North Greece Road Bridge
County-Town Collaboration
“A Success Story”
Outline

- Bo Mansouri
  - Overview
  - How it works
  - Benefits & Caveats

- Dave Goodwin
  - Inter-municipal Agreement
  - Town of Clarkson Qualifications
  - Construction photos
  - Actual Cost vs. Engineer’s Estimate

- Q & A
How It Works

Project is broken down to key components:

- Construction supervision
- Survey & stake out
- Maintenance and Protection of Traffic/Detour
- Site work, utilities, and foundations (Town)
- Pre-cast fabrication, delivery & erection
- Paving
- Railing installation
Benefits To The County

- Plans and specifications
- Detour planning, design and set up
- Construction supervision
- Bidding & award process
- Materials & equipment
- Profit & mark ups
- Positive public relation
Benefits To The Town

- Keep employees productive & challenged
- Revenue to the Town
- Purchase of needed tools and equipment
- Visibility and public relations
Caveat Emptor

- Pass-through Federal aid projects
- Towns that are too busy or understaffed
- Towns that do not have the expertise
- Complex projects are not recommended
- A much more involved process for the County
- Town’s own summer work has to be put on hold
- Accountability vs. partnership
Project Team

- **Owner**
  - Monroe County

- **Designer**
  - Corneles Engineering

- **Contractor**
  - Clarkson Highway Department

- **Pre-cast Bridge Units**
  - BRIDGITEK - Supplier
  - BVR Construction - Erector

- **Other Subcontractors**
  - Villager Construction - Paving
  - Elderlee - Railing
N. Y. State Road Show
and Annual Convention of
N. Y. State Association
of Town Superintendents
of Highways
ROCHESTER
1941

Sponsored by MONROE COUNTY TOWN
HIGHWAY SUPERINTENDENTS' ASSOCIATION, INC.
Intermunicipal Agreement

- Similar arrangement as far back as 1941
- Between Monroe County and its 19 towns
- County Roads are maintained by the towns year-round
- All-Seasons County Work Agreement
  - Snow and ice removal
  - Dead animal pick up
  - Mowing and vegetation clearing
  - Highway maintenance and resurfacing
  - Bridge and culvert replacements
Town of Clarkson Staffing

- Personnel – 12 Fulltime Positions
  - Foreman
  - Working Foreman
  - 2 Heavy Equipment Operators
  - 8 Motor Equipment Operators
Town of Clarkson
Prior Experience

● Water and sewer lines
● Lawton Road bridge - 1990
● Ridgeway Avenue reconstruction - 2002
● North Greece Road culvert - 2005
● Construction of several Town buildings
● Construction of parks and pavilions
Project Snapshot

1. Waterline relocation
2. Demolition of existing bridge
3. Dewatering
4. Foundations
5. Setting the pre-cast bridge & wingwalls
6. Milling and repaving
7. Guide rail
8. Final grading
9. Project close-out
Waterline Relocation

16” DIP with no service interruption
Existing Bridge
Existing Bridge

Steel superstructure on Concrete Abutments
Dewatering

- The streams flow was channeled through 100’ of 20” DIP. The stream inflow and outflow points were kept outside the project area.
- This system was developed by our Foreman the previous year on a similar bridge project for Monroe County.
- Erosion and water pollution control devices were installed according to the plans.
Erosion & Water Pollution
Control Measures

11/14/2006
Technical Support

- Monroe County staff
  - Material ordering
  - Detour maintenance
  - Public contact

- Engineering firm staff
  - Design related questions
  - Survey and Stake out along the way

- Assistant to the Hwy. Superintendent
  - Project coordination & billing the County
Big Brother Was Watching!
Setting the Precast
Forming The Headwalls
Setting The Wing Walls
Adverse Weather
Milling & Repaving

- Milling of the existing roadway, to transition to the new pavement, was done by Villager Construction under their term contract with Monroe County.
- The asphalt and paver were provided by Iroquois Rock, under their term contract with Monroe County.
- Trucking and labor were provided by the Town of Clarkson, with some assistance from the Town of Parma.
Milling and Repaving
Guide Rail
Final Grading
Close-Out Stats

- Start to finish = 16 weeks
  - July 5 – October 28, 2006
- Lumber
  - Dimensional = 1542 LF
  - Plywood = 35 SHEETS
- Stone = 1151.5 CY
- Concrete = 140.5 CY
- Select Fill = 552 CY
- Rebar = 15,200 LBS
- Blacktop = 804 TONS
Project Cost Summary

- **Engineer’s Estimate**
  - $650,381

- **Project Total**
  - $615,908

- **Savings**
  - $34,473 (~5.3%)

- **Construction large ticket items**
  - Labor and Equipment = $170,908
  - Pre-cast units = $245,000
  - Other materials = $165,000
  - Railing = $35,000
Before...

& After...

11/14/2006
An Award Winning Project

New York Chapter
Monroe County/Genesee Valley Branch
2006

Project of the Year
Structures
Less Than $2 Million

North Greece Road Bridge Replacement
Monroe County Department of Transportation
Town of Clarkson
Corneles Engineering, P.C.

Focused on Our Community
The Best Crew In The State!