

RP 265 – Effectiveness of High Early Strength Concrete Class 50AF with Polypropylene Fibers as a Cost-Effective Alternative for Field-Cast Connections of Precast Elements in Accelerated Bridge Construction

- Project Description:
This project will assess the performance of an ITD-developed High Early Strength Concrete with Polypropylene fibers to determine if it is a viable alternative to commercially available Ultra High Performance Concrete (UHPC) for use in Accelerated Bridge Construction (ABC) projects.

- Project Objectives:
The objectives of this project are:
 1. Obtain data on the behavior of high early strength concrete Class 50AF with polypropylene fibers for possible use as a closure pour material between Deck Bulb-T Girder.
 2. Use the experimental results to create a computer model of the proposed closure pour detail that (a) is capable of assessing the connection **strength** under one-time truck load; and (b) can provide an indication of fatigue performance under repeated loading.

- Estimated Completion Date: July 31, 2018
- Budget: \$63,780.00
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