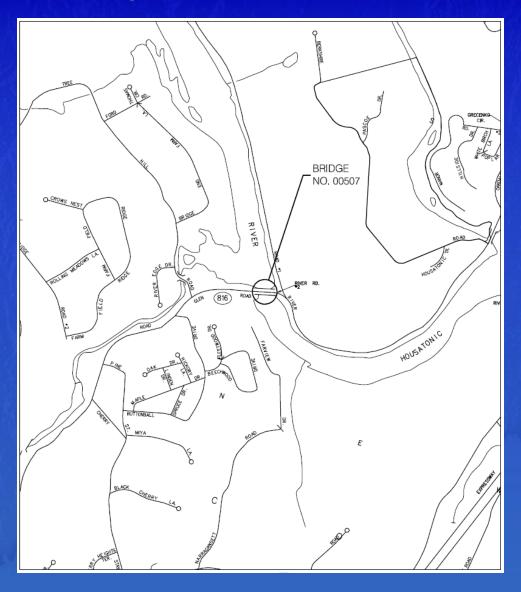
#### **Public Information Meeting**

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

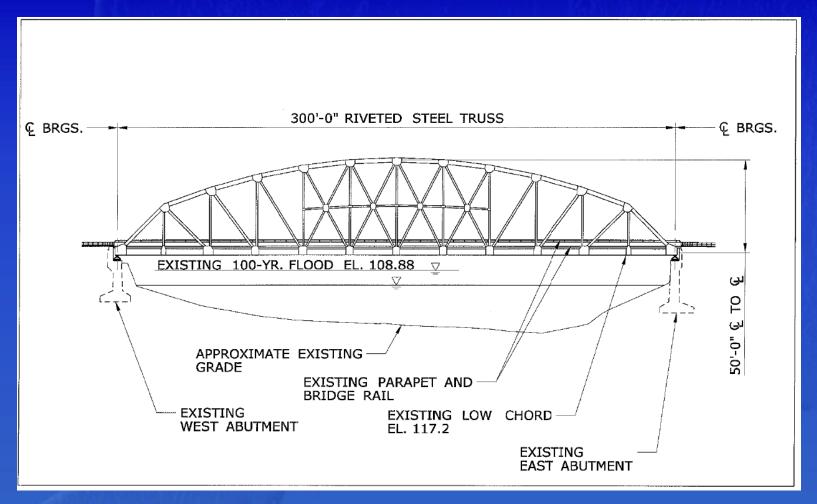
Connecticut Department of Transportation

