

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.

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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").

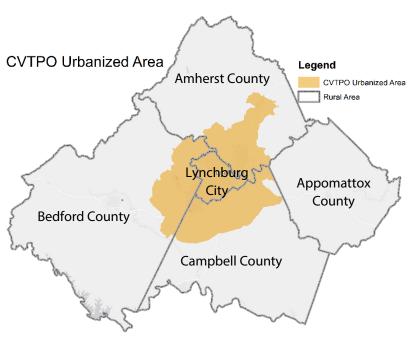
Purpose and Powers

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, socio-economic 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 Transportation

Town of Bedford*

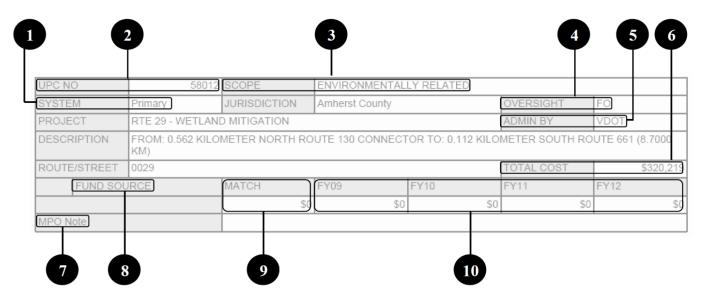
In keeping with the CVTPO's efforts to encourage public participation in the planning process, the CVTPO held a public hearing on June 18, 2020 to receive input, suggestions and comments pertaining to the CVTIP FY2021-2024.

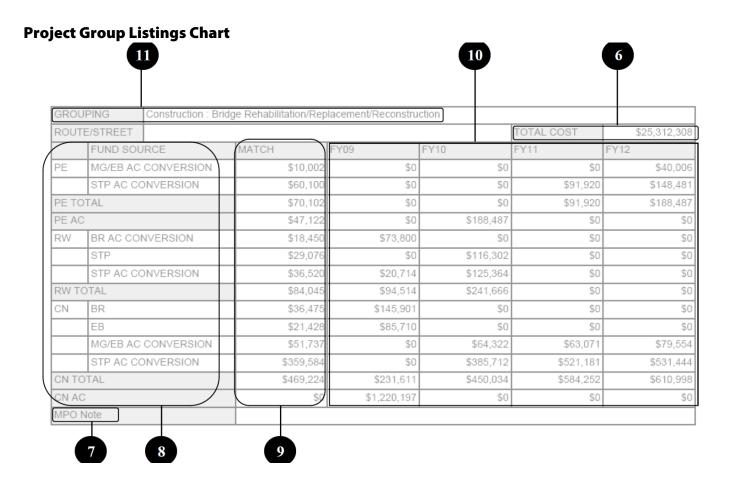
^{*} Rural member ** Non-voting member

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



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

RTE 659 - RECONSTRUCTION AND BRIDGE OVER RUTLEDGE CREEK

Glossary of Terms Used in Project Charts

OBJECT "	TERM	DEFINITION								
1	System	Indicates whi	ich system program or m	node of transpo	ortation the project falls					
	System	Indicates which system, program, or mode of transportation the project falls within: Interstate, Primary, Secondary, Urban, Rail, Transportation								
		Alternatives, or Miscellaneous								
2	UPC No.	· · · · · · · · · · · · · · · · · · ·	ject Code. Number assigr	ned to each pro	oject at its conception					
			with the project until com		•					
3	Scope	This is a brief statement regarding the nature of the project								
4	Federal Oversight	FO: Indicates Federal Oversight in the project construction contracting and								
	Indicator (FO &	management.								
	NFO)	NFO: Indicates No Federal Oversight in the construction contracting and								
		_	t issues and does not affe							
			ansportation projects. All							
			t include the required enversight in the							
			t phase of a project.	ie construction	r contracting and					
5	Admin By		hat is administrating the p	project or a ph	ase of the project.					
6	Project Cost		on of all shares to the pro		. ,					
7	MPO/TPO Note		e where the TPO can inser							
8	Fund Source		ogram which is the prima							
		project. FHW	A funding sources are des	scribed below:						
		AC Advance Construction M Urban Funds								
		2.5	Funds	MC/FD	M: : C 1 0					
		AC Conversion	Breakdown of the allocated amount of the	MG/EB	Minimum Guarantee & Equity Bonus Funds					
		Conversion	advance construction		Equity bolius i ulius					
			(AC)							
		BR	Bridge Replacement Funds	NHS	National Highway System Funds					
		BR-OS	Bridge off -system Funds	PPTA	Public Private					
			for Secondary Road Projects		Transportation Act of 1995					
		CM	Congestion Mitigation	RRP	Railway-Highway					
			and Air Quality Funds		Crossing Funds					
		EB	Equity Bonds	RSTP	Regional Surface					
		ENI/TA	T		Transportation Program					
		EN/TA	Transportation Enhancement/	S	State Construction Funds Only					
			Alternatives Funds		1 and only					
		HES	Hazard Elimination Funds	STP	Surface Transportation Program Funds					
		HSIP	Highway Safety	STP/RR	Surface Transportation					
			Improvement Program		Program and Railroad					
		НМО	Funds Highway Maintenance &	STP	Funds Surface Transportation					
		HIVIO	Operating Funds	Statewide	Program Funds					
		HPD	High Priority Funds	TDM	Transportation Demand					
		Management								
		IM	Interstate Maintenance Funds	VTA	Virginia Transportation Act					
9	Match		fund sources require a ma							
			overnment reimburses 80							
			ements, please refer to th	e <mark>Funding Sou</mark>	irces and Funding Ratios					
		section of thi	s document.							

