



**DRAFT FFY 2024-2027 Transportation Improvement Program**

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Resolution Approving FY2024-2027 TIP

## Acknowledgement

This report was prepared by the Roanoke Valley-Alleghany Regional Commission (RVARC) staff in cooperation with and assistance by the: Virginia Department of Rail and Public Transportation (DRPT), Virginia Department of Transportation (VDOT), Roanoke Valley Transportation Planning Organization (RVTPO) member localities, Greater Roanoke Transit Company (GRTC/Valley Metro), and RADAR (Unified Human Services Transportation Systems, Inc.).

## Disclaimer

The contents of this report reflect the views of the Roanoke Valley Transportation Planning Organization. The Roanoke Valley-Alleghany Regional Commission (RVARC) staff is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the Federal Highway Administration, Federal Transit Administration, Virginia Department of Transportation, Virginia Department of Rail and Public Transportation, Valley Metro, RADAR, or the RVARC. This report does not constitute a standard, specification, or regulation. FHWA, FTA, VDOT and DRPT acceptance of this report as evidence of fulfillment of the objectives of this program does not constitute endorsement/approval of the need for any recommended improvements nor does it constitute approval of their location and design or a commitment to fund any such improvements. Additional project level environmental impact assessments and/or studies of alternatives may be necessary.

The data presented in this report is provided by VDOT, DRPT, GRTC and RADAR; and the data is compiled and presented by RVARC staff.

## Abstract

The Roanoke Valley Transportation Planning Organization (RVTPO) is recognized as the official transportation planning agency for the Roanoke, Virginia Urbanized Area as required by federal law. For the region to receive federal funds for use on highway, transit, non-motorized, and multimodal systems, the RVTPO is required to develop a Transportation Improvement Program (TIP). The Transportation Improvement Program (TIP) is a four-year financial program that describes the schedule for obligating federal funds to state and local projects. For all non-transit projects in the region, the TIP serves as the document to obtain authority from the Federal Highway Administration to commit obligate (or commit) funds to a project.

The TIP contains federal funding information for all modes of transportation including highways, transit and pedestrian facilities. Additionally, the TIP also reflects projects and priorities identified in the Roanoke Valley Transportation Plan. The RVTPO works closely with the Virginia Departments of Transportation and Rail & Public Transportation, as well as local transit operators, to update and amend the TIP each year as funding conditions change. Finally, the RVTPO publishes an annual listing of TIP projects for which have federal funds have been obligated.

## Introduction

The Roanoke Valley Transportation Planning Organization (RVTPO) is recognized as the official transportation planning agency for the Roanoke, Virginia Urbanized Area as required by federal law. For the region to receive federal funds for use on highway, transit, non-motorized, and multimodal systems, the RVTPO is required to develop a Transportation Improvement Program (TIP). Staff at the RVTPO developed this TIP for the MPO area which includes the 2010 Census urbanized area as well as the area projected to be urbanized by 2045. The RVTPO TIP was developed in cooperation with the Virginia Department of Transportation (VDOT), the Virginia Passenger Rail Authority (VPRA), the Virginia Department of Rail and Public Transportation (DRPT), local public transportation operators, and the local governments within the urbanized area. These officials, through the Metropolitan Planning Process, select and schedule projects for endorsement in the TIP. The Transportation Improvement Program may be modified as described in the [Amendment/Adjustment Process Attachment](#).

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The TIP contains federal planned obligation information for all modes of transportation including highways, transit and pedestrian facilities and is consistent with the projects and priorities identified in the Roanoke Valley Transportation Plan (RVTP). The RVTPO works closely with VDOT and DRPT, as well as local transit operators, to update and amend the TIP as funding conditions change. Finally, the RVTPO annually updates project information in the RVTP and TIP to reflect actual obligations of federal funds to funded projects/services.

The TIP identifies capital and operating projects/services with planned federal obligations over a four-year period during federal fiscal years 2024 through 2027 (October 1, 2023 to September 30, 2027). The TIP serves as the transit “program of projects” for which public involvement is conducted through the RVTPO’s Public Participation Plan.

In accordance with 23 CFR 450.318(i), any project included in the TIP shall be consistent with the approved Metropolitan Transportation Plan (Roanoke Valley Transportation Plan. Once approved, the TIP is incorporated without change into the Statewide Transportation Improvement Program or STIP. The TIP makes progress toward achieving the RVTPO’s adopted performance measure targets as shown in the [System Performance Report Attachment](#).

## Public and Stakeholder Involvement

In accordance with the RVTPO’s Public Participation Plan, the public has been afforded several opportunities to comment upon the development of the TIP. For more information on the public engagement process for the TIP, please refer to the [Public Engagement Summary Attachment](#).

