Transportation Improvement Program (TIP)

for the

New River Valley Metropolitan Planning Organization

Fiscal Years 2021 - 2024

Approved May 7, 2020

Amendment # 1 November 5, 2020 Amendment # 2 May 6, 2021 Amendment # 3 November 4, 2021 Amendment # 4 ______, 2022

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This Transportation Improvement Program was approved as a Final Report by the New River Valley Metropolitan Planning Organization on May 7, 2020.

It was prepared for the New River Valley Metropolitan Planning Organization by the Technical Advisory Committee of the New River Valley Metropolitan Planning Organization through a cooperative process involving the Towns of Blacksburg and Christiansburg, the City of Radford, the Counties of Montgomery and Pulaski, Blacksburg Transit, Radford Transit, Pulaski Area Transit, the Virginia Tech - Montgomery Executive Airport Authority, Virginia Tech, Radford University, New River Community College, the Virginia Department of Transportation, the Department of Rail and Public Transportation, the Federal Highway Administration (FHWA), and the Federal Transit Administration (FTA).

The preparation of this report has been financed in part through grant[s] from the Federal Highway Administration and Federal Transit Administration, U.S. Department of Transportation, under the State Planning and Research Program, Section 505 [or Metropolitan Planning Program, Section 104(f)] of Title 23, U.S. Code. The contents of this report do not necessarily reflect the official views or policy of the U.S. Department of Transportation.

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Introduction

Purpose and Development

The Transportation Improvement Program (TIP) for the Blacksburg Urbanized Area is a comprehensive listing of transportation activities to be undertaken during the three-year interval for which it is developed. The basic purpose of the TIP is to recommend transportation projects for federal funding while combining the efforts of local jurisdictions into a regionally coordinated plan of improvements. The TIP is developed in accordance with provisions in federal legislation; Fixing America's Surface Transportation (FAST) Act. Information on the FAST Act can be found on the MPO website or at the following link: www.fhwa.dot.gov/fastact/.

Projects are proposed for the TIP by local officials, transit operating officials, the Virginia Department of Transportation and any other agencies or officials responsible for transportation projects within the region. These officials, through the New River Valley Metropolitan Planning Organization (MPO), select and schedule projects that they support for endorsement in the TIP. The Transportation Improvement Program is endorsed annually by the MPO and may be modified by amendments at any time. MPO membership currently includes officials from Montgomery and Pulaski Counties, the Towns of Blacksburg and Christiansburg, The City of Radford, Virginia Tech, Radford University, New River Community College, the New River Valley Regional Commission, Blacksburg Transit, Radford Transit, Pulaski Area Transit, the Virginia Tech/Montgomery Regional Airport Authority, the Virginia Department of Transportation, the Virginia Department of Rail and Public Transportation, the Federal Highway Administration, and the Federal Transit Administration.

The Comprehensive, Continuing, Cooperative (3-C) process of the MPO, provides a natural mechanism by which the plan can be carefully reviewed and updated annually. Annual development of this program helps to clarify future needs, allow revisions to accommodate changing conditions, and allows developing local and regional plans to be continually incorporated. The Technical Advisory Committee to the MPO made up of representatives from local, state, and federal agencies, provides the professional expertise necessary to derive a plan, and ensure that all local and regional interests are considered. Once the program is developed, the MPO reviews and approves the program according to policies adopted by the local governments.

With few exceptions, any proposed transportation project should be included in the TIP to be considered eligible for federal funding. All phases of a project including preliminary engineering, right-of-way acquisitions, or construction should be documented in the TIP.

Understanding the TIP

The arrangement of the Transportation Improvement Program identifies those capital projects anticipated during fiscal years 2021-22, through 2024-25. The project tables generally include a brief description of each project and the projected funding required to complete the project. This document provides detailed project tables for highway improvements including Interstate, Primary, Urban and Secondary system projects; safety improvements, Transportation Alternative projects, public transportation improvements, and airport improvements.

Financial Plan

The New River Valley MPO Transportation Improvement Program (TIP) provides a summary of how transportation revenues in the program will be invested over a four-year period by the state and local agencies that have legal responsibility to build, operate, and maintain the state's highway, road, street, airport, and public transit systems. Federally funded expenditures are required by federal law to be consistent with the FY2040 Long Range Plan adopted in November 2015 and to be constrained to include only projects that we anticipate having enough revenue to complete. A portion of this money is used to maintain and operate the transportation systems. The remainder is for capital projects.

The project tables have been derived from information provided to the MPO staff by the state and local agencies responsible for funding participation. These tables represent the best estimate of project descriptions and costs that can be made in advance of final negotiation. The principal references for the compilation of the roadway improvements section was the Virginia Commonwealth Transportation Board's current Transportation Development Plan, and the reader is directed to this publication for further discussion of the majority of roadway projects included in this report, as well as the Six Year Secondary Road Improvement Program for Montgomery County.

Federal regulations require the TIP to be financially constrained by fiscal year. The STIP must demonstrate that there is enough money available each year to fund projects listed in the TIP for the year. The purpose of the included tables is to demonstrate financial constraint (for Highway Projects, see pp. 9-15; for Transit/Public Transportation Projects, see pp. 16-21; for Airport/Aviation Projects, see pp. 22-23). The tables compare estimated revenues and expenditures by funding source and indicate how much revenue is estimated will be available each year from federal, state and local sources.

Definitions and Abbreviations

- *AC Advance Construction*
- ADA Americans with Disabilities Act
- Allocation An administrative distribution of funds set apart or designated for a special purpose.
- Apportionment A law that refers to a statutorily prescribed division or assignment of funds. An apportionment is based on prescribed formulas in the law and consists of dividing authorized obligation authority for a specific program.
- BH Bridge Rehabilitation Funds
- BR Bridge Replacement Funds
- BROS Bridge (off-system, not on the federal-aidsystem)
- DEMO Demonstration
- Earmarked To reserve or set aside for a specific purpose

- EB − Equity Bonus
- EN Enhancement Funds
- *IM Interstate Maintenance Funds*
- *M − Urbanized Funds*
- *MG Minimum Guarantee*
- NHS National Highway System Funds
- PAPI Precision Approach Path Indicator
- PPMS Project Planning Management System (VDOT Tracking System Number)
- RPZ Runway Protection Zone RRP Rail Highway Protective Devices Funds
- RRP Rail Highway Protective Devices Funds
- RRS Rail Highway Grade Separation Funds
- S State Funds
- STP Surface Transportation Program Funds
- *UST Underground Storage Tank*
- [] Signifies a Very Preliminary Estimate of Cost

PUBLIC TRANSPORTATION PROGRAM

Federal Public Transportation Funding

Federal grants for public transportation programs are authorized by the FAST Act signed into law in December. Brief descriptions of funding categories for capital and operating expenses are given below for the programs typically used by transit agencies in the NRVMPO. Descriptions are posted at https://www.transit.dot.gov/grants.

Section 5310 Enhanced Mobility of Seniors & Individuals with Disabilities (formerly section 16) - Formula funding to states for the purpose of assisting private nonprofit groups in meeting transportation needs of the elderly and persons with disabilities.

Section 5311 Formula Grants for Rural Areas (formerly Section 18) - Provides capital, planning, and operating assistance to states to support public transportation in rural areas with populations less than 50,000, where many residents often rely on public transit to reach their destinations.

Section 5339(a) Grants for Buses and Bus Facilities Formula Program - Provides funding to states and transit agencies through a statutory formula to replace, rehabilitate and purchase buses and related equipment and to construct bus-related facilities. In addition to the formula allocation, this program includes two discretionary components: The Bus and Bus Facilities Discretionary Program and the Low or No Emissions Bus Discretionary Program.

Grants for Buses and Bus Facilities Program - Provides funding through a formula and competitive allocation process to states and transit agencies to replace, rehabilitate and purchase buses and related equipment and to construct bus-related facilities. The competitive allocation provides funding for major improvements to bus transit systems that would not be achievable through formula allocations.

Section 5307 Urbanized Area Formula Grants - Provides funding to public transit systems in Urbanized Areas (UZA) for public transportation capital, planning, job access and reverse commute projects, as well as operating expenses in certain circumstances. Up to 80% of capital improvements and up to 50% for operating expenses may be federally funded. Project priority is determined by the state.

The Federal Transit Administration has several other funding programs that are for planning and other specialized purposes and are generally not referred to in the Transportation Planning and Research Program.

Public Transportation Project Justification Narratives

In accordance with FTA reporting procedures discussions of the justification for individual projects applied for under the federal transit program must be included in the TIP. Section 5310 projects, which are reported through the Virginia Department of Rail and Public Transportation Division, remain unaffected by this requirement.

Operating Assistance (Blacksburg Transit)

Blacksburg Transit, a department of the Town of Blacksburg, Virginia, is a designated recipient of state and federal aid programs for public transit service. BT provides transit service to roughly 74,000 residents of the MPO area. Transit service is provided within the Town of Blacksburg, with a route that runs through Montgomery County to the Town of Christiansburg. Since a majority of Blacksburg Transit ridership is associated with the local university, Virginia Tech, service schedules coincide with the class schedules at the university.

During full service the hours of operation for routes within the Town of Blacksburg town limits are

Monday – Thursday 7:00 am to 12:45 am

Friday 7:00 am to 2:45 am

Saturday 9:30 am 2:45 am

Sunday 11:30 am to 11:30 pm

During reduced service* the hours of operation are:

Monday – Friday 7:00 am to 10:30 pm

Saturday 9:30 am 9:15 pm

Sunday 11:30 am to 7:15 pm

*note "reduced service" is during the summer and winter breaks.

Blacksburg Transit's complementary paratransit service is known as BT ACCESS. BT ACCESS' door-to-door service for persons with disabilities. It is available throughout the Town of Blacksburg during the times that fixed route service operates, and is widely recognized as one of the best in the state.

For routes in Blacksburg, Blacksburg Transit maintains an active fleet of 53 full-sized transit buses and 18 Body-On-Chassis (BOC) vehicles and vans for a total of 71. Blacksburg Transit's fleet is 100 percent accessible. Morning pullout during full service is 47 vehicles. BT provided 4,659,053 passenger trips during fiscal year 2019.

Service for the Town of Christiansburg

Service in the Town of Christiansburg, provided by BT, covers all areas within the Town limits. The current routes include the Go Anywhere! (demand-response), Explorer (deviated fixed route), and Commuter Service routes.

For year round service within Christiansburg, the hours of operation are

Monday - Friday 7:00 am to 5:45 pm

Saturday 9:30 am to 4:45 pm there is no Sunday service.

See the latest hours at http://ridebt.org/hours-of-operation

Blacksburg Transit, in cooperation with Virginia Tech, plans to construct a multi-modal transit facility (MMTF) to serve the existing and future riders in Blacksburg and the surrounding region. It is envisioned that this facility will be a hub for local and regional transit, creating a centralized transportation center that will promote alternative modes and facilitate non-automobile traffic. The facility, to include 17 bus bays on an east and west loop along with a 13,500 square foot building with a passenger waiting area, will allow future expansion of service to be better served by an expanded and comprehensive transit operation.

The NRV MPO Policy Board has authorized the Town Manager of the Town of Blacksburg on behalf of the NRV MPO to seek federal and state funding to support transit services. The projected program budget is for expenditures to be incurred for the provision of a standard level of transit service system-wide and represents no major changes in eligible expense categories from the previous grant year.

Operating Assistance (Radford Transit)

Radford Transit is a service provided by the City of Radford. Service is contracted through New River Valley Community Services and is a partnership between the City of Radford and Radford University. RT provides service to citizens and students in the City of Radford, Radford University, Fairlawn in Pulaski County, with connecting service to Christiansburg, and Blacksburg. Service is provided year-round with reduced service provided during times when Radford University is not in session.

At times when full service levels are provided, typical hours of operation are as follows:

Monday - Thursday: 6:50am - 10:50pm

Friday: 6:50am - 2:40am

Saturday: 9:50am - 2:40am

Sunday: 5:50pm - 11:50pm

Reduced service hours (when Radford University is not in session) are as follows:

Monday - Friday: 6:50am - 8:05pm

Saturday: 9:50am – 8:05pm

All Radford Transit service is "deviated fixed-route" which enables any person requesting a deviation to do so with 24-hour notice. Buses may deviate from fixed routes up to ³/₄ mile from the bus route.

Radford Transit's fleet consists of five (5) body-on-chassis (Cutaway) style buses, eleven (11) 23-passenger low floor body-on-chassis (Cutaway) style buses, two (2) 29-passenger medium duty body-on-chassis (Cutaway) style buses, and two (2) low floor heavy duty transit buses.

In fiscal year, 2019 RT provided 268,727 passenger trips, a drop from the previous year. RT employs approximately 60 full and part-time employees and is a functioning department of New River Valley Community Services within the agency's transit services department. NRVCS also provides Community Transit (CT) service throughout the New River Valley. This service targets human service transportation and provides some service for Radford Transit in the connection with the New River Valley Medical Center.

