

## Computerized System to Map All Traffic Signs using GIS at All TBTA Facilities New York, NY



**Owner:** Triborough Bridge & Tunnel Authority  
**Project Location:** Various Locations, NY

GPI was retained to develop, furnish and install a Computerized Roadway Asset Management System to map and manage various transportation infrastructure assets at TBTA's seven bridges and two tunnels throughout the five boroughs of New York City using Geographic Information System (GIS) Technology. The project will utilize video van technology equipped to provide high-resolution digital imagery of the facilities and determine asset locations using differential and inertial Global Positioning Systems (GPS). Using GIS as the backbone, the enterprise level management system can be easily incorporated into other enterprise level systems in use at the Authority. The system will be developed with the ability to generate user-defined reports and will contain a web viewing component for use over the Authority's Intranet. GPI will provide the necessary training and technical support services to educate users in setup and installation procedures, system operations, user interface options and overall system maintenance procedures. Integration of these technologies into a seamless management system will enable the Authority to effectively manage the existing infrastructure and plan for the future at each of the facilities.

Following delivery and successful implementation of the system, GPI will update the data by collecting, processing and integrating new digital imagery at the various facilities. The update will be performed and delivered approximately one year after the initial system delivery and GPI will warranty the system for the remainder of the Contract. The warranty involves providing necessary technical support to ensure that the system operates in an acceptable manner including telephone support, troubleshooting, on-site visits, training, and application deployment.

A number of optional tasks are also included in the Contract that may be added at a later date to update and expand the system. Options include extending the Contract to provide two additional annual data updates, measuring and integrating reflective properties of traffic signs, processing and integrating additional assets (pavement markings, attenuation devices, guiderail, roadside delineators), and providing extended training and technical support services.