

CASE STUDY



PROJECT DETAILS

Project Name:

Highway 101 Bridge

Location:

Chanhassen, MN

Products Used:

Prestressed Bridge Girders

Contractor:

Ames Construction

Ready-to-Install Bridge Girders Accelerate Schedule for Highway Reconstruction Project

Solutions: Prestressed girders provide superstructure for new bridge spanning Minnesota river floodplain

To resolve seasonal flooding that frequently stopped traffic on a causeway crossed by almost 20,000 vehicles daily between the towns of Shakopee and Chanhassen, the Minnesota Department of Transportation and regional partners decided to build a new bridge.

The bridge expanded the traffic capacity of the highway from two lanes to four and was built 24 feet above the adjacent flood plain—alleviating flooding and decreasing the environmental impact of the highway by allowing for one continuous and connected wetland area.

With wider driving lanes and a new protected pedestrian and cycling path, the new bridge increased safety for all users and connected existing recreational paths.

Prestressed girders manufactured by County Materials were an ideal solution for the superstructure of the 4,226 foot-long bridge. High-performing concrete girders are designed to withstand heavy use over a long service life. Low maintenance requirements and simple installation contribute to a reduced life cycle cost, helping transportation agencies maximize taxpayer value.

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County Materials manufactured 369 I-girders for the project, each spanning 102 feet long. The girders were installed in 41 spans, 9 girders per span.

To minimize the disturbance to the nearby heavily populated residential area, project leaders planned an aggressive construction schedule with crews working six days a week and late into the evening. With enhanced production capacity, County Materials was able to supply the girders with unmatched lead times and made deliveries at all times of the day, each day of the work week to help meet the project's accelerated timeline.



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