

August 18, 2016

The August meeting of the Roanoke Valley Transportation Planning Organization (TPO) Policy Board will be held as follows:

DATE:	Thursday, August 25, 2016
TIME:	1:00 p.m.
LOCATION:	Roanoke Valley-Alleghany Regional Commission office (Top Floor Conference Room), 313 Luck Ave., SW, Roanoke, VA

AGENDA

1. Call to Order, Roll Call, Introductions *Chair Johnson*
2. Approval of the July 23, 2016 Minutes, pp. 3-7 *Chair Johnson*
3. Chair’s Report, pp. 8-9 *Chair Johnson*
4. FY 2017-2022 Regional Surface Transportation Program (RSTP) Six-Year Financial Plan Recommendations from the Transportation Technical Committee (TTC), pp. 10-14
 - Policy & Procedures Overview *Mark McCaskill*
 - RSTP Recommendations from the Transportation Technical Committee (TTC) *Cody Sexton, TTC Chairman*
 - Discussion with Project Sponsors About Cost Overruns
5. Action on Supporting Resolution for Endorsement of the FY 2017-2022 RSTP Six-Year Financial Plan, p. 15 *Mark McCaskill*
6. FY’17 SMART SCALE Candidate Project Application Recommendations, pp. 16-17 *Bryan Hill*
7. Action on Supporting Resolution for Endorsement of SMART SCALE Grant Application Submissions from the Roanoke Valley TPO, pp. 18-19 *Bryan Hill*

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

8. Discussion of Financially Constrained and Vision List *Bryan Hill/Mark McCaskill*
of Projects, pp. 20-26
9. Other Business
10. Comment Period
11. Adjournment

Public Input Policy

“At the end of each Roanoke Valley TPO Policy Board meeting, the TPO Policy Board will allow for an open public forum/comment period. This comment period shall not exceed one-half hour in length and each speaker will be asked to sign up and be allowed a maximum of three (3) minutes to speak.”

ADA Compliance

The Roanoke Valley Transportation Planning Organization intends to comply with the Americans with Disabilities Act and confirms that the office located at 313 Luck Avenue, SW, Roanoke, VA is ADA compliant. If you have a disability and wish to request assistance or a special accommodation, please inform Bryan Hill at 540-343-4417 or bhill@rvarc.org no later than 48 hours in advance of the posted meeting.

MINUTES

The July meeting of the Roanoke Valley Transportation Planning Organization (RVTPO) Policy Board was held on Thursday, July 28, 2016 at 1:00 p.m. at the Roanoke Valley-Alleghany Regional Commission office, 313 Luck Avenue, SW, Roanoke, VA.

MEMBERS PRESENT

Nick Britton (<i>Via telephone, for Neil Sherman</i>)	Virginia Dept. of Rail & Public Transportation
Todd Dodson	Botetourt County
Michael Gray (<i>Alt. for Ken King</i>)	Virginia Dept. of Transportation-Salem District
Jane Johnson, <i>Chair</i>	City of Salem
Kevin Jones	Federal Highway Administration – Richmond Office
Diana Lewis	Roanoke-Blacksburg Regional Airport
Ryan Long (<i>Via telephone</i>)	Federal Transit Administration – Philadelphia Office
Lee Osborne	Roanoke Valley-Alleghany Regional Commission
Carl Palmer	Greater Roanoke Transit Company (Valley Metro)
Jason Peters	Roanoke County

1. CALL TO ORDER, ROLL CALL, INTRODUCTIONS

Chair Johnson called the meeting to order at 1:00 p.m. A quorum was present.

The following guests were in attendance: Josh Baumgardner, Roanoke Regional Chamber; Liz Belcher, Roanoke Valley Greenway Commission member, Transportation Technical Committee; Richard Caywood, Roanoke County; David Holladay, Roanoke County member, Transportation Technical Committee; Cody Sexton, Botetourt County member and Chairman of the Transportation Technical Committee; Ben Wolfenstein, Regional Commission Intern; and Cheng Yan, Federal Highway Administration.

2. APPROVAL OF JUNE 23, 2016 MINUTES

The Minutes of the June 23, 2016 meeting of the Roanoke Valley Transportation Planning Organization Policy Board were distributed earlier.

Roanoke Valley TPO Policy Board Action:

Upon motion by Diana Lewis, seconded by Michael Gray and carried, the Minutes of the June 23, 2016 meeting of the Roanoke Valley Transportation Planning Organization Policy Board were approved, as presented.

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

3. CHAIR'S REPORT

Chair Johnson reported that two new members have been appointed to the TPO Policy Board. John Garland will be replacing Bill Bestpitch, as a City of Roanoke representative and Keith Liles will be replacing Doug Adams, as a Town of Vinton representative.

4. FINAL REPORT OF THE 2016 TRANSPORTATION MANAGEMENT AREA (TMA) CERTIFICATION REVIEW OF THE ROANOKE VALLEY TPO

In the U.S., a Metropolitan/Transportation Planning Organization (MPO/TPO) must be designated, for each urbanized area defined in the most recent decennial Census, with a population of more than 50,000 people. A Transportation Management Area (TMA) is an MPO/TPO having an urbanized area population of over 200,000. The Roanoke Valley TPO was designated a TMA in July of 2012 based on Census 2010 results which brought our urbanized area over 200,000.

On March 2-3, 2016, a team of federal transit and federal highway representatives jointly conducted a Certification Review of the transportation planning process carried out by the Roanoke Valley Transportation Planning Organization (TPO) for the Roanoke, Virginia Transportation Management Area (TMA). Ryan Long (Federal Transit Administration) and Kevin Jones (Federal Highway Administration) reported that it was determined that the planning process is in compliance with meeting federal transportation laws and regulations as described in 23 Code of Federal Register Part 450, Subpart C and 49 Code of Federal Register Part 613. A number of commendations were outlined in the report acknowledging successful practices, as well as recommendations that support continued enhancement of the planning process. Federal representatives thanked Mark McCaskill and the TPO staff for their time and assistance during the review process. Mark stated with the next Census in 2020, more TMAs will be designated in the U.S. and they can watch Roanoke as an example of how to transition to TMA status.

5. PUBLIC HEARING ON THE AMENDMENT TO THE FY 2015-2018 TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

Bryan Hill reported that the FY 2015-2018 TIP is being amended to include the following six projects:

2 -- *FY'17 SMART SCALE Projects*

- Colonial Avenue Improvements (from Dogwood Lane, SW to Overland Road, SW (0.5000 mi.).
- Lila Drive/Route 115 Intersection Safety Improvements (from Lila Drive to Route 115/Plantation Road) (0.1000 mi.).

4 -- *New Regional Surface Transportation Program (RSTP) Projects*

- Valley Metro and Southern Area Agency on Aging Transit Vehicle Replacements;
- Tinker Creek Pedestrian Bridge;
- Tinker Creek Trail Extension; and
- Tinker Creek Connectivity Study.

In accordance with the Roanoke Valley TPO's Public Involvement Policy, a 30-day comment period and two public hearing notices were advertised to receive public comment on the proposed Amendment to the FY 2015-2018 TIP.

Chair Johnson opened the public hearing on the proposed Amendment to the FY 2015-2018 TIP and asked for comment(s). No comments were voiced and Chair Johnson declared the public hearing closed.

Bryan Hill stated that one comment was received by telephone on July 19, 2016 inquiring about the nature of the transit vehicle replacements and whether or not this project included the provision of new bus service.

6. ADOPTION OF SUPPORTING RESOLUTION APPROVING THE AMENDMENT TO THE FY 2015-2018 TRANSPORTATION IMPROVEMENT PROGRAM

Bryan Hill stated that a supporting resolution to approve the Amendment to the FY 2015-2018 Transportation Improvement Program was included for consideration and adoption.

