

Central Virginia Transportation
Planning Organization

# Central Virginia Transportation Improvement Program Fiscal Years 2021-2024

Prepared by the Central Virginia Planning District Commission for the Central Virginia
Transportation Planning Organization with cooperative assistance from the Virginia Department of
Transportation, the Virginia Department of Rail & Public Transportation, the Lynchburg Regional
Airport, the Greater Lynchburg Transit Company, the City of Lynchburg, the Counties of Amherst,
Bedford and Campbell, and the Town of Amherst through their participation on the Transportation
Technical Committee.

This document was funded in part by the Federal Highway Administration, the Federal Transit Administration, the Virginia Department of Transportation and the Virginia Department of Rail and Public Transportation.

#### **Revision History:**

• **Adopted:** June 18, 2020

Amended: April 15, 2021, September 16, 2021, May 19, 2022, July 21,2022

Adjusted: December 16, 2020; January 13, 2021; March 30, 2021, August 8, 2022

Edited: n/a

## **Table of Contents**

SECTION 1: Narrative	4
Introduction	4
What is the Central Virginia Transportation Planning Organization?	4
Purpose and Powers	5
Central Virginia TPO Urbanized Area	6
CVTPO Staff	7
The Central Virginia Planning District Commission	7
Regional Consensus	8
Project Chart Summary	9
Primary, Secondary, and Urban Category Project Chart	9
Project Group Listings Chart	10
Grouped Projects Chart Shown in Appendix A	10
Glossary of Terms Used in Project Charts	11
SECTION 2: Financial Plan	14
Introduction	14
Funding Sources	14
Financial Assumptions	16
Table 1: Highway Projects	16
SECTION 3: Highway Transportation Improvement Program	17
Interstate Projects	17
Primary Projects	17
Secondary Projects	18
Urban Projects	19
Project Groupings	21
SECTION 4: Public Transportation & Transportation Demand Management (TDM) Projects	23
Public Transportation Agency Safety Plan Targets	25

SECTION 5: Six-Year Airport Project Grant Fund	28
APPENDIX A: Projects by Grouping	29
Construction: Bridge Rehabilitation/Replacement/Reconstruction	29
Construction: Rail	29
Construction: Safety/ITS/Operational Improvements	30
Construction: Transportation Enhancement/Byway/Non-Traditional	32
Maintenance: Preventive Maintenance and System Preservation	33
Maintenance: Preventative Maintenance for Bridges	33
Maintenance: Traffic and Safety Operations	33
APPENDIX B: Statement of Certification and Resolution of Adoption	34
APPENDIX C: Performance Based Planning and Programming	36
Safety Performance Measures	37
Performance Targets	37
Connection to Other Performance Based Planning Documents	37
Funding for Safety Projects	40
How do Safety Projects get selected for Inclusion in the STIP?	40
Transit Asset Management	42
Pavement and Bridge Performance Measures	42
Performance Targets	42
Background/History	44
Connection to Other Performance Based Planning Documents	44
Funding for Pavement and Bridge Projects	45
How do Pavement and Bridge Projects get selected for Inclusion in the STIP?	46
Highway System Performance	47
Performance Targets	47
Connection to Other Performance Based Planning Documents	47
Funding for Highway System Performance Projects	48
How do Highway System Performance Projects Get Selected for Inclusion in the STIP?	49

## **SECTION 1: Narrative**

#### Introduction

The Central Virginia Transportation Improvement Program (CVTIP) is the Central Virginia Transportation Organization's (CVTPO) mechanism for allocating its limited transportation resources among the various needs of the area. It is a four—year program that addresses the immediate funding needs for transportation systems management (TSM) and operations. It also addresses the immediate funding needs for the transportation projects drawn from the Virginia Department of Transportation's Six-Year Improvement Program, public transit agencies, Lynchburg Regional Airport's Capital Improvement Plans and the Central Virginia Long Range Transportation Plan.

The CVTIP FY2021-2024 begins on October 1, 2020 and is applicable until September 30, 2024. Section 3 is made up of the current projects, projects from the CVTIP FY 2018-2021 that have not yet been closed out, and new projects for which VDOT expects to receive funding. Section 4 includes public transit agencies that will receive federal obligations in the coming four-year period. Section 5 gives an overview of airport facilities that are receiving federal obligations in the coming four-year period.

Required by federal law, the Long- Range Transportation Plan (LRTP) is the document that directs transportation decisions over a minimum 20-year horizon. The CVTIP 2021-2024 represents the programmed implementation of selected recommendations from the CVTPO's most recently adopted Long- Range Transportation Plan. The projects listed in the CVTIP FY2021-2024 encompass bridge rehabilitation and replacement, roadway widening, computerized signal systems, roadway construction, intersection improvements and public transit capital and operating expenditures, and airport expenditures. Through the projects listed in the CVTIP FY2021-2024, the CVTPO member jurisdictions and the state and federal transportation agencies hope to create a more effective transportation system to serve the Central Virginia urbanized area.

### What is the Central Virginia Transportation Planning Organization?

The Central Virginia Transportation Planning Organization (CVTPO) is the forum for cooperative transportation decision-making among the City of Lynchburg and sections of Bedford County, Campbell County, and Amherst County along with state and federal transportation officials.

#### The CVTPO considers:

Long-range regional projects and combines public input, technical data, and agency collaboration to develop forward-thinking solutions.

Carrying out a continuing, cooperative and comprehensive transportation planning and programming process (3-C Process).

Transportation planning activities of the various transportation-related agencies that have both a direct and indirect impact on the Long-Range Plan and Transportation Improvement Program.

Originally known as the Central Virginia Transportation Planning Council and subsequently as the Central Virginia Metropolitan Planning Organization, the TPO was established pursuant to a cooperative agreement executed on September 13, 1979 (as amended or updated), by the City of Lynchburg and the Counties of Amherst, Bedford and Campbell, as authorized under Title 33.2, Subtitle IV, Chapter 32 of the Code of the Commonwealth of Virginia. On November 27, 1979, the organization was designated by the Governor of the Commonwealth of Virginia as the Metropolitan Planning Organization (MPO) for the Greater Lynchburg Area Transportation Study, also known as the Central Virginia TPO Urbanized Area (hereinafter also referred to as the "urbanized area" or "study area").

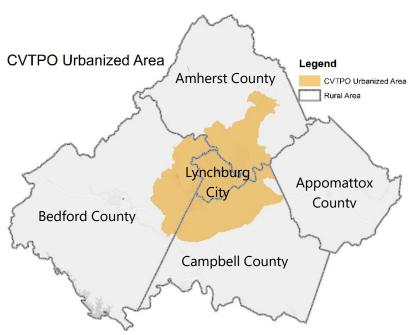
#### **Purpose and Powers**

The TPO is the policy decision-making body for the purpose of carrying out the continuing, cooperative, comprehensive (3-C) transportation planning and programming process as defined in the United States Code Title 23, Section 134 and Title 49 Section 1607; and in accordance with the constitution and statutes of the Commonwealth of Virginia, particularly Title 33, Chapter 32 of the Code of Virginia. In carrying out its responsibilities, the TPO:

- Establishes policy for the continuing, comprehensive and cooperative (3-C) transportation planning process
- Develops the long-range transportation plan (LRTP) for the study area known as the Central Virginia TPO Urbanized Area
- Reviews the LRTP for the study area on an annual basis
- Updates the LRTP no less frequently than every five years
- Recommends action by other appropriate agencies
- Coordinates and conducts transportation planning and conceptual design studies with local governments, transit providers, and state/federal agencies
- Revises the Central Virginia TPO Urbanized Area
- Develops, in coordination with local governments and the state/federal partners, socioeconomic data for the regional traffic model
- Reviews systems and proposals required by federal and state agencies
- Develops and approves the annual planning and programming documents as described in the U.S. Department of Transportation regulations, as amended
- Performs other studies, reviews, evaluations, and tasks that may be required

Central Virginia TPO Urbanized Area

The CVTPO TIP must include all federally funded or regionally significant transportation projects that are located within the CVTPO Urbanized Area. The urbanized area must encompass the existing urbanized area as defined by the United States Census, as well as the adjacent areas anticipated to be included in the defined urbanized area boundaries in the next twenty years. For the CVTPO, this area includes all the City of Lynchburg, Town of Amherst, and portions of Amherst, Bedford, and Campbell Counties (see map below).



#### **CVTPO Staff**

The CVTPO is staffed by the Central Virginia Planning District Commission (PDC #11) which was formed in 1969 and covers the City of Lynchburg and the Counties of Amherst, Appomattox, Bedford, and Campbell.

#### The Central Virginia Planning District Commission

The Central Virginia Planning District Commission (CVPDC) is established under section 15.2-4200 of the Code of Virginia as one of 21 planning districts which serve the local governments of the Commonwealth. The CVPDC works to provide services for member localities and identify and develop opportunities for coordination among the region's local governments. Additionally, the CVPDC encourages and facilitates collaboration among local governments in addressing challenges and opportunities of greater-than-local significance. Areas where the CVPDC is active in the region include: Consolidated Services, Regional Initiatives, Community Development, and Transportation.

The purpose of planning district commissions, as set out in the Code of Virginia, Section 15.2-4207, is

"...to encourage and facilitate local government cooperation and state-local cooperation in addressing, on a regional basis, problems of greater than local significance. The cooperation resulting from this chapter is intended to facilitate the recognition and analysis of regional opportunities and take account of regional influences in planning and implementing public policies and services.

The planning district commission shall also promote the orderly and efficient development of the physical, social and economic elements of the district by planning, and encouraging and assisting localities to plan for the future."

Virginia's PDCs provide a variety of technical and program services to member local governments. They include grant application assistance, management services for program implementation, land use planning services and mapping. The merging of mapping and information services has created the field of geographic information systems, where PDC's often lead the way. Transportation planning is another role for PDCs, who may deal with highway development, ridesharing, airport planning, and specialized transit.

For the Commonwealth, PDCs serve as an accessible network that gives quick and complete statewide coverage. Each serves as the Affiliate State Data Center for the region. In this role they provide important information to businesses as well as citizens. PDCs are the regional contact for the Commonwealth Intergovernmental Review Process and provide input for a host of agencies and commissions.

The program work of PDCs has been meeting the needs of local and state government for the last 50 years. Within their region they may serve to build regional approaches to issues like economic development, solid waste management and legislative priorities. In other states, organizations like PDCs are known as regional councils, regional commissions, and councils of government.

One important duty of the PDC's is to create a strategic plan for their region of service. This plan is created in cooperation with local governments, businesses, citizen organizations, and other interested parties. The plan is intended to help promote the orderly and efficient development of the PDC by stating goals and objectives, strategies to meet those goals, and mechanisms for measuring progress.

#### Regional Consensus

The production of the CVTIP 2021-2024 is the culmination of the transportation planning process and represents a consensus among state, regional, and local officials as to projects selected for implementation. A project's inclusion in the TIP signifies regional agreement on the priority of the project and establishes eligibility for federal funding.

After the CVTIP 2021-2024 is approved by the CVTPO, it is submitted to the Virginia Department of Transportation (VDOT) for inclusion in the Statewide Transportation Improvement Program (STIP), which is then submitted to Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) for approval. The inclusion of projects from the Long-Range Transportation Plan into the TIP is based on the priority listing developed in that plan (which is revised as conditions warrant) and modified by financial constraints. Once projects are listed in the CVTIP 2021-2024, they may be amended or deleted as conditions warrant.

The agencies involved in the development this program, through their participation on the Central Virginia Transportation Planning Organization and its Transportation Technical committee are:

Town of Altavista\* Campbell County

Town of Brookneal\* City of Lynchburg

Amherst County Greater Lynchburg Transit Company

Town of Amherst Lynchburg Regional Airport

Appomattox County\* Liberty University\*\*

Town of Appomattox\*

Virginia Department of Transportation

Bedford County Virginia Department of Rail & Public

Town of Bedford\*

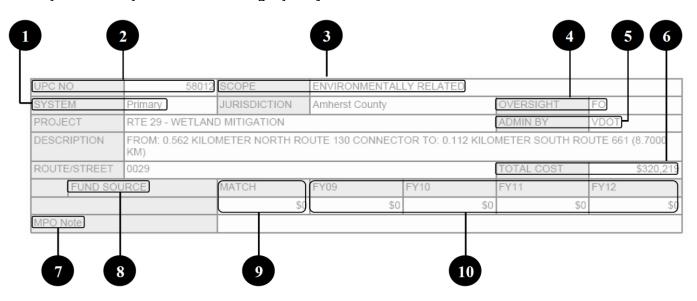
In keeping with the CVTPO's efforts to encourage public participation in the planning process, the CVTPO held a public hearing on June 18, 2020 to receive input, suggestions and comments pertaining to the CVTIP FY2021-2024.

