

Capital District
 Transportation Committee

February 23, 2023

Amendments to the 2022-27 TIP

At its February 2, 2023 meeting, the CDTC Planning Committee recommended eight projects for funding through the Bridge NY program. Upon approval, the following projects will be added to the Transportation Improvement Program (TIP) by amendment.

1. TIP# A630, PIN (TBD), CR 352 over Fox Creek Bridge Replacement, BIN 3301500, Town of Rensselaerville, Albany County

The County proposes a full replacement of this structure to address observed flooding issues caused by the inadequate hydraulic opening, as well as the scour vulnerability due to the shallow foundations on soil. This is an important County Road through the Hilltown’s of Albany County, and while the reported detour is 3 miles, it utilizes a narrow Town road not appropriate for a long-term detour that would need to carry upwards of 10% truck traffic. A detour utilizing County Roads and/or State Routes would be over 17 miles.

The amendment is detailed in the table below.

Project Sponsor: Albany County
 Project Location: Town of Rensselaerville
 Project Air Quality Code: A19

TIP #	PIN	Proposed TIP Data			
		Phase	Fund Source	FFY	Cost (\$M)
A630	TBD	P	Bridge Formula Program (BFP)*	22-23	0.130
		D	Bridge Formula Program (BFP)*	22-23	0.130
		R	Bridge Formula Program (BFP)*	23-24	0.032
		CI	Bridge Formula Program (BFP)*	23-24	0.240
		C	Bridge Formula Program (BFP)*	23-24	2.071
		Total			

**The specific BFP subset is not available at this time (i.e. Urban, Rural, Off-system etc.)*

2. TIP# R356, PIN (TBD), 1st and 2nd Streets over Ferry Street Bridge Rehabilitation, BIN 1054320, City of Troy, Rensselaer County

The city proposes rehabilitation of all deteriorated structural concrete to increase the lifespan of the structure.

The project scope includes:

- Replace portions of the top slab of the concrete box structure in the areas of most severe deterioration beneath 1st and 2nd streets. This will involve excavating down from the city streets above and will require an off-site detour. While excavated, sheet membrane waterproofing will also be added to the top of these panels to limit future water infiltration.
- Perform localized Class D concrete and overhead repairs of other areas of deterioration.
- Inject urethane into the soil at each roof joint to waterproof the joints that will not be protected by waterproofing membrane.
- Repair the spalls and seal the cracks in the structure bottom slab (roadway surface) and apply a concrete sealer to the surface across the entire structure length and roadway width.
- Lane shifts will be utilized for minor repairs and a detour established for top slab replacements.

The amendment is detailed in the table below.

Project Sponsor: City of Troy
 Project Location: City of Troy
 Project Air Quality Code: A19

TIP #	PIN	Proposed TIP Data			
		Phase	Fund Source	FFY	Cost (\$M)
R356	TBD	P	Bridge Formula Program (BFP)*	22-23	0.095
		D	Bridge Formula Program (BFP)*	22-23	0.095
		CI	Bridge Formula Program (BFP)*	23-24	0.250
		C	Bridge Formula Program (BFP)*	23-24	1.960
		Total			
<i>*The specific BFP subset is not available at this time (i.e. Urban, Rural, Off-system etc.)</i>					

3. TIP# R357, PIN (TBD), Washington Street Bridge Replacement, BIN 2202260, City of Rensselaer, Rensselaer County

The existing concrete deck, sidewalks, bridge railing and approach railing will be removed. The wingwalls will have concrete removed and replaced with Class D concrete. The masonry abutments will have their joints repointed. The longitudinal beam joints will be cleaned out and replaced with UHPC. The new deck and sidewalks will be poured with Class HP concrete. New granite curb will tie into the existing curbing. New 4-rail steel bridge, standard transitions, approach rail and end sections will be installed. There are several utilities attached to the deck with brackets. These will be temporarily supported during construction and new brackets will be anchored into the new deck. Utilities will be coordinated with but no disruption in service is expected. New fencing will be attached to the wingwalls to match existing. The bridge will be closed during construction and traffic detoured with an off-site detour.

The amendment is detailed in the table below.

Project Sponsor: City of Rensselaer
 Project Location: City of Rensselaer
 Project Air Quality Code: A19

TIP #	PIN	Proposed TIP Data			
		Phase	Fund Source	FFY	Cost (\$M)
R357	TBD	P	Bridge Formula Program (BFP)*	22-23	0.076
		D	Bridge Formula Program (BFP)*	22-23	0.076
		R	Bridge Formula Program (BFP)*	23-24	0.018
		CI	Bridge Formula Program (BFP)*	23-24	0.098
		C	Bridge Formula Program (BFP)*	23-24	0.556
		Total			
*The specific BFP subset is not available at this time (i.e. Urban, Rural, Off-system etc.)					

4. TIP# R358, PIN (TBD), Plank Road Bridge Replacement, BIN 3303650, Town of Poestenkill, Rensselaer County

This project will include removal of the existing structure, installing new steel H-piles, reinforced concrete abutments, galvanized steel beams, composite concrete deck and approach slabs, steel bridge, transition, and approach rail as well as medium stone fill. Other improvements include an increased span length to improve hydraulic opening, jointless deck details and an increased width to provide two 11'-0" travel lanes and two 3'-0" shoulders. Construction is assumed to be performed under a complete closure with a signed detour route. There are overhead utilities that cross diagonally across the bridge that will be relocated prior to construction commencing.

The amendment is detailed in the table below.

