

Precast Concrete Solutions for **BRIDGES**

Dartmouth Crossing Interchange

Dartmouth, Nova Scotia



Dartmouth Crossing is a \$260 million dollar retail development built on land between Burnside and highway 118 that used to house a heavy industrial area. The project was, at the time, the biggest retail development east of Calgary. Beginning in 2005, the project was completed in three phases: Site Preparation, Infrastructure Installation and Above Ground Construction. When completed, the overall project will cover more than 196 acres.

One of the major benefits of this retail development offers is the multiple access points. It is accessible directly from Burnside Industrial Park via Commodore Drive and Wright Avenue as well as via highway 118. A new interchange needed to be constructed during the infrastructure phase of the project to connect the new development to highway 118. Because of the close proximity to Shubie Park, an urban trails park centred around the Shubie Canal, many public meetings were held in order to come up with the most environmentally sensitive layout. In the end the design included direct access and egress to the trails from Dartmouth Crossing by way of a pedestrian bridge installed with the interchange. Retaining walls were installed along the northbound lanes of the interchange in order to block a significant amount of traffic noise from Shubie Park.

To keep with being environmentally sensitive, as well as aesthetically pleasing the customer chose to install 16 pieces of 1600 mm deep New England Bulb Tee girders to span 21.5m and 34.5m (70' and 113') over the four lanes of highway along with a new service lane. The precast concrete NEBT girders blended nicely with the stone retaining wall, keeping with the natural appeal of Shubie Park.



Project: **Dartmouth Crossing Interchange - Dartmouth, NS**
 Owner: **Nova Scotia Department of Transportation**
 Engineer: **Stantec Engineering - Dartmouth, NS**
 Contractor: **Dexter Construction - Bedford, NS**



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