Public Information Meeting

State Project No. 48-196
Rehabilitation of Bridge No. 03361
U.S. Route 5 over Route 190
Enfield, Connecticut

Wednesday, March 19, 2014 at 7:00 pm
Council Chambers of the Enfield Town Hall
820 Enfield Street
Enfield, Connecticut
Introductions

• Connecticut Department of Transportation
  – David A. Cutler – Transportation Supervising Engineer
  – Andrew Cardinali – Project Engineer

• CME Associates, Inc.
  – Jacob Argiro – Director Project Management Services
  – Donald Wurst – Senior Project Manager
  – Susan Bakulski – Project Engineer
Department’s Role

- Systematically inspect bridges for deficiencies and schedule the rehabilitation of structures
- Oversee the development of technical drawings and bid documents on projects
- Administration and inspection during construction
Project Needs and Goals

• Rehabilitation of bridge to extend service life

• Improve roadway ride-ability for traveling public

• Maintain/provide a safe crossing on U.S. Route 5 of Route 190 for vehicles, bicycles & pedestrians

• Minimize disturbance for the traveling public during construction
Project Overview

- Project is in preliminary design stage
  - We are looking for your input

- Rehabilitation of bridge to repair deteriorated elements

- Preventive maintenance to ensure extended service life
U.S. Route 5 Over Route 190

• Built in 1966
• Reinforced concrete deck supported on continuous welded steel plate girders
• Substructure consists of reinforced concrete abutments and a reinforced concrete multi columned pier
U.S. Route 5 Over Route 190

Existing Geometry
- U.S. Route 5 (Enfield Street) over Route 190 (Hazard Avenue)
- (2) spans, total bridge length of 239’
- Bridge width = 40’-0” (curb-to-curb)
- Carries (2) NB lanes, (2) SB lanes,
- No shoulders on each side of bridge
- 5’-7” sidewalks along each side of bridge

Existing Conditions
- Deck: “5” Fair
- Superstructure: “4” Poor
- Substructure: “6” Satisfactory
- Paint: “5” Fair
- Structure Evaluation: “4” Poor
- Average Daily Traffic: 11,400 vehicles on bridge
U.S. Route 5 Over Route 190
U.S. Route 5 Over Route 190
U.S. Route 5 Over Route 190
U.S. Route 5 Over Route 190
Proposed Rehabilitative Measures

- East sidewalk removal and parapet modifications
- Re-striping the bridge with three 11’ lanes and 6’ shoulders
- Approach roadway curb line shift to tie into bridge width
- Deck concrete patching/repairs
- Removal of wide concrete haunches over travelways
- Membrane and overlay replacement
- Deck joint replacement
- Protective fence replacement
- Structural steel repairs
- Painting of fascia girders and spot painting of structural steel and fixed bearings
- Expansion bearing replacement
- Substructure repairs
Proposed Rehabilitative Measures; Above Deck

- East sidewalk removal and parapet modifications
- Deck concrete patching
- Membrane and overlay replacement
- Deck joint replacement
- Protective fence replacement
- Re-striping the bridge with three 11’ lanes and 6’ shoulders
- Approach roadway curb line shift to tie into bridge width
U.S. Route 5 Over Route 190

Proposed Rehabilitative Measures; Below Deck

- Deck concrete repairs
- Removal of wide concrete haunches over travelways
- Structural steel repairs
- Painting of fascia girders and spot painting of structural steel and fixed bearings
- Expansion bearing replacement
- Substructure repairs
U.S. Route 5 Over Route 190

EXISTING CROSS SECTION
SCALE: 1"=3'

LEGEND

PROPOSED STRUCTURE

PROPOSED OVERLAY

PROPOSED CROSS SECTION
SCALE: 1"=3'

PRELIMINARY DESIGN REVIEW
MPT U.S. Route 5: Stage 2
Right of Way & Environmental Impacts

Anticipated Impacts to Private Properties:

- Repair work and final curb line shift is to remain within the State’s ROW
- Temporary impact of traffic flow alterations to accommodate staged construction
- Temporary impact of noise disturbance at adjacent properties

Anticipated Impacts to Environment:

- There are no regulated wetlands in the project vicinity
- No environmental impacts anticipated
Project Cost

- Construction cost for this project is currently estimated at approximately $4,200,000
- The rehabilitation of this bridge will be undertaken using State Funds under the “Fix-It-First” program
Project Schedule

• Construction Start: Spring of 2015

• Completion: Winter of 2015

• The schedule is preliminary and is subject to change
Contact Information

Thank You
Questions and Comments

Andrew Cardinali – Project Engineer
Connecticut DOT
2800 Berlin Turnpike
P.O. Box 317546
Newington, CT 06131

Email: andrew.cardinali@ct.gov
Phone: 860-594-3315