Project Sponsor: Rensselaer County
 Project Location: Town of Poestenkill
 Project Air Quality Code: A19

TIP #	PIN	Proposed TIP Data			
		Phase	Fund Source	FFY	Cost (\$M)
R358	TBD	P	Bridge Formula Program (BFP)*	22-23	0.245
		D	Bridge Formula Program (BFP)*	22-23	0.245
		R	Bridge Formula Program (BFP)*	23-24	0.058
		CI	Bridge Formula Program (BFP)*	23-24	0.242
		C	Bridge Formula Program (BFP)*	23-24	1.853
		Total			
*The specific BFP subset is not available at this time (i.e. Urban, Rural, Off-system etc.)					

5. TIP# R359, PIN (TBD), Thais Road Bridge Replacement, BIN 2201980, Town of Sand Lake, Rensselaer County

The project will include complete replacement of the bridge including substructures and superstructure on new alignment adjacent to the existing bridge. This allows for better alignment of the roadway and reconfiguration of the intersection to provide better turning radii for trucks as the Sand Lake Town Highway garage is located nearby. The structure type recommended is a precast voided slab on pile supported concrete abutments.

The amendment is detailed in the table below.

Project Sponsor: Town of Sand Lake
 Project Location: Town of Sand Lake
 Project Air Quality Code: A19

TIP #	PIN	Proposed TIP Data			
		Phase	Fund Source	FFY	Cost (\$M)
R359	TBD	P	Bridge Formula Program (BFP)*	22-23	0.150
		D	Bridge Formula Program (BFP)*	22-23	0.150
		R	Bridge Formula Program (BFP)*	23-24	0.040
		CI	Bridge Formula Program (BFP)*	23-24	0.178
		C	Bridge Formula Program (BFP)*	23-24	1.481
		Total			
*The specific BFP subset is not available at this time (i.e. Urban, Rural, Off-system etc.)					

6. TIP# SA353, PIN (TBD), Antioch Road over Alder Creek Bridge Replacement, BIN 2260000, Town of Providence, Saratoga County

Final structure type will be selected during design, however a longer 40 ft span structure consisting of steel girders composite with a concrete deck superstructure on cantilever abutments supported by pile foundations is assumed for scoping and estimating purposes. The new structure would be constructed on the existing roadway alignment/profile and full depth roadway reconstruction would be limited to that which is required to properly transition to existing pavement. Standard bridge rail, transition rail and highway guiderail would be installed, as required, along the bridge and approaches based on NYSDOT guidelines. An off-site detour of 6.6 miles will be utilized to reduce construction duration and cost.

The amendment is detailed in the table below.

Project Sponsor: Town of Providence
 Project Location: Town of Providence
 Project Air Quality Code: A19

TIP #	PIN	Proposed TIP Data			
		Phase	Fund Source	FFY	Cost (\$M)
SA353	TBD	P	Bridge Formula Program (BFP)*	22-23	0.202
		D	Bridge Formula Program (BFP)*	22-23	0.202
		R	Bridge Formula Program (BFP)*	23-24	0.039
		Cl	Bridge Formula Program (BFP)*	23-24	0.272
		C	Bridge Formula Program (BFP)*	23-24	1.200
		Total			
*The specific BFP subset is not available at this time (i.e. Urban, Rural, Off-system etc.)					

7. TIP# SA354, PIN (TBD), CR 1 (Stony Creek Road) over Wolf Creek Bridge Replacement, BIN 3304230, Town of Hadley, Saratoga County

This project will replace the existing structure with a new bridge on the same horizontal and vertical alignment. An off-site detour will be utilized during construction, and the new bridge will consist of integral abutments and a prestressed adjacent box-beam superstructure with cast-in-place composite concrete bridge deck.

The amendment is detailed in the table below.

Project Sponsor: Saratoga County
 Project Location: Town of Hadley
 Project Air Quality Code: A19

TIP #	PIN	Proposed TIP Data			
		Phase	Fund Source	FFY	Cost (\$M)
SA354	TBD	P	Bridge Formula Program (BFP)*	22-23	0.145
		D	Bridge Formula Program (BFP)*	22-23	0.145
		R	Bridge Formula Program (BFP)*	23-24	0.050
		CI	Bridge Formula Program (BFP)*	23-24	0.210
		C	Bridge Formula Program (BFP)*	23-24	1.440
		Total			
<i>*The specific BFP subset is not available at this time (i.e. Urban, Rural, Off-system etc.)</i>					

8. TIP# S287, PIN (TBD), Muselbeck Road over Sandsea Kill Bridge Replacement, BIN 3304970, Town of Princetown, Schenectady County

The existing bridge will be removed and a three-sided concrete arch bridge will be installed on concrete footings and steel piles. Heavy stone fill will be placed along the edges of the stream to prevent scour. Precast headwalls will be placed along the top of the bridge with steel bridge rails anchored to them. The footings and wingwalls will be cast-in-place concrete. The bridge will be placed along the existing vertical and horizontal alignment. Due to the widening of the travel lanes and shoulders, as well as the utility relocations, permanent right-of-way takings may be required. There are overhead utilities that span over the bridge that would need to be moved for crane access. There are no utilities on the bridge. The traffic detour would be approximately 5 miles.

The amendment is detailed in the table below.

Project Sponsor: Schenectady County
 Project Location: Town of Princetown
 Project Air Quality Code: A19

TIP #	PIN	Proposed TIP Data			
		Phase	Fund Source	FFY	Cost (\$M)
S287	TBD	P	Bridge Formula Program (BFP)*	22-23	0.313
		D	Bridge Formula Program (BFP)*	22-23	0.313
		R	Bridge Formula Program (BFP)*	23-24	0.075
		CI	Bridge Formula Program (BFP)*	23-24	0.311
		C	Bridge Formula Program (BFP)*	23-24	2.100
		Total			
*The specific BFP subset is not available at this time (i.e. Urban, Rural, Off-system etc.)					