Atlantic Industries Limited

PROJECT PROFILE



November 5, 2026

Bolt-A-Plate Backwalls and Wingwalls support Ardrossan Bridge replacement

AIL's Bolt-A-Plate Structural Steel Plate system demonstrated its versatility in the Main Street bridge replacement project over Pointe-aux-Pins Creek in Ardrossan, Alberta. While commonly used to create culverts and buried bridge structures, BAP was supplied for this project as flat corrugated steel sheets, forming the backwalls and wingwalls that retain the soil around the bridge approaches.



Project at a glance:

Project Name: Ardrossan Bridge Abutments

Location: Ardrossan, AB

Owner: Strathcona County

Project Consultant: MPA Engineering Ltd.

Contractor: Lafarge Canada Inc.

Sector: Transportation

Application: Bridge Abutments and Retaining Walls

Product: Bolt-A-Plate sheets

Dimensions: Two walls, approx. 15 m wide each, plus 4.88 m long wingwalls at each end, height 3.757 m

Installation Time: Approximately 7 days

Atlantic Industries Limited

PROJECT PROFILE

Fabricated from 7 mm-thick galvanized steel, the installation comprises two backwalls approximately 15 m wide each, standing 3.757 m high, with 4.88 m long wingwalls at each end. The corrugated steel panels provide structural stiffness, while the galvanized finish protects against corrosion.



Supplied in accordance with standard Alberta Transportation drawings, the BAP components provide a durable retaining solution that helps contain the approach embankments and manage the transition between the roadway and creek banks. To keep the project on budget and on schedule, AIL provided a firm quote and managed costs and timing successfully to provide shop drawings, fabricate and deliver the materials to the site on time at the quoted price.

This application highlights the adaptability of Bolt-A-Plate beyond curved drainage culverts and buried metal bridges, demonstrating how its corrugated steel components can be configured for different infrastructure requirements. From structural assemblies to flat-sheet backwalls and wingwalls, BAP offers engineers and contractors a versatile steel solution for bridge and retaining applications.

See all Project Profiles on ail.ca

Head Office:
32 York Street
Sackville, New Brunswick
Canada E4L 4R4
1-877-245-7473

Atlantic Industries Limited