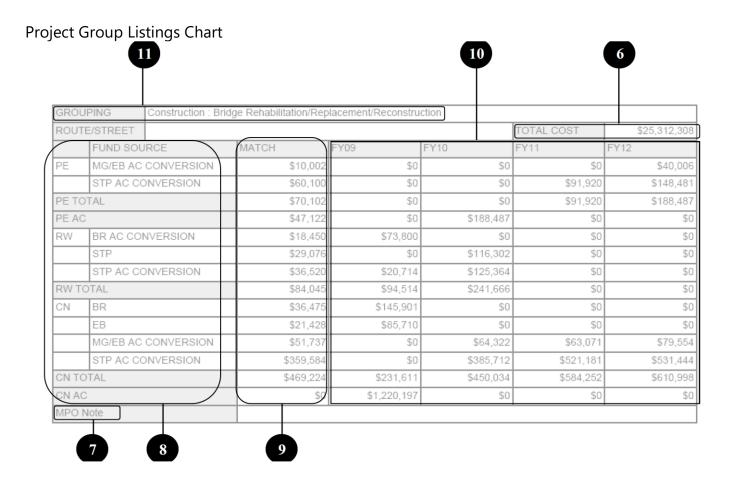
<sup>\*</sup> Rural member \*\* Non-voting member

#### **Project Chart Summary**

Each project listing in the CVTIP FY2021-2024 has an information chart. The information for the projects listed in the Primary, Secondary and Urban categories appears in the chart format shown below. Project group listing charts and the associated project detail from Appendix A is shown on the following page. These project listings are provided to the TPO by the Virginia Department of Transportation. Definitions for the numbered terms appear in the corresponding Glossary of Terms table.

Primary, Secondary, and Urban Category Project Chart





### Grouped Projects Chart Shown in Appendix A



RTE 659 - RECONSTRUCTION AND BRIDGE OVER RUTLEDGE CREEK

FROM: ROUTE T-606 TO: 0.090 KM WEST NORFOLK SOUTHERN RAILWAY (1.6200 KM)

## Glossary of Terms Used in Project Charts

OBJECT "	TERM	DEFINITION							
1	System	Indicates wh	ich system, program, or	r mode of tran	sportation the project				
•	System		Interstate, Primary, Seco						
			or Miscellaneous	ridary, orban,	ran portation				
2	UPC No.		oject Code. Number ass	igned to each	project at its				
			and remains with the pr	•					
3	Scope	This is a brief statement regarding the nature of the project							
4	Federal Oversight								
-	Indicator (FO &	<b>FO:</b> Indicates Federal Oversight in the project construction contracting and management.							
	NFO)	_	tes No Federal Oversigh	nt in the consti	ruction contracting and				
	,		nt issues and does not a		_				
		_	ess for transportation pr						
			on projects must include	-	•				
			regardless of whether th	•					
			contracting and manag		_				
5	Admin By		that is administrating th						
6	Project Cost		ion of all shares to the						
7	MPO/TPO Note		ce where the TPO can in						
8	Fund Source		program which is the pri						
			VA funding sources are	•	•				
		AC	Advance Construction	М	Urban Funds				
			Funds						
		AC	Breakdown of the	MG/EB	Minimum Guarantee &				
		Conversion	allocated amount of		Equity Bonus Funds				
			the advance						
		DD.	construction (AC)	NUIC	Niet's sellitede s				
		BR	Bridge Replacement Funds	NHS	National Highway System Funds				
		BR-OS	Bridge off -system	PPTA	Public Private				
		DIC-03	Funds for Secondary	'''	Transportation Act of				
			Road Projects		1995				
		СМ	Congestion Mitigation	RRP	Railway-Highway				
			and Air Quality Funds		Crossing Funds				
		EB	Equity Bonds	RSTP	Regional Surface				
					Transportation				
		ENI/TA	Transportation	S	Program State Construction				
		EN/TA	Transportation Enhancement/	3	State Construction Funds Only				
			Alternatives Funds		Tulius Offiy				
		HES	Hazard Elimination	STP	Surface Transportation				
		Funds Program Funds							
		HSIP	Highway Safety	STP/RR	Surface Transportation				
		Improvement Program Program and Railroad							
			Funds		Funds				
		нмо	Highway Maintenance	STP	Surface Transportation				
			& Operating Funds	Statewide	Program Funds				
		HPD	High Priority Funds	TDM	Transportation				
		Demand Management							

		IM	Interstate Maintenance	VTA	Virginia Transportation				
			Funds		Act				
9	Match	Most federa	I fund sources require a	match of som	e sort; most often 80-				
		20 i.e. the fe	20 i.e. the federal government reimburses 80% of the total cost. For a						
		full chart of	full chart of match requirements, please refer to the Funding Sources						
		and Funding	and Funding Ratios section of this document.						
10	<b>Current and Future</b>	The budget	for the indicated phase	of work provid	ded by the indicated				
	Obligation	funding sou	rce.						
11	Grouping	This indicate	s the group in which the	e project falls.	For more information				
		about the gr	oups, please refer to the	e TIP Format s	ection of this				
		document.							
12	Estimate	The cost estimate reflects the current estimate for the listed phase of							
		the project.							

AGENCY	AGENCY ABBREVIATIONS						
CVTPO	Central Virginia Transportation Planning	Greater Lynchburg Transit Company					
(TPO)	Organization						
FAA	Federal Aviation Administration	MPO	Metropolitan Planning Organization				
FHWA	Federal Highway Administration	VDOT	Virginia Department of Transportation				
FTA	Federal Transit Administration	VDRPT	Virginia Department of Rail and Public				
			Transportation				

OTHER AE	OTHER ABBREVIATIONS							
CFR	Code of Federal Regulations	PE	Preliminary Engineering					
CE	Categorical Exclusion	RTE	Route					
CN	Construction	RW	Right of Way					
FAST	Fixing America's Surface Transportation	SOP	Standard Operating Procedure					
ACT	Act							
FO, NFO	Federal Oversight, No Federal	TDM	Transportation Demand Management					
	Oversight							
FY	Funding Year / Fiscal Year	TIP	Transportation Improvement Program					
HWY	Highway	ТО	Total Project Cost					
ITE	Intelligent Transportation System	TSM	Transportation System Management					
MAP-21	Moving Ahead for Progress in the 21st							
	Century Act							

Important points to remember when interpreting the data in the project listing charts:

The TIP deals with fiscal years, not calendar years. As such, the project listing charts summarize planned expenditures for October 1 to September 30. Fiscal year 2021 begins on October 1, 2020.

Expenditures for known programs that did not have specific projects identified at the time this document was developed are not shown, however, they will be amended into the program when the projects are identified.

## **SECTION 2: Financial Plan**

#### Introduction

The Code of Federal Regulations (23 CFR 450.324(h)) specifies the inclusion of a financial plan in the TIP that shows how the projects or project phases identified in the TIP can reasonably be expected to be implemented, with the available public and private revenues identified. TIP projects or project phases are required to be consistent with the LRTP and must be fully funded in the TIP. To the extent that funding is available or shall be reasonably available, priority projects or project phases have been cooperatively selected for inclusion in this TIP. VDOT, DRPT, GLTC and the CVTPO have cooperatively developed financial forecasts for the TIP based on the latest official planning assumptions and estimates of revenue(s) and cost(s). The financial information is given by funding category for the projects listed and expected to be implemented during the four-year period beginning Fiscal Year 2021.

Some projects listed in the TIP may show \$0 for planned obligations. There are several reasons this may occur and include:

Project is complete and awaiting closeout

Subsequent phases beyond 4 years

Information only, funding being pursued

Project to be funded from [category] group funding

In addition to construction projects, financial projections have also been made to show revenues for maintaining and operating the region's highway and transit systems during the same 4-year period.

Funded TIP actions typically include, but are not limited to:

**Transportation Studies** 

Ground Transportation System Improvement Projects (fixed-guide, highway, bicycle, pedestrian, commuter lots, etc.)

Public Transit Systems and Services (components of coordinated human service mobility plans)

System Maintenance (monitoring, repair and/or replacement of system facilities and support sites; snow removal; mowing; painting; rest area or weigh station sites; etc.)

System Operations (ITS-TSM applications; traffic operations such as signalization, signal coordination, ramp meters, or message signs; roadside assistance; incident management; for the urbanized TMAs, their Congestion Management Process activities; VDOT traffic management centers; bridge-tunnel management; toll road or congestion pricing management; etc.)

### **Funding Sources**

The TIP funding summary tables summarize by year and by funding source the revenue amounts estimated and committed for fiscal year 2021 - 2024. The tables include expenditures and estimated revenues expected for each funding source and show that the program is financially constrained by

year. The financial summary tables are based on total funds available, which include annual allocations of funds including any state and local matching dollars. These revenue sources are all reasonably expected to be made available and committed to the project phase during the programmed year of the TIP. The following provides a general overview of funding programs utilized in the development of the TIP. Note: not all funding sources below are applicable in all projects and geographic areas.

HIGHWAY FUNDING PROGRAMS	
Bridge Rehabilitation and Replacements	Provides funding for bridge improvements both on and
(BR/BROS)	off the National Highway System (NHS)
Congestion Mitigation and Air Quality	Provides flexible funding for congestion reduction and air
Improvement Program (CMAQ)	quality improvement projects and programs; funding only
•	available for areas not meeting federal air quality
	standards or maintenance areas
Demonstration Program (DEMO)	Provides specialized funding to demonstration, priority,
	pilot, or special interest projects
Highway Safety Improvement Program	Funds projects to reduce traffic fatalities and serious
(HSIP)	injuries on public roads; set aside for Railway Highway
	Crossings Program
National Highway Freight Program	Provides funding to improve the movement of freight on
(NHFP)	the National Highway Freight Network (NHFN)
National Highway System/National	Funds projects to construct new facilities on or improve
Highway	the condition and performance of the National Highway
Performance Program (NHS/NHPP)	System (NHS)
Regional Surface Transportation Program	Provides funding for a broad range of capacity,
	operational, and congestion mitigation related
	improvements. Allocated directly to the regional MPO.
Surface Transportation Program/Surface	Provides flexible funding for wide range of eligible
Transportation Block Grant Program	projects and programs to address state and local
(STP/STBG)	transportation needs
Transportation Alternatives	Provided for bicycle and pedestrian facilities through the
Program/Transportation Alternative Set-	Surface Transportation Block Grant. A set aside from each
Aside	state's allocation of STBG funds must be used for
(TAP/TA Set-Aside)	Transportation Alternatives activities.
Urbanized Area Formula Grants (5307)	Provides funding to public transit systems in large urban
	areas for capital, planning, job access projects, and some operating expenses such as ADA paratransit and
	preventive maintenance
Fixed Guideway Capital Investment Grants	Discretionary program for funding major transit capital
(5309)	projects such as BRT, light rail, and streetcars
Enhanced Mobility of Seniors and	Program to assist local transit agencies, governments, and
Individuals	nonprofit groups in meeting needs of elderly and persons
with Disabilities (5310)	with disabilities
Rural Area Formula Grants (5311)	Provides funding for capital, planning and operating
	assistance to support public transportation in small urban
	and rural areas under 50,000 in population
State of Good Repair Formula Program	Provide capital assistance for maintenance, replacement,
(5337)	and rehabilitation of existing fixed guideway (e.g., rail
	lines, bus lanes) facilities to maintain state of good repair

HIGHWAY FUNDING PROGRAMS	
<b>Bus and Bus Facilities Formula Program</b>	Provides funding to transit agencies and states to replace,
(5339a)	rehabilitate and purchase buses and related equipment
	and to construct bus-related facilities
<b>Bus and Bus Facilities Discretionary Grants</b>	Discretionary component of the program to fund the
(5339b)	same bus and bus facility improvements; includes Low or
	No Emissions Bus Program

#### **Financial Assumptions**

The TIP financial plan is required to include only committed and/or reasonably available transportation funding sources. The estimates on funding sources and costs are based on reasonable financial principles and recent information. The financial estimates for both revenues and costs are given in year of expenditure dollars and reflect growth and inflation factors. VDOT cost estimates are from the VDOT Project Cost Estimating System. For projects not administered by the state, cost estimates are developed cooperatively through the CVTPO or responsible local governments and agencies. Maintenance and construction program financial planning assumptions used for the FY21 – FY24 TIP are consistent with assumptions and distribution methodology used for the adopted Transportation Plan.

