



Atlantic Industries Limited

# PROJECT PROFILE



April 9, 2019

## Versatile Bolt-A-Plate used for backwalls in NWT bridge projects

**This style of structure is favoured because risks of permafrost settlement issues are minimized**

Drainage culverts installed in permafrost zones are susceptible to Our versatile Bolt-A-Plate Structural Steel Plate is most commonly used in its curved form to create culverts and other structures for a variety of applications across many sectors. However, flat sheets of the popular galvanized corrugated steel product are also in demand for a variety of other applications.

In the North West Territories (NWT), flat sheets of corrugated Bolt-A-Plate were recently used with a steel pile framework to create backwalls for two bridges on Liard Highway 7, the main connection between BC and NWT.

This style of structure is used commonly in Alberta and occasionally in the NWT. It is favoured because its design is somewhat standardized and, due to the piled foundations, risks of permafrost settlement issues are minimized.

### Project at a glance:

**Name:** Liard Highway 7 Crossings

**Locations:** Liard Highway 7, NWT (at km 131.4 and km 218.5)

**Owner:** Department of Infrastructure, Government of the Northwest Territories

**Engineer:** ALL-Span Engineering and Construction Ltd.

**General Contractor:** Rowe's Construction

**Bridge Sub-Contractor:** Formula Contractors Ltd.

**Sector:** Northern, Transportation

**Application:** Galvanized Steel Backwalls for Two Bridges

**Product:** Bolt-A-Plate

**First Set of Backwalls:** Height 2.69 m, Width 20.1 m

**Second Set of Backwalls:** Height 2.54 m, Width 21.8m





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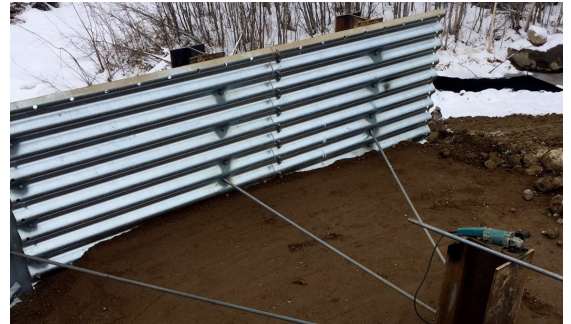
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## Available in different thicknesses

The galvanized steel plates are available in thicknesses ranging from 3 mm to 7 mm.

We maintained close contact with the contractor to quote the project correctly and meet their schedule. Due to some late changes in the backwall design by the contractor's engineer, we were able to cut some costs to reduce their original quoted price. We received positive comments and photos from the contractor after project completion.

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