



**Northern Virginia Transportation Authority**  
*The Authority for Transportation in Northern Virginia*

**Thursday, June 8, 2017**  
**7:00pm**  
**3040 Williams Drive, Suite 200**  
**Fairfax, VA 22031**

**AGENDA**

- I. Call to Order** Chairman Nohe
- II. Roll Call** Ms. Speer, Clerk
- III. Minutes of the May 11, 2017 Meeting**  
*Recommended action: Approval [with abstentions from those who were not present]*

**Presentation**

- IV. Updating the Region's Long-Range Transportation Plan**  
Ms. Backmon, Executive Director

**Action**

- V. Approval of the Release of the TransAction Plan Draft & Associated Project List for Public Comment**  
Mr. Jasper, Principal Planner  
*Recommended action: Approval of the Release of the TransAction Plan Draft & Associated Project List for Public Comment*
- VI. Amendment of Policy 9 – Debt Policy** Mayor Parrish, Chair, Finance Committee  
*Recommended action: Amendment of Policy 9*
- VII. Amendment of Policy 17 – Capital Asset Accounting**  
Mayor Parrish, Chair, Finance Committee  
*Recommended action: Amendment of Policy 17*
- VIII. Approval of Policy 28 – Responses to Information Requests from Candidates for Political Office** Ms. Hynes, Chair, Governance and Personnel Committee  
*Recommended action: Approval of Policy 28*
- IX. Approval of Revisions to Employee Handbook**  
Ms. Hynes, Chair, Governance and Personnel Committee  
*Recommended action: Approval of Revisions to Employee Handbook*

- X. **Approval to Enter into Program Management Agreement with the Virginia Department of Transportation** Ms. Backmon, Executive Director  
*Recommended action: Approval to Enter into Program Management Agreement*

- XI. **Approval of Call for Projects for the I-66 Outside the Beltway Concessionaire Payment** Ms. Backmon, Executive Director  
*Recommended action: Approval of Call for Projects*

### **Discussion/Information**

- XII. **Finance Committee Report** Mayor Parrish, Chair
- XIII. **Governance and Personnel Committee Report** Ms. Hynes, Chair
- XIV. **Planning & Programming Committee Report** Chairman Nohe, Chair
- XV. **Planning Coordination Advisory Committee Report** Supervisor Buona, Chair
- XVI. **Technical Advisory Committee Report** Mr. Boice, Chair
- XVII. **Monthly Revenue Report** Mr. Longhi, CFO
- XVIII. **Operating Budget Report** Mr. Longhi, CFO
- XIX. **Monthly Investment Report** Mr. Longhi, CFO
- XX. **Executive Director's Report** Ms. Backmon, Executive Director
- XXI. **Chairman's Comments**

### **Closed Session**

- XXII. **Adjournment**

**Next Meeting: July 13, 2017 – Immediately Following Public Hearing  
on Draft TransAction Plan Update**

**5:30pm Open House**

**7:00pm Presentation with Public Hearing Immediately Following**

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**7:00pm**  
**3040 Williams Drive, Suite 200**  
**Fairfax, VA 22031**

**MEETING MINUTES**

**I. Call to Order** Chairman Nohe

- Chairman Nohe called the meeting to order at 7:11pm.

**II. Roll Call** Ms. Speer, Clerk

- Voting Members: Chairman Nohe; Chairman Bulova; Chair Randall; Mayor Silberberg; Chair Fisette; Mayor Parrish; Mayor Meyer; Mayor Rishell; Delegate Minchew; Ms. Hynes.
- Non-Voting Members: Mayor Burk (departed 8:18pm); Ms. Cuervo; Ms. Mitchell (departed 8:34pm).
- Staff: Monica Backmon (Executive Director); Michael Longhi (CFO); Keith Jasper (Principal, Transportation Planning and Programming); Sree Nampoothiri (Transportation Planner); Harun Rashid (Transportation Planner); Carl Hampton (Investment & Debt Manager); Peggy Teal (Assistant Finance Officer); Camela Speer (Clerk); various jurisdictional staff.
- Chairman Nohe stated that Council Member Snyder was not in attendance due to a work commitment, adding that Council Member Snyder did attend the Governance and Personnel Committee meeting which occurred just prior to this evening's Authority meeting.

**III. Minutes of the March 23, 2017 Meeting**

- Chairman Bulova moved approval of the March 23, 2017 minutes; seconded by Mayor Parrish. Motion carried with nine (9) yeas and one (1) abstention [with Mayor Silberberg abstaining as she was not at the March 23, 2017 meeting].

**Presentations**

**IV. WMATA Governance, Operations and Financial Review**

Ray LaHood, Former US DOT Secretary

- Secretary LaHood addressed the Authority and outlined his plans for the Independent Review of the Washington Metropolitan Area Transit Authority (WMATA). He stated his intent to meet with WMATA stakeholders and work toward consensus on four major issues: 1-funding, 2- governance, 3-long term maintenance needs and 4-legacy costs. Secretary LaHood noted these efforts recognize that WMATA will always be an integral part of the region and that we all must work together to prepare ‘America’s Metro’ for the 21st century. In closing, he requested the Authority provide input on these issues and noted that he will be producing a report for Governor McAuliffe in the fall.
- Chair Randall stated that Secretary LaHood’s presence elevates the WMATA conversation and noted that his knowledge will be very valuable to the process. She stated that she appreciates Governor McAuliffe appointing Secretary LaHood to this position and Secretary LaHood accepting the task. Chair Randall noted that last year Mr. Wiedefeld had spoken to the Loudoun County Board regarding WMATA. She stated that she will be inviting him again this year and she invited Secretary LaHood to join him at this presentation. Secretary LaHood responded affirmatively.
- Chair Randall commented that Secretary LaHood had stated that the \$150 million allocated by the federal government is good. She acknowledged that this is a good start, but added that the five Virginia jurisdictions currently contributing to WMATA (not including Loudoun as it has not entered the WMATA compact yet) are contributing approximately \$170 million to operations and the Capital Improvement Plan (CIP). Chair Randall shared that the Virginia jurisdictions are contributing as much as the federal government and added that these contributions are similar to those of Maryland and the District of Columbia. She suggested the federal government should contribute more, considering Metro moves the federal government’s workforce. Chair Randall raised the question as to whether \$150 million from the federal government is enough, or if the region should accept this as a starting point and work toward a larger contribution. Secretary LaHood responded that a review needs to be done as to how this amount was established, adding that he is not sure how the contribution amount was determined. He stated that he does not believe this amount should be set in stone, particularly based on the contributions of Virginia and others. Secretary LaHood suggested that it needs to be determined what a fair and responsible contribution from the federal government might be. He stated that he would be looking at this to figure out what makes sense, adding that the amount should be reflective of the fact that Metro is the transportation system for the federal government. Secretary LaHood also observed that Metro is the transportation system for visitors from all over the country.
- Mayor Silberberg thanked Secretary LaHood for attending the NVTa meeting. She echoed Chair Randall’s statements regarding the federal government’s \$150 million contribution, noting that while this contribution is good, we should be seeking more. She suggested this allocation may be from many years ago and needs to be reassessed. Mayor Silberberg added that the region has much at stake in ensuring Metro is safe and reliable. She stated that



everyone is fully committed to Metro, but questioned how we move forward. Mayor Silberberg suggested the federal government's role needs to be more robust and that this is a national issue, as it affects the nation's capital.

- Chair Fisette thanked Secretary LaHood for attending the NVT meeting. He commented that former Mayor Williams has proposed a control board for WMATA oversight and suggested that many are now looking for a way to resolve WMATA's issues without a control board. He asked Secretary LaHood whether the possibility of a control board will be considered in his recommendations. Secretary LaHood responded that he will look at this option, noting that there are those who do not like the idea. He stated that a control board worked for Washington, D.C., making it a better city. He also stated that it is working in Boston, MA. Secretary LaHood offered that some of the issues that need to be dealt with are not going to be decided by a governing board composed of politicians, adding it may be impossible for the current governing structure to resolve some of the fundamental issues. He continued by sharing that Governor McAuliffe is not a fan of the control board, but added it needs to be considered as a way to address the toughest issues. Secretary LaHood continued that a control board could establish credibility, provide support for employees and provide confidence that funding requests will be reasonable and fair. Secretary LaHood stated the idea of a control board is not one he is promoting, but that it is worth looking at as it has worked in other places with similar issues. Chair Fisette asked if there are potential models for a control board and who would appoint members. Secretary LaHood responded there are some models, but that counsel will need to look at how this might work in this situation, concluding that if all of WMATA's issues could be resolved under the current system, they would already have been.
- Ms. Hynes expressed her appreciation for Secretary LaHood's engagement in this conversation. She noted that she had led the WMATA Governance Committee when it was established and that some changes had been made, but there were some that could not be made. She shared her observation that there is a strong need for technical people at the top of WMATA, people who understand Federal Transit Administration (FTA) rules, railroads and procurement. Ms. Hynes stated that given the peculiar funding mechanism of WMATA, even if a dedicated funding stream is established, it is unlikely that the involvement of localities in the funding system will go away. She noted that this is necessary to keep a connection to what is actually affordable to the jurisdictions. Ms. Hynes suggested there may need to be two steps to the process - a technical governance board that makes funding recommendations to a body which controls the funding, suggesting this might provide a different result than efforts that have been tried previously. She added that she is pleased Secretary LaHood is looking at different models, that the funding circumstances are unusual and that a tax is not going to automatically relieve the current financial arrangement. Ms. Hynes suggested that a review of what needs to be achieved, and for whom, will get to how the board needs to be structured in order to move forward. She commended Secretary LaHood's

work and wished him the best, adding that it is in the best interest of all as Metro is vital to our economy.

