

Broadway Bridge – Little Rock, Arkansas

The new Broadway Bridge in Little Rock, Arkansas opened to traffic on March 2nd, 2017 one month ahead of schedule. WireCo WorldGroup supplied the hanger assemblies for the project to Kansas City based Massman Construction. This new span replaced aging infrastructure crossing the Arkansas River in downtown Little Rock. The project required the supply of 88 suspenders produced from 2-3/8" diameter ASTM A586 Structural Strand. Heavy Class C zinc coated wires were required for the corrosion resistance of the strand over the river. The deck connection socket was specifically designed for tensioning and adjustment on the deck during construction. All of the assemblies were fabricated and tested at the St. Joseph Fabrication Facility in 2016.



Photo 1 – Bridge Sections floated in place.

The new span consists of two network arches each with a span of 450 feet from pier to pier. The structures were fabricated offsite on falsework that was constructed on top of barges. The completed structures were then floated in place and secured on piers for the concrete work and final approach completion.

The design of the structure was created by Kansas City based firm HNTB. WireCo WorldGroup has worked with HNTB and Massman Construction on other successful structural projects throughout the US. The success of this project shows the WireCo commitment to our customers.

The photos below show the construction of the bridge on barges and WireCo products installed under minimal tension.



Photo – Bridges constructed on falsework.



Photo – Installed assemblies.