**Table 1: Highway Projects** 

	FFY	2021	FFY 2	2022	FFY :	2023	FFY 2	2024	TO	TAL
Fund Source	Projected Obligation Authority	Planned Obligation								
Federal										
HSIP	\$50,000	\$50,000	\$65,166	\$65,166	\$1,019,523	\$1,019,523	\$0	\$0	\$1,134,689	\$1,134,689
NHS/NHPP	\$3,292,986	\$3,292,986	\$0	\$0	\$0	\$0	\$0	\$0	\$3,292,986	\$3,292,986
RAIL	\$0	\$0	\$0	\$0	\$0	\$0	\$450,000	\$450,000	\$450,000	\$450,000
STP/STBG	\$4,451,001	\$4,451,001	\$0	\$0	\$0	\$0	\$0	\$0	\$4,451,001	\$4,451,001
Subtotal Federal	\$7,793,987	\$7,793,987	\$65,166	\$65,166	\$1,019,523	\$1,019,523	\$450,000	\$450,000	\$9,328,676	\$9,328,676
Other										
State Match	\$721,796	\$721,796	\$7,241	\$7,241	\$113,280	\$113,280	\$50,000	\$50,000	\$892,317	\$892,317
Subtotal Other	\$721,796	\$721,796	\$7,241	\$7,241	\$113,280	\$113,280	\$50,000	\$50,000	\$892,317	\$892,317
Total	\$8,515,783	\$8,515,783	\$72,407	\$72,407	\$1,132,803	\$1,132,803	\$500,000	\$500,000	\$10,220,993	\$10,220,993
Federal - ACC (1)										
HSIP	\$0	\$0	\$104,834	\$104,834	\$143,601	\$143,601	\$0	\$0	\$248,435	\$248,435
NHFP	\$0	\$0	\$0	\$0	\$141,082	\$141,082	\$0	\$0	\$141,082	\$141,082
NHPP/E	\$0	\$0	\$0	\$0	\$0	\$0	\$495,057	\$495,057	\$495,057	\$495,057
NHS/NHPP	\$1,062,256	\$1,062,256	\$2,563,644	\$2,563,644	\$3,206,665	\$3,206,665	\$5,677,284	\$5,677,284	\$12,509,849	\$12,509,849
STP/STBG	\$0	\$0	\$1,553,094	\$1,553,094	\$3,754,073	\$3,754,073	\$1,421,886	\$1,421,886	\$6,729,053	\$6,729,053
Subtotal Federal - ACC (1)	\$1,062,256	\$1,062,256	\$4,221,572	\$4,221,572	\$7,245,421	\$7,245,421	\$7,594,227	\$7,594,227	\$20,123,476	\$20,123,476
Maintenance - Federal (4)	Maintenance - Federal (4)									
STP/STBG	\$15,913,019	\$15,913,019	\$22,187,317	\$22,187,317	\$23,657,244	\$23,657,244	\$22,442,680	\$22,442,680	\$84,200,260	\$84,200,260
Subtotal Maintenance - Federal (4)	\$15,913,019	\$15,913,019	\$22,187,317	\$22,187,317	\$23,657,244	\$23,657,244	\$22,442,680	\$22,442,680	\$84,200,260	\$84,200,260

- (1) ACC -- Advance Construction -- Funding included in Federal Category based on year of AC Conversion
- (2) CMAQ/RSTP includes funds for TRANSIT projects
- (3) Statewide and/or Multiple MPO Federal Funding to be obligated in Multiple MPO Regions and/or Statewide for projects as identified
- (4) Maintenance Projects Funding to be obligated for maintenance projects as identified

## SECTION 3: Highway Transportation Improvement Program

## **Interstate Projects**

UPC NO	0	115852	SCOPE	Traffic Management/Engineering				
SYSTE	М	Interstate	JURISDICTION	Statewide		OVERSIGHT	NFO	
PROJE	PROJECT ITTF FY20 Micro Tra		ansit			ADMIN BY	DRPT	
DESCR	RIPTION	FROM: Various TO:	ROM: Various TO: Various					
ROUTE	STREET	9999	9999				\$500,000	
	FUND SOU	RCE	MATCH	FY21	FY23	FY24		
PE AC	Federal - A	- AC OTHER \$0		\$500,000	\$0	\$0	\$0	

## **Primary Projects**

MPO	Lynchburg						
UPC NO	64773	SCOPE	Safety				
SYSTEM	Primary	JURISDICTION	Lynchburg	Lynchburg OVERSIGHT NFO			
PROJECT	RTE 29/460 - ACCESS MANAGEMENT ADMIN			ADMIN BY	VDOT		
DESCRIPTION	FROM: 0.163 MILE EAST INT. RTE 501 TO: 1.475 MILE EAST INT. RTE 501 (1.3110 MI)						
PROGRAM NOTE	Rollover project to a consistent with the		IP based on STIP A	DJ # FFY20-11 STIP	processed 4/22/20.	Project is	
ROUTE/STREET	RICHMOND HIGH	VAY (0460)			TOTAL COST	\$21,220,159	
FUND SOL	FUND SOURCE MATCH FY21 FY22			FY22	FY23	FY24	
·		\$0	\$0	\$0	\$0	\$0	

## **Secondary Projects**

UPC N	10	110390	SCOPE				
SYSTE	EM	Secondary	JURISDICTION	Amherst County		OVERSIGHT	NFO
PROJE	ECT	#HB2.FY17 RTE 68	32 - RECONSTRUCT	TION GARVEE DEB	T SERVICE	ADMIN BY	VDOT
DESC	RIPTION						
PROG	PROGRAM NOTE Includes \$379,889 GARVEE Debt Service Interest Prev, \$309,640 GARVEE Debt Service Interest FFY21, \$303, GARVEE Debt Service Interest FFY22, \$285,095 GARVEE Debt Service Interest FFY23, \$266,016 GARVEE Debt Service Interest FFY24, \$1,428,681 GARVEE Debt Service Interest FFY25-35. Total GARVEE Debt Service In \$2,972,574						SARVEE Debt
ROUTI	E/STREET	0682				TOTAL COST	\$2,972,574
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24
PE	Federal - A	CCONVERSION	\$0	\$0	\$303,254	\$285,095	\$266,016
Federal - STP/STBG			\$0	\$309,640	\$0	\$0	\$0
PE TOTAL \$0				\$309,640	\$303,254	\$285,095	\$266,016
PE AC	Federal - A	C	\$0	\$2,283,046	\$0	\$0	\$0

## **Urban Projects**

UPC N	0	110391	SCOPE				
SYSTE	M	Urban	JURISDICTION	Lynchburg		OVERSIGHT	NFO
PROJE	CT	#HB2.FY17 ODDFE	ELL'S RD SEG B2 RI	ECON GARVEE DE	BT SERVICE	ADMIN BY	VDOT
DESCF	RIPTION						
Service Interest FF			vice Interest FFY22, Y24, \$1,897,402 GAI ponding CN UPC 10	\$497,319 GARVEE RVEE Debt Service	573,808 GARVEE D Debt Service Interes Interest FFY25-FFY3 ed in the Lynchburg	t FFY23, \$456,150 G 33. Total GARVEE D	SARVEE Debt ebt Service Interest
ROUTE	STREET	9999				TOTAL COST	\$5,780,970
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24
PE	Federal - A	C CONVERSION	\$0	\$0	\$536,505	\$497,319	\$456,150
	Federal - STP/STBG		\$0	\$573,808	\$0	\$0	\$0
PE TO	TAL		\$0	\$573,808	\$536,505	\$497,319	\$456,150
PE AC	Federal - A	C	\$0	\$3,387,375	\$0	\$0	\$0

UPC N	0	106320	SCOPE	Reconstruction w/ A	Reconstruction w/ Added Capacity				
SYSTE	M	Urban	JURISDICTION	Lynchburg		OVERSIGHT	NFO		
PROJE	PROJECT UR-6056 - D/B WIDEN FROM 2 TO 4			ANES (GREENVIEV	V DRIVE)	ADMIN BY	VDOT		
DESCRIPTION FROM: 0.010 MI NORTH OF SC 1541 (I				HERMITAGE RD) T	O: 0.215 MI SOUTH	OF UR-6066 (LEES	VILLE RD) (0.6200		
ROUTE	STREET	GREENVIEW DRIV	E (6056)			TOTAL COST	\$14,285,241		
	FUND SOU	IRCE	MATCH	FY21	FY22	FY23	FY24		
CN	Federal - A	C CONVERSION	\$0	\$0	\$495,561	\$513,854	\$532,876		
	Federal - S	TP/STBG	\$0	\$471,643	\$0	\$0	\$0		
CN TO	TAL		\$0	\$471,643	\$495,561	\$513,854	\$532,876		
CN AC			\$0	\$4,609,064	\$0	\$0	\$0		
	Federal - AC OTHER \$0		\$721,862	\$0	\$0	\$0			
CN AC			\$0	\$5,330,926	\$0	\$0	\$0		

UPC N	0	106537	SCOPE	Reconstruction w/ A	Added Capacity		
SYSTE	M	Urban	JURISDICTION	Lynchburg		OVERSIGHT	NFO
PROJECT UR-6056 - D/B WI			EN FR 2-4 LNS (GR	EN FR 2-4 LNS (GREENVIEW DR) DEBT SERVICE			VDOT
DESCRIPTION FROM: SC-1541 (HERMITAGE RD) TO: 0.220Mi. S. UR-6066 (LEESVILLE RD) (0.4					(0.4500 MI)		
GARVEE Debt Ser Service Interest FF			4 GARVEE Debt Ser vice Interest FFY22, Y24, \$454,548 GAR\ ponding CN UPC 10	\$192,688 GARVEE   VEE Debt Service In	Debt Service Interes	t FFY23, \$166,844 G	SARVEE Debt
ROUTE	E/STREET	GREENVIEW DRIV	E (6056)			TOTAL COST	\$2,644,567
	FUND SOL	IRCE	MATCH	FY21	FY22	FY23	FY24
PE	Federal - A	C CONVERSION	\$0	\$0	\$217,774	\$192,688	\$166,844
Federal - STP/STBG		\$0	\$241,639	\$0	\$0	\$0	
PE TO	TAL		\$0	\$241,639	\$217,774	\$192,688	\$166,844
PE AC	Federal - A	С	\$0	\$1,031,853	\$0	\$0	\$0

UPC NO	0	105515	SCOPE	New Construction Roadway						
SYSTE	M	Urban	JURISDICTION	Lynchburg OVERSIGHT FO						
PROJE	СТ	RTE 29/460 - D/B II	NTERCHANGE & EX	XTENSION (ODD FELLOWS ROAD) ADMIN BY VDOT						
DESCR	RIPTION	FROM: 0.48 MI. W.	ROM: 0.48 MI. W. OF ODD FELLOWS ROAD TO: 0.54 MI. E. OF ODD FELLOWS ROAD (1.0220 MI)							
PROGR	RAM NOTE	All funding obligated	d based on current a	llocations/estimate.	Linked with UPC 106	6533				
ROUTE	STREET	RICHMOND HIGHW	VAY (6029)			TOTAL COST	\$40,982,810			
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24			
			\$0	\$0	\$0	\$0	\$0			

