BRIDGE PRESERVATION REPORT

Identification of Bridge Preservation Candidates, Treatments, and Costs for Locally Owned Capital District Bridges

August 2021



Table of Contents

Introduction	1
Background	1
Bridge Information	
Bridge Condition	
Bridge Work Strategies	
Evaluation of "At-Risk" Bridges	5
Programming Schedule	
Conceptual Construction Cost	6
Conceptual Construction Cost Projections	7
In-Depth Bridge Assessments	8
Evaluation Results	11
Condition Rating Updates	
Summary	

Appendices

Appendix A – Cost Estimate Template

Appendix B – Study Guidelines

Appendix C – Enhanced Bridge Data Spreadsheet

Appendix D – In-Depth Inspection Reports

Appendix E – Estimated Service Life

Appendix F – Condition Rating Calculation



Capital District Local Bridge Preservation Study

INTRODUCTION

The Capital District Transportation Committee (CDTC) serves as the Metropolitan Planning Organization (MPO) for the Capital District of New York State. As the region's MPO, CDTC carries out federal requirements for cooperative transportation planning and programming through implementation of its New Visions 2050 Regional Transportation Plan. The New Visions 2050 plan prioritizes preservation of transportation infrastructure and has identified local bridges as a key network element for further study and investment.

The approach to addressing bridge deficiencies throughout New York State shifted from routine replacement to bridge preservation with the passage of the federal highway funding law MAP-21 and adoption of the New York State Department of Transportation's (NYSDOT) "Preservation First" strategy. Federal and State policies now emphasize the optimization of the existing infrastructure through cost-effective preventive and corrective maintenance activities. This strategy of performing less expensive and shorter life cycle repairs will continue for the foreseeable future due to diminished infrastructure funding at all levels of government.

CDTC commissioned this study of the region's locally owned bridges in order to identify candidates that could benefit from timely preservation strategies. This report chronicles the methods and results from the review of 377 locally owned bridges in Albany, Rensselaer, Saratoga, and Schenectady Counties as well as the Cities of Albany and Schenectady.

BACKGROUND

There are 377 bridges within the CDTC's jurisdiction that are owned and maintained by local municipalities (counties, cities, towns, and villages). According to 2019 and 2020 NYSDOT Bridge Inspection Reports, approximately 189 of the 377 locally owned bridges are either structurally deficient (81) or functionally obsolete (108). The Federal Highway Administration (FHWA) defines bridges as structurally deficient if significant load carrying elements are found to be in poor or worse condition due to deterioration, or the bridge has inadequate load carrying capacity. A bridge which does not meet current standards for managing traffic volume is considered functionally obsolete. In addition, 14 bridges are closed to all traffic and 1 bridge was closed due to construction during the most recent biennial inspection.

CDM Smith conducted a similar study to this one in 2015. In October 2020, CDTC again contracted with CDM Smith to assist in the evaluation of the region's locally owned bridges and to develop work strategies for selected bridges. CDM Smith's evaluation is intended to help CDTC develop a strategic approach to managing infrastructure work for locally owned bridges in its planning area. The format of the 2015 study was used to help identify and prioritize local bridge preservation projects. However, the evaluation methods were updated for the 2020 study to reflect changes to AASHTO and NYSDOT element inspection methods.



BRIDGE INFORMATION

CDM Smith utilized current bridge condition and inventory data from NYSDOT's Bridge Safety Inspection program as the basis for this study. NYSDOT provided access to the 2019 and 2020 data via their Bridge Data Information System (BDIS) and the associated bridge inspection reports generated by their biennial inspection program. The NYSDOT inventory data was transferred to a spreadsheet and combined with the information developed during CDTC's 2015 Local Bridge Preservation Study, prior year bridge data records, and the preservation recommendations developed by CDM Smith to create an updated, sortable local bridge data worksheet.

Prior to the 2016 Inspection cycle, NYSDOT changed the inspection method from a 1-7 rating system to condition states. The current system uses element quantities in the ratings. For instance, primary members are rated based on a per foot basis. If 2 feet of the end of a single beam is in poor condition, the inspector assigns a rating of CS-3 for 2 linear feet. If the rest of the primary members are in good condition, the inspector assigns a CS-1 rating for the remainder of the total length of the primary members. The condition states are defined as follows:

Condition	Condition	General Condition Guideline
State	Type	
CS-1	Good	That portion of the element that has either no deterioration or the
		deterioration is insignificant to the management of the element,
		meaning that portion of the element has no condition based preventive
		maintenance needs or repairs. Areas of an element that have received
		long lasting structural repairs that restore the full capacity of the
		element with an expected life equal to the original element may be
		coded as good condition.
CS-2	Fair	That portion of the element that has minor deficiencies that signify a
		progression of the deterioration process. This portion of the element
		may need condition based preventive maintenance. Areas of the
		element that have received repairs that improve the element, but the
		repair is not considered equal to the original member may be coded as
		fair.
CS-3	Poor	That portion of the element that has advanced deterioration but does
		not warrant structural review. This portion of the element may need
		condition based preventative maintenance or other remedial action.
CS-4	Severe	That portion of the element that warrants a structural review to
		determine the effect on strength or serviceability of the element or
		bridge; OR a structural review has been completed and the defects
		impact strength or serviceability of the element or bridge; OR a
		condition where that portion of the element is no longer effective for
		its intended purpose.
CS-5	Unknown	That portion of the element not assessable due to lack of access.

The previous system for inspecting bridge included a 1-9 element rating. For instance, if the primary member conditions existed above, the inspector would assign a rating to the element



based on the overall condition of the girder system. Several elements were previously rated on a "worst of" condition. For instance, if 4 bearings are in good condition and 1 bearing was in poor condition, the inspector would assign a rating based on the bearing. The 1-9 rating system is defined as follows:

Condition	General Condition Guideline
Rating	
9	Condition and/or existence unknown
8	Not applicable/element does not exist
7	New condition or no deterioration
6	Used to shade between ratings of 5 and 7
5	Minor deterioration but functioning as originally designed
4	Used to shade between ratings of 3 and 5
3	Serious deterioration or not functioning as originally designed
2	Used to shade between ratings of 1 and 3
1	Totally deteriorated or in failed condition

Currently, NYSDOT still uses the Condition Ratings of 1-7 to calculate the Computed Condition Rating (CCR) for each bridge. The general calculation is the same as it was prior to 2016, but NYSDOT has developed a system to convert the current Condition States, based on percentages of deteriorated elements, to the 1-7 rating system before entering this data into the CCR formula. Attempts have been made to obtain the conversion from NYSDOT to no avail. CDTC and CDM Smith worked collaboratively to attempt to replicate the NYSDOT CCR. The formula that was develops is within approx. 20% of the NYSDOT values.

BRIDGE CONDITION

CDM Smith conducted the assessment process by making a thorough review of the bridge inspection reports, combined with selective site visits, to evaluate the bridges in the study area. Next, the type of preservation treatment and timing was identified for each bridge. The evaluation lead to development of a list of bridges requiring repair for each county. This list was not based solely on the General Recommendation or Computed Condition Ratings in the bridge inspection reports. Bridges were instead prioritized using engineering judgment regarding the existing condition of individual bridge components.

The first phase of the evaluation involved a review of existing structural conditions. The information contained within the NYSDOT Bridge Inspection Reports were reviewed for all locally owned bridges within Albany, Rensselaer, Saratoga, and Schenectady Counties as well the Cities of Albany and Schenectady. CDM Smith also reviewed the bridge inventory information available from NYSDOT's BDIS database.

BRIDGE WORK STRATEGIES

The bridge inspection reports and other information were used to develop a repair work strategy for all bridges with individual elements rated CS-3 or lower. Work strategies include:



- Full Replacement
- Major Rehabilitation
- Minor Rehabilitation
- Element Specific Repair
- Preventative Maintenance

The Major Rehabilitation strategy can be further subdivided into a Superstructure Replacement and Deck Replacement repair treatment categories. Element Specific Repair and Preventative Maintenance strategies can also be subdivided into several treatment categories such as Paint – Complete, Replace Bearings, Concrete Patch Repairs, etc. Refer to Appendix A for a detailed list of repair treatments.

Full Replacement

A Full Replacement strategy involves the replacement of the superstructure and substructures of the bridge because the substructures are deteriorated beyond repair, cause a constriction of the stream channel and have associated significant scour problems, and/or other factors. It was assumed that all bridges with a Computed Condition Rating of 3.5 or less would require full replacement.

Major Rehabilitation

A Major Rehabilitation strategy consists of the replacement of the deck and/or primary members because they are beyond repair due to deterioration, damage, age or other factors.

Minor Rehabilitation

A Minor Rehabilitation strategy includes limited repair of structural elements and repair or replacement of non-structural elements. The repair of these specific items should raise the Computed Condition Rating above a 5.5.

Element Specific Repair

An Element Specific Repair strategy consists of limited repair to structural or non-structural elements. The repair of these specific items should raise the Computed Condition Rating above a 5.5.

Preventative Maintenance

A Preventative Maintenance Strategy consists primarily of preventive maintenance measures which can be taken to minimize potential future damage and/or deterioration of the bridge.

All the selected bridges were evaluated using a set of guidelines developed during the review process. The guidelines are intended to provide a uniform standard so that all bridges are evaluated on the same basis. The guidelines were updated based on the new condition state ratings as needed. The review guidelines are included in Appendix B.

Several factors were used to determine the work strategy for each bridge in the study. Factors such as the number of deteriorated elements, type of element, significance or extent of deterioration, and the reviewer's engineering judgement were used to develop a work strategy.

- Bridge Replacement: A bridge with four (4) or more structural elements, such as structural deck, primary members and abutment stem, rated CS-3 or lower



- Superstructure Replacement (Major Rehabilitation): A bridge with poor structural deck and primary member ratings but with substructures in fair to good condition and no significant scour concerns
- Deck Replacement (Major Rehabilitation): A bridge with a poor structural deck rating, but primary members and substructures in fair to good condition
- Minor Rehabilitation: Recommended for a bridge where there were three or four specific elements which required repair. The specific elements generally were non-structural deficiencies or limited structural repairs such as performing structural repairs to a girder end.
- Element Specific: Recommended for a bridge requiring only one or two specific elements which needed repair. As with the minor rehabilitation work strategy, specific elements were generally non-structural deficiencies or limited structural repairs. Element specific repair recommendations which would outlast the structure as a whole were avoided.
- Preventative Maintenance: Recommended for a bridge which had one or two elements in fair condition. This work strategy was also assigned to a bridge when a preventative maintenance measure, such as sealing the deck, could safeguard a bridge in good condition.

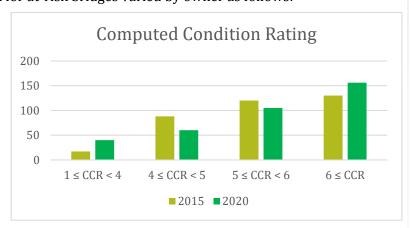
EVALUATION OF "AT-RISK" BRIDGES

The evaluation also included a review of bridges considered to be "at-risk" for requiring immediate repair or replacement. At-risk bridges are defined as bridges with a Red or Yellow Condition Flag. Red Condition Flags are issued during biennial safety inspections and indicate that there is a primary structural component of the bridge which has failed or has the potential to fail before the next biennial bridge inspection. Yellow Condition Flags are issued during biennial safety inspections and indicate that there is a primary structural component of the bridge which has the potential to become a Red Condition Flag before the next biennial bridge inspection.

In addition, bridges with prestressed concrete primary members rated CS-3 or lower or bridge that have been posted for loads were defined as at-risk. Any bridge the reviewer deemed to have a significant structural problem which poses an imminent risk of closure or capacity reduction was also included as an at-risk bridge.

Computed condition rating criteria for at-risk bridges varied by owner as follows:

- Schenectady County and City of Schenectady: Computed Condition Rating < 6.0
- Albany County, City of Albany and Saratoga County: Computed Condition Rating < 5.0
- Rensselaer County:
 Computed Condition
 Rating < 4.0





The City of Schenectady requested that BIN 2203110 be defined as an at-risk bridge. At-risk bridges are specifically identified in the enhanced bridge data spreadsheet. A total of 75 at-risk bridges were identified during the evaluation. A work strategy and program timing were also developed for all at-risk bridges.

PROGRAMMING SCHEDULE

A recommended program timing or schedule was assigned to each bridge during the evaluation. The timing indicates the period within which the work strategy for the bridge should be undertaken in order to achieve the greatest benefit from the preservation strategy. Program timing categories include Immediate, 2 years, 5 years, and 10 years. The indicated timing is based on the severity of deterioration, the significance of the deterioration in regard to the overall structure, acceleration of deterioration, and the reviewer's engineering judgment. Bridges with major structural elements which rate CS-3 or less generally require repairs within 2 years. As an example, a bridge with a primary member condition rating of CS-3 would warrant repair sooner than a bridge with a non-structural element condition rating of CS-3. There is also the possibility that certain types of deterioration will accelerate if left untreated. For instance, when an inspection report notes significant increased scour since the last inspection at a wingwall which lacks stone fill protection. Left untreated, the wingwall footing can quickly become undermined and potentially fail during a flood event. The placement of stone fill at the wingwall would alleviate the situation. A bridge in good condition may have a recommended preventative maintenance work strategy to be implemented immediately to prolong the service life of the structure. A bridge with structural elements in fair condition and/or severely deteriorated nonstructural elements would warrant repair within 5 years. Bridges in good condition may not require repair of an element until 10 years.

In some instances, the structure as a whole may be on the borderline of poor condition and near the end of its service life, and not warrant repair at all. The structure would be left as is and replaced in 10 years after the remaining service life has been spent. Program timing should be weighed carefully when considering prioritization of projects.

From the list of 75 at-risk bridges, each Owner chose which bridges they wished to have CDM Smith perform in-depth field visits on. The in-depth visits consisted of verification of the extent of repairs required, confirm the findings from the previous Biennial Inspection Report, identify any additional areas requiring repairs, confirm the work strategy, review the initial cost estimate, and identify site specific conditions which may influence construction and the related costs. Site specific conditions included utilities, Right-of-Way, adjacent residences or business, wetlands or endangered species in the vicinity of the bridge, etc.

CONCEPTUAL CONSTRUCTION COST

A 2020 conceptual construction cost was developed for each bridge which had an in-depth inspection performed. Costs for work strategies and repair treatments were determined based on 2019/2020 NYSDOT unit cost data available on NYSDOT's website and bid information CDM Smith collected on recent projects within the Capital District. The pricing information available for this study was generated prior to the COVID pandemic. Therefore, based on recent bid pricing increases observed to date during the 2021 construction season, material costs can be expected



to increase by approximately 10% above the historic bid pricing used for the in-depth work strategies. Rehabilitation/repair work item cost guidelines were developed from the bid pricing data for various types of work to streamline development of individual bridge conceptual construction cost estimates. The cost guidelines are included in Appendix A. These guidelines ensure that costs for work strategies and treatments are applied uniformly and consistently over the evaluation study group.

Work strategy and repair treatment costs are generally based on a 32-foot-wide bridge with a span of up to 100 feet. These bridge dimensions were selected as they represent a typical bridge size among the population of locally owned Capital District bridges. The conceptual cost is modified if the bridge has multiple spans, a significantly larger span or width, and/or higher traffic volume. A cost for work zone traffic control and working over a railroad (where applicable) are also included in the guidelines. Costs for engineering design, construction inspection, inflation to the year of construction, significant environmental mitigation efforts, and right-of-way acquisition are also included in the 2020 conceptual construction cost for each bridge.

CONCEPTUAL CONSTRUCTION COST PROJECTIONS

This study did not include development of individual construction cost estimates for repair work strategies for every locally owned bridge requiring repairs. Instead, the study focused on providing a higher level of detail for the bridges selected for in-depth assessment. To support CDTC's goal of identifying total bridge preservation program costs for locally owned bridges, CDM Smith utilized the conceptual construction costs developed from the in-depth assessments to develop projected average construction costs for each type of bridge preservation work strategy, as follows:

- Full Replacement \$2.0M
- Major Rehabilitation \$1M
- Minor Rehabilitation \$500k
- Element Specific Repairs \$200k

These average project construction costs can be used by CDTC to determine projected total program funding needs to address the deterioration of the full locally owned bridge inventory. It should be understood that the projected average construction costs are based on a small sample size of projects evaluated as part of the in-depth assessments, and do not include engineering design or right of way acquisition costs.

Using this approach, the total funding need to address replacement and repair costs for the 274 locally owned bridges requiring repair is approximately \$168M, with bridge preservation-only projects making up approximately \$110M of this total. By comparison with the 2015 Local Bridge Preservation-only costs have increased





by approximately \$30M (was \$80.5M in 2015). This increase in total repair cost is attributed in part to the more detailed bridge element condition information that results from the AASHTO Element-level inspection methods now being used by NYSDOT to document bridge conditions.

IN-DEPTH BRIDGE ASSESSMENTS

For the second phase of the evaluation, CDM Smith completed site visits on a select sampling of bridges within Albany and Schenectady Counties and the Cities of Albany and Schenectady to further refine the scope of work for each priority bridge. South Col Engineering completed site visits on a select sampling of bridges within Saratoga County. The purpose of the In-Depth field visits was to confirm the work strategies for the individual bridges, determine any additional areas requiring repairs, review the environmental, Right-of-Way and other impacts which could affect the construction activities and the subsequent construction costs. Final evaluation results were verified or updated based on the field reviews. Field note summaries and photo logs are included in Appendix F of this report.

ALBANY COUNTY

Field visits were made to five (5) bridges in Albany County. The bridges that were evaluated included BINs 3301020, 3301040, 3301500, 3301580 and 3302920. Tony Fernandez from Albany County joined CDM Smith for the field visit at each County Owned bridge. A construction cost estimate and field review sheet were created for BIN 2256840, owned by the City of Albany, but no field visit was conducted due to confined space entry being required. The field visits resulted in the following additional work:

- BIN 3301020: replacement of the non-ratable joints at both abutments
- BIN 3301040: clean scuppers on bridge deck, replace bottom rail of bridge rail, seal longitudinal joint along bottom of both curbs, repoint masonry joints at wingwalls and headwalls
- BIN 3301500: additional substructure repairs, joint replacement not required (Photo 1)
- BIN 3301580: additional deck repairs, approach asphalt pavement reconstruction
- BIN 3302920: replace bridge rail at both fascias







Photo 1: BIN 3301500 - Looking Towards Left Across Top of Begin Joint

Photo 2: BIN 3301580 - Looking Towards Left at End Right (Other Locations Similar)

RENSSELAER COUNTY

No bridges slated for in-depth evaluation were identified by Rensselaer County.

