TIDC Transportation Infrastructure Durability Center AT THE UNIVERSITY OF MAINE

UTC Project Information – Project 3.4	
Project Title	Testing, Monitoring and Analysis of FRP Girder Bridge with Concrete Deck
University	University of Maine
Principal Investigator	W. Davids, Ph.D.
PI Contact Information	william.davids@maine.edu; 207.581.2116 105A Boardman Hall, University of Maine Orono, Maine 04469-5711
Co-PI	Habib Dagher, Ph.D.
Co-PI Contact Information	hd@maine.edu, 207.581.2138
Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT: $52,119; UMaine: $109,355
Total Project Cost	$161,474
Agency ID or Contract Number	69A3551847101
Start and End Dates	3/1/2019 – 5/01/2021
Brief Description of Research Project	Based on successful testing and supporting research conducted by UMaine on a new, hybrid FRP-concrete girder, a demonstration bridge using this technology in Hampden, Maine will be constructed in the 2020. This bridge has been designed in partnership with Advanced Infrastructure Technologies of Orono, Maine. Our prior experience indicates that first-time construction of a new bridge technology invariably brings to light construction challenges and highlights unanticipated design challenges. This project provides a one-time opportunity to monitor and assess performance of a novel in-service composite bridge. Data gathered from the testing, monitoring and advanced analyses proposed as part of this research will help drive acceptance of this novel FRP girder bridge system.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	This project is in its initial research phase. Implementation of Research outcomes will be reported upon completion of initial research.
Impacts/Benefits of Implementation (actual, not anticipated)	This project is in its initial research phase. Impacts and benefits of the research will be reported after the implementation phase.
Web Links • Reports • Project website	N/A