UPC N	10	113116	SCOPE	Reconstruction w/ A	Added Capacity						
SYSTE	M	Urban	JURISDICTION	Lynchburg		OVERSIGHT					
PROJE	ECT	#SMART20 RTE 2	21/501 - INTERSECT	TION IMPROVEMEN	IT (SPLIT PAIR)	ADMIN BY	Locally				
DESC	DESCRIPTION FROM: BREEZEW		OOD DRIVE TO: RT	DOD DRIVE TO: RTE 501 (DESMOND T. DOSS MEM. EXP.) (_)							
NHPP) & \$2,49		NHPP) & \$2,499,2	\$874,690 (NHPP/E) FFY21, add \$2,285,646 (NHPP/E) FFY22 PE phase; release \$2,096,140 (AC-61 (AC-NHPP/E) FFY21, release \$909,777 (REVSH), add \$1,088,305 (NHPP/E) & \$4,578,358 V phase; add \$3,423,163 (REVSH) & \$25,398,124 (AC-Other) FFY22 CN phase								
ROUT	E/STREET	ROUTE 501 (LYNG	CHBURG EXPRESSI	WAY) (0221)		TOTAL COST	\$47,282,472				
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24				
PE	Federal - A	C CONVERSION	\$0	\$0	\$2,295,066	\$0	\$0				
	Federal - N	HPP/E	\$0	\$25,310	\$2,285,646	\$0	\$0				
PE TO	TAL	THE REPORT OF THE PARTY OF THE	\$0	\$25,310	\$4,580,712	\$0	\$0				
PE AC	Federal - A	С	\$0	\$2,295,066	\$0	\$0	\$0				
RW	Federal - N	HPP/E	\$0	\$0	\$1,088,305	\$0	\$0				
	Federal - N	HS/NHPP	\$0	\$0	\$4,578,358	\$0	\$0				
	Other		\$2,382,668	\$0	\$2,382,668	\$0	\$0				
RW TO	TOTAL		\$2,382,668	\$0	\$8,049,331	\$0	\$0				
CN	Other		\$3,423,163	\$0	\$3,423,163	\$0	\$0				
CN AC	Federal - A	COTHER	\$0	\$0	\$25,398,124	\$0	\$0				

UPC NO	112842	SCOPE	Safety					
SYSTEM	Urban	JURISDICTION	Lynchburg OVERSIGHT NFO					
PROJECT	ADAPTIVE SIGNAL	CONTROL - RIVER	RMONT - FIBER INSTALLATION ADMIN BY Locally					
DESCRIPTION	FROM: UR 6012 TO: UR 6020 (1.0200 MI)							
PROGRAM NOTE	All funding obligated	d based on current a	llocations/estimate.					
ROUTE/STREET	RIVERMOUNT AVE	ENUE (0501)			TOTAL COST	\$105,000		
FUND SOURCE MATCH		MATCH	FY21	FY22	FY23	FY24		
		\$0	\$0	\$0	\$0	\$0		

UPC N	0	106533	SCOPE	New Construction F	Roadway		
SYSTEM Urban JURIS			JURISDICTION	Lynchburg		OVERSIGHT	FO
PROJECT RTE 29/460 - INTCHG & EXT (ODD FE				ELLOWS RD) DEBT SERVICE AD		ADMIN BY	VDOT
DESCR	RIPTION	FROM: VARIOUS T	O: Various				
ROUTE	STREET	VARIOUS (6029)				TOTAL COST	\$47,034,618
	FUND SOU	IRCE	MATCH	FY21	FY22	FY23	FY24
PE	PE Federal - NHS/NHPP		\$0	\$3,292,986	\$0	\$0	\$0
PE AC	PE AC Federal - AC \$0		\$30,549,818	\$0	\$0	\$0	

## **Project Groupings**

GROU	PING	Construction : Bridg	nstruction : Bridge Rehabilitation/Replacement/Reconstruction							
ROUTE	E/STREET		TOTAL COST \$47,845							
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24			
CN	Federal - A	CONVERSION	\$1,708,141	\$1,062,256	\$2,563,644	\$3,206,665	\$0			

GROUI	PING	Construction : Rail	nstruction : Rail						
ROUTE	ROUTE/STREET TOTAL COST \$1,						\$1,950,000		
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24		
PE	Federal - R	AIL	\$5,556	\$0	\$0	\$0	\$50,000		
CN	Federal - RAIL		\$44,444	\$0	\$0	\$0	\$400,000		

GROU	JPING	Construction : Safe	ty/ITS/Operational In	nprovements			
ROUT	E/STREET					TOTAL COST	\$101,148,668
	FUND SOL	IRCE	MATCH	FY21	FY22	FY23	FY24
PE	Federal - A	C CONVERSION	\$11,648	\$0	\$104,834	\$0	\$0
	Federal - H	SIP	\$15,000	\$50,000	\$0	\$85,000	\$0
PE TO	OTAL		\$26,648	\$50,000	\$104,834	\$85,000	\$0
RW	Federal - A	C CONVERSION	\$15,956	\$0	\$0	\$143,601	\$0
	Federal - H	SIP	\$7,241	\$0	\$65,166	\$0	\$0
	Federal - S	TP/STBG	(\$2,672)	(\$10,688)	\$0	\$0	\$0
RW T	OTAL		\$20,524	(\$10,688)	\$65,166	\$143,601	\$0
CN	Federal - H	SIP	\$103,836	\$0	\$0	\$934,523	\$0
	Federal - S	TP/STBG	\$716,240	\$2,864,959	\$0	\$0	\$0
CN TO	CN TOTAL		\$820,076	\$2,864,959	\$0	\$934,523	\$0

GROUPING	Construction : Trans	onstruction : Transportation Enhancement/Byway/Non-Traditional							
ROUTE/STREET		TOTAL COST \$2,000,00							
FUND SOL	IRCE	MATCH	FY21	FY22	FY23	FY24			
		\$0	\$0	\$0	\$0	\$0			

GRO	UPING	Maintenance :	Preventive Maintenance ar	nd System Preservation	1						
PROC	GRAM NOTE	Funding identif	ied to be obligated districty	to be obligated districtwide as projects are identified.							
ROUT	TE/STREET					TOTAL COST	\$61,898,403				
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24				
CN	Federal - S	TP/STBG	\$	0 \$12,169,660	\$17,224,147	\$16,033,673	\$16,470,923				
MPO	Note		TIP AMD - add an a	ddt'l \$1,100,029 (STP/	STBG) FFY22						

GROU	ROUPING Maintenance : Preventive Maintenance for Bridges							
PROG	PROGRAM NOTE Funding identified to be obligated districtwide as projects are identified.							
ROUTE	E/STREET					TOTAL COST	\$17,615,173	
	FUND SOURCE		MATCH	FY21	FY22	FY23	FY24	
CN	CN Federal - STP/STBG		\$0	\$2,690,090	\$4,917,611	\$6,249,068	\$3,758,404	

GROL	JPING	Maintenance : Traffic and Safety Operations							
PROG	RAM NOTE	NOTE Funding identified to be obligated districtwide as projects are identified.							
ROUT	E/STREET						TOTAL COST		\$7,026,389
	FUND SOU	RCE	MATCH		FY21	FY22	FY23	FY24	
CN	N Federal - STP/STBG			\$0	\$1,053,269	\$2,385,264	\$1,374,503		\$2,213,353
MPO Note TIP AMD - add an addit					dit'l \$1,239,676 (STP/	STBG) FFY22	•		

# SECTION 4: Public Transportation & Transportation Demand Management (TDM) Projects

#### TRANSIT COSTS (in \$1,000's)

	Previous Funding	FY 2021	FY 2022	FY 2023	FY 2024	Total FY 2021	-2024	
CENTRAL VI	RGINIA TRAN	ISPORTATION P	LANNING OR	GANIZATION				
STIP ID:	GLTC001	Title: Operatin	ng Assistance		Recipient: Gr	Recipient: Greater Lynchburg Transit Co.		
FTA 5307	2,702	2,037	3,372	2,212	2,297	FTA 5307	8,678	
State		2,044	2,245	2,125	2,156	State	8,420	
Local		3,041	1,504	3,469	3,680	Local	13,458	
Revenues		1,367	1,148	1,411	1,438	Revenues	5,605	
Year Total:		8,489	8,269	9,217	9,571	Total Funds:	36,161	
Description:								
STIP ID:	GLTC006	Title: Replacer	ment Rolling St	ock	Recipient: Gr	eater Lynchburg T	ransit Co.	
FTA 5307		-	2,702			FTA 5307	2,702	
Flexible STP		-	719			Flexible STP	719	
FTA 5339		714	106			FTA 5339	820	
Adjustment		-	53			Adjustment	53	
State		1,000	6,106			State	7,106	
Local		71	6			Local	77	
Year Total:		1,785	9,639			Total Funds:	11,424	
Description:								
STIP ID:	GLTC010	Title: Expansio	on Rolling Stock	(	Recipient: Gr	eater Lynchburg T	ransit Co.	
FTA 5339		-	-	-	-	FTA 5339	990	
State		-	-	-	-	State	198	
Local		-	-	-	-	Local	49	
Year Total:		-	-	-	-	Total Funds:	1,237	
Description:		1	•	1	ı	1		
STIP ID:	GLTC012	Title: Spare Pa	nrts		Recipient: Gr	eater Lynchburg T	ransit Co.	
FTA 5339		120	-	-	-	FTA 5339	120	
State		168	-	-	-	State	168	
Local		12	-	-	-	Local	12	
Year Total:		300	-	-	-	Total Funds:	300	

STIP ID:	GLTC002	Title: Transfer L	ocation Improve	ements	Recipient: Gre	ater Lynchburg 1	Transit Co.
TA 5339		-	-	-	-	FTA 5339	0
State		-	-	-	-	State	0
Local		-	-	-	-	Local	0
Year Total:		-	-	-	-	Total Funds:	0
Description:			·		•		
	_						
STIP ID:	GLTC018	Title: Purchase	tle: Purchase Passenger Shelters		Recipient: Gre	ater Lynchburg 1	Transit Co.
FTA 5339		-	-	-	49	FTA 5339	49
State		-	-	-	10	State	10
Local		-	-	-	2	Local	2
Year Total:		-	-	-	61	Total Funds:	61
Description:					•		
	•						
STIP ID:	GLTC020	Title: Vehicle Lo	ocator System		Recipient: Greater Lynchburg Transit Co.		
FTA 5339		202	-	-	112	FTA 5339	314
State		282	-	-	22	State	384
Local		20	-	-	6	Local	26
Year Total:		504	-	-	140	Total Funds:	644
Description:					•		
	•						
STIP ID:	GLTC021	Title: Purchase	Support Vehicle	es	Recipient: Gre	ater Lynchburg 1	Fransit Co.
	GLTC021	Title: Purchase	Support Vehicle -	es 120	Recipient: Great	ater Lynchburg 1	Fransit Co.
FTA 5339	GLTC021		, ,			, ,	
FTA 5339 State	GLTC021	-	-	120	144	FTA 5339	264
FTA 5339 State Local	GLTC021			120 24	144 29	FTA 5339 State	264 53
FTA 5339 State Local <b>Year Total:</b>	GLTC021			120 24 6	144 29 7	FTA 5339 State Local Total	264 53 13
FTA 5339 State Local <b>Year Total:</b>	GLTC021			120 24 6	144 29 7	FTA 5339 State Local Total	264 53 13
FTA 5339 State Local Year Total: Description:	GLTC021  CVACL01			120 24 6	144 29 7 180	FTA 5339 State Local Total Funds:	264 53 13 <b>330</b>
State Local  Year Total: Description:  STIP ID:		- - - -		120 24 6	144 29 7 <b>180</b> Recipient: Cen	FTA 5339 State Local Total Funds:	264 53 13 <b>330</b>
STIP ID: FTA 5339 State Local Year Total: Description: STIP ID: FTA5310 State		Title: Paratransi	t Vehicles	120 24 6 <b>150</b>	144 29 7 180  Recipient: Cen	FTA 5339 State Local Total Funds:	264 53 13 <b>330</b>

Description:

Year Total:		100	427	135	135	Total	797
						Funds:	
Description:							
STIP ID: CVACL02 Title: Operating Assistance Recipient: Central VA Alliance for					for		
					Community	Living	
FTA5310		41	31	46	46	FTA 5310	164
State		33	25	37	37	State	132
Local		8	6	9	9	Local	32
Year Total:		82	62	92	92	Total	328
						Funds:	
Description:							

STIP ID:	LFS001	Title: Paratransit Vehicles		Recipient: Lutheran Family Services of Virginia			
FTA5310			55			FTA 5310	55
State						State	-
Local						Local	-
Year Total:			55			Total	55
						Funds:	
Description:							

STIP ID:	PS0001	Title: Paratransit Vehicles	Recipient: Piedmont Senior Resources AAA
FTA5310		52	FTA 5310 52
State		-	State -
Local		13	Local 13
Year Total:		65	Total 65 Funds:
Description:			, , , , , , , , , , , , , , , , , , , ,

#### Public Transportation Agency Safety Plan Targets

The Department of Rail and Public Transportation (DRPT) is the sponsor for the Statewide Tier II Group PTASP (Public Transportation Agency Safety Plan). The Central Virginia Transportation Planning Organization programs federal transportation funds for the Greater Lynchburg Transit Company (GLTC). GLTC is a Tier II agency participating in the DRPT sponsored group PTASP Plan. The TPO has adopted the <u>Tier II PTASP</u> into its TIP through an administrative adjustment by reference and integrated the goals measures and targets described in the 2020 Commonwealth of Virginia Tier II Group Transit Asset Management Plan, August 11, 2020 into the MPO's planning and programming process. GLTC staff has discussed these safety targets and support their inclusion in the CVTPO TIP.