Roanoke Valley TPO Policy Board Action:

Diana Lewis moved for adoption of the supporting resolution approving the Amendment to the FY 2015-2018 Transportation Improvement Program to include the six projects, as presented. The motion was seconded by Carl Palmer and carried.

7. FY'17 SMART SCALE CANDIDATE PROJECT APPLICATION RECOMMENDATIONS

Bryan Hill reported that the Transportation Technical Committee (TTC) is recommending to the TPO Policy Board that the following be endorsed as the SMART SCALE (formerly known as HB2) project applications to be submitted by the Roanoke Valley TPO:

- 1) Locality: Botetourt County
Project: I-81 Auxiliary Lane from Exit 150 to the Truck Scales (Southbound)
- 2) Locality: Roanoke County
Project: I-81 Auxiliary Lane from Exit 141 to 143 (Southbound)
- 3) Locality: Roanoke County
Project: I-81 Auxiliary Lane from Exit 140 and 141 (Northbound)
- 4) Locality: Roanoke County
Project: I-81 Auxiliary Lane from Exit 140 and 141 (Southbound)
- 5) *Locality: Roanoke County**
Project: I-81 Various Ramp Extensions between Exits 132 and 150
- 6) Localities: Roanoke City, Roanoke County
Project: VA 419/U.S. 220 Expressway Lane/Ramp Extension

Michael Gray stated that VDOT is recommending that the TPO Policy Board not include the I-81 various ramp extension projects between Exits 132 and 150 because of the potential

negative scoring impact they may have on the I-81 auxiliary lane projects which are recommended to be submitted. TPO members concurred with VDOT's recommendation as presented by Mr. Gray.

Bryan Hill noted that the applications have all been preliminary justified as having capacity needs for corridors of statewide significance. A supporting resolution was presented for consideration.

8. ADOPTION OF SUPPORTING RESOLUTION ENDORSING SMART SCALE PROJECT APPLICATION SUBMISSIONS FROM THE ROANOKE VALLEY TPO

A resolution was presented for consideration seeking endorsement of the SMART SCALE project applications and directing the staff to formally apply for the projects on behalf of the Roanoke Valley TPO Policy Board by the September 30, 2016 deadline. Staff noted that the resolution would need to be amended to delete project #5 (various ramp extensions on I-81 between Exits 132 and 150).

Roanoke Valley TPO Policy Board Action:

Jason Peters moved for adoption of the supporting resolution, as amended, to endorse the five SMART SCALE projects and to direct the staff to formally apply for the projects on behalf of the Roanoke Valley TPO Policy Board by the September 30, 2016 deadline. The motion was seconded by Diana Lewis and carried

9. DISCUSSION OF FINANCIALLY CONSTRAINED LIST OF PROJECTS

Mark McCaskill presented a handout at the meeting outlining candidate projects for the Constrained List. The candidate projects were separated into a table that listed projects that are currently in the Six-Year Improvement Program (which can't be changed through the long-range planning process) and projects not currently in the Six-Year Improvement Program. Some current Six Year Improvement Program projects listed on Page 2 of the handout have yellow highlighting that is additional amounts (balances needed outside Six-Year Plan) that still need to be funded before the project is completed.

Mark reported that he envisions the next Long-Range Transportation Plan to be a 2-phase process. The first document will be a 30 to 40-page citizen-friendly guide that is targeted for completion by the September RVTPO meeting. The second document would be a detailed technical report (to be amended the citizen friendly long-range transportation plan) in approximately one year (Summer 2017). The technical report amendment will give us a second chance to update the financial constraint and financially-constrained list of projects next year, because the technical report will go through the full public involvement process.

Mark stated that the staff is still working with its local governments to complete projects for inclusion on the Constrained and Vision Lists. Staff anticipates that the TPO Policy Board will take action on the Financially Constrained List of Projects at its September 22, 2016 meeting.

10. OTHER BUSINESS

- Mark McCaskill noted that discussion on the Regional Surface Transportation Program (RSTP) would take place at the August TPO meeting when the TPO Policy Board will be

asked to consider the Transportation Technical Committee's (TTC) recommendation(s) for a Six-Year RSTP Funding Plan. (Discussion will focus on relevant RSTP policies & procedures, project sponsors to speak on cost overruns, and the TTC Chairman will present recommendation(s) from the July TTC meeting, etc.)

11. COMMENT PERIOD

- Kevin Jones, with the Federal Highway Administration, suggested that it might be helpful for local government stakeholders to present a short 5 to 10-minute presentation each month so that the region, as a whole, has a better sense of what type projects are being undertaken by their respective communities.

The meeting was adjourned at 2:20 p.m.

Submitted by:

Wayne Strickland, Secretary,
Roanoke Valley Transportation Planning Organization

CHAIR'S REPORT

by Jane Johnson

August 25, 2016

Staff Changes

There have been several staff changes at the Regional Commission. **Mark McCaskill**, who has been with the Commission for 16 years and serves as the Director of TPO Programs, has resigned to take a position in Washington State. His last day with the Commission will be September 23, 2016 (see attached).

Also, two new planners have recently been hired.

- **Amanda McGee** joined the Commission in July as a Regional Planner II and is responsible for community and environmental planning; updating greenway and blueway plans, providing technical support regarding recreational and environmental issues, and conducting demographic data support.

Amanda is a graduate of Virginia Tech with a Masters in Urban and Regional Planning. While at Tech, she studied environmental and food systems planning, and interned with the Regional Commission in 2014 to produce a food access assessment for the City of Roanoke.

- **Rachel Ruhlen** joined the Commission on August 15 as a Transportation Planner I. Her duties include data analysis and performance measurement system development and integration; long-range transportation planning and the congestion management planning process; transit, pedestrian and bicycle planning; and public engagement and education in the area of bicycle outreach in coordination with RIDE Solutions.

Rachel has a Masters in Sustainable Transportation from the University of Washington (Seattle). She previously served as the president of the Missouri Bicycle and Pedestrian Federation and Missouri Federation for Bicycling and Walking. She also served on the Mayor's Task Force on Pedestrian Safety and Public Transit Advisory Commission for the City of Columbia, Missouri.

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

08/18/2016

Dear RVTPO,

I have enjoyed serving you over the past 16 years. In order to achieve the career goals that I have set for myself, I have accepted a Managing Director position at the Washington State Department of Commerce. This position will allow me to expand my scope and experience into wider aspects of planning, community development, public administration and leadership.

Therefore, with some sadness, I have formally resigned as Director of Transportation Planning Organization Programs at the Roanoke Valley-Alleghany Regional Commission. My last day in the office will be Friday September 23, 2016, which will allow me to work through both the August and September RVTPO meetings. You will be in good hands with both Bryan and Cristina after my transition. We also have some new faces in the office, Amanda and Rachel, who will help ensure that the future is bright and the RVTPO plans and project remain on track.

Finally, I can only express my sincere appreciation for the support and encouragement over the past 16 years. I will always remember my service to you for the professional growth it afforded and for the numerous friendships engendered.

Very Truly Yours,

Mark McCaskill

STAFF REPORT

SUBJ: RSTP FY 17-22 Financial Plan Recommended from the TTC

The Transportation Technical Committee (TTC) has arrived at a 6-year funding plan recommendation for RSTP that incorporates the additional available RSTP funding that VDOT officials communicated to the RVTPO in April 2016. In order to have a proper policy discussion concerning this RSTP funding, staff recommends that the discussion follow the following steps:

- Staff will present the relevant RSTP Policies, Procedures and Principles that are involved in this decision (summarized below).
- Project sponsors who are requesting cost overruns greater than 10% will be available to formally request, present and/or discuss the cost overrun.
- The TTC Chairman will present the TTC recommended FY 17-22 RSTP Financial Plan (attached)
- Staff is requesting that the RVTPO Policy Board discuss and possibly amend (at your discretion) the TTC recommended plan and consider action on the attached RVTPO Resolution.

