

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



memorandum

subject: Task 100 Environmental Screening
Project No. 0040-0141
State Bridge Program
Bridge No. 01138 Route 82
Over Connecticut River
Towns of Haddam and East Haddam

date: May 31, 2017

to: Rabih M. Barakat
Transportation Principal Engineer
Bureau of Engineering and Construction

from: Adam G. Fox
Transportation Principal Engineer
Bureau of Engineering and Construction

In response to your email dated May 15, 2017 this project has been reviewed and determined that further investigations are warranted.

A Task 210 – Subsurface Site Investigation, will be assigned to one of the Department's task-based consultants in order to perform subsurface sampling related to dredging work that is proposed to take place as a part of this project.

Also, upon receipt of approved Preliminary Design Plans, this project will be forwarded to the TRC Environmental Corp. who will survey the project for lead-based paint and any other contaminated or hazardous materials (i.e. asbestos, guano, etc...). Plans, specifications, and cost estimates will be provided, if required, pending the results of the environmental investigations.

Attached is a copy of the Task 100, Environmental Screening Review form by which the project was evaluated.

If you have any questions, please contact Michael Bedson at extension 3004.

Attachment

Michael F. Bedson

cc: Andrew J. Cardinali – Dobieslaw A. Kania - Jonathan W. Kang
Donald P. Wurst - Anand Seshadri- Tracey A. Brais (CME)
Adam G. Fox – Judith A. Nemecek – Michael F. Bedson

TASK 100 ENVIRONMENTAL SCREENING REVIEW

Project Number: 0040-0141- ASSIGNMENT #.: 154-5588 Date: 5/30/2017

Project Description: Bridge No. 01138 Route 82 over CT River

RIGHT-OF-WAY ACTIVITIES

Project Area Type: Commercial

Full Take: ☐

Partial Take, Substantial: ☐

Partial Take, Minor: ☒

Easements: ☐

Comments: No major rights of way takes anticipated.

SUPPORTING CATEGORIES

Drainage Improvements Relocations: ☐

Utility Involvement Relocations: ☐

De-watering Operations During Construction: ☒

Environmental Permits Required: ☒

River Work: ☒

Railroad Property Involvement: ☐

Excavations in Excess of 3 Feet Deep: ☒

Excess Materials Generated for Offsite Disposal: ☒

Potential Lead Based Paint Impact: ☒

Potential Asbestos Material Impact : ☒

Comments: Potential lead based paint and asbestos impact as part of bridge rehab work. Submarine cables involve trenching by dredging with material to be disposed of upland if contaminated.

Recommendation Task 210 & Task 710

Reviewer:: Michael F. Bedson

m e m o r a n d u m

subject: State Bridge Program
State Project No. 40-141
Bridge No. 01138
Route 82 over Connecticut River
Haddam and East Haddam

date: May 15, 2017

to:

Mr. Adam Fox
Transportation Principal Engineer
Bureau of Engineering and Construction

from:

Andrew J. Cardinali
Transportation Supervising Engineer
Bureau of Engineering and Construction

Andrew Cardinali

Digitally signed by Andrew Cardinali
DN: cn=US, e=andrew.cardinali@ct.gov,
ou=Consultant Bridge Design,
cn=Andrew Cardinali
Date: 2017.05.15 09:34:30-0400

Hazardous/Contaminated Materials Screening

The subject project consists of the following repairs:

Structural:

- Strengthening repairs to structural steel floorbeams, stringers and truss members.
- Concrete patching in the deck grids in Spans 1 and 2.
- Deck replacement in-kind over the machinery pit in the swing span.
- Placement of 1" thick polyester polymer concrete overlay on the deck in Spans 1 and 2 and the half-filled grid section over the machinery pit.
- Replacement of the bridge rail with a bridge rail system that meets current standards.
- Replacement of the Span 1 Floorbeam 9 disc bearings and cleaning and painting of other bearings.
- Spot painting of repaired locations, bearing plates and other areas starting to show rust.
- Replacement of the contraction splice joint in Span 2 with a preformed compression seal.
- Substructure patching (especially on Pier 3) and masonry repointing.

Mechanical System:

- Replacement of span drive brakes, brake wheel couplings, brake covers, reducer input shaft key, and tachometer drive shafts and couplings.
- Replacement of seals and gaskets in the pinion shaft couplings, reducer output shafts and pinion shaft bearings.
- Replace span drive machinery reducer lubrication pumps and couplings.
- Replace hydraulic cylinders and gate guides for barrier gates.
- Correct bridge balance and balance wheel shims.
- Replace deteriorated rack/balance wheel track anchor bolts and segment bolts.
- Replace reducer packing seals and replace motor couplings for center and end wedges.
- Painting repairs to machinery equipment.

