



# GOETHALS BRIDGE REPLACEMENT

ELIZABETH, NJ & STATEN ISLAND, NY

## SDI Scope

*Supply Post-Tensioning Material, Equipment, and Technical Assistance*

## Contractor

*Kiewit – Weeks – Massman, AJV*

## Owner

*Port Authority of New York and New Jersey*



## PROJECT DESCRIPTION

The Goethals Bridge, constructed in 1928, connects Elizabeth, New Jersey to Staten Island, New York. The bridge needs extensive repairs (costing hundreds of millions) to maintain it in obsolescence, given modern demands for increased capacity.

Thus, a new cable-stay bridge will be constructed just south of the original Goethals Bridge, offering 6, 12-foot-wide lanes (replacing the four narrow existing lanes). The new construction will also include a 12-foot-wide outer shoulder and 5-foot-wide inner shoulder in each direction as well as a 10-foot-wide sidewalk/bikeway. These new features will significantly improve traffic flow and safety. Upon completion of the replacement bridge, the original bridge will be demolished.



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## SDI'S SCOPE OF WORK

SDI will furnish complete post-tensioning materials and hardware for the Eastbound and Westbound Main Bridge Tower Struts, Main Bridge Deck, and Main Bridge Edge Girders. The SDI systems utilized on this project are the SDI 4.6A-PC Anchorage Systems, the SDI 22.6-PC Anchorage System, and the SDI 1.38" High Strength Bar system.



## PROJECT HIGHLIGHTS AND FACTS

The Replacement bridge will incorporate smart bridge technology, including Roadway Weather Information Systems and a Traffic Detection System. These systems will collect environmental data such as wind speed, visibility, and pavement temperature. Additionally, it can provide traffic alerts allowing emergency services to quickly plan a response for any incident.



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