PROJECT OVERVIEW REPORT

1. Center Identifying Number
   TWIN-RU4474

2. Project Title
   Developing Area of Concrete Pavements and Transportation Structures

3. Internal Principal Investigator
   Dr. Ali Maher
   Center for Advanced Infrastructure and Transportation (CAIT)
   Rutgers University
   100 Brett Rd. Piscataway, NJ 08854-8058

4. External Principal
   Boris Stein
   Twining Laboratories
   2883 East Spring Street, Suite 300 Long Beach CA 90806

5. Project Description
   The objectives of this proposal are:
   - To analyze scope of work currently performed by the Bureau of Materials,
   - To understand, based on facts available, current mission of the Bureau of Materials,
   - To understand past and current tasks performed by CAIT for NJDOT and to establish future needs in the area of rigid pavements and structural concrete,
   - To develop in collaboration with CAIT a vision proposal for future work with NJDOT, encompassing experience of both organizations, CAIT and Twining Laboratories, in:
     o Concrete and concrete materials testing and evaluation for quality control and quality assurance purposes,
     o Methods and equipment for non-destructive testing and monitoring pavements and structures,
     o Developing and implementing innovative concrete mixtures for building transportation infrastructure, and
     o Developing and implementing accelerated construction methods.
   - To develop in collaboration with CAIT a workplan for integrating into various technical activities of NJDOT in the area of rigid pavements and structural concrete.

6. Dates and Budget
   Start date: 9/13/2008
   End date: 4/23/2009
   Total Dollars: $25,600

7. Keywords
   Rigid pavements, structural concrete, non-destructive testing, materials