CAPE COD CANAL BRIDGES
MAJOR REHABILITATION EVALUATION REPORT

MASSDOT
Working Group Meeting

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9 August 2018

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PRESENTATION OUTLINE

• Major Rehabilitation Evaluation of Cape Cod Canal Highway Bridges

• Major Rehabilitation Evaluation Report (MRER) - Activities Completed to Date

• MRER Next Steps

• Collaboration with MassDOT
MAJOR REHABILITATION EVALUATION OF CAPE COD CANAL HIGHWAY BRIDGES

Components of the MRER include:

- Structural Engineering
- Cost Engineering
- Economic Justification
- Environmental Analysis of Alternatives

MRER will evaluate Rehabilitation and Replacement alternatives against “Fix-as-Fails” baseline for both the Bourne and Sagamore.

Layout the necessary major rehabilitation milestones over the functional life (50 yrs.) of each structure, or recommend replacement of one or both structures.

MRER uses modern bridge replacement type for comparison purposes; replacement will require its own authorization and design studies for implementation.
MAJOR REHABILITATION EVALUATION REPORT (MRER)
ACTIVITIES COMPLETED TO DATE

• Structural Engineering – Risk and Reliability study identifies components and complex systems which need restoration / replacement to improve or maintain performance.

• Cost Engineering – Calculates the construction estimates and risk to cost / schedule for rehab and replacement alternatives.

• Economic Justification – evaluate the cost of alternatives against their benefits/impacts resulting in Benefit to Cost Ratios (BCR).
MRER NEXT STEPS

• Continue effort on Environmental Analysis component – NEPA process to evaluate impacts to human environment for all alternatives.

• Public and Stakeholder Involvement meetings / presentations to start in late October:
  - Including Cooperating agencies, Stakeholder Groups, and Public
  - Initial Stakeholder/Working Group Meeting
  - Followed by five (5) Public Informational meetings held around the Cape, Islands, and South Shore for maximum participation.

• Additional meetings to follow deliverables from analysis.
COLLABORATION WITH MASSDOT

• Continued collaboration with MASSDOT
  – Technical Meetings to confirm results of traffic modeling, and cost attribution for bridge approaches.
  – Project alignment between the two organizations to minimize impact to the public.
  – Serve as MRER External Technical Review member.

• Corps continue regular routine inspection and maintenance on both bridges.

• Bourne Bridge joint replacement – Corps in negotiations with contractor to move Fall 2018 work to Spring 2019.
QUESTIONS / COMMENTS

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