## TECHNICAL REPORT TITLE PAGE

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3. TITLE AND SUBTITLE  
   Improved Aggregate Gradation for Portland Cement Concrete Mixes

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7. ACKNOWLEDGEMENT OF COOPERATING ORGANIZATIONS

8. ABSTRACT

   Improving the aggregate gradation for a portland cement concrete mix may result in higher compressive strengths. With an improved gradation, the cement factor may be reduced to achieve a more economical concrete mix since cement is the most expensive component in a portland cement concrete mix. This project located on I-80 westbound in Scott County, Iowa examined three different mixes.

   1. Standard Class C mix with project aggregates.
   2. Standard Class C mix with an improved aggregate gradation.
   3. Standard Class C mix with an improved aggregate gradation and 10% cementitious reduction.

9. KEY WORDS

   Portland cement concrete  
   Gradation

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