Summary of Principles, Policies and Procedures to keep in mind while discussing the TTC recommended RSTP FY 17-22 Six Year Financial Plan:

Relevant Planning Principles: American with Disabilities Act (ADA) and Environmental Justice (EJ): The Bus Stop Accessibility project was not specifically discussed or included as a project that could receive expedited funding. The project was not intentionally excluded; it just didn't make it into the discussion or TTC recommendation. In light of the recent 4-year Federal Compliance Review and general planning profession ethical standards, we as staff would be remiss if we did not point out that a project dealing with accessibility (ADA) did not get expedited in the previous technical discussion. Of course it is up to your policy discretion as the RVTPO Board as to how you take this factor into consideration in your discussion.

RSTP Policies and Procedures Document:

The following excerpts are from the relevant sections of the most recent RSTP Policies and Procedures document. The attached TTC recommended RSTP FY 17-22 Six Year Financial Plan contains a "Notes" section in the right most column that documents any when emails were received by project sponsors that alerted staff (by extension the TTC) to a project cost overrun.

Page 2:

TRANSFER OF UNUSED FUNDS

Policy for handling unused or surplus RSTP allocations on completed or cancelled projects:

The handling of surplus RSTP allocations on completed or cancelled projects may be determined by the RVTPO Policy Board on a case by case basis at its discretion. In general, if there are unused RSTP funds allocated to a project that has been completed or cancelled, the transfer of available funds will be evaluated by the Transportation Technical Committee (TTC) with the RVTPO Policy Board making the final decision.

Pages 4 and 5:

COST ESTIMATES and COST OVERRUNS

Cost estimates play such an important role in project ranking, selection, management and completion that they merit specific discussion, in addition to what is stated in the “Policies” section of this document. The potential for inaccurate cost estimates to impact the ability of other projects to receive adequate and timely funding makes it necessary to clearly define the procedure for any cost overruns due to low or inadequate cost estimates. In short, it is the project sponsor (locality or agency) who ultimately bears the risks involved with a low or inadequate cost estimate. Conversely, funding surpluses are discussed in the “Transfer of Unused Funds” section of this document.

Basic considerations for cost overruns are as follows:

- a. If the cost/annual allocation and the scope of a project change less than 10% on any one RSTP funded project, the locality/agency should notify the TTC with a request and justification for a change in funding. The TTC will review the request and recommend use of any applicable reserve account or, if possible, recommend committing future year funding to preserve the project to the RVTPO Policy Board.
- b. If the cost/annual allocation and/or scope of the project change by more than 10% on any one RSTP funded project, the locality/agency should notify the TTC and RVTPO Policy Board with a request and justification for a change in funding and/or scope. The TTC and RVTPO Policy Board will review the request and may recommend one or any combination of the following:
 - 1) Scale back the project;
 - 2) Use local funds;
 - 3) Use of HB2 funds;
 - 4) Use RSTP reserve account funds (if available);
 - 5) Use existing RSTP funds from another project (either at the suggestion of the project sponsor from another RSTP project awarded to the same project sponsor; or at the discretion of the RVTPO Policy Board from all projects);
 - 6) Use future RSTP allocations (in the form of a Phase II application to be evaluated during a future candidate list and rating);
 - 7) Use future non-RSTP funds;
 - 8) Drop the project

All project candidates were originally scored using the same procedures in a fair and transparent process. The fact that a particular project sponsor (locality or agency) underestimates project costs should not unduly adversely affect funding availability allocated to other projects also funded through the process of these selection procedures and final decision of the RVTPO Policy Board.

The purpose of this section is to make it clear that there will be no incentive for “foot in the door” strategies that rely on overly optimistic cost estimates in order to secure “previously funded status” with the intent of making a subsequent request for additional funding to address the shortfall from the original inadequate cost estimate. The RVTPO Policy Board can make case by case decisions based on extenuating and unusual circumstances at its discretion. In general, it is the intention of the RVTPO Policy Board as expressed in these procedures that the project sponsors (localities or agencies) bear all relevant risk concerning the accuracy of their respective cost estimates; and that any cost overruns be handled in the manner described by subsections a) and b) above.

Roanoke Valley Transportation Planning Organization (RVTPO)

IIC Recommendation from July 14, 2016 IIC Meeting

FY 17-22 RSTP Six-Year Financial Plan - TTC Recommended 6-year financial plan from July 14, 2016 TTC Meeting

Project	Original Funding Request	Change in Cost	Funding Recommended	Previous Allocations	FY17	FY18	FY19	FY20	FY21	FY22
Roanoke River Greenway - Greenhill Park (Rke Cnty) to Riverside Park (Salem); UPC 97171; administered by Roanoke County	\$ 2,990,760		\$ 2,990,760	\$ 2,990,760	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - Eddy Avenue Bridge (Salem); UPC 56409 ; administered by City of Salem	\$ 405,600	\$ 226,514	\$ 632,114	\$ 405,600	\$ 226,514	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - Apperson Dr. Bridge (Salem); UPC 105206; administered by City of Salem	\$ 657,000		\$ 657,000	\$ 657,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - City of Salem line to Bridge Street; UPC 102769 and UPC 105439; administered by City of Roanoke	\$ 2,863,800	\$ 3,500,000	\$ 4,363,800	\$ 2,863,800	\$ 750,000	\$ 750,000				\$ -
Roanoke River Greenway - Water Pollution Control Plant to the Blue Ridge Parkway; UPC 91191; administered by Roanoke County	\$ 5,857,840		\$ 5,857,840	\$ 4,250,050	\$ 553,895	\$ 1,053,895	\$ -	\$ -	\$ -	\$ -
Downtown Roanoke Multimodal Transportation Study	\$ 300,000		\$ 300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bus Replacement for Smart Way Commuter Service - 2007 Freightliner	\$ 560,000		\$ 560,000	\$ 560,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Plantation Road, Bicycle, Pedestrian and Streetscape Improvement Project	\$ 1,279,503	\$ 400,000	\$ 1,679,503	\$ 1,279,503	\$ 400,000	\$ -	\$ -	\$ -		\$ -
Exit 140 Park and Ride Reconstruction	\$ 2,650,000		\$ 2,650,000	\$ 2,176,318	\$ 247,212	\$ 226,470	\$ -	\$ -	\$ -	
West Main Street Pedestrian Improvement Project	\$ 177,956		\$ 177,956	\$ 177,956	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Walnut Avenue Phase I	\$ 100,000		\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tinker Creek Pedestrian Bridge	\$ 1,459,500		\$ 1,459,500	\$ -		\$ 63,402	\$ 1,396,098		\$ -	
Tinker Creek Trail Extension	\$ 1,220,000		\$ 1,220,000	\$ -	\$ 200,000	\$ 520,000	\$ 500,000	\$ -	\$ -	\$ -
Bus Replacement and Rebuild Program	\$ 14,127,475		\$ 14,127,475	\$ -	\$ 1,796,315	\$ 1,955,439	\$ 1,955,439	\$ 1,955,439	\$ 1,955,439	\$ 1,955,439
Garden City Trail Connection	\$ 200,000		\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Plantation Road - Lila Drive Intersection	\$ 968,750	\$ (968,750)	\$ 968,750	\$ -	\$ -	\$ -	\$ 968,750			
Tinker Creek Greenway Connectivity Study	\$ 40,000		\$ 400,000	\$ -	\$ 300,000	\$ -	\$ 100,000		\$ -	\$ -
West Main Street Pedestrian Improvements - Phase II	\$ 803,995	\$ (28,609)	\$ 775,386	\$ -	\$ -	\$ -	\$ 775,386		\$ -	\$ -
Bus Stop Accessibility - GRTC	\$ 1,000,000		\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -
Campbell Avenue Bike and Ped Improvements	\$ 3,300,000		\$ 3,300,000	\$ -	\$ -	\$ -	\$ -	\$ 1,950,000	\$ 1,350,000	\$ -
Balance Entry							\$ 18,093	\$ 41,525	\$ 1,703,741	\$ 3,149,439
					FY17	FY18	FY19	FY20	FY21	FY22
				Previous Allocation	\$ 3,943,969	\$ 3,921,164	\$ 3,921,164	\$ 3,921,164	\$ 3,921,164	\$ 3,921,164
				Additional RSTP Funding Received	\$ 552,772	\$ 648,042	\$ 823,852	\$ 1,025,800	\$ 1,088,016	
				TTC Recommendation: Total Funding Allocated:	\$ 4,473,936	\$ 4,569,206	\$ 4,745,016	\$ 4,946,964	\$ 5,009,180	\$ 5,104,878
				(Updated RSTP Funding Available per VDOT 04-18-16 communication) Total Funding Available:	\$ 4,473,936	\$ 4,569,206	\$ 4,745,016	\$ 4,946,964	\$ 5,009,180	\$ 5,104,878
				Difference:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note a previous RSTP project - Plantation Road - Lila Drive for \$968,750 was taken off of the RSTP Six Year funding plan because the project is now funded with SMART SCALE (HB2) funding. The \$968,750 was allocated throughout the TTC recommendation.