SARATOGA COUNTY

Field visits were made to six (6) bridges in Saratoga County. The bridges that were evaluated include BIN 2202830, 2202970, 3304210, 3304520, 3304560 and 3304790. No County representative joined South Col Engineering for the field visits at these bridges. The field visits resulted in the following additional work:

- BIN 2202830: additional substructure repairs
- BIN 2202970: approach sidewalk repairs, approach asphalt pavement reconstruction, additional substructure repairs
- BIN 3304210: reset curbs on both bridge fascias, approach guide rail replacement
- BIN 3304520: additional substructure repairs
- BIN 3304560: superstructure replacement (Refer to Photo 3), substructure repairs, stream bank armoring



- BIN 3304790: additional superstructure and substructure repairs (Refer to Photo 4), stream bank armoring, approach rail replacement, wearing surface replacement, approach slab reconstruction



Photo 3: BIN 3304560 - Looking Towards End Left at Right Face of Girder 6



Photo 4: BIN 3304790 – Looking Towards End at Underside of Stone Masonry Arch (Steel Plate Arch in Background)

SCHENECTADY COUNTY

Field visits were made to one (1) bridge in Schenectady County and one (1) bridge in the City of Schenectady. The bridges that were evaluated include BIN 2203110 in the City of Schenectady and BIN 3050510 in Schenectady County. Chris Wallen from the City of Schenectady accompanied CDM Smith during the field visit for BIN 2203110. Paul Sheldon from Schenectady County joined



CDM Smith for the field visit to BIN 3050510. The field visits resulted in the following additional work:

- BIN 2203110: no additional work
- BIN 3050510: additional substructure repairs, removal of large trees from stream channel



Photo 5: BIN 2203110 - End Diaphragm at Begin Abutment - Holes in Web



 $Photo\ 6:\ BIN\ 3050510-Looking\ Right\ From\ Bridge\ at\ Downstream\ Channel\ \textbf{EVALUATION}\ \textbf{RESULTS}$

The results of the evaluation have been tabulated and presented in spreadsheet format in order to document the bridge management recommendations. The spreadsheet is intended to present evaluation information in sufficient detail to aid the CDTC Planning Committee in identifying and prioritizing projects for inclusion in their funding program. The spreadsheet contains basic information such as BIN, location and description of the bridge, AADT and current condition



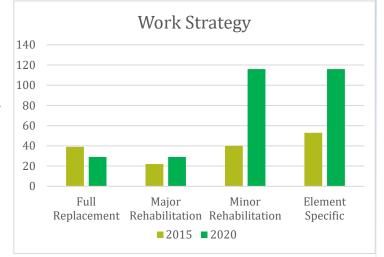
rating along with evaluation information such as recommended work strategy and repair treatments, 2020 conceptual cost for the in-depth bridges which had a field visit, and program timing. The spreadsheet is easily searchable and can be sorted by any category desired. A print of the enhanced bridge data spreadsheet is included in Appendix C. The spreadsheet also has the ability for the user to create bridge fact sheets for each bridge they select which includes only the most pertinent information for each bridge in a different format that can be more easily presented to the general public. The needs and recommendations of a particular bridge can be easily ascertained by referring to its respective bridge fact sheet. Sample bridge fact sheets are included in Appendix E. These documents will assist the CDTC in developing a strategic approach to manage infrastructure work for locally owned bridges that is consistent with NYSDOT's Preservation First strategy. It will also serve as a communication tool to clearly present the recommendations to municipalities and the public in the CDTC's planning area.

A recommended work strategy was determined for all 290 bridges in the study group which had elements with a CS-3 or CS-4 rating during the most recent biennial inspection. Refer to the Bridge Work Strategy section for the methodology of classifying work strategies. All the bridges were reviewed between December 2020 to March 2021 based on 2019 and 2020 biennial inspection reports. Federal aid eligible and NHS bridges were given first priority for review during the evaluation. The following summarizes the work strategies:

- Closed to Traffic or have not been inspected under the NYSDOT inspection program within the past 6 years and were excluded from further analysis – 21
- Currently on the TIP and scheduled for repair or replacement and were excluded from further analysis – 17
- Replacement or Non-Preservation work strategy recommended: 29
- Major Rehabilitation: 29 (16 superstructure replacements and 13 deck replacements)

- Minor Rehabilitation: 116

- Element Specific: 116



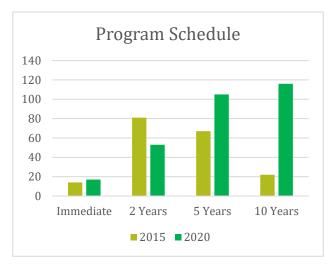
Refer also to Figure 2. See Appendix D for additional tables which breakdown the number of bridges in relation to Federal Aid status.



The bulk of the bridges are recommended for programing within 2 to 5 years. A recommendation

for immediate repair was given to 17 bridges. A 2-year repair period is recommended for 53 bridges, a 5-year repair period is recommended for 105 bridges, and 116 bridges are recommended for a 10-year repair period.

Due to changes in the inspection methods between the 2015 and 2020 studies, several bridges require additional work that could not be thoroughly identified during the 2015 study. For instance, if a deck previously had 1% of its area spalled, it could potentially have been rated '5' which would require no note or photo in



the inspection report. However, with the new condition state rating system, that 1% of deck is identified and documented. Subsequently, that work is included even though conditions may have existed during the previous study.

The 2020 conceptual construction costs were estimated for the bridges that in-depth varied greatly for each work strategy. The Replacement work strategy ranges in cost between \$0.30 and \$4.3 million. The cost ranged from \$0.60 to \$2.0 million for the Major Rehabilitation work strategy. The Minor Rehabilitation work strategy ranges from \$0.10 to \$1.2 million. The Element Specific work strategy ranges in cost between \$0.30 and \$1.1 million. The cost ranged from \$0.03 to \$0.6 million for the Preventative Maintenance work strategy.

See Appendix D for a more detailed breakdown of the results based on Federal Aid eligibility in table form.

CONDITION RATING UPDATES

CDTC requested that we try to replicate the Computed Condition Rating (CCR) which NYSDOT uses to evaluate the health of their bridges. The general calculation is the same as it was prior to 2016, but NYSDOT has developed a system to convert the current Condition States, based on percentages of deteriorated elements, to the 1-7 rating system before entering this data into the CCR formula. Attempts have been made to obtain the conversion from NYSDOT to no avail. CDTC and CDM Smith worked collaboratively to attempt to replicate the NYSDOT CCR. The formula that was develops is within approx. 20% of the NYSDOT values. The calculations are included in the spreadsheet. Increased CCR is often used to perform a cost-benefit analysis and determine which bridges with the Owner's population should be targeted for replacements, rehabilitations, or other work. As an example, a bridge undergoing bearing replacement would be assumed to have its abutment and/or pier bearing ratings increased to CS-1 reflecting their new condition after the project is complete. The worksheet incorporates the updated rating into the CCR calculation and provides the predicted condition rating based on the planned repairs. In this manor, CDTC will be able to see the direct impact of future repairs on targeted bridge candidates based on the current rating system. See Appendix F additional information.

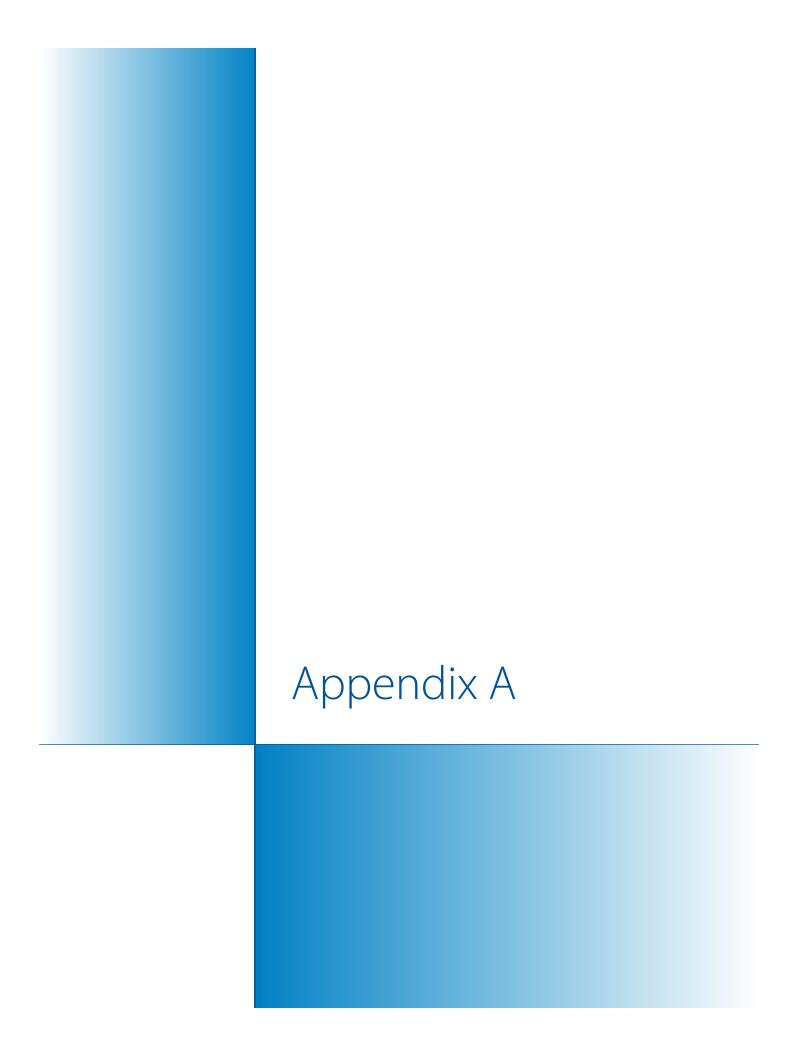


SUMMARY

The purpose of this study is to assess the condition of the 377 local bridges in CDTC's jurisdiction and provide recommendations on potential preservation strategies that will assist the CDTC in making programming decisions when selecting bridge preservation projects for inclusion in the CDTC TIP. The primary focus of the study is to develop a work strategy, programming schedule and estimated construction cost for the 290 bridges with elements rated CS-3 or CS-4. The condition assessment is based on the latest NYSDOT Bridge Inspection Reports. The bridges were sorted into four (4) work strategies consisting of Replacement, Major Rehabilitation, Minor Rehabilitation and Element Specific. Programming consists of an Immediate, 2-Year, 5-Year or 10-Year schedule. Selective site visits were made to a few bridges in each county to verify their condition and confirm the recommended work strategy.

The results of the evaluation have been tabulated and presented in spreadsheet format in order to document the bridge management recommendations. The spreadsheet contains basic information about the bridges along with the study results. The bridge fact sheets include only the most pertinent information for each bridge in a different format that can be more easily presented to the general public. The study determined that 40% of the bridges fall into the Element Specific work strategy and 40% fall into the Minor Rehabilitation work strategy. Most (40%) of the bridges are recommended for a 10-Year programing schedule.



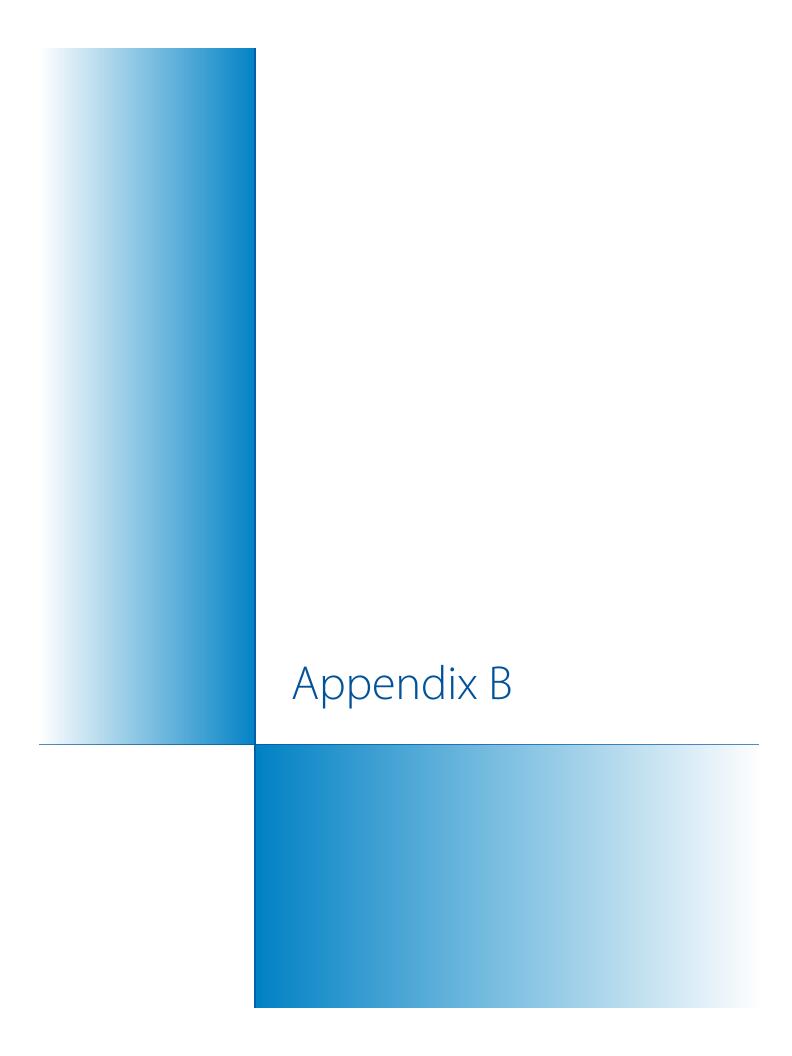


PRELIMINARY ENGINEER'S ESTIMATE (TYPE OF WORK)

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BIN XXXXXXX
FEATURE CARRIED
Over
FEATURE CROSSED
TOWN
COUNTY



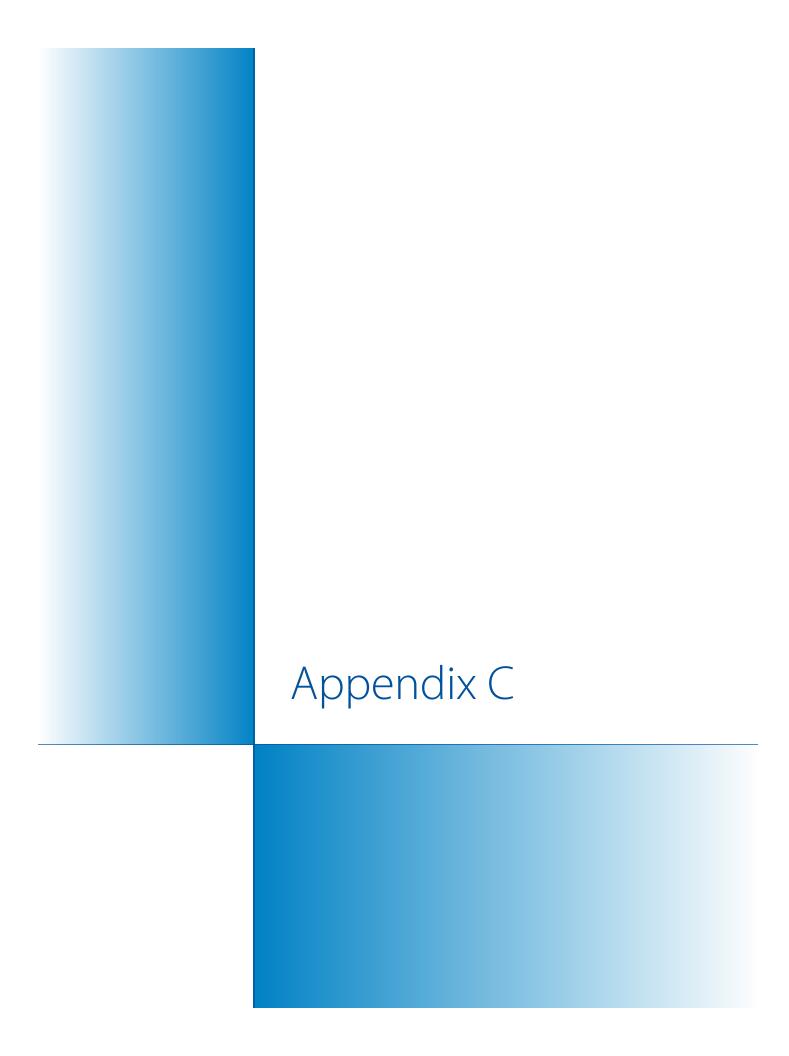
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174 0.00001 Structural Steel Painting: Localized SF \$50.00 0 50 50 578 1.20001 Cleaning Suppopers EA \$250.00 0 50 578 1.20001 Sib Deconstruction Concrete, Class E - Type 9 Friction SF \$50.00 0 50 50 578 1.20001 Sib Deconstruction Concrete, Class D or E SF \$1.200 0 50 50 50 50 50 50	573.010001	Structural Steel Painting Field Applied - Total Removal	LS	\$180,000.00	0		
Cleaning Supports EA \$250.00 0 \$0 \$0 \$0 \$0 \$0 \$0	574.020001	Structural Steel Painting: Overcoating	LS	\$90,000.00	0	\$0	
\$781.10901 Overlay Concrete, Class E - Type 9 Friction \$9 \$6.00 0 \$0 \$50 \$787.130001 Sub Reconstruction Concrete, Class E - Type 9 Friction \$9 \$12.00 0 \$0 \$50 \$787.130001 \$80 \$80 \$80 \$80 \$90				·			
Signature Sign		0 11					
Removal of Structural Concrete Sp. 50,000 Sp. 580,000 Sp. 580,000 Sp. 580,000 Sp. 581,000 Sp. 581,00							
	580.04						
S82.05 Removal of Structural Concrete - Replacement with Class A Concrete CY \$6,500.00 0 \$0 \$0 \$0 \$0 \$0 \$0	581.01	11			0		
SE2.06 Removal of Structural Concrete - Replacement with Class D Concrete SF \$20.00 0 \$0 \$0 \$0 \$0 \$0 \$0	581.02	Removal of Cement Concrete Overlay (Bridge)	SF	\$1.25	0	\$0	
SECUTION Removal of Structural Lifting Operations - Type A Secution S	582.05	·			0		
SES.01 Structural Lifting Operations - Type A EA \$5,500.00 0 \$0 \$0 \$0 \$0 \$0 \$0	582.06	·		· ·			
Diffling and Grouting Bolts or Reinforcing Bars EA \$50.00 0 \$0 \$0 \$88.0201 Bridge Railling Removal and Disposal LF \$60.00 0 \$0 \$0 \$88.0201009 Rehabilitation of Bridge John (Tsystem's - Repair Type XX LF \$270.00 0 \$0 \$0 \$59 \$595.50000018 Sheet-Applied Waterproofing Membrane \$F \$50.00 0 \$0 \$0 \$0 \$0 \$0 \$0				· ·			
Bridge Railing Removal and Disposal LF \$60.00 0 \$0 \$0 \$0 \$0 \$0 \$0							
S88.02010109 Rehabilitation of Bridge Joint Systems - Repair Type XX LF \$270.00 0 \$0 \$0 \$95 \$50000018 Sheet-Applied Waterproofing Membrane \$F \$5.00 0 \$0 \$0 \$0 \$0 \$0 \$0				·			
Sept-Applied Waterproofing Membrane SF \$5.00 0 \$0				·			
Box Beam Guide Railing LF \$60.00 0 \$0 \$0 \$0 \$0 \$0 \$0	595.50000018					·	
Removing & Disposing Corrugated Beam Guide Railling LF \$6.00 0 \$0	606.10		LF	\$60.00	0		
Basic Workzone Traffic Control LS \$18,000.00 0 \$0 \$0 \$0 \$0 \$0 \$0	606.120201						
Stone Filling (Heavy) CY \$95.00 0 \$0 \$0 \$0 \$0 \$0 \$0	606.71			·		·	
Cleaning Culverts With Span of More Than 50 in. LF \$60.00 0 \$0 \$0 \$0 \$0 \$0 \$0	619.01						
Clean, Grade and Shape Existing Roadside Section						·	
Survey Operations LS \$7,500.00 0 \$0 \$0 \$0 \$0 \$0 \$0				· ·			
Engineer's Field Office - Type 1	625.01	<u> </u>		'			
Maintenance Cleaning and Washing of Bridges	637.11						
Field Change Payment (FCP) DC \$1.00 0 \$0 \$0 \$0 \$0 \$0 \$0	641.91010011	· ·			0		
Field Change Payment (FCP) DC \$1.00 0 \$0 \$0 \$0 \$0 \$0 \$0					Subtotal 1	\$0	
Mobilization (4%)	697.03	Field Change Payment (FCP)	DC	\$1.00	0	\$0	
Contingency (25%) LS	699.040001	Mobilization (4%)	LS	\$0	1	\$0	
Total: \$0 TOTAL ESTIMATED CONSTRUCTION COSTS: \$0 ROW LS \$0 1 \$0 Design Fees LS \$0 1 \$0 Construction Inspection LS \$0 1 \$0		Contingency (25%)	LS	\$0		· ·	
ROW LS \$0 1 \$0 Design Fees LS \$0 1 \$0 Construction Inspection LS \$0 1 \$0		1		·	-		
Design Fees LS \$0 1 \$0 Construction Inspection LS \$0 1 \$0		TOTAL ESTIMATED CONST	ructio	ON COSTS:		\$0	
Design Fees LS \$0 1 \$0 Construction Inspection LS \$0 1 \$0		ROW	LS	\$0	1	\$0	
		Design Fees	LS	\$0	1	\$0	
TOTAL ESTIMATED BRIDGE COSTS: \$0		Construction Inspection	LS	\$0	1	\$0	
		TOTAL ESTIMATE	D BRID	GE COSTS:		\$0	



CDTC BRIDGE STUDY GUIDELINES

General work strategy guidelines used to determine the repairs for the bridges include:

- Placement of stone fill was recommended for bridges where the stone fill was washed away or when lacking stone fill. The placement timeframe was based on the existing scour/undermining damage, existing structural flags, and the progression of further damage.
- Paint total removal with a Class A containment system was recommended for bridges with >25%
 Paint Element Ratings of CS-3 or CS-4. A paint overcoat with Class B containment system was
 recommended for bridges with <25% Paint Element Ratings of CS-3 or CS-4. Localized painting
 with a Class B containment system was generally recommended on bridges where the joints
 were leaking and the paint failed at only the beam ends.
- Joint replacement within a 2-year period was recommended for any bridge with actively leaking deck joints.
- Replacement of the asphalt wearing surface was recommended where the asphalt pavement had not been replaced recently and was cracked and/or raveling.
- A recommendation to seal the deck within a 2-year period was given to concrete decks with integral wearing surfaces which were cracked or were constructed between >10 years ago.