Electrical System:

- Replacement of all limit switches.
- Replacement of the automatic PLC system.
- Replacement of the Motor Control Center.
- Replacement of the manual relay control and all control conduit and conductors.
- Replacement of span drives and motors.
- Replacement of submarine cables and supports.
- Replacement of power panels, power conduit and conductors, maintenance lighting and receptacles.
- Replacement of all wedge motors, barrier gate motors and speed reducer lubrication pump motors.

The addition of a cantilevered sidewalk on one side of the bridge is being investigated. If the sidewalk is constructed, minimal disturbance is anticipated to the ground immediately adjacent to the bridge.

Additional information is attached for your use in generating the screening evaluation for each of the subject bridges:

- Location Map
- Limits of Work

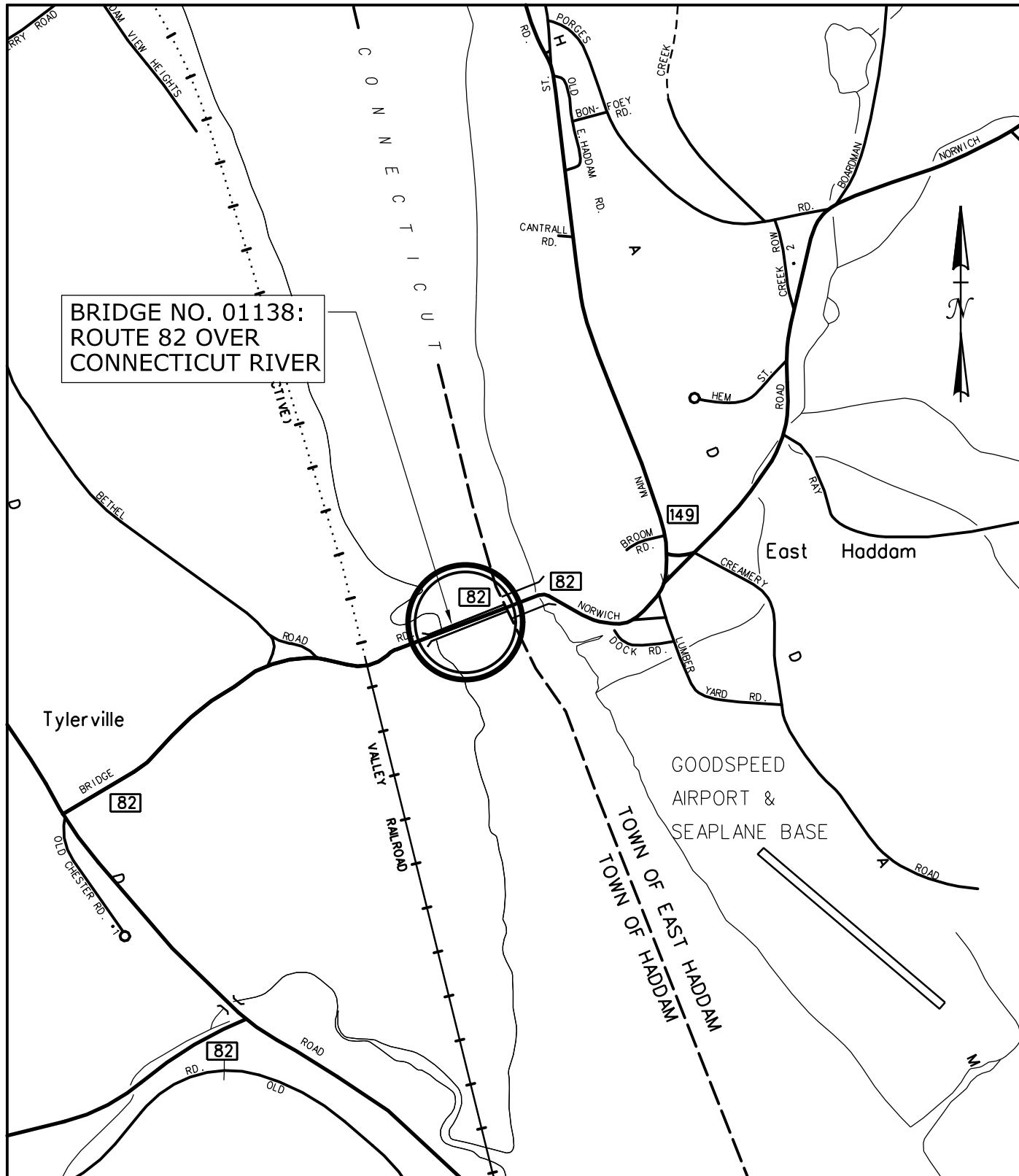
Please provide this office with the results of the screening evaluation for use in developing and advancing this project.

