ALGONQUIN BRIDGE

Project Profile



Algonquin Pedestrian Utility Bridge supports Tla'amin Nation's wastewater infrastructure project

The Tla'amin Nation Pedestrian Utility Bridge, supplied by Algonquin Bridge, provides a vital link in the community's $16-million Wastewater Conveyance System Project, supporting both essential utility infrastructure and active transportation. Located approximately 100 metres from the Pacific Ocean, the pedestrian truss bridge carries gravity sanitary sewers and high-density polyethylene (HDPE) force mains across the terrain, connecting the First Nation's wastewater system to the City of Powell River's regional treatment facility. The project will allow the decommissioning of the aging waterfront wastewater treatment plant in Tishosum, originally built in 1973, helping protect local waterways and shorelines while creating opportunities to restore the former plant site as a public recreational space.

The marine environment presented an important design consideration. Although the original project specifications called for a weathering steel bridge, Algonquin Bridge conducted extensive research and recommended a galvanized steel structure better suited to the saltwater environment. By working closely with the consultant

Project at a glance:

Project Name: Tla'amin Nation Pedestrian Utility Bridge

Location: Powell River, BC

Owner: Tla'amin Nation

Project Consultant: WSP

Contractor: Hazelwood Construction Services

Solutions: Pedestrian & Trail Bridges

Application: Stream Crossing

Product: Pedestrian Truss Bridge with underhung utility pipes

Dimensions: 3.0 m x 41 m, 50,000 kgs

Installation Time: Site assembly 1.5 weeks and crane lift 2 days

and owner, Algonquin became a trusted advisor throughout the decision-making process, and its recommendation was accepted.

Transporting the knocked-down bridge approximately 4,700 kilometres by truck during the winter presented another set of challenges. The route required two ferry crossings, so we ensured that the load sizes were acceptable and coordinated with reliable transportation providers. Algonquin also arranged for the steel components to be washed upon arrival in Powell River to remove road salt and other debris accumulated during transit.

Pedestrian Utility Bridge advances infrastructure goals

On site, challenges associated with the abutment design required close cooperation with the contractor. With production running slightly ahead of schedule, Algonquin was ready to ship when the contractor called for the bridge, helping maintain project momentum. The structure was set on its abutments on July 9 and entered the final stages of assembly, including installation of the timber deck and guardrail system. Once complete, the bridge will provide a safe pedestrian crossing alongside its critical utility function, supporting the Tla'amin Nation's infrastructure, environmental protection and community connectivity goals.

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