Green Highlight Indicates In-Depth Inspection Performed

BIN	County	Political Unit	Primary Owner	Maintenance Responsibility	Year Built	Year of Last Major	2020 In-Depth	Work Strategy	Preservation Eligible	Treatment 1	2020 Conceptual Construction Cost	TIP Funding	Program Schedule	Comments
1038660	1 - County 1 - ALBANY	0187 - Town of COLONIE	30 - County	Primary 30 - County	2002	Rehabilitation 8888		Minor Rehab					(years) 5 Yrs	
1053380	1 - County 1 - ALBANY	2001 - City of ALBANY	42 - City	42 - City	1968	2008		Element Specific					10 Yrs	
	4 - County 4 - RENSSELAER	2057 - City of TROY	42 - City	72 - Other	1965	8888		Full Replacement					2 Yrs	CCR < 4.0
	5 - County 5 - SARATOGA 4 - County 4 - RENSSELAER	2029 - City of MECHANICVILLE 2057 - City of TROY	42 - City 42 - City	42 - City 42 - City	1982 1886	2016 1989		Element Specific Minor Rehab					10 Yrs 5 Yrs	Bank protection (concrete wall) repair
	4 - County 4 - RENSSELAER	2057 - City of TROY	42 - City	42 - City	1934	8888		Minor Rehab					5 Yrs	
	4 - County 4 - RENSSELAER	2057 - City of TROY	42 - City	42 - City	1875	8888		Element Specific					10 Yrs	Remove fallen log from stream
	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	2057 - City of TROY 2057 - City of TROY	42 - City 42 - City	42 - City 42 - City	1985 1875	8888 8888		Minor Rehab Full Replacement					5 Yrs 2 Yrs	CCR < 3.5
	4 - County 4 - RENSSELAER	2047 - City of RENSSELAER	42 - City	42 - City	1929	1985		Minor Rehab					5 Yrs	CON SUIZ
	1 - County 1 - ALBANY	0068 - Town of BERNE	40 - Town	40 - Town	1978	2010		Element Specific					10 Yrs	
	1 - County 1 - ALBANY 1 - County 1 - ALBANY	0581 - Town of NEW SCOTLAND 0071 - Town of BETHLEHEM	40 - Town 30 - County	40 - Town 30 - County	2014 2014	8888 8888		No Work Needed Element Specific					N/A 10 Yrs	
	1 - County 1 - ALBANY	2001 - City of ALBANY	42 - City	42 - City	1980	2018		Element Specific					10 Yrs	
2200300	1 - County 1 - ALBANY	2001 - City of ALBANY	42 - City	42 - City	1905	8888		Closed	Yes				N/A	
	1 - County 1 - ALBANY	2009 - City of COHOES	42 - City	42 - City	2010	8888		Element Specific					10 Yrs	
	1 - County 1 - ALBANY 1 - County 1 - ALBANY	2009 - City of COHOES 2009 - City of COHOES	42 - City 42 - City	42 - City 42 - City	1994 1986	8888 8888		Minor Rehab Element Specific					5 Yrs 10 Yrs	
	4 - County 4 - RENSSELAER	0067 - Town of BERLIN	40 - Town	40 - Town	1975	8888		Minor Rehab					Immediate	YSF Abutment UM
	4 - County 4 - RENSSELAER	0067 - Town of BERLIN	40 - Town	40 - Town	1940	8888		Full Replacement					Immediate	YSF Cracked Welds (Truss), CCR < 4.0 and PL = 10T
	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	0067 - Town of BERLIN 0067 - Town of BERLIN	40 - Town 30 - County	40 - Town 30 - County	1935 2015	1991 8888		Minor Rehab No Work Needed					Immediate N/A	YSF Begin Abutment UM, YSF End Abutment UM
	4 - County 4 - RENSSELAER	0099 - Town of BRUNSWICK	40 - Town	40 - Town	2013	8888		No Work Needed					N/A	
	4 - County 4 - RENSSELAER	0099 - Town of BRUNSWICK	30 - County	30 - County	1990	8888		Minor Rehab					5 Yrs	
	4 - County 4 - RENSSELAER	0099 - Town of BRUNSWICK 0099 - Town of BRUNSWICK	40 - Town 40 - Town	40 - Town	1940	8888		Full Replacement					2 Yrs	CCR < 4.0
	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	0249 - Town of EAST GREENBUSH	40 - Town 40 - Town	40 - Town 40 - Town	2015 1938	8888 1991		Full Replacement					10 Yrs Immediate	YSF Web SL, CCR < 4.0 and PL = 18T
2201620	4 - County 4 - RENSSELAER	0398 - Town of HOOSICK	40 - Town	40 - Town	2014	8888		Element Specific					10 Yrs	
	4 - County 4 - RENSSELAER	0398 - Town of HOOSICK	40 - Town	40 - Town	2003	8888		Element Specific					10 Yrs	
	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	0398 - Town of HOOSICK 0398 - Town of HOOSICK	40 - Town 40 - Town	40 - Town 40 - Town	2010 1920	8888 1990		Element Specific Full Replacement					10 Yrs Immediate	RSF Load Posting, YSF Stringer Web SL, YSF Stringer Flange SL, YSF Abutment UM, CCR < 4.0 and PL = 15T
	4 - County 4 - RENSSELAER	0398 - Town of HOOSICK	40 - Town	40 - Town	1900	8888		Closed	Yes				N/A	22 2
2201670	4 - County 4 - RENSSELAER	0595 - Town of NORTH GREENBUSH	40 - Town	40 - Town	2013	8888		Element Specific					10 Yrs	
	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	0656 - Town of PETERSBURG 0656 - Town of PETERSBURG	40 - Town 40 - Town	40 - Town 40 - Town	1948 1922	8888 8888		Minor Rehab Closed					5 Yrs N/A	Jack arch
	4 - County 4 - RENSSELAER	0656 - Town of PETERSBURG	40 - Town	40 - Town	1947	1989		Major Rehab	Sup	erstructure Replacement			2 Yrs	Jack attri CCR < 4.0
	4 - County 4 - RENSSELAER	0656 - Town of PETERSBURG	40 - Town	40 - Town	1948	8888		Minor Rehab		·			5 Yrs	Remove fallen tree from stream, CCR < 4.0
	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	0656 - Town of PETERSBURG 0656 - Town of PETERSBURG	40 - Town 40 - Town	40 - Town 40 - Town	1985 2016	8888 8888		Minor Rehab No Work Needed					5 Yrs N/A	PS Box Beams Rated CS-3/CS-4
	4 - County 4 - RENSSELAER	0656 - Town of PETERSBURG	40 - Town	40 - Town	1988	8888		Minor Rehab					5 Yrs	Steel culvert repair, bank protection (concrete lagging) replacement
	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN	40 - Town	40 - Town	1960	8888		Major Rehab	Sup	erstructure Replacement			2 Yrs	Superstructure replacement, replace pedestals
	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN	40 - Town 40 - Town	40 - Town 40 - Town	1910 1910	2016 2014		Full Replacement Minor Rehab					2 Yrs 5 Yrs	CCR < 4.0
	4 - County 4 - RENSSELAER	1238 - Village of HOOSICK FALLS	40 - Town	40 - Town	2004	8888		Element Specific					10 Yrs	
2201000														
2201820	4 - County 4 - RENSSELAER	0741 - Town of SAND LAKE	40 - Town	40 - Town	1920	8888		Full Replacement	Yes				2 Yrs	CCR < 3.5
2201820 2201840	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN	40 - Town	40 - Town	1950	1998		Full Replacement	Yes				2 Yrs	CCR < 3.5, YSF Web SL
2201820 2201840 2201850	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN	40 - Town 40 - Town	40 - Town 40 - Town	1950 1991			Full Replacement Element Specific	Yes					CCR < 3.5, YSF Web SL Headwall repair
2201820 2201840 2201850 2201860 2201870	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU	40 - Town 40 - Town 30 - County 40 - Town	40 - Town 40 - Town 30 - County 40 - Town	1950 1991 1927 1950	1998 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement	Yes				2 Yrs 10 Yrs 2 Yrs 2 Yrs	CCR < 3.5, YSF Web SL
2201820 2201840 2201850 2201860 2201870 2201880	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL	40 - Town 40 - Town 30 - County 40 - Town 40 - Town	40 - Town 40 - Town 30 - County 40 - Town 40 - Town	1950 1991 1927 1950 2006	1998 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed	Yes				2 Yrs 10 Yrs 2 Yrs 2 Yrs N/A	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5
2201820 2201840 2201850 2201860 2201870 2201880 2201890	4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER 4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU	40 - Town 40 - Town 30 - County 40 - Town	40 - Town 40 - Town 30 - County 40 - Town	1950 1991 1927 1950	1998 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement	Yes				2 Yrs 10 Yrs 2 Yrs 2 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch
2201820 2201840 2201850 2201860 2201870 2201880 2201890 2201900 2201910	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 10566 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL 0676 - Town of POESTENKILL 0676 - Town of POESTENKILL	40 - Town 40 - Town 30 - County 40 - Town 40 - Town 40 - Town 40 - Town 40 - Town	40 - Town 40 - Town 30 - County 40 - Town 40 - Town 40 - Town 40 - Town 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific	Yes				2 Yrs 10 Yrs 2 Yrs 2 Yrs N/A 5 Yrs 5 Yrs 10 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5 PS Box Beams Rated CS-3/CS-4
2201820 2201840 2201850 2201860 2201870 2201880 2201890 2201900 2201910 2201920	4 - County 4 - RENSSELAER 6 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL	40 - Town 40 - Town 30 - County 40 - Town 40 - Town 40 - Town 40 - Town 40 - Town 40 - Town 40 - Town	40 - Town 40 - Town 30 - County 40 - Town 40 - Town 40 - Town 40 - Town 40 - Town 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006 1986	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific Element Specific	Yes				2 Yrs 10 Yrs 2 Yrs 2 Yrs N/A 5 Yrs 5 Yrs 10 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5 PS Box Beams Rated CS-3/CS-4 Bank protection (masonry wall) reconstruction
2201820 2201840 2201850 2201860 2201870 2201890 2201900 2201910 2201920 2201960	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 10566 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL 0676 - Town of POESTENKILL 0676 - Town of POESTENKILL	40 - Town 40 - Town 30 - County 40 - Town 40 - Town 40 - Town 40 - Town 40 - Town	40 - Town 40 - Town 30 - County 40 - Town 40 - Town 40 - Town 40 - Town 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific	Yes Sup-	perstructure Replacement			2 Yrs 10 Yrs 2 Yrs 2 Yrs 2 Yrs N/A 5 Yrs 5 Yrs 10 Yrs 10 Yrs 2 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5 PS Box Beams Rated CS-3/CS-4 Bank protection (masonry wall) reconstruction CCR < 4.0 and PL = 1ST
2201820 2201840 2201850 2201860 2201870 2201880 2201990 2201910 2201920 2201920 2201980 2201980 2201990	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL 0249 - Town of POESTENKILL 0249 - Town of EAST GREENBUSH 0741 - Town of SAND LAKE 0741 - Town of SAND LAKE	40 - Town 40 - Town 30 - County 40 - Town 40 - Town	40 - Town 40 - Town 30 - County 40 - Town 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006 1986 1950 1938	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific Element Specific Full Replacement Major Rehab Minor Rehab	Yes	perstructure Replacement			2 Yrs 10 Yrs 2 Yrs 2 Yrs 7 Yrs N/A 5 Yrs 5 Yrs 10 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5 PS Box Beams Rated CS-3/CS-4 Bank protection (masonry wall) reconstruction CCR < 4.0 and PL = 15T YSF Void in Footing Concrete and CCR < 4.0, Jack arch
2201820 2201840 2201850 2201860 2201870 2201880 2201990 2201990 2201990 2201990 2201990 2201990 2201990	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL 0249 - Town of EAST GREENBUSH 0741 - Town of SAND LAKE 0741 - Town of SAND LAKE 0741 - Town of SAND LAKE	40 - Town 40 - Town 30 - County 40 - Town	40 - Town 40 - Town 30 - County 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006 1986 1950 1938 1950	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific Element Specific Full Replacement Major Rehab Minor Rehab Full Replacement	Yes Sup	perstructure Replacement			2 Yrs 10 Yrs 2 Yrs 2 Yrs 2 Yrs 5 Yrs 5 Yrs 10 Yrs 2 Yrs 10 Yrs 10 Yrs 2 Yrs 10 Yrs 2 Yrs 5 Yrs 5 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5 PS Box Beams Rated CS-3/CS-4 Bank protection (masonry wall) reconstruction CCR < 4.0 and PL = 15T YSF Void in Footing Concrete and CCR < 4.0, Jack arch PL = 10T
2201820 2201840 2201850 2201860 2201870 2201890 2201990 2201990 2201990 2201990 2201990 2201990 2201990 2201990 2201990	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL 0249 - Town of EAST GREENBUSH 0741 - Town of SAND LAKE	40 - Town 40 - Town 30 - County 40 - Town 40 - Town	40 - Town 40 - Town 30 - County 40 - Town 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006 1986 1950 1938 1950 1950 1950	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific Element Specific Element Specific Full Replacement Major Rehab Minor Rehab Full Replacement Full Replacement Full Replacement	Yes	perstructure Replacement			2 Yrs 10 Yrs 2 Yrs 2 Yrs 2 Yrs N/A 5 Yrs 5 Yrs 10 Yrs 2 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5 PS Box Beams Rated CS-3/CS-4 Bank protection (masonry wall) reconstruction CCR < 4.0 and PL = 15T YSF Void in Footing Concrete and CCR < 4.0, Jack arch
2201820 2201840 2201860 2201860 2201880 2201900 2201900 2201900 2201960 2201980 2201980 2202000 2202010 2202020	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL 0249 - Town of FOESTENKILL 0249 - Town of EAST GREENBUSH 0741 - Town of SAND LAKE 0753 - Town of SCHODACK 0753 - Town of SCHODACK	40 - Town 40 - Town 30 - County 40 - Town	40 - Town 40 - Town 30 - County 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006 1986 1950 1938 1950 1950 1940 1948 1988	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific Element Specific Element Specific Full Replacement Major Rehab Minor Rehab Full Replacement Full Replacement Element Specific Element Specific					2 Yrs 10 Yrs 2 Yrs 2 Yrs 2 Yrs 2 Yrs 5 Yrs 10 Yrs 2 Yrs 10 Yrs 10 Yrs 2 Yrs 2 Yrs 2 Yrs 2 Yrs 10 Yrs 2 Yrs 2 Yrs 10 Yrs 2 Yrs 10 Yrs 2 Yrs 10 Yrs 2 Yrs 10 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5 PS Box Beams Rated CS-3/CS-4 Bank protection (masonry wall) reconstruction CCR < 4.0 and PL = 15T YSF Void in Footing Concrete and CCR < 4.0, Jack arch PL = 10T CCR < 3.5
2201820 2201840 2201860 2201860 2201880 2201890 2201900 2201900 2201960 2201960 2201990 2202000 2202000 2202000 2202000 2202070 2202080	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL 0249 - Town of POESTENKILL 0249 - Town of SAND LAKE 0741 - Town of SAND LAKE 0741 - Town of SAND LAKE 0741 - Town of SAND LAKE 0753 - Town of SCHODACK	40 - Town 40 - Town 30 - County 40 - Town	40 - Town 40 - Town 30 - County 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006 1986 1950 1938 1950 1950 1940 1988 1985	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific Element Specific Full Replacement Major Rehab Minor Rehab Full Replacement Full Replacement Element Specific Element Specific Element Specific Major Rehab		perstructure Replacement			2 Yrs 10 Yrs 22 Yrs 2 Yrs 2 Yrs 2 Yrs 5 Yrs 5 Yrs 10 Yrs 10 Yrs 10 Yrs 2 Yrs 2 Yrs 10 Yrs 2 Yrs 10 Yrs 2 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5 PS Box Beams Rated CS-3/CS-4 Bank protection (masonry wall) reconstruction CCR < 4.0 and PL = 15T YSF Void in Footing Concrete and CCR < 4.0, Jack arch PL = 10T
2201820 2201840 2201850 2201860 2201870 2201890 2201990 2201910 2201920 2201960 2201980 2202000 2202010 2202010 2202020 2202020 2202080 2202080 2202080 2202080	4 - County 4 - RENSSELAER	0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL 0249 - Town of FOESTENKILL 0249 - Town of EAST GREENBUSH 0741 - Town of SAND LAKE 0753 - Town of SCHODACK 0753 - Town of SCHODACK	40 - Town 40 - Town 30 - County 40 - Town	40 - Town 40 - Town 30 - County 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006 1986 1950 1938 1950 1950 1940 1948 1988	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific Element Specific Element Specific Full Replacement Major Rehab Minor Rehab Full Replacement Full Replacement Element Specific Element Specific	Sup				2 Yrs 10 Yrs 2 Yrs 2 Yrs 2 Yrs 2 Yrs 5 Yrs 10 Yrs 2 Yrs 10 Yrs 10 Yrs 2 Yrs 2 Yrs 2 Yrs 2 Yrs 10 Yrs 2 Yrs 2 Yrs 10 Yrs 2 Yrs 10 Yrs 2 Yrs 10 Yrs 2 Yrs 10 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR < 3.5, Jack arch CCR < 3.5 PS Box Beams Rated CS-3/CS-4 Bank protection (masonry wall) reconstruction CCR < 4.0 and PL = 15T YSF Void in Footing Concrete and CCR < 4.0, Jack arch PL = 10T CCR < 3.5
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2201820 2201840 2201850 2201860 2201870 2201880 2201890 2201990 2201990 2201990 2201900 2202000 2202000 2202000 2202000 2202100 2202200 2202200 2202200 2202200 220220	4 - County 4 - RENSSELAER 5 - County 4 - RENSSELAER 6 - County 4 - RENSSELAER 7 - County 4 - RENSSELAER 8 - County 4 - RENSSELAER 9 - County 4 - RENSSELAER 9 - County 4 - RENSSELAER 9 - County 5 - SARATOGA	0670 - Town of PITTSTOWN 0656 - Town of PETERSBURG 1575 - Village of EAST NASSAU 0676 - Town of POESTENKILL 0741 - Town of POESTENKILL 0741 - Town of SAND LAKE 0753 - Town of SCHODACK 0753 - Town of SCHODACK 0804 - Town of STEPHENTOWN 02047 - City of RENSSELAER 2047 - City of TROY 2057 - City of TROY	40 - Town 40 - Town 30 - County 40 - Town 41 - Town 42 - City 43 - City 40 - Town 40 - Town 30 - County	40 - Town 40 - Town 30 - County 40 - Town 41 - Town 42 - City 43 - City 44 - City 45 - City 47 - City 48 - City 49 - City 49 - City 40 - Town	1950 1991 1927 1950 2006 1985 2005 2006 1986 1986 1950 1950 1940 1950 1940 1950 1947 1912 1947 1940 1929 1975 1986 1940 1997 1997 1986 1940 1997 1935 1980 1990 1925 1960 1925 1974 2003 1980 2001	1998 8888 8888 8888 8888 8888 8888 8888		Full Replacement Element Specific Full Replacement Full Replacement Full Replacement No Work Needed Minor Rehab Minor Rehab Element Specific Element Specific Element Specific Full Replacement Major Rehab Minor Rehab Full Replacement Full Replacement Full Replacement Full Replacement Full Replacement Full Replacement Element Specific Bement Specific Major Rehab Minor Rehab Minor Rehab Minor Rehab Minor Rehab Element Specific Full Replacement On 2019-2024 TIP Full Replacement Minor Rehab Element Specific	Sup Sup Sup	perstructure Replacement perstructure Replacement perstructure Replacement perstructure Replacement perstructure Replacement			2 Yrs 10 Yrs 10 Yrs 2 Yrs 2 Yrs 2 Yrs 2 Yrs 2 Yrs N/A 5 Yrs 10 Yrs 10 Yrs 10 Yrs 10 Yrs 2 Yrs 2 Yrs 2 Yrs 2 Yrs 2 Yrs 2 Yrs 10 Yrs 10 Yrs 2 Yrs 10 Yrs 10 Yrs 2 Yrs 10 Yrs 2 Yrs 10 Yrs 2 Yrs 2 Yrs 10 Yrs 2 Yrs 5 Yrs 5 Yrs 5 Yrs 5 Yrs 5 Yrs 5 Yrs 10 Yrs	CCR < 3.5, YSF Web SL Headwall repair CCR & 3.5, YSF Web SL Headwall repair CCR & 3.5, Jack arch CCR & 3.5 PS Box Beams Rated CS-3/CS-4 Bank protection (masonry wall) reconstruction CCR < 4.0 and PL = 15T YSF Vold in Footing Concrete and CCR < 4.0, Jack arch PL = 10T CCR < 3.5 PL = 10T, Jack arch Jack arch CCR < 4.0 Selective stringer and floorbeam replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer and floorbeam replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer and floorbeam replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer and floorbeam replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer and floorbeam replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer and floorbeam replacement, YSF Stringer Web SL and CCR < 4.0 Selective stringer and floorbeam replacement, YSF Stringer Web SL and CCR < 4.0 Selective strin

