

**FY 2020-2024 TIP Amendment  
Tippecanoe County & CityBus**

**Staff Report  
June 3, 2020**

**BACKGROUND AND REQUEST:**

There are two requests in this amendment. One is from Tippecanoe County and it involves adding a Federally funded bridge replacement project. The other is from CityBus; they are revising their 2020 operating assistance and capital projects, programming new planning projects, and adding a new route planning software project.

Tippecanoe County

INDOT has approved Group IV STP Federal funds to replace the Old US 231 bridge over the Wea Creek. It is located approximately 1,500 feet south of Veterans Memorial Parkway. Preliminary engineering is anticipated to begin in FY 2021 with construction in FY 2024. In order to expedite the process so construction can occur in FY 2024, the County will be funding preliminary engineering and right-of-way with 100% local funds. The following table shows detailed information for the project.

*Old US 231 bridge over the Wea Creek (des #1902754)*

	Phase	Year	Federal Funds	Federal	Local	Total
New	PE	2021	----	0	204,000	204,000
New	RW	2021	----	0	146,000	146,000
New	CE	2024	Group IV STBG	240,000	60,000	300,000
New	CN	2024	Group IV STBG	1,920,000	480,000	2,400,000

CityBus

The Greater Lafayette Public Transportation Corporation, or CityBus, requests an amendment to update its CY 2020 Section 5307 operating, capital, and planning list of projects. It also includes adding \$1,000,000 in CY 2019 Section 5307 funds that were transferred from MACOG, carrying over \$349,105 in CY 2019 Section 5310 funds, and carrying over \$48,000 in CY 2018 Section 5307 funds. The table below summarizes the sources of these federal funds:

CY 2018 Section 5307 carryover	\$48,000
CY 2019 Section 5310 carryover	\$349,105
CY 2019 Section 5307 MACOG funds	\$1,000,000
CY 2020 Section 5307 funds	\$3,937,650
Total:	\$5,334,755

The following tables summarize the changes:

<i>Before</i>	Year	Project	Federal	Local	Total Cost
<i>Amendment</i>	2020	Operating Assistance	\$1,000,000	\$11,728,374	\$12,728,374
	2020	Capital Assistance	\$1,554,400	\$388,600	\$1,943,000
	2020	Planning Assistance	\$0	\$0	\$0
<i>After</i>	Year	Project	Federal	Local	Total Cost
<i>Amendment</i>	2020	Operating Assistance	\$2,100,000	\$10,628,374	\$12,728,374
	2020	Capital Assistance	\$1,906,400	\$476,600	\$2,383,000
	2020	Planning Assistance	\$304,000	\$76,000	\$380,000

A portion of the carryover and additional federal funds will be used for operating, capital and planning projects. They will be used to increase the federal participation in operating the system, as well as for cost increases for the support vehicle, and for three new capital projects (new roof, micro-transit software, and micro-transit vehicles). Some funds will be added to the pedestrian and bicycle detection system project. The fixed route bus replacement project scope has been reduced from replacing three buses to two. Federal funds will also be used for new planning projects including engineering for the expansion of the CNG station and for phase two of the strategic plan. The following justification is provided by CityBus for the new and updated projects:

**Operating Assistance - \$12,728,374, Des #1700413**

Growth in state operating funds for transit, known as the Public Mass Transit Fund (PMTF), and local taxes, have not kept pace with growth in expenses. CityBus needs to use more of its Section 5307 Federal funding appropriation to offset increasing operating costs. An additional \$1,100,000 in section 5307 funds will be used for operating assistance.

**Support Vehicle - \$50,000, Des #1700419**

Replace the 2012 Ford Edge. The support vehicle to be replaced was purchased in 2012. This vehicle will meet the requirements of FTA Circular 9020.1E in terms of age for replacement. The estimated cost of the replacement vehicle was increased based on the costs of previously purchased support vehicles which both exceeded \$30,000.