- Chairman Bulova welcomed Secretary LaHood and expressed appreciation for his efforts to speak to all stakeholders in the region to get their various ideas. She stated that she hopes he will be able to corral the many on-going efforts to improve WMATA, noting there are currently several groups in the region making recommendations. Chairman Bulova mentioned that she chairs the COG Metro Strategy Group. She commended Secretary LaHood for his response when asked, at the Northern Virginia Transportation Commission (NVTC) meeting, what his recommendations regarding WMATA would be; noting that he had stated he was interested in hearing from the NVTC as to what it thinks is fair. She stated Secretary LaHood was right to ask this because the region has a responsibility to determine what is fair and equitable for itself, so that the region will know what to ask for. Secretary LaHood requested that the Authority provide input on the four issues he has raised, noting that in the end every regional body engaged in this issue will need to have buy-in if solutions are to be successful. Chairman Bulova concluded that we are looking forward to working with Secretary LaHood and thanked him for agreeing to lead this effort to work with Virginia, Maryland and the District of Columbia. She noted this is a big region, but that it can and does come together to work toward common goals, adding that the creation of WMATA is such an example.
- Chair Fisette commented on the unique WMATA funding structure existing for local Virginia governments. Sharing that when the WMATA compact was created, it was the local Virginia governments that had the funding responsibility, and that many constituents do not understand that Virginia's WMATA funding comes from local tax money, but Maryland's contribution does not. He stated that this was the state's decision and suggested there needs to be an equity created, with the local governments in Maryland having a responsibility. Chair Fisette acknowledged that the existing structure cannot be eliminated, so new efforts would need to be layered on. He stated that the existing funding structure is the reason there are local representatives on the WMATA Board, as those representatives usually decide locality tax rates. He added that it is not often that we invest that responsibility in another body to determine local tax rates. Chair Fisette concluded that there needs to be a way to create some greater equity among Virginia localities, Maryland and Washington, D.C.
- Chair Randall clarified that dedicated funding also needs to be bondable and sustainable.
- Mayor Silberberg stated that every heavy-rail system, similar to Metro, in the country has a dedicated revenue stream, except for WMATA. She noted this conversation has been going on for two decades.
- Chairman Bulova stated there are already dedicated revenues, noting that Maryland dedicates money from the state budget and the District of Columbia dedicates money from the District budget. However, in Virginia it is complicated; some money comes from the state, some from gas taxes raised in

Northern Virginia and managed by NVTC, some from locality general funds and bonds. She suggested that Northern Virginia is looking for ways to contribute its fair share through a source of revenue that is not going to unfairly burden businesses and residents already contributing funds to WMATA. Chairman Bulova shared a recent conversation with Senator Barker and Senator Feldman where it was suggested that Virginia's proposed use of bonds to fund WMATA might create political difficulty in Maryland where they are trying to make the case for a sales tax to support WMATA. She added that issues like this make a regional tax more difficult. Chairman Bulova concluded that Virginia would like to pay its equitable share, and that we would like to figure it out ourselves.

- Chair Randall stated that Virginia and Maryland are making roughly the same contribution to WMATA, noting that Virginia made the decision to create Metro tax districts and Maryland made the decision to pay at the state level. She suggested increasing funding to WMATA would be easier if Virginia funding came from the state level, and that we need a dedicated, sustainable, bondable revenue stream.
- Ms. Hynes stated that originally, Prince George's and Montgomery Counties were funding WMATA and that in later years Maryland took over funding.
- Chairman Nohe thanked Secretary LaHood for attending the meeting and stated that the NVTA looks forward to continuing this conversation with him.

**V. Route 28 Corridor Study**

Mr. Canizales, Director of Transportation, PWC

- Mr. Canizales, Director of Transportation, PWC, and Mr. Boice, JMT Project Manager and NVTA Technical Advisory Committee (TAC) Chair, briefed the Authority on the Route 28 Corridor Study, funded by the NVTA as part of its FY2015-16 Program. Mr. Boice stated that when complete, the study will identify infrastructure improvements to improve travel times through reduced congestion and improved network reliability within the Route 28 Corridor through Prince William County, the City of Manassas, the City of Manassas Park and Fairfax County. Additionally, the project will develop a plan to implement the selected preferred alternative. Currently four alternatives have been advanced for final analysis and public comment.
- Mayor Parrish thanked Mr. Canizales and Mr. Boice for briefing the Authority, noting it is important to several jurisdictions. He expressed optimism that the result of the study will be a solution that can be moved forward. Mayor Parrish added that the first meeting of the Route 28 Steering Committee was successful and that they are looking forward to the next steps.
- Mr. Canizales added that the NVTA has previously funded Route 28 projects in Prince William and Fairfax Counties, and the goal of this study is to fix the missing link between the existing projects.
- Mayor Parrish commented that the existing NVTA funded Route 28 project in Fairfax County has been very helpful for commuters in the City of Manassas.

- Mayor Rishell observed that much thought went into the four alternatives chosen for final analysis, adding that no alignment is perfect. She stated that she looks forward to a cost-effective solution.
- Chairman Nohe asked if the study is completed in September, will there be enough time for the preferred alternative to be included in the current TransAction update? Ms. Backmon responded all four alternatives are currently being analyzed as part of the TransAction update. She added the Call-for-Regional-Projects for the Six Year Program is anticipated to be issued at the October 12, 2017 Authority meeting, with resolutions due in January 2018.

## **VI. TransAction Baseline Conditions Briefing**

Mr. Jasper, Principal Planner

- Ms. Backmon briefed the Authority on the TransAction Baseline Conditions, noting that the process has included substantive conversations with the NVT A Committees, on-going public engagement, as well as technical analysis. Ms. Backmon pointed out the technical analysis is built upon simulated No-Build conditions in 2040. A draft plan for the year 2040 was developed which includes roughly 358 candidate projects which address regional needs. The projects have been developed through both bottom-up and top-down approaches. Ms. Backmon stated that the draft plan was compared against the No-Build conditions and four alternative futures. She explained the modeling approach, the No-Build scenario, the alternate futures and the draft plan. The total cost estimate for capital improvements under the draft plan is \$43.9 billion, with approximately half of this cost estimate associated with 23 mega projects, including Metro and VRE enhancements, Potomac River crossings, high-capacity improvements on major roadways, and Bus Rapid Transit (BRT) and/or Light Rail Transit (LRT) Services in the region, with the TransAction corridor analysis divided into 28 corridor segments.
- Mr. Jasper reviewed the analysis and data used to develop the alternate scenarios and the draft plan and briefed the Authority on the draft plan initial findings and impacts.

*(Mayor Burk departed.)*

- Chair Fisette asked how much the Authority has to spend on this plan. Ms. Backmon responded that the Authority has an estimated Pay-Go amount of \$1.5 billion for the FY2018-2023 Six Year Program, adding that the \$44 billion estimated in the draft TransAction Plan is for improvements through 2040. Mr. Jasper offered that through 2040, Authority revenues are projected to be less than half of the \$44 billion. He pointed out that the \$44 billion is comprised of the total estimated project cost for the entire project included in TransAction, noting that there will be other funding sources required for project implementation particularly for the extraterritorial projects. Chair Fisette reiterated the project costs included in this unconstrained plan reflect the full cost of all projects.

