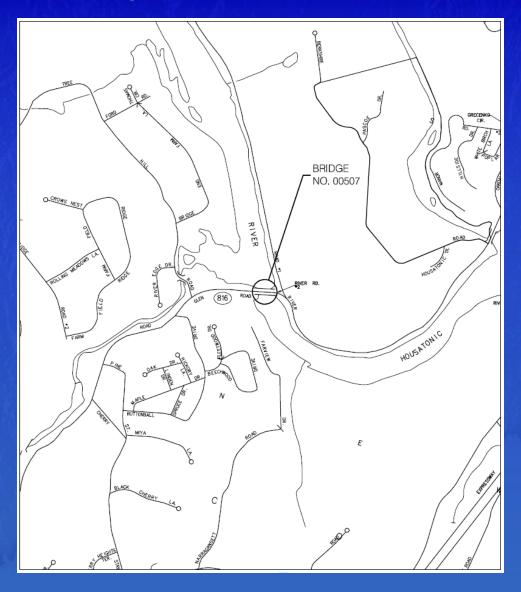
Public Information Meeting

Project 96-193
Rehabilitation of Bridge No. 00507
SR 816 (Glen Road) over
Housatonic River
Newtown/Southbury, Connecticut



Project Location



CTDOT Role and Mission

Bureau of Engineering and Construction

 Responsible for engineering design, construction, and inspection of transportation projects

Contact: Mr. David Cutler, PE



Stantec Consulting Services Inc. Consultant Engineers

CTDOT has retained the firm of Stantec Consulting Services Inc. to provide the design of this bridge project.

Contact: Mr. John F. Eberle, P.E.



Reasons for Project

Structure recommended for rehabilitation under the List 19 Bridge Program.

Reasons include:

- Structurally Deficient Superstructure
- "Poor" Rating



Project Goals

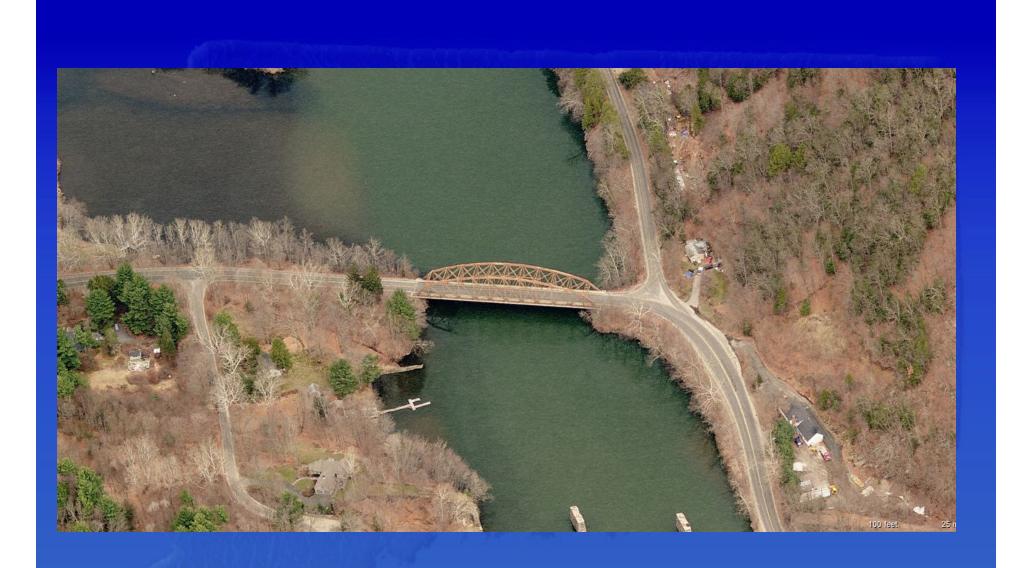
- Rehabilitation of Bridge No. 00507
- Minimize disturbance and improve safety for the traveling public
- Complete construction in a timely manner
- Effectively use funds
- Consider historic nature of existing bridge





Aerial View of Bridge No. 00507





Aerial View of Bridge No. 00507





Looking West thru Bridge

OF TRANS

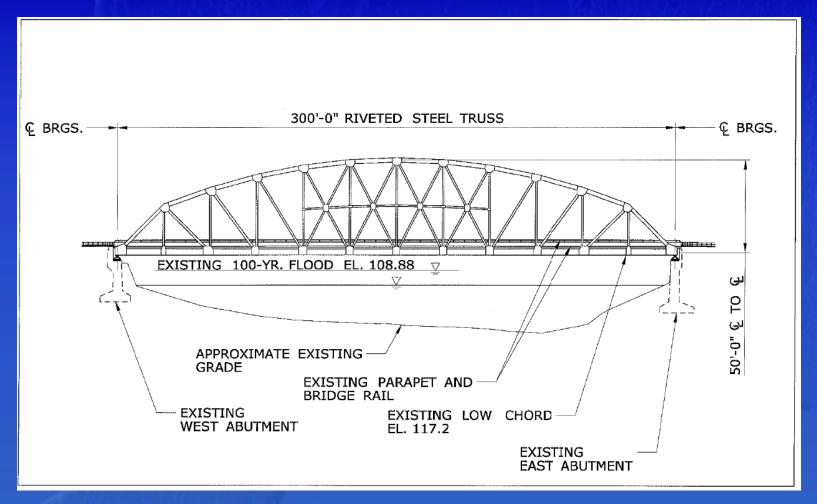
Connecticut Department of Transportation