10	Current and Future	The budget for the indicated phase of work provided by the indicated				
	Obligation	funding source.				
11	Grouping	This indicates the group in which the project falls. For more information				
		about the groups, please refer to the TIP Format section of this document.				
12	Estimate	The cost estimate reflects the current estimate for the listed phase of the				
		project.				

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 ABBREVIATIONS							
CFR	Code of Federal Regulations	PE	Preliminary Engineering				
CE	Categorical Exclusion	RTE	Route				
CN	Construction	RW	Right of Way				
FAST ACT	Fixing America's Surface Transportation	SOP	Standard Operating Procedure				
	Act						
FO, NFO	Federal Oversight, No Federal Oversight	TDM	Transportation Demand Management				
FY	Funding Year / Fiscal Year	TIP	Transportation Improvement Program				
HWY	Highway	TO	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 (BR/BROS)	Provides funding for bridge improvements both on and off the National Highway System (NHS)
Congestion Mitigation and Air Quality Improvement Program (CMAQ)	Provides flexible funding for congestion reduction and air 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 (HSIP)	Funds projects to reduce traffic fatalities and serious injuries on public roads; set aside for Railway Highway Crossings Program
National Highway Freight Program (NHFP)	Provides funding to improve the movement of freight on the National Highway Freight Network (NHFN)
National Highway System/National Highway Performance Program (NHS/NHPP)	Funds projects to construct new facilities on or improve the condition and performance of the National Highway 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 Transportation Block Grant Program (STP/STBG)	Provides flexible funding for wide range of eligible projects and programs to address state and local transportation needs
Transportation Alternatives Program/Transportation Alternative Set- Aside (TAP/TA Set-Aside)	Provided for bicycle and pedestrian facilities through the Surface Transportation Block Grant. A set aside from each state's allocation of STBG funds must be used for 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 (5309)	Discretionary program for funding major transit capital projects such as BRT, light rail, and streetcars
Enhanced Mobility of Seniors and Individuals with Disabilities (5310)	Program to assist local transit agencies, governments, and nonprofit groups in meeting needs of elderly and persons 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 (5337)	Provide capital assistance for maintenance, replacement, and rehabilitation of existing fixed guideway (e.g., rail lines, bus lanes) facilities to maintain state of good repair
Bus and Bus Facilities Formula Program (5339a)	Provides funding to transit agencies and states to replace, rehabilitate and purchase buses and related equipment and to construct bus-related facilities
Bus and Bus Facilities Discretionary Grants (5339b)	Discretionary component of the program to fund the 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	2022	FFY:	2023	FFY	2024	ТО	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	СТ	ITTF FY20 Micro Tr	ansit	ADMIN BY			
DESCR	RIPTION	FROM: Various TO: Various					
ROUTE	STREET	9999				TOTAL COST	\$500,000
	FUND SOURCE MATCH			FY21	FY22	FY23	FY24
PE AC Federal - AC OTHER		\$0	\$500,000	\$0	\$0	\$0	

Primary Projects

MPO	Lynchburg							
UPC NO	64773	SCOPE	Safety	Safety				
SYSTEM	Primary	JURISDICTION	Lynchburg	Lynchburg OVERSIGHT NFO				
PROJECT RTE 29/460 - ACCESS MANAGEMENT					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 r		P based on STIP AD	DJ # FFY20-11 STIP	processed 4/22/20.	Project is		
ROUTE/STREET	RICHMOND HIGHV	VAY (0460)			TOTAL COST	\$21,220,159		
FUND SOU	IRCE	MATCH	FY21	FY22	FY23	FY24		
•		\$0	\$0	\$0	\$0	\$0		

Secondary Projects

UPC N	0	110390	SCOPE				
SYSTE	:M	Secondary	JURISDICTION	Amherst County		OVERSIGHT	NFO
PROJE	CT	#HB2.FY17 RTE 68	32 - RECONSTRUCT	TION GARVEE DEB	T SERVICE	ADMIN BY	VDOT
DESCRIPTION							
PROGE	RAM NOTE	GARVEE Debt Serv	vice Interest FFY22,	\$285,095 GARVEE I	Debt Service Interes	ot Service Interest FF t FFY23, \$266,016 G Total GARVEE Deb	SARVEE Debt
ROUTE	E/STREET	0682				TOTAL COST	\$2,972,574
	FUND SOU	IRCE	MATCH	FY21	FY22	FY23	FY24
PE	Federal - A	C CONVERSION	\$0	\$0	\$303,254	\$285,095	\$266,016
	Federal - STP/STBG		\$0	\$309,640	\$0	\$0	\$0
PE TO	TAL		\$0	\$309,640	\$303,254	\$285,095	\$266,016
PE AC	Federal - A	С	\$0	\$2,283,046	\$0	\$0	\$0

