Vision List of Projects 15

A “Vision List”- not just a “Wish List”

Fiscally constrained transportation planning was integrated into the MPO transportation planning process with the adoption of the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991. Prior to ISTEA, MPO long-range plans began to increasingly resemble long “Wish Lists” of desired projects that had little actual funding. However, a new concern quickly took hold: “If project lists were to be strictly financially constrained, how would planning be visionary and relevant to a future that could have more funding available than originally anticipated?” This question led to the practice of developing an accompanying Vision List of projects to supplement the adopted fiscally constrained list of projects.

Vision lists vary depending on MPO and planning process. Some vision lists resemble the wish lists of old, while others are simply extensions of the respective fiscally constrained lists, assuming 20%, 50% or 100% additional funding than the fiscally constrained list. Both approaches have their pros and cons. The CLRTP 2035 uses a hybrid approach that is a combination of the two styles.

As of the writing of this plan, the budgets of all levels of government and the private sector economy are in a downturn. The fiscally constrained list of projects reflects these realities with a very conservative financial constraint. However, a federal infrastructure investment package may be forthcoming within a year of the adoption of this plan. A federal package could make more resources available than originally anticipated using the financial constraint. Therefore, the purpose of the CLRTP 2035 Vision List will be to contain worthwhile, progressive, and feasible projects that cannot fit under the CLRTP financial constraint. In other words, the Vision List contains projects that are ready to be amended into the fiscally constrained list of projects if the funds become available within the next few years.

Interstate System - DRAFT Vision List - April 2011

UPC	Jurisdiction	Facility Route # and Name	From:	To:	Length	Recommended Improvement	Projected Cost (2011 $$)	Previous Funding (before 2011)	Notes	Remaining project cost (2035 $$)	Bicycle, Pedestrian, and Greenway Comments	Transportation Demand Management (TDM) Comments
80056	Roanoke County	Interstate 73 - Roanoke County - Preliminary Engineering	N/A	N/A	N/A	Interstate 73 - Preliminary Engineering - General	$408,326,339	$2,463,000	Project carried over from 2011 constrained list.	$825,036,604	None.	
16591	Roanoke Co.	Interstate 81	Mile Post 135.9	Mile Post 138.6	2.7 miles	Interstate 81 - widen from 4 to 8 Lanes	$120,340,779	$2,558,000	Project carried over from 2011 constrained list.	$239,428,139	None.	
16593	Roanoke Co.	Interstate 81	Mile Post 144.5	Mile Post 147.45	2.95 miles	Interstate 81 - widen from 4 to 8 lanes	$105,536,017	$1,589,000	Project carried over from 2011 constrained list.	$211,302,884	None.	
53094	Roanoke Co.	Interstate 81	Mile Post 138.6	Mile Post 140.9	2.3 miles	Interstate 81 - widen from 4 to 8 lanes	$150,490,399	$1,358,000	Project carried over from 2011 constrained list.	$303,155,462	None.	
53095	Roanoke Co.	Interstate 81	Mile Post 140	Mile Post 143.1	3.1 miles	Interstate 81 - widen from 4 to 8 lanes	$196,442,639	$2,099,000	Project carried over from 2011 constrained list.	$395,060,604	None.	
53096	Roanoke Co.	Interstate 81	Mile Post 143.1	Mile Post 144.5	1.4 miles	Interstate 81 - widen from 4 to 8 lanes	$259,668,602	$2,546,000	Project carried over from 2011 constrained list.	$522,677,310	None.	
16595	City of Roanoke	Interstate 581 - Valley View Interchange Phase II	Mile Post 144.5	Hershberger Road (Exit 3)	1.09 miles	New Construction	$70,960,919	$3,871,000	Project carried over from 2011 constrained list.	$105,791,265	Provide Bike, Pedestrian, and Greenway connection on Valley View Blvd. across I-581.	