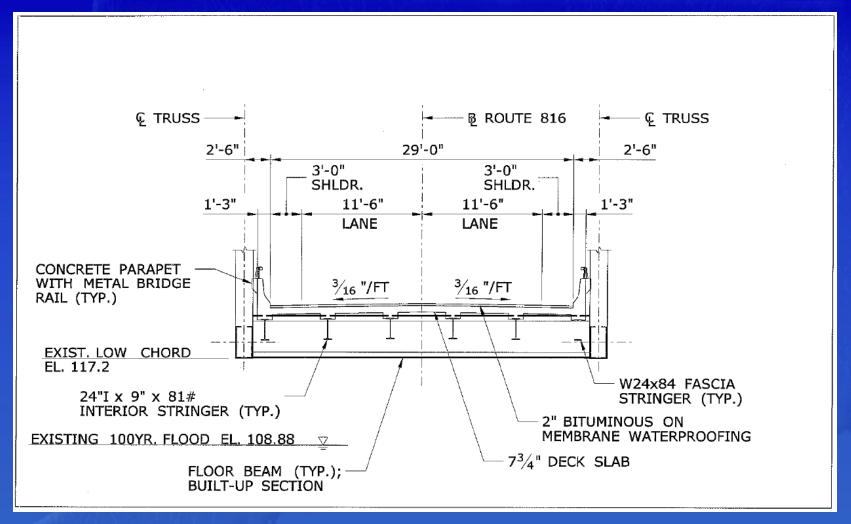


View from West Approach

OF TRANS

- Single span structure built c. 1936
- Rehabilitated in 1986
- Structure Dimensions
 - Total Length = 300 ft single span
 - Overall Width = 36 ft
 - Roadway width = 29 ft
- Located immediately west of horizontal curve (R=200 ft)
- Located in slight crest vertical curve
- Carries one lane of traffic in each direction
 - Estimated Average Daily Traffic (ADT) ~ 3,000 vehicles (2009)





- Superstructure consists of:
 - Steel truss with concrete deck supported by floorbeam and stringer floor system
- Substructure consists of:
 - Concrete abutments
- Bridge is listed on CT Historic Bridge Inventory, and is eligible for National Register of Historic Places









Reasons for Project

Structure recommended for rehabilitation under the List 19 Bridge Program.

Reasons include:

