ACROW

Temporary Replacement for Collapsed Span in Northern Italy

Acrow provides rapid response and installation to minimize traffic and economic impacts

Ponte Lenzino, located in Northern Italy's Trebbia River Valley, carries traffic across the river via national roadway S.S.45. In October 2020, flooding caused the partial collapse of the bridge, immediately impacting traffic, which was forced to take a long detour through mountainous roads. The 15km detour was of particular concern during the global pandemic, as it resulted in delays for emergency medical response vehicles.

The Italian Road Authority (ANAS) immediately began to work on reinstating the crossing, by appointing Pesaresi Giuseppe S.p.A. as the contractor. A temporary panel bridge system was considered early in the planning process to enable the rapid restoration of the route. Critically, the bridge needed be durable enough to serve local communities for the duration of the main bridge reconstruction project, which would take several years.

A single-span Acrow 700XS® was chosen, 54.86 meters (180′) long and 7.35 meters (24′) wide to handle two lanes of traffic, engineered for heavy Eurocode loads up to 44 metric tonnes.

Construction of the temporary structure took just 12 days. The bridge opened to traffic in July 2021, and will remain in place for a minimum of two years.

With decades of experience responding to crises across the globe, Acrow is a trusted leader in restoring transportation lifelines quickly, safely and reliably. On this project, Acrow's commitment to customer service and technical excellence culminated in a successful collaboration with a specialized Italian steel erector to install in the shortest time possible while assuring the highest standards of quality and safety.

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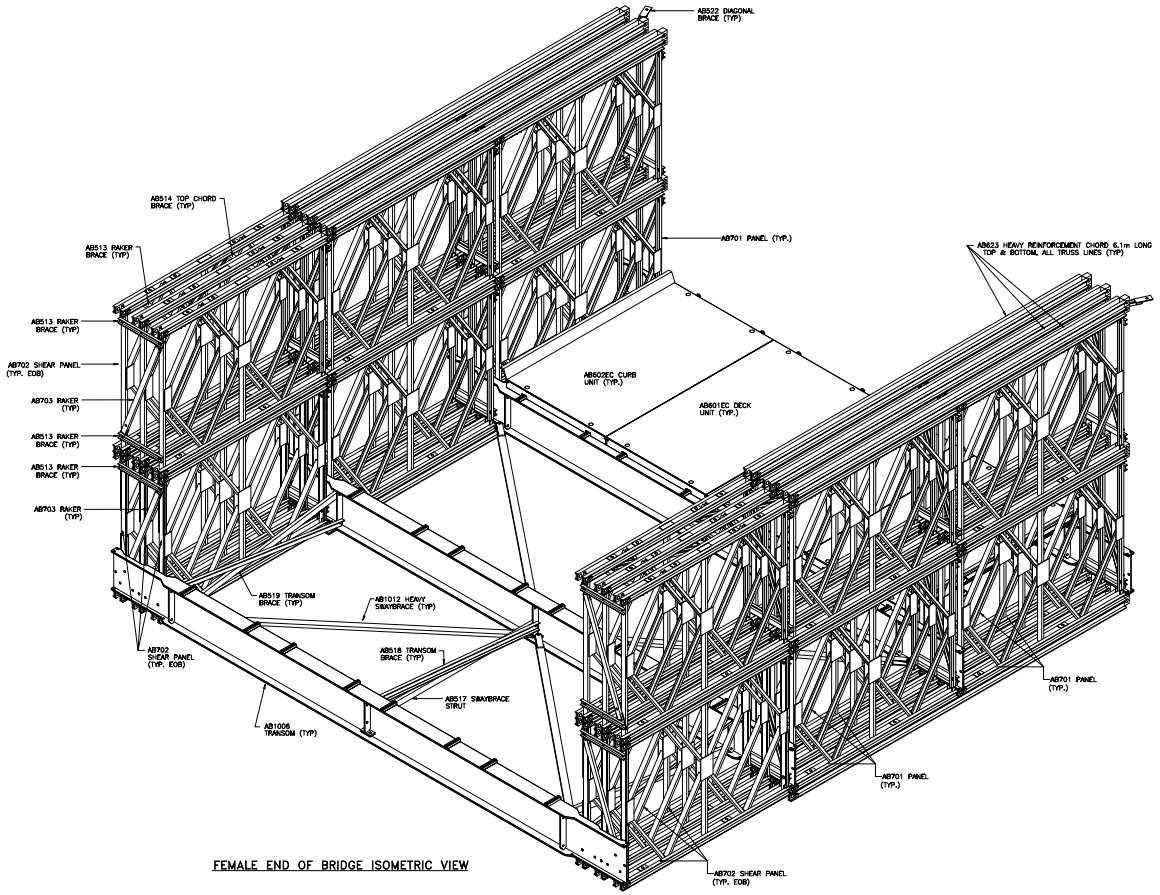

FEMALE END OF BRIDGE ISOMETRIC VIEW

Specifications

Bridge length:

54.86m (180′)

Roadway width:

7.35m (24′)

Deck surface:

Epoxy aggregate

Bridge erection method:

Full cantilever launch

Design load:

Euro Code, Italian Annex LM1 Loading

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

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