

PROJECT OVERVIEW REPORT

1. UTC Identifying Number
69A3551847102
2. Center Identifying Number
CAIT-UTC-REG 19
3. Project Title
Improving Transportation Infrastructure Resilience against Hurricanes, other
Natural Disasters, and Weathering: Part III
4. Principal Investigator & Contact Information
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5. Rutgers/CAIT Project Manager
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7. Project Description
The primary goal of this proposal is to analyze motor vehicle bridges that were damaged or collapsed during Hurricane Maria. The specific objectives of the project are: (a) develop an inventory of bridges that experienced damages or collapsed, (b) determine the causes of failure, (c) suggest improvements to the design and construction to avoid or reduce the risk of damages in future hurricane events.
8. Implementation of Research Outcomes (or why not implemented)
The intended outcome of the project is to raise awareness of potential issues related to the design, construction and maintenance procedures of motor vehicle bridges in Puerto Rico. It is expected that PRDOT and FHWA-PR will take measures to protect the structural elements of motor vehicle bridges from impacts associated to extreme weather events.

9. Impacts/Benefits of Implementation (actual, not anticipated)
To Be Determined

10. Dates and Budget

Start date: 10/1/2018

End date: 9/30/2020

UTC (CAIT) Dollars: \$35,342

Cost Sharing: \$34,565

Total Dollars: \$69,907

11. Keywords

Highway bridges, wind-borne debris impact, hurricane damage, transportation infrastructure damages, infrastructure life expectancy, flooding impact, flood-induced scour

12. Web Links (Reports and Project Website)

<https://cait.rutgers.edu/research/improving-transportation-infrastructure-resilience-against-hurricanes-other-natural-disasters-and-weathering-part-iii/>