FY 17-22 RSTP Six-Year Financial Plan - TTC Recommended 6-year financial plan from July 14, 2016 TTC Meeting-PROJECT NOTES

Project	Notes and Documentation of original email documenting estimated cost overrun to staff.
Roanoke River Greenway - Greenhill Park (Rke Cnty) to Riverside Park (Salem); UPC 97171; administered by Roanoke County	
Roanoke River Greenway - Eddy Avenue Bridge (Salem); UPC 56409 ; administered by City of Salem	Anticipated project cost overage \$226,514 documented by a City of Salem email (B. Tripp) to staff 06/15/2016 and the information was subsequently included in financial plan scenarios for TTC discussion at the July meeting. The cost overage of greater than 10% was discovered because the project is ready to go to construction and actual costs are greater than anticipated costs.
Roanoke River Greenway - Apperson Dr. Bridge (Salem); UPC 105206; administered by City of Salem	
Roanoke River Greenway - City of Salem line to Bridge Street; UPC 102769 and UPC 105439; administered by City of Roanoke	Anticipated cost overrun of \$3.5 million due to required new bridge structure as documented by City of Roanoke email (Priscilla C.) on 07/08/16 and the information was subsequently included in 2 financial plan scenarios for TTC discussion at the July meeting. The TTC decided to recommend partial funding of \$1.5 million for the original request because a \$3.5 million cost overrun was both larger than the original project funding request and would potentially impede other cost overrun funding requests from other projects. The TTC's understanding was that the project sponsor would need to secure the additional \$2million in cost overrun from other non RSTP sources.
Roanoke River Greenway - Water Pollution Control Plant to the Blue Ridge Parkway; UPC 91191; administered by Roanoke County	Original FY17 funding amount of \$1,607,790 split over two years (FY17 and FY18) based on project needs, with agreement from Roanoke County. No change in total funding needed. Cash flow change allows other RSTP projects to go to construction.
Downtown Roanoke Multimodal Transportation Study	
Bus Replacement for Smart Way Commuter Service - 2007 Freightliner	
Plantation Road, Bicycle, Pedestrian and Streetscape Improvement Project	An anticipated cost overrun of \$400,000 due to bids coming higher than expected was documented to staff by Roanoke County email (D. Holladay email 7-1-2016) and the information was subsequently included in financial plan scenarios for TTC discussion at the July meeting. The cost overage of greater than 10% was discovered because the project is ready to go to construction and actual costs are greater than anticipated costs.
Exit 140 Park and Ride Reconstruction	Some funding moved from FY18 to FY17 due to cash flow dynamics. Total amount of funding did not change.
West Main Street Pedestrian Improvement Project	
Walnut Avenue Phase I	
Tinker Creek Pedestrian Bridge	In agreement with the Town of Vinton on 6/23, original funding in FY17 and FY18 can be redistributed to FY18 and FY19 because of project timing issues. Total funding amount did not change.
Tinker Creek Trail Extension	Moved some construction funding forward in time. Total amount of funding did not change.
Bus Replacement and Rebuild Program	Additional \$1,955,439 added to FY22 to continue financing pattern. Note that only \$11,573,510 of the original \$14,127,415 award has been allocated as of FY22. The remaining balance of \$2,598,905 will still need to be allocated beyond FY22 in a future RSTP funding plan.
Garden City Trail Connection	
Plantation Road - Lila Drive Intersection	
Tinker Creek Greenway Connectivity Study	Funding timing change requested by City of Roanoke (D. Underwood email). Total project funding amount is unchanged the request is to move \$300,000 to FY17 because of the project's proximity to the newly announced Deschutes Brewery economic development project.
West Main Street Pedestrian Improvements - Phase II	Roanoke County email (D. Holladay Email 07-01) - informing staff of a cost reduction and the new project total is \$775,386 due to receipt of revenue sharing funding. Unable to move the project up to start in the "committed" years as requested because other cost overruns further up on the list prevent moving the project. New project total changed to reflect email.
Bus Stop Accessibility - GRTC	
Campbell Avenue Bike and Ped Improvements	Now fully funded. Was only partially funded in previous RSTP Six Year financial Plan.
<u>Balance Entry</u>	Balance Entry account for "reserve" and additional applications. Can be used as future contingency or to fully fund remaining balance on Bus Replacement and Rebuild program in FY 21 and FY 22.

Roanoke Valley Transportation Planning Organization (RVTPO)
FY 17-22 RSTP Six-Year Financial Plan (Working DRAFT)

May 12, 2016 TTC Meeting (Working)