- Chair Fisette asked what the alternative scenarios showed us, suggesting that the alternative that proposed spreading out development was unusual. Mr. Jasper responded that the reason for using a dispersed land use scenario was to determine a counterbalance in the event that the effects of anticipated growth did not happen as anticipated through concentrated land use scenarios. Chair Fisette asked for clarification that the dispersed land use scenario was more dispersed than the local governments currently project. Mr. Jasper responded it was, as was the concentrated land use scenario. Chair Fisette asked for clarification that the dispersed land use scenario actually improved congestion related issues. Mr. Jasper responded that, given the population density of the region, the model showed that commuters might have shorter work trips with more diverse land use. He explained that this was more of an academic exercise to understand the relationship between the land use scenarios, adding that there would be no recommendation coming from the Authority based on land use, as this is not in the purview of the Authority. Mr. Jasper stated that the technology and changing travel demand scenarios were used to see what technology, like self-driving cars, might do for the transportation infrastructure. These scenarios showed that, without building any new projects, the amount of travel on the network and the way it occurred, could significantly reduce hours of delay and transit crowding. Mr. Jasper referred to Ms. Backmon's earlier comment that the Authority may choose to take some guidance on issues associated with these scenarios. He suggested there might be an opportunity for policy guidance to promote the good outcomes captured in the scenarios, as well as mitigate against the bad outcomes.
- Chair Fisette stated that the Transportation Planning Board's (TPB's) Long-Range Plan Task Force is also looking at long range planning and the notion that even with significant investment, congestion will still increase in the future, therefore we need to do something different. He noted that the Task Force is discussing not only projects, but also policies and programs; adding that technology and changes in travel behavior could potentially produce greater congestion reduction than investment in high dollar projects. Chair Fisette asked how the TransAction analysis could be used by the TPB, knowing that many scenario analyses have been done over the last 15 years, but many were not followed up on. He stated that there is a serious effort at the TPB to consider these options. He then asked if the NVTA is coordinating with the TPB in this process and if the TPB helped inform assumptions in the analysis. Ms. Backmon responded affirmatively, noting that TPB staff members are serving on the TransAction subcommittee. She added that the NVTA has been asked to present the TransAction update findings to the TPB Technical Committee in an effort to add another layer to the "what if" scenarios.
- Mayor Rishell asked if the \$44 billion in total TransAction project costs includes the total project costs for the extraterritorial projects, or only the Virginia portion. Mr. Jasper responded that the project totals are for the entire project, adding that at this time there is no way to determine the Virginia share. Mayor Rishell asked for clarification that these amounts would be reduced by

contributions from extraterritorial partners. Ms. Backmon responded that if the projects are implemented, the NVTa cannot fund the projects without the extraterritorial partners providing their share of the funding.

- Ms. Cuervo asked for clarification on the scenarios and the maps included in the presentation. Mr. Jasper responded that the data is still being analyzed and that the findings will be shared with the Authority at its June meeting. He added the initial conclusion drawn from the data is that the impact of the draft plan is reinforced by all of the scenarios, but to differing degrees.

*(Ms. Mitchell departed.)*

- Ms. Hynes asked what the next steps are, suggesting there is further interest in understanding some of the underlying assumptions in the draft plan and what has been learned from the scenarios versus the decisions made during the process. She stated that even without the mega projects, there is still \$20 billion in project needs. She noted that decisions will need to be made regarding various modes and the greatest benefit to cost ratios for projects. Ms. Hynes stated that the Authority works on a Call for Projects basis for its programming, asking how NVTa staff will help the Authority understand the most impactful projects in this moment, as well as in the future. Ms. Backmon stated that the TransAction Plan will provide quantitative data for the projects based on the performance measures. She added that qualitative discussions will take place after the Call for Regional Projects. Those discussions will include available funding, project readiness, multimodal distribution and geographic balance. Ms. Backmon concluded that the quantitative aspect of TransAction will help jurisdictions make informed decisions when submitting projects in response to the Call for Regional Projects, allowing project sponsors to see how the projects will fair when measured with other regional projects. The Call for Regional Projects will allow for qualitative considerations that may influence a project's inclusion in the Six Year Program.

### **Action**

#### **VII. Approval of Six Year Program (FY2018-2023) Framework**

Mr. Jasper, Principal Planner

- Ms. Backmon stated that the Six Year Program Framework has been vetted with the Technical Advisory Committee (TAC), the Planning Coordination Advisory Committee (PCAC), the Regional Jurisdiction and Agency Coordinating Committee (RJACC) and the Planning and Programming Committee (PPC).
- Mayor Parrish moved approval of the Six Year Program Framework; seconded by Chairman Bulova. Motion carried unanimously.

**VIII. Approval of Comments for the Commonwealth Transportation Board's Six Year Improvement Program (FY2018-2023)** Ms. Backmon, Executive Director

- Chairman Nohe stated that the Commonwealth Transportation Board's (CTB's) Six Year Improvement Program Public Hearing has already happened. Ms. Backmon added that the Public Comment Period is open through May 16, 2017, and the approved comments will be submitted through this process.
- Chair Randall moved approval of the comments on the Commonwealth Transportation Board's draft Six Year Improvement Program (FY2018 – 2023); seconded by Chairman Bulova.
- Delegate Minchew noted he had attended the Public Hearing. He raised a question regarding the status of the \$300 million expected to be returned to the region as a result of no public monies needed for the I-66 Outside the Beltway project. Chairman Nohe responded that this question would be answered during the Executive Director's report later in the meeting.
- Motion carried with nine (9) yeas and one (1) abstention [Ms. Hynes].

**IX. Approval of CMAQ/RSTP Reallocation for the City of Alexandria** Ms. Backmon, Executive Director

- Mayor Silberberg moved approval of the reallocation of Regional Surface Transportation Program (RSTP) funds for the City of Alexandria; seconded by Mayor Rishell. Motion carried unanimously.

**X. Approve Public Hearing Date and Public Comment Period for the TransAction Update** Ms. Backmon, Executive Director

- Ms. Backmon stated that with the Authority's approval, the Public Hearing for the draft TransAction Plan will be July 13, 2017, with the Public Comment Period from June 9 – July 23, 2017. She added there will also be jurisdictional Town Hall meetings during that time.
- Delegate Minchew moved approval of July 13, 2017, as the Public Hearing date for the draft TransAction Plan and June 9, 2017 through midnight on July 23, 2017 as the Public Comment Period for the draft Plan; seconded by Chair Randall. Motion carried unanimously.

**Discussion/Information**

**XI. Revisions to FY2018-2023 CMAQ/RSTP Strawman** Ms. Backmon, Executive Director

- No verbal report.

**XII. Planning & Programming Committee** Chairman Nohe, Chair

- No verbal report.

**XIII. Planning Coordination Advisory Committee** Supervisor Buona, Chair

- No verbal report.

**XIV. Technical Advisory Committee Report** Mr. Boice, Chair

- No verbal report.

**XV. Executive Director's Report** Ms. Backmon, Executive Director  
**A. CMAQ/RSTP Reallocation Requests for Fairfax and Loudoun Counties and the City of Alexandria**

- Ms. Backmon stated that the Ribbon Cutting for the Crystal City Multimodal Center will be held on Thursday, May 18, 2017, at 10am.
- Ms. Backmon stated that based on the Commonwealth's agreement with the Express Mobility Partners, there will be an upfront payment of \$500 million. This money, by state code regarding concessionaire payments, must benefit the users of the corridor. She noted the Virginia Secretary of Transportation's office has requested the Authority prepare project recommendations for the \$500 million. Ms. Backmon concluded more information will come to the Authority in June and that she is also working with the Council of Counsels on a draft memorandum of agreement between the Commonwealth and the Authority.
- Chairman Nohe added that there is more than a hope that the Authority will develop the project programming for the \$500 million upfront payment from the concessionaire. Ms. Backmon noted that the CTB, per the legislation, must approve the projects, therefore the NVTA would make the recommendations and the CTB would approve. Ms. Hynes stated that this is similar to the process for the revenues associated with the I-66 Inside the Beltway Project.
- Chairman Nohe clarified that NVTA staff will bring this process to the Authority next month. Ms. Backmon responded that she is working with the Secretary's office to ensure that the NVTA develops a process all can support. Chairman Nohe added that the NVTA will also control the \$350 million (net present value) of future toll revenues. Ms. Backmon confirmed this.

**XVI. Chairman's Comments**

- Chairman Nohe asked if there was any other business to come before the Authority.



