



## Acrow's Modular Steel Detour Bridge Minimizes Work Zone Impact During Major Highway Construction in Quebec

Reusable bridge offers a cost-effective solution for maintaining heavy traffic flow

Autoroute 40 in Quebec serves as the main truck route between Montreal and all points west and carries some of the highest traffic volumes in the province. During construction on two bridges on the highway, the contractor purchased a three-lane Acrow bridge to carry the traffic diverted from the worksite.

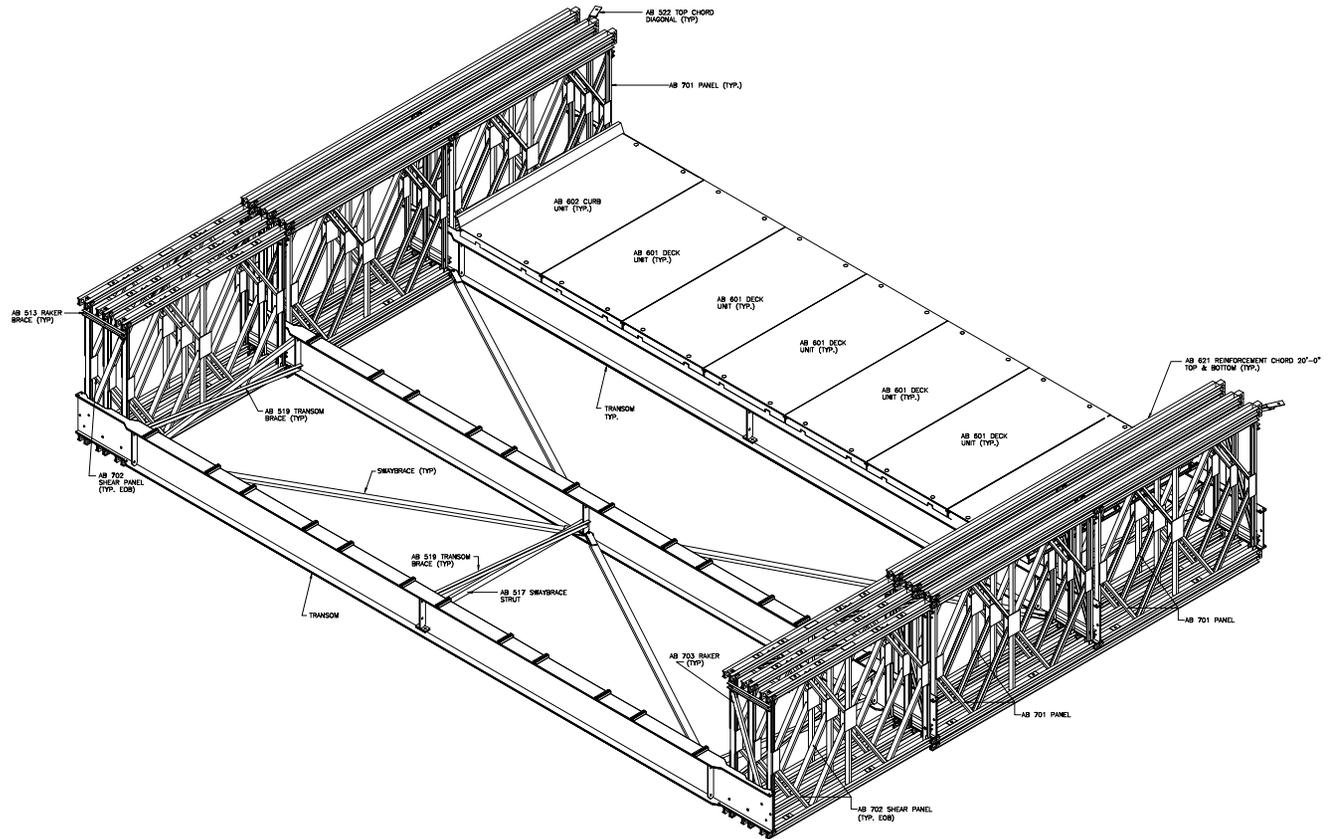
By selecting and purchasing Acrow's modular steel bridge over a traditional concrete and steel detour bridge, the contractor can reuse the bridge on future projects, achieving the desired length, width and strength by simply using more or less bridge components.

At 90 feet (27.43m) in length with a roadway of 42 feet (12.8m) in width, the bridge is one of the wider through-

type bridges Acrow has produced. The structure features Acrow's standard steel decking overlaid with asphalt.

The use of detour bridges has grown significantly in recent years as more and more contractors use them to stay on or ahead of schedule and control costs, while providing a safe and dependable route for traffic.

Acrow's modular detour bridges, which can be rented or purchased, are durable and easy to assemble, disassemble, transport, store and customize for future use. Many contractors purchase Acrow bridges, because they are a cost-effective investment and provide a proven competitive advantage.



## Specifications

### Bridge length:

90' (27.43m)

### Roadway width:

42' (12.8m)

### Guide rails:

A PL-2 guide rail was supplied by Acrow.

### Deck surface:

Asphalt overlay

### Bridge erection method:

Crane-assisted launch

### Design load:

The bridge was designed in accordance with CL625 design loading as per CHBDC-2006 code.

### 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:

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