UTC Project Information	
Project Title	MPC-580 – Implementation of Precast Concrete Segments for Electrified Roadway
University	Utah State University
Principal Investigator	Marvin W. Halling, PhD, PE, SE, F.ASCE
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Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT, Research and Innovative Technology Administration $66,500 Utah State University $66,500
Total Project Cost	$133,000
Agency ID or Contract Number	69A3551747108
Start and End Dates	October 19, 2018 to July 31, 2022
Brief Description of Research Project	A major impediment to broad public acceptance of electric vehicles is their limited travel range. An exciting potential solution to this problem is In-Motion Electric Wireless Power Transfer. This is essential for the development of connected and autonomous vehicles. Durability of the Civil-Electrical Infrastructure has been studied in recent research. The next logical step toward adoption is integration in a successful demonstration project. In order for the future adoption of this technology, roadways will need to be modified to allow the transmission of power to vehicles as they travel. Successful adoption of In-Motion Wireless Power Transfer will require advances in the efficiency of the overall electrical system, improvements in tracking of the actual vehicles, and significant developments in the civil infrastructure. This proposal will address the constructability of coils in a proposed precast system. The stringent electrical specifications will be monitored while utilized in an actual closed loop working system.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	

Web Links • Reports • Project Website	