Project	Funding Request	Previous Allocations	FY17	FY18	FY19	FY20	FY21	FY22
Roanoke River Greenway - Greenhill Park (Rke Cnty) to Riverside Park (Salem); UPC 97171; administered by Roanoke County	\$ 2,990,760	\$ 2,990,760	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - Eddy Avenue Bridge (Salem); UPC 56409 ; administered by City of Salem	\$ 405,600	\$ 405,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - Apperson Dr. Bridge (Salem); UPC 105206; administered by City of Salem	\$ 657,000	\$ 657,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - City of Salem line to Bridge Street; UPC 102769; administered by City of Roanoke	\$ 2,863,800	\$ 2,863,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roanoke River Greenway - Water Pollution Control Plant to the Blue Ridge Parkway; UPC 91191; administered by Roanoke County	\$ 5,857,840	\$ 4,250,050	\$ 1,607,790	\$ -	\$ -	\$ -	\$ -	\$ -
Downtown Roanoke Multimodal Transportation Study	\$ 300,000	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Bus Replacement for Smart Way Commuter Service - 2007 Freightliner	\$ 560,000	\$ 560,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Plantation Road, Bicycle, Pedestrian and Streetscape Improvement Project	\$ 1,279,503	\$ 1,279,503	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Exit 140 Park and Ride Reconstruction	\$ 2,650,000	\$ 2,176,318	\$ 172,059	\$ 301,623	\$ -	\$ -	\$ -	\$ -
West Main Street Pedestrian Improvement Project	\$ 177,956	\$ 177,956	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Walnut Avenue Phase I	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tinker Creek Pedestrian Bridge	\$ 1,459,500	\$ -	\$ 145,000	\$ 1,314,500	\$ -	\$ -	\$ -	\$ -
Tinker Creek Trail Extension	\$ 1,220,000	\$ -	\$ 200,000	\$ 349,602	\$ 670,398	\$ -	\$ -	\$ -
Bus Replacement and Rebuild Program	\$ 14,127,475	\$ -	\$ 1,796,315	\$ 1,955,439	\$ 1,955,439	\$ 1,955,439	\$ 1,955,439	\$ -
Garden City Trail Connection	\$ 200,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Plantation Road - Lila Drive Intersection	\$ 968,750	\$ -	\$ -	\$ -	\$ 968,750	\$ -	\$ -	\$ -
Tinker Creek Greenway Connectivity Study	\$ 400,000	\$ -	\$ -	\$ -	\$ 326,577	\$ 73,423	\$ -	\$ -
West Main Street Pedestrian Improvements - Phase II	\$ 803,995	\$ -	\$ -	\$ -	\$ -	\$ 803,995	\$ -	\$ -
Bus Stop Accessibility - GRTC	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -
Campbell Avenue Bike and Ped Improvements	\$ 3,300,000	\$ -	\$ -	\$ -	\$ -	\$ 88,307	\$ 1,965,725	\$ -
			FY17	FY18	FY19	FY20	FY21	FY22
(Per RVTPO action 03-12-15) Total Funding Allocated:			\$ 3,921,164	\$ 3,921,164	\$ 3,921,164	\$ 3,921,164	\$ 3,921,164	\$ -
(Preliminary Funding Per VDOT 04-18-16) Total Funding Available:			\$ 4,473,936	\$ 4,569,206	\$ 4,745,016	\$ 4,946,964	\$ 5,009,180	\$ 5,104,878
Amount Needs to be Allocated to Projects >>>>> Difference:			\$ 552,772	\$ 648,042	\$ 823,852	\$ 1,025,800	\$ 1,088,016	\$ 5,104,878

Considerations for discussion:

- 1) Estimates need to be revised for all projects; extra funding could be used to cover increases (high priority to low); not a way to add to the scope of the project; red flag if project increases over a certain amount (10-15%???)
- 2) Is there a need to advance funding for any of the "committed" projects; these are projects that have funding in FY17 and in out years
- 3) Projects that start in out years (FY19-21) could be started earlier; potential to fully fund these projects
- 4) Due to the significant increase in RSTP funding, it is likely that additional funding will be available in the out years; this funding can be placed on a "balance entry" account to be allocated next RSTP cycle

The 25th day of August, 2016

RESOLUTION

Endorsement of the FY 2017-2022 Regional Surface Transportation Program (RSTP) Six-Year Financial Plan

WHEREAS, the Roanoke Valley Transportation Planning Organization (TPO) is now classified as a Transportation Management Area (TMA/TPO) as a result of Census 2010 population; and,

WHEREAS, the Policy Board of the Roanoke Valley TPO, as a TMA, has the responsibility to program Regional Surface Transportation Program (RSTP) funds within the Roanoke Valley TPO Study Area,

NOW, THEREFORE, BE IT RESOLVED that the Policy Board of the Roanoke Valley Transportation Planning Organization endorses the attached FY 2017-2022 RSTP Six-Year Financial Plan and forwards this supporting resolution/endorsement to the Virginia Commonwealth Transportation Board.

Jane Johnson
Chair

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

STAFF REPORT

SUBJ: FY17 SMART SCALE Candidate Project Application Recommendations

At the August 11, 2016 Transportation Technical Committee (TTC) meeting, the TTC heard a request from Roanoke County and the City of Roanoke to have the RVTPO apply for a sixth SMART SCALE project. This project is outlined in the table below:

FY17 SMART SCALE Project List – RVTPO

Project Location	Title (working)	Description	Project Type
Roanoke City, Roanoke Co.	U.S. 460 East Adaptive Traffic Control Improvements	The provision of signal timing devices and improvements to five (5) signalized intersections along U.S. 460/Orange Avenue and Challenger Avenue	Corridor of Statewide Significance

The additional project is similar in nature to the SMART SCALE-funded U.S. 220 Communications and Adaptive Systems Project in the FY17-22 Six-Year Improvement Program.

Localities seeking to apply for SMART SCALE projects, which serve a Corridor of Statewide Significance, must receive a resolution of endorsement from the TPO. As such, the City of Salem is applying for the following three projects which will serve U.S. 460:

1. Downtown Salem Intersection and Streetscape Improvements
2. East Main Street Improvements – Phase II
3. Mason Creek Greenway – Phase III

Additionally, all SMART SCALE transit applications must receive a resolution of endorsement from the TPO. Valley Metro is applying for four (4) transit projects, which are described further in the following paragraphs.

Smart Way Express Buses (2)

Valley Metro and Virginia Tech intend to partner to provide Smart Way Express Bus Service between the Virginia Tech Campus in Blacksburg and the Virginia Tech Carilion School of Medicine in Roanoke. This service would have limited stops, complementing the more robust existing Smart Way Commuter service. Two vehicles are being requested through SMART SCALE to begin this service.

Valley Metro Fixed-Route Expansion Vehicles (2)

Valley Metro routes 91/92 connect Downtown Roanoke, Downtown Salem, Lewis Gale Medical Center, the VA Medical Center, and many neighborhoods in between. These routes experience overcrowding during many times of the day. The existing 35' vehicles are insufficient to carry the number of passengers utilizing the transit service on these routes. As such, two 40' expansion vehicles are being requested through SMART SCALE to provide expanded capacity between these critical regional activity centers.

Valley Metro Expanded Maintenance Facility

Since the construction of the current Valley Metro Administrative and Maintenance Facility, the number of buses being housed and maintained has increased, most notably including the Smart Way and Trolley vehicles. Intentions to grow the regional transit network are outlined in the Roanoke Valley Transit Vision Plan which will also necessitate additional maintenance capacity.

As such, a new maintenance facility is planned on property owned by the Greater Roanoke Transit Company across from its current facility. An engineering consultant is currently drafting engineering plans for the facility. SMART SCALE funding is being requested to fund construction of the expanded maintenance facility.

Valley View Boulevard Transit Access Improvements

Valley View Mall is the region's largest shopping area and a significant activity generator. Bus stops along Valley View Boulevard N. from Hershberger Road to Ring Road and on Valley View Boulevard W. from Valley View Boulevard to Ring Road lack basic pedestrian connectivity. Sidewalks, ADA ramps, crosswalks, and other pedestrian accommodations are planned to connect local restaurants, hotels, and stores to each other and to the bus stops. The project would support the use of transit while improving accessibility and pedestrian mobility in this key regional activity center.

RECOMMENDATION:

Staff has included a resolution with the above project recommendations and endorsements, for which it seeks approval.