Primary System - DRAFT VISION LIST - CLRTP 2035 - April 2011

UPC	Jurisdiction	Facility Route # and Name	From:	To:	Length	Recommended Improvement	Projected Cost (2011 $$)	Previous Funding (before 2011)	Notes	Remaining project cost (2035 $$)	Bicycle, Pedestrian, and Greenway Comments	Transportation Demand Management (TDM) Comments
	Roanoke Co.	Route 419 Improvements Phase I	U.S. 220	Bernard Drive	1.1 mi.	Interchange improvements at U.S. 220, widen Rt. 419 to six lanes, add pedestrian and bicycling accommodations.	$36,805,740	$0			RVAMPO Bikeway Plan Corridor	
	Roanoke Co.	Route 419 Improvements Phase II	Bernard Drive	U.S. 221, Brambleton Avenue	1.2 mi.	Widen Rt. 419 to six lanes including pedestrian and bicycling accommodations.	$30,440,145	$0			RVAMPO Bikeway Plan Corridor	
	Roanoke Co.	Rt. 419, Electric Road - Southwest Activity Center Improvements	Bower Road	Grandin Rd. Ext.	0.4 mi.	Streetscape with pedestrian, bicycling accommodations.	$1,321,030	$0			RVAMPO Bikeway Plan Corridor	
	Roanoke Co.	Plantation Road	I-81	Williamson Road	1.0 mi.	Streetscape, pedestrian, bicycling, access management improvements.	$2,652,250	$0			RVAMPO Bikeway Plan Corridor	
	Various	Bicycling Improvements per Regional Bikeway Plan	Misc.				$2,000,000	$0				

Roanoke County Secondary - DRAFT Vision List - CLRTP 2035 - April 2011

UPC	Facility Route # and Name	From:	To:	Length	Recommended Improvement	Projected Cost (2011 $$)	Previous Funding (before 2011)	Notes	Remaining project cost (2035 $$)	Bicycle, Pedestrian, and Greenway Comments	Transportation Demand Management (TDM) Comments
15187	Route 1662 (McVitty Road)	Int. of Rt 1663	Int. of Rt 419	0.5 mile	Reconstruction & Bridge Replacement Over Mud Lick Creek	$10,315,603	$4,824,268	Project carried over from 2011 Constrained List	$7,599,124.41	Bike/Ped Accom. Recommended	
15188	Route 1663 (Old Cave Spring Lane)	South Int. Rt 221	Int. of Rt 1662	0.3 mile	Reconstruction, Drainage Structure on Branch of Mud Lick Creek	$2,898,649	$1,452,073	Project carried over from 2011 Constrained List	$349,263.84	Bike/Ped Accom. Recommended	
	Route 720 (Colonial Avenue)	Route 419	Ogden Road	0.9 mile	2 lanes with turn lanes	$8,219,475	$973,765	New Project	N/A	RVAMPO Bikeway Plan Corridor, evaluate options: a shared-use path on one side vs. sidewalks and on-street bike accom. Estimate reflects s-u path option.	
	Route 679 (Buck Mountain Road)	Route 766	0.04 Mi E. Rte 678	0.4 mile	Reconstruct 2 lanes and intersection with 220	$8,070,911	$1,647,000	Originally listed in 2007 YOE Amendment Constrained	N/A	RVAMPO Bikeway Plan Corridor	0 origins, 0 destinations within .5 mi.
	Route 634 (Hardy Road)	Vinton CL	0.01 Mi E Route 654	0.9	Reconstruction	$844,145	$0	Originally listed in 2007 YOE Amendment Constrained	N/A	Vinton section has bicycle lanes; Industrial park in area; some ROW being acquired for industrial park; BR Parkway passes over section. RVAMPO Bikeway Plan Corridor	3 origins, 0 destination within .5 mi.
	Route 613 (Merriman Road)	0.1 Mi. S. Rte 904 (Starkey Road)	Rte 1640 (Pine Acres Lane)	1.3	Reconstruct and Widen	$16,131,952	$450,311	Originally listed in 2007 YOE Amendment Constrained	N/A	RVAMPO Bikeway Plan Corridor	0 origins, 0 destinations within .5 mi.

Bedford County Secondary - DRAFT Vision List - CLRTP 2035 - April 2011

UPC	Facility Route # and Name	From:	To:	Length	Recommended Improvement	Projected Cost (2011 $$)	Previous Funding (before 2011)	Notes	Remaining project cost (2035 $$)	Bicycle, Pedestrian, and Greenway Comments	Transportation Demand Management (TDM) Comments
	Route 634 (Hardy Road)	Roanoke Co. CL	Route 619 (Turner Branch Road)	1.4 mile	Rural 4 Lane Divided - with Bicycle Lanes to match Roanoke County Component	$6,696,777	$0	Project Carried over from 2011 Constrained List	$12,741,250.16	Compare benefits of on-street bike accommodation vs. on a shared-use path on one side of the street .	