The Comprehensive, Continuing, Cooperative, or “3C” Process of the RVTPO, provides a natural mechanism by which the TIP can be carefully reviewed and updated. Changes to the TIP are handled via administrative adjustments for minor changes or amendments for major changes to ungrouped projects or a project grouping category as described in the [Amendments/Adjustments Process Attachment](#). Amendments to the TIP also offer the opportunity for public involvement.

## Grouping of Funded Roadway/Bicycle/Pedestrian/Rail Projects

No funded roadway/bicycle/pedestrian projects in the RVTPO area are considered to be regionally significant by the Virginia Department of Transportation because the Roanoke Valley is in an air quality attainment region, and none of the projects need to be analyzed for air quality conformity. Regional significance is defined differently by the federal definition and by the adopted RVTPO definition, but the state interpretation is what is being applied in this Transportation Improvement Program (TIP). Moreover, as defined in [23 CFR 450.104](#), regionally significant projects exclude those that may be grouped in the TIP. Therefore, the majority of projects in the FFY24-27 TIP are not regionally significant based upon this regulation.

The FHWA and FTA give the RVTPO the ability to determine how much planned federal obligation funding information it wishes to exercise oversight for in the TIP. By grouping most roadway/bicycle/pedestrian/rail projects, the RVTPO will only be notified by VDOT if the total group cost estimate exceeds allowable overrun amounts upon which it would need to be approved by the Board with consideration of public comment. As such, the RVTPO will not monitor annual planned federal obligations and schedule information for virtually all roadway/bicycle/pedestrian/rail projects in the region.

*RVTPO FFY24-27 Roadway/Bicycle/Pedestrian/Rail Total Cost Estimate by Project Groupings*

<b>Project Grouping Category</b>	<b>Total Cost Estimate of Group</b>
Construction: Bridge Rehabilitation/Replacement/Reconstruction	\$43,157,822
Construction: Federal Lands Highway	\$1,751,432
Construction: Safety/ITS/Operational Improvements	\$1,224,938,110
Construction: Transportation Enhancement/Byway/Non-Traditional	\$85,687,280
Construction: Rail	VPRA to provide
Maintenance: Preventive Maintenance and System Preservation	\$2,956,287
Maintenance: Preventive Maintenance for Bridges	\$20,368,691

Ungrouped Funded Roadway/Bicycle/Pedestrian/Rail Projects

One project required more environmental analysis, not related to air quality, and for that reason VDOT has requested it be listed individually or ungrouped in the TIP. RVTPO staff will track planned obligations and schedule for this project as information is provided by VDOT.

*Ungrouped Project: (Note: VDOT to provide updated annual planned obligations for FFY24-27 by November.)*

UPC NO	688	SCOPE	Reconstruction w/ Added Capacity			
SYSTEM	Urban	JURISDICTION	Roanoke	OVERSIGHT	NFO	
PROJECT	13TH STREET AND HOLLINS ROAD			ADMIN BY	VDOT	
DESCRIPTION	FROM: JAMISON AVE TO: .08 MILE NORTH INT. ORANGE AVENUE (0.9790 MI)					
ROUTE/STREET	13TH ST/ HOLLINS RD (U000)			TOTAL COST	\$23,960,970	
	FUND SOURCE	MATCH	FY21	FY22	FY23	FY24
CN	Federal - STP/STBG	\$672,519	\$2,690,076	\$0	\$0	\$0
CN AC	Federal - AC OTHER	\$0	\$51,697	\$0	\$0	\$0

Ungrouped Funded Transit Projects and Services

Upon agreement by the FTA, DRPT, FHWA, and VDOT, the RVTPO Policy Board tracks and is requested to provide oversight over annual planned federal obligations for all transit projects. The ungrouped transit projects included in the FFY24-27 TIP are displayed in the following project sheets. For more detail on the information provided in the transit project sheets, as well as the most common federal funding programs for transit projects, or to better understand grouped and ungrouped projects, please refer to the [Acronyms/Definitions Attachment](#). Any administrative adjustments or amendments to grouped or ungrouped projects will be noted in the [Amendments/Adjustments Summary Attachment](#).

