



Roanoke Valley Transportation
PLANNING ORGANIZATION

Staffed by the
REGIONAL commission



TRANSPORTATION IMPROVEMENT PROGRAM

for the

**ROANOKE VALLEY
TRANSPORTATION PLANNING ORGANIZATION**

Federal Fiscal Years 2018-2021

APPROVED: April 27, 2017

AMENDMENT #2

**DRAFT
JUNE 15, 2018**

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DRAFT FY18-21 TIP Amendment #2 Language Inserting New Section 5.0 to Address MAP-21 Performance Measures Targets

5.0 Performance Management Targets

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

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

The table below shows the timeline of target rollout.

Rule and Effective Date(s)	Performance Measure Targets
Highway Safety Final Rule published 1/15/16. Effective date 1/14/16. RVTPO adopted PM targets 1/25/18.	1. Number of fatalities 2. Fatality rate (per 100 million VMT) 3. Number of serious injuries 4. Serious injury rate (per 100 million VMT) 5. Number of non-motorized fatalities and serious injuries.
Transit Asset Management Final Rule published 7/26/16. Effective date 10/1/16. RVTPO anticipates PM target adoption during 2018-19.	1. Percent of revenue vehicles that have met or exceeded their useful life benchmark 2. Percent of non-revenue vehicles that have met or exceeded their useful life benchmark 3. Percentage of track segments with performance restrictions 4. Percentage of facilities rated in poor condition
Highway Infrastructure Condition Final Rule published 1/18/17. Effective date 5/20/17. RVTPO anticipates PM target adoption during 2018-19.	1. Percent of pavements on the Interstate system in good condition 2. Percent of pavements on the Interstate system in poor condition 3. Percent of pavements on the non-Interstate NHS in good condition 4. Percent of pavements on the non-Interstate NHS in poor condition 5. Percent of NHS bridges classified as in good condition 6. Percent of NHS bridges classified as in poor condition
Highway System Performance Final Rule published 1/18/17. Effective date 5/20/17. RVTPO anticipates PM target adoption during 2018-19.	1. Percent of person miles traveled on the Interstate system that are reliable 2. Percent of person miles traveled on the non-Interstate NHS that are reliable 3. Percent of Interstate system mileage providing for reliable truck travel times (Truck Travel Time Reliability)



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

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

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

The Highway Safety Performance Measures and Targets were adopted on June 28, 2018 in Amendment #2 to the FY18-21 TIP. Future amendments to the TIP will be made according to the established federal timelines. Concurrent amendments to the 2040 Constrained Long-Range Multimodal Transportation Plan (CLRMTTP) have and will be made to describe, in detail, performance measures and targets and to provide a system performance report current to the time of most recent CLRMTTP adoption.

5.1 Highway Safety

The Virginia 2017-2021 Strategic Highway Safety Plan (SHSP) provides a comprehensive framework for Virginia stakeholders to address transportation-related crashes. The vision for the plan is for every road user, whether driving, walking, bicycling, or taking transit, to “Arrive Alive” at their destination. The Virginia Department of Transportation and other state safety stakeholders will accomplish this by addressing the most pressing safety issues, through a combination of safety programs and projects. Within the CLRMTTP and other short- and long-range transportation planning and programming activities, the RVTPO can apply information from the SHSP and the results of regional crash analysis to support investments that render regional and local travel safer and ultimately contribute to the “Arrive Alive” vision.

The Virginia SHSP is a data-driven plan which establishes a framework of emphasis areas, strategies, and actions to guide stakeholders toward the implementation of effective programs and projects. Key factors contributing to crashes are impaired driving, speed, occupant protection, roadway departures, intersections, young drivers, bicycles, and pedestrians. Each of these emphasis areas is supported by a range of multi-disciplinary (engineering, enforcement, education, and emergency response) strategies and actions to characterize effective solutions.