Green Highlight Indicates In-Depth Inspection Performed Maintenance Year of Last Year Preservation 2020 Conceptual Responsibility BIN County Political Unit Primary Own Major 2020 In-Depth **Work Strategy** Treatment 1 **TIP Funding** Schedule Comments Built Eligible **Construction Cost** Primary ehabilitatio 2202740 5 - County 5 - SARATOGA 0357 - Town of HADLEY 30 - County 30 - County 1885 2006 Minor Rehab 2202750 5 - County 5 - SARATOGA 0360 - Town of HALFMOON 30 - County 30 - County 1927 1987 On 2019-2024 TIP CCR < 3.5 2202760 5 - County 5 - SARATOGA 0360 - Town of HALFMOON 30 - County 30 - County 1977 8888 Full Replacement 2 Yrs 2202770 5 - County 5 - SARATOGA 0360 - Town of HALFMOON 30 - County 1987 30 - County 8888 Element Specific 10 Yrs 2202790 5 - County 5 - SARATOGA 1034 - Village of BALLSTON SPA 40 - Town 40 - Town 1991 8888 Element Specific 10 Yrs 2202800 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 30 - County 30 - County 2001 8888 2202810 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 30 - County 30 - County 2001 8888 No Work Needed 2202820 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 30 - County 30 - County 1914 1987 On 2019-2024 TIP N/A CCR < 5.0 and PL = 17T 2202830 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 30 - County 30 - County 1982 8888 2020 In-Depth Major Rehab rstructure Replacement S 209.000.00 2 Yrs PS Box Beams Rated CS-3/CS-4 and CCR < 5.0 2202840 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 30 - County 30 - County 1930 2001 Element Specific 10 Yrs Superstructure Replacement PS Box Beams Rated CS-3/CS-4 and CCR < 5.0 2202850 5 - County 5 - SARATOGA 1985 Major Rehab 1507 - Village of VICTORY 41 - Village 41 - Village 8888 2202860 5 - County 5 - SARATOGA 2007 0747 - Town of SARATOGA 30 - County 30 - County 8888 10 Yrs Element Specific County 5 - SARATOGA 30 - County lement Specifi 2202880 5 - County 5 - SARATOGA 0917 - Town of WILTON 30 - County 30 - Count 2010 8888 lement Specific 10 Yrs Remove beaver dam from stream 42 - City 202940 5 - County 5 - SARATOGA 2029 - City of MECHANICVILLE 42 - City 2015 8888 Minor Rehab 2202950 5 - County 5 - SARATOGA 2029 - City of MECHANICVILLE 42 - Citv 42 - City 2016 8888 lement Specific 10 Yrs Bank protection (masonry wall) reconstruction 2202960 5 - County 5 - SARATOGA 2029 - City of MECHANICVILLE 42 - Citv 42 - City 2014 8888 No Work Needed N/A 2202970 5 - County 5 - SARATOGA 2029 - City of MECHANICVILLE 30 - County 30 - Count 1946 8888 Minor Rehab 279,000. 2 Yrs CCR < 5.0 72 - Other 72 - Othe 2202990 6 - County 6 - SCHENECTADY 0242 - Town of DUANESBURG 40 - Town 40 - Town Minor Rehab CCR < 6.0 1889 8888 2203020 6 - County 6 - SCHENECTADY 0726 - Town of ROTTERDAM 40 - Town 40 - Towr 1991 8888 Closed 2203060 6 - County 6 - SCHENECTADY 0726 - Town of ROTTERDAM 40 - Town 40 - Towr 1991 2222 Closed 203070 6 - County 6 - SCHENECTADY 0726 - Town of ROTTERDAM 40 - Town 40 - Town 1870 1976 Data > 6 Yrs Old Multi-use trail bridge 2203080 6 - County 6 - SCHENECTADY 2053 - City of SCHENECTADY 42 - City 42 - City 1981 8888 On 2019-2024 TIP N/A CCR < 6.0 2203090 6 - County 6 - SCHENECTADY 2053 - City of SCHENECTADY 42 - City 42 - City 1953 1986 Minor Rehab 5 Yrs CCR < 6.0 PS Box Beams Rated CS-3/CS-4, YSF PS Box Beam Deteriorate, CCR < 6.0 (Requested by City of Schenectady) 42 - City 42 - City 2203680 5 - County 5 - SARATOGA 1558 - Village of ROUND LAKE 30 - County 30 - County 1997 8888 lement Specific 10 Yrs Pedestrian trail bridge 42 - City 42 - City 2256670 6 - County 6 - SCHENECTADY 2053 - City of SCHENECTADY 1968 8888 Data > 6 Yrs Old 2256680 6 - County 6 - SCHENECTADY 2053 - City of SCHENECTADY 42 - City 42 - City 1968 8888 Data > 6 Yrs Old Pedestrian trail bridge 2256690 6 - County 6 - SCHENECTADY 2053 - City of SCHENECTADY 42 - Citv 42 - City 1968 8888 Data > 6 Yrs Old N/A Pedestrian trail bridge 42 - City 42 - City 2256840 1 - County 1 - ALBANY 2001 - City of ALBANY CCR < 5.0 1900 8888 Minor Rehab 5 Yrs 2259460 4 - County 4 - RENSSELAER 0752 - Town of SCHAGHTICOK 40 - Towr 40 - Towr 1984 8888 Minor Rehab 5 Yrs 2259570 1 - County 1 - ALBANY 42 - City 42 - City 1867 8888 Data > 6 Yrs Old Pedestrian trail bridge 2001 - City of ALBANY 2259580 1 - County 1 - ALBANY 2001 - City of ALBANY 42 - City 42 - City 1970 8888 Data > 6 Yrs Old Pedestrian trail bridge 2259590 1 - County 1 - ALBANY 41 - Village 1950 0443 - Town of KNOX 41 - Village 8888 259980 5 - County 5 - SARATOGA 0174 - Town of CLIFTON PARK 40 - Town 40 - Town 1910 8888 Full Replacement CCR < 3.5 2 Yrs 2259990 5 - County 5 - SARATOGA 0344 - Town of GREENFIELD 30 - County 30 - County 1957 8888 Minor Rehab 5 Yrs 260000 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 40 - Town 40 - Town 1907 8888 Major Rehab Superstructure Replacement 2 Yrs Jack arch 40 - Town 40 - Town Headwall repair, CCR < 5.0 2260010 5 - County 5 - SARATOGA 0357 - Town of HADLEY 1969 8888 Minor Rehab 5 Yrs 2260020 5 - County 5 - SARATOGA 30 - County 0917 - Town of WILTON 30 - County 1956 8888 Minor Rehab 2260030 5 - County 5 - SARATOGA 2052 - City of SARATOGA SPRINGS 30 - County 30 - County 1950 8888 Minor Rehab 5 Yrs 0693 - Town of PROVIDENCE Minor Rehab 260040 5 - County 5 - SARATOGA 30 - County 30 - County 2001 8888 2260050 5 - County 5 - SARATOGA 2052 - City of SARATOGA SPRINGS 42 - City 42 - City 1956 8888 Minor Rehah 2266060 4 - County 4 - RENSSELAER 2057 - City of TROY 42 - City 42 - City 1980 8888 Data > 6 Yrs Old Pedestrian trail bridge Immediate YSF Abutment UM, YSF Uncertified Crack Repair and PL = 18T 2266750 4 - County 4 - RENSSELAER 0752 - Town of SCHAGHTICOKE 40 - Town 40 - Town 1915 1993 Minor Rehab 2267170 4 - County 4 - RENSSELAER 0753 - Town of SCHODACK 40 - Town 40 - Town 1999 8888 Element Specific 10 Yrs 40 - Town 40 - Town 2267360 4 - County 4 - RENSSELAER 0753 - Town of SCHODACK 1924 2005 Element Specific 10 Yrs 2267780 4 - County 4 - RENSSELAER 2047 - City of RENSSELAER 42 - City 42 - City 1990 8888 Element Specific 42 - City 2267790 4 - County 4 - RENSSELAER 2047 - City of RENSSELAER 42 - City 1990 Minor Rehab 30 - County 267980 5 - County 5 - SARATOGA 0875 - Town of WATERFORD 30 - County 1988 2222 No Work Needer 2268980 4 - County 4 - RENSSELAER 0670 - Town of PITTSTOWN 30 - County 30 - County 1998 8888 Major Rehab Superstructure Replacement 2 Yrs CCR < 4.0 2269230 1 - County 1 - ALBANY 1509 - Village of VOORHEESVILLE 41 - Village 41 - Village 1999 8888 Minor Rehab 2269320 5 - County 5 - SARATOGA 0174 - Town of CLIFTON PARK 40 - Town 40 - Town 1988 8888 Element Specific 10 Yrs 2269330 5 - County 5 - SARATOGA 40 - Town 40 - Town 0174 - Town of CLIFTON PARK 1988 8888 lement Specific 10 Yrs 2269640 1 - County 1 - ALBANY 42 - City 42 - City 2002 2001 - City of ALBANY Data > 6 Yrs Old Multi-use trail bridge 30 - County 30 - County 8888 10 Yrs 1 - County 1 - ALBANY 2002 2270320 1 - County 1 - ALBANY 0180 - Town of COEYMANS 40 - Town 40 - Town 1939 1995 Minor Rehab 5 Yrs Repair headwall, CCR < 5.0 270560 5 - County 5 - SARATOGA 0501 - Town of MALTA 30 - County 30 - County 2009 8888 No Work Needed N/A 2270570 5 - County 5 - SARATOGA 0501 - Town of MALTA 30 - County 30 - County 2009 8888 No Work Needed N/A 2270580 5 - County 5 - SARATOGA 0501 - Town of MALTA 30 - County 30 - County 2009 8888 No Work Needed N/A 2270610 5 - County 5 - SARATOGA 2052 - City of SARATOGA SPRINGS 42 - City 42 - City 2010 8888 No Work Needed N/A - County 4 - RENSSELAER 0670 - Town of PITTSTOW 40 - Town 40 - Town 2013 lement Specific 10 Yrs Full Replacement 2271040 4 - County 4 - RENSSELAER 0804 - Town of STEPHENTOWN 40 - Town 40 - Town 1968 8888 CCR < 4.0 2271140 5 - County 5 - SARATOGA 30 - County 30 - County 2011 8888 No Work Needed 2271170 4 - County 4 - RENSSELAER 0561 - Town of NASSAU 40 - Town 40 - Tow 1953 9999 Minor Rehab 050510 6 - County 6 - SCHENECTADY 0587 - Town of NISKAYUN 30 - County 30 - County Minor Rehab place 2 pedestals, CCR < 6.0 1987 3200240 1 - County 1 - ALBANY 0443 - Town of KNOX 30 - County 30 - County 2007 8888 Element Specific 10 Yrs 3200250 1 - County 1 - ALBANY 0890 - Town of WESTERLO 30 - County 30 - County 2004 8888 No Work Needed 3259480 6 - County 6 - SCHENECTADY 0331 - Town of GLENVILLE 30 - County 1969 2016 30 - County No Work Needed 3300860 1 - County 1 - ALBANY 30 - County 30 - County 1992 8888 Repair concrete culvert 3300870 1 - County 1 - ALBANY 0068 - Town of BERNE 30 - County 30 - County 1997 8888 Minor Rehab 30 - County 3300880 1 - County 1 - ALBANY 0068 - Town of BERNE 30 - County 1939 2018 No Work Needed 3300890 1 - County 1 - ALBANY 0068 - Town of BERNE 30 - County 30 - County 1949 2007 Element Specific 10 Yrs 3300900 1 - County 1 - ALBANY 0068 - Town of BERNE 30 - County 30 - County 1990 8888 Minor Rehab 3300910 1 - County 1 - ALBANY 30 - County 30 - County 1973 1999 Major Rehab Deck Replacement 0068 - Town of BERNE Yrs 0068 - Town of BERNE 30 - County 8888 1 - County 1 - ALBANY 30 - County 1997 10 Yrs Element Specific 30 - County 3300930 1 - County 1 - ALBANY 0068 - Town of BERNE 30 - County 2008 8888 No Work Needed 3300940 1 - County 1 - ALBANY 30 - County 30 - County 2017 8888 No Work Needed 3300960 1 - County 1 - ALBANY 30 - County CCR < 5.0; Albany County Program Bridge 2021-2022 0068 - Town of BERNE 30 - County 1932 8888 On Albany Schedule 3300970 1 - County 1 - ALBANY 0068 - Town of BERNE 30 - County 20 - State - Othe 1925 1933 3301000 1 - County 1 - ALBANY 0068 - Town of BERNE 30 - County 30 - County 1988 8888 Element Specific 10 Yrs 3301010 1 - County 1 - ALBANY 0071 - Town of BETHLEHEM 30 - County 30 - County 2004 8888 Element Specific 10 Yrs PS Box Beams Rated CS-3/CS-4 301020 1 - County 1 - ALBANY 0071 - Town of BETHLEHEN 30 - County 1949 1975 30 - County 30 - County 1976 8888 3301050 1 - County 1 - ALBANY 0071 - Town of BETHLEHEM 30 - County Element Specific 10 Yrs

