

FALLS BRIDGE ADVISORY COMMITTEE MEETING
MINUTES
02/28/18

In Attendance:

Bridge Advisory Committee (BAC) Members: Facilitator Jim Schatz, Mike Astbury, Deborah Brewster, John Chapman, Lynne Clark, Bill Cousins, Stephen Rappaport, Karen Wyatt

Department of Transportation (MDOT): Andy Lathe, Wayne Frankhauser, Michael Wight

Federal Highway Administration (FHWA): Cheryl Martin

HNTB: Kevin Brayley, Tim Cote

Public: Sean & Chris Guinness, Roxanne Jansen, Thom McLaughlin, Scott Miller, Martin Savalchak, Dolores Seymour, Butler Smythe, Chris Sockalexis

Replacement of Existing Bridge

- Replacement Options
 - Superstructure Options
 1. Precast Concrete Girders
 - Prefabricated Arch
 2. Tied Arch
 - Steel Arch and Concrete Tie-Girder
- Replacement Bridge Constructability Approach
 - Conventional Construction
 1. Traffic is re-routed

2. Existing bridge is removed
3. Forms are constructed on site using wood; then concrete is poured

➤ ABC – Prefabricated Bridge Elements

1. Prefabrication done off-site; cranes used later to set into place
2. Crews work night and day shifts; additional noise and lights
3. Road closed for short duration

➤ ABC – Lateral Slide

1. New bridge constructed to west of existing bridge; leaves existing bridge open to traffic
2. Labor intensive; may require crews to work 24/7.
3. Short duration for road closure; no need for temporary bridge

• Replacement Bridge Construction Schedule

➤ Conventional Construction (6 phases) – 18 to 24 months

1. Clear trees & relocate overhead utilities
2. Construct temporary embankments, temporary bridge & trestles
3. Close bridge to traffic and demolish existing bridge
4. Stabilize substructure
5. Superstructure replacement
6. Open bridge to traffic and do final clean-up and site restoration

Summer, 2018 to Summer, 2022. Duration subject to change. Schedule does not account for possibly required archeological remediation. Assumes November to March in-water work with no winter shutdown.

➤ ABC – Prefabricated Bridge Elements (5 phases) – 12 to 18 months

1. Clear trees & relocate overhead utilities
2. Construct temporary embankments & trestles
3. Complete portions of substructure rehabilitation
4. Close bridge to traffic (50-60 days) and accelerate bridge construction: demolish existing bridge, complete substructure rehabilitation (precast abutment cap) and replace superstructure (precast girders & deck)
5. Open bridge to traffic and do final clean-up and site restoration

Summer, 2018 to Fall, 2021. Duration subject to change. Schedule does not account for possibly required archeological remediation. Assumes November to March in-water work with no winter shutdown.

➤ ABC- Lateral Slide (5 phases) – 18 to 24 months

1. Clear trees & relocate overhead utilities
2. Construct temporary embankments & trestles
3. Construct new bridge west of existing; begin substructure rehabilitation
4. Close bridge to traffic (50-60 days), demolish existing bridge, complete substructure rehabilitation, and do lateral slide of new superstructure
5. Open bridge to traffic and do final clean-up and site restoration

Summer, 2018 to Spring, 2021. Duration subject to change. Schedule does not account for possibly required archeological remediation. Assumes November to March in-water work with no winter shutdown.

• Approximate Replacement Bridge Cost

➤ Conventional Construction

Prefabricated Standard Girder	\$5,300,000 to \$5,800,000
Prefabricated Arched Girder	\$5,600,000 to \$6,500,000
Tied Arch	\$6,200,000 to \$6,800,000

➤ Accelerated Bridge Construction

Prefabricated Standard Girder	\$5,400,000 to \$7,000,000
Prefabricated Arched Girder	\$5,700,000 to \$7,900,000

Tied Arch

\$6,700,000 to \$7,200,000

Alternate Route Concept Update

- Horizontal and vertical geometry for 45 mph roadway
 - Updated t-intersection on east side.
 - 8% grade slope on east side
- Minor excavation expected on east side at bridge approaches. Unknown depth to bedrock
- Additional survey needed
- Unknown wetland limits
 - Locate bridge piers outside of primary channel
 - Move fill slopes away from Salt Pond to minimize environmental impacts
- Unknown archeological considerations

Questions / Comments

1. Request for a consensus from BAC for contractors doing multiple shifts. *(Andy)*
2. If doing the accelerated construction plan, are there inspectors? *(Lynne)*
Yes. Inspections along the way. *(Wayne)*
3. If doing the accelerated construction plan, how much during the 50-60 days is time for demolition compared to construction? *(Scott)*
4-6 weeks *(Tim)*
4. In Meeting #9, you didn't do a time line. Would like to compare. *(John)*
Yes. We can do that. *(Tim)*
5. Time penalties to contractors based on total project costs and liquidated damages. Link incentives to closure time.
6. Department of Transportation has a yearly budget. DOT has \$5,000,000 allocated for project.

7. Design and local issues to be discussed at next meeting.
8. How confident is DOT on 50-60 days bridge closure time? (Scott)
9. If the Town acquires the bridge, special consideration must be given to the bridge condition at the time of the transfer (repairs required? Cost? Liability?)
10. Anecdotal information on emergency response services south of the bridge is difficult to obtain (Chapman/Wyatt)
11. Can aerial utilities be attached to the bridge? Lighting? Power at the site? (Wyatt)
 - a. Utility relocation could be considered, however, the cost to relocate would not be the State's burden. (Lathe)
 - b. The bridge is not currently lit or supplied power. Is there a desire to illuminate the site? A meter would need to be installed to measure power consumption; power usage and long-term maintenance would be a cost to the town. (Lathe)
12. The alternate alignment option tie-in on the west side may have very poor line of site issues due to presence of a hill and near intersection with Sedgwick Ridge Road.

From Blue Hill Site Link & Email (01/24-02/26) – emailed to BAC members

Andy spoke with Elsa Niehoff and encouraged her to comment on the Blue Hill site link. <http://www.maine.gov/mdot/projects/bluehill/fallsbridge/>

Next Meeting: 03/22/18 at 6pm
Straw Poll re: Temporary Bridge

Adjourned at 8:12pm