Botetourt County Secondary - DRAFT Vision List - CLRTP 2035 - April 2011

UPC	Facility Route # and Name	From:	To:	Length	Recommended Improvement	Projected Cost (2011 $$)	Previous Funding (before 2011)	Notes	Remaining project cost (2035 $$)	Bicycle, Pedestrian, and Greenway Comments	Transportation Demand Management (TDM) Comments
52803	Route 779 (Catawba Road)	0.19 Miles East of Route 672 East	0.24 Miles West of Route 672 East	NA	Intersection Improvements and Bridge Reconstruction (#6264) over Tinker Creek	$6,543,715	$2,853,443	Remaining project cost takes into account available anticipated money spent in timeframes between 2011 and 2035.	$5,462,996	RVAMPO Bikeway Plan Corridor	

City of Roanoke Urban System - Draft Vision List - April 2011

UPC	Facility Route # and Name	From:	To:	Length	Recommended Improvement	Projected Cost *	Bicycle, Pedestrian, and Greenway Comments	Transportation Demand Management (TDM) Comments
	Campbell Avenue	Williamson Road	Norfolk Avenue	0.58 mile	Urban 3 Lane**	$4,449,415	City of Roanoke has a Complete Streets Policy	
	Colonial Avenue	Brandon Avenue	Winding Way	1.40 miles	Urban 3 Lane**	$19,069,678	City of Roanoke has a Complete Streets Policy	
	Norfolk Avenue	Campbell Avenue	Wise Avenue	0.11 mile	Urban 3 Lane**	$720,351	City of Roanoke has a Complete Streets Policy	
	Williamson Road Project #1	Orange Avenue	Angell Avenue	1.85 miles	Urban 3 Lane or an Urban 4 Lane section to be determined in design stage.	$41,944,803	Cost estimate includes bicycle lanes for entire length for cost estimating purposes. Actual bicycle accomodation may be other accomodation other than bicycle lane including but not limited to Sharrow or wide outside travel lane.	
	Wise	13th Street	East City Limit	0.70 mile	Urban 2 Lane**	$7,714,865	Same comment as above	
	Cove Road Project #1	Peter's Creek Road	Hershberger Road	1.48 mile	Urban 2 Lane**	$14,275,470	Turn lanes at selected locations and same bicycle comment as first item.	
	Cove Road Project #2	Hershberger Road	Lafayette Boulevard	0.75 mile	Urban 2 Lane**	$4,575,662	See bicycle comment from first item.	
	King Street	Gus Nicks Boulevard	Orange Avenue	1.44 miles	Urban 2 Lane**	$15,846,663	See bicycle comment from first item.	
	Shenandoah Avenue	West City Limit	24th Street	2.08 miles	Urban 2 Lane**	$22,935,597	See bicycle comment from first item.	
	Plantation Road	Orange Avenue	Hollins Road	1.77 miles	Urban 2 Lane**	$19,495,098	See bicycle comment from first item.	
	Salem Turnpike	36th Street	24th Street	1.19 miles	Urban 2 Lane**	$11,529,861	See bicycle comment from first item.	
	Hershberger Road Project #1	Williamson Road	East City Limits	0.59 mile	Urban 2 Lane**	$5,673,693	See bicycle comment from first item.	
	Hershberger Road Project #2	Peter's Creek Road	Cove Road	1.34 miles	Urban 2 Lane**	$12,902,666	See bicycle comment from first item.	
	Williamson Road Project #2	Hershberger Road	North City Limits	0.55 mile	Urban 4 Lane***	$12,476,184	See bicycle comment from first item.	
	Garden City Boulevard	Yellow Mountain Road	Davenport Road	0.74 mile	Urban 2 Lane**	$7,137,735	See bicycle comment from first item.	
	Valley View Western Connector	Valley View Extension	Hershberger Road	1.31 miles	Urban 4 Lane Divided - New Terrain	$27,754,205	Existing Greenway in vicinity and see bicycle comment from first item.	
	Transit and Transit Accessibility Improvements				Surface transportation funds to be flexed over to support bus shelters, bus pullouts, bus stop accessibility and other transit enchancements.	To be determined	City of Roanoke has a Complete Streets Policy	
	Mobility and Accessibility Improvements				Bike lanes, shared use paths (greenways), sidewalks, curb and gutter, and other pedestrian and bicycle enhancements.	To be determined	City of Roanoke has a Complete Streets Policy	
	Signal and ITS Improvements				Interconnection and coordinated signal systems and miscellaneous ITS improvements.	To be determined	City of Roanoke has a Complete Streets Policy	
	Intersection and Miscellaneous Spot Improvements				Isolated improvements, additional turn lanes, geometric imprivements, and other minor physical improvements.	To be determined	City of Roanoke has a Complete Streets Policy	
	Franklin Road Reconstruction	King George Street	Elm Avenue	0.48 mile	Urban 2 Lane**	$4,274,366	See bicycle comment from first item.	

