



Spliced design, precast deck help expedite remote Alberta Park bridge

The Waiparous Creek Provincial Recreation Area lies deep in the Rocky Mountain foothills, northwest of Calgary. To mitigate the risks to the aquatic environment caused by instream activities following the floods of 2013, Alberta Environment and Parks needed a robust vehicular trail bridge. Our AIL Group sister company, Atlantic Industries Limited, secured the contract and collaborated with us to design and supply the new Algonquin Bridge.



Project at a glance:

Project Name: Waiparous Creek Bridge

Location: Waiparous Creek Provincial Recreation Area, Alberta

Owner: Alberta Environment and Parks

Engineer: ISL Engineering & Land Services Ltd.

Contractor: Volker Stevin Highways Ltd.

Product: Vehicular Girder Bridges

Application: Recreational Trail Stream Crossing

Dimensions: Length 28.5 m, Width 3.05 m (clear, between rails)

Installation Time: Three days, including precast deck panels

Access to the site was a challenge

Because this site could only be accessed by the narrow trail, the bridge was designed in three sections to facilitate transport. The contractor, Volker Stevin Highways Ltd., spliced the sections together at the site. We also provided precast concrete deck panels for the wearing surface. This also aided the delivery, installation and costs.

New bridge part of Fisheries Habitat Enhancement and Sustainability Program

This project is part of the Alberta Environment and Parks' Southern Alberta Fisheries Habitat Enhancement and Sustainability (FISHES) Program, which was put in place to restore damage from the 2013 floods. The bridge effectively replaced several off-highway vehicle fording sites.

Prefabricated steel bridges offer several key benefits for crossings over sensitive, flood-prone stream habitat, such as:

- Open flow designs
- Minimal site impact
- Naturally weathering, low-maintenance steel
- Easy to ship and install with local crews and equipment
- Recycled and recyclable content

With open and continuous communication, we were able to work very closely with Volker Stevin to ensure their delivery and installation went according to plan.

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