Summary of Ungrouped Transit Projects

State ID	Locality	RVTPO Title	Description
GRT0001	City of Roanoke	VM Fixed-Routes: 11, 12, 15, 16, 21, 22, 25, 26, 31, 32, 35, 36, 41, 42, 51, 52, 55, 56, 61, 62, 65, 66, 71, 72, 75, 76, 85, 86, 91, 92. SmartWay: Base, Express and Connector. Starline Trolley.	See the list of all fixed-route buses, SmartWay Base, Express and Connector and Starline Trolley.
GRT0002	City of Roanoke	Preventative Maintenance for Valley Metro Vehicles	Maintenance to keep vehicles/equipment running smoothly.
GRT0003	City of Roanoke	Replace Valley Metro transit vehicles	Fixed-route buses and paratransit service vehicles utilized by RADAR under contract to Valley Metro.
GRT0004	City of Roanoke	Valley Metro Support Vehicles	These are vehicles used by supervisors, dispatch, maintenance, admin, etc. that support the service but don't carry passengers.
GRT0005	City of Roanoke	Bus Stop Enhancements	Bus stop amenities may include trashcans, lights, benches, or shelters. The specific stops have not been identified.
GRT0006	City of Roanoke	Renovation of Administration and Maintenance Building	Upgrades to the maintenance space and a break area in the maintenance shop.
GRT0007	Systemwide	Shop Equipment	Equipment used to maintain buses and non-bus support vehicles.
RAD0001	Roanoke County	Purchase of RADAR paratransit vehicles	Capital assistance to support transportation for people with disabilities in the City of Roanoke, City of Salem, and the Town of Vinton beyond the 3/4-mile area around fixed routes to destinations within those localities.
ROA0001	Roanoke County	CORTRAN turnkey third-party provided operating assistance	Operating assistance for Via Transportation, Inc. under contract with Roanoke County to provide on-demand transit services for Roanoke County residents 70+ or of any age with a disability.

Summary of Ungrouped Transit Project's Planned Obligations

		FY 2024	FY 2025	FY 2026	FY 2027	Total FY 2024-2027	
<b>ROANOKE VALLEY AREA METROPOLITAN PLANNING ORGANIZATION</b>							
STIP ID:	<b>GRT0001</b>	Title: Operating Assistance			Recipient: <b>Greater Roanoke Transit Company</b>		
FTA 5307		2,147,090	2,147,090	2,147,090	2,147,090	FTA 5307	<b>8,588,360</b>
FTA 5311		354,000	354,000	354,000	354,000	FTA 5311	<b>1,416,000</b>
State		2,407,236	2,407,236	2,407,236	2,407,236	State	<b>9,628,944</b>
Local		1,566,000	1,566,000	1,566,000	1,566,000	Local	<b>6,264,000</b>
Revenues		2,314,000	2,314,000	2,314,000	2,314,000	Revenues	<b>9,256,000</b>
<b>Year Total:</b>		<b>8,788,326</b>	<b>8,788,326</b>	<b>8,788,326</b>	<b>8,788,326</b>	<b>Total Funds:</b>	<b>35,153,304</b>
STIP ID:	<b>GRT0002</b>	Title: Preventative Maintenance			Recipient: <b>Greater Roanoke Transit Company</b>		
FTA 5307		715,697	715,697	715,697	715,697	FTA 5307	<b>2,862,788</b>
State		-	-	-	-	State	<b>-</b>
Local		178,924	178,924	178,924	178,924	Local	<b>715,696</b>
<b>Year Total:</b>	<b>-</b>	<b>894,621</b>	<b>894,621</b>	<b>894,621</b>	<b>894,621</b>	<b>Total Funds:</b>	<b>3,578,484</b>
STIP ID:	<b>GRT0003</b>	Title: Replacement Bus			Recipient: <b>Greater Roanoke Transit Company</b>		
FTA 5339			97,200			FTA 5339	<b>97,200</b>
FTA 5307						FTA 5307	<b>-</b>
STBG		4,768,121				STBG	<b>4,768,121</b>
State		1,192,031	248,400			State	<b>1,440,431</b>
Local			14,400			Local	<b>14,400</b>
<b>Year Total:</b>	<b>-</b>	<b>5,960,152</b>	<b>360,000</b>	<b>-</b>	<b>-</b>	<b>Total Funds:</b>	<b>6,320,152</b>
STIP ID:	<b>GRT0004</b>	Title: Support Vehicles			Recipient: <b>Greater Roanoke Transit Company</b>		
FTA 5339		48,000	48,000	48,000	48,000	FTA 5339	<b>192,000</b>
Flexible STP						Flexible STP	<b>-</b>
State		6,000	6,000	6,000	6,000	State	<b>24,000</b>
Local		6,000	6,000	6,000	6,000	Local	<b>24,000</b>
<b>Year Total:</b>	<b>-</b>	<b>60,000</b>	<b>60,000</b>	<b>60,000</b>	<b>60,000</b>	<b>Total Funds:</b>	<b>240,000</b>
STIP ID:	<b>GRT0005</b>	Title: Bus Stop Enhancements			Recipient: <b>Greater Roanoke Transit Company</b>		
FTA 5339		40,500	40,500	40,500	40,500	FTA 5339	<b>162,000</b>
State		103,500	103,500	103,500	103,500	State	<b>414,000</b>
Local		6,000	6,000	6,000	6,000	Local	<b>24,000</b>
<b>Year Total:</b>	<b>-</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>150,000</b>	<b>Total Funds:</b>	<b>600,000</b>
STIP ID:	<b>GRT0006</b>	Title: Rehab/Renovation of Admin/Maint Building			Recipient: <b>Greater Roanoke Transit Company</b>		
FTA 5307		270,000				FTA 5307	<b>270,000</b>
State		690,000				State	<b>690,000</b>
Local		40,000				Local	<b>40,000</b>
<b>Year Total:</b>	<b>-</b>	<b>1,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>Total Funds:</b>	<b>1,000,000</b>
STIP ID:	<b>GRT0007</b>	Title: Shop Equipment			Recipient: <b>Greater Roanoke Transit Company</b>		
FTA 5339		5,400	5,400	5,400	5,400	FTA 5339	<b>21,600</b>
State		13,800	13,800	13,800	13,800	State	<b>55,200</b>
Local		800	800	800	800	Local	<b>3,200</b>
<b>Year Total:</b>	<b>-</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>20,000</b>	<b>Total Funds:</b>	<b>80,000</b>
STIP ID:	<b>RAD0001</b>	Title: Paratransit Vehicles			Recipient: <b>RADAR - UHSTS, Inc. Roanoke County</b>		
FTA 5310		128,000	128,000	128,000	128,000	FTA 5310	<b>512,000</b>
State						State	<b>-</b>
Local		32,000	32,000	32,000	32,000	Local	<b>128,000</b>
<b>Year Total:</b>	<b>-</b>	<b>160,000</b>	<b>160,000</b>	<b>160,000</b>	<b>160,000</b>	<b>Total Funds:</b>	<b>640,000</b>
STIP ID:	<b>ROA0001</b>	Title: Capital Assistance			Recipient: <b>County of Roanoke</b>		
FTA 5310		240,000	240,000	240,000	240,000	FTA 5310	<b>960,000</b>
State		48,000	48,000	48,000	48,000	State	<b>192,000</b>
Local		12,000	12,000	12,000	12,000	Local	<b>48,000</b>
<b>Year Total:</b>	<b>-</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>300,000</b>	<b>Total Funds:</b>	<b>1,200,000</b>

