



Clockwise from Bottom Left
Assembled bridge at the assembly yard; A worker sprays BDM under a tent during the rainstorm on the morning of October 4th; Completed waterproofing detail showing the custom joint installation

AMTRAK UNION & WOOD STREET PROJECT

Middletown, PA



Sharply Skewed Angles
Joints with multiple skewed angles that all required waterproofing

In September and October of 2010, Island Pavement Cutting Co., Inc. installed approximately 9,200 square feet of Bridge Deck Membrane (BDM) and custom Articulus Expansion Joints on two bridges one quarter mile apart in Middletown, PA. The project consisted of replacing two historical bridges constructed in 1903 and 1904 by the Pennsylvania Railroad to eliminate grade crossings at Union Street and Wood Street.

Project Information
Project Number: NA
Owner: Amtrak
Project Size: 9,200 SF

The two bridges would be replaced during a planned 55 hour shutdown. Because of the limited window, much of the waterproofing installation was performed at an offsite assembly yard prior to the shutdown. At 4:00 AM on October 1, 2010 demolition of the

existing bridges began. By Sunday afternoon the new bridges were positioned and Island Pavement Cutting Co., Inc. began installation of the expansion joints and waterproofing tie-ins.



Joint Placement
A worker places an Articulus™ Expansion Joint into place

One of the unique challenges of these bridges were the sharply skewed piers, which required the expansion joints to be custom fit. Bridge Preservation was able to manufacture custom expansion joints to perfectly fit the various angles present on the bridges. The challenges continued Sunday night and Monday morning when it began to rain. Island Pavement Cutting was forced to erect tents over the bridges so that the waterproofing installation could continue. However, despite the challenges, the waterproofing installation was successful and the tracks were re-opened at 8:00 PM on October 4th.



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