Urban Projects

UPC N	0	110391	SCOPE				
SYSTE	M	Urban	JURISDICTION	Lynchburg		OVERSIGHT	NFO
PROJE	СТ	#HB2.FY17 ODDFE	ELL'S RD SEG B2 R	ECON GARVEE DE	BT SERVICE	ADMIN BY	VDOT
DESCRIPTION							
PROG	RAM NOTE	GARVEE Debt Service Interest FF	vice Interest FFY22, Y24, \$1,897,402 GAI ponding CN UPC 10	\$497,319 GARVEE RVEE Debt Service	573,808 GARVEE Doubt Service Interest Interest FFY25-FFY3 ed in the Lynchburg	t FFY23, \$456,150 G 33. Total GARVEE D	SARVEE Debt lebt Service Interest
ROUTE	E/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	Added Capacity		
SYSTE	:M	Urban	JURISDICTION	Lynchburg		OVERSIGHT	NFO
PROJE	CT	UR-6056 - D/B WID	EN FROM 2 TO 4 L	ANES (GREENVIEV	V DRIVE)	ADMIN BY	VDOT
DESCR	RIPTION	FROM: 0.010 MI NO MI)	OM: 0.010 MI NORTH OF SC 1541 (HERMITAGE RD) TO: 0.215 MI SOUTH OF UR-6066 (LEESVILLE RD) (0.				
ROUTE	STREET	GREENVIEW DRIV	'E (6056)			TOTAL COST	\$14,285,241
	FUND SOL	JRCE	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	CN AC			\$5,330,926	\$0	\$0	\$0

UPC N	0	106537	SCOPE	Reconstruction w/ A	Added Capacity		
SYSTE	М	Urban	JURISDICTION	Lynchburg		OVERSIGHT	NFO
PROJE	CT	UR-6056 - D/B WID	EN FR 2-4 LNS (GR	EENVIEW DR) DEB	BT SERVICE	ADMIN BY	VDOT
DESCF	RIPTION FROM: SC-1541 (HERMITAGE RD) TO: 0.220Mi. S. UR-6066 (LEESVILLE RD) (0.4500 MI)						
PROGRAM NOTE Includes \$1,371,074 GARVEE Debt Service Interest Prev, \$241,639 GARVEE Debt Service Interest FFY21, \$GARVEE Debt Service Interest FFY22, \$192,688 GARVEE Debt Service Interest FFY23, \$166,844 GARVEE Service Interest FFY24, \$454,548 GARVEE Debt Service Interest FFY25-FFY31. Total GARVEE Debt Service \$2,644,567. Corresponding CN UPC 106320.				ARVEE Debt			
ROUTE	STREET	GREENVIEW DRIV	Œ (6056)			TOTAL COST	\$2,644,567
	FUND SOU	RCE	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	ΓAL		\$0	\$241,639	\$217,774	\$192,688	\$166,844
PE AC	Federal - A	C	\$0	\$1,031,853	\$0	\$0	\$0

UPC NO	105515	SCOPE	New Construction F	Roadway			
SYSTEM	Urban	JURISDICTION	Lynchburg OVERSIGHT FO				
PROJECT	RTE 29/460 - D/B II	NTERCHANGE & EX	(TENSION (ODD FELLOWS ROAD) ADMIN BY VDOT				
DESCRIPTION	FROM: 0.48 MI. W.	OF ODD FELLOWS	ROAD TO: 0.54 MI	. E. OF ODD FELLO	WS ROAD (1.0220 I	MI)	
PROGRAM NOTE	All funding obligated	d based on current a	llocations/estimate.	Linked with UPC 106	5533		
ROUTE/STREET	RICHMOND HIGH	VAY (6029)			TOTAL COST	\$40,982,810	
FUND SOL	IRCE	MATCH	FY21 FY22 FY23 FY24			FY24	
		\$0	\$0	\$0	\$0	\$0	

UPC NO		112842	SCOPE	Safety				
SYSTEM	Λ	Urban	JURISDICTION	Lynchburg OVERSIGHT NFO				
PROJEC	T	ADAPTIVE SIGNAL	CONTROL - RIVER	RMONT - FIBER INS	TALLATION	ADMIN BY	Locally	
DESCRI	PTION	FROM: UR 6012 TO	D: UR 6020 (1.0200	MI)				
PROGRA	AM NOTE	All funding obligated	d based on current a	llocations/estimate.				
ROUTE/S	STREET	RIVERMOUNT AVE	ENUE (0501)			TOTAL COST	\$105,000	
F	FUND SOU	RCE	MATCH	FY21 FY22 FY23 FY24				
			\$0	\$0	\$0	\$0	\$0	