- Chairman Bulova expressed concern regarding the issue of trucks on the I-66 Outside the Beltway Express Lanes, and shared Fairfax County's concerns. She noted that under the current agreement between the Commonwealth and Express Mobility Partners, trucks would not only be permitted on I-66, but would pay a higher toll, becoming a revenue source. Chairman Bulova suggested the NVTa also express Fairfax County's concerns. She noted:
  - ✓ Currently trucks are permitted on I-66.
  - ✓ Agreement calls for trucks to pay higher tolls to use the Express Lanes.
  - ✓ Some smaller trucks may not create a problem.
  - ✓ There is a recommendation that the Express Lane speed be 70mph.
- Chairman Bulova stated she is concerned about the stopping time necessary for large trucks travelling at 70mph. She added that a larger concern is that some of these vehicles could be carrying hazardous materials. Chairman Bulova recalled an incident on I-495 when a large tanker truck overturned and created major problems, including a fire that resulted in the need to rebuild an interchange and the evacuation of homes in the area. Chairman Bulova suggested Northern Virginia needs to weigh in on this concern, especially regarding trucks carrying hazardous materials.
- Chair Randall asked if Fairfax County had discussed these concerns with its General Assembly delegation. Chairman Bulova responded affirmatively, noting there have also been discussions with Secretary Layne.
- Mayor Meyer noted that the I-66 Outside the Beltway Project was conceptually modeled after the I-495 Express Lanes, adding that the I-495 Express Lanes prohibit trucks. He stated that during the project procurement process, both leading concessionaire candidates introduced the suggestion of allowing trucks at a higher toll rate to bring in more revenue. Mayor Meyer noted that the City of Fairfax has the longest stretch of residential neighborhood (Mosby Woods) along this stretch of highway. He stated that he shares Fairfax County's concerns about permitting trucks on the I-66 Express Lanes, especially at 70mph. He noted that based on the United States Department of Transportation (USDOT) statistics on interstate highway fatalities, truck accidents have a disproportionately high number of fatalities. Mayor Meyer suggested that while it is unrealistic to think we can turn back this model completely and ban trucks from the roadway, he suggested the NVTa share this as a regional issue through the lens of a 30-40 year term. Mayor Meyer noted that trucks leaving the tank farm in the City of Fairfax have overturned on neighborhood streets while traveling at 30mph. He suggested that if this can happen in a residential area, it is hard to imagine what kind of accidents might occur at twice the speed.
- Chairman Nohe stated that Prince William County has also taken a position of concern regarding trucks on the I-66 Express Lanes. He disclosed that he is an officer of a corporation that owns trucks that are just under the maximum weight requirement for the Express Lanes on I-95 and I-495.
- Mayor Meyer emphasized that his main concern is trucks carrying hazardous materials, due to the potential for "shelter in place" or evacuations that may be required of residents who live in the City of Fairfax.

- Ms. Hynes noted these trucks are currently traveling in the general purpose lanes on I-66. Mayor Meyer responded affirmatively, but noted at a lower rate of speed. Chairman Nohe clarified that the concern is speed of travel and the hazardous materials. Ms. Hynes stated that she believed the letter presented by Fairfax County did not directly address those concerns. Chairman Bulova noted there are several concerns expressed in the letter, adding that speed was not an issue at the time the letter was written.
- Mayor Meyer stated that the City of Fairfax Fire Station #33 is the lead, primary designated response station for I-66 from the Beltway to the Route 50 exit. He noted that the station has special training for hazardous material spills and injuries on the interstate. He suggested it is a prudent measure to limit or prohibit trucks that carry hazardous materials, adding that it would also have a benefit to the response teams.
- Mayor Parrish stated that he can support the concerns of both Chairman Bulova and Mayor Meyer, but noted that his company has for generations supplied gas and fuels using tanker trucks. He urged NVTa staff look at this issue closely. Mayor Parrish noted that trucks are already permitted on the general purpose lanes where traffic is often stop-and-go, suggesting that this may be more unsafe than traveling through the area at a constant rate of speed. He noted that stop-and-go traffic is difficult for large trucks, therefore free flow travel may be safer and suggested NVTa staff take this into consideration as well.
- Mayor Rishell stated that while this is a concern, we have no idea what is being transported on our railroads 24 hours a day.
- Ms. Cuervo mentioned that there is a very low percentage of truck traffic on I-66. Chairman Nohe stated it is about 4% of traffic. Ms. Cuervo added that during rush hour, the percentage is 1% or 2%. She stated that trucks are already allowed in the general purpose lanes and suggested that moving them to the Express Lanes would move them away from neighborhoods and lessen the noise disturbances created in stop-and-go traffic. Ms. Cuervo suggested research should be done as to what issues create accidents, noting that aggressive drivers and stop-and-go traffic are concerns that could be mitigated in free flow traffic. She suggested that statistics should be reviewed.
- Mayor Parrish agreed that NVTa staff should review accident statistics when making its recommendation.
- Chairman Bulova stated that the section of I-66 through Fairfax County is a very populated area and much meticulous work went into the widening design, working with the surrounding community to mitigate and shrink the impact away from the community. She suggested it is a concern that trucks may now try to fit into an area that was not designed for their use. Chairman Bulova suggested that the NVTa should look into this.
- Mayor Silberberg asked if Fairfax County was in support of the trucks being permitted in the general purpose lanes. Chairman Bulova reiterated it is the rate of speed that is the concern on I-66 Express Lanes, and the additional ramps being built for the project.

- Mayor Silberberg suggested that aggressive driving and stop-and-go traffic can also be seen on the Express Lanes. She requested more information regarding this concern. Chairman Bulova stated that the Fairfax County letter was sent to Secretary Layne in September. She acknowledged that we are unlikely to prevent trucks from using the I-66 Express Lanes, however, she suggested we might be able to have some impact on trucks carrying hazardous materials in lanes with a speed of 70 mph. She added that some of the ramps may need to be designed differently to allow for trucks.
- Mayor Rishell asked if the I-66 Express Lanes have been designed for truck use. Chairman Bulova stated that Fairfax staff has asked for clarification on this issue. Ms. Cuervo noted that busses were taken into consideration during the design process and are similar in size to trucks. She added that double trailers would not be allowed.
- Chairman Nohe directed Ms. Backmon to contact Commissioner Kilpatrick to discuss these issues and report back to the Authority. Ms. Backmon responded affirmatively. Chairman Bulova acknowledged this is a fair response. Mayor Silberberg suggested she would like to know the same information regarding the I-95/I-395 Express Lanes.

**XVII. Adjournment**

- Meeting adjourned at 9:06pm.

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Mayor Parrish, Chairman, Finance Committee

**DATE:** June 2, 2017

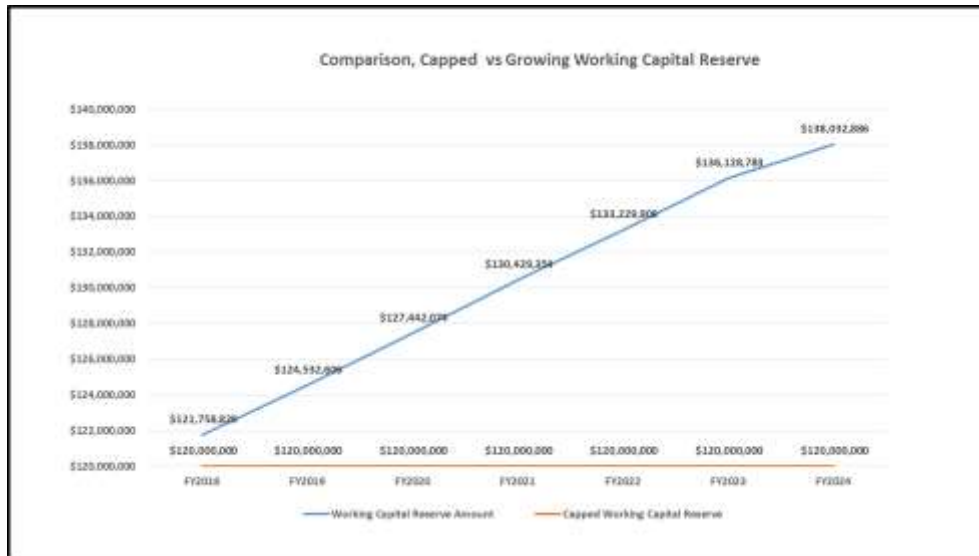
**SUBJECT:** Policy 9 – Debt Policy (Revision for Working Capital Reserve Cap)

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1. **Purpose:** To seek Northern Virginia Transportation Authority (NVTa) approval of a proposed cap to the Regional Revenue Fund Working Capital Reserve in Policy 9 – Debt Policy.
2. **Suggested Motion:** *I move Authority approval of a \$120 million cap on the Regional Revenue Fund – Working Capital Reserve, and related policy change to be effective July 1, 2017.*
3. **Background:**
  - a. The Authority's Policy 9 - Debt Policy (Section IV, 5, b.) currently requires a Working Capital Reserve (WCR) "...equal to at least six months of the budgeted, annual Regional Revenues."
  - b. The above policy also notes in the same section: "The WCR is not required by the Master Indenture; rather, it is a policy of the NVTa and is subject to change."
  - c. The purpose of the WCR is to manage any mismatches in the actual receipt of revenue and the disbursement of funds for debt service or project reimbursements.
  - d. The Authority's Debt Policy (Section IV, 5, c.) requires the NVTa to revisit the level of the WCR periodically in consideration of actual cash flow patterns and experience, liquidity expectations of the credit rating agencies consistent with the NVTa's current credit ratings, and actual experience with delays or disruptions, if any, to the Commonwealth's budget adoption and appropriations process.
  - e. The current WCR formula requires 50% of any year to year revenue increase to be added to the reserve rather than being available for PayGo project use.
  - f. For FY2017, the budgeted WCR requirement is \$120,286,655. For FY2018, the budgeted WCR requirement is \$117,293,829. NVTa staff estimates that revenue estimate revisions will require an increase of the WCR to \$121,758,829 during FY2018.
  - g. Total outstanding debt service payments for FY2018 through FY2034 (final year of debt service) is \$94,333,300.
  - h. As of March 31, 2017, the Authority is in a highly liquid position with cash/investment balances in the Regional Revenue Fund of approximately \$707.6

million. These funds are largely appropriated to regional transportation projects and are awaiting reimbursement requests from project sponsors.