5 Yrs

5 Yrs

3301070 1 - County 1 - ALBANY

3301080 1 - County 1 - ALBANY

3301090 1 - County 1 - ALBANY

3301100 1 - County 1 - ALBANY

0180 - Town of COEYMANS

30 - County

30 - County

30 - County

30 - County

30 - Count

30 - County

30 - County

30 - County

1928

1955

1993

1955

1991

1990

8888

1991

Minor Rehab

Minor Rehab

Minor Rehab

Minor Rehab

Green Highlight Indicates In-Depth Inspection Performed Maintenance Year of Last Year Preservation 2020 Conceptua Responsibility 2020 In-Depth County Political Unit Primary Own Major Work Strategy **TIP Funding** Schedule Comments Built Eligible **Construction Cost** Primary habilitati 3301140 1 - County 1 - ALBANY 0355 - Town of GUILDERLAND 30 - County 30 - County 1933 1971 1 - County 1 - ALBANY 0355 - Town of GUILDERLAND 30 - County 30 - County 2014 8888 Minor Rehab 3301160 1 - County 1 - ALBANY 0355 - Town of GUILDERLAND 30 - County 30 - County 1933 8888 Minor Rehab 5 Yrs 30 - County 3301170 1 - County 1 - ALBANY 0355 - Town of GUILDERLAND 30 - County 1987 8888 Minor Rehab 3301180 1 - County 1 - ALBANY 0355 - Town of GUILDERLAND 30 - County 30 - County 8888 1999 Minor Rehab 5 Yrs - County 1 - ALBANY 30 - County 1963 1992 Element Specific 3301200 1 - County 1 - ALBANY 0355 - Town of GUILDERLAND 30 - County 30 - County 1943 1991 Minor Rehah 3301210 1 - County 1 - ALBANY 0355 - Town of GUILDERLAND 30 - County 30 - County 1975 2019 No Work Needed 3301250 1 - County 1 - ALBANY 0443 - Town of KNOX 30 - County 30 - County 1988 8888 Element Specific 10 Yrs 3301260 1 - County 1 - ALBANY 0443 - Town of KNOX 30 - County 30 - County 1989 8888 No Work Needed 30 - County 3301270 1 - County 1 - ALBANY 0581 - Town of NEW SCOTLAND 30 - County 1939 1992 Minor Rehab Repair truss, repair gusset plate 5 Yrs 3301280 1 - County 1 - ALBAN 30 - County 30 - County 0581 - Town of NEW SCOTLAND 1999 lement Specifi 3301290 1 - County 1 - ALBANY 0355 - Town of GUILDERLAND 30 - County 30 - County 1991 Element Specific 3301300 1 - County 1 - ALBANY 0581 - Town of NEW SCOTI AND 30 - County 30 - County 1882 1989 Minor Rehah 3301310 1 - County 1 - ALBANY 0581 - Town of NEW SCOTLAND 30 - County 30 - County 1886 1991 Minor Rehab CCR < 5.0 5 Yrs 30 - County 30 - County 3301320 1 - County 1 - ALBANY 0581 - Town of NEW SCOTLAND 2001 8888 lement Specifi 3301330 1 - County 1 - ALBANY 0581 - Town of NEW SCOTLAND 30 - County 30 - County 1931 2002 Element Specific 10 Yrs 3301340 1 - County 1 - ALBANY 0581 - Town of NEW SCOTLAND 30 - County 30 - County 1898 1999 Major Rehab Deck Replacement nmediate YSF Broken Timber Deck Boards, YSF Abutment UM, CCR < 5.0 and PL = 12T 2015 30 - County 3301350 1 - County 1 - ALBANY 0581 - Town of NEW SCOTLAND 30 - County 8888 Element Specifi - County 1 - ALBANY 2004 8888 3301370 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 30 - County 1897 1990 Minor Rehab RSF Abut Rotation (Inactive) 30 - County 3301380 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 1999 2222 Minor Rehah Repair 3 LF truss, repair 1 gusset plate, repair secondary members Secondary Member repair 3301390 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 30 - County 1999 8888 Minor Rehab 5 Yrs 3301400 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 30 - County 1935 1990 On Albany Schedule N/A CCR < 5.0; Albany County Program Bridge 2021-2022 3301410 1 - County 1 - ALBANY 30 - County 30 - County Full Replacement mmediate YSF Culvert Invert Deterioration 0706 - Town of RENSSELAERVILLE 1984 8888 30 - County 30 - County 2018 . - County 1 - ALBAN No Work Needed 3301430 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 30 - County 1980 8888 Element Specific 10 Yrs 3301440 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 30 - County 1956 1990 Minor Rehab 3301450 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 30 - County 1989 8888 Element Specifi 10 Yrs 30 - County 3301460 1 - County 1 - ALBANY 0706 - Town of RENSSELAFRVILLE 30 - County 1987 On Albany Schedule PS Box Beams Rated CS-3/CS-4; Albany County Program Bridge 2021-2022 1952 3301470 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 30 - County 1955 1993 Minor Rehab 5 Yrs 3301480 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 30 - County 1960 2001 Minor Rehab 5 Yrs 3301490 1 - County 1 - ALBAN 30 - County 30 - County 1982 552,000.00 301500 1 - County 1 - ALBANY 0706 - Town of RENSSELAERVILLE 30 - County 30 - County 1951 1991 Minor Rehab CCR < 5.0 5 Yrs 3301510 1 - County 1 - ALBANY 30 - County 30 - County 2007 Element Specific 1 - County 1 - ALBANY 30 - County 0890 - Town of WESTERI O 2004 2222 Element Specific 30 - County 3301530 1 - County 1 - ALBANY 0890 - Town of WESTERLO 30 - County 8888 lement Specific 1980 10 Yrs 3301540 1 - County 1 - ALBANY 0890 - Town of WESTERLO 30 - County 30 - County 2009 8888 lement Specific 10 Yrs 30 - County 3301550 1 - County 1 - ALBANY 0890 - Town of WESTERLO 30 - County 2014 8888 Element Specific 10 Yrs 3301560 1 - County 1 - ALBANY 0890 - Town of WESTERLO 30 - County 30 - County 1949 1991 Minor Rehab 5 Yrs 3301570 1 - County 1 - ALBANY 30 - County 1940 Minor Rehab 0890 - Town of WESTERLO 30 - County 1991 5 Yrs PS Box Beams Rated CS-3/CS-4, Replace approach pavement, reset approach rail p 30 - County 30 - Coun - County 1 - ALBAN 301590 1 - County 1 - ALBANY 30 - County 1933 1987 - County 1 - ALBANY 30 - Cour 133.000.00 3302980 1 - County 1 - ALBANY 0180 - Town of COEYMANS 40 - Town 40 - Town 2011 8888 Element Specific 10 Yrs 3303330 4 - County 4 - RENSSELAER 0752 - Town of SCHAGHTICOKE 30 - County 30 - County 1949 8888 Minor Rehab 5 Yrs 3303340 4 - County 4 - RENSSELAER 0670 - Town of PITTSTOWN 30 - County 30 - County 2016 8888 Element Specific 10 Yrs Remove timber debris from stream 1947 3303370 4 - County 4 - RENSSELAER 0670 - Town of PITTSTOWN 30 - County 30 - County 8888 Minor Rehab 0752 - Town of SCHAGHTICOKE 30 - County 3303400 4 - County 4 - RENSSELAER 30 - County 1935 2014 Minor Rehab 5 Yrs 30 - County 1948 Minor Rehab 30 - County 3303420 4 - County 4 - RENSSELAER 0670 - Town of PITTSTOWN 30 - Count 1949 2222 Major Rehab eck Replacement 3303430 4 - County 4 - RENSSELAER 0670 - Town of PITTSTOWN 30 - County 30 - County 1945 8888 Minor Rehab 2 Yrs 3303440 4 - County 4 - RENSSELAER 0670 - Town of PITTSTOWN 30 - County 30 - County 1938 8888 Full Replacement 2 Yrs CCR < 4.0 3303450 4 - County 4 - RENSSELAER 0670 - Town of PITTSTOWN 30 - County 30 - County 1965 1994 Full Replacement 2 Yrs 3303460 4 - County 4 - RENSSELAER 0752 - Town of SCHAGHTICOKE 30 - County 30 - County 1949 Major Rehab RSF Web SL (Inactive), YSF Web SL and PL = 10T 8888 Deck Replacement - County 4 - RENSSELAER 30 - County 30 - County ective truss member, stringer and bracing replacement, PL = 12T Minor Rehab 30 - County 3303500 4 - County 4 - RENSSELAER 30 - County 1989 Full Replacement 3303510 4 - County 4 - RENSSELAER 0670 - Town of PITTSTOWN 30 - County 30 - County 2018 8888 No Work Needed Major Rehab 3303550 4 - County 4 - RENSSELAER 0676 - Town of POESTENKILL 30 - County 30 - County 1939 2222 Deck Replacement 2 Yrs 3303560 4 - County 4 - RENSSELAER 0676 - Town of POESTENKILI 30 - County 30 - County 1982 8888 Minor Rehab PS Box Beams Rated CS-3/CS-4 3303570 4 - County 4 - RENSSELAER 0099 - Town of BRUNSWICK 30 - County 30 - County 1985 8888 Element Specific 10 Yrs 0676 - Town of POESTENKILL CCR < 4.0 and PL = 12T 3303580 4 - County 4 - RENSSELAER 30 - County 30 - County 1939 8888 Major Rehab Superstructure Replacement 2 Yrs 3303590 4 - County 4 - RENSSELAER 0676 - Town of POESTENKILL 30 - County 30 - County 1940 Minor Rehab 5 Yrs 4 - County 4 - RENSSELAER 30 - County 30 - County PL = 15T 3303620 4 - County 4 - RENSSELAER 0676 - Town of POESTENKILL 30 - County 30 - County 1988 Minor Rehab 5 Yrs 3303630 4 - County 4 - RENSSELAER 30 - County 2007 8888 No Work Needed 0676 - Town of POESTENKILL 30 - County 3303640 4 - County 4 - RENSSELAER 0676 - Town of POESTENKILL 30 - County 30 - County 1982 8888 Minor Rehab 5 Yrs 3303650 4 - County 4 - RENSSELAER 0676 - Town of POESTENKILL 30 - County 30 - County 1988 8888 Maior Rehab Superstructure Replacement mmediate Safety PIA (Inactive), YSF cracked cover PL welds, YSF web SL, CCR < 4.0 and PL = 10T 3303660 4 - County 4 - RENSSELAER 30 - County 30 - County nmediate YSF Flange SL and CCR < 4.0 0067 - Town of BERLIN 1950 1990 Maior Rehab Superstructure Replacement 3303670 4 - County 4 - RENSSELAER 0067 - Town of BERLIN 30 - County 30 - County 1912 1988 Full Replacemer CCR < 3.5, RSF Web SL (Inactive 3303680 4 - County 4 - RENSSELAER 0067 - Town of BERLIN 30 - County 30 - County 2014 8888 Minor Rehab 3303690 4 - County 4 - RENSSELAER 30 - County 30 - County 1923 1988 30 - County Minor Rehab 3303700 4 - County 4 - RENSSELAER 0656 - Town of PETERSBURG 30 - County 1991 3303720 4 - County 4 - RENSSELAER 0656 - Town of PETERSBURG 30 - County 30 - County 8888 Element Specific 10 Yrs Remove timber debris from stream 3303740 4 - County 4 - RENSSELAER 0741 - Town of SAND LAKE 30 - County 30 - County 1935 8888 Minor Rehab 5 Yrs Steel culvert repair 4 - County 4 - RENSSELAER 0067 - Town of BERLIN 30 - County 30 - County 1989 8888 Minor Rehab Yrs Concrete culvert repair RSF Load Posting (Inactive), RSF Web SL, RSF Mid-Span SL, YSF Bottom Flange Crack/Tear, CCR < 4.0 and PL = 12T 3303760 4 - County 4 - RENSSELAER 0804 - Town of STEPHENTOWI 30 - County 30 - County 1935 8888 Major Rehab Superstructure Replacement 3303780 4 - County 4 - RENSSELAER 0804 - Town of STEPHENTOWN 30 - County 1932 Full Replacement 30 - County 8888 CCR < 4.0, Jack arch 3303790 4 - County 4 - RENSSELAER 0804 - Town of STEPHENTOWN 30 - County 30 - County 8888 1950 Minor Rehab 30 - County 8888 Major Rehab 4 - County 4 - RENSSELAER 30 - County 1991 Deck Replacement 30 - County 3303820 4 - County 4 - RENSSELAER 0804 - Town of STEPHENTOWN 30 - County 2012 8888 No Work Needed 3303840 4 - County 4 - RENSSELAER 0804 - Town of STEPHENTOWN 30 - County 30 - County 1950 2018 No Work Needed 3303850 4 - County 4 - RENSSELAER 1575 - Village of EAST NASSAU 30 - County 30 - County 1990 8888 Element Specific 10 Yrs 1575 - Village of EAST NASSAU 30 - County 3303860 4 - County 4 - RENSSELAER 30 - County 1991 8888 Minor Rehab 5 Yrs Secondary member repair, remove fallen log from stream 3303870 4 - County 4 - RENSSELAER 30 - County **Element Specific** 0561 - Town of NASSAU 30 - County 1990 2018 10 Yrs

Deck Replacement

10 Yrs

PS Box Beams Rated CS-3/CS-4

No Work Needed

lement Specifi

Element Specific

Minor Rehab

Minor Rehab

30 - County

3303890 4 - County 4 - RENSSELAER

3303900 4 - County 4 - RENSSELAER

3303910 4 - County 4 - RENSSELAER

3303920 4 - County 4 - RENSSELAER

3303930 4 - County 4 - RENSSELAER 0561 - Town of NASSAU

0741 - Town of SAND LAKE

1333 - Village of NASSAU

0753 - Town of SCHODACK

30 - County

2012

2002

1997

1990

1989

8888

8888

8888

2013

Green Highlight Indicates In-Depth Inspection Performed Maintenance Year of Last Year Preservation 2020 Conceptual Responsibility County Political Unit **Primary Own** Major 2020 In-Depth **Work Strategy** Treatment 1 **TIP Funding** Schedule Comments Built Eligible **Construction Cost** Primary habilitatio 3303960 4 - County 4 - RENSSELAER 0561 - Town of NASSAU 30 - County 30 - County 1990 8888 lement Specific 3303980 4 - County 4 - RENSSELAER 0753 - Town of SCHODACK 30 - County 30 - County 1930 1992 Minor Rehab 5 Yrs Reset gabion bank protection, CCR < 4.0 3304000 4 - County 4 - RENSSELAER 0753 - Town of SCHODACK 30 - County 30 - County 1997 8888 Minor Rehab 5 Yrs 3304010 4 - County 4 - RENSSELAER 30 - County 1932 0753 - Town of SCHODACK 30 - County 1997 Element Specific 10 Yrs 3304020 4 - County 4 - RENSSELAER 0753 - Town of SCHODACK 30 - County 30 - County 1908 1998 Deck Replacement Full stringer and floorbeam replacement, isolated truss repairs, RSF Stringer SL (Inactive), RSF Floorbeam SL (Inactive) and CCR < 4.0 Major Rehab 2 Yrs 3304030 4 - County 4 - RENSSELAER 30 - County 30 - County 2005 lement Specific 10 Yrs 3304040 4 - County 4 - RENSSELAER 0741 - Town of SAND LAKE 30 - County 30 - County 2002 8888 No Work Needed 3304080 4 - County 4 - RENSSELAER 0752 - Town of SCHAGHTICOKE 30 - County 30 - County 1950 8888 Full Replacement YSF Culvert X-Bracing Deterioration and PL = 15T 3304110 4 - County 4 - RENSSELAER 0676 - Town of POESTENKILL 30 - County 30 - County 1939 8888 Minor Rehab Headwall repair, culvert floor undermining repair, YSF Culvert Outlet UM 3304160 5 - County 5 - SARATOGA 0344 - Town of GREENFIELD 30 - County 30 - County 1930 2018 Element Specific 10 Yrs 3304170 5 - County 5 - SARATOGA 0255 - Town of EDINBURG 30 - County 30 - County 2004 No Work Needed 8888 3304190 5 - County 5 - SARATOGA 30 - County 2012 0255 - Town of EDINBURG 30 - County 8888 10 Yrs Element Specific 5 - County 5 - SARATOGA PS Box Beams Rated CS-3/CS-4 3304210 5 - County 5 - SARATOGA 0220 - Town of DAY 30 - County 30 - Cour YSF Culvert Support Wall UM, Replace approach rail 3304230 5 - County 5 - SARATOGA 0357 - Town of HADLEY 30 - County 30 - County 1997 8888 Element Specific 10 Yrs 3304240 5 - County 5 - SARATOGA 0220 - Town of DAY 30 - County 30 - County 1994 8888 No Work Needed 3304250 5 - County 5 - SARATOGA 0220 - Town of DAY 30 - County 30 - County 1992 8888 Element Specific 10 Yrs 3304270 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 30 - County 30 - County 2001 8888 No Work Needed 3304280 5 - County 5 - SARATOGA 30 - County 2013 0693 - Town of PROVIDENCE 30 - County 8888 No Work Needed 3304290 5 - County 5 - SARATOGA 0314 - Town of GALWAY 30 - County 30 - County 2000 8888 3304300 5 - County 5 - SARATOGA 0534 - Town of MILTON 30 - County 30 - County 1996 8888 Element Specific 10 Yrs 3304310 5 - County 5 - SARATOGA 0534 - Town of MILTON 30 - County 30 - County 1930 1992 No Work Needed Element Specific 3304320 5 - County 5 - SARATOGA 0534 - Town of MILTON 30 - County 30 - County 2004 8888 10 Yrs 3304330 5 - County 5 - SARATOGA 1034 - Village of BALLSTON SPA 30 - County 30 - County 1994 8888 Element Specific 10 Yrs 3304340 5 - County 5 - SARATOGA 1034 - Village of BALLSTON SPA 30 - County 30 - County 1993 8888 Element Specific 10 Yrs 3304350 5 - County 5 - SARATOGA 0534 - Town of MILTON 30 - County 30 - County 1932 1989 Minor Rehab 5 Yrs - County 5 - SARATOGA 30 - County 30 - County lement Specific 3304370 5 - County 5 - SARATOGA 0501 - Town of MALTA 30 - County 30 - County 2001 8888 No Work Needed 30 - County 3304380 5 - County 5 - SARATOGA 0049 - Town of BALLSTON 30 - County 1998 8888 Element Specific 10 Yrs 3304390 5 - County 5 - SARATOGA 0049 - Town of BALLSTON 30 - County 30 - County 1991 8888 No Work Needed 3304400 5 - County 5 - SARATOGA 1558 - Village of ROUND LAKE 30 - County 30 - County 1991 8888 Element Specific 10 Yrs 30 - County 3304410 5 - County 5 - SARATOGA 0747 - Town of SARATOGA 30 - County 8888 1961 Minor Rehab 5 Yrs 3304420 5 - County 5 - SARATOGA Element Specifi 1507 - Village of VICTORY 30 - County 30 - County 1990 8888 10 Yrs 3304430 5 - County 5 - SARATOGA 0747 - Town of SARATOGA 30 - County 30 - County 1961 8888 Minor Rehab 5 Yrs 3304440 5 - County 5 - SARATOGA 0747 - Town of SARATOGA 30 - County 30 - County 1969 2015 Element Specifi 3304450 5 - County 5 - SARATOGA 0501 - Town of MALTA 30 - County 1962 Minor Rehab Secondary member repair, CCR < 5.0 30 - County 1998 30 - County 3304460 5 - County 5 - SARATOGA 2052 - City of SARATOGA SPRINGS 30 - County 1966 2015 Element Specific 10 Yrs 3304470 5 - County 5 - SARATOGA 0601 - Town of NORTHUMBERLAND 30 - County 30 - County 1961 2015 No Work Needed N/A 3304480 5 - County 5 - SARATOGA 0601 - Town of NORTHUMBERLAND 30 - County 30 - County 1951 1997 Minor Rehab 5 Yrs Longitudinal joint repair 0601 - Town of NORTHUMBERLAND 3304490 5 - County 5 - SARATOGA 30 - County 30 - County 1969 8888 Element Specific 10 Yrs 3304500 5 - County 5 - SARATOGA 0917 - Town of WILTON 30 - County 30 - County 2007 8888 Element Specific 10 Yrs 306,000.0 CCR < 5.0, Remove curb to allow proper cross-drainage 30 - County 3304530 5 - County 5 - SARATOGA 0344 - Town of GREENEIELD 30 - Count 1937 1989 3304540 5 - County 5 - SARATOGA 0344 - Town of GREENFIELD 30 - County 30 - County 1967 8888 Element Specific 10 Yrs PS Box Beams Rated CS-3/CS-4 3304550 5 - County 5 - SARATOGA 0344 - Town of GREENFIELD 30 - County 30 - County 2016 8888 No Work Needed CCR < 5.0 804560 5 - County 5 - SARATOGA 0534 - Town of MILTON 30 - County 30 - Count 1953 ructure Replacement \$ 2 Yrs 3304570 5 - County 5 - SARATOGA 0534 - Town of MILTON 30 - County 30 - County 1952 2017 Element Specific 10 Yrs 3304580 5 - County 5 - SARATOGA 30 - County 30 - County Element Specific Element Specific 3304590 5 - County 5 - SARATOGA 30 - County 30 - County 1998 - County 5 - SARATOGA 30 - County 30 - County 0534 - Town of MILTON 2002 2222 No Work Needed 3304610 5 - County 5 - SARATOGA 1034 - Village of BALLSTON SPA 30 - County 30 - County 1958 2010 No Work Needed N/A 3304620 5 - County 5 - SARATOGA 1034 - Village of BALLSTON SPA 30 - County 30 - County 2006 8888 No Work Needed 3304630 5 - County 5 - SARATOGA 0147 - Town of CHARLTON 30 - County 30 - County 1966 1992 Minor Rehab 5 Yrs 3304640 5 - County 5 - SARATOGA 0147 - Town of CHARLTON 30 - County 1934 30 - County 1987 Minor Rehab 3304650 5 - County 5 - SARATOGA 0147 - Town of CHARLTON 30 - County 30 - County 1966 1993 No Work Needed 5 - County 5 - SARATOGA 30 - County 1984 8888 10 Yrs Headwall repair 0049 - Town of BALLSTON 30 - County 3304670 5 - County 5 - SARATOGA 30 - County 1962 8888 Element Specific 10 Yrs 30 - County 3304680 5 - County 5 - SARATOGA 0174 - Town of CLIFTON PARK 30 - County 1936 1995 Minor Rehah CCR < 5.0 3304690 5 - County 5 - SARATOGA 0049 - Town of BALLSTON 30 - County 30 - County 1950 2000 Element Specific 10 Yrs 3304700 5 - County 5 - SARATOGA 0049 - Town of BALLSTON 30 - County 30 - County 1949 8888 On 2019-2024 TIP N/A CCR < 5.0 3304710 5 - County 5 - SARATOGA 0049 - Town of BALLSTON 30 - County 30 - County 1990 2013 10 Yrs Element Specific - County 5 - SARATOGA 30 - County 0693 - Town of PROVIDENC 30 - County 1991 lement Specifi LO Yrs 3304730 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 30 - County 30 - County 1996 8888 lement Specific 3304740 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 30 - County 30 - County 8888 On 2019-2024 TIP YSF Culvert Deterioration 3304750 5 - County 5 - SARATOGA 0693 - Town of PROVIDENCE 30 - County 30 - County 1958 1999 10 Yrs Element Specific 3304760 5 - County 5 - SARATOGA 30 - County 30 - County lement Specific 0220 - Town of DAY 1940 1996 3304770 5 - County 5 - SARATOGA 0220 - Town of DAY 30 - County 30 - County 1939 8888 Maior Rehab Deck Replacement 2 Yrs PS Box Beams Rated CS-3/CS-4 3304780 5 - County 5 - SARATOGA 0220 - Town of DAY 30 - County 30 - County 1995 8888 Maior Rehab Deck Replacement 2 Yrs 3304790 5 - County 5 - SARATOGA 30 - County 30 - County 1937 CCR < 5.0 0255 - Town of EDINB Minor Rehab 2 Yrs 30 - County 8888 3304820 5 - County 5 - SARATOGA 0807 - Town of STILLWATER 30 - County 30 - County 1967 2015 No Work Needed 3304850 6 - County 6 - SCHENECTADY 0242 - Town of DUANESBURG 30 - County 30 - County 1998 2222 Minor Rehah 5 Vrc Remove timber debris from stream, CCR < 6.0 3304860 6 - County 6 - SCHENECTADY 0242 - Town of DUANESBURG 30 - County 30 - County 1993 8888 Minor Rehab 5 Yrs CCR < 6.0 3304870 6 - County 6 - SCHENECTADY 0242 - Town of DUANESBURG 30 - County 30 - County 1996 8888 lement Specific 10 Yrs Headwall repair 3304880 6 - County 6 - SCHENECTADY 0242 - Town of DUANESBURG 30 - County 30 - County 1990 8888 Element Specific 10 Yrs 3304890 6 - County 6 - SCHENECTADY 0242 - Town of DUANESBURG 30 - County 30 - County 1907 1984 lement Specific LO Yrs 30 - County 3304900 6 - County 6 - SCHENECTADY 1125 - Village of DELANSON 30 - County 2003 8888 Element Specific 10 Yrs 3304920 6 - County 6 - SCHENECTADY 0331 - Town of GLENVILLE 30 - County 30 - County 1993 8888 3304930 6 - County 6 - SCHENECTADY 0331 - Town of GLENVILLE 30 - County 30 - County 2015 8888 No Work Needed 30 - County 3304940 6 - County 6 - SCHENECTADY 0331 - Town of GLENVILLE 30 - County 1997 8888 lement Specific 10 Yrs 3304960 6 - County 6 - SCHENECTADY 0692 - Town of PRINCETOWN 30 - County 30 - County 1991 2014 Element Specific 10 Yrs 3304970 6 - County 6 - SCHENECTADY 0692 - Town of PRINCETOWN 30 - County 30 - County 1978 8888 Minor Rehab 5 Yrs Bank protection (masonry wall) reconstruction, CCR < 6.0 3304980 6 - County 6 - SCHENECTADY 0692 - Town of PRINCETOWN 30 - County 2000 5 Yrs 30 - County 1935 Minor Rehab 3304990 6 - County 6 - SCHENECTADY 0692 - Town of PRINCETOWN 30 - County 30 - County 2013 No Work Needed 8888 3305030 6 - County 6 - SCHENECTADY 0726 - Town of ROTTERDAM 30 - County 1991 30 - County 1983 8888 Minor Rehab CCR < 6.0 6 - County 6 - SCHENECTADY 0726 - Town of ROTTERDAM