The 25th day of August, 2016

RESOLUTION

SUBJ: Endorsement of SMART SCALE Grant Application Submissions from the Roanoke Valley Transportation Planning Organization

WHEREAS, in 2014, the Virginia General Assembly enacted §33.2-214.1, otherwise known as SMART SCALE, requiring the Commonwealth Transportation Board (CTB) to develop a statewide prioritization process for the funding of transportation projects, and declares it to be in the public interest for projects funded by the CTB be developed and implemented to improve the efficiency and effectiveness of the state's transportation system, transportation safety, transportation accessibility for people and freight, environmental quality, and economic development in the Commonwealth; and

WHEREAS, such prioritization process shall be used for the development of the Six-Year Improvement Program and shall consider, at a minimum, highway, transit, rail, roadway, technology operational improvements, and transportation demand management strategies; and

WHEREAS, the prioritization process shall be based, at a minimum on the following factors: congestion mitigation, economic development, accessibility, safety, environmental quality and land use and transportation coordination; and

WHEREAS, candidate projects and strategies shall be screened by the CTB to determine whether they are consistent with the assessment of capacity needs for all for corridors of statewide significance and regional networks, undertaken in the Statewide Transportation Plan in accordance with §33.2-353; and

WHEREAS, the following SMART SCALE highway candidate project:

Locality: Roanoke City and Roanoke County
Project: U.S. 460 East Adaptive Traffic Control Improvements

has been preliminarily justified as having capacity needs for corridors of statewide significance; and

WHEREAS, the General Assembly enacted the high-priority projects and highway construction district grant programs through §33.2-370 and §33.2-371 respectively; and

WHEREAS, localities or agencies that request projects be applied for by the Policy Board of the Roanoke Valley Transportation Planning Organization will be only seeking funds through the high priority projects program.

WHEREAS, localities seeking to apply for SMART SCALE projects which serve a Corridor of Statewide Significance must receive a resolution of support from a relevant regional entity; and

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

WHEREAS, the City of Salem is applying for the following candidate projects which serve a Corridor of Statewide Significance:

1. Downtown Salem Intersection and Streetscape Improvements
2. East Main Street Improvements – Phase II
3. Mason Creek Greenway – Phase III

WHEREAS, as a transit provider, the Greater Roanoke Transit Company (d.b.a. Valley Metro) will be submitting SMART SCALE applications for the following four candidate projects:

1. SmartWay Express Vehicle Purchase (2)
2. 40-Foot Fixed Route Expansion Vehicles for Valley Metro Routes 91/92 (2)
3. GRTC Expanded Maintenance Facility
4. Valley View Boulevard Transit Access Improvements

and seeks endorsement of said projects by the Roanoke Valley Transportation Planning Organization Policy Board; and

NOW, THEREFORE BE IT RESOLVED THAT:

1. The Roanoke Valley Transportation Planning Organization Policy Board endorses one additional SMART SCALE candidate project listed herein, and directs staff to formally apply for the project on its behalf by the September 30, 2016 deadline; and

2. The Roanoke Valley Transportation Planning Organization Policy Board endorses four SMART SCALE candidate transit projects being applied for by Valley Metro; and

3. The Roanoke Valley Transportation Planning Organization Policy Board endorses three SMART SCALE applications from the City of Salem.

Jane Johnson
Chair

STAFF REPORT

SUBJ: Financially Constrained and Vision List of Projects

The attached tables represent the updated list of candidate projects for the long-range plan's financially-constrained list of projects. Members have to select about \$300 million worth of projects from the list to shift to the "vision list" in order to get under the financial constraint. The \$300 million has to come from the first table, since the projects in the second table can't be changed (i.e., current Six-Year Plan). Please review the table and note which projects you suggest moving to the "vision list."

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

**DRAFT FINANCIALLY CONSTRAINED LIST OF PROJECTS
PROJECTS NOT IN THE SIX-YEAR IMPROVEMENT PROGRAM**

Project	Locality/Agency	Cost Estimate	Generally Preferred Time Frame	Eligibility
Road/Highway/Interstate Projects				
Valley View Boulevard Extension	City of Roanoke	\$48,334,000	Short-Term	RSTP, Smart Scale
Hershberger Rd. – Cove to Peters Creek (add turn lanes, C&G, sidewalk, bike lanes, drainage)	City of Roanoke	\$6,889,400		RSTP, Smart Scale, TA
U.S. 220 Improvements from Electric Rd./Rte. 419 to Franklin County	Roanoke Co.	\$135,626,400	Medium to Long-Term	RSTP, Smart Scale
U.S. 220 NB ramp extension to through lane (over Rte. 419)	Roanoke Co.	\$3,000,000	Short-Term	RSTP, Smart Scale
I-581 & Peters Creek Rd. Interchange Improvements (enhancing access to Valleypointe Dr.)	Roanoke Co.	\$4,500,000	Medium-Term	RSTP, Smart Scale
U.S. 11/Williamson Rd. (from Peters Creek Rd. to Roanoke City Limit) Urban 2 or 4-lanes & Bike/Ped Improvements	Roanoke Co.	\$24,017,000	Medium-Term	RSTP, Smart Scale, TA
Route 116/Jae Valley Rd. Improvements (rural 2-lane w/shoulder improvements)	Roanoke Co.	\$22,800,600	Medium to Long-Term	RSTP, Smart Scale
U.S. 221/Brambleton Ave. Pedestrian Improvements (Roanoke City to Electric Rd.; SRTS - various)	Roanoke Co.	\$1,092,240	Short to Medium-Term	RSTP, Smart Scale, TA
Explore Park Access - Hardy Rd./Blue Ridge Parkway Connection	Roanoke Co.	\$16,000,000		RSTP, Smart Scale, TA
Explore Park Access - Secondary Access Points from Rutrough Rd.	Roanoke Co.	\$9,902,200	Short to Medium-Term	RSTP, Smart Scale, TA
Rte. 1662/McVitty Rd. & Rte. 1663/Old Cave Spring Rd. Improvements	Roanoke Co.		Short-Term	RSTP, Smart Scale
Develop U.S. 460/Challenger Ave. to Urban 6 lanes (continuation of Roanoke City project - from Roanoke City Limits to Botetourt Co.)	Roanoke Co.	35727520	Medium to Long-Term	RSTP, Smart Scale
East Main Street Phase II – Brand Ave. to Kessler Mill	City of Salem	\$13,000,000	Short to Medium-Term	RSTP, Smart Scale
East Main Street/Downtown Salem Streetscape	City of Salem	\$7,000,000	Short to Medium-Term	RSTP, Smart Scale, TA
Downtown Streetscape and Intersection Improvements	City of Salem	\$300,000	Short-Term	RSTP, Smart Scale, TA
Airport Road/Route 118 Tunnel Rehabilitation	Roanoke-Blacksburg Regional Airport	\$6,425,000	Short to Medium-Term	RSTP, Smart Scale
I-81 Improvements from the Western TPO Boundary to Exit 150				
Various auxiliary lane and ramp extension projects on I-81	Botetourt Co., Montgomery Co., Roanoke Co.	\$150,000,000	Short to Medium-Term	RSTP, Smart Scale
Studies				
Colonial Avenue Improvements – Brandon Ave. to Winding Way (streetscape, C&G, sidewalk, widen 1-ln., drainage)	City of Roanoke	\$5,335,400	Medium-Term	RSTP, Smart Scale, TA
U.S. 11/U.S. 460 Corridor Study	Roanoke Co.			
Bike/Pedestrian/Transit Access Projects				
King St. – Gus Nicks to Orange (add turn lanes, C&G, sidewalk, bike lanes, drainage, reconstruct signal)	City of Roanoke	\$7,511,000	Medium-Term	RSTP, Smart Scale
Melrose/Salem Turnpike/Orange (dev. Of village ctrs., bike/ped impr, parking, drainage)	City of Roanoke	\$1,512,000	Any Timeframe	RSTP, Smart Scale, TA
Valley View Blvd. Transit Access/Pedestrian Improvements	City of Roanoke	\$300,000	Short-Term	RSTP, Smart Scale, TA
Campbell Avenue Bike and Ped Improvements	City of Roanoke	\$3,300,000		RSTP, Smart Scale, TA
Bus Stop Accessibility	City of Roanoke / GRTC	\$1,000,000	Short to Medium-Term	RSTP, Smart Scale, TA
Real Time Information System (short-term)	GRTC	\$225,000	Short-Term	RSTP, Smart Scale
Various Bus Stop Access Improvements/Enhancements	GRTC / Various Localities	\$2,000,000	Any Timeframe	RSTP, Smart Scale, TA
Electric Road/419 & Brambleton to Postal Multimodal Improvements	Roanoke Co.	\$100,000	Short-Term	RSTP, Smart Scale, TA
West Main Street Pedestrian Improvements – Phase II	Roanoke Co.	\$909,386	Short to Medium-Term	RSTP, Smart Scale, TA
Rte. 625/Hershberger Rd. - Bicycle and Pedestrian Accommodations (Roanoke City to Plantation Rd.)	Roanoke Co.	\$534,000	Medium-Term	RSTP, Smart Scale, TA
Rte. 634/Hardy Rd. - Bicycle and Pedestrian Improvements (from Vinton to Bedford Co.)	Roanoke Co.	\$1,245,000	Medium-Term	RSTP, Smart Scale, TA
Rte. 682/Garst Mill Rd. - Bicycle and Pedestrian Improvements (From Brambleton Ave. to Grandin Rd.)	Roanoke Co.	\$1,057,000	Medium-Term	RSTP, Smart Scale, TA
Rte. 687/Penn Forest Rd. - Bicycle and Pedestrian Improvements (From Colonial Ave. to Starkey Rd.)	Roanoke Co.	\$978,000	Medium-Term	RSTP, Smart Scale, TA