Federal legislation in 23 CFR §450.306(d)(2) requires the RVTPO to adopt or define five evidence-based safety performance measures and accompanying targets. The purpose of the targets is to help VDOT, and regional planning agencies, including the RVTPO, prioritize programs and projects that will reduce transportation-related fatalities and serious injuries. In January 2018, the RVTPO adopted VDOT’s five-year performance targets for the following five performance measures:

Performance Measure	2011-2015 Performance	Target Reduction	2013-2017 Target
Number of fatalities, 5-year rolling average	16	2% reduction	15
Rate of fatalities, 5-year rolling average	0.84	1.25% reduction	0.79
Number of serious injuries, 5-year rolling average	215	5% reduction	144
Rate of serious injuries, 5-year rolling average	11.17	11.5% reduction	7.47
Number of non-motorized fatalities and non-motorized serious injuries, 5-year rolling average	18	4% reduction	16



Strategies to meet safety performance measure targets are built into funding programs that utilize federal funds. Such programs include the Highway Safety Improvement Program (HSIP), System Management and Allocation of Resources for Transportation Safety Congestion Accessibility Land Use Economic Development Environment (SMART SCALE), and the Regional Surface Transportation Program (RSTP). The RVTPO and its member localities coordinate with the VDOT Salem District to identify improvements eligible for funding through HSIP. This includes corridor-specific and district-wide investments to deploy roadway departure countermeasures (signs, flashers, lighting, rumble strips) and traffic signal upgrades. Virginia's SMART SCALE prioritization program awards points to projects for estimated reductions in fatality and serious injury crashes. When allocating RSTP funds, the RVTPO awards points to projects that increase safety and security of the transportation system. In addition, the VDOT Construction Districts also have the flexibility to address safety considerations, such as rumble strips or striping in coordination with resurfacing projects.



The tables below list the TIP projects by locality. Note the following explanations for the project groupings:

Grouped (BR/R/R) = (Bridge Rehabilitation/Replacement/Reconstruction)

Grouped (S/ITS/OI) = (Safety/Intelligent Transportation Systems/Operational Improvements)

Grouped (TE/B/Non-T) = (Transportation Enhancement/Byway/Non-Traditional)

Grouped (Maint. & Syst. Pres.) = (Preventive Maintenance and System Preservation)

Grouped (Maint. Bridges) = (Preventive Maintenance for Bridges)

Grouped (Maint. Traf. & Safety Op) = (Maintenance of Traffic and Safety Operations)

6.1 Bedford County

Construction: BR/R/R

System	UPC	Project Name	Description	Street/Route	Estimate
Secondary	62650	Rte. 634 over Roanoke River Bridge Replacement	From 0.19 mi. West of Franklin Co. line to 0.12 mi. East of Bedford Co. line (0.300 mi.)	Route 634	\$11,970,041

Construction: SITS/OI

System	UPC	Project Name	Description	Street/Route	Estimate
Primary	107053	Rte. 24 – Bedford Co. Safety Improvements	From Rte. 886 to 0.26 mi. east of Rte. 635 (1.50 mi.)	VA Route 24	\$1,600,000
Primary	107063	Rt. 221 Bedford Co. - Bike & Ped Safety Improvements	FROM: 0.09 miles North of Route 1049 TO: 0.06 miles South of Route 621	U.S. 221	\$2,550,000
Primary	109582	Route 460 Safety Improvements	FROM: 0.49 miles East of Route 741 TO: 0.64 miles East of Route 689	U.S. 460	\$4,510,000



6.2 Botetourt County

System	UPC	Project Name	Description	Street/Route	Estimate
Interstate	75910	U.S. 11, 220, 220A Access Management Project at I-81 Exit 150	From 0.30 mi. south of U.S. 220 to 0.74 mi. north of U.S. 220 (1.0410 mi.)	I-81	\$50,185,950