* Originial 2009 cost estimate provided by the City of Roanoke recalculated at 3% interest for 2 years from 2009 to 2011 Current Dollars.
** Urban 2 and 3 lane cost estimates assume sidewalk or other pedestrian accomodation, curb and gutter and bicycle accomodations - see Bicycle comment for first item for more details.
*** Urban 4 lane cost estimates also assume pedestrian and bicycle accomodations in cost estimate.

City of Salem Urban System - Draft CLRTP 2035 - Vision List - April 2011

UPC	Facility Route # and Name	From:	To:	Length	Recommended Improvement	Projected Cost (2011 $$)	Previous Funding (before 2011)	Notes	Remaining project cost (2035 $$)	Bicycle, Pedestrian, and Greenway Comments	Transportation Demand Management (TDM) Comments
52076	Route 11 - Apperson Drive	at Route 419	at Route 419	0.300 Mile	Reconstruction and Intersection Improvements	$36,996,000	$3,943,000			RVAMPO Bikeway Plan Corridor	
78751	Route 11 - Colorado Street	Colorado Street over Roanoke River	Colorado Street over Roanoke River	N/A	Bridge Replacement	$4,666,000	$4,875,000			RVAMPO Bikeway Plan Corridor	
	City of Salem	Apperson Drive Bridge #1800 over Roanoke River	Near Cook Dr.		Bridge Replacement	$3,116,340				RVAMPO Bikeway Plan Corridor	
8753	Route 460 - (Main Street)	Route 311 - Thompson Memorial Blvd.	0.05 Miles East Intersection Kessler Mill Road	1.23 Miles	Minor Widening to 3 Lanes with Curbs & Sidewalks	$10,777,000	$10,241,000			RVAMPO Bikeway Plan Corridor	
	Roanoke River Crossing	4th Street or West Main	West Riverside Drive	N/A	Potential Bridge connecting roadway	$13,136,939	$0				

Town of Vinton Urban System - Draft Vision List - April 2011

UPC	Facility Route # and Name	From:	To:	Length	Recommended Improvement	Projected Cost	Bicycle, Pedestrian, and Greenway Comments	Transportation Demand Management (TDM) Comments
	WALNUT AVE. IMPROVEMENT	0.02 mi. east 5th Street	First Street	0.33 mi.	Urban 2-lane, curb, gutter, and add pedestrian & bicycle accomodation.	$1,838,100	RVAMPO Bikeway Plan Corridor	
	MOUNTAIN VIEW ROAD IMPROVEMENT, Phase 1	North Town Line	0.08 mi. south Ramada Road	0.44 mi.	Urban 2-lane, curb, gutter, and add pedestrian & bicycle accomodation.	$3,948,000	RVAMPO Bikeway Plan Corridor	
	MOUNTAIN VIEW ROAD IMPROVEMENT, Phase 2	Washington Ave.	0.08 mi. south Ramada Road	0.72 mi.	Urban 2-lane, curb, gutter, and add pedestrian & bicycle accomodation.	$5,702,000	RVAMPO Bikeway Plan Corridor	
	TRAFFIC SIGNAL SYNCHRONIZATION, Route 24, S. Pollard St., & Washington Ave. Corridors	West Town Line	East Town Line	2.52 mi.	Synchronize 11 traffic signals to improve phasing as system. Replace loop detectors with video detection.	$1,265,000		
	S. POLLARD ST. ENTRANCE CORRIDOR IMPROVEMENT	Virginia Ave.	Cedar Ave.	0.09 mi.	Acquire ROW, add right turn lane from westbound Virginia Ave. replace traffic signal, install curb, gutter, sidewalk, and landscaping.	$2,400,000	RVAMPO Bikeway Plan Corridor	
	WASHINGTON AVE. PEDESTRIAN & BICYCLE ACCESS IMPROVEMENTS, AND STREETSCAPING ENHANCEMENTS	Bypass Road	East Town Line	0.54	Install new sidewalks, bike lanes, and landscaping.	$1,100,000	RVAMPO Bikeway Plan Corridor	
	WASHINGTON AVE. PEDESTRIAN & BICYCLE ACCESS IMPROVEMENTS, AND STREETSCAPING ENHANCEMENTS	Mountain View Road	Bypass Road	0.25	Install new sidewalks, bike lanes, and landscaping.	$425,000	RVAMPO Bikeway Plan Corridor	
	BYPASS ROAD, PEDESTRIAN & BICYCLE ACCESS IMPROVEMENTS, AND STREETSCAPING ENHANCEMENTS	Hardy Road	Washington Ave.	0.31	Install new sidewalks, bike lanes, and landscaping.	$580,000	RVAMPO Bikeway Plan Corridor	
	VIRGINIA AVE. & THIRD STREET, INTERSECTION IMPROVEMENT	Virginia Ave.	Virginia Ave.	0.08	Acquire ROW, add right turn lanes, replace traffic signal, install curb, gutter, sidewalk, and landscaping.	$6,250,000	RVAMPO Bikeway Plan Corridor	

