

Title: Evaluation of Load Characteristics of I-89 Bridges 58 N&S, Richmond

SPR No: 721

Project Description: The objective of this research initiative is to instrument bridge number 58 (south) on Interstate 89 in the town of Richmond, in an effort to determine its load bearing capabilities. Currently AASHTO distribution factors are used to determine load ratings on the bridges, which lead to possibly conservative estimates, thus restricting some overweight load passage. Accurate determination of the load bearing characteristics would allow for as-tested values to be used in lieu of the AASHTO distribution factors and therefore lead to a truer load rating. In addition, due to questions pertaining to the original design plans it is currently unknown what grade of steel was used in the stringers; a separate concurrent project will be undertaken to determine this accurately.

Start date: 2011

End date: 2012

Status: ☒ Active ☐ Inactive ☐ Completed

Total Dollars: \$80,000

Index Terms: ☐ Administration ☒ Bridges ☐ Construction ☐ Environment
☐ Geotechnical ☒ Maintenance ☒ Materials ☐ Pavements ☐ Safety ☐ Traffic ☐ Transit

Sponsor Organization

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Subjects: Load Bearing Characteristics, Bridge Load Ratings, Instrumentation