

## Monmouth County Transportation Asset Management System



**Client/Owner:** Monmouth County Traffic Safety & Engineering  
**Project Location:** Monmouth County, NJ

**Signal & Sign Management System:** Project consisted of developing, installing and supporting a Traffic Signal & Sign Management System for the County of Monmouth. At the time, the County maintained approximately 3,000 signs and 165 signalized intersections. The scope of this project included a system study, hardware and software acquisition and configuration, field data collection of signal and traffic sign data, office data input, development of a signal map, scanning existing drawings, training, and technical support.

**Video Log Viewing System:** Project consisted of creating a Video Log Viewing System (VLVS). The VLVS included the project design, data collection, delivery and installation of a client-server type application on which county personnel are able to view digital video along any section of county roadway. The VLVS was completed along 375 miles of Monmouth County and NJ State roadway.

**Safety Management System:** Project consisted of prioritizing the replacement and repair of sub-standard signage along County roadways. GPI provided an inventory of 35,000 warning, regulatory and guide signs. The inventory work included collecting sign and panel data related to the MUTCD sign designation, retroreflectivity, sheeting type, GPS and roadway location, and other pertinent sign information. A digital image of each sign was also collected. A uniquely numbered weather resistant bar code label was affixed to the back of the sign panel when inventoried. Sign specifications and bid documents were prepared for the replacement of substandard signs.

**Bridge Management System:** Project involved the in-depth inspection, live load rating evaluation, report preparation, SI&A coding and collection of GPS data for 300 non-NBIS bridges all in accordance with NBIS and NJDOT Standards. The project also involved the development of a bridge management system (BMS). The BMS was used to organize, quickly access and review hundreds of data fields of pertinent bridge data including structure conditions, live load ratings, digital images, recommended repairs and maintenance history, and bridge drawings. The software developed was customized to meet the needs of the County. The BMS will be used by the County to plan for and prioritize maintenance activities and capital improvement projects, automate work order tasks and track maintenance activities.