AI Engineers, Inc.

An Integrated Approach to Infrastructure Solutions

ConnDOT Complex Bridge Inspection & Structure Evaluation

Statewide, CT

Location
CT

Owner
Tom Harley
ConnDOT
2800 Berlin Turnpike
Newington, CT 06111
860-594-3189

Duration
2002 – 2005
2006 – 2009

Project Description:

The Connecticut Department of Transportation selected our firm in 2002 (331 Bridges) and again in 2006 (441 Bridges) for NBIS Biennial Bridge Inspection contracts. The projects involved inspection of highway and town bridges – above and underwater inspection. The bridges included: Class I, Class II and Class III moderately complex and complex bridges. Field work included: scheduling of lane closures, flaggers and troopers, providing MOT, utilizing specialized equipment for access and performing in-depth, semi-final, fracture critical or special inspections.

In 2008, subsequent to the Minneapolis deck truss type bridge collapse, AI was called to inspect two of the four Connecticut State deck trusses (with non-redundant members). These two bridges were the Commodore Hull Bridge in Shelton and Route 7 over the Housatonic River in Salisbury.

Tools and equipment used for these projects include bucket trucks, MOT, torque wrenches, D-meters, dye penetrant test kit, etc. The software for design analysis is provided by the Connecticut Department of Transportation.

Inspection reports are submitted within 21 days of inspection completion date. The report includes an Executive Summary, and structure inventory and appraisal sheet, DOT Bridge Inspection (BRI) forms; Maintenance Memoranda if needed; Load Rating for certain bridges and electronic photos. Maintenance and flagging memoranda are issued based on condition or degree of deterioration and the need for timely maintenance and repair.

Salient Features

- Bridge Condition Inspection
- Inventory
- Load Rating
- NBIS Guidelines
- Special Access Equipment

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ConnDOT Complex Bridge Inspection & Structure Evaluation Cont.
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Project Description:

We have on-site supervisory level OSHA certified personnel who periodically monitor safety compliance during field operations. The project team consists of experienced bridge/structural engineers who also perform maintenance and protection of traffic, with bridge inspection.