



Arch Culvert Reline

Location

Pointe au Baril Station, ON

Owner

Ontario Ministry of Transportation (MTO)

Contractor

Fowler Construction Company Ltd.

Site Supervisor

Christopher Solomon
Special Projects Foreman, MTO

Highway 69 is a key transportation link between Southern and Northern Ontario. This highway is used extensively by the trucking industry as well as the general public. In early 2008, an arch culvert located on Highway 69 just north of Pointe au Baril Station had fulfilled its predictable service life. The MTO was required to make the strategic decision of either replacing or rehabilitating the arch culvert. Due to the fact the arch culvert needed to be restored with minimal disruptions to traffic, the MTO elected to rehabilitate the arch culvert using relining.

HWY 69
Open During Culvert
Rehabilitation

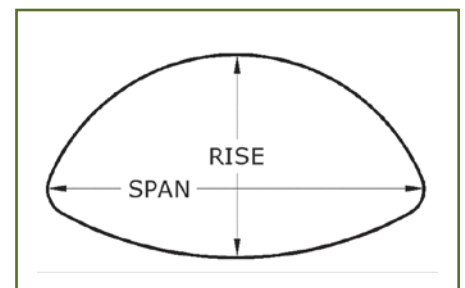
Project Details

A reline system using CANADA CULVERT's STEELCOR CSP Arch was selected to closely match and maintain the existing arch culvert's design characteristics. The low, wide pipe arch shape design provided the hydraulic advantages needed to handle large volumes of water under low head conditions.

Relining the arch culvert using STEELCOR was an easy and effective solution that reduced overall project costs and provided significant time savings. STEELCOR CSP Arch gave the Moose Lake Culvert an extended service life without compromising the traffic-flow of this highly-travelled highway.

STEELCOR is available in several arch sizes and profiles. For this project, CANADA CULVERT supplied a complete reline system including:

- 33m of 2500mm x 1830mm x 3.5mm STEELCOR CSP Arch
- Internal annular couplers complete with neoprene strip gaskets to positively seal pipe joints
- Strategically located grout fittings to allow grouting in three level lifts
- Telescopic support jacks to hold the reline pipe in place during grouting
- Inspection holes located throughout to ensure grouting was completed properly without voids



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