

# INTERSECTION IMPROVEMENTS/ROUNDBOUT DESIGN

## Towns of Riverhead and Southampton, NY

### Client

Suffolk County Department of  
Public Works  
335 Yaphank Avenue  
Yaphank, NY 11980  
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Contact: William Hillman, PE



### Project Description

Nelson & Pope was retained by the Suffolk County Department of Public Works to design improvements to the intersections of CR 51, East Moriches-Riverhead Road @ CR 94, Center Drive and CR 63, Old East Moriches-Riverhead Road @ CR 104, Quogue-Riverhead Road & NYS 24, Flanders Road. This project entails upgrading the above intersections through the reconfiguration of the existing traffic circle into a modern roundabout, along with other traffic related improvements in order to accommodate bicyclists, pedestrians and vehicular traffic safely and efficiently.

N&P prepared numerous conceptual alternatives to meet the goals of various design criteria including the elimination of one leg of the roundabout and avoiding major property acquisition. These conceptual alternatives included:

- ◆ Oval shaped roundabouts
- ◆ Side-by-side roundabouts
- ◆ Roundabouts with new adjacent intersections to eliminate a leg
- ◆ Two-lane "turbo" roundabouts

Working with the Town of Southampton and, in conjunction with the alternatives eliminating one leg of the roundabout, N&P prepared concept plans and land-use analysis for the construction of a new roadway through Riverside and potential development for a new commercial downtown area.

### Relevant Project Components

- Capacity/Accident Analysis Utilizing Vissim Software
- Conceptual Design
- Topographic Survey and Mapping
- Community Outreach
- Preliminary and Final Design
- Drainage Facilities
- SEQRA Classification
- SWPPP for Stormwater Permit

