

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: Design and Construction Guidelines for Thermally Insulated Concrete Pavements

OBJECTIVES:

The main objective of the proposed research is to develop design and construction guidelines for thermally insulated concrete pavements (TICP), i.e. composite thin HMA overlays of new or structurally sound existing PCC pavements. A secondary objective is to develop recommendations for feasibility analysis of newly constructed TICP or thin overlays of the existing concrete pavements.

PERIOD COVERED: October - December, 2007 (4th Quarter)

PARTICIPATING AGENCIES: Minnesota Department Of Transportation, Caltrans, Federal Highway Administration, Local Road Research Board, Washington State Department of Transportation

PROJECT MANAGER:

Tim Clyne

SP&R PROJECT NO:

TPF 5(149)

PROJECT IS:

_____ Planning
 Research & Development

LEAD AGENCY:

Minnesota Dept. of Transportation

PRINCIPAL INVESTIGATOR:

pending

ANNUAL BUDGET:

The total project budget is \$455,000. Of that \$16,000 is reserved for pooled fund administrative costs, which leaves \$439,000 available for research.

Detailed expenditures will be available next quarter.

PROJECT EXPENDITURES TO DATE: Travel Costs for designated state representative for the September 12 TAP meeting (3rd Quarter 2007) held in Minnesota: \$1636.

WORK COMPLETED:

The workplan from the University of Minnesota and their two subcontractors (University of California Pavement Research Center and University of Washington) was submitted and approved by the TAP. The contract award to the University of Minnesota is still in progress and should be completed in the 1st Quarter of 2008.

The MnROAD test cell designs and specifications related to this project have been finalized. Plans for the construction project went on sale December 28, 2007, and the project will be let January 25, 2008. The instrumentation, lab testing, and monitoring plans are being developed.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

The research contract is expected to be signed and executed with University contractors, and their work will begin in earnest. The MnROAD construction project will be let January 25, 2008.

STATUS AND COMPLETION DATE:

This project is just getting underway, with completion expected by June 30, 2011.