

these variations is the manner of relieving the existing sewer on Florence and Waverly streets, which is accomplished at two points instead of at one point. This was done for economical reasons as the total cost thus becomes less. The excess of water on Florence street is taken off at Bank street, instead of after it has had a roundabout course to Cartier street, and the size of the sewer on the latter street is reduced. A sewer also for local purposes is thereby provided on a part of Bank street.

Dotted red lines show the streets where tributary interceptors and branch sewers should be located, when required.

The principal tributary sewers are : One extending from the main sewer at Isabella and O'Connor streets to Centre and Bank streets, passing under Patterson's Creek ; and the other extending out Preston street passing along the east side of Dow's Lake, and to the intersection of Centre and Gordon streets.

There should be a storm water overflow at the eastern end of Somerset street where the main sewer reaches the Rideau river, as the river is sufficiently large to provide a good dilution. To make sure that no trouble will arise it has been assumed that this overflow will not act until the sewage is diluted twenty times. The overflow opening must be protected by a flap valve, so that the river water during high stages does not enter the sewer.

The Rideau river can be crossed at St. Patrick street without depressing the sewer. If the river bed is lowered, as has been proposed, then the sewer must cross as an inverted siphon, in the shape of two 30 inch steel pipes, laid in a trench on the bottom and surrounded with concrete.

The present sewer on River Lane would be replaced by the proposed sewer between the corner of Charles and John streets and the Ottawa river.

The alignments not only of the main trunk system, but also of the