Deck Replacement

PS Box Beams Rated CS-3/CS-4

5 Yrs

5 - County 5 - SARATOGA

3363610 1 - County 1 - ALBANY

3364160 5 - County 5 - SARATOGA

3364170 5 - County 5 - SARATOGA

1115 - Village of CORINTH

0357 - Town of HADLEY

0357 - Town of HADLEY

0071 - Town of BETHLEHEM

30 - County

1997

1976

1955

1929

8888

8888

2012

2001

Major Rehab

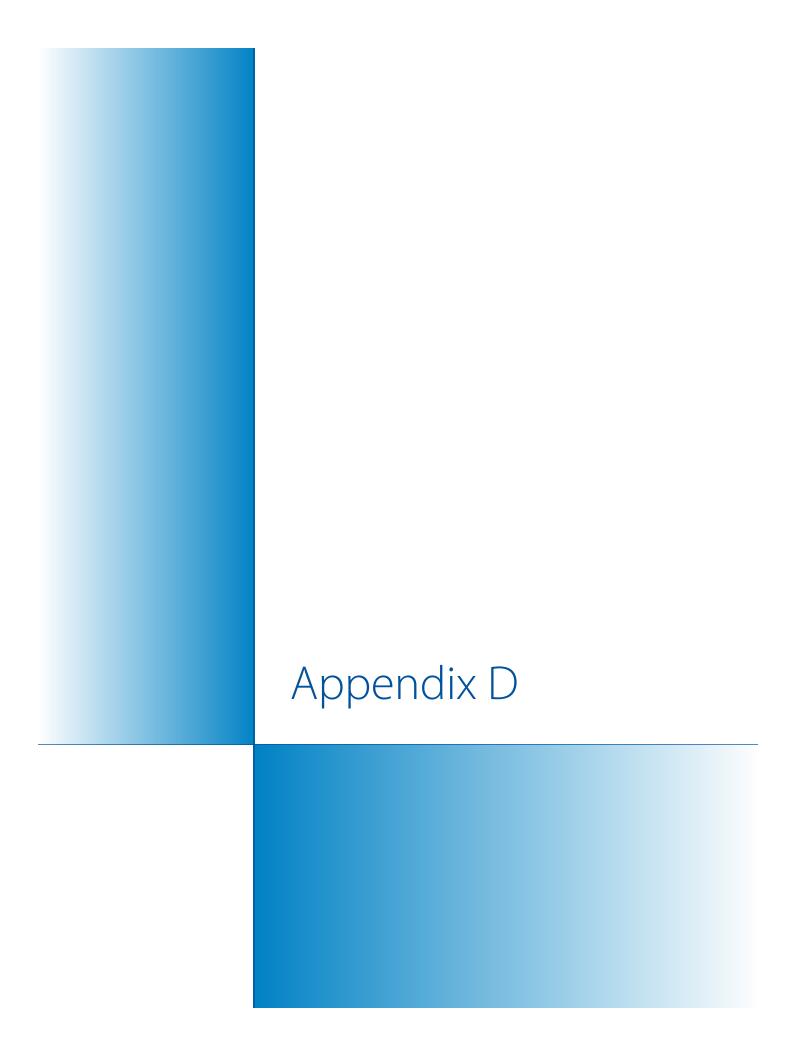
Minor Rehab

Minor Rehab

On Albany Schedule

Green Highlight Indicates In-Denth Inspection Performed

	Green Highlight Indicates In-Depth Inspection Performed													
BIN	County	Political Unit	Primary Owner	Maintenance Responsibility Primary	Year Built	Year of Last Major Rehabilitation	2020 In-Depth	Work Strategy	reservation Eligible	Treatment 1	2020 Conceptual Construction Cost	TIP Funding	Program Schedule (years)	Comments
3364180	5 - County 5 - SARATOGA	0344 - Town of GREENFIELD	30 - County	30 - County	1938	1989		Element Specific					10 Yrs	
3364190	5 - County 5 - SARATOGA	1518 - Village of WATERFORD	41 - Village	41 - Village	1999	8888		Element Specific					10 Yrs	
3367490	4 - County 4 - RENSSELAER	0753 - Town of SCHODACK	40 - Town	40 - Town	1990	8888		Full Replacement					2 Yrs	CCR < 3.5
3368290	5 - County 5 - SARATOGA	0549 - Town of MOREAU	30 - County	30 - County	1993	8888		Minor Rehab					5 Yrs	
3369040	4 - County 4 - RENSSELAER	0561 - Town of NASSAU	30 - County	30 - County	1995	8888		Full Replacement					2 Yrs	CCR < 3.5
3369300	1 - County 1 - ALBANY	0890 - Town of WESTERLO	30 - County	30 - County	1960	1992		On Albany Schedule					N/A	CCR < 5.0; Albany County Program Bridge 2021-2022
3370070	1 - County 1 - ALBANY	0443 - Town of KNOX	30 - County	30 - County	2002	8888		No Work Needed					N/A	
3370850	6 - County 6 - SCHENECTADY	0242 - Town of DUANESBURG	30 - County	30 - County	2012	8888		No Work Needed					N/A	
4415050	5 - County 5 - SARATOGA	0875 - Town of WATERFORD	30 - County	30 - County	1908	8888		Closed					N/A	
5513570	1 - County 1 - ALBANY	2001 - City of ALBANY	42 - City	2L - NYS Thruway Authority	1954	8888		Element Specific					10 Yrs	
7005610	5 - County 5 - SARATOGA	0174 - Town of CLIFTON PARK	30 - County	30 - County	1930	1960		Data > 6 Yrs Old					N/A	Rail trail bridge
		0071 - Town of BETHLEHEM	30 - County	30 - County	1912	8888		Data > 6 Yrs Old						Rail trail bridge
7038350	6 - County 6 - SCHENECTADY	0587 - Town of NISKAYUNA	20 - State - Other	40 - Town	1941	8888		Minor Rehab					5 Yrs	CCR < 6.0







CONDITION SUMMARY REPORT

BIN: 2256840

Feature Carried: Albany City Streets **Feature Crossed:** Beaver Relief Sewer

Owner: City of Albany

Date and Time: N/A Weather Conditions: N/A

Inspector: Mark Fabend **Computed Condition Rating:** 4.333 / 2019

Direction of Orientation: North

Recommendations: A field visit was not conducted due to confined space entry being required. The following recommendations are based the conditions observed during the 2019 Biennial Bridge Inspection and the 2017 Diving Inspection:

- Repair the roof slab and walls inside of the culvert. (PH 1 and PH 2) The 2019 Biennial Inspection reported that the worst of the deteriorated areas are located at 1/4 the length of the culvert, at approx. 3/4 the length of the culvert and at the outlet. There are also several transverse cracks in the roof slab and walls at scattered locations not specifically defined in the 2019 Biennial Inspection Report.
- Repair concrete at outlet by installing a cofferdam, removing any remaining deteriorated concrete to expose the rebar cage and reconstructing these areas. The 2017 Diving Inspection indicated the spalled areas at each abutment and the pier were typically 6 ft high by 2-3 ft wide by approx. 4" deep. (PH 3)
- Install riprap at outlet (No Photo)

Cost Estimate: \$841,000

Potential Construction Related Issues: Confined space entry required, difficult access for movement of materials into and out of the culvert





РНОТО NO:

1

DESCRIPTION:

Looking at Top Slab of Culvert at Manhole 3 Entrance (Photo From 2019 Biennial Inspection Report)



PHOTO NO:

DESCRIPTION:

Looking at Typical Spall in Roof Slab of Culvert (Photo From 2019 Biennial Inspection Report)







РНОТО NO:

3

DESCRIPTION:

Looking at
Centerwall/Pier
at Outlet
(Photo Taken
From 2017
Diving
Inspection)







FIELD VISIT REPORT

BIN: 3301020

Owner:30-CountyDate and Time:3/4/21. AMWeather Conditions:Clear, 34F

Inspector: Michael Lemme
Computed Condition Rating: 5.083 (2020)
Direction of Orientation: 8-Northwest

Feature Carried: South Albany Road CR53
Feature Crossed: One Squethaw Creek

Preliminary Recommendations:

- Repair scour and undermining repairs with Grout Bags (See 2020 report for photos).
- Protective sealing for structural concrete and deck (Photo 1).
- Concrete removal and repairs, Type A & D concrete used for deck and substructure repairs (Photos 2 -10).
- WZTC & Construction Inspection included in estimate.

Preliminary Cost Estimate: \$ 750,000

Field Visit Notes:

The begin and end joints are shown as NSCO elements in the 2020 report, as they are beyond the backwalls (Photos 11 &12). The fillable type joint material appears to be allowing leakage below deck at both locations (Photo 14). A repair would likely include the removal and replacement of the pourable joint material for 28′, both abutments.

Revised Cost Estimate: \$ 776,000

Potential Construction Related Issues:

- Residential property exists with a driveway at the bridge End Left.
- Overhead utilities exist at the bridge left.





DESCRIPTION:

Top of Deck, Looking Towards The end



PHOTO NO:

DESCRIPTION:

Top of Deck near the begin, Looking Towards The Left.

Spall near the begin, with some surrounding hollowness.







DESCRIPTION:

Span 2, end most Cantilever Support on the right.

Cracking, Spalling and exposed rebar with rust staining visible.



PHOTO NO:

DESCRIPTION:

Span 2 End Face Deck Support at Pier 1.

Cracking,
Spalling and
exposed
rebar. Section
loss with rust
staining
visible.







DESCRIPTION:

Pier 1, Span 2, End Face at the Left, Looking Towards The Begin.

Spalling



PHOTO NO:

DESCRIPTION:

Pier 1, Span 2 End Face at the Right, Looking Towards The Begin.

Spalling







DESCRIPTION:

End
Abutment at the Left,
Looking
Towards The End.

Spalling, cracking with some rust staining, and some areas of delaminations/ hollowness



PHOTO NO:

DESCRIPTION:

Pier 1, Span 1 Begin Face at the Right, Looking Towards The End.

Spalling with no exposed rebar.







DESCRIPTION:

Pier 1, Span 1 at the end, Looking Towards the End.

Deck support has spalling with cracking and rust staining on the begin face.



PHOTO NO:

10

DESCRIPTION:

Reinforced Concrete Approach Slab at the begin, Looking Towards The Left.

Spalling and patchwork exists.







11

DESCRIPTION:

Begin Deck Joint, Looking Towards the Left.

Pourable portion of the Joint is in poor condition



PHOTO NO:

12

DESCRIPTION:

End Joint, Looking Towards the Left.

Pourable portion of the Joint is in poor condition.







FIELD VISIT REPORT

BIN: 3301040 **Owner:** 30- County

Date and Time: 3/4/21, 10:20 to 11 AM

Weather Conditions: Clear, 34F Inspector: Michael Lemme

Computed Condition Rating: 4.947
Direction of Orientation: 2-NorthEast
Feature Carried: County Road 102
Feature Crossed: One Squethaw Creek

Preliminary Recommendations:

- Concrete repairs to the cap below the bridge rail (Photos 1 & 2)
- Heavy Stone filling for scour repair (see 2019 report)

Preliminary Cost Estimate: \$ 116,000

Field Visit Notes:

- Clean scuppers to reduce water ponding along shoulders (Photo 2).
- Remove and replace existing box beam bridge rail, bottom rail (Photos 3 & 4).
- Placing asphalt in the longitudinal joint between the edge of the wearing surface and curb, to reduce water infiltration into the Arch below (Photo 2 & 5).
- Re-pointing masonry joints with minor stone resets, at the wingwalls and headwalls (Photos 6, 7, 8 & 9).

Revised Cost Estimate: \$190,000

Potential Construction Related Issues:

Overhead utilities exist on bridge left.





1

DESCRIPTION:

Left Concrete Cap Below Bridge Rail, Looking Towards the Begin.

Repair cracks in concrete to reduce infiltration. Repair spalling exposing reinforcement



PHOTO NO:

DESCRIPTION:

Left Concrete Cap Below Bridge Rail, Looking Towards the End.

Repair cracks in cap to reduce infiltration & Seal the longitudinal joint at the edge of the wearing surface and edge of curb.







DESCRIPTION:

Bottom Bridge Rail, at the begin Right, Looking Towards the End.

Replace 50% of bottom rail due to corrosion.



PHOTO NO:

DESCRIPTION:

Bottom Bridge Rail, Looking Towards The End Left. End Right Similar.

Replace 50% of bottom rail due to corrosion.







DESCRIPTION:

Underside of Arch, Looking Towards The Begin.

Underside is damp.
Recommend sealing along the curb and edge of the wearing surface to reduce inflitration.



PHOTO NO:

6

DESCRIPTION:

End Right Wingwall, Looking Towards The Left.

Re-point masonry.







7

DESCRIPTION:

End Left Wingwall, Looking Towards The Right.

Re-point masonry.



PHOTO NO:

8

DESCRIPTION:

Left Headwall Beyond Midspan, Looking Towards The Right.

Re-point masonry and reset masonry stones.





11 British American Blvd. Suite 200 Latham, NY 12110 (518) 782-4500

PHOTO NO:

DESCRIPTION:

Right
Headwall
Beyond
Midspan,
Looking
Towards The
Begin Left.

Re-point masonry.





