

Bridge Identification & Evaluation Protocol for the Development of the 2019-24 TIP

Preservation Candidates (Element Specific Repair)

1. Even though a few years old, CDM's *Local Bridge Preservation Study* is a good starting point. Several bridges identified in that study were programmed or repaired either through the 2016-21 TIP, by county governments, or Bridge NY. Most have not been repaired, and therefore remain candidates, especially those low volume off-system bridges. Recent NYSDOT Bridge Inspection reports should be referenced to either support CDM's recommended treatments or to identify additional treatments. Recent inspection reports can also be used to identify additional bridge candidates.
2. New Federal requirements have required NYSDOT change their bridge inspection protocols. Developing a process to identify and evaluate preservation candidates using the new protocols has been challenging. At this time, NYSDOT staff suggests using the Element Specific Summary Table in the inspection report to help identify candidates. Good candidates are those with multiple elements that fall under the CS-3 and CS-4 categories.
3. Whether drawn from the Local Preservation Study or NYSDOT inspection reports, an engineering assessment will help confirm/identify appropriate preservation treatments and their costs. Typical preservation treatments are described in the NYSDOT document____. In terms of cost, NYSDOT generally defines a preservation project as one where cost is less than half of the cost of replacing the structure.
4. During the last TIP cycle, CDTC used a calibrated algorithm developed by CDM for the Local Bridge Assessment to evaluate the expected change in bridge condition related to element specific bridge repairs. With FHWA requiring a modified approach to condition rating, CDTC's algorithm will need to be modified as well. CDTC staff is currently consulting with NYSDOT staff to develop an interim "sketch-planning" tool to evaluate preservation candidates. We expect that such a tool will mirror the procedure developed by CDM for CDTC during the last TIP cycle.
5. In addition to the information asked for in the PJP, we would need project sponsors to submit a recent inspection report for each candidate bridge project.

Replacement Candidates

1. The Local Bridge Study also identified replacement candidates.
2. Certain bridges categorically classified as structurally deficient may be candidates for replacement or major rehabilitation.
3. Local bridge studies are a third source of replacement candidates.
4. An engineering review should be undertaken to confirm the need for replacement.
5. The evaluation of replacement candidates will follow CDTC's TIP review process.