Construction: BR/R/R

System	UPC	Project Name	Description	Street/Route	Estimate
Primary	77300	Rte. 11 over Tinker Creek Bridge Replacement (Str. 03166)	From 0.04 mi. north of Rte. 1039 to 0.13 mi. north of Rte. 1039 (0.09 mi.)	U.S. 11	\$5,120,000
Primary	77302	Rte. 11 over Tinker Creek Bridge Replacement (Str. 3167)	From Rte. 838 to 0.09 mi. north of Rte. 838 (0.09 mi.)	U.S. 11	\$3,992,000
Secondary	52803	Rte. 779 Intersection Improvements & Bridge over Amsterdam Creek	From 0.169 mi. east Rte. 672 east to 0.236 mi. west Rte. 672 east (0.4213 mi.)	Rte. 779	\$7,857,623
Primary	82226	Rte. 11 over Beckner Branch (STR. 03160) – Bridge Replacement	From: 0.076 mi. north of I-81 To: 0.300 mi. south of Rte. 641	U.S. 11	\$5,629,000
Secondary	90086	Rte. 738 over Glade Creek (Str. 03516 and 03517) – Bridge Replacement	From Int. of U.S. 460 to 0.339 mi. east of Int. 460 (0.1600 mi.)	Rte. 738	\$4,949,536



Construction: SITS/OI

System	UPC	Project Name	Description	Street/Route	Estimate
Interstate	104048	FY13-14 VMS Installation: I-81	From NB to MM 147.5 to SB at MM 172.0	I-81	\$608,647
Interstate	106737	#SGR FY17 SGR I-81 NB Botetourt Co. Concrete Undersealing	From MM 149.5 S. End RR Overpass to S. End of Rte. 779 Overpass (2.1 mi.)	I-81	\$4,600,000
Primary	103210	U.S. 220 Corridor – Replace 2 Narrow Structures	From 0.239 mi. N. of Rte. 43 to 0.63 mi. S. of Rte. 694 (0.931 mi.)	U.S. 220	\$8,581,000

Construction: TE/B/Non-T

System	UPC	Project Name	Description	Street/Route	Estimate
Enhancement	107521	Daleville Greenway - TAP			\$595,438
Enhancement	T21491	U.S. 220 / International Parkway Intersection Study and Design		U.S. 220 and International Parkway	\$300,000



6.3 *Montgomery County*

Construction: SITS/OI

System	UPC	Project Name	Description	Street/Route	Estimate
Interstate	92558	Rte. 603 – Ironto/Elliston Connector	From I-81 Exit 128 to Int. of U.S.11/460 (2.011 mi.)	Route 603	\$17,770,264
Primary	110624	#SGR - Route 11 over NSRR (STR. 12118) - Deck Replace	From: 1.5 mi. W. Roanoke Co. line To: 1.7 mi. W. Roanoke Co. line	U.S. 11	\$2,625,000



6.4 Roanoke County

System	UPC	Project Name	Description	Street/Route	Estimate
Interstate	110395	#HB2.FY17 I-81 Aux Ln Fr Exit 141 -143 Garvee Debt Service	I-81 NB from Exit 141 to 143	I-81	\$38,409,000
Interstate	111983	#Smart18 - 81 Sb Aux Ln Frm Exit 143-141 Garvee Debt Service	I-81 SB from Exit 143 to 141	I-81	\$39,444,000
Interstate	111373	#SMART18 – I-81 SB Auxiliary Lane from Exit 143 to 141	From: Exit 143 SB To: Exit 141 SB	I-81	\$32,168,000
Interstate	T21502	I-581 Exit 2 Interchange Study	Preliminary Engineering	I-581	\$150,000
Primary	17698	Rte. 11/460 – Widen to 4-lane w/ curb, gutter and raised median	From 0.055 mi. east of WCL Salem to 0.10 mi. west Rte. 830 (2.1880 mi.)	West Main St./U.S. 11	\$47,139,261
Primary	98220	Rte. 115, Plantation Road Corridor Improvements	From Williamson Rd (Rte. 11) to Gander Way/Friendship Ln (0.720 mi.)	Plantation Road/115	\$1,566,835
Primary	108905	#HB2.FY17 Lila Dr / Rte 115 Intersection Safety Improvements	FROM: Lila Drive TO: Route 115 (Plantation Road) (0.1000 MI)	Plantation Road/115	\$1,269,396
Primary	95812	ARRA - Roanoke 221 Reconstruct to 4 Lanes (CN Phase only)	FROM: 0.035 Km. S. Rte. 688 TO: 1.478 Km. N. Rte. 688 (1.5120 KM)	U.S. 221	\$25,332,937



