

Also—Sections or profiles of all the streets and roads, plotted on profile paper to a scale of 100 ft. horizontal to 30 ft. vertical.

Chief Matters for consideration. In designing a system of sewerage, the principal matters requisite to be taken into consideration are—

- 1st. The area to be drained.
- 2nd. The rainfall.
- 3rd. The topography of the district.
- 4th. The population both present and prospective.
- 5th. The water supply.
- 6th. Existing sewers.
- 7th. Ventilation.
- 8th. The difficulties in the way of carrying out the proposed scheme.
- 9th. The probable cost.

Object in preparing scheme. It must be borne in mind that it is not now proposed to construct the whole of the sewers laid down upon the plan. The chief object in preparing this scheme being that in all new constructions a system might be adhered to which would be adapted to our prospective wants.

AREA.

Area of City. The area of the whole city is 4,363 acres. The total area which will ultimately be drained by the proposed system of sewers is 2,236 acres. This may be termed the city proper, as it includes the whole of that portion of the peninsula of Halifax which has been laid off into streets, besides a large suburban district.

Sewers at present unrequired. Nearly half of the sewers shewn on the plan are not now, nor will they be, required for many years to come. For this reason I have thought it advisable to again sub-divide—what I have termed—the city proper, into two divisions, shewn on the plan by the tinted purple line.

Sewers now required. Within the purple line the streets are mostly built upon, and the town may be considered as growing rapidly inside of this limit. New sewers are therefore more required inside of this sub-division than beyond it, and a separate estimate is given of the cost of constructing these, nearly all of which are now required for the health of the town. The construction of the others may be deferred until they are wanted.

RAINFALL.

For statistics of the rainfall I am indebted to Mr. Frederick Allison, M. A., Chief Meteorological agent to the Dominion Government.