- i. The Authority has experienced no delays or disruptions in the Commonwealth's budget adoption and appropriation process, since the inaugural debt issuance in December 2014.
- j. Based on current revenue estimates, under the current policy formula, the WCR will increase to approximately \$138 million by FY2024, as shown in the chart below.



#### 4. Discussion:

- a. The Authority and the Authority's Financial Advisor (PFM) recently had discussions with the three credit agencies that currently rate the Authority (Fitch Ratings, Moody's Investors Service and Standard and Poor's) regarding the potential cap of the WCR. The communication with the credit agencies revealed no negative credit pressure based on this proposed change.
  - i. **Fitch Ratings credit rating affirmation of AA+ with stable outlook.** As part of the credit rating discussion undertaken with the credit analyst, the potential of capping the WCR at \$120 million was discussed. Analyst feedback was that at this time, such a cap would have no negative implications on the Authority's credit rating.
  - ii. **Moody's Investors Service recently reviewed the Authority's financial position.** Moody's did not publish a public surveillance report in conjunction with the review. As part of the credit rating discussion a potential \$120 million cap on the WCR was discussed. The feedback was that at this time, such a cap would have no negative implications on the Authority's credit rating.
  - iii. **Standard and Poor's (S&P).** S&P has chosen not to undertake a formal credit review of the Authority. However, Authority staff and PFM have communicated the potential of placing a \$120 million cap on the WCR.

The feedback was that at this time, such a cap would have no negative implications on the Authority's credit rating.

- b. Re-evaluation of the WCR cap.** Any future Debt Policy update/evaluation will include an assessment of the WCR level. Additionally, part of this policy revision requires the WCR to be evaluated at least annually as part of the authority budget process. Further, the Debt Policy in Section IX, Item E., requires a review and update of the entire policy at least every three years. The last policy amendment occurred on June 25, 2015.
- c. Proposed Policy change.** The following is the proposed change to Section IV, 5, b. of the current Debt Policy:

Working Capital Reserve. The NVTa will maintain a Working Capital Reserve ("WCR") account in the NVTa General Fund equal to \$120,000,000.00. at least six months of the budgeted, annual Regional Revenues. Such funds may be used within a fiscal year to manage any mismatches in the actual receipt of revenue and the disbursement of funds for project construction to project implementing entities and to pay debt service. ~~As part of its budget process each year,~~ Not less frequently than annually during the NVTa's budget process, the NVTa will estimate the increase, if any, to the WCR requirement and fund such incremental increase within the course of ~~such the next~~ ensuing fiscal year. To the extent the WCR requirement is forecast to decrease in a given fiscal year, the NVTa may release such amounts within the course of such ensuing fiscal year provided that any debt service or debt service reserve fund requirements are fully funded in accordance with the Master Indenture. The WCR is not required by the Master Indenture; rather, it is a policy of the NVTa and is subject to change.

- 5. Fiscal Implications.** Capping the WCR at \$120 million will result in an increase in available PayGo of approximately \$18 million between FY2018 and FY2024.

**Coordination:**

NVTa Finance Committee  
Financial Advisor – PFM  
Bond Counsel  
Council of Counsels

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Mayor Parrish, Chairman, Finance Committee

**DATE:** June 2, 2017

**SUBJECT:** Revisions to Policy 17 – Capital Asset Accounting

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- I. **Purpose.** To seek Northern Virginia Transportation Authority (NVTa) approval of revisions to Policy 17 – Capital Asset Accounting. The proposed revisions to this policy account for the FY2017 establishment of an Equipment Replacement Reserve within the Operating Fund.
- II. **Suggested Motion.** *I move Authority approval of the revisions to Policy 17 – Capital Asset Accounting.*
- III. **Background.**
  - a. As part of the FY2017 Operating Budget the Authority established a reserve for the replacement of equipment, furnishings and fixtures.
  - b. This reserve recognizes that almost all of the Authority's equipment, furnishings and fixtures were purchased and placed in service at the same time.
  - c. The reserve is designed to provide funding for necessary replacements over time and avoid large one time operating budget spikes.
  - d. The policy revisions note the reserve level and annual contribution will be evaluated as part of the annual operating budget process.
  - e. The policy revisions note the reserve is to only be used to replace existing outdated or non-operational equipment, furniture and fixtures. This prevents the use of the reserve to expand capital assets.
  - f. The Northern Virginia Regional Commission has agreed to the shared use of their Geographic Information System (GIS) Plotter as part of a cost savings/avoidance strategy for both parties.
  - g. It is expected that the Authority will become the predominate user of the plotter and will therefore cause substantial wear on the equipment.
  - h. As part of future Authority Operating Budgets, capitalization of the replacement of the GIS plotter will be included.
  - i. Minor clarifications and updates were included in the proposed changes.

**Attachments:** Policy 17 – Capital Asset Accounting (With Draft Revisions Marked)

## **NORTHERN VIRGINIA TRANSPORTATION AUTHORITY**

### **Policy Number 17 - Capital Asset Accounting**

**I. Purpose.** This policy addresses capital asset accounting for Northern Virginia Transportation Authority's (NVTA) administrative assets. In order to assure the accurate recording and control of administrative assets, capital asset acquisitions must be classified and capitalized in a consistent manner, and periodic physical inventories must be taken.

### **II. Capitalization Guidelines.**

**A.** To qualify as a "Capital Asset" the asset must have an economic useful life of more than one year and an installed cost in excess of \$5,000. The total costs of acquiring and placing an asset in operation are capitalized. Such costs include purchase price (net of discount), freight and any installation costs.

**B.** Qualified capital assets should be classified and recorded in major office furniture and fixture categories. Asset classifications may include the following:

1. Office Furniture. Desks, chairs, credenzas, conference tables, bookcases, etc.
2. Office Equipment. Copier, telephone, postage meter, refrigerator, projector, etc.
3. Computer Equipment. Laptop computers, desktop computers, servers, processors, monitors, printers, software, etc.
4. Leasehold Improvements (Fixtures). Improvements to the leased offices occupied by the NVTA.

**C.** Betterments, while generally not applicable to administrative assets, may be capitalized if the expenditure materially increases the value of the asset and/or extends the economic life of the asset beyond the originally estimated life.

### **III. -Equipment Replacement Reserve**

**A.** Effective FY2017, NVTA established an Equipment Replacement Reserve within the Operating Fund to ensure funds are available for capital asset replacement. The contribution to the reserve will be determined during the annual budget process.

**B.** This reserve was implemented as virtually all of NVTA's capital assets were purchased and placed in service at the same time. Replacing a major portion of these capital assets at one-time would cause undue stress on the operating budget. This reserve is designed to provide funding for necessary replacements over time and to avoid large one-time operating budget spikes.



**A.C.** Expenditures considered repairs and maintenance are classified as operating costs and are chargeable to an expense account as incurred. Maintenance costs are the normal expenditures associated with keeping property in an efficient operating condition. Repair costs are incurred ~~as a result~~ because of damage to assets or impairment due to normal use. Normally those costs are incurred to maintain or restore an asset to an operable condition without increasing its expected useful life or productive capacity.

**D.** Capital asset expenditures will be charged against the Equipment Replacement Reserve as needed to replace outdated and/or non-operational capital assets only, once approved by the Chief Financial Officer.

#### **III.IV. Depreciation and Amortization Guidelines.**

- A.** Depreciation and amortization of capitalized “in-service” assets must be recorded annually. The calculation of this expense will commence with the first full month the asset is placed in service.
- B.** Depreciation expense is calculated on a straight-line basis over the estimated useful life of the asset and subtotaled by Asset Category. The entire asset cost will be depreciated, without regard to any anticipated residual value. Depreciable or “useful” lives must be reviewed periodically for continuing applicability.
- C.** **Chart.** Depreciable or Useful Life of Assets.

