

JFK BRIDGE REHABILITATION OVER RISLEY CHANNEL

Atlantic County, New Jersey

OVERVIEW

In 2014, Fibrwrap Construction completed the strengthening and rehabilitation of the JFK Bridge over Risley Channel in Atlantic County, New Jersey. The Bridge connects Somers Point to Longport, New Jersey and is a heavily trafficked route in and out of Atlantic City, maintained by New Jersey DOT.

The 25 span bridge consists of seven AASHTO girders per span with varying degrees of concrete spalling at each girder. In some cases, the concrete spalling was so great that the prestressing strands had substantial corrosion and the full capacity could no longer be relied upon. New Jersey DOT explored several options for the repair of these girders and settled on utilizing the light-weight, high strength carbon fabric to supplement this lost steel capacity and to encase the girders.

The number of layers required to supplement the flexural capacity lost by the corroded steel varied per location. Beyond this, one layer U-wraps were installed to provide a protective membrane to the AASHTO girders at each repaired location. At the end of the project, the use of fiberwrap materials was noted as a large cost-savings to the owner that allowed the bridge to remain in service during repairs and immediately increased the bridge's lifespan.



Fibrap application to underside of bridge



Fibrap application to underside of bridge



Floating access to underside of bridge



Concrete spalling and corrosion