Specific targets for the Tier II Group PTASP Plan are included in the table below.

МРО	CVMPO	CVMPO
Agency Name	GLTC	GLTC
Transit Mode	Fixed Route	Paratransit/ Demand Response
Fatalities (total number of reportable fatalities per year)	0	0
Fatalities (rate per total vehicle revenue miles by mode)	0	0
Injuries (total number of reportable injuries per year)	5	1
Injuries (rate per total vehicle revenue miles by mode)	Less than .5 injuries per 100,000 vehicle revenue miles	Less than .75 injuries per 100,000 vehicle revenue miles
Safety events (total number of safety events per year)	11	2
Safety events (rate per total vehicle revenue miles by mode)	Less than 1 reportable event per 100,000 vehicle revenue miles	Less than 1.5 reportable event per 100,000 vehicle revenue miles
Distance between Major Failures	15,000 miles	65,000 miles
Distance between Minor Failures	3,200 miles	10,000 miles

# SECTION 5: Six-Year Airport Project Grant Fund

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
RESOURCES					
Federal Aviation Administration Virginia Department of Aviation Local (Airport) Pay-As-You-Go	\$1,260,000 140,000	\$10,350,000 1,150,000	\$900,000 100,000	\$1,800,000 200,000	\$2,700,000 300,000
TOTAL ESTIMATED RESOURCES	\$1,400,000	\$11,500,000	\$1,000,000	\$2,000,000	\$3,000,000
PROPOSED PROJECTS  North GA Development Area, Phase II (Taxiway/Apron Construction) Runway 4-22 Rehabilitation & Lighting (LED HIRL) Runway 4-22 MALSF Taxiway "B" Rehabilitation North GA Development Area, Phase III (Final Apron Construction)	1,400,000	11,500,000	1,000,000	2,000,000	3,000,000
TOTAL PROPOSED PROJECTS	\$1,400,000	\$11,500,000	\$1,000,000	\$2,000,000	\$3,000,000

## APPENDIX A: Projects by Grouping

## Construction: Bridge Rehabilitation/Replacement/Reconstruction

	Syst	em UPC .	Jurisdiction / Name / Description	Street(Route)	Estimate	
Miscellaneous	T19026	Lynchburg District-wide	9 0000		\$0	
		BRIDGE REHABILITA	TION/REPLACEMENT			
Primary	104600	Campbell County	WARDS ROAD (002	29)	\$17,161,661	
		RTE 29 NBL - BRIDGE	& APPR. OVER NS RR FED. ID. NO	. (04144)		
		FROM: 0.006 MILE NO	ORTH OF RTE 679 TO: 0.513 MILES N	NORTH OF RTE 679 (0.5070 MI)		
Secondary	97711	Bedford County	, ,			
		RTE. 621 OVER IVY C	PLACEMENT			
		FROM: 1.1 Mi. East of	Rte. 662 TO: 0.5 Mi. West of Rte. 660	(0.2500 MI)		
Secondary	51916	Bedford County	GOODE ROAD (066	68)	\$4,819,174	
		#SGR Rt 668 Over NSI	RR(STR 02785) Replace Brg & Impro	ve Appro		
		FROM: 0.33 mi North o	of Rt. 702 (Prophet Rd) TO: 0.37 mi Sc	outh of Rt. 840 (Pilgrim Rd) (0.1990 MI)		
Urban	104599	Lynchburg	RICHMOND HIGHW	/AY (0029)	\$15,861,218	
		RTE 29 SBL & NBL - B	R & APPR OVER NSRR FED ID 2057	79 & 20580		
		FROM: 0.320 MILES W	VEST OF NS RAILROAD TO: 0.300 M	ILES EAST OF NS RAILROAD (0.6200 MI)		
Urban	111279	Lynchburg	RICHMOND HIGHW	/AY (0029)	\$6,842,565	
		#SGR - RTE 29 SBL - I	ID 20579)			
		FROM: 0.118 MILES W	VEST OF NS RAILROAD TO: 0.096 M	ILES EAST OF NS RAILROAD (0.2140 MI)		
Construction : Brid	lge Rehabil	itation/Replacement/Red	construction Total		\$47,845,437	

### Construction: Rail

	Syste	em UPC Jurisc	diction / Name / Description	Street(Route)	Estimate	
Miscellaneous	T23508	Lynchburg District-wide	0000		\$0	
		CN RAIL				
Miscellaneous	112018	Statewide	HIGHWAY-RAIL SA	FETY (0000)	\$700,000	
		Highway-Rail Safety Invento	ory Section 130 PE Only			
		FROM: Statewide TO: State	wide			
Miscellaneous	112213	Statewide HIGHWAY RAIL SAFETY (0000)		\$300,000		
		Highway-Rail Section 130 Pre Scoping PE Only				
		FROM: Statewide TO: State	wide			
Miscellaneous	112497	Statewide	VARIOUS (0000)		\$500,000	
		ENVIRONMENTAL EQ429	FORM PROCESSING CHARGE	S		
		FROM: FOR HIGHWAY/RA	IL SAFETY PROJECTS WITHOU	JT PE NUMBERS TO: ASSIGNED		
Urban	115031	Lynchburg	CHAPEL LANE (999	99)	\$450,000	
		CHAPEL LANE - INSTALL F	FLASHING LIGHTS & GATES			
		FROM: OLD FOREST RD T	O: 0.220 MILE NORTH OF OLD	FOREST ROAD (0.2200 MI)		
Construction : Rail	Total				\$1,950,000	

## Construction: Safety/ITS/Operational Improvements

	Syste	em	UPC Jurisdiction	/ Name / Description	Street(Route)	Estimate		
Enhancement	109730	Lynchburg		STONERIDGE ST	REET (EN16)	\$112,422		
		SRTS - DEARIN	GTON ELEMENT	ARY SCHOOL (TAP GRA	ANT)			
		FROM: CAROLI	NE STREET TO:	KIRBY STREET (0.0860	MI)			
Interstate	107802	Statewide		9999		\$918,907		
		Incident Manage	ment Emergency	Evacuation and Detour P	lans			
		FROM: Various	ΓΟ: Various					
Interstate	110551	Statewide		9999		\$362,560		
		Traffic Video Exp	oansion - Statewid	le				
		FROM: Various	ΓΟ: Various					
Interstate	110912	Statewide		9999		\$813,019		
		Statewide Truck	Parking Managen	nent System - Phase 1				
		FROM: Various	ΓΟ: Various					
Interstate	111613	Statewide		9999		\$1,807,000		
		Statewide Truck	Parking Managen	nent System - Phase 2				
		FROM: Various	ΓΟ: Various					
Interstate	111892	Statewide		9999		\$0		
		ATMS - Phase 1	, 2, 3, 4					
		FROM: Various	ΓΟ: Various					
Interstate	114400	Statewide		9999		\$300,000		
		Drone Technolog	gy Project					
		FROM: Various	ΓΟ: Various					
Interstate	115854	Statewide		9999		\$1,250,000		
		ITTF FY20 Arter	ial Operations Pro	gram Dashboard				
		FROM: n/a TO:	n/a					
Interstate	115855	Statewide		9999		\$4,700,000		
		ITTF FY20 High	TF FY20 High Speed Communications					
		FROM: Various	ΓΟ: Various					
Miscellaneous	T19022	Lynchburg Distri	ct-wide	0000		\$0		
		CN: SAFETY/ITS	S/OPERATIONAL	/IMPROVEMENTS				
Miscellaneous	105481	Statewide		0000		\$1,400,000		
		•	•	nce Measrement System)				
		FROM: various						
Miscellaneous	109817	Lynchburg Distri		VARIOUS (9999)		\$515,576		
		SAFETY PRESC	COPING - LYNCH	BURG				
			S TO: VARIOUS					
Miscellaneous	114193	Statewide		VARIOUS (9999)		\$0		
		PEDESTRIAN II	IPROVEMENTS /	AT PRIORITY CORRIDO	R STATEWIDE			
		FROM: VARIOU	S TO: VARIOUS					
Primary	114093	Amherst County		NORTH AMHERS	T HIGHWAY (0029)	\$2,879,985		
		RTE 29 - SHOU	_DER WIDENING	AND RUMBLE STRIPS	(AMHERST)			
		FROM: 0.19 MIL (8.7700 MI)	E NORTH US-29	NB ON RAMP FROM BU	JS US-29 S. INT. TO: US-29 NE	AMHERST NELSON LINE		
Primary	114094	Campbell Count	/	US-29 WARDS RO	OAD (0029)	\$1,338,194		
		RTE 29 - SHOU	_DER WIDENING	AND RUMBLE STRIPS	(CAMPBELL)			
		FROM: RTE 24	TO: RTE 738 (4.5	800 MI)				