Primary	96139	ARRA-C Roanoke 221 Reconstruct to 4 Lanes (CN Phase Only)	FROM: 0.035 km. S. Rte. 688 TO: 1.478 km N. Rte. 688 (1.5120 KM)	U.S. 221	\$105,024
Primary	108904	#HB2.FY17 Route 311 / Route 419 Int. Safety & Congestion Imp	FROM: Intersection of Rte 311 & Rte 419 TO: Intersection of Rte 311 & Rte 419 (0.1000 MI)	Catawba Valley Dr./Rte. 311	\$1,957,006

Construction: BR/R/R

System	UPC	Project Name	Description	Street/Route	Estimate
Primary	77305	Rte. 116 over Back Creek (Str. 14928) – Bridge Replacement	From 0.285 mi. S. Rte. 945 to 0.584 mi. S. Rte. 945	Rte. 116	\$7,213,000
Primary	82193	U.S. 220 over Back Creek (Str. 14935) – Bridge Replacement	From 0.199 mi. S. of Rte. 657 to 0.33 mi. N. of Rte. 657 (0.531 mi.)	U.S. 220	\$18,885,000
Primary	94726	U.S. 221 over Martins Creek (Str. 14945) – Bridge Replacement	From 0.01 mi. S. of Int. of Rte. 696 to 0.01 mi. N. Int. Rte. 696	U.S. 221	\$3,648,210
Secondary	110620	Rte. 760 over Roanoke River (STR. 15105) – Super Replacement	Rehab w/o added capacity. From: 0.15 mi. S. Salem City Line To: 0.00 mi. Int. Rte. 639	Route 760	\$2,281,000



Construction: SITS/OI

System	UPC	Project Name	Description	Street/Route	Estimate
Interstate	99542	I-81 Exit 140 Park and Ride Facility Expansion	From Int. Rte. 1128 and Rte. 1150 to 0.17 mi. W. of Int. Rte. 1128 and 1150 (0.17 mi.)	I-81	\$3,353,000
Interstate	108418	I-81 Install Signs with Flashers	From MM 137.72 to MM 138.18 (0.46 mi.)	I-81	\$28,280
Interstate	108906	#HB2.FY17 I-81 NB Auxiliary Lane from Exit 141 to 143	From Exit 141 NB to MM 143 NB (2.0 mi.)	I-81	\$29,830,716
Interstate	T21583	I-81 Exit 137 SB Safety Improvements	From: Beginning of I-81 Exit 137 SB Off-Ramp To: End of I-81 Exit 137 SB Off-Ramp	I-81	\$1,500,000
Primary	107054	Rte. 311 -Roanoke County Pedestrian Safety Improvements	From NCL Salem to 0.02 mi. N. of I-81 SB ramp (0.09 mi.)	Rte. 311	\$615,000
Primary	107061	#HB2 FY17 Rte. 419 Safety Improvements at Tanglewood	From Rte. 419 to Rte. 867 (0.60 mi.)	Rte. 419	\$5,853,432
Primary	107055	U.S. 11 and Rte. 117 – Roanoke County Bike & Ped Safety Improvements	From Rte. 117 to U.S. 11	Rte. 117 and U.S. 11	\$1,000,000



Primary	108882	#SMART18 – West Main Street Sidewalk Installation	From: West Salem City Limit To: 0.018 Mi. W. Int. Rte 830 (Technology Drive)	U.S. 11	\$1,037,000
Primary	111066	Pedestrian Bridge over Rte. 311	From: Route 864 To: 0.2 miles North of Route 864	Route 311	\$2,880,000
Secondary	113144	Starkey Road/Buck Mountain Road Intersection Improvements	Reconstruction w/added capacity, FROM: Starkey Road TO: Buck Mountain Road	Starkey Rd. & Buck Mountain Rd.	\$2,098,000
Interstate	113173	I-81 Exit 137 SB Safety Improvements	FROM: Beginning of I-81 Exit 137 SB Off-Ramp TO: End of I-81 Exit 137 SB Off-Ramp	I-81	\$1,500,000
Primary	111407	#SMART18 – Rte. 419 & Rte. 221 Adaptive Traffic Control	Installation of adaptive traffic control devices from U.S. 221 (Brambleton Ave.) to Rte. 419 (Electric Rd.)	Route 419	\$663,000
Primary	T21464	Pedestrian Improvements on Route 11	From: Clubhouse Drive To: 0.2 mi. South of Greenway Drive	U.S. 11	\$750,000
Primary	T21497	Route 419/U.S. 220 Diverging Diamond Interchange Study/PE	Preliminary Engineering	VA 419/U.S. 220	\$750,000