11 British American Blvd. Suite 200 Latham, NY 12110 (518) 782-4500

FIELD VISIT REPORT

BIN: 3301500

Feature Carried: Fox Creek Road (CR 352)

Feature Crossed: Fox Creek
Owner: Albany County

Date and Time: 3/3/2021 9:45 AM – 10:45 AM

Weather Conditions: 40 Clear
Inspector: Mark Fabend
Computed Condition Rating: 4.918 / 2019

Direction of Orientation: East

Preliminary Recommendations: Replace joint (PH 1), repair beam ends (PH 2), repaint fascia girders (PH 3), repair substructure concrete (PH 4)

Preliminary Cost Estimate: \$496,000

Field Visit Notes: Agree with preliminary recommendations except for replacing the Begin Joint since there is no evidence of leakage below deck and, therefore, the joint is watertight. (PH 5) The following additional areas requiring repairs were observed:

- Full height by approx. 1/8" wide vertical crack in Begin Abutment stem below Girder G5
- Full height by approx. 1/8" wide vertical crack in End Abutment stem below Girder G2 (PH 6)

Additional Recommendations: repair substructure concrete, no joint replacement, recommend adding Emseal type material (as discussed with Tony Fernandez in the field) to the gap between the bridge deck and cheekwall in all 4 quadrants to reduce drainage onto the fascia girder beam ends in all 4 quadrants

Revised Cost Estimate: \$552,000

Potential Construction Related Issues: No wetlands in vicinity of bridge, no significant ROW impacts, no OH utilities near bridge





1

DESCRIPTION:

Looking Towards Left Across Top of Begin Joint



PHOTO NO:

DESCRIPTION:

Looking
Towards Begin
Right at Left
Face of Girder
G1 at Begin
Abutment
(Other Fascia
Girder Beam
Ends Similar)







DESCRIPTION:

Looking
Towards Begin
Left Along
Right Face of
Girder G6
(Girder G1
Similar)



PHOTO NO:

4

DESCRIPTION:

Looking
Towards Begin
at Begin
Abutment
Stem and
Begin Right
Wingwall (End
Abutment
Spalling
Similar)







DESCRIPTION:

Looking
Towards Begin
at Lack of
Water
Leakage in
Girder Bay 1
(Typical
Condition)



PHOTO NO:

6

DESCRIPTION:

Looking
Towards End
at Top of End
Abutment
Stem Below
Girder G4
(Arrow
Indicates
Location of
Crack, Crack at
Begin
Abutment
Similar)





11 British American Blvd. Suite 200 Latham, NY 12110 (518) 782-4500

FIELD VISIT REPORT

BIN: 3301580

Feature Carried: CR 404 (Bear Swamp Road)

Feature Crossed: Basic Reservoir
Owner: Albany County

Date and Time: 3/3/2021 11:00 AM – 11:45 AM

Weather Conditions: 40 Clear
Inspector: Mark Fabend
Computed Condition Rating: 5.086 / 2019

Direction of Orientation: East

Preliminary Recommendations: Repair fascias with Item 582.07 (PH 1), replace wearing surface (PH 2), repair girders (undersides of girders inaccessible during this field visit due to minimal freeboard and unstable ice on reservoir), repair substructure concrete (PH 3)

Preliminary Cost Estimate: \$127,000

Field Visit Notes: Agree with preliminary recommendations. The following additional areas requiring repairs were observed:

- The asphalt pavement on both approaches is moderately cracked and should milled and filled, assume 200 ft long by 25 ft wide on each approach (PH 4)
- Approach guide rail posts should be reset and reconnected to the box beam guide rail approx. 75 ft length in each quadrant (PH 5)
- Recommend overhead patching (Item 582.07) and protective sealing (Item 559.16960118) for repairs to the undersides of the girders

Revised Cost Estimate: \$244,000

Potential Construction Related Issues: No wetlands in vicinity of bridge, no significant ROW impacts, no OH utilities near bridge. Limited (<12") freeboard will require reducing water level at the bridge to perform repairs.





1

DESCRIPTION:

Looking
Towards Right
at Left Fascia
Adjacent to
End Abutment
(Other
Locations
Similar at Each
Rail Post on
Both Fascias)



PHOTO NO:

2

DESCRIPTION:

Looking Towards End Left Across Top of Bridge







FIELD VISIT REPORT

BIN: 3302920
Owner: Albany County
Date and Time: 3/4/21 PM
Weather Conditions: Clear 35F

Inspector: Michael Lemme
Computed Condition Rating: 5.346 / 2019
Direction of Orientation: 3- East

Preliminary Recommendations:

- Replace existing bridge Rail with box beam rail.
- Replace wearing surface with new membrane.
- Add stone filling to address scour concerns.

Preliminary Cost Estimate: \$170,000

Field Visit Notes:

- A wearing surface was placed on the approaches and deck prior to the visit (Photo 1 &2). This appears to address the item shown in the preliminary estimate. Estimate revised.
- Some W-Rail and vertical posts were repaired in kind prior to the visit (Photo 2). Remaining rail on the left and right shows active corrosion and section loss (Photos 3 & 4). The revised estimate includes new box beam rail to be placed full length.

Revised Cost Estimate: \$133,000

Potential Construction Related Issues:

Overhead utilities exist on Bridge Right.





1

DESCRIPTION

End
Approach,
Looking
Towards The
Begin.

Asphalt
Wearing
Surface
Placed at the
approaches
and Deck



PHOTO NO:

2

DESCRIPTION

:

Current
Bridge Deck
Wearing
Surface,
Looking
Towards The
End.

Newley Placed Wearing Surface and Deficient Bridge Rail







DESCRIPTION

.

Right Bridge Rail, Looking Up And Towards The End

Replace Deficient Bridge Rail



PHOTO NO:

4

DESCRIPTION

:

Left Bridge Rail, Looking Up and Towards The End

Replace Deficient Bridge Rail







3

DESCRIPTION:

Looking Towards Begin at Begin Left Wingwall Adjacent to Bridge



PHOTO NO:

1

DESCRIPTION:

Looking at End Approach From Bridge (Begin Approach Similar)







DESCRIPTION:

Looking at End Left Approach Railing From Bridge (Other Quadrants Similar)







FIELD VISIT REPORT

BIN: 2202830

FEATURE CARRIED: Hans Creek Road FEATURE CROSSED: Hans Creek

Town/ City: Town of Providence
Owner: Saratoga County

Date and Time: 3/10/2021 9:20 AM – 10:20 AM

Weather Conditions: 30° F Sunny Inspector: Hao Cui
Computed Condition Rating: 4.021 / 2020

Direction of Orientation: East

Preliminary Recommendations: Major Rehab: Superstructure Replacement

Preliminary Cost Estimate: \$700,000

Field Visit Notes: The following repairs are included in 2020 Item specific recommendations:

- All concrete beams have efflorescence leakage between the beams. There are reflective cracks
 in the wearing surface above indicating the shear keys have failed and are allowing some
 movement (PH 1 & 2). Removing existing asphalt wearing surface and placing a new
 concrete wearing surface are recommended.
- Begin and end abutment stem exhibit multiple up to 1/8" wide x full height vertical cracks (PH 4). The begin and end abutment left and right cheek walls exhibit spalls (PH 3). Repairing the vertical cracks (Class D concrete repair) in the abutments and repairing the cheek wall spalls (Class A or Class D concrete repair depends on depth of spalls) are recommended.

Revised Cost Estimate: \$209,000

Potential Construction Related Issues:

- No Wetland in the immediate vicinity of the bridge.
- Driveway adjacent to bridge at begin left and begin right quadrant, no other significant ROW impacts. The bridge has an utility conduit at the right fascia which is no longer attached and sagging (PH 5). In addition, the bridge has an overhead utility on the left side but does not appear to significantly affect proposed construction (PH 6).
- The length of the available construction detour is approximately 4 miles as per NYSDOT bridge inventory data.





DESCRIPTION:

The deck wearing surface (Looking towards end left).



PHOTO NO:

DESCRIPTION:

Typical framing (Looking towards end left).







DESCRIPTION:

End abutment left cheek wall (Looking towards end).



PHOTO NO:

DESCRIPTION: Begin

abutment (Looking towards begin right).







DESCRIPTION:

Right fascia utility (Looking towards end).



PHOTO NO: 6

DESCRIPTION:

End Approach.





FIELD VISIT REPORT

BIN: 2202970
FEATURE CARRIED: Viall Avenue
FEATURE CROSSED: Anthony Kill

Town/City: City of Mechanicville
Owner: Saratoga County

Date and Time: 3/8/2021 8:45 AM – 10:15 AM

Weather Conditions:23°F SunnyInspector:Hao CuiComputed Condition Rating:4.167 / 2020

Direction of Orientation: North

Preliminary Recommendations: Item Specific: Replace Asphalt WS, Place Stone Fill

Preliminary Cost Estimate: \$100,000

Field Visit Notes: Field conditions appear to agree with the previous assessment. The following repairs are included in 2020 minor rehab recommendations:

- Begin left and begin right approach sidewalks are heavily cracked (PH 1). Installing 15' new concrete sidewalk on each side of begin approach is recommended.
- Wearing surface along the center near begin is heavily cracked and settled up to 2" for approximately 15'L x 3'-5' W area (PH 2). The end approach wearing surface is similar. The condition is possibly due to underlying roadway subbase and/or drainage issues. Although a new wearing surface overlay was placed in 2018, a full depth pavement reconstruction over the arch, potentially adding underdrains is recommended.
- Scour with localized undermining along the begin and end abutment footings were reported in general inspections (PH 3). The begin left, end left and end right streambanks exhibit signs of erosion (PH 6). Adding stone bank protection (medium stone fill) in these areas is recommended.
- Begin right wingwall is spalled at the bottom near the middle (PH 4). The end left wingwall is spalled at the end corner. Class A concrete repair is recommended.
- The end right side of the arch near scour apron is spalled (PH 5). Class A concrete repair is recommended.

Revised Cost Estimate: \$279,000





Potential Construction Related Issues:

- Driveway immediately adjacent to bridge at all four quadrants. OH utilities on the left side of the bridge. Temporary removal of the pedestrian fence is needed to gain access for construction. Temporary construction easements maybe required to gain access below the bridge.
- Based on environmental resource mapper, this location is in the vicinity of animals listed as endangered or threatened contact NYSDEC Regional Office for more information.
- The length of the available construction detour is approximately 2 miles as per NYSDOT bridge inventory data.



DESCRIPTION:

Begin right approach sidewalk, begin left approach sidewalk similar (looking towards begin).

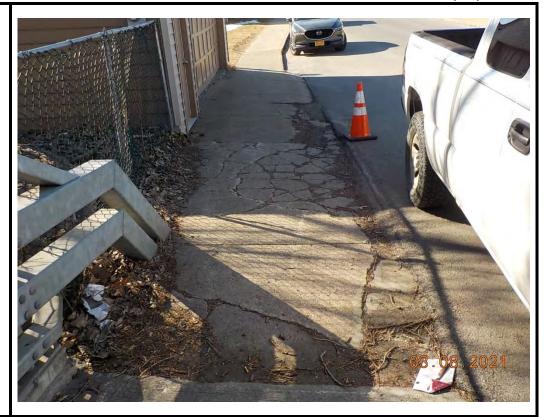


PHOTO NO:

2

DESCRIPTION:

Wearing surface along the center near the begin (looking towards right).





DESCRIPTION:

The end abutment footing, begin footing is similar (Looking towards right).



PHOTO NO:

4

DESCRIPTION:

Begin right wingwall (looking towards begin left).







5

DESCRIPTION:

End right side of arch at the bottom (looking towards end).



PHOTO NO:

DESCRIPTION:

End right stone bank protection (looking towards end right).







FIELD VISIT REPORT

BIN: 3304210

FEATURE CARRIED: S. Shore Rd (CR 7)

FEATURE CROSSED: Daly Creek
Town/ City: Town of Day
Owner: Saratoga County

Date and Time: 3/10/2021 12:00 PM – 1:30 PM

Weather Conditions: 40° F Sunny Inspector: Hao Cui
Computed Condition Rating: 6.304 / 2020
Direction of Orientation: Northeast

Preliminary Recommendations: Not Reviewed

Preliminary Cost Estimate: N/A

Field Visit Notes:

Work strategy (Option 1): Minor Rehabilitation to address immediate end abutment scour issue and redirect stream flow. The following repairs are recommended:

- The left and right bridge curbs exhibit gaps/separations but currently are not significantly loose (PH 1). Resetting of bridge curb is recommended.
- The begin left and right approach guide railing exhibit impact damage (PH 2). Repair of the guide railing is recommended.
- The end side of the pier foundation and end abutment exhibit significant of scour and undermining (PH 3 & 4). The end abutment footing is undermined as per 2020 general inspection and diving inspection reports (condition could not be verified during 2021 field visit due to snow/ice cover and water depth. No sign of repair works was observed). Undermining/Scour repair at the end abutment and the end side of the pier is recommended.
- Installing rock vanes with bank protections at the upstream channel to re-direct streamflow to the center of the bridge opening.

Cost Estimate: \$261,000



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Work strategy (Option 2): Full replacement of the existing structure with stream re-alignment.

- According to a nearby resident, the bridge is frequently overtopped/near overtopped during flood events. Significant bank erosion on the upstream channel provides additional confirmation of the increased streamflow experienced at this site. Replacement of the existing bridge with a one-span bridge structure should be considered to alleviate the severe scour and overtopping issues that are occurring with the existing two span structure. This option should be pursued on an expedited schedule before it becomes an emergency repair situation due to failure of the existing bridge. Stream channel re-alignment and restoration (rock vane, bank protection, debris clean, etc) are also recommended.

Cost Estimate: \$2,565,558

Potential Construction Related Issues:

- No Wetland in the immediate vicinity of the bridge.
- No significant ROW impacts. No OH utilities near the bridge.
- The length of the available construction detour is approximately 11 miles.





DESCRIPTION:

Left bridge curb near the end, right curb similar (Looking towards begin).



PHOTO NO:

DESCRIPTION:

Begin left approach guide railing, begin right similar (Looking towards begin left).







DESCRIPTION: End abutment (Looking towards end right).

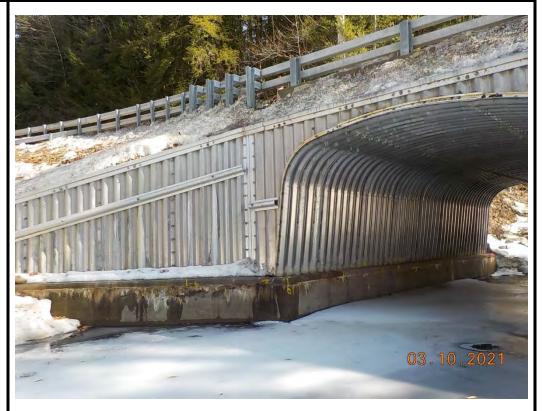


PHOTO NO:

DESCRIPTION:

General view of pier foundation (Looking towards end right).







FIELD VISIT REPORT

BIN: 3304520

FEATURE CARRIED: Heath Road

FEATURE CROSSED: Sturdevant Creek

Town of Corinth

Town/ City: Town of Corinth
Owner: Saratoga County

Date and Time: 3/8/2021 11:45 AM – 1:00 PM

Weather Conditions:31°F SunnyInspector:Hao CuiComputed Condition Rating:4.771 / 2020

Direction of Orientation: North

Preliminary Recommendations: Major Rehab: Superstructure Replacement, Reshape Channel

Preliminary Cost Estimate: \$400,000

Field Visit Notes: Field conditions appear to agree with the preliminary assessment. Based on the indepth assessment, the recommended bridge preservation approach has been changed to a minor rehabilitation that includes the following repairs:

- There is leakage between the longitudinal joints, as well as some rust stained leakage from the beam drains (PH 1). Beam B5 is spalled near the end (appears to be as-built condition, PH 2). There are reflective cracks in the wearing surface above indicating the shear keys have failed and are allowing some movement (PH 3). Removing the existing asphalt wearing surface and placing a new concrete wearing surface are recommended.
- Begin and end abutment stem and wingwalls exhibit multiple up to 1/8" wide x 1/2 to full stem width horizontal cracks (PH 4). Class A concrete repair is recommended.
- Waterway opening is reduced due to a silt/vegetation island built up under the bridge. In addition, the stream alignment has resulted in bank erosion and substructure footing exposure (PH 5 & 6). Stream channel regrading with stone bank protection is recommended.
- The bridge has a build-up of sand debris along the curb and the curb is trapping drainage on the deck, leading to leakage through the beam shear keys (PH 7). Removing curb to improve drainage is recommended.

Revised Cost Estimate: \$306,000



Potential Construction Related Issues:

- Based on environmental resource mapper, this bridge is in the vicinity of one or more Regulated Freshwater Wetlands. Contact NYSDEC Regional Office for more details.
- No significant ROW impacts. The bridge has an utility conduit along the fascia (PH 7). There are no overhead utilities near the bridge (PH 8).
- The length of the available construction detour is approximately 7 miles as per NYSDOT bridge inventory data.





DESCRIPTION:

Typical framing (Looking towards begin).



PHOTO NO:

2

DESCRIPTION:

Left edge of Beam 5 near the end (Looking towards left).





DESCRIPTION:

The deck wearing surface (Looking towards begin right).



PHOTO NO:

4

DESCRIPTION:

End abutment stem near the middle (looking towards end).





DESCRIPTION:

Upstream Channel (Looking towards left).

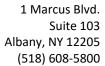


PHOTO NO: 6

DESCRIPTION:

Left elevation (Looking towards right).







DESCRIPTION: Utility at left fascia, Debris along the curb (Looking towards begin

left).



PHOTO NO: 8

DESCRIPTION: End approach





FIELD VISIT REPORT

BIN: 3304560

FEATURE CARRIED: CR 49 W Milton Rd
FEATURE CROSSED: Kayaderosseras Ck
Town/ City: Town of Milton
Owner: Saratoga County

Date and Time: 3/8/2021 10:30 AM – 11:30 AM

Weather Conditions: 27°F Sunny
Inspector: Hao Cui
Computed Condition Rating: 4.654 / 2020
Direction of Orientation: Northeast

Preliminary Recommendations: Minor Rehab: Reconstruct Approaches (PH 1), Replace Joints, Paint

Girder Ends

Preliminary Cost Estimate: \$300,000

Field Visit Notes: Minor Rehab is recommended based on 2020 review as follows:

- Both approach pavements are cracked and/or settled up to 2" (PH 1). Replacing existing deck and approach wearing surface is recommended.
- The begin left, end left and end right guide railings exhibit impact damages (PH 2). Repairing guide railing is recommended.
- The begin and end abutments exhibit random spalls up to 4" deep (PH 3 & 4). Concrete repair (Class D) is recommended.
- The steel protective coating (patina) is in poor or failed condition throughout (PH 5 & 6). The condition is worse at the exterior side of fascia girders and girder ends. Painting of those areas is recommended.
- All bearings are rusted with thin delaminations to steel plates and minor section losses (PH
 7). Cleaning and lubricating all bearings are recommended.
- All steel backwalls are rusted with thin delaminations to steel plates and minor section losses (PH 8). Replacing steel backwalls with new concrete backwall to improve drainage over abutment is recommended.
- Girders G1 and G6 pedestal at the end abutment exhibit spalls up to 4" deep (PH 9). Concrete repair (Class D) is recommended.
- The streambank adjacent to the end right wingwall exhibits signs of erosion. Adding stone bank protection in this area is recommended (PH 10)



Revised Cost Estimate: \$ 367,000

Potential Construction Related Issues:

- This location is in the vicinity of one or more Regulated Freshwater Wetlands. No significant ROW impacts. No OH utilities near the bridge.
- The length of the available construction detour is approximately 3 miles as per NYSDOT bridge inventory data.



DESCRIPTION:

Begin approach wearing surface, end approach similar (looking towards left).

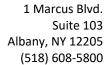


PHOTO NO:

DESCRIPTION:

Begin left guide railing (looking towards begin left)







DESCRIPTION: End abutment stem (looking towards end right).



PHOTO NO:

DESCRIPTION:Begin

abutment stem (looking towards begin)







DESCRIPTION:

Typical framing (looking towards begin).



PHOTO NO:

DESCRIPTION:

The steel protective coating of Girder G6 (looking towards end left).





DESCRIPTION: Girder G1 bearing at end abutment (Looking towards end right).



PHOTO NO:

DESCRIPTION: End abutment backwall at left fascia, typ. (looking towards end right).





DESCRIPTION:

Girder G1
pedestal at
end
abutment, G6
pedestal
similar but
less severe
(Looking
towards end
end).



PHOTO NO: 10

DESCRIPTION:

End right bank (Looking towards end right).





FIELD VISIT REPORT

BIN: 3304790

FEATURE CARRIED: North Shore Road
FEATURE CROSSED: Beecher Creek
Town/ City: Town of Edinburg
Owner: Saratoga County

Date and Time: 3/10/2021 10:35 AM – 11:45 AM

Weather Conditions:39° F SunnyInspector:Hao CuiComputed Condition Rating:3.667 / 2020Direction of Orientation:Northeast

Preliminary Recommendations: Item Specific: Steel Repairs, Rebuild/Repoint Masonry

Preliminary Cost Estimate: \$150,000

Field Visit Notes: Field conditions appear to agree with the previous assessment. The following repairs are included in 2020 minor rehab recommendations:

- Bridge is composed of two types of primary members.

