

\$6,000,000 SEWERAGE SCHEME RECOMMENDED FOR WESTERN PART OF YORK TOWNSHIP, ONT.

COMPLEMENTARY to the report on the sewerage scheme for the eastern division of York Township, Ont., which was published in last week's issue of *The Canadian Engineer*, is the report which has just been submitted by the township engineer, Frank Barber, and his associate, R. O. Wynne-Roberts, planning a sewerage scheme for the western division of the township at an estimated expenditure of about six million dollars. The following information is abstracted from the report:—

The topography of the western division, which includes that part of the township from Oriole parkway on the east to the Humber river on the west, but excludes the subdivisions which are located north of St. Clair avenue, Toronto, near Jane street, is such as to render it impossible to design a scheme similar to that proposed for the eastern division, where the engineers recommend one large sewerage system capable of being divided into sections which could be constructed as required. The general inclination of about half of the western division is south and southeast towards the city of Toronto, the other half tending to fall southeast towards Black creek.

It would be impossible to drain the sewage and roof water from most of this division towards Black creek, but when storm water has also to be disposed of, then the dimensions, and therefore the cost, of the sewers become prohibitive. Consequently, it has been considered advisable to split the division into ten sections, of which all but one will have a combined system of sewers for sewage and storm water.

The proposed sections, which are localized by their names, are as follows: (1) Bathurst, (2) Cedarvale, (3) Oakwood, (4) Silverthorne, (5) Eglinton, (6) Roselawn, (7) Bedford Park, (8) Upper Black Creek, (9) Lower Black Creek, and (10) Mount Dennis.

1. The Bathurst section, which is described as the district lying east of Forest Hill road and Bathurst street, from the vicinity of Upper Canada College to Wilson street, has an area of 1,030 acres, and drains naturally towards the city of Toronto by streams flowing southeast to the Don river.

The watersheds of these streams have a total area of 3,544 acres, and are tributary to the natural water-courses

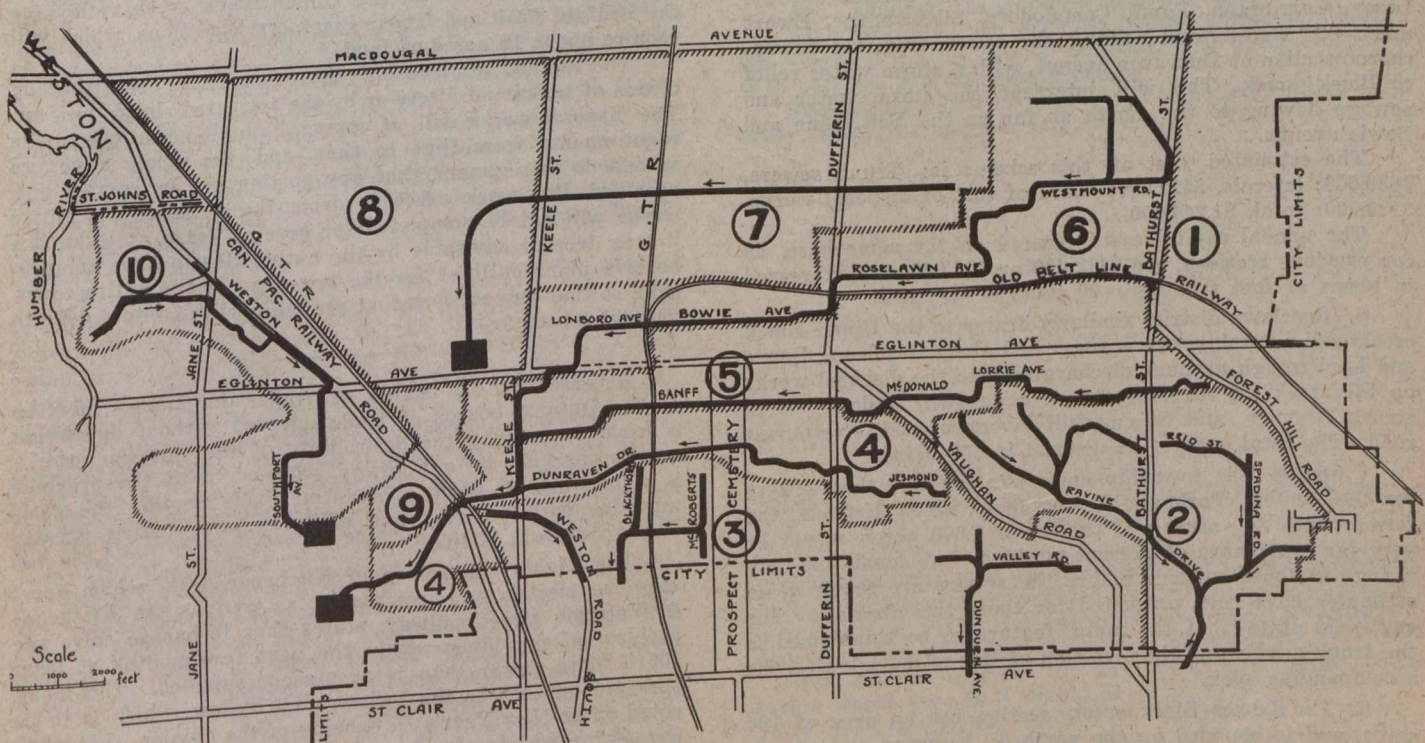
passing through North Toronto. As provision was made for the drainage of the natural run-off from these watersheds into the proposed trunk sewers for the North Toronto drainage system, the engineers recommend that the Bathurst section should be sewered into the city system.

The estimated cost of sewers is \$920,000 for trunk sewers and \$616,000 for laterals, which, based upon 30-year 6% debentures for trunk sewers and 10-year 6% debentures for laterals, would indicate an annual capital cost of \$149,000, or \$112,000 if based upon 30-year 6% debentures for the whole work. On a frontage basis, this amounts to 48 cents and 37 cents per foot respectively, and adding the city's present charge of 23 cents per foot for outlet rental and maintenance, the amount is 71 cents per foot per annum.

2. It is proposed that the Cedarvale section shall extend from Forest Hill road on the east to Vaughan road and Oakwood avenue on the west, and from the Toronto city limits on the south to Dearborne and Lorrie avenues on the north; this comprises about 530 acres. The natural outlet for the sewage and storm water is to Rosedale creek, and the works commissioner of Toronto stated in 1915 that a portion of the section could be drained into the Rosedale creek sewer.

The total area of the watershed of Rosedale creek is 2,100 acres, with a runoff towards the city of Toronto. The city authorities are bound to accept the natural flow, but they contend that they are not responsible for the disposal of sewage or streams when houses are built and streets are graded and paved. The York Township engineers consider that the city of Toronto should provide outlet facilities for the sewage and storm-water from the Cedarvale section, with the understanding that three trunk sewers shall be constructed across the watershed when required in the future, namely, on Dearborne and Lorrie avenues for the Eglinton section, on Roselawn for the Roselawn section, and on Park road for the Bedford Park section, these trunk sewers to act as interceptors and to divert the storm-water to Black creek, thus limiting the discharge into the city of Toronto to that from the Cedarvale section solely.

The cost of sewers in the Cedarvale district is estimated at \$422,000 for trunk sewers and \$342,000 for laterals, with an annual capital cost of \$77,000 or \$56,000 (equivalent to 50 cents or 37 cents a foot), depending upon whether 30-year 6% debentures are considered for trunk sewers only or for the whole system. The addition of the annual charge of 23



PROPOSED SEWERAGE SCHEME FOR WESTERN DIVISION OF YORK TOWNSHIP, ONT.