

Optimized Shear Stud Spacing for Precast Deck Panel Construction

Description

Meta Fields

Category : Ongoing Projects

Group : Decks

Subject : Shear Studs for Panels

Abstract :

This project will collect data to justify modification to the American Association of State Highway and Transportation Officials Load and Resistance Factor Design Bridge Design Specifications in terms of steel composite construction. Specifically, increasing the shear stud spacing beyond 24 inches will be explored. This project will also evaluate if the existing static and fatigue design provisions are adequate. The project will static test composite beams with shear stud spacings of 24, 36, and 48 inches, as well as fatigue test 3 replicates at each of those spacings.

Key Words :

composite,construction,Infrastructure,Research studs,Fatigue,Steel bridges, Bridge construction,Superstructures

Budget : 0.00

Project Length : 43

Primary Sponsor Contact Info : Federal Highway Administration (FHWA) Office of Infrastructure Research and Development

Project Starting Year : 2011

Project Completion Year : 2015