The underside of the stone masonry arch on the left side exhibits longitudinal cracks up to 3" wide along the left fascia (PH 1). There are several small loose stones along the cracks. The left spandrel wall exhibits up to ½" wide crack on the end side (PH 1). These cracks were first reported in the 2006 inspection and are progressively getting wider since then. The spandrel wall also bulges 4" near the end. Active leaking through the left headwall is noticed near the begin and end (PH 2). The capstones are missing along the arch and end left wingwall. Rebuilding/Repairing/Repointing stone masonry arch is recommended.

The steel arch on the right side exhibits corrosion with perforations along the begin and end footings (PH 3). The worst conditions were observed on the right side. Concrete encasement for the lower 1' of the steel arch is recommended.

- The right concrete headwall near the end exhibits up to 1/8" wide diagonal cracks (PH 4). Class D concrete repair of the right headwall is recommended.
- The begin scour apron exhibit cracks and spalls near the left side (PH 5). Class D concrete repair of the begin scour apron is recommended.
- The begin right, end left and end right streambanks exhibit signs of erosion. The existing stone protection is displaced. The begin left wingwall is undermined due to erosion. Adding stone bank protection in these areas is recommended (PH 6)

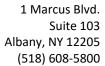


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- The end left and end right guide railings exhibit impact damages (PH 7). Many of the left and right deck railing posts are not connected and leaning away. Replacement of the guide railing is recommended.
- The approach and deck wearing surface exhibits up to 1/8" wide cracks for approximately 40% of area. Replacing the wearing surface is recommended (PH 8).

Revised Cost Estimate: \$ 438,000

Potential Construction Related Issues: There are no wetlands near the vicinity of the bridge. No significant ROW impacts. No OH utilities near the bridge appear to affect the minor rehab works. The bridge is possibly registered as a historical bridge.





DESCRIPTION:

The left side of the stone masonry arch (Looking towards end).

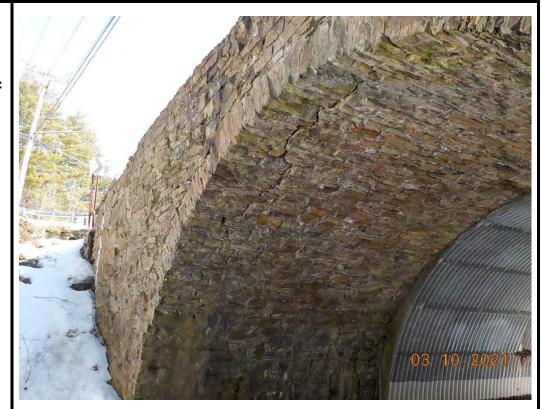


PHOTO NO:

DESCRIPTION:

The stone masonry arch spandrel wall near the begin (Looking towards right).





3

DESCRIPTION:

The steel arch at the begin, end side is similar (Looking towards begin right).

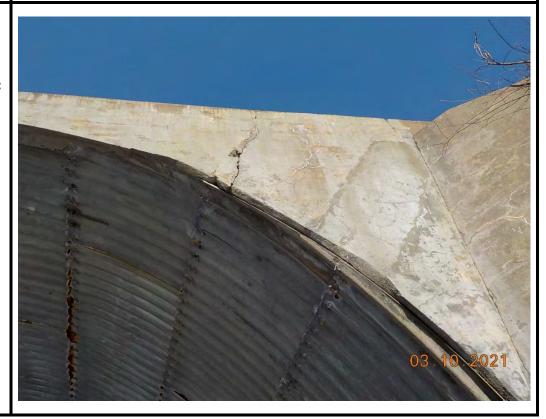


PHOTO NO:

4

DESCRIPTION:

The right concrete headwall near end abutment (looking towards left).





DESCRIPTION:

The concrete apron of the begin footing (Looking towards right).



PHOTO NO: 6

DESCRIPTION:

The end left streambank (Looking towards end left).





DESCRIPTION:

The end right approach guide railing (looking towards begin left).



PHOTO NO:

DESCRIPTION:

The deck wearing surface (Looking towards begin right).







FIELD VISIT REPORT

BIN: 2203110

Owner: City of Schenectady

Date and Time: 2/26/21 & 3/5/21

Weather Conditions: 25F, partly clear

Inspector: Michael Lemme

Computed Condition Rating: 3.774 / 2020 Direction of Orientation:2-NorthEast

Preliminary Recommendations:

Major Rehabilitation including a superstructure replacement with substructure repairs.

Preliminary Cost Estimate: \$ 2,223,000

Field Visit Notes:

The field visit confirmed the conditions as detailed in the 2020 inspection report.

At the time of the review, the NYSDOT PEW Work Sheet was referenced to estimate the cost of a full replacement, +/- \$3.0m is estimated, plus the potential cost for any required approach work. Due to the significant cost difference, a Major Rehabilitation is assumed to be preferred method of repair.

Revised Cost Estimate: No change.

Potential Construction Related Issues:

Featured Crossed is railroad property and requires permission and access costs. Residence at end left with nearby overhead utilities.





1

DESCRIPTION

:

Span 2 Framing, Looking Towards The Begin.

Corner Spalling, soft concrete, and widespread tight cracking



PHOTO NO:

DESCRIPTION

Span 2 Below Deck, Between Beams 9 & 10,

Corner Spalling, soft concrete, and widespread tight cracking







DESCRIPTION

:
Bridge
Wearing
Surface,
Looking
Towards The
Begin.

Longitudinal reflective cracking along beam joints



PHOTO NO:

4
DESCRIPTION:
Right
Elevation,
Looking
Towards the
Left.

Special Access Required for RR property Access







DESCRIPTION

.

Pier 2 Begin Face, Looking Towards The End.

The Cap Beam and Column #2 has hollowness, rust staining, and spalling with exposed rebar.



PHOTO NO:

DESCRIPTION

Pier 2, Column 2 Begin Face, Looking Towards The End.

Advanced Column Deterioration







FIELD VISIT REPORT

BIN: 3050510

Feature Carried: Rosendale Road

Feature Crossed: Lisha Kill

Owner: Schenectady County

Date and Time: $3/1/2021 \ 9:45 \ AM - 11:00 \ AM$

Weather Conditions:40 OvercastInspector:Mark FabendComputed Condition Rating:5.846 / 2019

Direction of Orientation: North

Preliminary Recommendations: Repair concrete deck overhangs and fascias (PH 1), scour repairs, armor stream banks (PH 2), repair 2 pedestals (PH 3)

Preliminary Cost Estimate: \$78,000

Field Visit Notes: Agree with preliminary recommendations. The following additional areas requiring repairs were observed:

- 2 ft long hairline crack with heavy rust leakage and efflorescence on Begin Abutment stem below Girders G8 and G9 (PH 4)
- 12" high by 4" wide by up to 4" deep spall with no exposed rebar and rust bleed below the spall at the Right corner of the End Abutment (PH 5)
- 3 ft long by 1/8" wide horizontal crack at top of End Abutment stem below Girder G4 (PH 6)
- Leakage and light efflorescence between Girders G5 and G6 and between Girders G6 and G7 for near full length (PH 7) and between all girders adjacent to the End Abutment. To address, recommend replacing wearing surface and installing waterproofing membrane in addition to protective sealing of the existing bridge deck, fascias and outboard faces of the fascia girders.
- Large trees fallen into and across downstream channel (PH 8)

Revised Cost Estimate: \$199,000

Potential Construction Related Issues: Wetland downstream and adjacent to bridge prevents removal of fallen logs, driveway immediately adjacent to bridge in Begin Left quadrant, no significant ROW impacts, no OH utilities near bridge





1

DESCRIPTION:

Looking Towards Begin Along Left Fascia (Right Fascia Similar But Less Severe)



PHOTO NO:

DESCRIPTION:

Looking at End Right Stream Bank (Other Locations Similar)







РНОТО NO:

3

DESCRIPTION:

Looking
Towards Left
at Right Face
of Girder G4
Pedestal
(Girder G9
Pedestal
Similar)



PHOTO NO:

4

DESCRIPTION:

Looking
Towards Begin
at Begin
Abutment
Stem Below
Girders G8
and G9







DESCRIPTION:

Looking Towards End at Top of End Abutment Stem Below Girder G4



PHOTO NO:

DESCRIPTION:

Looking Towards End at Right Corner of End Abutment







7

DESCRIPTION:

Looking Towards End at Underside of Girders G6 and G7



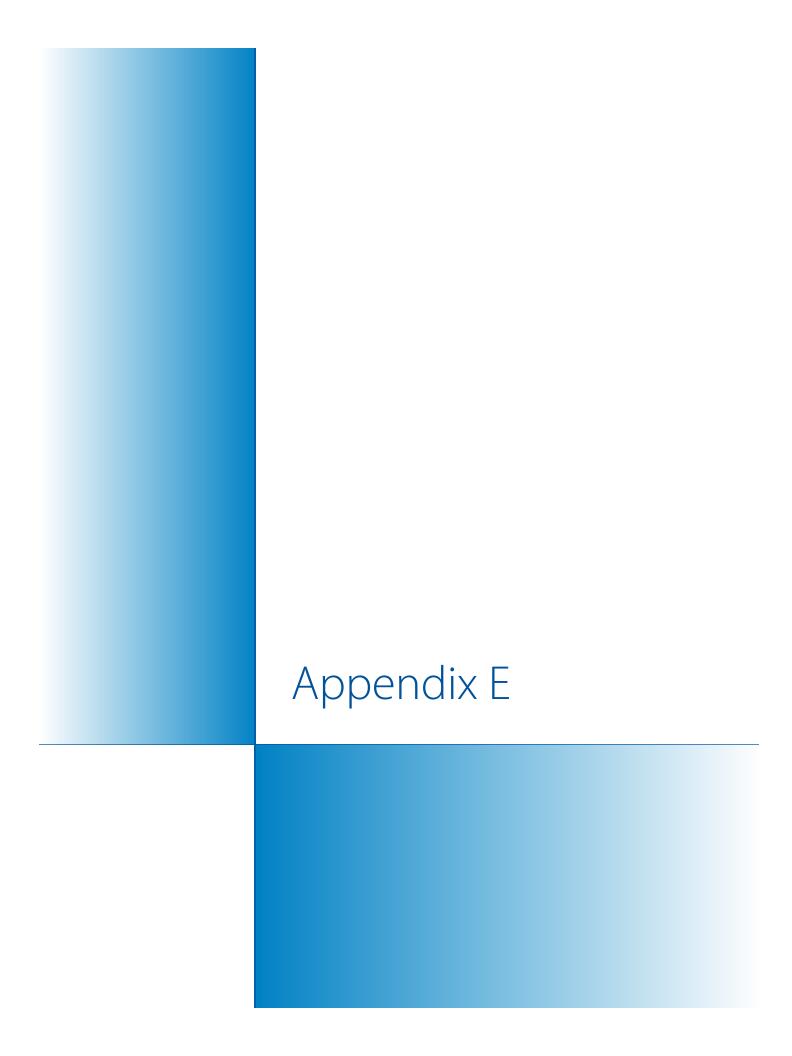
PHOTO NO:

8

DESCRIPTION:

Looking Right From Bridge at Downstream Channel

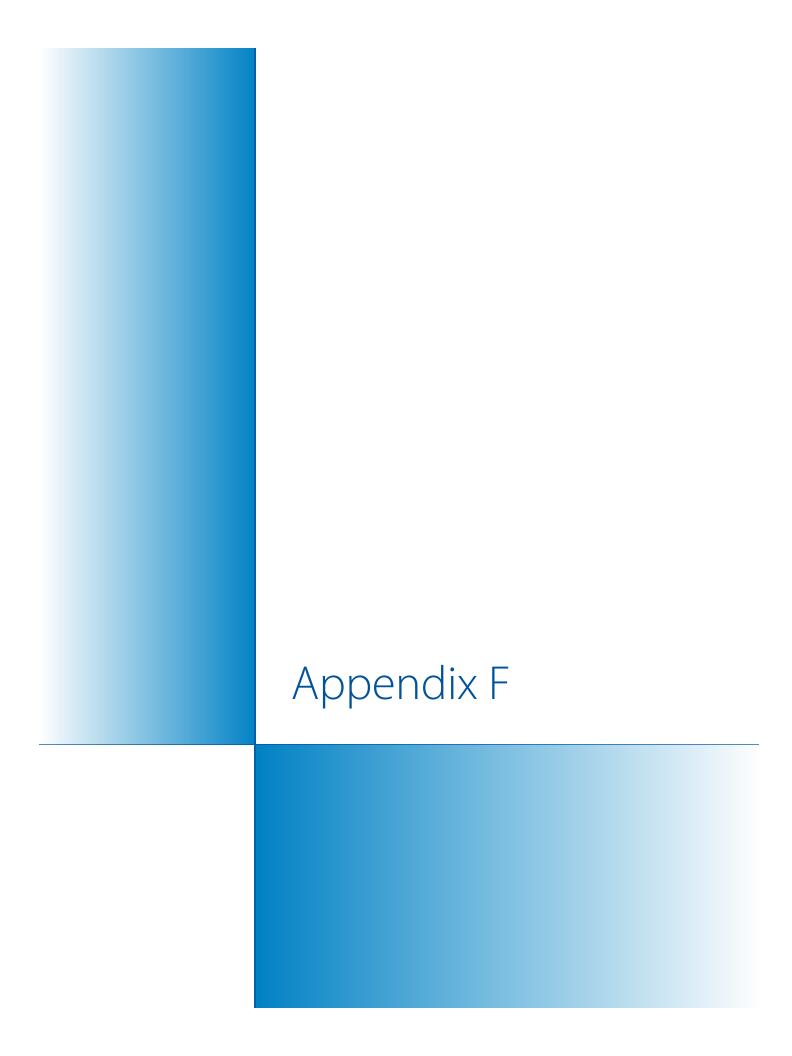




CDTC BRIDGE PRESERVATION STUDY ESTIMATED SERVICE LIFE

The estimated service life for common repairs and work strategies is indicated below. The estimated service lives indicated below are based on information obtained from the NYSDOT Fundamentals of Bridge Maintenance & Inspection Manual and the NYSDOT Deck Evaluation Manual. Service life is defined as the length of time that a particular treatment will last before additional work is required.

Specific Items	Service Life (Years)
Wash Bridge	2
Seal Deck	4
Clean/Lubricate Bearings	4
Replace Joints	5
Place/Replace Asphalt Wearing Surface	12
Paint	12
Place/Replace Concrete Overlay Wearing Surface	30
Work Strategies	Service Life
Work Strategies	(Years)
Replacement	75
Major Rehabilitation – Superstructure Replacement	50
Major Rehabilitation – Deck Replacement	40
Minor Rehabilitation	See Above for
	Specific Elements
Preventative Maintenance	See Above for
	Specific Elements



CDTC BRIDGE PRESERVATION STUDY CALCULATING THE COMPUTED CONDITION RATING

To assist with evaluating bridge improvements in relation to the Computed Condition Rating (CCR), a spreadsheet calculation was developed to predict the overall rating based on improvements made to individual bridge elements. The cost of the proposed repair could then be evaluated versus the potential benefit based on the new CCR. The spreadsheet calculation is based on the procedure outlined in the New York State Department of Transportation Structures Management Manual, August 2010, Appendix C and information provided by NYSDOT. Shown here, the CCR is computed as a numerical value utilizing a structural condition formula. The formula uses 13 bridge elements considered most important for the bridge evaluation. Element values are then weighted in proportion to importance with the values summed and divided by the sum of the weighted values. The result is a CCR for the rehabilitated bridge. Elements not considered in the condition rating formula include erosion and scour, stream hydraulics, approach items, bridge rail, scuppers and downspouts, medians, paint, lighting, sign structures and utilities and supports. Elements considered in the general recommendation and the associated weighted values are listed below:

Element	Weighted Value
Primary Members	10
Abutments	8
Piers	8
Structural Deck	8
Bridge Seats/Pedestals	6
Bearings	6
Wingwalls	5
Backwalls	5
Secondary Members	5
Joints	4
Wearing Surface	4
Sidewalks	2
Curbs	1
Total:	72

In order to convert from the current Condition State rating system to the older 1-7 rating system, weighted values needed to be used. These weighted values are based on a combination of the individual element's weight as listed above and the percentages of the ratings which fall into each of the condition states. Once an equivalent 1-7 rating is calculated, the formula calculates the CCR. The following list, provides the weight values for the current NYSDOT elements:

Element	Weighted Value
12 - Reinforced Concrete Deck	8
13 - Prestressed Concrete Deck	8
15 - Prestressed Concrete Top Flange	8

16 - Reinforced Concrete Top Flange	8
28 - Steel Deck with Open Grid	8
29 - Steel Deck with Concrete Filled Grid	8
30 - Steel Deck Corrugated/Orthotropic/Etc.	8
31 - Timber Deck	8
38 - Reinforced Concrete Slab	10
54 - Timber Slab	10
60 - Other Deck	8
65 - Other Slab	10
104 - Prestressed Concrete Closed Web/Box Girder	10
105 - Reinforced Concrete Concrete Web/Box Girder	10
107 - Steel Open Girder/Beam	10
109 - Prestressed Concrete Open Girder/Beam	10
110- Reinforced Concrete Open Girder/Beam	10
111 - Timber Open Girder/Beam	10
113 - Steel Stringer	10
117 - Timber Stringer	10
120 - Steel Truss	10
135 - Timber Truss	10
144 - Reinforced Concrete Arch	10
145 - Masonry Arch	10
152 - Steel Floor Beam	10
156 - Timber Floor Beam	10
162 - Steel Gusset Plate	10
202 - Steel Column	8
205 - Reinforced Concrete Column	8
210 - Reinforced Concrete Pier Wall	8
213 - Masonry Pier Wall	8
215 - Reinforced Concrete Abutment	8
216 - Timber Abutment	8
217 - Masonry Abutment	8
218 - Other Abutment	8
219 - Steel Abutment	8
220 - Reinforced Concrete Pile Cap/Footing	5
225 - Steel Pile	5
227 - Reinforced Concrete Pile	5
228 - Timber Pile	5
229 - Other Pile	5
231 - Steel Pier Cap	5
234 - Reinforced Concrete Pier Cap	5
240 - Steel Culvert	10

241 - Reinforced Concrete Culvert	10
243 - Other Culvert	10
244 - Masonry Culvert	10
300 - Strip Seal Expansion Joint	4
301 - Pourable Joint Seal	4
302 - Compression Joint Seal	4
303 - Assembly Joint with Seal	4
304 - Open Expansion Joint	4
305 - Assembly Joint without Seal	4
306 - Other Joint	4
310 - Elastomeric Bearing	6
311 - Movable Bearing	6
312 - Enclosed/Concealed Bearing	6
313 - Fixed Bearing	6
314 - Pot Bearing	6
315 - Disk Bearing	6
316 - Other Bearing	6
321 - Reinforced Concrete Approach Slab	8
330 - Metal Bridge Railing	4
331 - Reinforced Concrete Bridge Railing	4
332 - Timber Bridge Railing	4
334 - Masonry Bridge Railing	4
510 - Wearing Surfaces	4
515 - Steel Protective Coating	5
800 - Erosion or Scour	6
801 - Stream Hydraulics	5
810 - Sidewalk	2
811 - Curb	1
830 - Secondary Members	5
831 - Steel Beam End	0
850 - Backwall	5
851 - Abutment Pedestal	6
852 - Pier Pedestal	6
853 - Wingwall	8
860 - Headwall	8