**Fixed Route Bus Replacement - \$1,030,000, Des #1700420**

With an amended decrease of \$570,000, CityBus will purchase two 40' buses to replace 2007 buses #1504 and #1505 rather than replacing three buses as originally programmed. Buses will be replaced per FTA guidelines as outlined in FTA Circular 9030.1D. The buses being replaced will be over 12 years in age, and all new buses will use CNG fuel.

**Ped/Bike Detection System - \$250,000, Des #1801629**

These additional funds will be added to the FY2018 5339 funds and will allow CityBus to procure Ped/Bike Detection Systems for the entire transit fleet.

**Facility Rehabilitation - \$500,000, Des #2001173**

CityBus will use \$400,000 in federal funds to replace the roof of the administrative office/garage and additional smaller rehab/replace projects will occur for the administration/maintenance facilities (such as garage doors). The roof being replaced is estimated to be in excess of 20-25 years in age.

**Micro-Transit Software - \$60,000, Des #2001174**

CityBus will invest \$48,000 (federal funds) in software to support and manage operations for micro-transit service. The software will have tools for scheduling trips and dispatching.

**Micro-Transit Vehicle Purchase - \$180,000, Des #2001175**

CityBus will invest \$144,000 (federal funds) for the purchase of micro-transit vehicles (2) to provide services to underserved areas in the community. The vehicles will be purchased and maintained per FTA guidelines as outlined in FTA Circular 9030.1D.

The following table summarizes the updated capital projects.

Item	Description	Federal Source	Federal Share	Local Share	Total Cost
1	Replacement Tires	Sec. 5307	56,000	14,000	70,000
2	Bus Overhauls: Engines	Sec. 5307	48,800	12,200	61,000
3	Bus Overhauls: Transmissions	Sec. 5307	59,200	14,800	74,000
4	Bus Rebuild Components	Sec. 5307	22,400	5,600	28,000
5	Computer Hardware & Software	Sec. 5307	40,000	10,000	50,000
6	Support Vehicle	Sec. 5307	40,000	10,000	50,000
7	Bus Replacement	Sec. 5307	824,000	206,000	1,030,000
8	Security Cameras for Vehicles	Sec. 5307	24,000	6,000	30,000
<i>Add</i>	<i>Pedestrian/Bicycle Detection</i>	<i>Sec. 5307</i>	<i>200,000</i>	<i>50,000</i>	<i>250,000</i>
<i>New</i>	<i>Facility Rehabilitation, New Roof</i>	<i>Sec. 5307</i>	<i>400,000</i>	<i>100,000</i>	<i>500,000</i>
<i>New</i>	<i>Micro-Transit Software</i>	<i>Sec. 5307</i>	<i>48,000</i>	<i>12,000</i>	<i>60,000</i>
<i>New</i>	<i>Micro-Transit Vehicles</i>	<i>Sec. 5307</i>	<i>144,000</i>	<i>36,000</i>	<i>180,000</i>
Total			1,906,400	476,600	2,383,000

Note: Projects highlighted in grey are either updated, added or new. Those in italics are added or new.

CityBus is also adding two planning projects and the following summarizes those projects:

**Planning: Engineering Services - \$350,000, Des #2001176**

CityBus will invest \$280,000 (federal funds) in engineering services for the expansion of the CNG fueling station.

**Planning: Strategic Plan, Phase 2 - \$90,000, Des #1700412**

This amendment implements the second phase in developing the strategic plan. A consulting firm will be hired to conduct five tasks including: 1) rider and non-rider surveying throughout the community; 2) boundary and taxation review and analysis; 3) focus groups of business and elected leaders and non-profit organizations; 4) researching new technology for use in public transit, and; 5) a mobility study. CityBus will use \$60,000 in residual funds from the initial study, and \$30,000 in 2020 funds for a total cost of \$90,000.

