

# SURVEY & MAPPING ON NYS 347, NESCONSET HIGHWAY

Suffolk County, NY

## *Client*

NYS Department of Transportation  
Region 10 State Office Building  
Veterans Memorial Highway  
Hauppauge, NY 11788  
631-952-6927

Contact: Shaju Chalil



## *Project Description*

As the prime consultant on Contract # D015677, Nelson & Pope is providing drawings representing the widening of approximately 15 miles of roadway along NYS 347 from Northern State Parkway to NYS 25A in Port Jefferson Station, to be used for pre-engineering design of roadways. Right-of-way (ROW) mapping and surveying includes boundary, topographical, aerial photogrammetric control survey, conveyance mapping, and acquisition mapping of parcels along the route.

This is the largest ROW mapping contract ever awarded by the NYSDOT. More than 1,500 ROW maps will be produced which will be used in the final design for reconstruction and widening of Route 347 which will likely have a total reconstruction cost estimated at \$400 Million.

The project involves the use of a Global Positioning System (GPS) to establish a Primary Horizontal Control Network and to calculate coordinates and elevation of pre-established Photo Control Targets for aerial mapping as well as ground survey performed with measurements from NGS monuments for both horizontal and vertical control. Instruments being used include robotic total stations with on-board data collection as well as digital levels for second order survey control. Plans delivered are in State Plane Coordinate System NAD83/CORS 2007. Utilizing in-house records, combined with exhaustive title searches at the Suffolk County Clerk's Office, have aided in the boundary survey of more than 5,000 parcels alone while the project is only half complete. Multiple field crews and CADD draftsmen have worked on this project simultaneously so as to complete the first phase of this project ahead of normal schedule on this "high priority" project.

Nelson and Pope is signing and sealing all of the maps produced and is providing the final quality control for the project.



**NELSON & POPE**  
**ENGINEERS & SURVEYORS**