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Westmount Ave Reconstruction and Servicing - St. Paul Rd to St. John Rd Town of Innisfil

Project Facts

Client: Town of Innisfil

Scope of Work:

- Preliminary and detailed design
- Public and client meetings
- Tendering
- Traffic management
- Earth excavation
- Sanitary and storm sewers
- Secondary storm system
- Concrete curbs, gutters and sidewalks
- Hot mix asphalt
- Construction administration.

Project Cost: \$1,500,000 (2007)

In 2007, the Town of Innisfil retained the Ainley Group to complete the engineering design, contract document, specifications, final design drawings, cost estimates and construction administration for the reconstruction, urbanization and servicing of Westmount Avenue from St. Paul Road to St. John's Road including St. Paul Road and Windsor Street south of Westmount, approximately 600 metres in total.

Westmount Avenue is currently a rural cross section with open ditches on both sides of the road. Properties on the south side of the road lie slightly lower than the existing centre line road profile. The design proposes to upgrade the street to an urban design standard with curb and gutter for improved drainage, sidewalk on the north side (high side) of the road and the installation of storm sewers, catchbasins and ditch inlets. The design also includes the construction of sanitary sewers and sanitary servicing to the existing residents. The existing watermain is not being replaced. Co-ordination with the Ministry of the Environment was required for approval.

During preliminary design, a problem was encountered while completing the stormwater design calculations as the downstream system had not been designed to accommodate the future capacity generated upon the installation of the proposed storm sewers. This problem was alleviated after developing various design alternatives and ultimately choosing the option that satisfied the Town and maintained the capacity of the downstream system.

As the properties on the south side of the road are lower than the centre line road profile, the design included lowering the road grade such that the low properties could drain toward the road. This created a problem as the Geotechnical report indicated a high water table which limited the road cut. To satisfy this issue, the design included the construction of a shallow swale behind the proposed curb with a secondary storm sewer system to collect the surface water from the low properties. The swale and additional storm system was limited to Westmount Avenue east of Windsor Street. Construction on Westmount Avenue is scheduled for May 2008.