

## Storm Sewer System Analysis & Design for 3 Connecticut Roadways Danbury, Orange & Woodbridge; CT

### Project Description:

#### Location

Danbury, Orange & Woodbridge; CT

#### Owner

ConnDOT

#### Duration

2001- Present

#### Prime/Sub

Sub

#### Construction Cost

\$2.4 million

AI Engineers, Inc. is providing storm water drainage analysis and design for three separate ConnDOT roadway safety improvement projects located in Danbury, Orange and Woodbridge, CT.

**Storm Drainage Improvements, Route 63 & Route 67, Woodbridge, CT:** AI is providing analyses and design of existing and proposed storm drainage systems for the realignment of the Route 63 and Route 67 intersection and geometric changes. AI conducted field inspections of the existing drainage systems and cross culverts in accordance with the *Connecticut Department of Transportation's Drainage Manual* criteria.

**Storm Sewer Design of Route 67 at Stacey Road, Danbury, CT:** AI is currently involved in the design of proposed storm sewer drainage systems along Route 67 and at the intersection of Stacey Road. The project involves analyzing existing gutter flows, design of proposed storm sewer systems, hydraulic grade line calculations of the proposed storm sewers, design of outlet protection, relocating a gravity sanitary sewer on Stacey Road and preparing Connecticut Department of Environmental Protection permit plates.

**Storm Drainage Analyses and Design for Route 114 (Racebrook Road) at Route 34 (Derby Turnpike):** AI provided the analyses of existing storm drainage systems and design of proposed storm sewer systems along Route 114 and at the intersection with Route 34 in conjunction with this safety improvement project.

The project also involved roadway widening and horizontal and vertical alignment changes. Proposed drainage inlets were located using gutter flow analyses and pipe sizes were determined based on Connecticut Department of Transportation's storm sewer design criteria.

### Salient Features

- Condition Inspection
- Hydraulic Analysis
- Hydraulic Design
- Utility Coordination
- Develop DEP Permit Submission