The NRV MPO Policy Board has authorized the City Manager of the City of Radford on behalf of the NRV MPO to seek federal and state funding to support transit services. The projected program budget is for expenditures to be incurred for the provision of a standard level of transit service system-wide and represents no major changes in eligible expense categories from the previous grant year.

Performance Measures

Federal legislation requires that all MPOs establish performance measures to help assure funding is being used appropriately. This can be accomplished by setting measures specifically for the MPO or adopting the measures that are set by the State. The NRV MPO has adopted the measures used by the State. Currently, performance measures have been established for Safety. Other measures will be adopted later this year. The State measures adopted by the MPO for Safety follow.

Appendix E, Addendum 1: Performance Based Planning and Programming – 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 – 2021 Strategic Highway Safety Plan</u> (SHSP) 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.

 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%

Table 1: 2017 - 2021 SHSP Safety Performance Objectives

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 transportation that is more comprehensive safety planning.

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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.

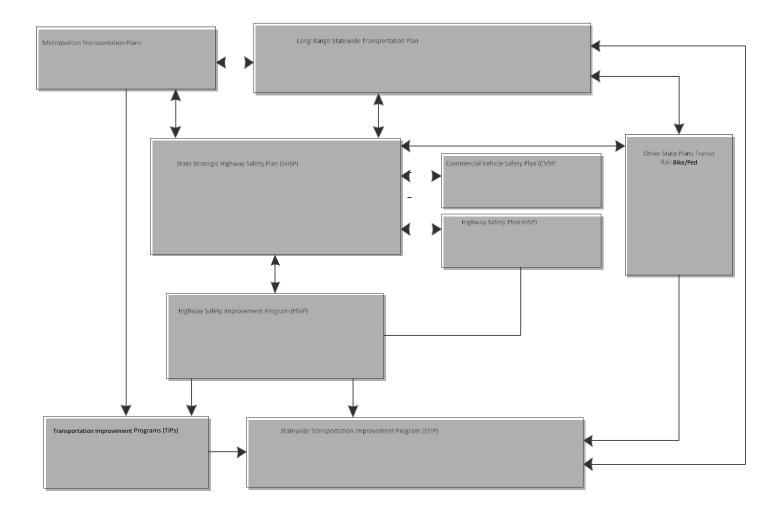
The LRSTP, VTrans2040, guides the state's investment decisions for transportation improvements. Safety and performance management is included in the VTrans2040 Vision, Goals & Objectives, and Guiding Principles:

- 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 below:



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.

Appendix E, Addendum 3: Performance Based Planning and Programming - 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 2018-2021¹. 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.

Table 1: Pavement Condition Measures and Performance Targets

| Interstate Pavement Condition Measures ² | CY 2018-2019 Two Year Target | CY 2018-2021 Four Year Target |
|---|---------------------------------|----------------------------------|
| Percentage of Pavements in Good Condition | N/A ³ | 45.0% |
| Percentage of Pavements in Poor Condition | N/A ³ | 3.0% |
| Non-Interstate NHS Pavement Condition Measures ⁴ | 2018-2019 Two Year Target | 2018-2021 Four Year Target |
| 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.

¹ Virginia's Baseline Performance Period Report data is through December 2017.

² Interstate condition measures are based on four distresses: International Roughness Index (IRI), cracking, rutting, and faulting.

³ 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.

⁴ 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.

Table 2: NHS Bridge Condition Measures and Performance Targets

| NHS Bridge Condition Measures | CY 2018-2019 Two Year Target | CY 2018-2021 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.

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.
 - o 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: <u>State of Good Repair for</u> 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.

Appendix E, Addendum 4: Performance Based Planning and Programming - 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 Two Year Target | CY 2018-2021 Four Year Target |
|--|---------------------------------|----------------------------------|
| Percent of Person Miles Traveled on the Interstate That Are Reliable | 82.2% | 82.0% |
| Percent of Person Miles Traveled on the Non-Interstate NHS That Are Reliable | N/A ¹ | 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

| | CY 2018-2019 | CY 2018-2021 |
|--|-----------------|------------------|
| Truck Travel Time Reliability Performance | Two Year Target | Four Year Target |
| Truck Travel Time Reliability Index | 1.53 | 1.56 |

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.

¹ During this first performance period, States are not required to establish 2-year targets for the Non-Interstate NHS reliability measure.

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.

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.
 - o 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.
 - o Objectives:
 - Reduce average peak-period travel times in metropolitan areas.
 - Reduce average daily trip lengths in metropolitan areas.
 - Increase the accessibility to jobs via transit, walking and driving in metropolitan 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.

Performance Based Planning and Programming for Transit Asset Management

The two most recent federal transportation laws, MAP-21 and FAST Act, establish performance measure requirements to ensure states and metropolitan 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 sub recipient of FTA 5311 funds, is an American Indian Tribe, 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 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 New River Valley's planning process will integrate, either directly or by reference, the goals, objectives, performance measures, and targets described in the Tier II group plan. The transit providers within the MPO are all Tier II.

The National Transit Asset Management System Final Rule (49 U.S.C 625) specifies four performance measures, which apply to four TAM asset categories: equipment, rolling stock, infrastructure, and facilities. Figure 2 describes each of these measures.

Figure 2: TAM Performance Measures by Asset Category

| Asset Category | Relevant Assets | Measure | Measure Type | Desired Direction |
|-------------------|--|--|-----------------------|------------------------|
| Equipment | Service support, maintenance, and other non-revenue vehicles | Percentage of vehicles that have met or exceeded their ULB | Age-based | Minimize percentage |
| Rolling Stock | Buses, vans, and sedans; light and heavy rail cars; commuter rail cars and locomotives; ferry boats | Percentage of revenue vehicles that have met or exceeded their ULB | Age-based | Minimize percentage |
| Infrastructure | Fixed guideway track | Percentage of track segments with performance (speed) restrictions, by mode | Performance- based | Minimize percentage |
| Facilities | Passenger stations, parking facilities, administration and maintenance facilities | Percentage of assets with condition rating lower than 3.0 on FTA TERM Scale | Condition- based | Minimize percentage |

FTA = Federal Transit Administration. TAM = Transit Asset Management. TERM = Transit Economic Requirements Model. ULB = Useful Life Benchmark.

Two definitions apply to these performance measures:

- **Useful Life Benchmark (ULB)** "The expected lifecycle of a capital asset for a particular transit provider's operating environment, or the acceptable period of use in service for a particular transit provider's operating environment." For example, FTA's default ULB of a bus is 14 years.
- **FTA Transit Economic Requirements Model (TERM) Scale**—A rating system used in FTA's TERM to describe asset condition. The scale values are 1 (poor), 2 (marginal), 3 (adequate), 4 (good), and 5 (excellent).

The National Transit Asset Management System Final Rule (49 U.S.C. 625) requires that all transit agencies that receive federal financial assistance under 49 U.S.C. Chapter 53 and own, operate, or manage capital assets used in the provision of public transportation create a TAM plan. Agencies are required to fulfill this requirement through an individual or group plan. The TAM rule provides two tiers of requirements for transit agencies based on size and operating characteristics:

- 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 sub recipient 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.

Tier II Group Plan

The Department of Rail and Public Transportation (DRPT) is the sponsor for the Statewide Tier II Group Plan. The New River Valley programs federal transportation funds for the Town of Blacksburg (Blacksburg Transit) and the City of Radford (Radford Transit). The Town of Blacksburg (Blacksburg Transit) and the City of Radford (Radford Transit) are both Tier II agencies participating in the DRPT sponsored group TAM Plan. The MPO has integrated the goals measures and targets described in the Federal Fiscal Year 2018 Group Transit Asset Management Plan and 2020 plan Addendum into the MPO's planning and programming process specific targets for the Tier II Group TAM Plan are included in the table below.

Table 3: TAM Targets for rolling stock and facilities: Percentage of Revenue Vehicles that have met or exceeded their ULB by Asset Type.

| Asset Category - Performance Measure | Asset Class | 2020 Target* |
|---|---|-----------------|
| Revenue Vehicles | | |
| | AB - Articulated Bus | 15% |
| Age - % of revenue vehicles | BU - Bus | 10% |
| within a particular asset | CU - Cutaway | 10% |
| class that have met or | MB - Minibus | 20% |
| exceeded their Useful Life | BR - Over-the-Road Bus | 15% |
| Benchmark (ULB) | TB - Trolley Bus | 10% |
| | VN - Van | 25% |
| Equipment | | |
| Age - % of vehicles that | Non-Revenue/Service Automobile | 25% |
| have met or exceeded their | Trucks and other Rubber Tire Vehicles | 25% |
| Useful Life Benchmark (ULB) | | |
| Facilities | | |
| Condition - % of facilities | Administrative and Maintenance Facility | 10% |
| with a condition rating | Administrative Office | 10% |
| below 3.0 on the FTA TERM Scale | Maintenance Facility | 10% |
| I EINM Scale | Passenger Facilities | 10% |

Additional information and guidance is available on FTAs Transit Asset Management website:

https://www.transit.dot.gov/TAM

FTA TAM planning factsheet:

 $\underline{https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/Planning\%20for\%20TAM\%20fact\%20sheet.}\\ \underline{pdf}$

PUBLIC TRANSPORTATION AGENCY SAFETY PLAN

OVERVIEW OF PTASP AND IMPORTANT DATES FOR MPOS AUGUST 2020

Background

The Public Transportation Agency Safety Plan (PTASP) final rule (49 C.F.R. Part 673) intends to improve public transportation safety by guiding transit agencies to more effectively and proactively manage safety risks in their systems. It requires certain recipients and sub-recipients of Federal Transit Administration (FTA) grants that operate public transportation to develop and implement safety plans that, establish processes and procedures to support the implementation of Safety Management Systems (SMS).

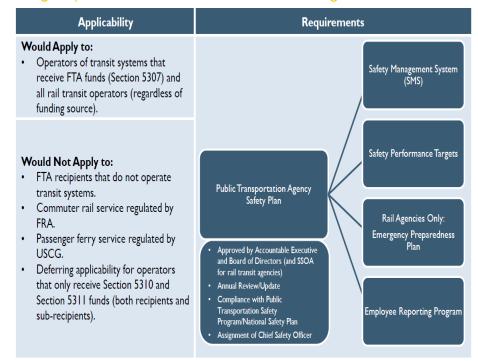
The rule applies to all operators of public transportation systems

that are recipients and sub-recipients of FTA grant funds. Specifically, recipients or sub-recipients who operate public transportation and are a recipient or sub-recipient of Urbanized Area Formula Grant Program funds under 49 U.S.C. § 5307 (Section 5307 Grant Program) see attachment A for a list of Transit agencies.

DRPTs Role: DRPT has drafted a PTASP on behalf of small tier II transportation providers. Under the PTASP rule a small tier II transportation provider is defined as meeting all of the following criteria:

- Is a recipient or sub-recipient of FTA's Urbanized Area Formula Program,
- Operates 100 or fewer vehicles in peak revenue service, and
- Does not operate rail/fixedguideway public transportation

Important Dates
Tier II PTASP plan effective date:
8/11/2020
MPO initial targets include in TIP
by: 2/7/2021



Performance-Based Planning

As part of PTASP requirements, transit agencies must set safety performance targets in their safety plans for each mode (Fixed route and paratransit) based on the following safety performance measures that FTA has established in the National Public Transportation Safety Plan (NSP):

| Measure | Targe | Desired Direction | |
|--------------------|---------------------------------|---------------------------------|----------------------------|
| Fatalities | Total number | Rate per revenue miles | Decreasing number and rate |
| Injuries | Total number | Rate per revenue miles | Decreasing number and rate |
| Safety events | Total number per year | Rate per revenue miles | Decreasing number and rate |
| System reliability | Distance between major failures | Distance between minor failures | Decreasing number and rate |

MPOs must reference performance targets and plans within the MPO transportation improvement program (TIP) and long-range plan. The Safety performance targets and performance-based plans should inform a transit agency's investment priorities, and those investment priorities should be carried forward within the MPO's and State DOT's planning processes. MPOs should also make reference to the PTASP plan in their TIP.

MPO Role

The PTAPS rule states that each transit provider must provide the MPO with safety performance targets to assist the MPO with capital program planning process (Long Range Transportation plan and TIP). The MPO will need to incorporate the performance targets and safety plan(s) (by reference) into the TIP and LRTP. Additional resources on the MPOs role in PTAS is available from the FTA's MPO FAQ page.