Secondary	15190	Rte. 688 - Reconstruction	From 0.056 mi. S. U.S. 221 to 0.105 mi. S. Rte. 934 (0.6566 mi.)	Rte. 688 / Cotton Hill Road	\$6,532,659
Secondary	15187	Rte. 1662 – Reconstruction and Replace Bridge over Mud Lick Creek	From Int. of Rte. 1663 to Int. of Rte. 419 (0.468 mi)	Rte. 1662 / McVitty Rd.	\$14,590,943
Secondary	15188	Rte. 1663 – Reconstruct Drainage Structure Mud Lick Creek	From S. Int. U.S. 221 to Int. of Rte. 1662 (0.283 mi.)	Rte. 1663 / Old Cave Spring Lane	\$4,714,799
Secondary	T21499	Starkey Rd./Buck Mountain Rd. Intersection Improvements	Reconstruction w/o added capacity. From: Starkey Rd. To: Buck Mountain Road	Intersection of Routes 604 & 679	\$2,098,000

Construction: TE/B/Non-T

System	UPC	Project Name	Description	Street/Route	Estimate
Enhancement	91191	Roanoke River Greenway – City of Roanoke to Blue Ridge Parkway			\$6,857,566
Enhancement	97171	#HB2.FY17 Roanoke County, RRG, Green Hill Park to Riverside Park	From Green Hill Park to Riverside Park (1.7330 mi.)		\$8,931,000
Enhancement	103607	Roanoke County – Plantation Road Streetscape Improvements	From Williamson Rd. (U.S. 11) to Gander Way/Friendship Lane (0.72 mi.)	Rte. 115 / Plantation Road	\$5,297,128



Enhancement	103495	Low Water Bridge for HRB Trail near Int. of Routes 419 & 311			\$368,630
Urban	111366	#SMART18 – Plantation Rd. Bike/Ped/Streets cape Phase II	From: Walrond Drive To: Gander Way	Route 115	\$1,752,000
Enhancement	T21498	Roanoke River Greenway through Explore Park	Construction of greenway through Explore Park	Explore Park	\$3,020,000



6.5 City of Roanoke

System	UPC	Project Name	Description	Street/Route	Estimate
Urban	688	13th Street and Hollins Road	Reconstruction w/added capacity, FROM: Jamison Ave TO: .08 Mi. N. INT. Orange Ave.	Intersection of 13th St. & Hollins Rd.	\$23,961,000
Interstate	16595	Rte. 581 – Valley View Interchange Phase II	From 0.30 mi. south Rte. 101 (Hershberger Rd.) to 1.560 mi. south Rte 101	I-581	\$60,409,490

Construction: SITS/OI

System	UPC	Project Name	Description	Street/Route	Estimate
Interstate	94089	ARRA I-581 at Elm Ave. (Design-Build)	From exit ramps accessing Elm Avenue to 0.016 mi. W. Williamson Rd. - 0.045 mi E. 4 th Street SE on Elm Avenue (0.224 mi.)	I-581	\$22,907,827
Interstate	97231	ARRA-C I-581 at Elm Avenue (Design-Build)	From exit ramps accessing Elm Avenue to 0.016 mi. W. Williamson Rd. - 0.045 mi. E. 4 th Street SE on Elm Avenue (0.224 mi.)	I-581	\$911,783
Primary	109558	Flashing Yellow Arrow Upgrade – Williamson Rd. & Airport Rd.	From Williamson Rd. to Airport Rd.	U.S. 11 / Williamson Rd.	\$16,000
Primary	109562	Flashing Yellow Arrow Upgrade – Valley View	From Valley View Blvd. NW to Valley View Ave. NW	Valley View Blvd. NW	\$23,000



