

RP 288 – Long-term Performance of HES Class 50AF Concrete with Polypropylene Fibers as Field-Cast Connection between Deck Bulb-T Girders in SH-36 Bridge over Bear River

○ Project Description:

This proposed project is the third phase of a larger project that is investigating suitability of High-Early Strength (HES) concrete Class 50AF with polypropylene fibers as an alternative to Ultra High Performance Concrete (UHPC) in closure pours between bridge Deck Bulb-T Girders. The first phase comprised laboratory work, while in the second phase, the field performance of the material was investigated under the known Under the Bridge Inspection Truck (UBIT) loading and the regular traffic loading. In the third phase, the long-term performance of the connection will be investigated.

○ Project Objective:

The objectives of this project include:

- Determine the long-term field performance of the HES concrete with polypropylene fibers in closure pour connections between Deck Bulb-T girders.

○ Estimated Completion Date: April 30, 2022

○ Budget: \$35,000

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