For MPOs with tier II transit agencies(s) participating in the group plan, DRPT is providing the agency specific targets developed for the Statewide Tier II group PTASP plan to the MPOs for consideration and inclusion in MPO TIPs.(Attachment A) MPOs may consider adopting the targets provided in the group plan or adopting regionally specific targets of their own. For additional guidance please refer to <u>FTA's Safety performance Targets Guide.</u> In many cases MPOs can add the targets to the TIP via an administrative update instead of an amendment.¹

For MPOs with Tier I transit agencies PTASP planning responsibility falls to the transit agency. Agencies should be coordinating with the MPOs to the extent feasible on PTASP target setting. As timeline may differ due to COVID-19 impacts MPOs with Tier I agencies should directly contact the transit providers.

As with other performance measures under MAP-21, MPOs will have **180 days** from the date the plans are certified to adopt measures into the TIP and LRTP. With the publication date of the Tier II group plan being **8/11/2021** MPOs will have to adopt initial targets by **2/7/2021**.

After the initial round in 2021 MPOs will have to update the PTASP performance targets when LRTP or TIP are updated or a transit agency make changes to their targets during an annual PTASP plan review. Transit agencies are required to review their PTASP annually by July 20th.

Public Transportation Agency Safety Plan (PTASP)

The Public Transportation Agency Safety Plan (PTASP) final rule (49 C.F.R. Part 673) intends to improve public transportation safety by guiding transit agencies to more effectively and proactively manage safety risks in their systems. It requires certain recipients and sub-recipients of Federal Transit Administration (FTA) grants that operate public transportation to develop and implement safety plans that, establish processes and procedures to support the implementation of Safety Management Systems (SMS). Agencies are required to fulfill this requirement through an individual or group plan. The PTASP rule provides two tiers of requirements for transit agencies based on size and operating characteristics:

• 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.

 $^{^{}m 1}$ MPOs should follow their procedures as defined in their Public Participation Plans

• 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.

Tier II Group Plan

The Department of Rail and Public Transportation (DRPT) is the sponsor for the Statewide Tier II Group PTASP Plan. The New River Valley MPO programs federal transportation funds for Blacksburg Transit and the City of Radford. Blacksburg Transit and the City of Radford are Tier II agencies participating in the DRPT sponsored group PTASP Plan. The NRV MPO has adopted the <u>Tier II PTASP</u> into its TIP 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. Specific targets for the Tier II Group PTASP Plan are included in the table below.

Table 1: Tier II Transit Agency PTASP Performance Targets by Mode:

Blacksburg Transit

| | Diacksburg Trunsit | , |
|--|--|--|
| | Targets by | Mode |
| Performance Measures | 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 | 0 |
| Injuries (rate per total vehicle revenue miles by mode) | Less than .5 injuries per 100,000 vehicle revenue miles | Less than .5 injuries per 100,000 vehicle revenue miles |
| Safety events (total number of safety events per year) | 10 | 1 |
| Safety events (rate per total vehicle revenue miles by mode) | Less than 1 reportable event per 100,000 vehicle revenue miles | Less than 1 reportable event per 100,000 vehicle revenue miles |
| Distance between Major Failures | 10,000 miles | 10,000 miles |
| Distance between Minor Failures | 3,200 miles | 3,200 miles |

City of Radford

| | Targets by Mode | | | | | |
|--|--|--|--|--|--|--|
| Performance Measures | Fixed Route | | | | | |
| Fatalities (total number of reportable fatalities per year) | 0 | | | | | |
| Fatalities (rate per total vehicle revenue miles by mode) | 0 | | | | | |
| Injuries (total number of reportable injuries per year) | 2 | | | | | |
| Injuries (rate per total vehicle revenue miles by mode) | Less than .5 injuries per 100,000 vehicle revenue miles | | | | | |
| Safety events (total number of safety events per year) | 3 | | | | | |
| Safety events (rate per total vehicle revenue miles by mode) | Less than 1 reportable event per 100,000 vehicle revenue miles | | | | | |
| Distance between Major Failures | 10,000 miles | | | | | |
| Distance between Minor Failures | 3,200 miles | | | | | |

Information and Resources

Additional information and guidance is available on FTAs Public Transportation Safety Plan webpage: https://www.transit.dot.gov/PTASP

PTASP final rule factsheet:

https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/regulations-and-guidance/safety/public-transportation-agency-safety-program/117281/ptasp-fact-sheet-02-06-2019.pdf

DRPT Contact:

Wood Hudson, Statewide transit planner Wood.hudson@drpt.virginia.gov 804-655-4567

Attachment A: Tier II Group PTASP Participants TABLE 2: TIER 2 TRANSIT AGENCIES PARTICIPATING IN DRPT GROUP PLAN

| Transit Agency | MPO |
|--|-----------------------------|
| Blacksburg Transit | New River Valley |
| Blue Ridge Intercity Transit Express (BRITE) | Staunton Augusta Waynesboro |
| Charlottesville Area Transit | Charlottesville Albemarle |
| City of Bristol Transit | Bristol |
| City of Harrisonburg Transit | Harrisonburg Rockingham |
| City of Radford Transit | New River Valley |
| City of Suffolk | Hampton Roads TPO |
| City of Winchester Transit | Winchester-Frederick County |
| Fredericksburg Regional Transit | Fredericksburg Area |
| Greater Lynchburg Transit | Central Virginia |
| Greater Roanoke Transit | Roanoke Valley TPO |
| JAUNT | Charlottesville Albemarle |
| Mountain Lynx Transit (District 3 Transit) | |
| Petersburg Transit | Tri-Cities |
| Williamsburg Area Transit | Hampton Roads TPO |

FEDERAL FUNDING CATEGORIES FISCAL CONSTRAINT BY YEAR

Highway Projects FFY 2021 - 2024

| | FFY | 2021 | FFY | 2022 | F | FFY 2023 FFY 2024 TOT. | | OTAL | | |
|---------------------------------------|--------------------------------------|-----------------------|--------------------------------------|-----------------------|--------------------------------------|------------------------|--------------------------------------|-----------------------|--------------------------------------|-----------------------|
| Fund Source | Projected Obligation Authority | Planned Obligation | Projected Obligation Authority | Planned Obligation | Projected Obligation Authority | Planned Obligation | Projected Obligation Authority | Planned Obligation | Projected Obligation Authority | Planned Obligation |
| Federal | | | | | | | | | | |
| HSIP | \$0 | \$0 | \$302,108 | \$302,108 | \$0 | \$0 | \$0 | \$0 | \$302,108 | \$302,108 |
| TAP | \$103,250 | \$103,250 | \$526,181 | \$526,181 | \$0 | \$0 | \$0 | \$0 | \$629,431 | \$629,431 |
| Subtotal Federal | \$103,250 | \$103,250 | \$828,289 | \$828,289 | \$0 | \$0 | \$0 | \$0 | \$931,539 | \$931,539 |
| Other | | | | | | | | | • | |
| State Match | \$25,813 | \$25,813 | \$207,073 | \$207,073 | \$0 | \$0 | \$0 | \$0 | \$232,886 | \$232,886 |
| Subtotal Other | \$25,813 | \$25,813 | \$207,073 | \$207,073 | \$0 | \$0 | \$0 | \$0 | \$232,886 | \$232,886 |
| Total | \$129,063 | \$129,063 | \$1,035,362 | \$1,035,362 | \$0 | \$0 | \$0 | \$0 | \$1,164,425 | \$1,164,425 |
| Federal - ACC (1) HSIP | \$0 | \$0 | \$0 | \$0 | \$188,061 | \$188,061 | \$0 | \$0 | \$188,061 | \$188,061 |
| NHFP | \$1,134,633 | \$1,134,633 | \$0 | \$0 | \$100,001 | \$100,001 | \$0 | \$0 | \$1,134,633 | \$1,134,633 |
| Subtotal Federal - ACC (1) | \$1,134,633 | \$1,134,633 | \$0 | \$0 | \$188,061 | \$188,061 | \$0 | \$0 | \$1,322,694 | \$1,322,694 |
| Maintenance - Federal (4) | | | | | | | | | | |
| BR | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$4,000,000 | \$4,000,000 |
| NHFP | \$2,500,000 | \$2,500,000 | \$2,500,000 | \$2,500,000 | \$0 | \$0 | \$0 | \$0 | \$5,000,000 | \$5,000,000 |
| NHS/NHPP | \$7,113,312 | \$7,113,312 | \$5,399,286 | \$5,399,286 | \$5,399,286 | \$5,399,286 | \$5,399,286 | \$5,399,286 | \$23,311,170 | \$23,311,170 |
| STP/STBG | \$27,244,307 | \$27,244,307 | \$26,068,877 | \$26,068,877 | \$30,021,568 | \$30,021,568 | \$31,070,795 | \$31,070,795 | \$114,405,547 | \$114,405,547 |
| Subtotal Maintenance - Federal (4) | \$37,857,619 | \$37,857,619 | \$34,968,163 | \$34,968,163 | \$36,420,854 | \$36,420,854 | \$37,470,081 | \$37,470,081 | \$146,716,717 | \$146,716,717 |

- (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

New River Valley MPO

Interstate Projects

| UPC N | 0 | 115852 | SCOPE | Traffic Management/Engineering | | | |
|-------|-------------|---------------------------|--------------|--------------------------------|-----------|-----------|-----|
| SYSTE | М | Interstate | JURISDICTION | Statewide | | OVERSIGHT | NFO |
| PROJE | CT | ITTF FY20 Micro Tr | ansit | ADMIN BY | DRPT | | |
| DESCR | RIPTION | FROM: Various TO: Various | | | | | |
| ROUTE | STREET | 9999 | | TOTAL COST | \$500,000 | | |
| | FUND SOU | IRCE | MATCH | FY23 | FY24 | | |
| PE AC | Federal - A | C OTHER | \$0 | \$500,000 | \$0 | \$0 | \$0 |

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New River Valley MPO

Primary Projects

| UPC N | 0 | 99425 | SCOPE | Reconstruction w/ Added Capacity | | | | |
|-------|-------------|-----------------------|--|--------------------------------------|------|-----------|--------------|--|
| SYSTE | М | Primary | imary JURISDICTION Blacksburg | | | OVERSIGHT | NFO | |
| PROJE | CT | RTE 460 - Southgai | te Dr. Interchange & Connector | | | ADMIN BY | VDOT | |
| DESCR | RIPTION | FROM: 0.156 Mi. W | Int. Southgate Dr. TO: 0.799 Mi. E. Int. Southgate Dr. (0.9556 MI) | | | | | |
| PROGE | RAM NOTE | All funds obligated l | pased on current allo | ased on current allocations/estimate | | | | |
| ROUTE | STREET | RTE. 460 BYPASS | (0460) | (0460) | | | \$51,803,125 | |
| _ | FUND SOURCE | | MATCH | FY21 | FY22 | FY23 | FY24 | |
| | | | \$0 | \$0 | \$0 | \$0 | \$0 | |

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New River Valley MPO

Project Groupings

| GROU | PING | Construction : Bridge Rehabilitation/Replacement/Reconstruction | | | | | | | |
|-----------------|-------------------------|---|-----------|-------------|------|------------|--------------|--|--|
| ROUTE/STREET TO | | | | | | TOTAL COST | \$34,014,401 | | |
| | FUND SOU | IRCE | MATCH | FY21 | FY22 | FY23 | FY24 | | |
| CN | Federal - AC CONVERSION | | \$283,658 | \$1,134,633 | \$0 | \$0 | \$0 | | |

| GROUI | PING | Construction : Rail | | | | | | |
|-------|----------|---------------------|-------|------------|-------------|------|------|-----|
| ROUTE | STREET | | | TOTAL COST | \$2,650,808 | | | |
| | FUND SOL | IRCE | MATCH | FY21 | FY22 | FY23 | FY24 | |
| | | | \$0 | \$0 | \$0 | \$0 | | \$0 |

| GROUP | ROUPING Construction : Safety/ITS/Operational Improvements | | | | | | |
|--------------|--|-----|-----------|-------------|------|------------|--------------|
| ROUTE/STREET | | | | | | TOTAL COST | \$59,762,604 |
| | FUND SOU | RCE | MATCH | FY21 | FY22 | FY23 | FY24 |
| CN AC | Federal - AC | | \$159,176 | \$1,432,587 | \$0 | \$0 | \$0 |

| GROU | PING | Construction : Trans | onstruction : Transportation Enhancement/Byway/Non-Traditional | | | | | | | |
|-------|------------------|----------------------|--|-----------|------|------|--------------|--|--|--|
| ROUTE | ROUTE/STREET | | | | | | \$12,736,860 | | | |
| | FUND SOL | JRCE | MATCH | FY21 | FY22 | FY23 | FY24 | | | |
| RW | Federal - Ta | AP/F | \$20,813 | \$83,250 | \$0 | \$0 | \$0 | | | |
| | Federal - TAP/SU | | \$5,000 | \$20,000 | \$0 | \$0 | \$0 | | | |
| RW TC | TAL | | \$25,813 | \$103,250 | \$0 | \$0 | \$0 | | | |

