



DOWAKSA CarbonWrap®

CASE STUDY

BAY AREA RAPID TRANSIT SYSTEM (BART)

SAN FRANCISCO, CALIFORNIA

SEISMIC RETROFITTING WITH LIMITED DISRUPTION

Problem

The Bay Area Rapid Transit System (BART) owns numerous bridges, tunnels and buildings in northern California. Many of these structures were designed before the new seismic design requirements were in place. Consequently, many of these structures are currently considered deficient with regard to seismic forces. DowAksa CarbonWrap® performed the first-ever application of this technology for BART.

Solution

DowAksa CarbonWrap® was used to strengthen the six-foot diameter, hexagonal columns at a fraction of the time and cost of other alternatives. The retrofit was aesthetically pleasing, with no alteration of the original architectural features.

Furthermore, the light weight of DowAksa CarbonWrap® did not increase the column mass, resulting in significantly improved seismic performance compared to conventional technologies.



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