MPO		Lynchburg						
UPC N	0	113116	SCOPE	Reconstruction w/ A	econstruction w/ Added Capacity			
SYSTE	M	Urban	JURISDICTION	Lynchburg		OVERSIGHT	NFO	
PROJE	CT	#SMART20 RTE 22	21/501 - INTERSECT	TION IMPROVEMEN	IT (SPLIT PAIR)	ADMIN BY	Locally	
DESCF	RIPTION	FROM: BREEZEWO	OM: BREEZEWOOD DRIVE TO: RTE 501 (DESMOND T. DOSS MEM. EXP.) (_)					
PROGRAM NOTE Roll-over project added to the FFY21 STIP based on FHWA approval of ST consistent with the metropolitan TIP.				approval of STIP An	nd #FFY20-07 on 02	/12/20. Project is		
ROUTE	STREET	ROUTE 501 (LYNC	HBURG EXPRESSWAY) (0221)			TOTAL COST	\$38,538,037	
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24	
RW	Other		\$763,909	\$763,909	\$0	\$0	\$0	
RW AC			\$0	\$2,357,062	\$0	\$0	\$0	
	Federal - AC OTHER			\$7,295,410	\$0	\$0	\$0	
RW AC			\$0	\$9,652,472	\$0	\$0	\$0	

UPC NO	0	106533	SCOPE	New Construction F	Roadway		
SYSTE	SYSTEM Urban JURISDICTION Lynchburg		OVERSIGHT	FO			
PROJECT RTE 29/460 - INTO			HG & EXT (ODD FE	LLOWS RD) DEBT (SERVICE	ADMIN BY	VDOT
DESCR	RIPTION	FROM: VARIOUS TO: Various					
ROUTE	STREET	VARIOUS (6029)				TOTAL COST	\$47,034,618
	FUND SOL	IRCE	MATCH	FY21	FY22	FY23	FY24
PE	PE Federal - NHS/NHPP		\$0	\$3,292,986	\$0	\$0	\$0
PE AC Federal - AC		\$0	\$30,549,818	\$0	\$0	\$0	

Project Groupings

GROU	GROUPING Construction : Bridge Rehabilitation/Replacement/Reconstruction						
ROUTE	E/STREET					TOTAL COST	\$47,845,437
	FUND SOU	URCE MATCH FY21 FY22 FY23				FY23	FY24
CN	Federal - A	al - AC CONVERSION \$1,708,141 \$1,062,256 \$2,563,644 \$3,206,665				\$0	

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

GROU	PING	Construction : Safe	ty/ITS/Operational In	nprovements			
ROUT	E/STREET				TOTAL COST	\$101,148,668	
	FUND SOURCE		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	TAL		\$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 TO	OTAL		\$20,524	(\$10,688)	\$65,166	\$143,601	\$0
CN	Federal - H	SIP	\$103,836	\$0	\$0	\$934,523	\$0
	Federal - STP/STBG		\$716,240	\$2,864,959	\$0	\$0	\$0
CN TC	CN TOTAL		\$820,076	\$2,864,959	\$0	\$934,523	\$0

GROU	PING	Construction : Trans	sportation Enhancem	nent/Byway/Non-Trad	ditional			
ROUTE	E/STREET					TOTAL COST		\$2,000,000
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24	
\$0 \$0 \$0						\$0		

MPO		Lynchburg	_ynchburg					
GROUF	GROUPING Maintenance : Preventive Maintenance and System Preservation							
PROGR	RAM NOTE	Funding identified to be obligated districtwide as projects are identified.						
ROUTE	STREET					TOTAL COST		\$60,798,374
	FUND SOU	RCE	MATCH	FY21	FY22	FY23	FY24	
CN	CN Federal - STP/STBG \$0 \$19,021,219 \$9,272,559 \$16,033,673 \$16,470					\$16,470,923		
MPO N	MPO Note FFY21-09 STIP MOD - move \$6,851,559 (STP/STBG) from FFY22 to FFY21							

GROU	PING	Maintenance : Prev	Maintenance : Preventive Maintenance for Bridges						
PROGI	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					FY24				
CN Federal - STP/STBG			\$0	\$2,690,090	\$4,917,611	\$6,249,068	\$3,758,404		

GROU	PING	Maintenance : Traffic and Safety Operations								
PROG	RAM NOTE	Funding identified to be obligated districtwide as projects are identified.								
ROUTI	E/STREET					TOTAL COST	\$5,786,713			
	FUND SOURCE MATCH FY21 FY22 FY23 FY24									
CN	Federal - S	TP/STBG	\$0	\$1,374,503	\$2,213,353					

