

## Glenbrook Cables Project

Norwalk, Darien and Stamford; CT

### Project Description:

#### Location

Norwalk, Darien & Stamford;  
CT

#### Owner

Northeast Utilities

#### Duration

2006-2007

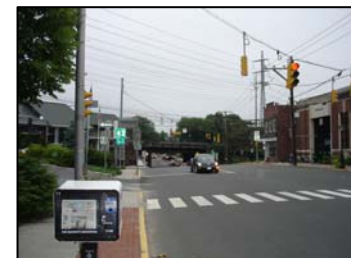
#### Construction Cost

\$80 million

AI Engineers was selected by CL&P/Northeast Utilities and their program manager Burns and McDonnell to perform aerial topographic and property surveying as well as subsurface utility engineering (SUE) services by non destructive methods for an 8.7 mile segment primarily along the Route 1 corridor in Norwalk, Darien and Stamford. AI performed the field survey to locate the painted marks on the ground to establish all underground utility locations, and hired/supervised the contractor to perform the utility test pits. This task is helpful for design purposes in minimizing unexpected obstacles during construction. This project is part of a proposed underground 115kV transmission line with future capabilities to upgrade to a 345kV line. With substations at both ends of this project, AI was also responsible for locating existing features in the Glenbrook substation at the southerly terminus. The project is currently under construction. When completed, the total project cost is estimated to be \$70 million. AI's team of subconsultants include: Geotrack, Inc. and Eastern Topographics.

AI also provided water main design services for relocation of lines that were in conflict with the buried 10' x 30' x 10' splice vaults of the proposed underground 115k electric duct bank.

**CONSTRUCTION SURVEY:** Finally, AI was engaged by the construction contractor to provide construction survey for this project. Additionally, AI is performing the construction inspection observation for work on ConnDOT property to insure contractor complies with department standards and encroachment permit requirements



### Salient Features

- GPS for Project Controls
- Utility Locating
- Aggressive Project Schedule
- Field Survey Including MPT (Along the Route)
- Property Owner Identification
- Field Edit of Photogrammetry
- CADD Deliverables
- Test Pit Program
- Water Main Design
- Permits