Rte. 679/Buck Mountain Rd. - Bicycle and Pedestrian Improvements (From Starkey Rd. to U.S. 220)	Roanoke Co.	\$1,460,000	Medium-Term	RSTP, Smart Scale, TA
Rte. 907/Starkey Rd. Improvements (Urban 2 or 4-lane, with bike/ped accommodations)	Roanoke Co.	\$11,940,000	Medium-Term	RSTP, Smart Scale, TA
Brambleton Avenue – Transit/Bike/Ped Improvements	Roanoke Co., City of Roanoke	\$3,634,000	Medium-Term	RSTP, Smart Scale, TA
Transit Facilities Projects				
Downtown Roanoke Intermodal Station	City of Roanoke / GRTC	\$10,000,000	Short to Medium-Term	RSTP, Smart Scale, TA
Carilion Transfer Facility	City of Roanoke / GRTC	\$750,000	Short to Medium-Term	RSTP, Smart Scale, TA
Crossroads Transfer Facility	City of Roanoke / GRTC	\$750,000	Short to Medium-Term	RSTP, Smart Scale, TA
Roanoke County Transfer Facilities (various)	Roanoke Co. / GRTC	\$850,000	Short to Medium-Term	RSTP, Smart Scale, TA
Lewis Gale Transfer Facility	City of Salem	\$100,000	Short-Term	RSTP, Smart Scale, TA
Downtown Salem Transfer Facility	City of Salem	\$100,000	Short to Medium-Term	RSTP, Smart Scale, TA
VA Medical Center Transfer Facility	City of Salem	\$50,000	Short-Term	RSTP, Smart Scale, TA
Transit Vehicles Projects				
Ongoing Bus Replacement and Rebuild Program	GRTC	\$14,127,475	Any Timeframe	RSTP
Six (6) Additional Vehicles (short-term)	GRTC	\$2,790,000	Short to Medium-Term	RSTP, Smart Scale
Greenway Projects				
Mason Creek Greenway	City of Roanoke, City of Salem	\$3,000,000	Short to Medium-Term	RSTP, Smart Scale, TA
Roanoke River Greenway from Rotary Park to Roanoke City Corporate Limit	City of Salem	\$3,000,000	Short to Medium-Term	RSTP, Smart Scale, TA
Glade Creek Greenway, Phase II	Town of Vinton	\$526,210	Short-Term	RSTP, Smart Scale, TA
Glade Creek Greenway, Phase III	Town of Vinton	\$300,000	Any Timeframe	RSTP, Smart Scale, TA
Tinker Creek Trail Extension	City of Roanoke	\$1,220,000	Short-Term	RSTP, Smart Scale, TA
Lick Run Greenway	City of Roanoke	\$3,000,000	Medium-Term	RSTP, TA
Tinker Creek Greenway	Roanoke City, Roanoke Co., Botetourt Co.	\$10,000,000	Short to Medium-Term	RSTP, Smart Scale, TA
Roanoke River Greenway from Blue Ridge Parkway to Back Creek	Roanoke Co.	\$3,000,000	Short-Term	FLAP, Smart Scale, TA
Roanoke River Greenway West - Green Hill Park to Montgomery County	Roanoke Co.	\$15,333,327	Short to Medium-Term	RSTP, Smart Scale, TA
Roanoke River Greenway West - West Main Street Pedestrian Connections	Roanoke Co.		Short to Medium-Term	RSTP, Smart Scale, TA
Roanoke River Greenway Extension from Blue Ridge Parkway through Explore Park to Rutrough Rd.	Roanoke Co.	\$2,369,000	Short to Medium-Term	RSTP, Smart Scale, TA
ITS Projects				
Traffic signal improvements at Electric Road/419 & Brambleton Ave. (traffic & video control sensors, upgrade to LED lights)	Roanoke Co.	\$280,000	Short-Term	RSTP, Smart Scale
Rte. 419/Electric Rd. Adaptive Traffic Control Improvements (Springwood Park Dr. to McVitty Rd.; Carriage Ln. to Valley Dr.)	Roanoke Co.	\$400,000	Short-Term	RSTP, Smart Scale
U.S. 221/Brambleton Ave. Adaptive Traffic Control Improvements (Colonial Ave. to Ranchcrest Dr.)	Roanoke Co.	\$400,000	Short-Term	RSTP, Smart Scale
		\$600,001,158		

Notes:

1. Cost estimates in red were developed by staff using VDOT's Project Cost Estimating System
2. The number assigned in "Short, Medium and Long-Term" columns are representative of votes received for each time frame.

