

UTC Project Information	
Project Title	MPC-700 – Numerical Analysis of ABC Hybrid Bridge Bents Constructed with Hybrid Reinforcement
University	University of Utah
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Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT, Office of the Assistant Secretary for Research and Technology \$59,513 Corebrace, LLC \$60,000
Total Project Cost	\$119,513
Agency ID or Contract Number	69A3551747108
Start and End Dates	October 13, 2022 to July 31, 2023
Brief Description of Research Project	The proposed research will evaluate the performance of alternate bridge column-to-footing joints constructed with ABC methods under cyclic loads simulating earthquakes. The research will be performed by comparing the analytical results to experiments of prototype hybrid bridge bents with columns constructed using ABC methods with various details in terms of reinforcement (mild steel, GFRP bars, PT steel bars). Analytical models will be developed for implementing these systems using OpenSees . The methods of analysis will include quasi-static cyclic analysis and nonlinear dynamic analysis under scaled earthquakes.
Describe Implementation of Research Outcomes (or why not implemented)	
Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links <ul style="list-style-type: none"> • Reports • Project Website 	