

McCaffery Bridge Deck Replacement

Halifax County, Nova Scotia

*Focus on
Precast Concrete Solutions*



The Residents of Middle Musquodoboit found themselves stranded in the winter of 2003 after the collapse of **McCaffrey Bridge**, a main structure on Rte 224. A temporary bridge was quickly installed to allow traffic to flow through to Middle Musquodoboit, but limited the weight capacity of truck traffic. Rte. 224 being a main thoroughfare for the logging industry, NSDOT had to come up with a plan to replace the existing bridge. In the early fall 2003 a design build tender was requested.



Project: **McCaffery Bridge Replacement - Halifax County, Nova Scotia**
Structural Consultants: **Wagh Associates Ltd. - Dartmouth, Nova Scotia**
General Contractor: **J.G. Hartling Limited - Dartmouth, Nova Scotia**
Precast Fabricator: **Strescon Limited - Bedford, NS**



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Strescon is a member of the OSCO Construction Group

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TRANSPORTATION STRUCTURES
Precast / Prestressed Concrete Bridge Deck Slabs



First deck slab arrives on site.

The tender was to remove the existing timber bridge, design and build a new 12m clearspan concrete structure. Due to the short construction period given and a late completion penalty clause, a quicker solution had to be found rather than a conventional cast-in-place concrete deck.



Deck slabs are set into place on abutments.



Once all deck slabs are placed the joints will be grouted.

J.G. Hartling Limited in conjunction with Waugh Associates Limited submitted and were awarded a contract by NSDOT utilizing cast-in-place abutments and 450mm deep Precast Prestressed site post-tensioned solid deck slabs.

Once awarded, the existing timber bridge was quickly removed. Next, the cast-in-place abutments were formed and ready for the Precast Deck Slabs. With in half a day all nine deck slabs were placed and the bridge was ready to be completed. An asphalt wear surface was placed over the Precast Deck Slabs, the bridge was opened to traffic.



Deck slabs are transversely post-tensioned to tie slabs together.



Setting the final Deck slab, with curb, into place.



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