

IOWA HIGHWAY RESEARCH BOARD (IHRB)

Minutes of March 25, 2022

Regular Members Present

J. Hauber
D. Skogerboe
J. DeVries
C. Burke
R. Knoche
A. Bradley
D. Sanders
W. Weiss
T. Roll
J. Fantz
W. Rabenberg
M. Rydl
A. McGuire - Chair
A. Bardgett

Alternate Members Present

M. Cox

Members with No Representation

Executive Secretary

V. Goetz

The meeting was opened on March 25, 2022, at 9:00 a.m. by Chair Andrew McGuire with an initial number of 13 voting members/alternates.

AGENDA

1. Agenda review/modification

2. Minutes Approval from the February 25, 2022, meeting

Motion to Approve by D. Sanders 2nd by R. Knoche
Motion carried with 13, 0, 0

Member joined

3. TR-811 Proposal, “*Updates to Short Span Prefabricated Bridge County Standards*”, Phil Rossbach, \$150,449, (15 min).

Motion to Approve by R. Knoche 2nd by A. Bradley
Motion carried with 14, 0, 0

Discussion

Q. If we allow the use of traditional reinforcing bars on the top flanges of the box beam, do you see any problem allowing the pre stressors to continue that practice and put in a low-tension force on to the top flange of that steel to allow them to safely and easily construct the steel tied all together using prestressing strands for the upper steel substitution?

A. The substitution that we have designed for the 50-foot span does maintain those prestressing strands in the upper corners, they are not fully prestressing strands, they are stressed at 5,000 pounds. The upper corners would still have the prestressing strands, at a much lower load.

4. TR-812 Proposal, “Development of County Bridge Standards for Single Short Span Cast-in-Place (CIP) Slab Bridges”, Fouad K. Daoud, \$36,546, (15 min)

Motion to Approve by W. Weiss 2nd by W. Rabenberg
Motion carried with 14, 0, 0

Discussion:

Thanks everyone for supporting the CIP short slabs. Dubuque County has built over half a dozen of these bridges, and they are a very economical bridge. Dubuque's local contractors love them.

5. Final Report TR-776, “Concrete Box Culvert Earth Pressure Monitoring”, Brent Phares, \$134,890, (15min).

Motion to Approve by D. R. Knoche 2nd by D. Sanders
Motion carried with 13, 0, 1

Discussion

Q. How would these results extend to other types of walls, retaining walls, these types of systems. Should we be examining other wall systems that we are using, to see what the demand is?

A. It probably does extend to walls, but I don't have a real strong opinion about this.

Q. Can you be sure that all curing has taken place at the time of instillation?

A. These are pre cased boxes, they are cured long before they are instrumented.

6. Final Report TR-770, “Development of Quality Standards for Inclusion of High Recycled Asphalt Pavement Content in Asphalt Mixtures – Phase IV”, David Lee, University of Iowa, \$247,480, (15 min).

Motion to Approve by A. Bradley 2nd by R. Knoche
Motion carried with 14, 0, 0

****member left ****

7. Interim Report TR-772, “Performance Evaluation of Polyester Polymer Concrete Overlays”, Mohamed Elbatanouny, Wiss, Janney, Elistner Associates, Inc., \$249,820, (15min).

Motion to Approve by D. R. Knoche 2nd by J. Hauber
Motion carried with 14, 0, 0

8. New business

- a. Granular road bases and unpaved road materials testing and training facility.

Motion to Approve pursuing IHRB involvement in the exploration of a new unpaved/granular roads research facility by R. Knoche 2nd by D. Sanders

Motion carried with 14, 0, 0

The April IHRB meeting was cancelled. The next regular meeting of the Iowa Highway Research Board is scheduled for May 20, 2022.

VG