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 VIE		PORTATION PLA	NNING ORGAN	IZATION	- 1	- 1	
STIP ID:	GLTC001	Title: Operati	ng Assistance		Recipient: Gre	eater Lynchburg Tra	nsit Co.
FTA 5307		2,037	2,132	2,212	2,297	FTA 5307	8,678
State		2,044	2,095	2,125	2,156	State	8,420
Local		3,041	3,268	3,469	3,680	Local	13,458
Revenues		1,367	1,389	1,411	1,438	Revenues	5,605
Year Total:		8,489	8,884	9,217	9,571	Total Funds:	36,161
Description:		•		•			
	•						
STIP ID:	GLTC006	Title: Replace	ment Rolling Sto	ck	Recipient: Gre	eater Lynchburg Tra	nsit Co.
FTA 5339		714	8,207	2,059	2,594	FTA 5339	13,574
State		999	1,641	412	519	State	3,571
Local		71	410	103	130	Local	714
Year Total:		1,785	10,258	2,574	3,243	Total Funds:	17,860
Description:					•		
	•						
STIP ID:	GLTC010	Title: Expansi	on Rolling Stock		Recipient: Gre	eater Lynchburg Tra	nsit Co.
FTA 5339		-	990	-	-	FTA 5339	990
State		-	198	-	-	State	198
Local		-	49	-	-	Local	49
Year Total:		-	1,237	-	-	Total Funds:	1,237
Description:				•	<u> </u>	<u> </u>	
STIP ID:	GLTC012	Title: Spare P	arts		Recipient: Gre	eater Lynchburg Tra	nsit Co.
FTA 5339		120	-	-	-	FTA 5339	120
State		168	-	-	-	State	168
Local		12	-	-	-	Local	12
Year Total:		300	-	-	-	Total Funds:	300
Description:			l	I	ı	I I	

STIP ID:	Title: Transfer Location Improvements	Recipient: Greater Lynchburg Transit Co.
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FTA 5339		-	118	-	-	FTA 5339	118
State		-	24	-	-	State	24
Local		-	6	-	-	Local	6
Year Total:		-	148	-	-	Total Funds:	148
Description:		1		1			l
	1						
STIP ID:	GLTC018	Title: Purchase	Passenger Shelt	ers	Recipient: Gr	eater Lynchburg Tr	ansit Co.
FTA 5339		-	133	102	-	FTA 5339	235
State		-	27	20	-	State	47
Local		-	7	5	-	Local	12
Year Total:		-	167	127	-	Total Funds:	294
Description:							
STIP ID:	GLTC020	Title: Vehicle Lo	cator System		Recipient: Gr	eater Lynchburg Tr	
FTA 5339		202	-	-	-	FTA 5339	202
State		282	-	-	-	State	282
Local		20	_	-	-	Local	20
Year Total:		504	-	-	-	Total Funds:	504
Description:							
							-
STIP ID:	GLTC021	Title: Purchase	Support Vehicle	_	-	eater Lynchburg Tr	
FTA 5339		-	-	312	144	FTA 5339	456
State		-	-	62	29	State	91
Local		-	-	16	7	Local	23
Year Total:		-	-	390	180	Total Funds:	570
Description:							
CTID ID:	CVACIO	Title Deneture :	+ \		Daniminut Co		· · · C · · · · · · · · · · · · · · · ·
STIP ID:	CVACL01	Title: Paratransi	t venicies		Living	ntral VA Alliance fo	or Community
FTA5310		80	295	-	-	FTA 5310	375
State		-	-	-	-	State	-
Local		20	-	-	-	Local	20
Year Total:		100	295	-	-	Total Funds:	395
Description:							
STIP ID:	CVACL02	Title: Operating	Assistance		Recipient: Ce Living	ntral VA Alliance fo	or Community
FTA5310		41	-	-	-	FTA 5310	41
State		33	-	-	-	State	33
Local		8	-	-	-	Local	8
Year Total:		82	-	-	-	Total Funds:	82
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 Funds:	55
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 Tier II PTASP 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	1,400,000	11,500,000	1,000,000		
Taxiway "B" Rehabilitation North GA Development Area, Phase III (Final Apron Construction)				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	m UPC Jurisdiction /	Name / Description	Street(Route)	Estimate
Miscellaneous	T19026	Lynchburg District-wide	0000		\$0
		BRIDGE REHABILITATION/REPLA	CEMENT		
Primary	104600	Campbell County	WARDS ROAD (00)	29)	\$17,161,661
		RTE 29 NBL - BRIDGE & APPR. O	VER NS RR FED. ID. NO	D. (04144)	
		FROM: 0.006 MILE NORTH OF RT	E 679 TO: 0.513 MILES	NORTH OF RTE 679 (0.5070 MI)	
Secondary	97711	Bedford County	0621		\$3,160,819
		RTE. 621 OVER IVY CREEK (STR.	ID 02707) - BRIDGE RE	PLACEMENT	
		FROM: 1.1 Mi. East of Rte. 662 TO	: 0.5 Mi. West of Rte. 660	0 (0.2500 MI)	
Secondary	51916	Bedford County	GOODE ROAD (06	68)	\$4,819,174
		#SGR Rt 668 Over NSRR(STR 027	85) Replace Brg & Impro	ve Appro	
		FROM: 0.33 mi North of Rt. 702 (Pr	ophet Rd) TO: 0.37 mi S	outh of Rt. 840 (Pilgrim Rd) (0.1990 MI)	
Urban	104599	Lynchburg	RICHMOND HIGHV	VAY (0029)	\$15,861,218
		RTE 29 SBL & NBL - BR & APPR C	VER NSRR FED ID 205	79 & 20580	
		FROM: 0.320 MILES WEST OF NS	RAILROAD TO: 0.300 M	MILES EAST OF NS RAILROAD (0.6200 MI)	
Urban	111279	Lynchburg	RICHMOND HIGHV	VAY (0029)	\$6,842,565
		#SGR - RTE 29 SBL - BRIDGE & A	PPR OVER NSRR (FED	ID 20579)	
		FROM: 0.118 MILES WEST OF NS	RAILROAD TO: 0.096 N	MILES EAST OF NS RAILROAD (0.2140 MI)	
Construction : Brid	lge Rehabil	ation/Replacement/Reconstruction	Total		\$47,845,437

