



Acrow Bridges Provide Temporary Access During the Las Vegas Grand Prix

Three modular steel flyovers were a critical part of temporary race infrastructure

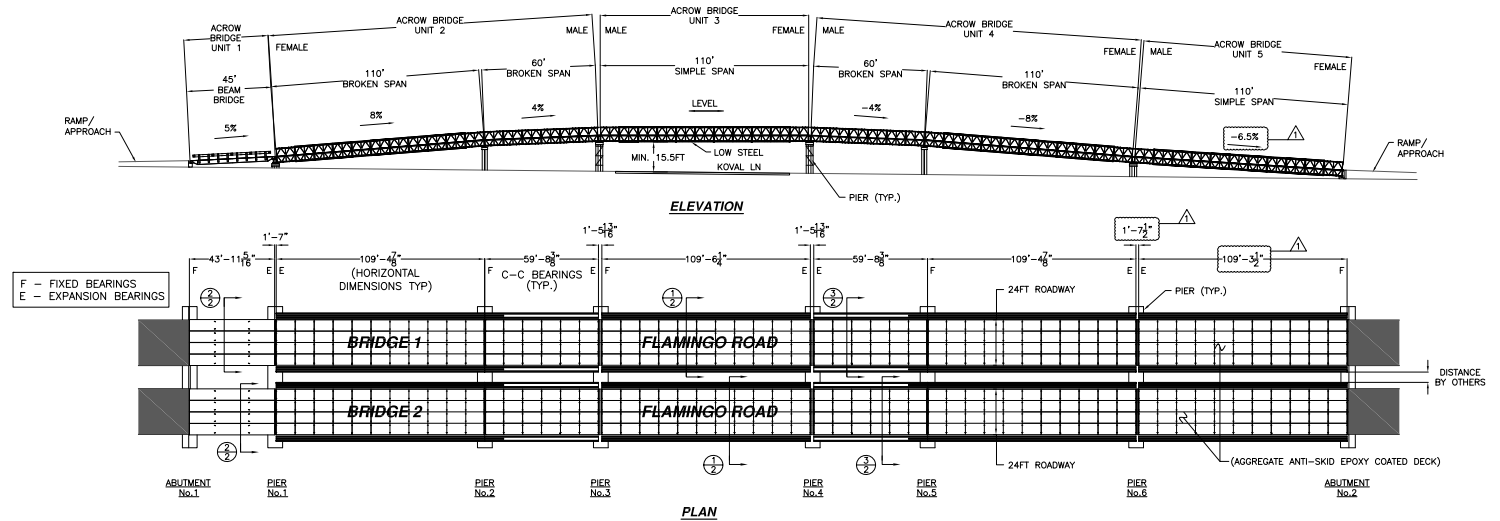
The Las Vegas Grand Prix, part of the Formula 1 World Championship, was added to the calendar for the 2023 season. The race is run on a temporary track circuit that includes parts of the iconic Las Vegas Strip, and transforming the densely populated area for the inaugural race posed numerous challenges. Among the concerns was a lack of overpasses to allow traffic, including emergency vehicles, to move freely over the track during race weekend. This led to the decision to install Acrow's modular bridges to serve as temporary flyovers at three key locations.

After four bridges were used successfully during the 2023 race, the structures were disassembled and the components placed in storage for future redeployment. In preparation for the 2024 event (November 21-23), for which three temporary bridges were required, the components were pre-assembled at a staging yard and then transported in sections to the three sites during overnight hours in early October. After final assembly at each location, the bridges were lifted in place by cranes

onto contractor-designed and supplied towers.

The three bridges, which were rented to W&W AFCO Steel totaled 1,940 linear feet (591.31m) and weighed approximately 2,162 tons. A 605-foot-long (184.40m) bridge was installed at the intersection of Koval Lane and Flamingo Road; a 620-foot-long (188.98m) bridge was installed at East Harmon Avenue and Audrie Street; and a 715-foot-long (217.93m) structure was installed at Top Golf and Koval Lane. Each two-lane bridge had a roadway width of 24 feet (7.35m) with an epoxy aggregate deck surface and was designed to AASHTO HL-93 loading to accommodate heavy emergency response vehicles.

Once the bridges were completed, they carried all traffic at the three locations until race weekend, at which time they were open only to first responders as well as employees and guests of resorts in the affected area. The bridges were removed shortly after the event and will remain warehoused until needed for the 2025 event.



Specifications

Bridge length:

Bridge 1: 605' (184.40m)
 Bridge 2: 620' (188.98m)
 Bridge 3: 715' (217.93m)

Roadway width:

24' (7.35m)

Guide rails:

TL-4

Deck surface:

Epoxy aggregate

Bridge erection method:

Crane lift-in

Design load:

HL-93

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