

CASE STUDY



PROJECT DETAILS

Highway 82 Point Bluff Bridge Installation

Project Name:

Highway 82 Point Bluff Bridge

Location:

Mauston, WI

General Contractor:

Lunda Construction Co.

Product Manufacturer:

County Materials Corporation

Date:

2019

Key Products:

Sixty-six 72-inch-tall prestress girders, each 147 feet long and 148,000 lbs.

Solutions: Large-scale bridge project required precise delivery schedules to minimize impact on river levels and lane closures

As one of the Wisconsin Department of Transportation's infrastructure improvement projects, an aging steel truss bridge was replaced with a new prestressed concrete bridge on State Highway 82 over the Wisconsin River between Adams County and Juneau County, outside of Mauston, Wisconsin. While the age of the steel bridge was unknown, WisDOT determined that it was more cost-effective and timely to replace the Point Bluff Bridge with long-lasting prestress concrete than to continually invest in repairing the original structure.

Nearly 4,900 vehicles a day use the Point Bluff Bridge. The WisDOT hired Lunda Construction of Black River Falls, WI to construct the \$19 million bridge, south of the current one. This large 11-span prestress bridge project was manufactured and supplied by County Materials Corporation's Janesville, WI plant. A total of sixty-six 72-inch-tall prestress girders, each 147 feet long and 148,000 lbs., were delivered and installed.

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The project's contractor, Lunda Construction Company, dealt with several challenges on the project. One challenge was constructing the bridge over a river with limited access. To facilitate the installation, a temporary road was built to cross the river, which allowed the crane travel access for the duration of the project. Culverts installed by Lunda, under the temporary road, allowed the river to continue flowing. Highway 82 remained open during construction while workers used flagging operations to direct traffic across one lane, eliminating road closures.



Girder delivery and installation had to be precisely timed and coordinated to accommodate fluctuating river water levels that were impacted by rain events. County Materials' dispatch team and heavy haul truck drivers from both the Janesville, WI and Roberts, WI locations worked in tandem with the construction teams onsite to ensure effective communication and to meet project timelines. The bridge officially opened for traffic at the end of 2019.



“ Prestress bridge girders provided the support needed to reconstruct an aging steel truss bridge that spans between Adams County and Juneau County. ”

