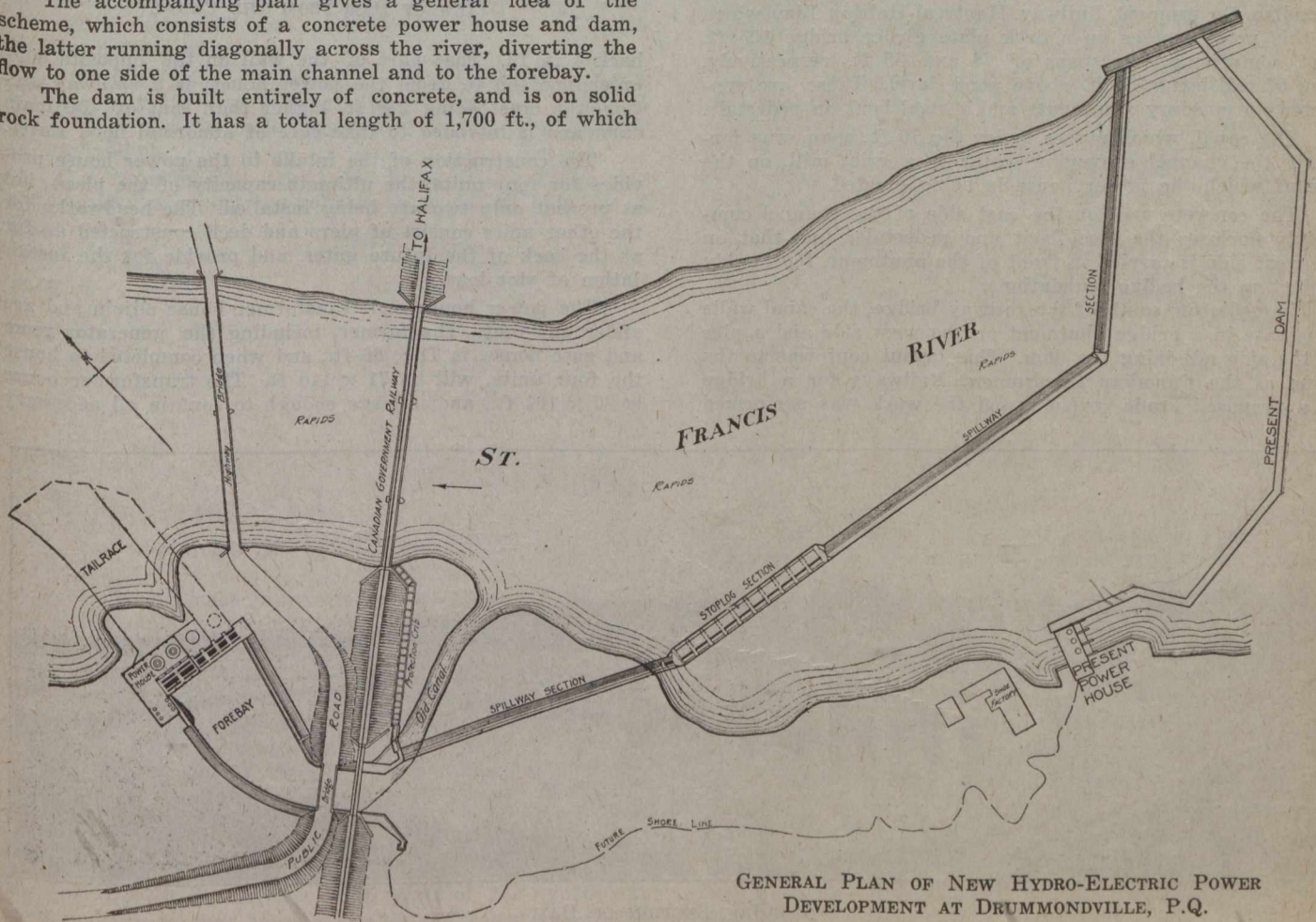
AT Drummondville, P.Q., on the St. Francis River and about sixty miles east of Montreal, the Southern Canada Power Co., Ltd., of Montreal, is constructing a hydro-electric power development. At that point, the St. Francis River has a fall of about 32 ft., comprised mostly of rapids below the present timber dam, which is about 5 or 6 ft. high, supplementing the head for the power plant now in operation. The ultimate capacity of the development is to be 18,000 h.p., but at present only one-third is being utilized.

The accompanying plan gives a general idea of the scheme, which consists of a concrete power house and dam, the latter running diagonally across the river, diverting the flow to one side of the main channel and to the forebay.

The dam is built entirely of concrete, and is on solid rock foundation. It has a total length of 1,700 ft., of which

1,440 ft. is an overflow section, having a maximum height of 16 ft. (see drawing). The stop-log section is 260 ft. long. The latter consists of nine piers, 6 ft. wide and 30 ft. long, with an abutment at the junction with the spillway at each end.

The piers are spaced 26 ft., centre to centre, providing a clear opening of 20 ft. The apron is at the same elevation as the bed of the river, the clear opening beneath the deck



GENERAL PLAN OF NEW HYDRO-ELECTRIC POWER DEVELOPMENT AT DRUMMONDVILLE, P.Q.