



DOWAKSA CarbonWrap®

CASE STUDY

SEVERAL BRIDGES
NORTHEASTERN UNITED STATES

REPAIRING HIGHWAY BRIDGE COLUMNS COST-EFFECTIVELY

Problem

Many bridges in the Northeastern United States suffer from severe damage due to corrosion of rebar in many parts of the structure including columns. Replacement of such a large inventory of damaged columns is not a practical solution. Furthermore, many conventional repair methods, such as patching with new concrete and welding rebars, have proven ineffective, time consuming, and costly.

Solution

DowAksa CarbonWrap® provided an effective and economical solution involving filling the spalled areas with high strength PolyCon500™, and wrapping the column with DowAksa CarbonWrap® fabric. The polymer-based PolyCon 500™ created a super strong bond with the old concrete, eliminating the possibility of failure at the cold joint. The high-strength DowAksa CarbonWrap® fabric made up for the lost steel area due to corrosion and protected the steel from future corrosion caused by deicing salts, through sealing of the core concrete and steel.



Phone: 520.292.3109

Toll Free: 866.380.1269

www.DowAksaUSA.com