Construction: Rail

	Syst	em UPC Jurisd	liction / Name / Description	Street(Route)	Estimate
Miscellaneous	T23508	Lynchburg District-wide	0000		\$0
		CN RAIL			
Miscellaneous	112018	Statewide	HIGHWAY-RAIL S	AFETY (0000)	\$700,000
		Highway-Rail Safety Invento	ry Section 130 PE Only		
		FROM: Statewide TO: State	wide		
Miscellaneous	112213	3 Statewide HIGHWAY RAIL SAFETY (0000)		\$300,000	
		Highway-Rail Section 130 Pr	re Scoping PE Only		
		FROM: Statewide TO: State	wide		
Miscellaneous	112497	Statewide	VARIOUS (0000)		\$500,000
		ENVIRONMENTAL EQ429 F	FORM PROCESSING CHARGI	ES	
		FROM: FOR HIGHWAY/RAI	L SAFETY PROJECTS WITHO	OUT PE NUMBERS TO: ASSIGNED	
Urban	115031	Lynchburg	\$450,000		
		CHAPEL LANE - INSTALL F	LASHING LIGHTS & GATES		
		FROM: OLD FOREST RD T	O: 0.220 MILE NORTH OF OLI	D FOREST ROAD (0.2200 MI)	
Construction : Rail	Total				\$1,950,000

Construction: Safety/ITS/Operational Improvements

	Syst	em UPC Jurisdicti	on / Name / Description	Street(Route)	Estimate
Enhancement	109730	Lynchburg	STONERIDGE ST	REET (EN16)	\$112,422
		SRTS - DEARINGTON ELEME	NTARY SCHOOL (TAP GR	ANT)	
		FROM: CAROLINE STREET TO	O: KIRBY STREET (0.0860	MI)	
Interstate	107802	Statewide	9999		\$918,907
		Incident Management Emergen	cy Evacuation and Detour F	Plans	
		FROM: Various TO: Various			
Interstate	110551	Statewide	9999		\$362,560
		Traffic Video Expansion - State	wide		
		FROM: Various TO: Various			
Interstate	110912	Statewide	9999		\$813,019
		Statewide Truck Parking Manag	gement System - Phase 1		
		FROM: Various TO: Various			
Interstate	111613	Statewide	9999		\$1,807,000
		Statewide Truck Parking Manag	gement System - Phase 2		
		FROM: Various TO: Various			
Interstate	111892	Statewide	9999		\$0
		ATMS - Phase 1, 2, 3, 4			
		FROM: Various TO: Various			
Interstate	114400	Statewide	9999		\$300,000
		Drone Technology Project			
		FROM: Various TO: Various			
Interstate	115854	Statewide	9999		\$1,250,000
		ITTF FY20 Arterial Operations F	Program Dashboard		
		FROM: n/a TO: n/a	·		
Interstate	115855	Statewide	9999		\$4,700,000
		ITTF FY20 High Speed Commu	ınications		
		FROM: Various TO: Various			
Miscellaneous	T19022	Lynchburg District-wide	0000		\$0
		CN: SAFETY/ITS/OPERATION	AL/IMPROVEMENTS		
Miscellaneous	105481	Statewide	0000		\$1,400,000
		Impement iPeMS (Iteris Perform	nance Measrement System)	
		FROM: various TO: various			
Miscellaneous	109817	Lynchburg District-wide	VARIOUS (9999)		\$515,576
		SAFETY PRESCOPING - LYNG	CHBURG		
		FROM: VARIOUS TO: VARIOU	IS		
Miscellaneous	114193	Statewide	VARIOUS (9999)		\$0
		PEDESTRIAN IMPROVEMENT	S AT PRIORITY CORRIDO	OR STATEWIDE	
		FROM: VARIOUS TO: VARIOU	IS		
Primary	114093	Amherst County	NORTH AMHERS	ST HIGHWAY (0029)	\$2,879,985
		RTE 29 - SHOULDER WIDENII	NG AND RUMBLE STRIPS	(AMHERST)	
		FROM: 0.19 MILE NORTH US- (8.7700 MI)	29 NB ON RAMP FROM BU	US US-29 S. INT. TO: US-29 NB A	AMHERST NELSON LINE
Primary	114094	Campbell County	US-29 WARDS R	OAD (0029)	\$1,338,194
		RTE 29 - SHOULDER WIDENII	NG AND RUMBLE STRIPS	(CAMPBELL)	
		FROM: RTE 24 TO: RTE 738 (4	4.5800 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	Bedford County FOREST ROAD (0221)	\$8,137,995
		#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)	
Primary	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)	LAKE RD) (1.4210
Primary	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	113933	Lynchburg District-wide VARIOUS (9999)	\$749,968
		DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION	
		FROM: VARIOUS TO: VARIOUS	
Secondary	109550	Amherst County WOODY'S LAKE ROAD (0682)	\$7,855,088
		#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)	
Secondary	5542	Campbell County LYNBROOK ROAD (0622)	\$11,520,435
		#SMART18 #SGR - RTE 622 - RECONSTRUCTION	
		FROM: 0.004 MILE EAST OF ROUTE 683 TO: 1.231 MILE EAST OF ROUTE 683 (1.2270 MI)	
Secondary	114091	Campbell County VARIOUS (1520)	\$633,550
		RTES 1520 & 9070 - CONSTRUCT SIDEWALK	
		FROM: VARIOUS TO: VARIOUS	
Urban	114064	Lynchburg GRAVES MILL ROAD (6009)	\$462,500
		GRAVES MILL ROAD - INSTALL ADAPTIVE SIGNAL CONTROLS	
		FROM: RTE 6073 (MCCONVILLE RD) TO: WCL LYNCHBURG (1.4900 MI)	
Urban	114062	Lynchburg KEMPER STREET (0501)	\$250,845
		BUS 501 - CONSTRUCT SIDEWALK (KEMPER STREET)	
		FROM: 0.086 MILE SOUTH OF BUS 29 TO: 0.346 MILE SOUTH OF BUS 29 (0.2550 MI)	