<b>Asset Category</b>	<b>Useful Life (yrs)</b>
Cell Phones	2
Computer Hardware & Peripherals	4
Office Furniture	7-10
Office Equipment	5-10
Leasehold Improvements	Life of the lease

- D.** Each capital asset must be entered on a capital asset Excel Schedule to facilitate the calculation of depreciation. The asset schedule includes the acquisition date, capitalized cost, the annual depreciation and the Total Accumulated Depreciation. This schedule must be reconciled to the general ledger control account on an annual basis.

#### **V. Annual Capital Asset Inventory.**

As a key control in the protective custody of property, a physical inventory will be taken annually by the NVTAs Administrative Assistant/Clerk. Each capital asset will be observed and its operating condition evaluated. Adjustments to the inventory for lost or damaged assets must be approved by the Chief Financial Officer.

## **VI. Disposal of Capital Assets.**

- A. Capital assets may be disposed of in a sale, retirement, recycling or replacement transactions. Approval must be granted by the Chief Financial Officer before an asset can be sold or retired disposed. Disposals are accounted for by crediting the asset account for the original cost of the asset, charging accumulated depreciation for the depreciation expensed to date, and recognizing any gain or loss on disposal of the asset. Approval from the Executive Director must be obtained to write off any asset due to loss or damage.
- B. Proceeds received upon the sale of an asset should be recorded and controlled by the Accountant in the same manner as all other receipts. The Accountant Assistant Finance Officer must record the disposal on the Capital Asset Excel Spreadsheet.

**Approved by the Finance Committee:** December 5, 2014

**Approved by Northern Virginia Transportation Authority:** December 11, 2014

Revision Approved by the Finance Committee: May 18, 2017

Revision Approved by Northern Virginia Transportation Authority:

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Mary Hynes, Chair, Governance and Personnel Committee

**DATE:** June 2, 2017

**SUBJECT:** Draft Policy 28 - Responses to Information Requests from Candidates for Political Office

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- I. **Purpose.** To seek Northern Virginia Transportation Authority (NVTa) approval of a draft policy intended to provide guidance to NVTa staff in addressing requests for information from candidates for political office.
- II. **Suggested Motion.** *I move Authority approval of Policy 28 – Responses to Information Requests from Candidates for Political Office.*
- III. **Background.**
  - a. During an election year, the Executive Director and NVTa staff may be asked to provide information to candidates for public office regarding NVTa policies, programs, funding, activities, actions and positions on various transportation issues.
  - b. This policy is intended to provide guidance in responding to political candidates' requests for information and/or meetings. The attached draft has been revised to respond to the comments expressed by members of the Authority during their January 2017 meeting.
  - c. The primary changes since the previous draft are:
    - i. Inclusion of a definition of a political candidate,
    - ii. Direction to use email and the Authority's website for dissemination of answers to candidates' questions.
  - d. The draft policy specifies that an Authority member's legal question of the Council of Counsels is exempt from the policy in order to preserve the attorney client relationship.

**Coordination:** NVTa Council of Counsels

**Attachment:** Policy 28 - Responses to Information Requests from Candidates for Political Office

**NORTHERN VIRGINIA TRANSPORTATION AUTHORITY**

**Policy Number 28 - Responses to Information Requests from Candidates for  
Political Office**

- I. **Purpose.** During the periods of time leading up to primary elections and to the general elections, the Executive Director and other NVTa staff may be asked to provide information to candidates running for public office regarding NVTa policies, programs, funding, activities, actions and positions on various transportation issues. This policy is intended to provide general guidance for use in responding to such questions and requests.
- II. **General.** Under direction of the Executive Director, the NVTa staff will respond to directives and other inquiries from Authority members including questions and inquiries requiring research on issues coming before the Authority. NVTa staff will continue to maintain a high level of customer service by attendance, as appropriate, at member jurisdictions' local town meetings and other meetings with Authority members.
- III. **Candidate Definition.** For this Policy, a political candidate is a person who has filed at their local Board of Elections as a candidate for a political office and is inclusive of candidates' representatives, associations, and political organizations.
- IV. **Special Provisions.** The following will guide responses to requests from candidates. The NVTa will respond to candidate requests for information by complying with the following provisions:
  - A. **Format of Request.** For clarity, requests must be in writing.
  - B. **No New Research.** Responses to requests for information must rely on existing, public documents. NVTa staff will not develop new information or undertake research for responses.
  - C. **Responses in Writing.** All NVTa responses will be provided in writing.
  - D. **All Responses Shared with Every Candidate.** All NVTa responses must be made available to every candidate. This access will be provided by placing copies of all questions and responses on the NVTa website.
  - E. **Use of E-Mail.** The above guidelines also apply to e-mail correspondence between candidates and NVTa staff.
  - F. **Meetings with Candidates for Office.** Because of the importance of clarity of communications and the need to share information among all candidates, meetings between individual candidates and staff are discouraged. However, should such meetings be necessary, staff is encouraged to get questions in writing in advance of the meeting. Such meetings should be opened, or made available, to all candidates. Staff shall produce a brief written summary of the meeting. Such meetings will be held at the NVTa office or at another suitable government location.

- G. NVTA Website.** Whenever possible, candidates should be directed to the NVTA's website (or that of member jurisdictions) for information. NVTA's website is an effective tool in making information equally accessible to all.
- H. Freedom of Information Act (FOIA).** FOIA requests shall be processed as required by NVTA Policy 5 – Freedom of Information Act Requests.
- I. Authority Member's Legal Questions.** Authority member's legal questions of the Council of Counsels are exempt from the policy in order to preserve the attorney client relationship.

Approved by the Governance and Personnel Committee: **May 11, 2017**

Approved by Northern Virginia Transportation Authority:

MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Mary Hynes, Chair, Governance and Personnel Committee

**DATE:** June 2, 2017

**SUBJECT:** Draft Revisions to Employee Handbook

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- I. **Purpose.** Seek Northern Virginia Transportation Authority (NVTa) approval of draft revisions to the NVTa Employee Handbook (attached).
- II. **Suggested Motion.** *I move Authority approval of the draft revisions to the NVTa Employee Handbook.*
- III. **Background.**
  - a. The NVTa Employee Handbook was approved by the Authority on December 11, 2014.
  - b. The attached draft revisions are the first proposed updates/changes to the Handbook since its December 2014 approval.
  - c. The purpose of the Employee Handbook is to provide information about the employment practices, procedures and policies of the NVTa. The Handbook describes how the NVTa is managed and provides a reference for NVTa staff on how to conduct business in support of the operation of the Authority.
  - d. Draft changes include (listed by volume):
    - i. Employee benefits (eligibility and benefit) established after December 2014, such as:
      1. Pre-Tax Benefit Plan
      2. Healthcare (Dental, Vision, Behavioral Health and Wellness Services)
      3. Retirement (referencing all available Virginia Retirement System Plans)
      4. Health Insurance Credit
      5. 457 Deferred Compensation
      6. Short and Long Term Disability
      7. Flexible Spending for Medical and Dependent Care
    - ii. Employee Performance Review with further development of the processes, responsibilities, action plans and appeals.
    - iii. Employee Leave and Holidays with clarifications and provision for permanent part time employees.
    - iv. Establishment of an administrative hierarchy under the general direction and guidance of the Executive Director, placing the day to day administration on the Chief Financial Officer.
    - v. Editorial corrections, updates and clarifications.

**Attachment:** NVTa Employee Handbook (with marked draft revisions)

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## **SECTION 1. GENERAL**

### **1.1 Purpose**

This Employee Handbook contains information about the employment practices, procedures and policies of the Northern Virginia Transportation Authority (NVTA~~or the Authority~~). It describes how the NVTA is managed and provides a reference for NVTA's employees on how to conduct business in support of the smooth operation of the Authority.

### **1.2 Role of the NVTA**

The Authority was created by the General Assembly on July 1, 2002 (SB 576), to offer a common voice for Northern Virginia on transportation and other issues that confront the region. The Authority embraces nine jurisdictions including: the counties of Arlington, Fairfax, Loudoun and Prince William; as well as the cities of Alexandria, Fairfax, Falls Church, Manassas and Manassas Park. The Authority membership is made up of seventeen (17) members as follows:

- a. The chief elected officer of the governing body of each of the counties and cities embraced by the Authority, or his or her designee.
- b. Two members of the House of Delegates who reside in different counties or cities embraced by the Authority.
- c. One member of the state Senate who resides in a county or city embraced by the Authority.
- d. Two citizens appointed by the Governor, one of whom shall be a member of the Commonwealth Transportation Board, who reside in a county or city embraced by the Authority.
- e. The Director of the Virginia Department of Rail and Public Transportation, or his or her designee (non-voting).
- f. The Commonwealth Transportation Commissioner, or his or her designee (non-voting).
- g. The chief elected officer of one town in a county which the Authority embraces (non-voting).

