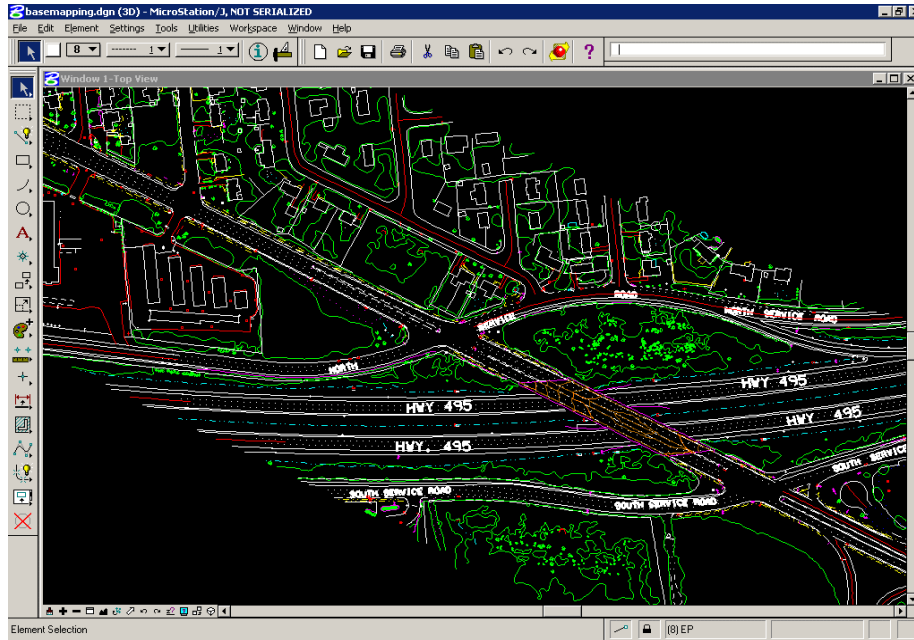


CR-16 Horseblock Road

GPI

Precision Mapping



Client/Owner: Suffolk County
Project Location: Long Island, New York

GPI was contracted through its Babylon branch by Suffolk County, NY to provide precision mapping of 7.1 miles along CR-16 Horseblock Road on Long Island, New York. The mapping was required for the redesign and widening of the road. This mapping, meeting design accuracy requirements, was accomplished through low altitude precision photogrammetric means in significantly less time and fee than would have been required by conventional survey.

GPI provided all required personnel and equipment for the GPS positioning for the survey control for the precision mapping. The area was flown in black and white with a helicopter at an altitude of 360 feet. The project area was then flown again using a fixed wing airplane at altitudes of 1,800 feet and 7,200 feet. Using its in-house first order analytical stereo plotters, GPI's photogrammetric personnel generated 1:250 scale metric mapping with a 0.25M contour interval for a 100-Meter bandwidth centered on the highway, then from the 1,800 feet altitude photography the mapping was extended for a 300-Meter bandwidth at 1:500 scale metric, with a 0.5M contour interval. Finally from the 7,200 feet altitude photography the mapping was extended further for a 1,000-Meter total bandwidth at 1:2,500 scale metric with a 1.0M contour interval. GPI provided the photogrammetric mapping as a seamless dataset across the 3 different mapping scales. Survey control was placed outside the traveled way, reducing lane closures and increasing safety to workers. Final deliverables for the mapping were in both 3-D and 2-D MicroStation DGN with InRoads DTM surface to Suffolk County, NY specifications with Meters as the unit of measurement.

Completion Date: 2002