	System	UP	C Jurisdiction / Name	Description	Street(Route)	Estimate
Urban	108165 Ly	nchburg	LI	BERTY MOUNT	AIN DRIVE (0906)	\$607,096
	RI	TE F906 - CONST	RUCT SIDEWALK & II	NSTALL ROADV	WAY LIGHTING	
	FF	ROM: 0.021 MILE	EAST OF RTE F907	TO: 0.176 MILE	EAST OF RTE F907 (0.1550	MI)
Urban	8759 Ly	nchburg	М	IDTOWN CONN	I. (U000)	\$26,180,934
	MI	IDTOWN CONNE	CTOR - NEW 2-LANE,	W/ FLUSH MED	D., C&G,S/W.	
	FF	ROM: INT. RTE. 2	9 BUS. TO: INT. MEM	ORIAL AVE. (1.0	0200 MI)	
Urban	109554 Ly	nchburg	0	DDFELLOWS R	OAD (9999)	\$16,023,177
	#⊦	HB2.FY17 ODDFE				
	FF	ROM: 0.10 WEST	OF ROUTE 128 (MAY	FLOWER DR.) 1	TO: BUS. 29 (LYNCHBURG	EXPRESSWAY) (0.4070 MI)
Urban	114065 Ly	nchburg	0	LD FOREST RO	OAD (6044)	\$844,779
	UF	R 6044 - PEDEST	RIAN IMPROVEMENT	S (OLD FORES	T ROAD)	
	FF	ROM: UR 6081 (F	OREST BROOK RD) T	O: RTE 221 (LA	KESIDE DR) (2.2680 MI)	
Urban	109702 Ly	nchburg	R	VERMONT AVE	ENUE (0501)	\$416,864
	ΑL	DAPTIVE SIGNAL	CONTROL - RIVERM	ONT AVENUE		
	FF	ROM: UR 6012 TO): UR 6020 (1.0200 MI))		
Urban	115489 Ly	nchburg	R	VERMONT AVE	ENUE (9999)	\$485,000
	#8	SMART20 RIVERN	MONT AND BEDFORD	AVE INTERSE	CTION IMPROVEMENT	
	FF	ROM: 0.047 MILE	SOUTH OF BEDFORD	AVENUE TO: (0.047 MILE NORTH OF BED	FORD AVENUE (0.0950 MI)
Construction :	Safety/ITS/Operat	ional Improvemen	ts Total			\$101.148.668

