



PC

Systems & Engineering, PC

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**PROJECT EXPERIENCE – New York State Thruway Authority**

*Replacement of the Amsdell Road Bridge over the NYS Thruway at MP 437.66  
D213120; TAB 01-35B*

**S&E** recently completed the replacement of this 2 lane, 4 span structure with a new 2 lane, 2 span composite concrete and steel bridge. The original plan called for a 2 year construction schedule and staged construction. Value engineering resulted in the compression of this project into a single season bridge replacement in one stage. Completion date: August, 2002.



*Inspection of Structural Steel Repairs to the North Grand Island Bridges  
D213104; TAN 01-32B*



**S&E** is currently inspecting the structural repairs to the North Grand Island Bridges. Estimated completion date for this project is November 2003.

*Replacement of the Route 65 Bridge (Clover Street) over the Mainline Thruway at MP 358.25  
D212673 TAB 99-20B*

**S&E** completed construction inspection services on replacement of the Route 65 Bridge over the mainline I-90. This project includes the staged replacement of the existing four span structure with a continuous, 2 span, steel and concrete



Structural Design  
(Industrial & Commercial)

Highway & Bridge Design

Construction Inspection

Member of:



**Engineering the Future**

composite integral abutment, two lane bridge. Mr. John Kiel was the Resident Engineer. The project completion date is February of 2001.

*I-90 Interchange 54 (Aurora Expressway, Route 400)  
D211977 TAB 97-83*

**S&E** provided construction inspection services on the reconstruction of interchange 54 that connects the East Aurora Expressway- Route 400 (TAB 97-83) to the I-90. This project includes the reconstruction / rehabilitation of two bridges, MP 427.5 to MP 428.2 with high strength (70ksi) steel. Mr. John Kiel is the Office Engineer. This project was completed in November 1998.



*Rehabilitation of the Crittenden Road Bridge over I-90 (MP 405.45)  
and Median Safety Improvements (MP 378 - 417)  
D212387 TAB 97-56B  
D212387 TAB 97-62*

**S&E** completed construction inspection services on the rehabilitation of the Crittenden Road Bridge and median safety improvements for the **NYSTA**. This project was completed in January of 1998.

*Painting of the North Grand Island Bridges  
TAN 96-28BP*

Inspection of painting and structural improvements on both North Grand Island Bridges.

*Scour Protection and Widening of Substructures at the I-90 Bridges over Cazenovia Creek (MP 428.6)  
and the Buffalo River (MP 426.8)  
D211977 TAB 95-45B TAB 95-44B*

**S&E** completed inspection services for the future widening of the NYS Thruway I-90 free section in the Buffalo area. Bridge abutment repairs were made in addition to the widening of the piers for construction of additional travel lanes. This work included placement of pile and slab footings under existing pier structures for stream scour protection. Also included was the construction of a fishing / canoe access site that is operated by NYSDEC adjacent to the buffalo River Bridge.

*Replacement of the Henry Street Bridge over I-90 (Phase I)*  
*TAB - 95-45B Erie County*

Replacement of the Henry Street Bridge over I-90. The original four span structure was replaced with a two span steel and concrete composite structure utilizing integral abutments..



*Niagara Viaduct Phase II*  
*D211795*

Level I load rating analysis of the Niagara Viaduct Phase II. The structure consists of 2 parallel-elevated three lane roadways of 113 spans (3500 feet). The work involved the compilation of data from as - built plans and performing elastic, plastic, and fatigue analysis on approximately 220 different structural models and incorporating this information into a proposed new design for the rehabilitation of the structure.

*Roadway rehabilitation and interim paving*  
*TAA 93-36 TAA 93-17*

Inspection of two roadway rehabilitation projects between thruway exits 24 and 25A from MP 161.3 to MP 177.5

*I - 90 Bridge Rehabilitation & Repair over Indian Church Road*  
*(BIN 5512098)*



Bridge inspection survey and rehabilitation design for the I-90 bridge over Indian Church Road. This project was completed in less than 2 months to meet scheduling requirements to meet the 1990 construction season. This eight - span bridge project included pier cap and pedestal reconstruction, and 252 new elastomeric bearings.