

The New New York Bridge (Tappan Zee Bridge)

New York, NY

Project Description

Construction of the \$3.9 billion replacement of the aging Tappan Zee Bridge started in January 2013 and is scheduled to be completed in April 2018. The 3 mile long crossing of the Hudson River, located 25 miles North of Manhattan, consists of a signature cable stay with a main span of 1,200' and 350' plate girder approach spans with a precast deck system.

Owner

New York State Department of Transportation, New York State Thruway Authority

Contractor

Tappan Zee Constructors: A Joint Venture of Fluor, American Bridge, Granite Traylor

Designer

HDR, Buckland Taylor, URS, and GZA

Our Role

McNary Bergeron is providing construction engineering services to support the JV with complex portions of erection of the new bridge and demolition of the existing bridge. This includes development and design of the erection plan and equipment to incrementally launch the steel plate girders on the east shore. Other tasks include girder erection plans with limited crane access, temporary works design, lifting and handling equipment design for precast deck panels, existing bridge removal plans, and peer reviews for major temporary works plans including the underwater precast form system for footing construction. Photo Credits: New York State Thruway Authority

Total Contract Value

\$3.9 Billion

Timeline

2013 - 2018

Construction Method and Specifications

While most of the new bridge's steel-blue girder assemblies are being placed across the Hudson River with the barge-based I Lift NY super crane, the location from the Westchester landing to the first pier in the river is inaccessible to the monumental machine. An innovative yet simple alternative method is being used to install the girders in this area, as detailed in this video.