Construction: Transportation Enhancement/Byway/Non-Traditional

System	UPC Jurisdiction / Name / Description	on Street(Route)	Estimate
81757 Lynchburg	NA (EN06)		\$0
CITY OF L	YNCHBURG - RIVERSIDE PARK MASTE	R PLAN	
FROM: NA	TO: NA		
111723 Lynchburg	BLACK WA	TER CREEK TRAIL (EN17)	\$2,000,000
LANGHOR	NE ROAD TRAIL EXTENSION		
FROM: ED	PAGE PARKING LOT TO: LINKHORNE I	MIDDLE SCHOOL (0.5000 MI)	
17595 Amherst	NA (EN97)		\$0
TOWN OF	AMHERST - DEPOT RELOCATION & RE	NOVATION	
FROM: NA	TO: NA		
T19016 Lynchburg	District-wide 0000		\$0
CN: TRAN	SPORTATION ENHANCEMENT/BYWAY/	OTHER NON-TRADITIONAL	
sportation Enhanceme	ent/Bvwav/Non-Traditional Total		\$2.000.000
	81757 Lynchburg CITY OF L FROM: NA 111723 Lynchburg LANGHOR FROM: ED 17595 Amherst TOWN OF FROM: NA T19016 Lynchburg CN: TRAN	81757 Lynchburg NA (EN06) CITY OF LYNCHBURG - RIVERSIDE PARK MASTE FROM: NA TO: NA 111723 Lynchburg BLACK WAT LANGHORNE ROAD TRAIL EXTENSION FROM: ED PAGE PARKING LOT TO: LINKHORNE I 17595 Amherst NA (EN97) TOWN OF AMHERST - DEPOT RELOCATION & RE FROM: NA TO: NA T19016 Lynchburg District-wide 0000	81757 Lynchburg NA (EN06) CITY OF LYNCHBURG - RIVERSIDE PARK MASTER PLAN FROM: NA TO: NA 111723 Lynchburg BLACK WATER CREEK TRAIL (EN17) LANGHORNE ROAD TRAIL EXTENSION FROM: ED PAGE PARKING LOT TO: LINKHORNE MIDDLE SCHOOL (0.5000 MI) 17595 Amherst NA (EN97) TOWN OF AMHERST - DEPOT RELOCATION & RENOVATION FROM: NA TO: NA T19016 Lynchburg District-wide 0000 CN: TRANSPORTATION ENHANCEMENT/BYWAY/OTHER NON-TRADITIONAL

Maintenance: Preventive Maintenance and System Preservation

	System	UPC Jurisdict	ion / Name / Description	Street(Route)	Estimate
Miscellaneous	T14716 Lynchbur	g District-wide	0000		\$60,798,374
	STIP-MN	Lynchburg: Preventiv	ve MN and System Preservat	tion	
Maintenance : Pre	ventive Maintenance	and System Preserva	tion Total		\$60,798,374

Maintenance: Preventative Maintenance for Bridges

	System	UPC Jurisdict	ion / Name / Description	Street(Route)	Estimate
Miscellaneous	T14715 Lynchburg	g District-wide	0000		\$17,615,173
	STIP-MN	Lynchburg: Preventiv	e MN for Bridges		
Maintenance : Pre	ventive Maintenance f	or Bridges Total			\$17,615,173

Maintenance: Traffic and Safety Operations

	System	UPC Jurisdiction	on / Name / Description	Street(Route)	Estimate
Miscellaneous	T14714 Lynchbur	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
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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);
- 3) 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
Jany Throter	Les Norez X
Signature	Signature
Secretary, CVTPO	ISTERY KANDY MANALE
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. Christig, Secretary

Central Virginia Transportation Planning

Organization

Edgar J. T. Perrów, Jr., Chair

Central Virginia Transportation Planning

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: https://www.fhwa.dot.gov/tpm/.

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%
5	Number of Non-Motorized Fatalities and Non-Motorized Serious Injuries	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.¹ 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 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.

¹ 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.

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:

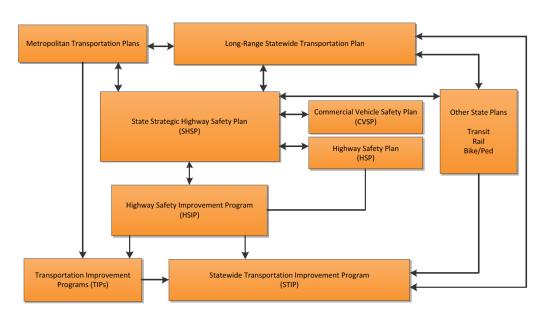
Reduce the number and rate of motorized fatalities and serious injuries.

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 performance objectives and targets and is consistent with Virginia's SHSP and the HSIP.

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 2018-2021.² 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 1st 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.

² Virginia's Baseline Performance Period Report data is through December 2017 **Central Virginia TIP FY 21-24**

Table 1: Pavement Condition Measures and Performance Targets

Interstate Pavement Condition Measures ³	CY 2018-2019	CY 2018-2021
Percentage of Pavements in Good Condition	N/A ⁴	45.0%
Percentage of Pavements in Poor Condition	N/A ³	3.0%
Non-Interstate NHS Pavement Condition Measures ⁵	2018-2019	2018-2021
Percentage of Non-Interstate Pavements in Good Condition	25.0%	25.0%
Percentage of Non-Interstate Pavements in Poor Condition	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 Condition	33.5%	33.0%
Percentage of Deck Area of NBI Bridges on the NHS in Poor Condition	3.5%	3.0%

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.

³ Interstate condition measures are based on four distresses: International Roughness Index (IRI), cracking, rutting, and faulting.

⁴ 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.

⁵ 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.

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 State of Good Repair 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: State of Good Repair for Bridges and Local Assistance Funding Programs.

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 "hands-on" 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 1st 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
	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.

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.

⁶ During this first performance period, States are not required to establish 2-year targets for the Non-Interstate NHS reliability measure.

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

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.