



Flood-Damaged Routes in Connecticut's Naugatuck Valley Reconnected with Modular Steel Bridges

Acrow structures support accelerated recovery efforts at five sites in two New Haven County towns

On August 18, 2024, a slow-moving weather pattern with multi-cell storm clusters created torrential rainfall across the Northeast. The southwestern Connecticut towns of Oxford and Southbury experienced catastrophic flash flooding, with rainfall totals reaching levels classified as a thousand-year event. The extreme weather caused widespread damage throughout the region, impacting homes, businesses, railways, roads, and bridges.

Five Acrow modular bridges, permanent and temporary, selected to reconnect the roadways as a top priority. Within two months, the first two temporary Acrow 700XS® structures were complete and opened to traffic. These rapidly installed, durable long-term solutions created detours on Route 67 near Community House Road in Southbury and Route 67 by Wyant Road in Oxford. Each two-lane temporary bridge is 80 feet (24.38m) long with a width of 30 feet (9.15m) and an asphalt overlay deck surface. The third temporary installation was completed soon after, reopening Route

34 near Loughlin Road in Oxford. This 700XS bridge has an epoxy aggregate deck surface and measures 90 feet (27.43m) long by 30 feet (9.15m) wide.

The permanent installations are at two locations in Oxford. The Acrow structure on Seth Den Road was opened to traffic in December 2024. It is a two-lane beam bridge measuring 35 feet (10.67m) long and 24 feet (7.35m) wide. The final Acrow bridge, a 700XS, 60 feet (18.29m) long and 24 feet (7.35m) wide, was installed on Oxford Park Road and opened in March 2025. Each bridge has an epoxy aggregate deck.

Acrow's premium bridging solutions are available for rent or purchase, and provide a cost-effective, reliable way to expedite post-emergency infrastructure recovery. Precision-engineered for rapid installation, components are held in stock for immediate delivery to the most challenging locations to support both permanent and temporary applications.



Temporary bridge 1: 80' (24.38m)
Temporary bridge 2: 80' (24.38m)
Temporary bridge 3: 90' (27.43m)
Permanent bridge 1: 35' (10.67m)
Permanent bridge 2: 60' (18.29m)

Temporary bridges: 30' (9.15m)
Permanent bridges: 24' (7.35m)

TL-4 or TL-2

Asphalt overlay or epoxy aggregate

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

- (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