**Project Title:** Evaluation of Thin Hot Mix Asphalt Overlay  

**PennDOT Technical Advisor:** John Hocker  

**Project Duration:** June 2012 – June 2016

**Project Purposes:**

Project purposes are to:

- Determine feasibility of a 6.3mm polymer modified Thin Hot-Mix Asphalt Overlay (THMAO) placed at ¾” to 1 ¼” using a 75 gyration mix design for all Interstate and National Highway System routes in Pennsylvania.

- Evaluate the proposed specification by observing and testing during construction, and verify field measurements by laboratory testing.

- Conduct a 3-year field study of selected projects.

The research will determine how to specify the product, how to test the material before placement, how to place the product, and how to evaluate the quality of the finished product.

In support of PennDOT’s Strategic Goals:

- Leverage resources to maximize effectiveness
- Continually increase efficiency
- Promote continuous improvement and innovation

**Anticipated Outcomes:**

Anticipated project outcomes include:

- Guidelines, specifications, and quality procedures for future use of THMAOs in Pennsylvania.

- Updated PennDOT manuals, publications, and related documents.

**Implementation Plan:**

- **Presentation:** The research team will prepare and give a presentation that summarizes the results of the field testing.

- **Update PennDOT Specifications and Publications:** The research team will update PennDOT specifications and publications to incorporate THMAOs.

- **Training:** The research team will use the information gathered to create implementation guidelines for the use of THMAOs.

**Research Partner:** Pennsylvania State University  

**Principal Investigator:** Mansour Solaimanian  

**Project Cost:** $500,000.00