Transportation Demand Management Projects

TDM projects are often excellent candidates for amendment into the fiscally constrained list of projects. Park and Ride lot expansion or construction projects are typically focused on a limited number of parcels and can be engineered and constructed relatively quickly. A recent Park and Ride utilization report (separate document) finds that the region's Park and Ride lots are successful, and some are overcapacity with patrons parking on shoulders or grassy areas.

Project	Project Description	Improvement	Estimated Cost	Notes
Exit 150 (Interstate 81) Park and Ride Relocation	The existing park and ride lot currently serves an average of 20 users with a capacity of 14 spaces.	Create a new lot of 50 spaces.	**$240,000** (Based on 2007 VDOT Cost Estimate Worksheet.)	$3,000 per Space plus 60% ROW estimate based on land-use.
Exit 140 (Interstate 81) Park and Ride Expansion	The existing park and ride lot has 58 spaces; bus serves an average of 74 vehicles with vehicles overflowing spaces and parking on grass.	Expand from 58 to 100 spaces and add bus shelter for Smart Way.	**$213,600** (Based on 2007 VDOT Cost Estimate Worksheet.)	42 new spaces, 60% ROW estimate and $12,000 for bus shelter.
New Exit 141 (Interstate 81) Park and Ride	Add a 30 space park and ride lot at Exit 141 (I-81 and Route 419) with bus shelter to accommodate possible future route 419 transit service.	New 30 space lot with bus shelter.	**$156,000** (Based on 2007 VDOT Cost Estimate Worksheet.)	30 spaces, 60% ROW estimate and $12,000 for bus shelter.
New Route 220 Park and Ride	Add a 30 space park and ride lot in Southern Roanoke County to serve commuters along Route 220 North of Boones Mill.	New 30 space lot with bus shelter.	**$156,000** (Based on 2007 VDOT Cost Estimate Worksheet.)	30 spaces, 60% ROW estimate and $12,000 for bus shelter.

Passenger Rail Projects

Passenger rail is often cited as a needed project in Focus Group discussions. The concept of passenger rail has also received extensive support in Touch Screen Kiosks results (see chapter 3). The following planning level cost estimates are in current dollars and come from VDRPT sources:[10]

Project	Project Description	Estimated Cost	Notes
Rolling Stock	Rehabilitation of Equipment	$8,000,000	
Roanoke/O. Winston Link Station	Station and Platform Improvements	$37,500,000	
Roanoke Area Track	Track and support/storage facilities	$6,700,000	
Mail Line Track	Lynchburg to Roanoke main line track upgrades	$53,700,000	It is difficult to separate main- line upgrades that fall within CLRTP 2035 boundary.
Bus Connector Service	Amtrak Thru-way bus service	$661,000 total ($310,000 estimated subsidy)	Estimated yearly cost and subsidy for entire Lynchburg to Bristol Segment

10. Cost estimates provided in 01/15/2009 e-mail from Kevin Page VDRPT, Chief of Rail Transportation. For more information see "2008 Statewide Rail Resource Allocation Plan, December 15, 2008" www.drpt.virginia.gov/studies/default.aspx

Bus Connector Service would be a temporary connection to the existing Amtrak service in Lynchburg, Virginia. Thru-way service is a quick way to get a basic level of service. Items 1-4 would supersede thruway service once operational.

Public Transportation Projects

Public Transportation projects can include service improvements on existing public transit routes, service expansion to new areas, or new types of service altogether.

Project	Project Description	Estimated Cost	Notes
Roanoke to Franklin County Commuter Service	Two (2) over-the-road coaches	$600,000	Estimated cost in current year $
Roanoke to Franklin County Commuter Service	Yearly operating support for commuter service	$300,000/year	Estimated yearly cost in current year $
Downtown Streetcar	Steel wheel on steel rail streetcar to connect Downtown with Biomedical Park on Reserve Avenue	$25,000,000	