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Existing Bridge Condition





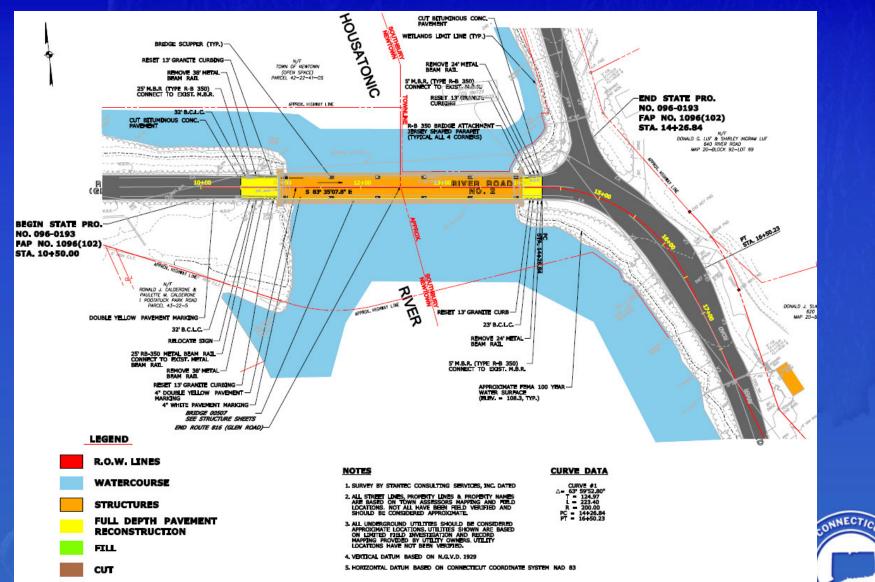
Existing Bridge Condition



Existing Bridge Condition

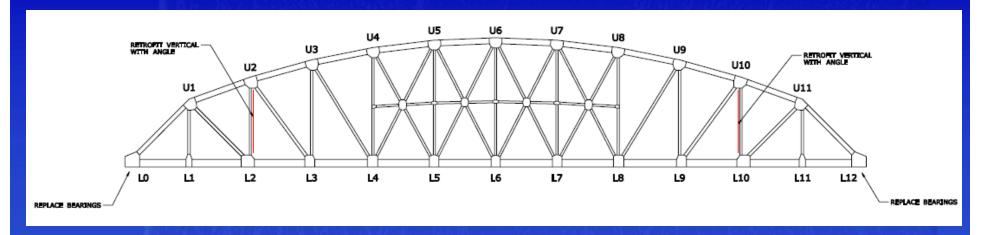


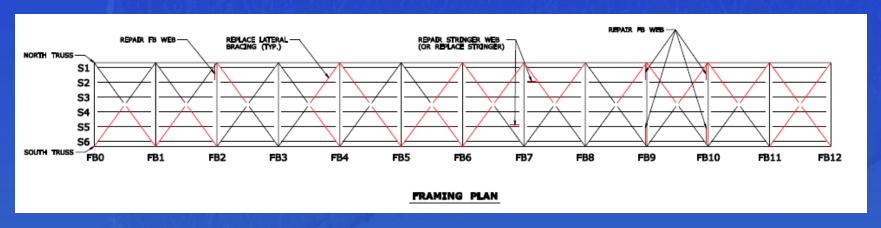
- Strengthen truss members
- Repair/replace deficient floor members
- Rehabilitate concrete deck and overlay
- Blast clean and paint superstructure



- Proposed structure will have high performance concrete overlay
- Full depth asphaltic pavement reconstruction will occur to the approach roadway approximately 30 feet to the east and approximately 45 ft to the west of the bridge
- Bridge railing and parapets will match existing
- Existing roadway geometry will match existing







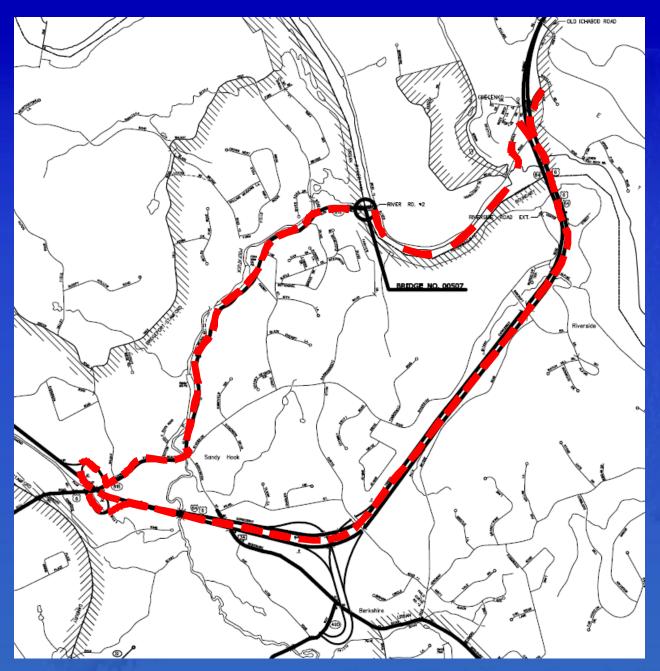
Major Steel Repairs



Construction Staging

- Bridge to be closed to traffic during structure repairs
 - Reasonable detour route is available
 - Eliminating live loads on bridge allows for easier repair methods by contractor
 - Single stage construction will minimize the construction duration
 - Reduced construction duration will result in cost savings to the State
- Alternating one-way traffic on bridge during blast cleaning and painting





Detour



Connecticut Department of Transportation

Environmental Considerations

- No direct impacts to watercourse or wetlands
- No threatened or endangered species identified
- No known contaminated and/or hazardous materials within project limits
- Painting operations to be fully contained to collect debris
- Best management practices will be utilized to handle sedimentation control during construction



Public Utilities

- No subsurface utilities in the vicinity of the bridge
- Overhead utilities north of bridge:
 - Fiberoptics
 - Power Distribution
- Conduit bank attached to south face of bridge
 - SNET/CLP
- Utilities will be maintained in place or relocated as necessary during the proposed construction activities



Rights-of-Way

No permanent impacts to private property are anticipated.



Project Cost

The estimated construction cost for the entire project is approximately \$6,000,000 (2011).

This bridge replacement is anticipated to be undertaken using 80% Federal funds and 20% State funds.

Project Schedule

The project is anticipated to be constructed starting in Spring 2014.

Project duration estimated to be two construction seasons:

- One season for structure repairs
- Portion of second season for painting

The schedule is preliminary and is predicated upon the availability of funding and obtaining all necessary permits.

Contact Information

- CTDOT

Mr. David Cutler, PE 2800 Berlin Turnpike, P.O. Box 317546 Newington, CT 06131-7546

Stantec Consulting Services Inc.

Mr. John F. Eberle, PE 2321 Whitney Avenue Hamden, CT 06518 203-281-1350



THANK YOU...

FOR YOUR TIME AND ATTENTION

Connecticut Department of Transportation and Stantec Consulting Services Inc.

Connecticut Department of Transportation