| CN | Federal - AC CONVERSION | \$47,015 | \$0 | \$0 | \$188,061 | \$0 |
|----------|-------------------------|-----------|-----|-----------|-----------|-----|
| | Federal - HSIP | \$75,527 | \$0 | \$302,108 | \$0 | \$0 |
| | Federal - TAP/F | \$97,088 | \$0 | \$388,350 | \$0 | \$0 |
| | Federal - TAP/SU | \$34,458 | \$0 | \$137,831 | \$0 | \$0 |
| CN TOTAL | | \$254,088 | \$0 | \$828,289 | \$188,061 | \$0 |

| GROU | PING | Maintenance : Prev | entive Maintenance | and System Preserv | ation | | |
|----------|--|--------------------|--------------------|--------------------|--------------|--------------|--------------|
| PROG | OGRAM NOTE Funding identified to be obligated districtwide as projects are identified. | | | | | | |
| ROUT | E/STREET | | | | TOTAL COST | \$85,964,101 | |
| | FUND SOU | IRCE | MATCH | FY21 | FY22 | FY23 | FY24 |
| CN | Federal - N | HFP | \$0 | \$2,500,000 | \$2,500,000 | \$0 | \$0 |
| | Federal - N | HS/NHPP | \$0 | \$4,399,286 | \$4,399,286 | \$4,399,286 | \$4,399,286 |
| | Federal - STP/STBG | | \$0 | \$10,437,163 | \$12,855,974 | \$17,362,178 | \$22,711,642 |
| CN TOTAL | | | \$0 | \$17,336,449 | \$19,755,260 | \$21,761,464 | \$27,110,928 |

| GROU | GROUPING Maintenance : Preventive Maintenance for Bridges | | | | | | |
|--|---|---------|-------|--------------|--------------|--------------|-------------|
| PROGRAM NOTE Funding identified to be obligated districtwide as projects are identified. | | | | | | | |
| ROUTI | E/STREET | | | | TOTAL COST | \$45,370,193 | |
| | FUND SOU | RCE | MATCH | FY21 | FY22 | FY23 | FY24 |
| CN | Federal - Bl | R | \$0 | \$1,000,000 | \$1,000,000 | \$1,000,000 | \$1,000,000 |
| | Federal - N | HS/NHPP | \$0 | \$2,714,026 | \$1,000,000 | \$1,000,000 | \$1,000,000 |
| | Federal - STP/STBG | | \$0 | \$13,711,369 | \$8,692,278 | \$7,776,634 | \$5,475,886 |
| CN TO | TAL | | \$0 | \$17,425,395 | \$10,692,278 | \$9,776,634 | \$7,475,886 |

| GROUPING Maintenance : Traffic and Safety Operations | | | | | | | |
|--|-------------|-----|-------------|-------------|--------------|-------------|------|
| PROGRAM NOTE Funding identified to be obligated districtwide as projects are identified. | | | | | | | |
| ROUTE | E/STREET | | | TOTAL COST | \$15,382,423 | | |
| | FUND SOURCE | | MATCH | FY21 | FY22 | FY23 | FY24 |
| CN Federal - STP/STBG | | \$0 | \$3,095,775 | \$4,520,625 | \$4,882,756 | \$2,883,267 | |

| GROU | PING | Transit : Engineerin | ransit : Engineering | | | | | | |
|-------|-------------|----------------------|----------------------|------|------|------------|------|-------------|--|
| ROUTE | E/STREET | | | | | TOTAL COST | | \$9,340,000 | |
| | FUND SOURCE | | MATCH | FY21 | FY22 | FY23 | FY24 | | |
| | _ | | \$0 | \$0 | \$0 | \$0 | | \$0 | |

Appendix A

Projects by Grouping

New River Valley MPO

Construction : Bridge Rehabilitation/Replacement/Reconstruction

| | System | UPC Jurisdiction / Name / Description | Street(Route) | Estimate |
|---------------|------------------------|---|-----------------------------------|----------------|
| Interstate | 93074 Christiansburg | 0081 | | \$34,014,401 |
| | #SGR RTE 81 | - APPROACHES AND BR OVER RT 8 ; 2 | 2513 AND 22515 | |
| | FROM: 0.381 N | Mile South of Christiansburg SCL TO: 0.51 | 0 Mile North of Christiansburg SC | CL (0.8910 MI) |
| Miscellaneous | T19049 Salem District- | wide 0000 | | \$0 |
| | BRIDGE REHA | ABILITATION/REPLACEMENT | | |
| 1 | | | | |

Construction: Bridge Rehabilitation/Replacement/Reconstruction Total

\$34,014,401

Construction: Rail

| | Syst | em UI | C Jurisdiction / Nam | e / Description | Street(Route) | Estimate |
|--------------------|--------|---------------------|-----------------------|------------------------|------------------------------|-------------|
| Miscellaneous | T19041 | Salem District-wide | | 0000 | | \$0 |
| | | CN: RAIL | | | | |
| Miscellaneous | 112018 | Statewide | | HIGHWAY-RAIL SAF | ETY (0000) | \$700,000 |
| | | Highway-Rail Safe | y Inventory Section 1 | 30 PE Only | | |
| | | FROM: Statewide | O: Statewide | | | |
| Miscellaneous | 112213 | Statewide | | HIGHWAY RAIL SAF | ETY (0000) | \$300,000 |
| | | Highway-Rail Sect | on 130 Pre Scoping F | PE Only | | |
| | | FROM: Statewide | O: Statewide | | | |
| Miscellaneous | 112497 | Statewide | | VARIOUS (0000) | | \$500,000 |
| | | ENVIRONMENTAL | EQ429 FORM PRO | CESSING CHARGES | | |
| | | FROM: FOR HIGH | WAY/RAIL SAFETY I | PROJECTS WITHOUT | T PE NUMBERS TO: ASSIGNED | |
| Urban | 105608 | Christiansburg | | CHRISMAN MILL RD | (0000) | \$1,150,808 |
| | | Chrisman Mill Rd - | Realign N Side of Roa | ad at Crossing | | |
| | | FROM: 1.1 Mi. N. o | f Silver Lake Road (S | SR 662) TO: 1.2 Mi. N. | of Silver Lake Road (SR 662) | |
| Construction: Rail | Total | | | | | \$2,650,808 |

Construction: Safety/ITS/Operational Improvements

| | Syste | m | UPC Jurisdiction / Name / Description | Street(Route) | Estimate |
|------------|--------|---|---|---------------|--------------|
| Interstate | 116039 | Statewide | 0081 | | \$12,500,000 |
| | 1 | I-81 DMS Inst | allation | | |
| | i | FROM: Variou | us TO: Various | | |
| Interstate | 107802 | Statewide | 9999 | | \$918,907 |
| | I | Incident Mana | gement Emergency Evacuation and Detour Pl | ans | |
| | F | FROM: Variou | us TO: Various | | |
| Interstate | 110551 | Statewide | 9999 | | \$362,560 |
| | • | Traffic Video | Expansion - Statewide | | |
| | 1 | FROM: Vario | us TO: Various | | |
| Interstate | 110912 | Statewide | 9999 | | \$813,019 |
| | (| Statewide Truck Parking Management System - Phase 1 | | | |
| | F | FROM: Variou | us TO: Various | | |

New River Valley MPO

Construction: Safety/ITS/Operational Improvements

| | Syst | n UPC Jurisdiction / Name / Descri | ption Street(Route) | Estimate |
|--------------------|------------|--|---|--------------|
| Interstate | 111613 | statewide 9999 | | \$1,807,000 |
| | | statewide Truck Parking Management System - F | Phase 2 | |
| | | ROM: Various TO: Various | | |
| Interstate | 111892 | statewide 9999 | | \$0 |
| | | TMS - Phase 1, 2, 3, 4 | | |
| | | ROM: Various TO: Various | | |
| Interstate | 114400 | statewide 9999 | | \$300,000 |
| | | Prone Technology Project | | |
| | | ROM: Various TO: Various | | |
| Interstate | 115854 | Statewide 9999 | | \$1,250,000 |
| | | TTF FY20 Arterial Operations Program Dashboa | rd | |
| | | ROM: n/a TO: n/a | | |
| Interstate | 115855 | Statewide 9999 | | \$4,700,000 |
| | | TTF FY20 High Speed Communications | | |
| | | ROM: Various TO: Various | | |
| Miscellaneous | T19045 | Salem District-wide 0000 | | \$0 |
| | | :N: SAFETY/ITS/OPERATIONAL/IMPROVEMEN | NTS | |
| Miscellaneous | 105481 | statewide 0000 | | \$1,400,000 |
| | | mplement iPeMS (Iteris Performance Measurem | ent | |
| | | system) FROM: various TO: various | | |
| Miscellaneous | 114193 | Statewide VARIOU | S (9999) | \$0 |
| | | PEDESTRIAN IMPROVEMENTS AT PRIORITY | CORRIDOR STATEWIDE | |
| | | ROM: VARIOUS TO: VARIOUS | | |
| Primary | 108909 | Christiansburg US 460 | EB RAMP (0460) | \$1,751,751 |
| | | HB2.FY17 Route 460 at Franklin Street EB Ram | p Construction | |
| | | ROM: US Route 460 Bypass Ramp TO: Franklin | Street (Route 460 Business) (0.2680 MI) | |
| Secondary | 106701 | Salem District-wide 9999 | | \$1,841,763 |
| | | IRRR - Safety Improvements | | |
| | | ROM: Int. Rte. 757 and Rte. 1535 TO: Int. Rte. | 555 and Rte. 616 | |
| Urban | 104387 | Christiansburg N. FRAN | KLIN / CAMBRIA (0460) | \$7,483,928 |
| | | HB2.FY17 Intersection Improv - N. Franklin St/C | ambria St | |
| | | ROM: 0.25 mi N of intersection with Cambria St llvd (0.7700 MI) | (Rte. 111) TO: 0.02 mi N of intersection with | Independence |
| Urban | 8746 | Christiansburg PEPPEF | S FERRY RD (0114) | \$24,633,676 |
| | | TE 114 - PEPPERS FERRY ROAD - WIDEN TO | 0.4 LANES | |
| | | ROM: ROUTE 460 TO: 0.789 Km East of WCL (| 1.5309 KM) | |
| Construction: Safe | tv/ITS/Ope | tional Improvements Total | | \$59,762,604 |

Construction: Transportation Enhancement/Byway/Non-Traditional

| | System | UPC Jurisdiction / Name / Description | Street(Route) | Estimate |
|-------------|--|---------------------------------------|---------------|-----------|
| Enhancement | 113355 Blacksburg | MAIN STREET (0000) | | \$780,250 |
| | Main Street Po | | | |
| | FROM: Roanoke Street TO: Washington Street | | | |

New River Valley MPO

Construction: Transportation Enhancement/Byway/Non-Traditional

| | Syst | em | UPC Jurisdiction / I | Name / Description | Street(Route) | Estimate |
|--------------------|--------------|--------------------------|--|---------------------------|---------------------------------------|-----------------------|
| Enhancement | 103637 | Christiansburg | I | EAST MAIN ST & | FRANKLIN ST (0000) | \$1,808,017 |
| | | Christiansburg | Downtown Streetsca | aping, Phase C503 (Ph1 | B) | |
| | | FROM: Roand | ke Street TO: Frankli | n Street | | |
| Enhancement | 108360 | Christiansburg | 1 | 0000 | | \$1,200,431 |
| | | Huckleberry T | rail - Phase 3 | | | |
| | | FROM: Future | Peppers Ferry Rd Co | onnector TO: Intersection | on of Gold Leaf Dr and Independence | e Blvd |
| Enhancement | 113352 | Christiansburg | 1 | ROANOKE STREE | ET (0000) | \$958,226 |
| | | Roanoke Stre | et Sidewalk at 460 By | -Pass | | |
| | | FROM: 600 ft. | east of Falling Branc | h Rd TO: Hubble Drive | on Roanoke Street | |
| Enhancement | 104770 | Montgomery (| County | HUCKLEBERRY T | FRAIL (0000) | \$425,764 |
| | | Huckleberry T | rail - Phase 2D | | | |
| | | FROM: Provid | ence Boulevard TO: I | Food Lion Shopping Pla | za (0.5400 MI) | |
| Enhancement | 103920 | Blacksburg | | EN01 | | \$20,501 |
| | | Virginia Tech, | /irginia Tech, Hokie Bikeways C505 fence | | | |
| Enhancement | 94264 | Montgomery (| County | EN09 | | \$314,453 |
| | | Huckleberry T | rail Extension | | | |
| | | FROM: Route parking lot) | 114 - Peppers Ferry | Road (at Wal-Mart parki | ing lot) TO: Farm View Road Extensi | on (at Home Depot |
| Enhancement | 111319 | Blacksburg | | BIKE PARKING AI | MENITIES (EN17) | \$160,885 |
| | | Town of Black | sburg - Bike Parking | | | |
| | | FROM: Variou | ıs TO: Various | | | |
| Enhancement | 111314 | Christiansburg | 1 | DEPOT PARK TR | AIL (EN17) | \$499,045 |
| | | Depot Park Tr | ail Extension | | | |
| | | FROM: Mill La | ine TO: Depot Park | | | |
| Miscellaneous | T19040 | Salem District | -wide | 0000 | | \$0 |
| | | CN: TRANSP | ORTATION ENHANC | EMENT/BYWAY/OTHE | R NON-TRADITIONAL | |
| Primary | 105518 | Christiansburg | I | FALLING BRANCH | H PARK AND RIDE (9999) | \$4,665,302 |
| | | Relocation of | Falling Branch Park a | nd Ride. | | |
| | | FROM: Int. Ro | oute 460 Business and | d Hubbell Drive TO: 0.05 | 52 Mi. E. Alma Street Int. with Hubbe | ell Drive (0.1000 MI) |
| Urban | 56407 | Christiansburg | ı | EN00 | | \$1,903,986 |
| | | TOWN OF CH | RISTIANSBURG - S | TREETSCAPING AND F | PEDESTRIAN | |
| | | | | IE CENTRAL BUSINES | | |
| Construction: Tran | sportation l | | syway/Non-Traditional | | _ | \$12,736,860 |