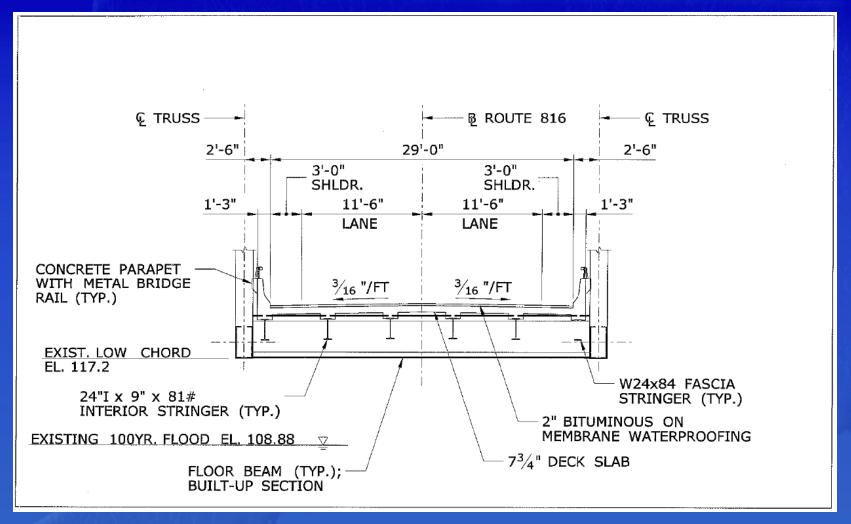


## View from West Approach

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:**

- Structurally Deficient Superstructure
- "Poor" Rating



### **Existing Bridge Condition**





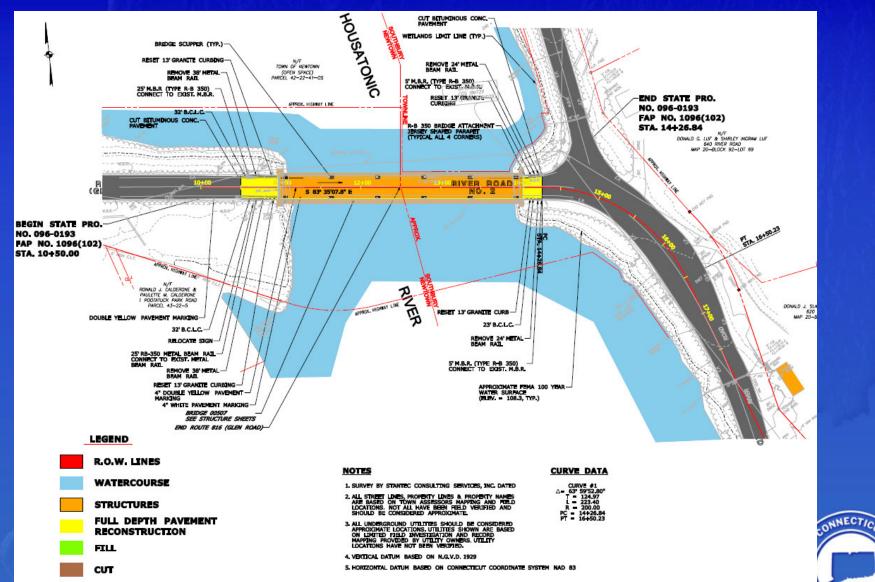
### **Existing Bridge Condition**



### **Existing Bridge Condition**

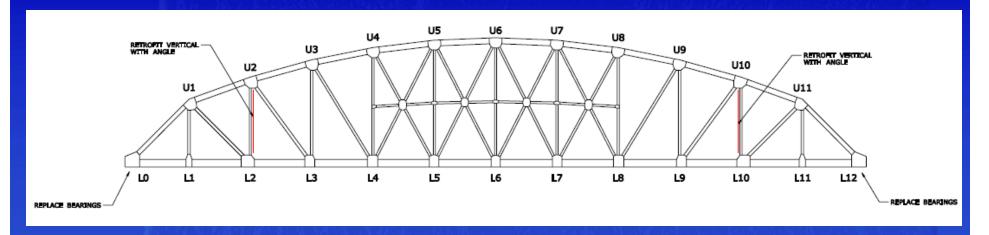


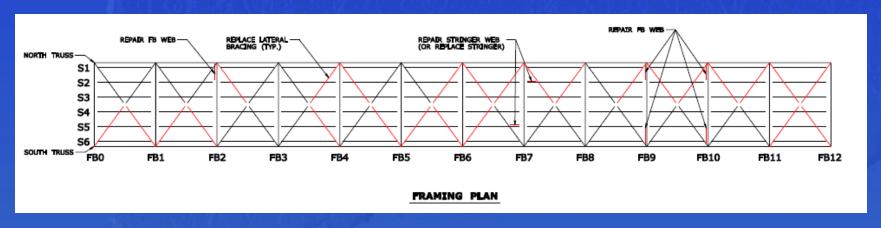
- Strengthen truss members
- Repair/replace deficient floor members
- Rehabilitate concrete deck and overlay
- Blast clean and paint superstructure



- 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







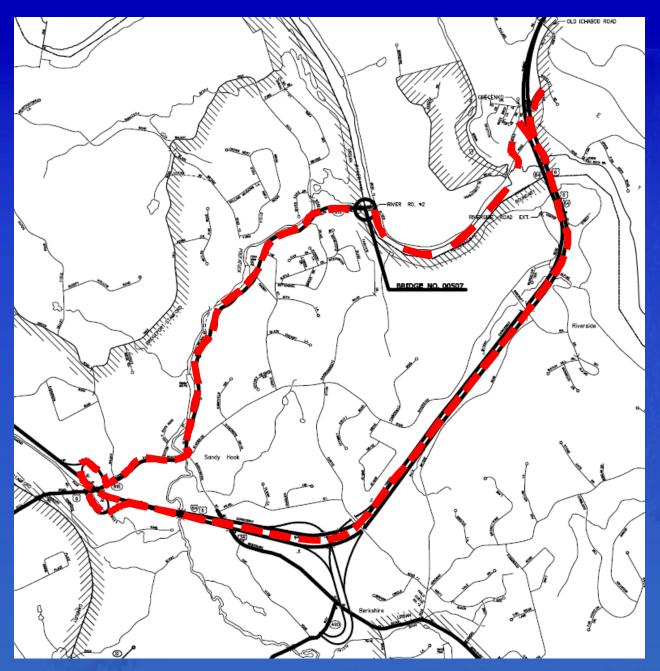
#### **Major Steel Repairs**



#### **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

