



ACCELERATED BRIDGE CONSTRUCTION
UNIVERSITY TRANSPORTATION CENTER

UTC Project Information	
Project Title	Performance Comparison of In-Service, Full-Depth Precast Concrete Deck Panels to Cast-in-Place Decks
University	FIU
Principal Investigator	Garber, David
PI Contact Information	dgarber@fiu.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	ABC-UTC Funds: \$52,571 FIU Match Funding: \$26,285
Total Project Cost	Total Funds: \$78,856
Agency ID or Contract Number	Accelerated Bridge Construction University Transportation Center (ABC-UTC) DTRT13-G-UTC41; 69A3551747121
Start and End Dates	06/01/2017–05/31/2019
Brief Description of Research Project	Full-depth, precast concrete deck panels have been heavily used in bridge construction since the 1970's. The use of these panels has traditionally been thought to both accelerate construction and improve the long-term durability performance of the bridge deck. While many engineers and academia are intrinsically aware that confined precast can perform equally or better than nonconfined, cast-in-place concrete, evaluation between the two has never been studied holistically. The main objective of this project was to determine the in-service performance of full-depth, precast concrete (FDPC) deck panels compared to conventional cast-in-place (CIP) decks. The secondary objective is to determine successful and problematic details for these members. A survey was developed and distributed to state DOTs. Survey responses were used to develop the FDPC Deck Panel Database. Results from the DOT survey and analysis of the FDPC Deck Panel Database are discussed in this report.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	The outcomes will be tracked and reported once they are identified.

Impacts/Benefits of Implementation (actual, not anticipated)	The impacts will be tracked and reported once they are identified.
Web Links <ul style="list-style-type: none">• Reports• Project website	https://abc-utc.fiu.edu/research-projects/fiu-research-projects/performance-comparison-service-full-depth-precast-concrete-deck-panels-cast-place-decks/