Primary	109567	Flashing Yellow Arrow Upgrade – Jefferson St. & Elm Ave.	From Elm Ave. to Jefferson St.	Elm Avenue	\$24,000
Primary	109570	Orange Ave./Hollins Rd. Signal Upgrade	Int. of U.S. 460 and Route 115	U.S. 460 & Rte. 115	\$545,000
Primary	108908	#HB2.FY17 – U.S. 220 Adaptive Communications and System Project	From Valley Avenue/Southern Hills Dr. SW to Clearbrook Village Ln. (2.0 mi.)	U.S. 220 / Franklin Rd.	\$422,500
Primary	109566	Orange Ave./Blue Hills Signal Upgrade – City of Roanoke	From Orange Ave. to Blue Hills	U.S. 460 / Orange Ave.	\$16,000
Primary	109570	Orange Ave./Hollins Rd. Signal Upgrade – City of Roanoke	From U.S. 460 to Rte. 115	Orange Ave. NE	\$265,000
Secondary	109569	Flashing Yellow Arrow Upgrade – Brandon Ave. & Colonial Ave.	From Brandon Ave. to Colonial Ave.	Brandon Ave. (8029)	\$16,000
Urban	111135	Flashing Yellow Arrow - Various Locations - Roanoke City	Various	N/A	\$277,000
Urban	111137	Rectangular Rapid Flashing Beacons - Roanoke City	Various	N/A	\$108,000
Urban	111360	Franklin Road Sidewalk Improvements- Rt. 220 B- Roanoke City	bike/ped improvements, FROM: 3100 Block TO: 3700 Block	U.S. 220 Bus./Franklin Rd.	\$1,495,000



Urban	111370	#Smart18 - Hollins Rd. & Orange Ave. Intersection Improvements	Reconstruction w/added capacity FROM: Orange Ave TO: Hollins Rd	Intersection of Hollins Rd. & Orange Ave.	\$3,552,000
Urban	113324	Installation of Pedestrian Countdown Signal - Roanoke	FROM: Gainsboro Road TO: Burrell Street	From Gainsboro Rd. to Burrell St.	\$102,000

Construction: TE/B/Non-T

System	UPC	Project Name	Description	Street/Route	Estimate
Enhancement	105439	Roanoke River Greenway (Bridge St. to Aerial Way Dr.) - RSTP	From Bridge St. to Aerial Way Dr. (1.8 mi.)	Roanoke River Greenway	\$7,605,000
Enhancement	103345	RR Greenway – Bike/Ped between Vic Thomas & Ghent Hill Parks	From Vic Thomas Park to Ghent Hill Park (0.25 mi.)	Memorial Ave.	\$248,316
Enhancement	103592	Virginia Railway Station Restoration Phase 2	Virginia Railway Station		\$1,014,930
Enhancement	106265	Garden City Blvd. Bike/Ped - TAP	From Davenport Ave./Ivywood St. to Riverland Rd.	Garden City Blvd.	\$1,000,000
Enhancement	106266	ADA Bus Facilities - TAP	From Barnett Rd. (WCL) to Salem Turnpike (2.80 mi.)	Melrose Ave.	\$205,980
Miscellaneous	102856	City of Roanoke – SRTS Garden City ES- Sidewalks, etc.	From Yellow Mtn. Rd. to Ivywood St. (0.74 mi.)	Garden City Blvd.	\$507,793



Miscellaneous	105015	Downtown Roanoke Multimodal Transportation Study		Roanoke City	\$300,000
Miscellaneous	110101	Tinker Creek Trail Extension	FROM: Wise Avenue TO: Masons Mill Park	N/A	\$7,251,000
Miscellaneous	T20130	Tinker Creek Greenway Connectivity Study	Preliminary Engineering, from Roanoke City to Botetourt Co.		\$100,000
Urban	108896	#HB2.FY17 Colonial Avenue Improvements	Bike/ped facilities. From: 300 ft. beyond Winding Way Rd. SW To: Clearfield Rd. SW	Colonial Avenue	\$7,000,000
Urban	T21494	Roanoke River Greenway Bridge Across Barnhardt Creek	Bike/ped facilities, FROM: City of Roanoke TO: City of Salem	Roanoke River Greenway	\$978,000
Urban	T21496	Tinker Creek Greenway Trail Bridges	Bike/ped facilities, FROM: 13th St & Mason Mill Rd TO: 20th St & Mason Mill Rd	Tinker Creek Greenway	\$484,000
Primary	78217	Rehabilitation of Virginia Railway Station		Williamson Rd.	\$489,999
Public Transportation	T14242	Bus Replacement for SmartWay Commuter Service	From Roanoke to Blacksburg	Roanoke City	\$560,000