	Syste	em UPC Jurisdiction / Name / Description Street(Route)	Estimate				
Primary	109577	Amherst County RICHMOND HIGHWAY (0060)	\$711,613				
		RTE 60 - CONSTRUCT SIDEWALK					
		FROM: RTE 1102 / 1112 (WASHINGTON ST / WHITEHEAD ST) TO: BUS 29 Business (0.3070 MI)					
Primary	108914	4 Bedford County FOREST ROAD (0221)					
		#HB2.FY17 Route 221 Congestion and Safety Improvements					
		FROM: Graves Mill Road TO: Gristmill Drive (0.4000 MI)					
Primary	109555	Lynchburg TIMBERLAKE ROAD (0460)	\$3,233,297				
		#HB2.FY17 BUS 460 - RECONSTRUCT INTERSECTION AT RTE 622					
		FROM: 0.087 MILE WEST OF RTE 622 TO: 0.104 MILE EAST OF RTE 622 (0.1910 MI)					
Primary	111976	Campbell County LUSARDI DR / BROOKNEAL HWY / CAMPBELL HWY (0501)	\$126,079				
		PM3B18 CAMPBELL COUNTY - RTE 501 - CENTERLINE RUMBLE STRIPS					
		FROM: HALIFAX / CAMPBELL COUNTY LINE TO: 0.04 MILES NORTH ROUTE 898 (TRESTLE RD	) (23.2400 MI)				
Primary	107015	Amherst County SOUTH AMHERST HIGHWAY (7029)	\$2,930,241				
		BUS 29 - SHOULDER WIDENING/RUMBLE STRIPS/GR - AMHERST COUNTY					
		FROM: 0.03 MILE NORTH RTE 646 TO: 0.16 MILE NORTH RTE 661 (5.8200 MI)					
rimary	109586	Amherst County SOUTH AMHERST HIGHWAY (7029)	\$2,038,648				
		BUS 29 - CONSTRUCT SIDEWALK (MADISON HEIGHTS)					
		FROM: 0.011 MILE SOUTH RTE 1054 (LAKEVIEW DR) TO: 0.01 MILE NORTH RTE 682 (WOODYS MI)	S LAKE RD) (1.4210				
rimary	108054	Lynchburg District-wide VARIOUS (9999)	\$922,398				
		DISTRICTWIDE - ADA COMPLIANCE CURB RAMP IMPROVEMENTS					
		FROM: VARIOUS TO: VARIOUS					
Primary	112887	Lynchburg District-wide VARIOUS (9999)	\$620,498				
		DISTRICTWIDE CENTERLINE RUMBLE STRIP INSTALLATION					
		FROM: VARIOUS TO: VARIOUS					
Primary		FROM: VARIOUS TO: VARIOUS  Lynchburg District-wide VARIOUS (9999)	\$749,968				
Primary			\$749,968				
Primary		Lynchburg District-wide VARIOUS (9999)	\$749,968				
	113933	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION	\$749,968 \$7,855,088				
	113933	Lynchburg District-wide VARIOUS (9999) DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION FROM: VARIOUS TO: VARIOUS					
	113933	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)	. ,				
Secondary	113933 109550	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION	\$7,855,088				
Secondary	113933 109550 5542	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)	\$7,855,088				
Secondary	113933 109550 5542	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)  Campbell County LYNBROOK ROAD (0622)	\$7,855,088				
Secondary	113933 109550 5542	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)  Campbell County LYNBROOK ROAD (0622)  #SMART18 #SGR - RTE 622 - RECONSTRUCTION	\$7,855,088 \$11,520,435				
Secondary	113933 109550 5542	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)  Campbell County LYNBROOK ROAD (0622)  #SMART18 #SGR - RTE 622 - RECONSTRUCTION  FROM: 0.004 MILE EAST OF ROUTE 683 TO: 1.231 MILE EAST OF ROUTE 683 (1.2270 MI)	\$7,855,088 \$11,520,435				
Secondary	113933 109550 5542	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)  Campbell County LYNBROOK ROAD (0622)  #SMART18 #SGR - RTE 622 - RECONSTRUCTION  FROM: 0.004 MILE EAST OF ROUTE 683 TO: 1.231 MILE EAST OF ROUTE 683 (1.2270 MI)  Campbell County VARIOUS (1520)	\$7,855,088 \$11,520,435				
Secondary Secondary Secondary	113933 109550 5542 114091	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)  Campbell County LYNBROOK ROAD (0622)  #SMART18 #SGR - RTE 622 - RECONSTRUCTION  FROM: 0.004 MILE EAST OF ROUTE 683 TO: 1.231 MILE EAST OF ROUTE 683 (1.2270 MI)  Campbell County VARIOUS (1520)  RTES 1520 & 9070 - CONSTRUCT SIDEWALK	\$7,855,088 \$11,520,435 \$633,550				
Secondary Secondary Secondary	113933 109550 5542 114091	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)  Campbell County LYNBROOK ROAD (0622)  #SMART18 #SGR - RTE 622 - RECONSTRUCTION  FROM: 0.004 MILE EAST OF ROUTE 683 TO: 1.231 MILE EAST OF ROUTE 683 (1.2270 MI)  Campbell County VARIOUS (1520)  RTES 1520 & 9070 - CONSTRUCT SIDEWALK  FROM: VARIOUS TO: VARIOUS	\$7,855,088 \$11,520,435 \$633,550				
Secondary	113933 109550 5542 114091	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)  Campbell County LYNBROOK ROAD (0622)  #SMART18 #SGR - RTE 622 - RECONSTRUCTION  FROM: 0.004 MILE EAST OF ROUTE 683 TO: 1.231 MILE EAST OF ROUTE 683 (1.2270 MI)  Campbell County VARIOUS (1520)  RTES 1520 & 9070 - CONSTRUCT SIDEWALK  FROM: VARIOUS TO: VARIOUS  Lynchburg GRAVES MILL ROAD (6009)	\$7,855,088 \$11,520,435 \$633,550				
Secondary Secondary Urban	113933 109550 5542 114091	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)  Campbell County LYNBROOK ROAD (0622)  #SMART18 #SGR - RTE 622 - RECONSTRUCTION  FROM: 0.004 MILE EAST OF ROUTE 683 TO: 1.231 MILE EAST OF ROUTE 683 (1.2270 MI)  Campbell County VARIOUS (1520)  RTES 1520 & 9070 - CONSTRUCT SIDEWALK  FROM: VARIOUS TO: VARIOUS  Lynchburg GRAVES MILL ROAD (6009)  GRAVES MILL ROAD - INSTALL ADAPTIVE SIGNAL CONTROLS	\$7,855,088 \$11,520,435 \$633,550 \$462,500				
Primary  Secondary  Secondary  Urban	113933 109550 5542 114091	Lynchburg District-wide VARIOUS (9999)  DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION  FROM: VARIOUS TO: VARIOUS  Amherst County WOODY'S LAKE ROAD (0682)  #HB2.FY17 RTE 682 - RECONSTRUCTION  FROM: 0.195 MI. EAST OF RTE. BUS 29 TO: 0.776 MILE EAST OF RTE BUS 29 (0.5800 MI)  Campbell County LYNBROOK ROAD (0622)  #SMART18 #SGR - RTE 622 - RECONSTRUCTION  FROM: 0.004 MILE EAST OF ROUTE 683 TO: 1.231 MILE EAST OF ROUTE 683 (1.2270 MI)  Campbell County VARIOUS (1520)  RTES 1520 & 9070 - CONSTRUCT SIDEWALK  FROM: VARIOUS TO: VARIOUS  Lynchburg GRAVES MILL ROAD (6009)  GRAVES MILL ROAD - INSTALL ADAPTIVE SIGNAL CONTROLS  FROM: RTE 6073 (MCCONVILLE RD) TO: WCL LYNCHBURG (1.4900 MI)	. ,				

	Syst	em	UPC Jurisdiction / Name / Description	Street(Route)	Estimate			
Urban	108165 Lynchburg		LIBERTY MOUNTAIN DRIVE (0906)		\$607,096			
		RTE F906 -						
		FROM: 0.02	1 MILE EAST OF RTE F907 TO: 0.176 MILE E	AST OF RTE F907 (0.1550 MI)				
Urban	8759	Lynchburg	MIDTOWN CONN.	(U000)	\$26,180,934			
		MIDTOWN (	CONNECTOR - NEW 2-LANE, W/ FLUSH MED	., C&G,S/W.				
		FROM: INT.	RTE. 29 BUS. TO: INT. MEMORIAL AVE. (1.02	200 MI)				
Urban	109554	Lynchburg	ODDFELLOWS RO	DAD (9999)	\$16,023,177			
		#HB2.FY17	#HB2.FY17 ODDFELLOWS ROAD SEGMENT B2 - RECONSTRUCTION					
		FROM: 0.10 WEST OF ROUTE 128 (MAYFLOWER DR.) TO: BUS. 29 (LYNCHBURG EXPRESSWAY) (0.4070 M						
Urban	114065	Lynchburg	OLD FOREST ROA	AD (6044)	\$844,779			
		UR 6044 - PEDESTRIAN IMPROVEMENTS (OLD FOREST ROAD)						
		FROM: UR 6	6081 (FOREST BROOK RD) TO: RTE 221 (LA	KESIDE DR) (2.2680 MI)				
Urban	109702	Lynchburg	RIVERMONT AVE	NUE (0501)	\$416,864			
		ADAPTIVE SIGNAL CONTROL - RIVERMONT AVENUE						
		FROM: UR 6012 TO: UR 6020 (1.0200 MI)						
Urban	115489	Lynchburg	RIVERMONT AVE	NUE (9999)	\$485,000			
		#SMART20 RIVERMONT AND BEDFORD AVE INTERSECTION IMPROVEMENT						
		FROM: 0.047 MILE SOUTH OF BEDFORD AVENUE TO: 0.047 MILE NORTH OF BEDFORD AVENUE (0.09						
Construction :	Safety/ITS/Ope	erational Impre	ovements Total		\$101.148.668			

Construction: Transportation Enhancement/Byway/Non-Traditional

			. , , , .			
	System	UPC Jurisdiction	/ Name / Description	Street(Route)	Estimate	
Enhancement	81757 Lynchburg		NA (EN06)		\$0	
	CITY OF L	YNCHBURG - RIVERS	DE PARK MASTER PLA	AN		
	FROM: NA	A TO: NA				
Enhancement	111723 Lynchburg		BLACK WATER C	CREEK TRAIL (EN17)	\$2,000,000	
	LANGHOR	RNE ROAD TRAIL EXTE	NSION			
	FROM: ED	PAGE PARKING LOT	TO: LINKHORNE MIDDI	LE SCHOOL (0.5000 MI)		
Enhancement	17595 Amherst		NA (EN97)		\$0	
	TOWN OF	TOWN OF AMHERST - DEPOT RELOCATION & RENOVATION				
	FROM: NA	A TO: NA				
Miscellaneous	T19016 Lynchburg	District-wide	0000		\$0	
	CN: TRAN					
 Construction : Tran	sportation Enhanceme	ent/Byway/Non-Tradition	al Total		\$2,000,000	

## Maintenance: Preventive Maintenance and System Preservation

	System	UPC Jurisdict	tion / Name / Description	Street(Route)	Estimate
Miscellaneous	T14716 Lynchburg	District-wide	0000		\$60,798,374
STIP-MN Lynchburg: Preventive MN and System Preservation					
Maintenance : Pre	ventive Maintenance ar	id System Preserva	ition Total		\$60.798.374

## Maintenance: Preventative Maintenance for Bridges

			_		
	System	UPC Jurisdiction	on / Name / Description	Street(Route)	Estimate
Miscellaneous	T14715 Lynchburg District-wide		0000		\$17,615,173
	STIP-MN Lynchburg: Preventive MN for Bridges				
Maintenance : Pre	ventive Maintenance for Br	ridges Total			\$17.615.173

## Maintenance: Traffic and Safety Operations

	System	UPC Jurisdiction	on / Name / Description	Street(Route)	Estimate
Miscellaneous	T14714 Lynchburg	g District-wide	0000		\$5,786,713
	STIP-MN Lynchburg: Traffic and Safety Operations				
Maintenance : Tra	ffic and Safety Operat	ions Total			\$5.786.713

Lynchburg MPO Total	\$237,144,365

# APPENDIX B: Statement of Certification and Resolution of Adoption



# METROPOLITAN TRANSPORTATION PLANNING PROCESS SELF-CERTIFICATION STATEMENT

In accordance with 23 CFR 450.336, the Virginia Department of Transportation and the Central Virginia Transportation Planning Organization for the Lynchburg urbanized area hereby certify that the transportation planning process is being conducted in accordance with all applicable requirements of:

- 23 U.S.C. 134, 49 U.S.C. 5303, and 23 CFR part 450 Subpart C (Metropolitan Planning);
- In nonattainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93 (Conformity Determination);
- Title VI of Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1), 49 CFR part 21;
- 49 U.S.C. 5332 prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- Section 1101(b) of the FAST ACT (Pub. L. 114-357) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects (DBE Involvement);
- 23 CFR part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts;
- The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) and 49 CFR parts 27, 37, and 38;
- The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- 9) Section 324 of Title 23, U.S.C., regarding the prohibition of discrimination based on gender; and
- Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities

Central Virginia TPO	Virginia Department of Transportation
They thinker	2 Jackes
Signature	Signature
Secretary, CVTPO	135TOTO YOUND & MANAGER
Title	Title
1 July 2020	7.15.2020
Date	Date



# RESOLUTION OF THE CENTRAL VIRGINIA TRANSPORTATION PLANNING ORGANIZATION TO ADOPT THE CENTRAL VIRGINIA TRANSPORTATION IMPROVEMENT PROGRAM

#### FISCAL YEARS 2021 - 2024

WHEREAS, the Transportation Improvement Program is required to be submitted to the Virginia Department of Transportation for inclusion in the State Transportation Improvement Program; and,

**WHEREAS,** inclusion of transportation projects in the Transportation Improvement Program is a condition of federal participation in the funding of that project; and,

WHEREAS, the Transportation Improvement Program has been prepared to initiate review by the Central Virginia Transportation Planning Organization of proposed transportation improvements for fiscal years 2021 – 2024; and,

WHEREAS, the Transportation Technical Committee has reviewed this document and has recommended that the Central Virginia Transportation Planning Organization forward the Transportation Improvement Program to the Virginia Department of Transportation for inclusion in the State Transportation Improvement Program.

**NOW, THEREFORE, BE IT RESOLVED THAT,** the Central Virginia Transportation Planning Organization, in regular session, does hereby duly adopt the Central Virginia Transportation Improvement Program Fiscal Years 2021 – 2024.

ADOPTED this 18th day of June 2020 by the Central Virginia Transportation Planning Organization.

ATTESTED BY:

CERTIFIED BY:

Gary F. Christie, Secretary

Central Virginia Transportation Planning

Organization

Edgar J. T. Perrew, Jr., Chair

Central Virginia Transportation Planning

Organization

# APPENDIX C: Performance Based Planning and Programming

The two most recent federal transportation laws, MAP-21 and FAST Act establish performance measure requirements to ensure States and Transportation planning organizations (MPOs) are investing transportation funds in projects that collectively will contribute towards the achievement of national goals. The USDOT recently published new rules for States and MPOs to collect data and establish performance targets that will support performance and outcome-based investment decisions.

The new federal performance measurement requirements focus on three main areas – safety, asset management (maintenance), and system performance. Safety measures are associated with highway fatalities and injuries as well as transit fatalities; injuries; and incidents such as derailments, collisions, and fires. Asset management measures are associated with the condition of roads and bridges while system measures are associated with congestion and reliability.

From the 23 CFR 450, Subpart B:

Prior to May 27, 2018, a State may adopt a long-range statewide transportation plan that has been developed using the SAFETEA-LU requirements or the provisions and requirements of this part.