### **1.3 Updates**

The NVTA reached an important milestone in 2013 when the General Assembly passed a transportation funding bill (HB 2313) that provided a dedicated funding stream for transportation in Northern Virginia. This legislation coupled with the successful bond validation suit (BVS) determination enabled the NVTA to become fully staffed in May 2014. In the years ahead, many of the NVTA's functions will become more routine. Until then, the Authority is in a 'start-up' mode of operations, where many actions are being undertaken for the first time. Consequently, it is anticipated that this Employee Handbook will be updated from time to time as necessary. Updates will be communicated with all employees via written amendments or a revised handbook.

## SECTION 2. EMPLOYMENT PROCEDURES

### 2.1 General

The NVTA Executive Director is authorized to administer these employment policies as established by the Authority. The Executive Director provides oversight and guidance to the Chief Financial Officer (CFO) in the implementation and administration of delegated responsibilities. The CFO will establish and require the utilization of forms, processes and procedures necessary to the administration and manage ment of these personnel policies and procedures. Only the Executive Director has the authority and responsibility to hire or terminate employees. Aspects of the employee recruitment and selection recommendation process may be delegated to other employees.

Consistent with Title VII of the Civil Rights Act of 1964, as amended, the NVTA does not discriminate against employees in any aspect of employment or applicants for employment based upon race, color, religion, sex, national origin, age, disability or genetic information. The NVTA does not discriminate against employees or applicants for employment based on political affiliation, sexual orientation or gender identity.

In compliance with Title I and Title V of the Americans with Disabilities Act of 1990, as amended, the NVTA is committed to protecting qualified individuals from discrimination on the basis of disability in hiring, promotion, discharge, pay, fringe benefits, job training and other aspects of employment. Disability discrimination includes not making reasonable accommodations to the known physical or mental limitations of an otherwise qualified individual with a disability who is an applicant or employee, barring undue hardship on the Authority.

The NVTA will make reasonable accommodations upon request for qualified individuals with disabilities who can perform the essential functions of the job as outlined in the job description as long as such accommodations do not require an undue hardship on the Authority.

### 2.2 Job Descriptions

Job descriptions will be developed for each NVTA position. Job descriptions will be approved by the Executive Director and serve as the basis for advertising positions, employment interviews and selection for employment.

### 2.3 Application for Position

Applicants are expected to submit a resume that responds to the advertised job description. A cover letter expressing an applicant's perspectives, interest and qualifications for the position should also be provided.

### 2.4 Selection Process

It is intended that the system of personnel selection and employment is based on objective procedures, these policies will be in compliance with applicable Federal, State and local regulations, and the policies will be administered on an equitable and non-discriminatory basis. Recruitment for NVTAs positions will be conducted in a manner that assures open competition in that vacancies will be advertised publicly and filled through competition.

Employment applications or resumes will be ~~are~~ screened to assess whether candidates meet minimum position requirements as outlined in the job description. In the screening process, equivalent education and experience may substitute for one another on a year for year basis.

Expenses associated with any stage of the selection procedure (i.e. exams, tests, background, credit or license checks, etc.) will be the responsibility of the NVTAs. Candidates are typically responsible for travel expenses associated with the selection process, although reimbursement may be provided at the discretion of the Executive DirectorCFO.

Employees are selected for positions based on relative ability, knowledge, skills and suitability for the position. The selection procedure will be relevant to the position, job-related and necessary to appropriately assess candidates. Selection procedures must be consistent with equal employment opportunity standards and should maximize validity, reliability and objectivity. Selection procedures are to be applied uniformly among candidates at each stage of the selection process. The selection process objective is to hire the most suitable person for the job. Applicants may be required to permit credit checks, background checks, driver's license records and/or verifications.

In accordance with The Americans with Disabilities Act, the NVTAs provides reasonable accommodation to enable a qualified disabled person to perform the job, unless the accommodation would pose an undue burden on the Authority.

## **2.5 Probationary Period**

The probationary period is the final stage of the selection process during which job performance and suitability is evaluated. Supervisors are responsible for evaluating performance during probation.

The usual probationary period will be twelve (12) months beginning with the first day of employment. The Executive Director may impose, as a condition of employment, a longer or shorter period. The probationary period may be extended by the Executive Director, upon the recommendation of the CFO following discussions with the supervisor and employee.

The Executive Director can terminate employees without cause, at any time and without prior notice before the end of the probationary period when it is deemed to be in the best interest of the NVTAs.

## 2.6 New Hire Documentation

Prior to, but no later than, an employee's first day, standard new hire employment documentation must be completed. Employees are paid by direct deposit only.

Documentation includes:

- Employment Eligibility Verification Form I-9 (Immigration Reform and Control Act)
- Federal Form W4 and Commonwealth of Virginia Form VA-4 (payroll exemptions)
- Authorization to pay employee by direct deposit
- Banking information for direct deposit
- Healthcare, dental & vision enrollment
- VRS Retirement plan(s) enrollment form vrs-2
- Life insurance designation of beneficiary UNUM Group Disability enrollment
- Optional life insurance enrollment
- FLEX Flexible Spending & DCA Dependent Care Enrollment
- Emergency contact information

## 2.7 New Employee Orientation

Orientation will occur during the first week of employment, typically on the first day, and will consist of three components:

- Work responsibilities – conducted by the employee's supervisor
- All new employees will acknowledge receipt of this handbook and NVTAs policies.
- The NVTAs office procedures and policies – conducted by the Administrative Assistant/Clerk
- Office introductions and work station walk-through – conducted by the employee's supervisor ~~and/or the Administrative Assistant/Clerk.~~

Any outstanding employment documentation will be collected as part of orientation.

## 2.8 Personnel Files

Official Personnel Files (including records of pay) are centrally maintained as prescribed by the Chief Financial Officer. The retention and destruction of these files are in accordance with applicable Federal and State laws. Official Personnel Files contain information and documents sufficient to fulfill administrative and legal requirements and enforcement of personnel policies. It is intended that Official Personnel Files provide a complete employment history of service with the NVTAs.

The information may include, but is not limited to: employment applications, offer letters, Personnel Action Forms, performance related documents, formal disciplinary actions and documents related to any type of separation from the NVTAs.

The NVTa complies with the Virginia Freedom of Information Act which requires all public records (with certain exceptions set forth in the Act) be open to the people of the Commonwealth of Virginia. This may include information about employees, except that which is protected by law.

\_\_\_\_\_Employees may have access to their personnel file with advanced notice during normal \_\_\_\_\_business hours.

## SECTION 3. EMPLOYEE PAY PLAN

### 3.1 General

The pay plan is intended to be competitive with the labor market and other public and private sector employers, especially those of member jurisdictions. The pay plan will be equitable in that classification and levels of allocated compensation reflect relative levels of work, duties, knowledge, skills, abilities, education and experience, difficulty and responsibility; and functional basis, in conjunction with the position job description. It is also intended that pay will be established on an equitable basis without discrimination; procedures and work records will be utilized as necessary to ensure equitable and uniform administration and accountability of pay. All policies and personnel actions will be in compliance with the Fair Labor Standards Act (FLSA) and all other applicable federal and state regulations. NVTa employees are paid on a bi-weekly basis by direct deposit.

The Executive Director may restructure the organization by eliminating existing positions or creating new ones, subject to constraints of NVTa's approved budget. The Executive Director may reclassify an employee based on changed job responsibilities or performance. The Executive Director may also alter the paid hours of work or schedules for part-time employees. Employees whose jobs are eliminated, who are demoted or are assigned reduced paid work hours based on performance or changing needs of the organization shall be notified of such changes by the CFO and have the opportunity to discuss the change(s) with the Executive Director.

### 3.2 Full-time Employees

All NVTa employees are subject to FLSA regulations, although some positions may be exempt from FLSA wage and hour provisions (including overtime). Exemptions are typically executive, administrative or professional in nature. (Please refer to the FLSA regulations for a complete listing.)

Employees meeting one of the FLSA exemptions are categorized as 'Exempt Employees'. Exempt employees work a standard five (5) day forty (40) hour work week. Absences for Exempt employees shall normally be charged in increments of full days. Exempt employees working less than four (4) hours during a work day, shall submit the appropriate sick or vacation leave slip for the remaining non-worked hours.

