

auxiliary sewers have been carefully considered with reference to good service and economy.

It may be remarked at this place that in the future the present sewer on Slater street will require a relief from storm water surcharge. This can be arranged by an overflow drain on Bank street or O'Connor street to the Ottawa river ; by another from the corner of Musgrove and George streets to Nepean Point ; and still another from the corner of Cathcart and King streets to the Rideau river.

The city area is divided by special tints so as to bring out clearly the areas now drained, those to be relieved, those to be drained by the proposed sewers, and those from which the surface water shall continue to run, as now, into the adjoining water courses.

The profile, which accompanies the plan, indicates the depth of the main sewers and will otherwise explain itself. The rock excavation has been determined from the results of borings furnished me. Where such were not available assumptions had to be made. It goes without saying that the quantity of rock to be excavated materially affects the cost.

On Templeton and Nelson streets it will be necessary to raise the street surface, so as to provide sufficient covering for the sewer. This expedient will cost less than lowering the sewer for its entire length. It also raises the level of the overflow at the river, which is an advantage both in economy and efficiency.

In proportioning the sizes of the main sewers I have excluded the storm water from areas close to the Rideau canal and river, as it can be permitted to enter these water courses without detriment. Of the entire undrained territory the storm water from about 300 acres has been thus excluded from the sewers and permitted them to be of smaller sizes.

The two main sewers above described can be thoroughly flushed by water from the Rideau canal at times when there is a surplus of water available. The eastern main sewer may also be flushed with water from the Rideau River.

The estimates of cost are believed to be ample in each case to carry out the work, excepting that they do not include the cost of