On or after May 27, 2018, FHWA/FTA may only approve a STIP update or amendment that a State has developed according to the provisions and requirements of this part, regardless of when the State developed the STIP.

On or after May 27, 2018, a State may make an administrative modification to a STIP that conforms to either the SAFETEA-LU requirements or to the provisions and requirements of this part.

Two years from the effective date of each rule establishing performance measures under 23

U.S.C. 150(c), 49 U.S.C. 5326, or 49 U.S.C. 5329, FHWA/FTA will only approve an updated or amended STIP that is based on a statewide transportation planning process that meets the performance-based planning requirements in this part and in such a rule.

On October 1, 2016 Virginia submitted to the U.S. Secretary of Transportation the required Initial State Performance Report. This report describes performance management efforts currently underway in Virginia and highlights the State's commitment to investing limited transportation funds in the best manner possible. Virginia is currently reviewing the Final Rules associated with the performance measure requirements; along with available data sources to determine the best manner in which to establish the required performance targets.

VDOT will work with DRPT, TPB, MPOs, PDCs, and other agencies to discuss the methodology, assumptions, and possible targets. Comments from all stakeholders will be considered when determining the performance measures, data sets, methodology, and targets. Statewide performance targets will be set first, in accordance with federally established compliance dates, followed by MPO establishment of performance targets.

In future years the STIP will describe, to the maximum extent possible, the anticipated effect of the STIP toward achieving the performance targets in the following program areas: National Highway Performance Program (NHPP), Highway Safety Improvement Program (HSIP), Congestion Mitigation and Air Quality Improvement Program (CMAQ), and Freight Movement, along with reference to associated state plans, (i.e. State Asset Management Plan, Strategic Highway Safety Plan (SHSP), State Freight Plan, etc.)

Additional information on performance management and performance measures may be found on FHWA's Transportation Performance Management site located here: <a href="https://www.fhwa.dot.gov/tpm/">https://www.fhwa.dot.gov/tpm/</a>.

# Safety Performance Measures

### Performance Targets

In accordance with the requirements of MAP-21 and the FAST Act, Virginia has established safety performance objectives as published in <u>Virginia's 2017 - 2021Strategic Highway Safety Plan (SHSP)</u> and, starting in 2017, annual targets in the Highway Safety Improvement Program (HSIP) Annual Report. The SHSP performance measure objectives are indicated in Table 1 below.

**Table 1: 2017 – 2021 SHSP Safety Performance Objectives** 

	Performance Target	Per Year Reduction
1	Number of Fatalities	2%
2	Rate of Fatalities per 100 Million Vehicle Miles Travelled	3%
3	Number of Serious Injuries	5%
4	Rate Serious Injury Million Vehicle Miles Travelled	7%
	Number of Non-Motorized Fatalities and Non-Motorized Serious	4%

For safety performance measures 1, 2, and 3, annual targets are developed collaboratively by the Department of Motor Vehicles (DMV) Highway Safety Office (HSO) and VDOT HSIP staff.<sup>1</sup> The DMV HSO includes these measures in their Highway Safety Plan submitted to the National Highway Traffic Safety Administration (NHTSA) every June.

The Commonwealth Transportation Board approves all five annual targets and VDOT includes these in the HSIP Annual Report submitted to FHWA every August. Within 180 days of VDOT's annual report submission to FHWA, MPOs must indicate their support of the state targets or submit their unique regional targets for one or more of the safety measures.

#### Connection to Other Performance Based Planning Documents

The federally required SHSP, a five-year multi-agency comprehensive plan focused on reducing fatalities and serious injuries on all public roads, serves as the coordinating document for other plans

<sup>&</sup>lt;sup>1</sup> It is a federal requirement that safety performance measures 1, 2, and 3 are identical targets for NHTSA's Highway Safety Grants Program and FHWA's Highway Safety Improvement Program. This requirement allows States to align their safety performance targets and work collaboratively to achieve them.

and programs that involve traffic safety. This coordination involves the long-range statewide transportation plan (LRSTP), the metropolitan transportation plans (MTP), and three plans that implement parts of the SHSP – the Highway Safety Plan (HSP), the HSIP, and the Commercial Vehicle Safety Plan (CVSP). This integration is important for improving overall safety coordination amongst various partners and leads to more comprehensive transportation safety planning.

The LRSTP, VTrans2040, guides the state's investment decisions for transportation improvements. Safety and performance management is included in the VTrans2040 Vision, Goals & Objectives, and Guiding Principles:

**Guiding Principle 2:** Ensure Safety, Security, and Resiliency – Provide a transportation system that is safe for all users, responds immediately to short-term shocks such as weather events or security emergencies, and adapts effectively to long-term stressors such as sea level rise.

**Guiding Principle 5:** Ensure Transparency and Accountability, and Promote Performance Management – work openly with partners and engage stakeholders in project development and implementation, and establish performance targets that consider the needs of all communities, measure progress towards targets, and to adjust programs and policies as necessary to achieve the established targets.

**Goal C:** Safety for All Users – provide a safe transportation system for passengers and goods on all travel modes.

#### Objectives:

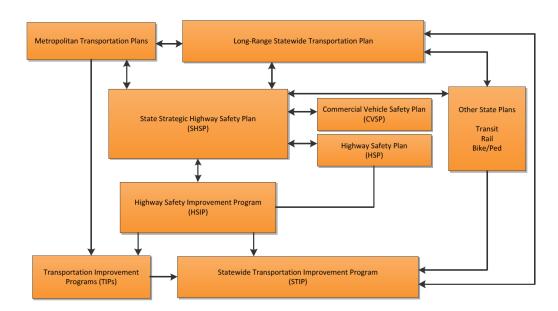
Reduce the number and rate of motorized fatalities and serious injuries.

Reduce the number of non-motorized fatalities and injuries.

MTPs are similar to the LRSTP however a MTP covers a specific metropolitan planning area. MTPs include goals and objectives for their respective areas/regions and identify strategies for advancing long-term transportation investments in a specific region.

The HSP is an annual plan to address highway user behaviors that will improve safety through education and enforcement campaigns. The HSP and associated NHTSA grants are administered through the Highway Safety Office at the DMV. Furthermore, each year Virginia State Police (VSP) submits a Commercial Vehicles Safety Plan (CVSP) to Federal Motor Carrier Safety Administration as a requirement of obtaining related enforcement grants.

The relationship between the various plans and programs is shown here:



Projects in the STIP are directly linked to the safety objectives outlined in the SHSP through the strategies and actions that are priorities in Virginia.

## **Funding for Safety Projects**

Safety targeted improvements are implemented through HSIP projects. Each year Virginia is allocated ~\$55 Million for HSIP and \$5 Million for Railway Grade Crossing improvements. Virginia is also subject to a Penalty Transfer provision, Section 154 "Open Container", such that 2.5% of NHPP funds are reserved for either NHTSA Alcohol-Impaired Driving or HSIP projects. The State determines what proportion goes to each program. Of the HSIP funds, about 10 percent is set aside for non-motorized safety projects and 20 percent of the remainder for improvements on locally-maintained roadways.

How do Safety Projects get selected for Inclusion in the STIP? The HSIP project planning and delivery follows these steps:

Each year highway segment and intersection locations that have the highest potential for safety improvement are identified based on the previous five years of traffic crash and volume data. These above average crash locations are provided to the VDOT Districts to determine appropriate locations and countermeasures for HSIP funding. The potential for vehicle-train crashes at each at-grade railroad crossing is also distributed.

HSIP project proposals are submitted through the SMART Portal for the appropriate safety program.

VDOT and locality submitted HSIP proposals are reviewed and prioritized based on the number of targeted crashes and the benefit to cost ratio or the potential risk reduction for non-motorized and rail highway grade crossing improvements.

Projects are selected and programmed for the last two or three years of the SYIP. At present there are over \$100 million of safety improvement proposals, with an expected benefit, that remain unfunded.

In recent years, programmed priority HSIP projects have shifted from being higher cost spot intersection and segment improvements to lower cost systemic improvements that target specific crash types and/or roadway characteristics that are factors in crashes across the network.

Examples of systemic improvements include traffic signal devices and timing at intersections and curve signing, higher friction surfaces and rumble strips on segments.

Safety improvements are also included within projects funded with non-HSIP funds. The SMART SCALE scoring and prioritization process for inclusion of projects in the SYIP, considers safety benefits from improvements addressing travel of all modes. Many of the large SMART SCALE projects, upon completion, will have distinct impacts on safety performance in the Commonwealth. In addition, projects funded through other state and federal sources in the SYIP, such as the Transportation Alternatives Program, including Safe Routes to School grants, Revenue Sharing, and even some CMAQ and maintenance projects, will also have crash reduction benefits that contribute to improved safety performance.

Thus, the funding to meet Virginia's safety objectives and targets is allocated to projects in the CTB approved SYIP, and is consistent with VTrans2040. Since the SYIP is the foundation for the STIP, the

program of projects in the STIP demonstrates support to achieve Virginia's safety objectives and targets and is consistent with Virginia's SHSP and the HSIP.	performance

# **Transit Asset Management**

The two most recent federal transportation laws, MAP-21 and FAST Act, establish performance measure requirements to ensure states and Transportation planning organizations (MPOs) are investing transportation funds in projects that collectively will contribute towards the achievement of national goals. The USDOT recently published new rules for states and MPOs to collect data and establish performance targets that will support performance and outcome-based investment decisions.

The new federal performance measurement requirement for transit agencies focuses on one area: transit asset management (TAM). The measures look specifically at the percentage of revenue vehicles that have exceeded their Useful Life Benchmark (ULB), the percentage of non-revenue and service vehicles that have exceeded their ULB, and percentage of facilities with a condition below 3.0 on the Federal Transit Administrator's TERM Scale. All transit agencies receiving grants from the FTA are required to complete a TAM plan. The FTA has established two tiers of agencies based on size parameters.

A Tier I agency operates rail, OR has 101 vehicles or more all fixed route modes, OR has 101 vehicles or more in one non-fixed route mode.

A Tier II agency is a subrecipient of FTA 5311 funds, OR is an American Indian Tribe, OR has 100 or less vehicles across all fixed route modes, OR has 100 vehicles or less in one non-fixed route mode.

The Department of Rail and Public Transportation (DRPT) has opted to sponsor a group TAM plan for Tier II providers. Tier I providers are not eligible for group plans.

For further details, refer to the plan of the Greater Lynchburg Transit Company.

For Tier II providers under the DRPT Group Plan, any Transportation Improvement Program (TIP) document or Metropolitan Transportation Plan (MTP) adopted after October 1, 2018 will be in compliance with the TAM Plans developed by DRPT and adopted by the Tier II transit providers within the MPO as well as the regional performance measures adopted by the MPO as a whole. The performance measurements and the targets can be found in the DRPT *Group Transit Asset Management Plan*.

The Central Virginia Transportation Planning Organization's planning process will integrate, either directly or by reference, the goals, objectives, performance measures, and targets described in the applicable Tier I and Tier II group plan.

# Pavement and Bridge Performance Measures

### Performance Targets

In accordance with the requirements of MAP-21 and the FAST Act, Virginia has established pavement and bridge condition performance targets as reported in Virginia's Baseline Performance Period

Report for 2018-2021.<sup>2</sup> This report, submitted to FHWA in October 2018, satisfies the federal requirement that State DOTs submit a Baseline Performance Period Report to FHWA by October 1<sup>st</sup> of the first year in a performance period. Performance measures for pavement condition are required for the National Highway System (NHS), while bridge condition requirements relate to structures identified as part of the National Bridge Inventory on the NHS. The pavement condition measures and established performance targets for the 2018- 2021 performance period are indicated in Table 1 below.

**Table 1: Pavement Condition Measures and Performance Targets** 

Interstate Pavement Condition Measures <sup>3</sup>	CY 2018-2019	CY 2018-2021
Percentage of Pavements in Good Condition	N/A <sup>4</sup>	45.0%
Percentage of Pavements in Poor Condition	N/A <sup>3</sup>	3.0%
Non-Interstate NHS Pavement Condition Measures <sup>5</sup>	2018-2019	2018-2021
Percentage of Non-Interstate Pavements in Good	25.0%	25.0%
Percentage of Non-Interstate Pavements in Poor	5%	5.0%

Bridge condition measures and established performance targets for the 2018-2021 performance period are indicated in Table 2 below.