DRAFT FINANCIALLY CONSTRAINED LIST OF PROJECTS
PROJECTS CURRENTLY IN THE SIX-YEAR IMPROVEMENT PROGRAM

Project	Locality/Agency	SYIP Fully Funded	Generally Preferred Time Frame
RSTP Projects			
Tinker Creek Trail Extension	City of Roanoke	\$1,220,000	Short-Term
Tinker Creek Greenway Connectivity Study	City of Roanoke, Botetourt Co., Roanoke Co.	\$400,000	Short-Term
Tinker Creek Pedestrian Bridge	City of Roanoke, Town of Vinton	\$1,459,500	Short-Term
Valley Metro Transit Vehicle Replacements	GRTC	\$14,127,475	Any Timeframe
SMART SCALE Projects			
HB2 FY17 Transit Accessibility Improvements on Edgewood Street	City of Roanoke	\$351,000	Short to Medium-Term
HB2 FY17 U.S. 220 Communications and Adaptive System Project	City of Roanoke	\$423,000	Short-Term
HB2 FY17 Colonial Avenue Improvements	City of Roanoke	\$7,000,000	Short-Term
HB2 FY17 10TH Street - 2 Lane, Bike Lane, Curb & Gutter, Sidewalk	City of Roanoke	\$12,451,000	Short-Term
HB2 FY17 Multimodal Improvements along Boulevard	City of Salem	\$885,000	Short-Term
HB2 FY17 U.S. 460 - Widen TO 3 Lanes w/ Bike Lane, Curb, Sidewalk	City of Salem	\$2,912,000	Short to Medium-Term
HB2 FY17 Roanoke River Greenway, Green Hill Park to Riverside Park	Roanoke Co.	\$4,542,000	Short-Term
HB2 FY17 I-81 NB Auxiliary Lane from Exit 141 to 143	Roanoke Co.	\$18,323,000	Short-Term
HB2 FY17 Lila Dr. / Rte. 115 Intersection Safety Improvements	Roanoke Co.	\$1,269,000	Short-Term
HB2 FY17 Rte. 311 / Rte. 419 Int. Safety & Congestion Improvements	Roanoke Co.	\$1,957,000	Short-Term
HB2 FY17 Rte. 419 Safety Improvements at Tanglewood	Roanoke Co.	\$5,853,000	Short to Medium-Term
Road/Highway/Interstate Projects			
Rte. 24 Bedford County - Safety Improvements	Bedford Co.	\$1,600,000	Short to Medium-Term
Rte. 460 Safety Improvements	Bedford Co.	\$4,510,000	Short-Term
Rte. 11,220,220A Access Management Project at I-81 Exit 150	Botetourt Co.	\$18,038,000	Short to Medium-Term
Tenth Street Improvements	City of Roanoke	\$3,459,000	Short-Term
13 th Street/Hollins Rd. Improvements	City of Roanoke	\$40,909,000	Short to Medium-Term
Develop Orange Avenue to Urban 6 Lanes (13th St. to Gus Nicks Blvd.)	City of Roanoke	\$45,381,000	Long-Term
I-73 - Roanoke County - Partial PE Only	Roanoke Co.	\$39,996,000	Medium to Long-Term
U.S. 11/Williamson Rd. & Rte. 117/Peters Creek Rd. (from Peters Creek Rd. to Bike & Pedestrian Safety Improvements	Roanoke Co.	\$1,000,000	Short-Term
Rte. 116/Jae Valley Rd. over Back Creek - Bridge Replacement	Roanoke Co.	\$6,438,000	Short-Term
Rte. U000 - Walnut Ave. Int. Improvement at 8th Street	Town of Vinton	\$2,318,000	Short to Medium-Term
Bike/Pedestrian/Transit Access Projects			
Rte. 221 Bedford Co. - Bike & Ped Safety Improvements *(discuss scope @ mtg.)	Bedford Co.	\$2,550,000	Any Timeframe
Garden City Blvd. Bike/Ped - Transportation Alternatives	City of Roanoke	\$246,000	Short-Term
East Main Street / College Avenue - Pedestrian Improvements	City of Salem	\$1,001,000	Short-Term
West Main Street Sidewalk Installation	Roanoke Co.	\$134,000	Short-Term
Rte. 311 (under I-81) Bike & Ped Safety Improvements	Roanoke Co.	\$700,000	Short to Medium-Term
Rte. 11 & 117 (Peters Creek Rd./Williamson Rd. Int.) - Bike & Ped Safety Improvements	Roanoke Co.	\$1,000,000	Medium-Term
Seniors/Individuals with Disabilities Transit Projects			
Southern Area Agency on Aging Transit Vehicle Replacements	SAAoA	\$240,000	Short-Term

RADAR Paratransit Vehicles	RADAR	\$585,000	Short-Term
Greenway Projects			
Roanoke River Greenway - City of Roanoke to Blue Ridge Parkway	Roanoke Co.	\$1,608,000	Short-Term
Daleville Greenway	Botetourt Co.	\$595,000	Short-Term
Transportation Demand Management			
Exit 140 Park and Ride Reconstruction	Roanoke Co.	\$474,000	Short-Term
	TOTAL	\$245,954,975	

Notes:

1. Cost estimates highlighted yellow indicate a balance in the SYIP after FY22.
2. The number assigned in "Short, Medium and Long-Term" columns are representative of votes received for each time frame.

DRAFT FINANCIALLY CONSTRAINED LIST OF PROJECTS

VISION LIST OF PROJECTS

Project	Locality/Agency	Cost Estimate	Eligibility
Road/Highway/Interstate Projects			
Cove Rd. – Hershberger to Peters Creek (add turn lanes, C&G, sidewalk, bike lanes, drainage)	City of Roanoke	\$7,511,000	RSTP, Smart Scale, TA
Church Ave. – Jefferson to 5th streetscape improvements	City of Roanoke	\$2,797,200	RSTP, Smart Scale
Williamson Rd. – Orange to Angell (road diet)	City of Roanoke	\$9,531,200	RSTP, Smart Scale
Memorial Ave. – Grandin to Denniston (streetscape impr.)	City of Roanoke	\$1,450,400	RSTP, Smart Scale
Hollins Rd. (Orange Ave. to Liberty Rd) widening to 4 lanes w/bicycle ln.	City of Roanoke	\$6,106,740	RSTP, Smart Scale, TA
Jefferson St. – Elm to McClanahan (road diet)	City of Roanoke	\$12,700,800	RSTP, Smart Scale
McVitty Rd. & Old Cave Spring Rd. Improvements	Roanoke Co.	\$19,305,742	RSTP, Smart Scale
Friendship Lane/Carvins Creek Bridge Replacement	Roanoke Co.	\$136,495	RSTP, HSIP
Apperson Drive over Roanoke River Bridge Repl./Widening – Bike/Ped Accommodations	City of Salem	\$5,150,000	RSTP, Smart Scale, TA
Interchange Lighting at I-81 Exits 137-150	Salem, Roanoke Co., Botetourt Co.	\$8,410,000	RSTP
Walnut Avenue and 8 th Street Intersection	Town of Vinton	\$2,334,931	RSTP, Smart Scale, TA
Comprehensive Traffic Intersection Improvements	Town of Vinton	\$2,750,000	RSTP, Smart Scale
Bike/Pedestrian/Transit Access Projects			
9th St., SE (streetscape, pedestrian improvements, roundabouts, road diet & ped impr.)	City of Roanoke	\$7,252,000	RSTP, Smart Scale, TA
Second Pedestrian Bridge over I-581 at Valley View Blvd.	City of Roanoke	\$4,000,000	RSTP, Smart Scale, TA
Liberty Rd. - Burrell to Hollins (add turn lanes, C&G, sidewalk, bike lanes, drainage, reconstruct signal)	City of Roanoke	\$6,941,200	RSTP, Smart Scale
Future Joint Transit/Bike/Ped Improvement Projects	City of Roanoke, Roanoke Co.	\$1,855,000	RSTP, Smart Scale, TA
Apperson Drive Streetscape/Multimodal Improvements	City of Salem	\$250,000	RSTP, Smart Scale, TA
Braeburn Drive – Transit/Bike/Ped Improvements	City of Salem	\$510,000	RSTP, Smart Scale, TA
Virginia Ave./Rte. 24 bicycle improvements (from ECL City of Roanoke to Chestnut St. * (Discuss this and other bike projects at mtg.)	Town of Vinton	TBD	RSTP, Smart Scale, TA
Hardy Road SRTS Project (to include new signalized intersection)	Town of Vinton	\$250,000	RSTP, Smart Scale, TA

Transit Facilities Projects			
Valley Metro Expanded Maintenance Facility	GRTC	\$2,200,000	RSTP, Smart Scale
Transit Vehicles Projects			
Nine (9) Additional Vehicles (medium-term)	GRTC	\$5,274,000	RSTP, Smart Scale
Twenty-two (22) Additional Vehicles (long-term)	GRTC	\$14,740,000	RSTP, Smart Scale
NOTE: cost estimates in red were developed by staff using VDOT's Project Cost Estimating		\$121,456,708	