



## Project: Wisconsin DOT

*Bridge Rehabilitation*



Madison, Wisconsin  
2008



### Description of work

Like most concrete bridges around the country, the pier and pier caps are exposed to very harsh conditions, especially in the northern states. Wisconsin DOT, Southwest region, has an annual program of selecting 10-12 bridges to be repaired during the summer months. These structures suffer from deteriorated concrete with exposed reinforcing steel and sometimes exposed pre-stressing strands.



### Solution:

The regional engineer uses discretionary funds and awards a repair contract to CSI every year. The repairs consist of removing all loose concrete, applying a corrosion inhibitor, CIS 1 & 2, restoring the section using a concrete mortar and applying two layers of glass fiber composite over the repair areas.



### Summary:

The use of discretionary funds is a benefit to the owner: 1) the process gets done very quickly from the decision time to repair until the work is completed. In this case 24 days for 10 bridges; 2) the DOT administrative costs are low; 3) the DOT has only to supply traffic control with resources already on the payroll. CSI provides the balance of the support; and, 4) in the end, it is more economical than letting the work out to bid.

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