Maintenance: Preventive Maintenance and System Preservation

| | System | UPC Jurisdiction / Name / Descr | iption Street(Route) | Estimate |
|--|-----------------------|---------------------------------|----------------------|----------|
| Miscellaneous | T14722 Salem District | \$85,964,101 | | |
| | STIP-MN Sale | m: Preventive MN and System Pre | servation | |
| Maintenance: Preventive Maintenance and System Preservation Total \$85 | | | | |

New River Valley MPO

Maintenance: Preventive Maintenance for Bridges

| | System | UPC Jurisdiction / Name / Description | Street(Route) | Estimate |
|---|-------------------|---------------------------------------|---------------|--------------|
| Miscellaneous | T14721 Salem Dist | rict-wide 0000 | | \$45,370,193 |
| | STIP-MN S | Salem: Preventive MN for Bridges | | |
| Maintenance: Preventive Maintenance for Bridges Total | | | | \$45,370,193 |

Maintenance: Traffic and Safety Operations

| | System | UPC Jurisdiction / Name / Description | Street(Route) | Estimate | |
|--|--|---------------------------------------|---------------|--------------|--|
| Miscellaneous | T14720 Salem District-v | ride 0000 | | \$15,382,423 | |
| STIP-MN Salem: Traffic and Safety Operations | | | | | |
| Maintenance: Traf | Maintenance: Traffic and Safety Operations Total \$15,382, | | | | |

Transit: Engineering

| | Syste | em UPC Jurisdic | tion / Name / Description | Street(Route) | Estimate |
|----------------------------|-----------|-------------------------------|---------------------------|---------------|-------------|
| Miscellaneous | T19064 | Salem District-wide | 0000 | | \$0 |
| | | CN: TRANSIT ENGINEERING | G | | |
| Urban | 70594 | Christiansburg | 114/460 CONNEC | CT. (0114) | \$9,340,000 |
| | | N. Franklin St - Rte114 - CON | INECTOR TO ROUTE 460 | | |
| Transit : Engineer | ing Total | | | | \$9,340,000 |
| New River Valley MPO Total | | | \$265,221,390 | | |

| | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 20 | 21-2024 | |
|------------------------------------|----------------------|---------------------------------|--|-----------------------|----------------------------|----------------------|--|--------------------|
| STIP ID: | BBT0001 | Title: Operating Ass | sistance | Recipient: | Blacksburg Trans | it | | |
| FTA 5307 | 1,877 | 2,174 | 0 2,174 2,080 | 2,211 | 2,315 | FTA 5307 | 6,700 8,874 8,780 | Blacksburg Transit |
| CARES/CRRSAA/ <mark>AR</mark> P | 6,122 | <mark>0</mark> 4 <u>,827</u> | 1,965 <mark>0</mark> | 0 | 0 | CARES/CRRSAA /ARP | 1,965 0 4,827 | Blacksburg Transit |
| State | 2,344 | 2,732 | 3,187 2,732 3,141 | 3,339 | 3,497 | State | 12,755 12,300 12,709 | Blacksburg Transit |
| Local | 4,472 | 2,271 | 5,638 5,992 | 6,369 | 6,670 | Local | 20,948 21,302 | Blacksburg Transit |
| Revenues | 170 | 3,281 | 168 228 10,958 | 243 | 254 | Revenues | 3,946 4,006 46,314 | Blacksburg Transit |
| Year Total: | 14,985 | 10,458 15,285 | 10,713 11,441 | 12,162 | | Total Funds: | 4 6,069 51,62 4 | Blacksburg Transit |
| Description: | | | ofunding, and adjusts nt # 4 adds ARP fund | | ional and adjusts tota | | RP funding | |
| STIP ID: | BBT0002 | Title: Replacement | Rolling Stock | Recipient: | Blacksburg Transit | | | |
| Flexible STP | 208 | 894 | 17,608 | 3,051 | 3,80 4 | Flexible STP | 25,565 | Blacksburg Transit |
| Fed 5339 | 0 | 4,075 | 17,608 4,563 | 3,051 | 3,804 | Fed 5339 | 28,538 15,493 | Blacksburg Transit |
| FTA 5307 ARP | | | 1,761 1,487 | | | FTA 5307 ARP | 1,761 1,487 | Blacksburg Transit |
| VW Trust | 0 | 2,527 | 3,347 | | | VW Trust | 5,874 2,527 | Blacksburg Transit |
| State | 41 | 1,048 | 6,262 2,201 | 381 | 476 | State | 8,167 4,106 | Blacksburg Transit |
| Local | 10 | 176 | 1,991 2,265 2,201 | 381 | 476 | Local | 3,024 <mark>3,298</mark> 3,23 4 | Blacksburg Transit |
| Year Total: | 259 | 7,826 | 17,924 22,010 | 3,813 3,814 | 4,756 | Total Funds: | 34,319 38,405 | Blacksburg Transit |
| Description: | adjusts FY 21 fundin | g and totals, and mo | 1. Amendment # 2 wa oved funding from Flex totals. Amendment # | xible STP to Fed 533 | 9 for FY21-FY24. Ar | nendment # 3 add | ds in | |

| STIP ID: | BBT0010 | Title: Eng. Design / Multi- Modal Transf | | Recipient: | Blacksburg Transit | | | |
|--------------|--|---|---|--|--------------------------------|--------------------|---------|--------------------|
| Flexible STP | | 4,800 | | | | Flexible STP | 4,800 | Blacksburg Transit |
| | | | | | | | | Diacksburg Transit |
| FTA 5339 | | | | | | FTA 5339 | | |
| | | | | | | | | Blacksburg Transit |
| FTA ARP | | | | | | FTA ARP | | |
| | | | | | | | | Blacksburg Transit |
| | | 600 | | | | | 600 | |
| State | | | | | | State | | Blacksburg Transit |
| | | 600 | | | | | 600 | |
| Local | | | | | | Local | | Blacksburg Transit |
| | | 6,000 | | | | | 6,000 | |
| Year Total: | | | - | - | - | Total Funds: | | Blacksburg Transit |
| Description: | Amendment # 1 add anticipated). Amend | ds funding in FY21. 1 Iment #3 added in FT | 1/5/20. Carryover FY A 5339 and ARP line | 18 funds stay in FY2 ² es with no additional f | 1 per DRPT (no futu unding. | re Flexible STP fu | nds are | |

| | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 2021 | -2024 | |
|---------------------------------|------------------|---|--|----------------------------|---------------------------------|--|---|--|
| STIP ID: | BBT0016 | Title: Expansion Rol | ling Stock | Recipient: | Blacksburg Transit | | | |
| Flexible STP | 112 | 0 | 0 | 1,731 | 1,363 | Flexible STP | 0 3,094 | Blacksburg Transit |
| FTA 5339 | 22 | 0.444 | 9 | 1,731 | 1,363 | | 3,094 3,208 | Blacksburg Transit |
| FTA ARP | | 0 114 | 0 | ₩ | Ψ | FTA 5339 FTA ARP | | Blacksburg Transit |
| State | 6 | 0 160 | 0 | 216 | 170 | State | - 386 546 | Blacksburg Transit |
| Local | - | 0 12 | 0 | 216 | | Local | 386 398 | Blacksburg Transit |
| Year Total: | 140 | <mark>0 286</mark> | 0 | 2,163 2,16 4 | | Total Funds: | 3,866 4,152 | Blacksburg Transit |
| | | i i z i z i z i i z i z i z i z i z i z | or remaining remo | ved - project delayed | • | | | |
| STIP ID: | BBT0017 | | | | Blacksburg | | | |
| STIP ID: Flexible STP | | Title: Passenger Sho | elters | Recipient: | Blacksburg Transit | Flexible STP | 19 90 | Blacksburg Transit |
| Flexible STP FTA 5339 | | | elters | | Blacksburg Transit | FTA 5339 | 90 54 | Blacksburg Transit Blacksburg Transit |
| Flexible STP | | Title: Passenger Sho | elters 19 42 | Recipient: | Blacksburg Transit | | 90 54 | · |
| Flexible STP FTA 5339 | | Title: Passenger Sho | elters 19 42 | Recipient: | Blacksburg Transit | FTA 5339 | 90 54 | Blacksburg Transit |
| Flexible STP FTA 5339 FTA ARP | | Title: Passenger Sho | elters 19 42 42 45 15 | Recipient: | Blacksburg Transit | FTA 5339 FTA ARP | 90 54 115 18 24 8 13 | Blacksburg Transit Blacksburg Transit |
| FTA 5339 FTA ARP State | BBT0017 0 0 0 | Title: Passenger Sho | 4 42 42 42 42 42 42 43 5 15 24 52 | Recipient: 25 25 3 3 3 | Blacksburg Transit 23 23 23 | FTA 5339 FTA ARP State Local Total Funds: | 90 54 115 18 24 8 13 99 152 | Blacksburg Transit Blacksburg Transit Blacksburg Transit |

| | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 2021-2 | 2024 | |
|--|--|---|--|--|-------------------------------|---|--|--|
| STIP ID: | | BBT0020 | Title: ADP Hardware Replacement and E | e (Technology xpansion) | Recipient: | Blacksburg Transit | | |
| Flexible STP | 104 | 0 | 84 | 29 | 91 | Flexible STP | | Blacksburg Transit |
| FTA 5339 | | 7 | 0 84 | 29 | 91 | FTA 5339 | 127 211 | Blacksburg Transit |
| FTA ARP | | | 0 58 | | | FTA ARP | 0 58 | Blacksburg Transit |
| State | 21 | 10 | 193 | 4 | 11 | State | 218 36 | Blacksburg Transit |
| Local | 5 | | 91 33 | | | 3.00 | 107 49 | Blacksburg Transit |
| | | 1 | 11 284 | 4 | 11 | Local | 27 | - |
| Year Total: | 130 | 18 | 106 | 37 | 113 114 | Total Funds: | 452 27 4 | Blacksburg Transit |
| Description: | Amendment # 2 add | us FTA 3339 luliulily | nd increase lead | iding and totals. Ame | mamont // o dado / ii · | a randing and adjace | เบเลเร. | |
| · | Amendment # 2 add Amendment # 4 ren | noves ARP funding a | nd increase local. Title: ADP | ruing and totals. And | | Blacksburg | iolais. | |
| Description: STIP ID: | Amendment # 2 add Amendment # 4 ren | noves ARP funding an | nd increase local. | Iding and totals. And | Recipient: | | lotais. | |
| · | Amendment # 2 add Amendment # 4 ren | noves ARP funding al | nd increase local. Title: ADP Software | 480 | | Blacksburg | 0 | Blacksburg Transit |
| STIP ID: Flexible STP FTA 5339 | Amendment # 4 ren | noves ARP funding al | Title: ADP Software 400 | | Recipient: | Blacksburg Transit Flexible STP FTA 5339 | 0 660 4,360 | _ |
| STIP ID: Flexible STP | Amendment # 4 ren | BBT0021 | Title: ADP Software 400 0 400 0 82 | 4 80 180 | Recipient: | Blacksburg Transit Flexible STP | 0 660 1,360 0 82 | Blacksburg Transit |
| STIP ID: Flexible STP FTA 5339 | Amendment # 4 ren | BBT0021 460 80 | Title: ADP Software 400 0 400 0 82 274 50 | 4 80 180 | Recipient: | Blacksburg Transit Flexible STP FTA 5339 | 0 660 1,360 0 82 496 272 | Blacksburg Transit |
| STIP ID: Flexible STP FTA 5339 FTA ARP | Amendment # 4 ren | BBT0021 460 80 | Title: ADP Software 400 0 400 0 82 274 50 129 47 | 480 180 480 | Recipient: 400 400 50 | Blacksburg Transit Flexible STP FTA 5339 FTA ARP State | 0 660 1,360 0 82 496 272 247 165 | Blacksburg Transit Blacksburg Transit Blacksburg Transit Blacksburg Transit Blacksburg Transit |
| STIP ID: Flexible STP FTA 5339 FTA ARP State Local | 292 58 | BBT0021 460 80 112 | Title: ADP Software 400 0 400 0 82 274 50 47 50 403 | 480 180 480 60 60 300 | Recipient: 400 400 50 | Blacksburg Transit Flexible STP FTA 5339 FTA ARP State Local | 0 660 1,360 0 82 496 272 247 165 168 1,403 | Blacksburg Transit Blacksburg Transit Blacksburg Transit Blacksburg Transit |
| STIP ID: Flexible STP FTA 5339 FTA ARP State | 292 292 365 Amendment # 2 add | BBT0021 460 80 112 | Title: ADP Software 400 0 400 0 82 274 50 129 47 50 403 500 and adjusts FY 21 fur | 480 180 480 60 60 300 600 | Recipient: 400 400 50 500 | Blacksburg Transit Flexible STP FTA 5339 FTA ARP State Local Total Funds: | 0 660 4,360 0 82 496 272 247 165 1,403 1,800 | Blacksburg Transit Blacksburg Transit Blacksburg Transit |
| STIP ID: Flexible STP FTA 5339 FTA ARP State Local Year Total: | 292 292 365 Amendment # 2 add | BBT0021 460 80 112 8 200 ds FTA 5339 funding | Title: ADP Software 400 0 400 0 82 274 50 129 47 50 403 500 and adjusts FY 21 fur | 480 180 480 60 300 600 ading and totals. Ame | Recipient: 400 400 50 500 | Blacksburg Transit Flexible STP FTA 5339 FTA ARP State Local Total Funds: | 0 660 4,360 0 82 496 272 247 165 1,403 1,800 | Blacksburg Transit Blacksburg Transit Blacksburg Transit Blacksburg Transit |

