



Reaching Out Across the Water for New Brunswick Power Company

Acrow panel bridge restores pedestrian access to the gatehouse of Sisson Dam Reservoir

A 150 foot (45.57m) replacement pedestrian bridge has been installed at the Sisson Dam reservoir, owned by Energie NB Power, to facilitate access to the gatehouse in the centre.

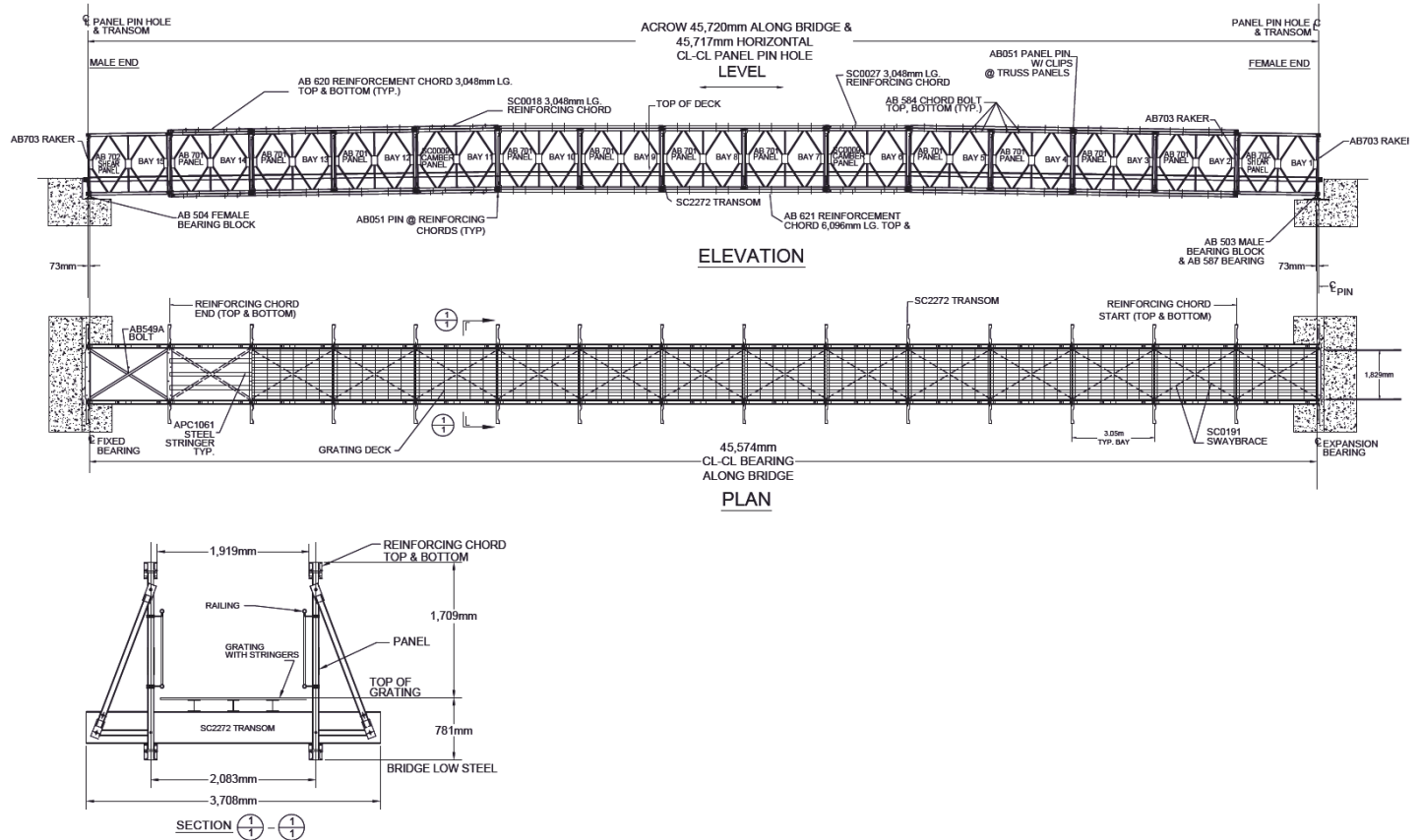
The reservoir in Sisson Brook, New Brunswick, is a unique storage dam that regulates the water flowing to the Tobique Narrows Generating Station, 112 kilometres downstream. A 1450-foot long (442m) steel penstock supplies the water to the powerhouse. After repeated acts of vandalism, including theft of its supporting cables, the original suspension bridge collapsed, and the employees could no longer access one part of the generating station.

An Acrow panel bridge provided a viable replacement for the structure at the remote site due to its ease of assembly and modularity. The new bridge was cantilever launched from the bank towards the

gatehouse with a 130 foot (40m) launching tail and counterweight, as there was no room or access on the receiving end.

Working with Design Engineer, GEMTEC and Contractor, Sunny Corner Enterprises Inc., the project, which started in October, was completed on schedule in December 2021. The power company employees can now safely access the gatehouse for operational and maintenance work once more, enabling business activities to return to normal.

Easily transported, designed and built to last, Acrow's modular steel bridges are a perfect solution for cost-effective permanent bridging needs. Made entirely from high-strength, high-quality steel from ISO-certified mills, all Acrow components are hot-dip galvanized to ensure a maintenance-free life of up to 100 years.



Specifications

Bridge length:

150' (45.57m)

Roadway width:

6.3' (1.92m) curb to curb

Deck surface:

Galvanized steel grating

Bridge erection method:

Full cantilever launch made with a launching tail

Design load:

Pedestrian load (4kPa)

Standard Acrow bridge finish:

- All major components galvanized to AASHTO M111-ASTM A123
- All bolts are hot-dip galvanized
- All pins are electrogalvanized

Standard Acrow bridge specification:

- Panel chords, diagonals, verticals, reinforcing chords, rakers to AASHTO M223 GD 65
- Raker braces, transoms, top chord braces, swaybraces, transom braces, diagonal chord braces, decking to AASHTO M223 GD 50
- Panel pins to ASTM A 193 GD B7
- Bolts to AASHTO M164M - A325