

To: Iowa Highway Research Board

Date: January 20, 2021

Attention: Regular and Alternate Members  
From: Vanessa Goetz  
Office: Research and Analytics

The Iowa Highway Research Board will meet **on Friday January 29, 2021 at 9:00 a.m. Online via Microsoft Teams Meeting. Please contact [Vanessa.Goetz@iowadot.us](mailto:Vanessa.Goetz@iowadot.us) by 4 p.m. Thursday January 28, 2021 if you would like to attend the meeting online.**

#### AGENDA

1. Agenda review/modification
2. Minutes Approval from the September 25, 2020 meeting
3. Iowa LTAP – 2020 Overview and 2021 Planning, Keith Knapp, Iowa State University (15 min)
4. Final: TR-735, *“Holding Strategies for Low-Volume State Routes – Phase II”*, Chris Williams, Iowa State University, \$100,642 (15 Min)
5. Final: TR-768, *“Design and Detailing Requirements for Columns under Collision”*, Alice Alipour, Iowa State University, \$100,000 (15 Min)
6. Proposal, *“Superabsorbent Polymers In Concrete to Improve Durability”*, Peter Taylor, Iowa State University (15 min), \$49,915.50, (\$49,915.50 SPR funded)
7. Proposal, *“Iowa Public Works Service Bureau”*, Paul Wiegand, Iowa State University (15 min), \$480,000
8. Proposal, *“Next Generation Life-Cycle Cost Analysis Tool for Bridges in Iowa - Phase II”*, Alice Alipour, Iowa State University (15 minutes), \$150,000
9. RFP Review, *“IHRB-3216 - Iowa Granular Road Structural Design Tool”*
10. IHRB Next Phase Project Ranking
  - a. [A Decision-Matrix Tool for Culvert Grade Control Selection \(#3044\)](#)
  - b. [Assessment of Epoxy Overlays in Iowa \(#3048\)](#)
  - c. [Development of Effective ABC Methods for Pile-Footing-Column Systems \(#3055\)](#)

- d. [Development of Effective ABC Methods for Bridge Abutment Design and Construction \(#3058\)](#)
- e. [Beam End Repair for Prestressed Concrete Beams - Field Implementation \(#3059\)](#)
- f. [Implementing AG industry technology for tiling granular roads in Iowa \(#3062\)](#)
- g. [Field Performance of Fiber-Reinforced Concrete Overlays \(#3067\)](#)
- h. [Gradation Optimization for Improved Performance of Granular Surfaced Roadways \(#3070\)](#)
- i. [Design of self-cleaning solutions for mitigating sedimentation at twin and single-box culverts \(#3071\)](#)
- j. [Automated Plate Load Test Evaluation of Long-term Performance of Pavement Foundation Systems \(#3206\)](#)

**11. New business**

**12. Meeting Adjourn**

The next regular meeting of the Iowa Highway Research Board is scheduled for February 26, 2021 Online via Microsoft Teams Meeting.