| | | | 0 | | | | 251 | |
|--------------|-------------------|---------------------|-----------------------|------------------------------------|---------------------|------------------|----------------|--------------------|
| FTA 5339 | | 64 | 306 | 187 | 0 | FTA 5339 | 557 | Blacksburg Transit |
| FTA ARP | | | 0 | | | FTA ARP | 0 | _ |
| | | | 18 | | | | 18 | Blacksburg Transit |
| | | | | | | | 98 | |
| State | 6 | | 59 | | | | 151 | Blacksburg Transit |
| | | 16 | 38 | 23 | 0 | State | 83 | |
| | | | | | | | 67 | |
| Local | 1 | | 28 | | | | 49 | Blacksburg Transit |
| | | | 10 | | | | 67 | |
| | | 16 | 38 | 23 | 0 | Local | 78 | |
| | | | | | | | 416 | |
| Year Total: | 35 | 96 | 87 | | | | 775 | Blacksburg Transit |
| | | 160 | | | | Total Funds: | 810 | |
| Description: | Amendment # 2 add | ds FTA 5339 funding | and adjusts FY 21 fur | nding and totals. <mark>Ame</mark> | endment # 3 adds AF | RP funding and a | djust totals. | |
| | Amendment # 4 rer | noves ARP and incre | ase local. | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 20 | 021-2024 | |
|---------------------------|-----------------------|--|---|--|------------------------|---|--|---|
| STIP ID: | BBT0028 | Title: Radios | | Recipient: | Blacksburg Transi | t . | | |
| Flexible STP | 7 | 12 | 14 | Ð | - 10 | Flexible STP | 0 | Blacksburg Transit |
| FTA 5339 | | 6 | <mark>0</mark> 14 | 9 | 10 | FTA 5339 | 25 39 | Blacksburg Transit |
| FTA ARP | | | | | | FTA ARP | | Blacksburg Transit |
| State | 1 | 8 | 0 2 | 1 | 1 | State | 10 12 3 | Blacksburg Transit |
| Local | | 1 15 | 2 | 1 | 1 | Local | 5 38 | Blacksburg Transit |
| Year Total: Description: | 8 | 14 | | 11 | 12 | Total Funds: | 56 | Blacksburg Transit |
| · | | | • | | • | | project. | |
| STIP ID: | BBT0029 | Title: Shop Equipme | ent | Recipient: | Blacksburg Transi | t | | |
| Flexible STP | 96 | 0 | 143 | 160 | 180 | Flexible STP | 0 | Blacksburg Transit |
| | | | \sim | | | | | |
| FTA 5339 | | 25 | 143 | 160 | 180 | FTA 5339 | 365 508 | Blacksburg Transit |
| FTA 5339 FTA ARP | | 25 | 0 38 | 160 | 180 | FTA 5339 FTA ARP | 508 0 38 | |
| | 19 | | 0 <mark>38</mark> 154 128 | | | FTA ARP | 508 0 38 233 207 | Blacksburg Transit |
| FTA ARP | 19 | | 0 38 154 128 48 72 22 | 20 | 23 | FTA ARP State | 508 0 38 233 207 97 118 68 | Blacksburg Transit |
| FTA ARP State | 19 5 120 | 36 | 0 38 154 128 18 72 22 18 226 188 | 20 20 | 23 | State Local | 508 0 38 233 207 97 118 68 64 716 678 | Blacksburg Transit Blacksburg Transit Blacksburg Transit Blacksburg Transit |
| State Local | 120 Amendment # 2 add | 36 64 ds FTA 5339 funding | 0 38 154 128 18 72 22 18 | 20 20 200 ading and totals. Amo | 23 23 226 | State Local Total Funds: | 508 0 38 233 207 97 118 68 64 716 678 669 | Blacksburg Transit Blacksburg Transit |
| State Local Year Total: | 120 Amendment # 2 add | 36 64 ds FTA 5339 funding | 0 38 154 428 48 72 22 48 226 488 479 and adjusts FY 21 fur | 20 20 200 ading and totals. Amo | 23 23 226 | State Local Total Funds: P funding and ad | 508 0 38 233 207 97 118 68 64 716 678 669 | Blacksburg Transit Blacksburg Transit Blacksburg Transit |

| | | | | | | | | Blacksburg Transit |
|-------------|--------------------|------------------------|----------------------|--------------------------|-----------------------|--------------|---|--------------------|
| | | | | | | | | |
| | | | | | | | | Blacksburg Transit |
| | | | | | | _ | | |
| | | | | | | State | - | Blacksburg Transit |
| | | | | | | | | |
| | | | | | | Local | - | Blacksburg Transit |
| | | | | | | | | |
| Year Total: | | | - | - | - | Total Funds: | - | Blacksburg Transit |
| | Please recommend t | hat this project be de | leted. We do not exp | ect this project to have | ve any more capital e | xpenditures. | | |

| | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 2021-2024 | |
|--------------------------|-------------------|------------------------|-----------------------|--------------------|------------------------|--------------------------|---|
| STIP ID: | BBT0036 | Title: NRV Bikeshare | | Recipient: | Blacksburg Trans | t | _ |
| | BB10030 | Tille. NITV Dikesilale | 5 | Recipient. | Diacksburg Trails | | 4 |
| Flexible STP FTA 5339 | 0 | 0 | 0 | 0 | 0 | Flexible STP FTA 5339 | O Blacksburg Transit |
| | | | | | | | Blacksburg Transit |
| FTA ARP | | | | | | FTA ARP | Blacksburg Transit |
| | | | | | | _ | |
| State | 16 | 20 | 0 | 0 | 0 | State 2 | Blacksburg Transit |
| Local | 16 | 20 | 0 | 0 | 0 | Local 2 | Blacksburg Transit |
| Year Total: | 32 | 40 | 0 | 0 | 0 | Total Funds: 4 | Blacksburg Transit |
| Description: | Amendment # 2 add | ls previous funding. A | mendment #3 added | in FTA 5339 and AF | RP lines with no addit | ional funding. | |
| STIP ID: | BBT0037 | Title: Surveillance/S | ecurity Equipment | Recipient: | Blacksburg Trans | t | |
| Flexible STP | 77 | 0 | 0 | 0 | 0 | Flexible STP 7 | 0 7 Blacksburg Transit |
| FTA 5339 | 11 | O O | O | 0 | 0 | FTA 5339 | 7 |
| FTA ARP | | | | | | FTA ARP | Blacksburg Transit |
| TIAAK | | | | | | TIAAN | Blacksburg Transit |
| State | 15 | 0 | 0 | 0 | 0 | State | O Blacksburg Transit |
| Local | 4 | 0 | 0 | 0 | 0 | Local | 0 5 Blacksburg Transit |
| Year Total: | 96 | 0 | 0 | 0 | 0 | | 0 4 Blacksburg Transit |
| Description: | | ed in FTA 5339 and A | ARP lines with no add | | | rotarr unus. | Blacksburg Hallsit |
| | | | | | | | |
| STIP ID: | BBT0038 | Title: Fare Automatic | on System | Recipient: | Blacksburg Transi | t | ı |
| Flexible STP | 24 | 0 | 0 160 | 0 | 0 | Flexible STP 46 | 0 Blacksburg Transit |
| FTA 5339 | 27 | | 100 | <u> </u> | 0 | FTA 5339 | |
| FTA ARP | | | | | | FTA ARP | Blacksburg Transit |
| 1 17 (7)() | | | - | | | 1 17 (7 (1 (1 | Blacksburg Transit |
| State | 5 | 0 | 0 20 | 0 | 0 | State 2 | <mark>0</mark> <mark>⊕</mark> Blacksburg Transit |
| Local | 1 | 0 | 0 20 | 0 | 0 | Local 2 | 0 Blacksburg Transit |

| Year Total: | 30 | 0 | 0 200 | 0 | 0 | Total Funds: | 0 200 | Blacksburg Transit |
|--------------|--------------------|----------------------|-------------------------|---------------------|---|--------------|---------------------|--------------------|
| Description: | Amendment # 2 adju | ists totals. Amendme | ent # 3 adjust for unfu | nded FY 22 project. | | | | |
| | | | | | | | | |

| | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 2021 | 1-2024 | |
|---|-------------------|--|---|-----------------------------------|--|---|--|--|
| STIP ID: | BBT0039 | Title: Rehab/Renova Bldg. | ation of Admin | Recipient: | Blacksburg Transi | t | | |
| Flexible STP | 144 | -0 | 0 | 0 | 0 | Flexible STP | 0 | Blacksburg Trans |
| FTA 5339 | | | | | | FTA 5339 | | Blacksburg Trans |
| FTA ARP | | _ | | | | FTA ARP | | Blacksburg Trans |
| State | 29 | 0 | 0 | 0 | 0 | State | 0 | Blacksburg Trans |
| Local | 7 | 0 | 0 | 0 | 0 | Local | 0 | Blacksburg Trans |
| Year Total: | 180 | 0 | 0 | 0 | <u> </u> | Total Funds: | 0 | Blacksburg Trans |
| Description: | | noves all FY 21 fundir e item (with no fundin | ng (construction is covered). | ered in BBT0040 an | d design is covered i | n BBT0041). Amend | dment #3 | - |
| | | | | | | | | |
| STIP ID: | BBT0040 | Title: Construction A Facility | Admin./Maintenance | Recipient: | Blacksburg Transi | t | | |
| | BBT0040 | | Admin./Maintenance | Recipient: | Blacksburg Transi | | 0 | Blacksburg Trans |
| STIP ID: Flexible STP FTA 5339 | | Facility 0 | 0 | Recipient: | Blacksburg Transi | Flexible STP | 0 | - |
| Flexible STP | | | 5,471 204 | Recipient: 0 | Blacksburg Transi | Flexible STP FTA 5307 | 7,816 204 | Blacksburg Trans |
| Flexible STP FTA 5339 FTA 5307 ARP | | 0 2,345 | 5,471 204 4,887 | 0 | Blacksburg Transi | Flexible STP FTA 5307 ARP | 204 1,887 | Blacksburg Transi |
| Flexible STP FTA 5339 | | Facility 0 | 5,471 204 | Recipient: 0 | Blacksburg Transi | Flexible STP FTA 5307 | 204 | Blacksburg Transi Blacksburg Transi Blacksburg Trans |
| Flexible STP FTA 5339 FTA 5307 ARP | | 0 2,345 | 0 5,471 204 1,887 1,094 324 274 | 0 | Blacksburg Transi | Flexible STP FTA 5307 ARP | 204 1,887 1,563 441 391 | Blacksburg Transi Blacksburg Transi Blacksburg Transi Blacksburg Transi |
| Flexible STP FTA 5339 FTA 5307 ARP State | | 2,345 469 | 0 5,471 204 1,887 1,094 324 274 7,093 8,726 | 0 | 0 | Flexible STP FTA 5307 ARP State Local | 1,563 441 391 10,024 11,657 | Blacksburg Transi Blacksburg Transi Blacksburg Transi Blacksburg Transi |
| Flexible STP FTA 5339 FTA 5307 ARP State Local | Amendment # 2 ren | 9 2,345 469 117 2,931 noves Flexible STP fu | 1,094 324 274 7,093 | 0 0 0 funding and adjust | 0 0 0 0 s FY 21 and FY22 fu | Flexible STP FTA 5307 ARP State Local Total Funds: Inding and totals. Am | 1,563 441 391 10,024 11,657 9,770 | Blacksburg Transi Blacksburg Transi Blacksburg Transi Blacksburg Transi |
| Flexible STP FTA 5339 FTA 5307 ARP State Local Year Total: | Amendment # 2 ren | 9 2,345 469 117 2,931 noves Flexible STP fu | 5,471 204 1,887 1,094 324 274 7,093 8,726 6,839 Inding, adds FTA 5339 | 0 0 0 funding and adjust | 0 0 0 s FY 21 and FY22 fu | Flexible STP FTA 5307 ARP State Local Total Funds: Inding and totals. Am | 1,563 441 391 10,024 11,657 9,770 | Blacksburg Transi Blacksburg Transi Blacksburg Transi Blacksburg Transi Blacksburg Transi Blacksburg Transi |
| Flexible STP FTA 5339 FTA 5307 ARP State Local Year Total: Description: | Amendment # 2 ren | 9 2,345 469 117 2,931 noves Flexible STP fu | 5,471 204 1,887 1,094 324 274 7,093 8,726 6,839 Inding, adds FTA 5339 endment # 4 removes | 0 0 0 funding and adjust | 0 0 0 s FY 21 and FY22 funcreases local & proje Blacksburg Transit | Flexible STP FTA 5307 ARP State Local Total Funds: Inding and totals. Am | 1,563 441 391 10,024 11,657 9,770 | Blacksburg Trans Blacksburg Trans Blacksburg Trans Blacksburg Trans |