Urban	109288	#HB2.FY17 Transit Accessibility Improvements on Edgewood St.	From Windsor Ave. to Memorial Ave.	Edgewood St.	\$350,811
Urban	72180	City of Roanoke RR Greenway within the City of Roanoke Limits			\$2,550,285



6.6 City of Salem

Construction: SITS/OI

System	UPC	Project Name	Description	Street/Route	Estimate
Urban	8753	#HB2.FY17 U.S. 460-Widen to 3 Lanes with Bike Lane, Curb, Sidewalk	From 0.028 mi. W. of Rte. 311 (Thompson Memorial Blvd.) to 0.006 mi. W. of Brand Ave. (0.5473 mi.)	East Main Street / U.S. 460	\$15,223,263
Urban	100656	Construct Sidewalk on West Side of 419 and Connect to RRG	From existing RRG in Rotary Park to city limits (0.67 mi.)	Route 419	\$594,720

Construction: TE/B/Non-T

System	UPC	Project Name	Description	Street/Route	Estimate
Enhancement	105206	Apperson Dr./Route 11 Bridge – Sidewalk Expansion (PH4 RRG)	From E. Riverside Dr. to Electric Rd./Rte. 419 (0.06 mi.)	Apperson Dr.	\$1,230,845
Enhancement	101838	Bridge on Phase 3A-City of Salem RR Greenway	From approx. 1200 feet E. Mill Ln. to Eddy St.	Roanoke River Greenway	\$744,028
Enhancement	106268	Hanging Rock Battlefield Trail - TAP	From existing Hanging Rock Battlefield Trail to E. Main St.	Hanging Rock Battlefield Trail	\$1,333,117
Enhancement	109612	Downtown Streetscape and Intersection Improvements			\$613,000



Primary	111367	#Smart18 - Mason Creek Greenway Ph3 - 419 Multimodal Impr.	Bike/Ped facilities, FROM: Mason Creek Greenway TO: Hanging Rock Battlefield Trail	Mason Creek Greenway	\$2,610,000
Urban	111371	#Smart18 - Downtown Salem Int. & Streetscape Improvements	FROM: West Main St TO: East Main St	East and West Main Street	\$3,630,000
Urban	108899	#HB2.FY17 Multimodal Improvements Along Boulevard	From McDivitt Rd. to Salem city limit (0.75 mi.)	Boulevard	\$884,880
Urban	56409	City of Salem – Construction of 7-Mile Bicycle/Pedestrian	From western limits of Green Hill Park, Roanoke County to ECL City of Salem (7.0 mi.)		\$2,004,098
Urban	T21500	Elizabeth Greenway	Bike/ped facilities		\$1,012,000



6.7 Town of Vinton

Construction: BR/R/R

System	UPC	Project Name	Description	Street/Route	Estimate
Urban	76677	Replace Bridge and Approaches over Glade Creek	From 0.098 west of 5 th St. to 0.052 mi. east of 5 th St. (0.15 mi.)	Walnut Ave.	\$3,309,865

Construction: SITS/OI

System	UPC	Project Name	Description	Street/Route	Estimate
Urban	105213	Rte. U000-Walnut Ave. Phase I- Southwest Stripe, Crosswalks and Landscape	From 5 th St. to W. Lee Ave.	Walnut Ave.	\$88,000
Miscellaneous	111649	Walnut Ave Bike/Ped Accommodations (5th St to town Limit)	Bike/Ped facilities, FROM: 5th Street TO: Town Limits	Walnut Avenue	\$1,446,000
Urban	113322	Hardy Road/Dillon Woods Crosswalk	Bike/Ped facilities, FROM: Bypass Road TO: McDonald Street	Hardy Road	\$183,000
Urban	T21501	Walnut Avenue Bicycle and Pedestrian Accommodations	Bike/Ped facilities, FROM: W. Lee Avenue TO: 1st Street	Walnut Avenue	\$545,000