A reply by June 30, 2017 would be appreciated. Should a lead investigation or other hazardous material investigation be required, please provide the results, including all special provisions, by September 12, 2018. This project is funded with 80% Federal funds and 20% funds. Time expended for the completion of these activities should be charged to Project No. 40-141. If you have any questions or require additional information, please contact Ms. Dobieslaw A. Kania, Transportation Engineer III, at Ext. 3389.

Attachments

Tracey A. Brais/tab/jwk

cc: Rabih M. Barakat – Andrew J. Cardinali – Dobieslaw A. Kania – Jonathan W. Kang
Donald P. Wurst – Anand Seshadri – Tracey A. Brais (CME)



SCALE IN FEET



STATE PROJECT NO.:

40-141

CITY/TOWN:

HADDAM/EAST HADDAM



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



BRIDGE NO. 01138
LOCATION MAP



CME Associates, Inc.
CONSULTING ENGINEERS &
ENVIRONMENTAL PLANNERS
333 E. RIVER DR., SUITE 400
EAST HARTFORD, CT 06108

DATE:

05/12/2017

SHEET NO.:

1 OF 1



CONNECTICUT RIVER

PROPOSED
CONTRACTOR
POINT OF ACCESS

APPROXIMATE
LIMITS OF WORK
(ABOVE WATER)

APPROXIMATE
LIMITS OF TRENCHING
IN CHANNEL BED
FOR SUBMARINE CABLES

ROUTE 82

ROUTE 82

T.L. EAST HADDAM
HADDAM



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



CME ASSOCIATES, INC.
32 Crabtree Lane, Woodstock, CT 06091
933 East River Drive, East Haddam, CT 06018
50 Elm Street, Southington, MA 01550
888-291-3027 | www.cmeengineering.com

DRAWING TITLE:

PROPOSED WORK ZONE
AND STAGING AREA

STATE PROJECT NO.:

40-141

DATE:

05/2017

SHEET NO.:

1 OF 1

CITY/TOWN:

EAST HADDAM/HADDAM

BRIDGE NO.:

01138

SCALE:

1"=100'

Bedson, Michael F.

From: Kania, Dobieslaw A.
Sent: Tuesday, May 30, 2017 11:50 AM
To: Bedson, Michael F.
Subject: RE: Task 100-0040-0141 Follow-up

Mike,

Sorry for the delayed response.

Our responses are as follows:

- **Regarding trenching in channel shown on the Proposed Work Zone and Staging Area figure:**
 - Is the underwater trench work for submarine cables a part of this project, or part of a separate project?
Trench work will be performed as part of this project.
 - If it is a part of this project, how will the sediments be handled? Will the cable be installed via tunneling, will you be digging and handling/keeping all sediments underwater, or will you be taking the route of dredging the sediments with the intention to handle and dispose upland?
We anticipate dredging of the sediments and disposal upland. If the soil is not contaminated, it could be reused to cover the submarine cables.
- **Regarding excavation that may take place to install sidewalks along bridge:**
 - The project description states that install of sidewalks is a potential improvement made to the bridge, is this the only anticipated on-land excavation activity associated with this project?
The proposed rehabilitation project includes the construction of a cantilevered sidewalk structure that will be supported on the bridge. Excavation related to the installation of new pedestrian gates in the approaches and relocation of some existing traffic control devices (depending on the layout of the approach sidewalks) is anticipated. Approach sidewalks will not be constructed as part of this project; the towns of East Haddam and Haddam are responsible for the design and construction of approach sidewalks. No other on-land excavation is anticipated.

Thank you,
Dobie

Dobie A. Kania
Project Engineer
Connecticut Department of Transportation
Division of Bridges
2800 Berlin Turnpike
Newington, Connecticut 06131-7546
☎ 860-594-3389
☎ 860-594-3218
✉ DobieslawA.kania@ct.gov

From: Bedson, Michael F.
Sent: Tuesday, May 30, 2017 7:11 AM
To: Kania, Dobieslaw A.
Subject: Task 100-0040-0141 Follow-up

Good Morning Dobieslaw,

I had emailed you on May 16 regarding a Task 100 screening request for the improvement work that will be taking place on Route 82 Bridge in Haddam and East Haddam. I was hoping that you could provide a status update on my request for additional information. I did see that your automatic out of office reply noted that you were returning on the 22nd so I am sure you are likely pouring over several emails from others. Once that information is received from your group I will be able to complete my screening of the project. Please do not hesitate to contact me if you have any questions.

Thanks,

Mike

**Michael Bedson, EIT
Environmental Compliance
Department of Transportation
2800 Berlin Tpke, Newington, CT 06111
D. 860-594-3004 M. 860-816-4656**