

Period Covered: April 1, 2008 Through June 30, 2008 (Quarterly Report)

**ALDOT Progress Report for the**  
**State Planning and Research Program**

<b>PROJECT TITLE:</b> Mix Design Criteria for 4.75 mm Superpave Mixtures		
<b>PROJECT MANAGER(S):</b> Randy C. West Ph. # (334) 844-6857	<b>SPR Project No:</b> TPF-5(107) ALDOT Research Project No. 930-615(P)	<b>Project is:</b> <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> RESEARCH & DEVELOPMENT
<b>Annual Budget</b>	<b>Multi Year Project</b> Total Budget for Project \$240,000.00 Total Cost to Date for Project \$217,530.02	

**Research Objectives**

The objectives of this pooled-fund study are to:

- Refine and field validate mix design criteria for 4.75 mm NMAS Superpave mixtures
- Provide guidelines for appropriate application of 4.75 mm Superpave mixes
- Provide guidelines for production and construction of 4.75 mm mixes

**Activities During This Reporting Period**

Several discussions were held with Tennessee DOT (TnDOT) and Minnesota DOT (MnDOT) for scheduling field validation test sections. An NCAT researcher, Mike Heitzman, and the NCAT laboratory staff prepared work orders for the proposed TN and MN projects.

Some time was spent reviewing and providing consultation on the TnDOT mix design efforts. NCAT laboratory staff traveled to the site of the TnDOT project in June and performed sampling, testing, and documented the production and placement of a virgin 4.75 mm mix and 4.75 mm mix with RAP. Laboratory testing on these mixtures will begin shortly.

Due to delays in the MnRoad project, MnDOT was required to find alternative aggregate sources (mine tailings) for the mix. MnDOT will likely perform a one-point mix design verification with the new aggregate before construction at MnRoad. We anticipate that NCAT staff will travel to MnRoad in September for placement of 4.75 mm mix as an overlay on one of the PCC test sections.

**Activities Planned For Next Quarter**

NCAT will assist MnDOT as needed with the mix design for the 4.75 mm mix. When the MnRoad project is constructed, NCAT engineers will be on-site for documenting the project, sampling and field measurements. Materials will be brought back to NCAT for testing. Laboratory testing for volumetric properties, moisture sensitivity, rutting will be completed for the TnDOT samples.

**Problems Encountered or Anticipated**

NCAT is requesting a time extension for the completion of this study to allow for construction, sampling, and testing of the TN and MN field validation projects.

**STATUS AND COMPLETION DATE**

Percentage of work completed to date for total project 90.6 %

Project is:  
X on schedule        behind schedule, explain:

Expected Completion Date: March 1, 2009

Please note that this project has continued with renewed requests for services and additional funding obligations and may be extended beyond the current Expected Completion Date listed above.