The following table summarizes the new planning items:

Item	Description	Federal Source	Federal Share	Local Share	Total Cost
1	Planning - Engineering CNG Station	Sec. 5307	280,000	70,000	350,000
2	Planning - Strategic Plan Ph 2	Sec. 5307	72,000	18,000	90,000
Total			352,000	88,000	440,000

The CityBus Board of Directors resolved to authorize the updated 2020 operating, capital and planning list of projects on January 22, 2020.

CityBus, Flexed FHWA STBG funds

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**Route Planning Software - \$45,000, Des #2001609**

CityBus will procure transit planning software to better understand and plan bus routes. The software will help CityBus plan route changes by analyzing ridership, origin-destination data, collisions, GIS information, change in miles, and associated costs for every route change, including all changes from temporary detours to a full system redesign.

Description	Federal Source	Federal Share	Local Share	Total Cost
Route Planning Software	Flexed FHWA (STBG)	36,000	9,000	45,000

The Federal funds for this project are STBG funds will be coming from the residual balance of funds from the Concord Road trail lighting project.

The CityBus Board of Directors resolved to authorize this project on May 27, 2020.

The Technical Transportation Committee reviewed the amendment request at its May 20, 2020 meeting and recommended approval.

**RECOMMENDATION:**

Staff recommends approval of this amendment to the FY 2020-2024 Transportation Improvement Program by adoption of the attached Resolution T-20-03.

Resolution T-20-03

RESOLUTION TO AMEND THE  
FY 2020-2024 TRANSPORTATION IMPROVEMENT PROGRAM

**WHEREAS**, the Area Plan Commission of Tippecanoe County has been designated the Metropolitan Planning Organization by the Governor, and

**WHEREAS**, it is required that a Transportation Improvement Program be developed and include all local and state transportation projects for which US Department of Transportation funds are being requested, and

**WHEREAS**, Tippecanoe County and the Greater Lafayette Public Transportation Corporation (CityBus) has requested changes to the FY 2020-2024 Transportation Improvement Program as follows:

Projects	Des Number	Year	Federal Share	Local Share	Total Cost
Old US 231 Bridge, PE phase	1902754	2021	0	204,000	204,000
Old US 231 Bridge, RW phase	1902754	2021	0	146,000	146,000
Old US 231 Bridge, CE phase	1902754	2024	240,000	60,000	300,000
Old US 231 Bridge, CN phase	1902754	2024	1,920,000	480,000	2,400,000
Operating Assistance	1700413	CY 2020	2,100,000	10,628,374	12,728,374
Support Vehicle	1700419	CY 2020	40,000	10,000	50,000
Bus Replacement	1700420	CY 2020	824,000	206,000	1,030,000
Pedestrian/Bicycle Detection	1801629	CY 2020	200,000	50,000	250,000
Facility Rehabilitation, New Roof	2001173	CY 2020	400,000	100,000	500,000
Micro-Transit Software	2001174	CY 2020	48,000	12,000	60,000
Micro-Transit Vehicles	2001175	CY 2020	144,000	36,000	180,000
Planning, Engineering CNG Station	2001176	CY 2020	280,000	70,000	350,000
Planning, Strategic Plan Ph 2	1700412	CY 2020	72,000	18,000	90,000
Route Planning Software	2001609	CY 2020	36,000	9,000	45,000

**WHEREAS**, the Greater Lafayette Public Transportation Corporation Board of Directors reviewed and approved the new and revised transit projects at its January 22, 2020 and May 27, 2020 meetings and,

**WHEREAS**, the Technical Transportation Committee reviewed the request at its May 20, 2020 meeting and recommended its inclusion in the FY 2020-2024 Transportation Improvement Program, and

**NOW THEREFORE BE IT RESOLVED** that the Policy Board of the Metropolitan Planning Organization does hereby adopt this amendment to the FY 2018-2021 Transportation Improvement Program for the MPO Planning Area.

ADOPTED on Thursday the 11<sup>th</sup> of June, 2020.

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Tony Roswarski  
President

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Sallie Dell Fahey  
Secretary