## Funding for the TIP

The TIP financial plan summarizes by year and by funding source the projected and planned obligation authority of VDOT for fiscal years 2024-2027. Funding for transit projects are listed on the transit project sheets. The following table shows that the program is financially constrained by year. These revenue sources are all reasonably expected to be made available and committed to the project phase during the programmed year of the TIP.

*RVTPO Federal Funding Categories and Fiscal Constraint by Year: Roadway, Bicycle and Pedestrian Projects, FFY 2024-2027*

*Note: TABLE FORTHCOMING FROM VDOT.*

As illustrated above, there are a number of federal funding sources with which projects could be and are funded. Please refer to [Acronyms/Definitions Attachment](#) for more information on the most common federal funding programs for roadway, bicycle and pedestrian projects.

Funded projects make up the first part of the region's transportation financial plan followed by the second part of unfunded projects to be pursued. Project details are included in the Roanoke Valley Transportation Plan for each RVTPO approved project eligible for funding through the TIP.

## Performance Measures Targets

Beginning in 2018, and pursuant to 23 CFR §450.306(d)(2), each MPO shall establish performance targets that address the performance measures or standards established under 23 CFR part 490 to use in tracking progress toward attainment of critical outcomes for the MPO region.

Beginning in the fall of 2017, the RVTPO has coordinated with VDOT, DRPT, Valley Metro, RADAR, the Federal Highway Administration, and the Federal Transit Administration to set and adopt performance measure targets. The target establishment dates vary based on the effective date of the federal Final Rule, the establishment of state targets by VDOT (no later than one year following effective date of Final Rule), and the development or acceptance of VDOT targets by the MPO (no later than 180 days after VDOT target is set).

Regarding the performance measures targets and their relationship to the TIP, and pursuant to 23 CFR §450.326(c) and (d):

*(c) The TIP shall be designed such that once implemented, it makes progress toward achieving the performance targets established under §450.306(d).*

*(d) The TIP shall include, to the maximum extent practicable, a description of the anticipated effect of the TIP toward achieving the performance targets identified in the metropolitan transportation plan, linking investment priorities to those performance targets.*

Metropolitan Planning Organizations have the option to create their own Performance Targets or adopt those developed by VDOT. The RVTPO has historically adopted the VDOT and VDRPT targets for the required performance measures applicable to the RVTPO study area. The 2045 Roanoke Valley Transportation Plan includes a discussion of the performance measures and targets in the [Goals, Objectives, and Performance Measures Attachment](#). Additionally, refer to the [System Performance Report Attachment](#) for a system performance report current to the time of most recent RVTP adoption.