Construction: TE/B/Non-T

System	UPC	Project Name	Description	Street/Route	Estimate
Enhancement	109611	Glade Creek Greenway Phase 2			\$531,210



6.8 Salem District-wide

Construction: SITS/OI

System	UPC	Project Name	Description	Street/Route	Estimate
Interstate	103828	I-81 Pavement Rehabilitation	Various		\$9,322,269
Interstate	104046	I-77 & I-81 FY14-15 Replace Signs	From I-77 to I-81		\$873,291
Interstate	106428	I-81 and I-77 Marking Retrace Phase 1-Salem District	Various		\$121,647
Interstate	T21476	Interstate & Primary Cable Guardrail Install-Districtwide	Various locations district-wide	Various	\$500,000
Interstate	107099	District-Wide Buckle Up Signing Safety Improvement-Salem	Various		\$292,727
Interstate	108991	Systematic Roadway Departure Treatments	Various		\$2,810,000
Primary	106485	Various Routes - Install Reflective Back Plates	Various locations district-wide	Various	\$845,000
Primary	T21463	Districtwide Systemic Roadway Departure Countermeasures	Various locations district-wide	Various	\$3,028,000
Primary	T21479	Districtwide Rumble Strip Installation-Primary Routes	Various locations district-wide	Various	\$500,000
Miscellaneous	106552	Committed Safety Projects - Salem	Various		\$745,961
Miscellaneous	108517	ADA Compliance in Salem District	Various		\$100,000



Primary	108069	Safety Improvements – Yearly HSIP Open Container Funds	Various		\$2,000,000
Primary	108538	Adaptive Capable Signal Controllers - SWRO	Various		\$1,316,000
Secondary	105736	Roadway Departure Safety Countermeasures	Various		\$166,101

6.9 Statewide

Construction: SITS/OI

System	UPC	Project Name	Description	Street/Route	Estimate
Interstate	107802	Incident Management Emergency Evacuation & Detour Plans	Various		\$500,000
Miscellaneous	93174	Safety Analyst Project	Various		\$1,104,740
Miscellaneous	105481	Improvement iPEMS (Iteris Performance Measurement System)	Various		\$1,400,000



7.2 Unified Human Services Transportation Systems, Inc. (RADAR) Project Details

	Previous Funding	FY 2018	FY 2019	FY 2020	FY 2021	Total FY 2018-2021
ROANOKE VALLEY AREA METROPOLITAN PLANNING ORGANIZATION						
STIP ID:	LFS0001	Title: Paratransit Vehicles		Recipient: Lutheran Family Services of Virginia		
FTA 5310		-	64			FTA 5310 64
State						State -
Local		-	16			Local 16
Year Total:		-	80	-	-	Total Funds: 80
Description:	Amendment: Add new project and funding for FY19 \$80K: (Add FTA 5310 \$64K, local \$16K) in accordance with FY19 Draft SYIP.					
STIP ID:	RAD0001	Title: New Freedom Operating		Recipient: RADAR - UHSTS, Inc. Roanoke County		
FTA 5310		108	62	89	93	FTA 5310 352
State		86	49	71	74	State 280
Local		22	12	18	19	Local 71
Revenues		10	12	12	14	Revenues 48
Year Total:		-	226	135	190	Total Funds: 751
Description:	Adjustment: Decrease FY19 total funding \$50K (decrease FTA 5310 \$25K, decrease State \$21K, decrease local \$5K, increase revenues \$1K) in accordance with FY19 Draft SYIP.					
STIP ID:	RAD0002	Title: Paratransit Vehicles		Recipient: RADAR - UHSTS, Inc. Roanoke County		
FTA 5310		152	136	120	128	FTA 5310 536
State						State -
Local		38	34	30	32	Local 134
Year Total:		-	190	170	150	Total Funds: 670
Description:	Adjustment: Increase FY19 total funding \$40K (increase FTA 5310 \$32K, increase local \$8K) in accordance with FY19 Draft SYIP.					

