

Project Title:           **C-08-13 : Effects of Overweight Vehicles on NYSDOT's Infrastructure**

PIN:                       R021.36.881

Responsible Unit:     Office of Structures - Bridge Evaluation Services Bureau

Project Manager:     Lagace, Scott

**Project Goal:**

NYSDOT issues over 50,000 overweight permits a year, including both Divisible Load and Special Hauling. Allowing overweight vehicles provides economical benefits to the hauling industry. However, these vehicles can cause additional wear and tear on NYSDOT's infrastructure and may have negative effect on bridge service life and maintenance and capital costs.

The Project should:

- a) Quantify the effects and associated cost to NYSDOT's bridge network due to overweight permitted vehicles
- b) Quantify the effects and associated costs due to those operating in violation of the permit system, and
- c) Quantify the cost of overweight superload moves.

**Actions Proposed:**

- 1. Review available literature
- 2. Review NYSDOT's Divisible Load permit database.
- 3. Review NYSDOT's Office of Structures permit review database.
- 4. Review NYSDOT's weigh in motion (WIM) data and NYSDOT's violation data to estimate non-compliance quantities.
- 5. Meet with appropriate Department technical personnel and managers to collect their expert opinions.
- 6. Quantify the effects and associated bridge costs using the methodology presented in NCHRP Report 495 "Effect of Truck Weight on Bridge Network Costs."
- 7. Propose alternative cost analyses, other than that described in the NCHRP Report 495, if applicable and simple to use.

**Anticipated Work Products and Accomplishments:**

- 1. A report documenting the effects of overweight permits on the NYSDOT bridge network.
- 2. The report should include estimated costs based on 100% permit compliance, additional breakout for superload moves, and the cost of real weights including permit violation based

**Proposed Budget:**                       \$300,000