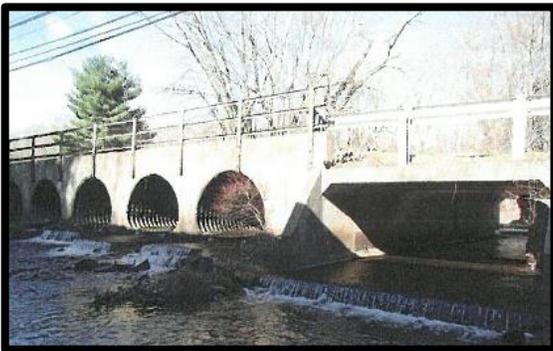


To: Transportation Committee
From: Sotoria Montanari, CRCOG Program Manager
Date: August 7, 2020
c: Rob Aloise, CRCOG Director of Planning
Michael Ahern, Town of Berlin
Subject: LOTCIP funding increase request – Kensington Bridge Replacement Project in Berlin

A Transportation Committee meeting will take place at 12 PM on Monday, August 17, 2020. At the meeting, we will be discussing and acting on the following:

Kensington Road Bridge Over Mattabasset River Replacement Project (L007-0001)

Based on the most recent engineering estimate, the Town of Berlin is requesting a LOTCIP funding increase of \$1,078,200 from \$880,800 to \$1,959,000 (102% increase). This project was initially approved in July 2017 (Phase 1 LOTCIP Solicitation) by the Transportation Committee as a rehabilitation project for \$880,800. The bridge has since limited traffic due to its reduced load rating restricting heavy vehicles (maximum 8-ton) and its sufficiency rating of 40.10%.



Originally, the bridge was going to be rehabilitated by replacing one of the pipe culverts with a new pre-cast concrete box culvert and slip lining the four remaining culverts with new corrugated metal. The CTDOT Bridge Unit reviewed the proposed design and determined that the integrity of the existing overall structure, inlet/outlet conditions, and projected scour and service life for the proposed rehabilitation would not ensure a 75-year service life. CTDOT suggested the Town conduct a Structure Type Study to determine the feasibility of a replacement structure.



The Town has since progressed the project by completing a Preliminary Structure Type Study (July 2020) and determined that replacing the existing culverts with 4 pre-cast concrete box culverts will ensure a 75-year service life. Additionally, the box culverts will provide a more efficient means to construct and meet environmental permitting requirements with adequate hydraulics to pass the 25-year design flow without overtopping the roadway. One of CRCOG's On-Call 3 consultants reviewed the Structure Type Study submitted and concurred with the Town consultant's conclusion.

The additional funding provides for \$375,000 for the pre-cast culverts, \$215,000 for the cofferdam, \$111,000 for the open bridge rail, \$50,000 for utilities and \$100,000 for railroad protection because the railroad tracks run parallel to the bridge. These additional costs combined with increases to percentage-based estimating items (i.e. minor items, inflation, incidentals, contingencies, etc.), resulted in the total estimated cost increase of \$1,078,200.

To accommodate a bridge replacement to meet current safety and design standards and to address a 75-year service life, staff recommends committee approval of an additional \$1,078,200 of LOTCIP funding for the Berlin (L007-0001) project, increasing the funding approval from \$880,800 to \$1,959,000.