

Precast Concrete Solutions for **BRIDGES**

Addington Forks Underpass

Antigonish, Nova Scotia



The Antigonish Bypass project began in 2009.

Phase one of the project was completed in September of 2012 and Phase two plans to be complete by 2015. The bypass project is extending the Trans Canada Highway (104) to bypass the town of Antigonish. Before this project was underway, when traveling along the highway 104, motorists had to drive through the town of Antigonish, slowing from 110 km/hour to 60 km/hour. There were also traffic lights, causing traffic congestion and slowing down travelers continuing through on the trans Canada highway.

Phase one of the bypass project began at Addington Forks Road and ended at Beech Hill Road, a total of 7.5 kilometres. Phase two will continue from Beech Hill Road to Taylor Road, another 8 kilometres. One of the first installations of the bypass project was the Addington Forks Underpass. Since the underpass is located on the busiest highway in Nova Scotia, it was important to construct it as quickly and efficiently as possible while using a product that would have low maintenance in the future. Precast Concrete New England Bulb Tee girders (NEBT) and Stay-In-Place (SIP) deck slabs were the obvious choice for this structure. NEBT's have long spans to extend across the major 4-lane highway and both NEBT girders and SIP deck slabs cut out the inconvenience of cast-in-place concrete formwork.

Strescon Limited provided 10 pieces of 115' long 1800mm deep NEBT girders and 60 pieces of 4" thick SIP deck slabs (5,270 sq.ft.) for the Addington Forks Underpass, the first of 6 overpasses and underpasses using precast concrete along this section of highway.

Project: **Addington Forks Underpass - Antigonish, NS**

Owner: **Nova Scotia Transportation and Infrastructure Renewal- Halifax, NS**

Engineer: **Harbourside Engineering - Halifax, NS**

Contractor: **Nova Construction Co. - Antigonish, NS**



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