| FTA 5339 | | | | | | FTA 5339 | | Blacksburg Transit |
|--------------|--------------------|----------------------|---------------------|--------------------|----------------------------|----------|---|--|
| FTA ARP | | | | | | FTA ARP | | B |
| | | 0 | 0 | 0 | 0 | | | Blacksburg Transit Blacksburg Transit |
| State | 80 | | | | | State | 0 | · · |
| | | | 0 | 0 | 0 | | | Blacksburg Transit |
| Local | 20 | 0 | | | | Local | 0 | |
| | | | 0 | 0 | 0 | | 0 | Blacksburg Transit |
| Year Total: | 500 | | | | | l Funds: | | |
| | Amendment # 2 remo | oves FY 21 funding a | nd totals. Amendmen | t #3 added FTA ARP | line item (with no funding | ı). | | |
| Description: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| OTID ID. | DDT0040 | T:41 O41 E14:- | D O. Dt. | D!! | Discharge Torus | 4 | | ì |
|---------------------------------|---------------------------------------|---------------------------------|--|-------------------------|--------------------------------|--|---|---|
| STIP ID: | BBT0042 | Title: Other-Electric Charger | Bus On-Route | Recipient: | Blacksburg Transi | • | | |
| Flexible STP | 152 | 0 | 580 | 0 | 0 | Flexible STP | 0 | Blacksburg Trans |
| FTA 5339 | 240 | 29 | 587 580 | | | FTA 5339 | 616 609 | |
| VW Trust | 0 | 263 | 1,719 0 | 0 | 0 | VW Trust | 1,982 263 | Blacksburg Trans |
| FTA ARP | | | 0 1,136 | | | FTA ARP | 0 1,136 | Blacksburg Trans |
| State | 78 | 6 | 490 73 | 0 | 0 | State | 496 79 | Blacksburg Trans |
| Local | 20 | 2 | 296 73 | 0 | 0 | Local | 298 75 | Blacksburg Trans |
| Year Total: | 490 | 300 | 3,092 4,228 726 | 0 | 0 | Total Funds: | 3,392 4, 528 1,026 | Blacksburg Trans |
| Description: | Amendment # 2 mg | ves funds to BBT002. | adjusts previous fund | line EV 04 formaline | and tatala Amandma | -+ # 0 - dd- ADD | LVANT | _ |
| | funding and adjusts | totals. Amendment # | 4 removes ARP and a | adjust total. | and totals. Amendme | nt#3 adds ARP | and VW Irust | |
| | funding and adjusts Previous Funding | FY 2021 | 4 removes ARP and a | FY 2023 | FY 2024 | Total FY 2 | | |
| STIP ID: | funding and adjusts | totals. Amendment # | 4 removes ARP and a | adjust total. | | Total FY 2 | | |
| | funding and adjusts Previous Funding | FY 2021 Title: Infrastructure: | FY 2022 Bus Pull-Offs | FY 2023 Recipient: | FY 2024 Blacksburg Transi | Total FY 2 | 2021-2024 | Blacksburg Tran |
| Flexible STP | funding and adjusts Previous Funding | FY 2021 Title: Infrastructure: | FY 2022 Bus Pull-Offs 60- | FY 2023 Recipient: | FY 2024 Blacksburg Transi | Total FY 2 t Flexible STP | 0 163 223 | |
| Flexible STP FTA 5339 | funding and adjusts Previous Funding | FY 2021 Title: Infrastructure: | FY 2022 Bus Pull-Offs 60- 0 60- 0 | FY 2023 Recipient: | FY 2024 Blacksburg Transi | Total FY 2 t Flexible STP FTA 5339 | 0 163 223 35 | Blacksburg Tran |
| | funding and adjusts Previous Funding | FY 2021 Title: Infrastructure: | FY 2022 Bus Pull-Offs 60- 0 60- 0 15 51 8- | FY 2023 Recipient: | FY 2024 Blacksburg Transi | Total FY 2 t Flexible STP | 0 163 223 35 0 45 116 73 | Blacksburg Tran Blacksburg Tran Blacksburg Tran Blacksburg Tran |
| FIEXIBLE STP FTA 5339 FTA ARP | funding and adjusts Previous Funding | FY 2021 Title: Infrastructure: | FY 2022 Bus Pull-Offs 60- 0 60- 0 15 51 | FY 2023 Recipient: 64 | FY 2024 Blacksburg Transi 64 | Total FY 2 t Flexible STP FTA 5339 FTA ARP | 0 163 223 35 0 45 | Blacksburg Trar |

Amendment # 2 adds FTA 5339 funding and adjusts FY 21 funding and totals. Amendment # 3 adds ARP funding and adjust totals. Amendment # 4 remove ARP and increase local.

322

323

Blacksburg Transit

75 76 75

Year Total:

Description:

| | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 2 | 2021-2024 | |
|--------------|-------------------|--------------------------------|-------------------------------------|---------------------|-----------------------|--------------|-----------|--------------------|
| | | | | | | | | |
| STIP ID: | BBT0044 | Title: Other-Building Fixtures | g Facility Items and | Recipient: | Blacksburg Trans | it | | |
| Flexible STP | | 0 | 0 | 0 | 0 | Flexible STP | 0 | Blacksburg Transit |
| FTA 5339 | | | | | | FTA 5339 | | Blacksburg Transit |
| FTA ARP | | | | | | FTA ARP | | Blacksburg Transit |
| State | | 0 | 0 | 0 | 0 | State | 0 | Blacksburg Transit |
| Local | | 0 | 0 | 0 | 0 | Local | 0 | Blacksburg Transit |
| Year Total: | | 0 | 0 | 0 | 0 | Total Funds: | 0 | Blacksburg Transit |
| Description: | Amendment # 2 rer | noves all FY 21 fundiı | ng and totals. <mark>Amend</mark> i | ment #3 added FTA . | ARP line item (with n | o funding). | | |

| STIP ID: | CRAD001 | Title: Operating Ass | sistance | Recipient: | City of Radford | | | |
|----------------------|---------------------------|---------------------------|----------------|------------------------|-----------------|----------------------|---|-----------|
| FTA 5307 | 503 | 513 | 521 523 | 503 534 | 545 | FTA 5307 | 2,082 2,113 2,115 | City of R |
| FTA 5311 | | | | | | FTA 5311 | - | City of R |
| CARES/CRRSAA/AR P | 1,622 | 1,283 | 1,255 | | | CARES/CRRSA A/ARP | 2,538 1,283 | |
| State | 374 | 381 | 402 389 | 521 397 | 405 | State | 1,709 1,585 1,572 | City of R |
| Local | 695 | 734 | 758 | 1,476 781 | 805 | Local | 3,015 2,320 3,078 | City of F |
| Revenues | 30 | 37 | 37 | 37 | 37 | Revenues | 74 111 148 | City of F |
| Year Total: | 3,224 1,602 | 2,948 1,665 | 2,178 1,707 | 2,500 1,749 | 1,792 | Total Funds: | 9,418 8,667 8,196 | City of F |

ity of Radford

| | Amendment # 2 adju # 4 adjusts funding fo | | dds ARP grant. <mark>Ame</mark> r | ndment # 3 adds and | modifies funding in FY | 22 and the totals | s. Amendment | |
|-------------|--|-----------------------|-----------------------------------|---------------------|-------------------------|-------------------|-------------------------|-----------------|
| STIP ID: | CRAD004 | Title: Replacement | Rolling Stock | Recipient: | City of Radford | | | |
| FTA 5339 | | 408 | 432 | 139 | | FTA 5339 | 979840 | City of Radford |
| State | | 571 | 86 | 339 | | State | 996 657 | City of Radford |
| Local | 42 | 42 | 22 | 20 | | Local | 84 | City of Radford |
| | | | | | | | 5 4 | |
| Year Total: | | 1,021 | 540 | 498 | | Total Funds: | 2,059 1,56 1 | City of Radford |
| | Amendment # 2 adju | sts totals column; mo | ved previous funding | to FY21. Amendmen | t # 4 adjusts funding b | y adding funds i | n FY23. | |

| | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 2 | 2021-2024 | |
|----------------------|--------------------|----------------------------------|--|-----------------------------|------------------------|----------------------|-----------------------------|-----------------|
| | | | | | | | | |
| STIP ID: | CRAD005 | Title: Purchase Sup | port Vehicles | Recipient: | City of Radford | | | |
| Flexible STP | | | 8 | 28 | 28 | Flexible STP | 36 | City of Radfor |
| State | | | 1 | 5 | 5 | State | 6 | City of Radfor |
| Local | | | 1 | 4 | 1 | Local | 2 | City of Radfor |
| Year Total: | - | | 10 | 34 | 34 | Total Funds: | 44 | City of Radfor |
| Description: | Hand Held Radio, I | T. Amendment # 4 m | oves funding from F | Y23 to FY24. | | | | |
| STIP ID: | CRAD006 | Title: Engineering D Facility | esign Transit | Recipient: | City of Radford | | | |
| Flexible STP | | 480 | - | 9,600 | | Flexible STP | 10,080 | City of Radford |
| State | | 96 | - | 1,920 | | State | 2,016 | City of Radfor |
| Local | | 24 | - | 480 | | Local | 504 | City of Radford |
| Year Total: | - | 576 600 | - | 11,520 12,000 | | Total Funds: | 12,096 12,600 | City of Radford |
| Description: | Amendment # 4 mov | es local funding to F\ | | | | | | |
| STIP ID: | CRAD007 | Title: Purchase Rou | ite Signage | Recipient: | City of Radford | | | |
| Flexible STP | | | | | | Flexible STP | | City of Radfor |
| State | | | | | | State | | City of Radfor |
| Local | | | | | | Local | | City of Radfor |
| Year Total: | | | | | | Total Funds: | | City of Radford |
| Description: | | | | | | | | |
| STIP ID: | CRAD008 | Title: Purchase Sho | p Equipment | Recipient: | City of Radford | | | |
| Flexible STP | | | | 9,800 | <i>,</i> | Flexible STP | 9,800 | City of Radford |
| CARES/CRRSAA/A RP | 20 | | | | | CARES/CRRS AA/ARP | | - |
| State | | | | 23,800 | | State | 23,800 | City of Radford |
| Local | | | | 1,400 | | Local | 1,400 | City of Radfor |
| Year Total: | 20 | | | 35,000 | | Total Funds: | 35,000 | City of Radfor |
| Description: | | | A funding for 4-Post Li by adding funds in FY | ft Jacks for FY20. No e 23. | effect on FY21-FY24 to | tals. Amendment | # 1 adds funding | |

| | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 20 | 021-2024 | |
|--------------|------------------------------|--------------------------------|-----------------------|--------------------|---------------------------|------------------|--------------------------------|--------------------|
| STIP ID: | CRAD010 | Title: Purchase Expan | sion Vehicles | Recipient: | City of Radford | | | |
| Flexible STP | | | - | | | Flexible STP | - | City of Radfo |
| State | | | - | | | State | - | City of Radfo |
| Local | | | _ | | | Local | - | City of Radfo |
| Year Total: | - | | _ | - | - | Total Funds: | - | City of Radfo |
| Description: | | | | | | | | |
| STIP ID: | CRAD012 | Title: Purchase Spare | Parts | Recipient: | City of Radford | | | |
| Flexible STP | | | - | | | Flexible STP | | City of Radfor |
| State | | | - | | | State | | City of Radfo |
| Local | | | - | | | Local | | City of Radfo |
| Year Total: | - | - | - | | - | Total Funds: | | City of Radfo |
| Description: | | | | | | | | |
| STIP ID: | NRVC001 | Title: Paratransit Vehicles | | Recipient: | New River Valley | / Community So | ervices | |
| FTA 5310 | | 192 184 | 250 138 | 242 | 138 | FTA 5310 | 822 <mark>710</mark> 702 | New River Va CC |
| State | | - | - | - | - | State | - | New River Va |
| Local | | 48 46 | 34 | 61 | 34 | Local | 177 175 | New River Va CC |
| Year Total: | - | 240 230 | 284 172 | 303 | 172 | Total Funds: | 999 887 877 | New River Va CC |
| Description: | Amendment # 3 funding \$112. | increases total funding | \$10K (increase FT | A 5310 \$8K, local | \$2k). Amendment : | # 4 increases FY | | |

| | | Title: CADD Hardware & | | | | | |
|--------------|-------------------|---------------------------|---------------------|------------------------|-------------------------|-----------------|-------|
| STIP ID: | NRVC002 | Software | | Recipient: | New River Valley C | community Ser | vices |
| FTA 5310 | | | | | | FTA 5310 | |
| State | | | | | | State | |
| Local | | | | | | Local | |
| Year Total: | - | | | | | Total Funds: | |
| Description: | Amendment # 1 - F | Remove FY21 funding of | f \$96K (remove FTA | \ 5310 \$77K, local \$ | \$19K). Project not app | proved by DRP | Γ. |

| Blacksburg Transit | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 202 | 21-2024 |
|-----------------------|-------------------------|---------------------|---|--------------------------|--------------|----------------------|--|
| FTA 5307 | 1,877 | 2,174 | 1,965 2,174 2,080 | 2,211 | 2,315 | FTA 5307 | 8,865 8,874 8,778 |
| FTA 5309 | - | - | - | _ | _ | FTA 5309 | |
| FTA 5310 | - | | - | _ | _ | FTA 5310 | |
| FTA 5311 | - | | - | - | - | FTA 5311 | _ |
| FTA 5314 | - | - | - | _ | - | FTA 5314 | |
| FTA 5337 | - | - | - | _ | _ | FTA 5337 | |
| FTA 5339 | 262 | 6,672 5,891 - | 10,621 5,471 - | 5,436 - | 5,935 - | FTA 5339 | |
| FTA ARP | 0 | θ | 4,721 | 0 | 0 | FTA ARP | 4 ,721 |
| FTA ADTAP | - | | | - | - | FTA ADTAP | |
| FTA DPF | - | _ | _ | - | _ | FTA DPF | _ |
| FTA TIGER | - | | | - | _ | FTA TIGER | |
| FBD | - | - | - | - | _ | FBD | _ |
| Flexible STP | 1,644 | 4,800 4,819 | 19 19,397 | 0 5,736 | 0 5,935 | Flexible STP | 4,819 35,887 |
| CMAQ | - | - | - | - | - | CMAQ | - |
| RSTP | - | _ | _ | _ | _ | RSTP | - |
| FHWA TAP | - | - | - | - | - | FHWA TAP | - |
| TIFIA | - | | | _ | _ | TIFIA | _ |
| CARES/CRRSAA/ ARP | 6,122 | 0 107 | 1,965 | - | - | CARES/CRRSAA/ ARP | 1,965 0 6,229 |
| VW Trust | 0 | 2,790 | 5,066 | | | VW Trust | |
| State | 2,719 375 | 5,114 2,621 | 11,207 3,520 | 716 | 4,239 742 | State | 25,176 24,695 7,599 |
| Local | 4,576 104 | 3,219 951 | 8,594 8,505 | 7,085 71 6 | 7,412 742 | Local | 26,310 26,311 5,10 9 |

| Revenues | 170 | 3,281 | 168 228 | 243 | 254 | Revenues | 3,946 4,006 |
|----------|-----------------|-------|---|-----------------|-----|----------|------------------------------|
| Totals | 17,370 4,432 | - | 40,166 <mark>42,652</mark> 33,396 | 19,030 9,622 | - | _ | 107,041 109,887 75,533 |

| City of Radford | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 202 | 1-2024 |
|----------------------|------------------|--------------------|---------------------------------|-------------------------|------------|----------------------|--|
| FTA 5307 | 503 | 513 | 5 21 523 | 503 53 4 | 545 | FTA 5307 | 2,082 2,113 2,115 |
| FTA 5309 | - | - | - | - | - | FTA 5309 | - |
| FTA 5310 | - | - | - | - | - | FTA 5310 | - |
| FTA 5311 | - | - | - | - | - | FTA 5311 | - |
| FTA 5314 | - | - | - | - | - | FTA 5314 | - |
| FTA 5337 | - | - | - | - | - | FTA 5337 | - |
| FTA 5339 | | 408 | 432 | 139 | - | FTA 5339 | 979 840 |
| FTA ARP | | | | | | FTA ARP | |
| FTA ADTAP | - | - | - | - | - | FTA ADTAP | - |
| FTA DPF | - | - | - | - | - | FTA DPF | - |
| FTA TIGER | - | - | - | - | - | FTA TIGER | - |
| FBD | - | - | - | - | - | FBD | - |
| Flexible STP | - | 480 | 8 | 19,400 9,628 | 28 | Flexible STP | 19,916 10,116 |
| CMAQ | - | - | - | - | - | CMAQ | - |
| RSTP | - | - | - | - | - | RSTP | - |
| FHWA TAP | - | - | - | - | - | FHWA TAP | - |
| TIFIA | - | - | - | - | - | TIFIA | - |
| CARES/CRRSAA/ ARP | 1,642 | 1,283 | 1,255 | - | - | CARES/CRRSAA /ARP | 2,538 1,283 |
| State | 374 | 1,048 | 489 476 | 26,580 2,322 | 410 | State | 28,527 4 <mark>,264</mark> 4 <u>,251</u> |
| Local | 695 | 776 800 | 23 -0 781 | 2,896 1,262 | 806 805 | Local | 4,501 2,867 3,648 |

| Revenues | 30 | 37 | <mark>0 37</mark> | 0 37 | 37 | Revenues | 74 111 148 |
|----------|-------|---------------------------|---|-------------------|----|----------|---|
| Totals | 3,244 | 4,545 4,569 | 2,728 2,705 2,257 | 13,783 | | | 58,617 22,849 22,872 22,401 |

| New River Valley Community Services | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 20 | 21-2024 |
|---|------------------|-----------------------|-----------------------|---------|---------|---------------|---|
| FTA 5307 | - | - | - | - | - | FTA 5307 | - |
| FTA 5309 | - | - | - | - | - | FTA 5309 | - |
| FTA 5310 | - | 192 184 | 250 138 | 242 | 138 | FTA 5310 | 822 710 702 |
| FTA 5311 | - | - | - | - | - | FTA 5311 | - |
| FTA 5314 | - | - | - | - | - | FTA 5314 | - |
| FTA 5337 | - | - | - | - | - | FTA 5337 | - |
| FTA 5339 | - | - | - | - | - | FTA 5339 | - |
| FTA ADTAP | - | - | - | - | - | FTA ADTAP | - |
| FTA DPF | - | - | - | - | - | FTA DPF | - |
| FTA TIGER | - | - | - | - | - | FTA TIGER | - |
| FBD | - | - | - | - | - | FBD | - |
| Flexible STP | - | - | - | - | - | Flexible STP | - |
| CMAQ | - | - | - | - | - | CMAQ | - |
| RSTP | - | - | - | - | - | RSTP | - |
| FHWA TAP | - | - | - | - | - | FHWA TAP | - |
| TIFIA | - | - | - | - | - | TIFIA | - |
| Other Federal | - | | | - | - | Other Federal | - |
| State | - | - | - | - | - | State | - |
| Local | - | 48 46 | 34 | 61 | 34 | Local | 177 175 |
| Revenues | - | - | - | - | - | Revenues | - |
| Totals | - | 240 230 | 284 172 | 303 | 172 | | 999 887 877 |

| New River Valley MPO | Previous Funding | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Total FY 202 | 1-2024 |
|----------------------|------------------|---------------------------|--------------------------------------|---|-----------------------------|----------------------|--|
| FTA 5307 | | 2,687 | 2,486 <mark>2,695</mark> 2,603 | 2,242 2,745 | 2,860 | FTA 5307 | 10,275 10,987 10,895 |
| FTA 5309 | - | - | - | - | _ | FTA 5309 | - |
| FTA 5310 | - | 192 184 | 250 138 | 242 | 138 | FTA 5310 | 822 710 702 |
| FTA 5311 | - | - | | _ | _ | FTA 5311 | - |
| FTA 5314 | - | - | | <u>-</u> | _ | FTA 5314 | - |
| FTA 5337 | - | - | - | - | _ | FTA 5337 | - |
| FTA 5339 | 262 | 7,080 7,213 | 11,053 25,140 | 5,575 5,436 5,736 | 5,935 | FTA 5339 | 29,643 29,504 44,024 |
| FTA ADTAP | - | - | _ | | _ | FTA ADTAP | - |
| FTA DPF | - | - | - | - | - | FTA DPF | - |
| FTA TIGER | - | - | | <u>-</u> | _ | FTA TIGER | - |
| FBD | - | - | | <u>-</u> | _ | FBD | - |
| Flexible STP | 1,644 | 5,280 | 27 168 | 19,400 9,628 | 0 | Flexible STP | 24,735 14,935 15,076 |
| CMAQ | - | - | <u>-</u> | | _ | CMAQ | - |
| RSTP | - | - | - | - | - | RSTP | - |
| FHWA TAP | - | - | | _ | _ | FHWA TAP | - |
| TIFIA | - | - | - | - | _ | TIFIA | - |
| CARES/CRRSAA/ ARP | 7,764 | 1,283 6,110 | 3,220 1,255 | 0 | 0 | CARES/CRRSAA/ ARP | 4,503 2,538 6,110 |
| VW Trust | 0 | 2,790 | 5,066 | | | VW Trust | 7,856 2,790 |
| State | 3,093 | 6,162 6,401 | 11,776 7,137 | 30,635 6,377 | 4,649 4, 6 44 | State | 53,222 28,959 24,559 |
| Local | 5,271 | 4,043 4,067 | 8,651 8,629 | 10,042 | | | 30,988 29,355 |

| | | 4,068 | 9,507 | 8,408 | 8,251 | | 30,234 |
|----------|--------|--|-------------------|--------------------|------------------|----------|---|
| Revenues | 200 | 3,318 | 168 265 | 206 280 | 291 | Revenues | 3,983 4 ,057 4 ,15 4 |
| Totals | 20,614 | 32,835 <mark>32,859</mark> 38,051 | 45,529 | | 22,153 | | 166,027 133,623 138,544 |

AIRPORT

The Virginia Tech Montgomery Executive Airport (VTMEA), in Blacksburg, accommodates business and personal travel via private charter and corporate aircraft. The Federal Aviation Administration classifies it as a general aviation airport. The Virginia Tech-Montgomery Airport Authority operates the airport and is made up of representatives from Montgomery County, the Towns of Blacksburg and Christiansburg, and Virginia Tech.

Operating two runways, each 5,500 feet long and 100 feet wide, with instrument approach available on both ends (13 and 31), the airport is located approximately 1 mile from the academic region of Virginia Tech's campus, two miles from downtown Blacksburg, and four miles from Christiansburg. The Airport Capital Improvement Plan (CIP) is below.

Table 18: Airport CIP

| VTMEA Airport CIP | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|--|-------------|-------------|-------------|-------------|-------------|-----------|
| Extend Runway, Land Acquisition Phase II | \$1,150,000 | - | - | - | - | - |
| Extend Runway, Land Acquisition, Phase III | - | \$2,822,380 | - | - | - | - |
| Extend Runway, Land Acquisition, Phase IV | - | - | \$1,212,866 | - | - | - |
| Extend Runway, Land Acquisition, Phase V | - | - | - | \$2,163,418 | - | - |
| Rehabilitate Apron, Design | - | - | - | \$180,000 | - | - |
| Rehabilitate Apron, Construction | - | - | - | - | \$1,620,000 | - |
| Airport Master Plan Update | - | - | - | - | \$150,000 | - |
| Expand Apron, Design | - | - | - | - | - | \$118,750 |
| CIP Totals: | \$1,150,000 | \$2,822,380 | \$1,212,866 | \$2,343,418 | \$1,770,000 | \$118,750 |