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*The existence of high-pressure gas mains on both sides of the highway and abandoned steel piping complicated the trenching process.*

## Highway 26 Watermain Town of The Blue Mountains

In 1997, the Town of The Blue Mountains retained the Ainley Group to prepare a Master Servicing Plan for the whole of the newly amalgamated town. A looping watermain along the Highway 26 corridor was one of the projects identified in the Master Servicing Plan. In 1999, the Town authorized the Ainley Group to proceed with the design of this watermain.

The initial conceptual route of the watermain was on the south side of the highway, since the connection to the existing east and west trunk mains were on that side. Connections to properties on the north side of the highway would be made by individual service laterals; however, investigation prior to final design indicated that bedrock was prevalent throughout the entire corridor, commencing at a depth of less than one metre. Concerns about encroachment onto the travelled portion of the highway, the existence of a high-pressure gas main on both sides of the highway and the need for extensive rock excavation led to the decision to route the watermain across the highway to service the properties on the north side. A second, smaller diameter watermain would run along the south side, in-between the crossing points.

The detail design of the water main was completed and an application was made to the MOE for a Certificate of Approval to construct. The approval was issued in April 2000.

### Project Facts

**Client:** Town of The Blue Mountains

#### Scope of Work:

- Master Servicing Plan
- Geotechnical investigation
- Detailed design
- Extensive rock excavation
- Contract tender evaluation
- Construction administration.

#### Key Design Criteria:

- 150 metres of 150 -mm dia. watermain
- 410 metres of 250-mm dia. watermain
- Two 50-mm dia. water services connections
- Eight 19-mm dia. water services connections
- Fire hydrant
- Connection to existing watermain
- Additional watermain insulation.

**Project Cost:** \$835,000 (2000)