

RIDOT Load Rating & Bridge Inspection

Statewide, RI

Project Description:

Location

Statewide, RI

Owner

RIDOT

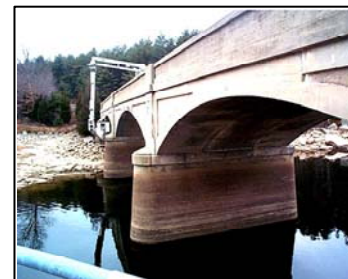
Duration

2005-Present

AI Engineers, Inc. is a prime consultant for the Rhode Island DOT to perform NBIS highway bridge inspection and evaluation statewide. This is a five year contract performed one assignment at a time; we are currently completing the fifteenth inspection assignment for a total of over 350 bridges of all types, sizes and complexities. This work started out as an inventory inspection for each structure to produce baseline inspection reports to be used for future inspections. Currently, AI is also performing bridge load rating analysis and has completed a total of 38 structures including 7 gusset plates.

Load Rating assignments on this contract have included structures ranging from the simple single spans and culverts to complex deck trusses and multi-span arches. Shortly after the collapse of the deck truss in Minnesota, the Department directed us to perform emergency inspections for some of their large trusses with special emphasis on connection and gusset plates. We performed the inspections and proceeded to analyze and load rate the bridges and the gusset plates.

When a bridge has no plans, we perform a detailed inspection where we measure and record all member sizes and extent and location of any section losses. On occasion we have engaged the services of testing firm to identify sizes and location of reinforcing and prestressing tendons in concrete members as well as determine concrete strength.



Salient Features

- Biennial Bridge Inspection per NBIS guidelines
- Fracture Critical Inspection per NBIS guidelines
- Special Inspection per NBIS guidelines
- QA/QC
- Pontis Database Condition Ratings & Reporting (Bridge Management System)
- Bridge Load Ratings
- Structure and Safety Flag
- MPT