**Table 2: NHS Bridge Condition Measures and Performance Targets** 

NHS Bridge Condition Measures	CY 2018-2019	CY 2018-2021
	Two Year Target	Four Year Target
Percentage of Deck Area of NBI Bridges on the NHS in Good	33.5%	33.0%
Percentage of Deck Area of NBI Bridges on the NHS in Poor	3.5%	3.0%

<sup>&</sup>lt;sup>2</sup> Virginia's Baseline Performance Period Report data is through December 2017

<sup>&</sup>lt;sup>3</sup> Interstate condition measures are based on four distresses: International Roughness Index (IRI), cracking, rutting, and faulting.

<sup>&</sup>lt;sup>4</sup> During this first performance period, States are not required to establish 2-year targets for interstate pavements;

however, Virginia has chosen to establish performance targets and are 45.0% and 3.0% for percentage of pavements in good and poor condition, respectively.

<sup>&</sup>lt;sup>5</sup> During this first performance period, Federal requirements for Non-Interstate NHS pavement condition and

performance targets are based on a single distress, IRI. However, Federal guidance outlined in a September 27, 2018 Memorandum on State DOT Targets for Non-Interstate NHS Pavement Measures allows for the use of full distress data when reporting Non-Interstate NHS performance targets. Given the availability of full distress data, Virginia has chosen this approach and reported performance targets for Non-Interstate NHS pavements based on all four distresses. This allows for consistency in assessing the condition and setting performance targets for both Interstate and Non-Interstate NHS pavements.

#### Background/History

Virginia's history of monitoring asset conditions and utilizing performance information to determine investment strategies based on available funding levels spans over 10 years for pavements and bridges.

VDOT maintains a comprehensive inventory of all pavement and bridges on the state-maintained network. This inventory, which includes location, maintenance responsibility, ownership, and current condition or inspection information, serves as the foundation for life cycle planning, performance forecasting, maintenance and rehabilitation needs estimation, as well as prioritization of work to maximize asset life given available funding. Condition information is also important for communicating with external stakeholders, including the general public.

VDOT's commitment to responsible Transportation Asset Management (TAM) practice is demonstrated through VDOT's annual condition data collection programs and its establishment and publication of network level pavement and bridge performance goals. VDOT's current condition measures and performance goals have been in place for many years and are fully integrated into VDOT's budgeting process and investment strategies.

The federal pavement and bridge performance measures apply to a limited portion of the network for which VDOT is responsible (less than 15% of all lane miles and 18% of the bridge inventory).

### Connection to Other Performance Based Planning Documents

VTrans, the state's long-range multimodal plan, provides the overarching vision and goals for transportation in the Commonwealth. The long-range plan provides a vision for Virginia's future transportation system and defines goals, objectives, and guiding principles to achieve the vision. It also provides direction to state and regional transportation agencies on strategies and policies to be incorporated into their plans and programs. The most recent approved long-range multimodal plan is VTrans2040.

Performance management, specifically as it relates to pavements and bridges, is included in the VTrans2040Vision, Goals & Objectives, and Guiding Principles as noted below:

- Guiding Principle 5: Ensure Transparency and Accountability, and Promote Performance
  Management Work openly with partners and engage stakeholders in project development
  and implementation, and establish performance targets that consider the needs of all
  communities, measure progress towards targets, and to adjust programs and policies as
  necessary to achieve the established targets.
- **Goal D:** Proactive System Management maintain the transportation system in good condition and leverage technology to optimize existing and new infrastructure.
  - Objectives:
    - Improve the condition of all bridges based on deck area.

Increase the lane miles of pavement in good or fair condition.

Virginia's federally required Transportation Asset Management Plan (TAMP) presents pavement and bridge inventory and conditions, along with the Commonwealth's performance objectives, measures, and associated risks as they relate to the federal requirements. Asset funding, investment strategies, forecasts, goals, and gaps are also included. The TAMP is specific to the NHS and provides the Commonwealth's Transportation Asset Management (TAM) processes and methodology to meet federal requirements. Pavement and bridge projects included in the STIP are consistent with Virginia's reported TAM processes and methodology.

The program of projects in the STIP are directly linked to the pavement and bridge objectives outlined in VTrans2040 and the TAMP through the strategies and actions that are priorities in Virginia.

#### Funding for Pavement and Bridge Projects

There are two key funding sources for pavement and bridge projects, the Highway Maintenance and Operations Fund (HMOF) and State of Good Repair (SGR) program funds. The pavement and bridge funding is used for differing projects from routine maintenance to reconstructive work. Funds are allocated to pavement and bridge projects based on an annual needs assessment process supported by a data-driven prioritization and selection process. The prioritization process is the same for the various funding sources; however, the <u>State of Good Repair</u> program funds are designated for deteriorated pavements and structurally deficient bridges.

The SGR program requires funds be distributed proportionality between VDOT and localities, based on assessed needs. More details, including the requirements for pavements and bridges, and the SGR prioritization process methodology, can be found at: <a href="State of Good Repair for Bridges">State of Good Repair for Bridges</a> and <a href="Local Assistance Funding Programs">Local Assistance Funding Programs</a>.

VDOT has developed a robust asset management program, placing maintenance of the transportation network at the forefront of VDOT's investment decisions. This commitment to responsible asset management practice is demonstrated through VDOT's annual collection of condition data on pavements and bridges along with its establishment and publication of network-level pavement and bridge performance targets. For more than a decade, VDOT has monitored pavement and bridge conditions using performance information (measures and targets) to determine investment strategies based on available funding levels.

In the annual needs assessment process, VDOT assesses 100% of the pavement network on Virginia's Interstate and Primary systems and approximately 20% of the Secondary system. In 2016, VDOT assessed 100% of the Secondary pavement network to create a condition baseline. The pavement condition data is compiled, analyzed and reviewed to report the optimized needs at a roadway system and district level. VDOT's pavement program selects resurfacing projects, in relation to needs, and optimizes the timing of projects through a data-driven pavement management system.

For bridges, VDOT follows national standards in performing safety inspections and determining general condition of the structures. Condition assessments are performed by certified safety inspection personnel. The inspection program requires a qualified inspector to complete a "handson" review of the structure or bridge during each inspection. By federal regulation, VDOT is required to conduct detailed inspections of NBI structures at intervals not to exceed 24 months. VDOT uses

BrM software to store bridge condition and inventory data for each structure and to program, schedule, and track bridge and structure inspections. The data collected during inspections allows VDOT to use a proactive approach to maintenance.

Preventive maintenance and timely intervention repairs are performed to avoid and slow deterioration that leads to greater rehabilitation or replacement cost. Virginia's bridge maintenance program is large and complex, so in order to direct its efforts more easily, performance targets have been developed.

VDOT uses a prioritization process when determining funding for the pavement and bridge programs and prioritizes work ranging from preventative maintenance to replacement. The prioritization processes take into account similar factors such as condition, cost effectiveness, maintenance history, and traffic volumes. While the systematic prioritization processes are a guide to assist in funding projects, districts direct the work performed as the local experts.

How do Pavement and Bridge Projects get selected for Inclusion in the STIP? As noted above, the funding to meet Virginia's pavement and bridge objectives and targets is allocated to projects in the CTB-approved SYIP and is consistent with VTrans2040. Each spring, the public is invited to comment on projects included in the draft SYIP prior to CTB approval. Since the SYIP is the foundation for the STIP, the program of projects in the STIP demonstrates support to achieve Virginia's pavement and bridge performance objectives and targets and is consistent with Virginia's TAMP.

# **Highway System Performance**

### **Performance Targets**

In accordance with the requirements of MAP-21 and the FAST Act, Virginia has established performance targets for three reliability performance measures to assess the Highway System Performance. All three measures are included in Virginia's Baseline Performance Period Report for 2018-2021 which was submitted to FHWA in October 2018. This report satisfies the federal requirement that State DOTs submit a Baseline Performance Period Report to FHWA by October 1<sup>st</sup> of the first year in a performance period and establishes baseline performance as of December 31, 2017.

Performance of the NHS is measured by the level of travel time reliability. The travel time reliability performance measures and performance targets for the 2018-2021 performance period are indicated in Table 1 below.

**Table 1: National Highway System Travel Time Reliability Performance Measures and Targets** 

NHS Travel Time Reliability Performance	CY 2018-2019	CY 2018-2021
	Two Year Target	Four Year Target
		82.0% 82.5%

The assessment for freight reliability is based on the truck travel time reliability index. The truck travel time reliability performance measure and performance targets for the 2018-2021 performance period are indicated in Table 2 below.

**Table 2: Freight Reliability Performance Measure and Targets** 

Truck Travel Time Reliability Performance	CY 2018-2019	CY 2018-2021
	Tour Voor Tours	F V T
	Two Year Target	Four Year Target

The Commonwealth Transportation Board (CTB) approves the performance measures and targets developed for Virginia's surface transportation network. Such targets, including those for Highway System Performance, are linked to the goals and objectives in Virginia's long-range transportation plan, or VTrans.

#### Connection to Other Performance Based Planning Documents

VTrans, the state's long-range multimodal plan, provides the overarching vision and goals for transportation in the Commonwealth. The long-range plan provides a vision for Virginia's future transportation system and defines goals, objectives, and guiding principles to achieve the vision. It also provides direction to state and regional transportation agencies on strategies and policies to be incorporated into their plans and programs. The most recent approved long range multimodal plan is VTrans2040.

<sup>&</sup>lt;sup>6</sup> During this first performance period, States are not required to establish 2-year targets for the Non-Interstate NHS reliability measure.

VTrans2040 identifies the most critical transportation needs in Virginia to ensure the overarching transportation goals in the long-range plan are achieved. The screening process was informed by a data-driven approach that considers highway system performance measures and targets in addition to other performance indicators.

Performance management, as it relates to the reliability of the NHS and freight, is included in the VTrans2040Vision, Goals & Objectives, and Guiding Principles as noted below:

- Guiding Principle 4: Consider Operational Improvements and Demand Management First.
   Maximize capacity of the transportation network through increased use of technology and operational improvements as well as managing demand for the system before investing in major capacity expansions.
- Goal A Economic Competitiveness and Prosperity: invest in a transportation system that supports a robust, diverse, and competitive economy.
  - Objectives:
    - Reduce the amount of travel that takes place in severe congestion.
    - Reduce the number and severity of freight bottlenecks.
    - Improve reliability on key corridors for all modes.
- Goal B Accessible and Connected Places: increase the opportunities for people and businesses to efficiently access jobs, services, activity centers, and distribution hubs.
  - Objectives:
    - Reduce average peak-period travel times in Transportation areas.
    - Reduce average daily trip lengths in Transportation areas.
    - Increase the accessibility to jobs via transit, walking and driving in Transportation areas.

Additionally, the Virginia Freight Element (VFE), a component of VTrans2040, discusses freight system trends, needs, and issues. The VFE also includes freight policies, strategies, and performance measures that guide Virginia's freight-related investment decisions.

Projects included in the STIP are directly linked to the Highway System Performance objectives outlined in VTrans2040 and associated needs analysis, and the VFE through the strategies and actions that are priorities in Virginia.

## Funding for Highway System Performance Projects

SMART SCALE, Virginia's data-driven prioritization process for funding transportation projects, considers the potential of a project to improve reliability. In order to be considered for SMART SCALE, a project must first meet a need identified in VTrans2040, thus strengthening the connection between the planning and programming processes. Congestion mitigation, safety, accessibility, economic development, environment, and land use are the factors used to score SMART SCALE projects. Freight considerations are included in the economic development factor.

The FAST Act established a National Highway Freight Program, including a freight-specific funding program to highlight the focus on freight transportation needs. Projects eligible for National Highway Freight Program (NHFP) funding must contribute to the efficient movement of freight on the National Highway Freight Network (NHFN) and be included in the VFE. VDOT uses NHFP funding to construct freight beneficial projects identified through the SMART SCALE process.

SMART SCALE screening and scoring results, along with public feedback and CTB guidance, are used to develop the SYIP.

Other projects selected for funding are subject to program specific prioritization processes approved by the CTB. All funding (federal, state, and other sources) for transportation projects are allocated to projects in the CTB approved SYIP.

How do Highway System Performance Projects Get Selected for Inclusion in the STIP? As noted above, the funding for all transportation projects, including funding for projects to meet Virginia's NHS system performance and freight movement targets is allocated to projects in the CTB approved SYIP, and is consistent with VTrans2040 and the VFE. Since the SYIP is the foundation of the STIP, the program of projects in the STIP demonstrates support to achieve Virginia's NHS and Freight Reliability performance objectives and targets.