AI Engineers, Inc.

An Integrated Approach to Infrastructure Solutions

NYSDOT Biennial Inspection of East River Bridges

New York, NY

Location
New York, NY

Owner
NYSDOT

Duration
1999 - 2010

Project Description:

Since 1999 to present, AI Engineers, Inc. (AI), as a subconsultant to other firms, has provided 1-2 teams to perform biennial inspection of some of New York City's world famous and historical bridges that span the East River.

These are all very complex bridges and the list includes:

Manhattan Bridge, a suspension bridge (2000, 2004, 2006, 2008). This bridge carries 6 vehicular lanes and two tracks across the East River with a main span of 1,470 ft. The four main cables span a total length of 3,994 ft. each. Performed inspection of main spans, anchorage towers, cable anchorages, eye bars, approach spans and framing for the rail track.

Williamsburg Bridge, a suspension bridge with a 1,600 ft. main span (2002, 2004, 2006). This cable suspended bridge has a main span of 1,600 ft. and is flanked by approach span on the Brooklyn and Manhattan sides having a total structure length of 7,308 ft. AI teams inspected the main span, cable anchorages spans and most of the approach spans for the bridge including bearing towers and trusses of the approach spans.

Brooklyn Bridge, a two level suspension bridge with a 1,595 ft., main span (2002, 2004, 2006). The bridge carries 4 lanes of traffic. The work performed included inspection of main and approach spans, main cables, cable suspenders and framing, anchorages, top of deck and a pedestrian walkway.

Queensboro Bridge, a multi-level truss over a mile long (2004). AI teams inspected this multi-lane structure which carries over 100,000 ADT.

The inspection results are reported in NYSDOT's BIPPI database system.

Salient Features

- Perform NBIS Inspection
- 135 feet reach Man Lifts
- Structure climbing and rigging
- BIPPI Inspection Reports
- Structure Inventory and Appraisal