

## Research Project Description Form

Project Number: 212146

Project Title: Weathering Steel Sign Structures Condition Assessment – Phase I

### Primary Investigator Contact Information:

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### External Project Contact:

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### Project Objective:

The primary objective of the project is to develop a system that will assist the West Virginia Department of Highways in their efforts to manage the weathering steel sign structures inventory within the state.

### Abstract:

Rational decision-making and prioritization regarding the maintenance and replacement of various Weathering Steel sign structures may be executed objectively only when a representative framework is developed. As such, this project aims to assist the WVDOH in the management of the Weathering Steel sign structures inventory through appropriate inspection and evaluation of their current condition.

### Task Descriptions:

Task 1: Conducting an extensive literature review to determine findings of other State DOTs

Task 2: Developing a draft inventory and inspection form

Task 3: Refining and finalizing Phase I field inspection form and its accompanying instructions and developing a plan for field inspections

Task 4: Conducting field inspection to collect pertinent Weathering Steel sign structure information

Task 5: Compiling a comprehensive electronic inspection inventory that includes a report for each sign structures

Task 6: Preparing a final report

Task 7: Developing a "Request For Proposals" (RFP) for conducting future inspection

Task 8: Planning for Phase II and submission of Phase II Proposal

Milestones, Dates, Schedule: 12 month project schedule

Yearly and Total Budget: Total: \$ 355,719.00

Student Involvement: Graduate and undergraduate students will be utilized to assist with the research and field components of the project.

Relationship to Other Research Projects:

Technology Transfer Activities:

Potential Benefits of this Project:

TRB Keywords: Highways, weathering steel sign structures