Employees not specifically characterized as exempt under FLSA are categorized as 'Non-exempt'. Non-exempt employees work a schedule specified by their supervisor based on their position and are paid for all hours worked. Leave for Non-exempt employees shall be reported in fifteen (15) minute increments.

### 3.3 Part-time, Temporary or Contract Employees

A permanent part-time employee is defined as an employee with a routine work schedule that does not exceed twenty-nine (29) hours in a forty (40) hour work week, averaged within a payroll cycle. Acting within approved NVTAs budgets, the Executive Director may employ person(s) on a part-time, temporary or contract basis. Temporary and contract employees are not eligible for all benefits.

### **3.4 Salary Increases**

Annual salary increases are approved by the Executive Director based on performance evaluations, merit and the NVTAs operating budget.

### **3.5 Overtime and Compensatory Time**

#### **General**

The NVTAs overtime policies comply with those established under the Fair Labor Standards Act (FLSA) and the Code of Virginia. All hours worked beyond the authorized workday, workweek or regularly scheduled hours must be pre-approved by the supervisor. It is the supervisor's responsibility to ensure any hours worked in excess of the authorized scheduled hours are necessary in order to provide or maintain services, the work could not be delayed until the next authorized workday or work schedules could not be flexed to accomplish the work. The supervisor exercises control and management of work activity so that only authorized and directed work is performed.

#### **Non-Exempt Employees**

All hours that a Non-Exempt employee is permitted to work are subject to compensation, pursuant to FLSA. Overtime or compensatory compensation is due for time worked over forty (40) hours during the established seven (7) day work week for employees. Overtime is compensated at one and one-half times employee's regular rate of pay. Compensatory time is awarded at the rate of one and one-half times the number of hours that the employee works (excluding vacation and sick leave) in excess of forty (40) hours in any one established work week. It is preferred that compensatory time be taken in the same work week overtime is incurred, however, it can be taken up to one month later, with Executive Director's CFO approval. The Executive Director CFO can choose to pay the employee in overtime or compensatory time as the needs of the Authority require.

#### **Exempt Employees**

Employees exempt from FLSA are not entitled to overtime or compensatory compensation for hours worked over the forty (40) hour work week. However, an Exempt employee, with the pre-approval of the Executive Director CFO, may be awarded compensatory time at the equivalent of hours worked. No overtime payments will be made to exempt employees.

### **3.6 Separations**



To resign in good standing, at least ten (10) working days' notice to the NVTB from the employee is required. The Executive Director may withhold pay for one (1) day of vacation leave for each day of notice less than ten (10).

Employees who fail to report to work for three (3) consecutive days without authorized leave may be terminated. As many as ten (10) days of accrued vacation leave may be forfeited in such a case. Dismissal of an employee for poor performance, violation of administrative regulations or other causes requires a written notice to the employee which sets forth the reason(s). Appeals shall follow the procedure set forth in Section 11.3.

## SECTION 4. EMPLOYEE LEAVE AND HOLIDAYS

### 4.1 General

The NVTAs provision for leave is intended to be competitive with the labor market, member jurisdictions and other public and private sector employers. All leave must be requested in advance and approved by the employee's supervisor, unless it is impractical to do so due to illness or sudden personal emergency. Approved forms shall be forwarded to the ~~Administrative Assistant/Clerk~~ Assistant Finance Officer and ~~saved in the employee's personnel file~~ attached to the finalized payroll reports. If the leave request is denied, the employee shall be notified.

With the limited staff available to the NVTAs, employees are requested to be understanding in their scheduling of leave so that mission essential functions are maintained. Supervisors shall evaluate requests for leave based on the need to properly staff the office and complete work assignments.

### 4.2 Holidays

The following days are regular NVTAs paid holidays (12.5 days):

- New Year's Day (January 1)
- Martin Luther King, Jr. Day (Third Monday in January)
- Presidents' Day (Third Monday in February)
- Memorial Day (Last Monday in May)
- Independence Day (July 4)
- Labor Day (First Monday in September)
- Columbus Day (Second Monday in October)
- Veterans Day (November 11)
- Thanksgiving Day (Fourth Thursday in November)
- Day after Thanksgiving (Fourth Friday in November)
- Holiday (December 24 – half day)
- Holiday (December 25)
- Floating Holiday/Inauguration Day

Dates of above may vary when holiday falls on a weekend. Generally, if a holiday falls on a Saturday, the holiday will be observed on the preceding Friday. If a holiday falls on a Sunday, the holiday will be observed the following Monday. The Executive Director may grant additional hours of holiday leave in concurrence with Federal and Commonwealth changes. The Executive Director can flex holiday leave on an individual basis. Employees on leave without pay preceding and following a holiday may are not be ineligible from to receive ing holiday pay.

The floating holiday is on an annual basis and must be used by the end of each calendar year. If an employee fails to take their floating holiday each calendar year, it is

automatically forfeited. The Executive Director can extend this deadline. Any unused floating holiday is not paid out at the time of separation.

An employee may not earn paid holidays while on unauthorized leave, leave without pay, or if working less than their scheduled hours.

### **4.3 Vacation Leave**

Full-time permanent employees earn vacation at the rate of:

- 13 days annually with fewer than three (3) years of service;
- 19 ½ days annually with 3 – 15 years of service;
- 26 days annually with 15 or more years of service.

Vacation time for full-time employees may be accrued and carried over to next year at these rates:

- Zero (0) to ten (10) years of service, a maximum accumulation of 30 days or 240 hours.
- More than ten (10) years of service, the maximum accumulation is up to 40 days or 320 hours.
- The cut-off date is the end of the first pay period after January 1. At the end of the leave year, annual leave in excess of the above limits will be converted to sick leave.

Upon initial employment or at separation, no leave shall be earned for less than a full week of work.

No leave shall be earned for a week in which an employee is on leave without pay for more than one (1) day.

If a minimum resignation notice of two (2) weeks is given, upon separation an employee shall be paid for unpaid vacation leave in a lump sum. If the employee has not given proper notice or is terminated for cause, accrued leave is subject to forfeit.

### **4.4 Sick Leave**

Sick leave will be earned by full-time, permanent employees at the rate of four (4) hours for each bi-monthly pay period or 13 days per year. There is no limit on sick leave accrual.

Upon termination of employment, employees will not receive payment for accrued sick leave.

No sick or vacation leave will be earned for less than a full week of work.

No sick leave will be earned during a week in which the employee is on leave without pay for more than one day.

Sick leave may be used in the following cases:

- Actual sickness or disability of the employee that prevents effective performance of his or her duties;
- Necessary appointment with physicians, dentists or licensed practitioners and social workers;
- Illness in the immediate family, defined as spouse, son, daughter, adult dependent and elderly parents and any of these relations as a step.

A supervisor may require an employee to submit a certificate from a registered physician.

If the ~~Executive Director~~CFO determines that the sick leave request is not justified in accordance with these administrative regulations, he or she shall deduct the value of the absent time from the employees' accrued vacation leave or pay. For the employee to receive compensation while absent on sick leave, notice shall be given no later than four (4) hours after the scheduled start of the work day on which the absence occurs, unless the employee provides evidence that it was impractical to do so.

When an employee has exhausted accrued sick leave, the ~~Executive Director~~CFO may advance sick leave up to an amount equal to the employee's accumulated vacation leave. The encumbered vacation leave may not be used until the sick leave account is in balance.

#### **4.5 Donation of Vacation Leave for Use by Others as Sick Leave**

NVTA employees may donate a portion of their accrued vacation leave to other employees who have exhausted their sick leave. Such donations are strictly voluntary and will be allocated to the receiving employee on a dollar value basis.

#### **4.6 Civil Leave**

Employees shall receive time off for jury duty or emergency civilian duty in connection with national defense, up to fifteen (15) days annually. Employees who are requesting Civil Leave will be required to furnish a copy of the official summons for jury duty or witness service when seeking approval. Employees are not required to reimburse the NVTA for any court-provided expense reimbursement while on Civil Leave. Employees appearing in court either as defendant or plaintiff in a non-work related case are not eligible for Civil Leave.

#### **4.7 Military Leave**

Any permanent employee who is a member of the Armed Forces of the United States will be allowed leave with pay to the extent the NVTA pay exceeds military pay up to a maximum of fifteen (15) days annually for official training or active service. If the employee is involuntarily called to active duty, the Executive Director shall endeavor to provide the employee his or her same position or a comparable position upon return to work.

#### **4.8 Bereavement Leave**

Up to three (3) days of bereavement leave are provided for a death in the employee's extended family (defined as employee's spouse and either the employee's or employee's spouse's son, daughter, grandchild, brother, sister, parent, grandparent, or guardian) or others that, in the judgment of the ~~Executive Director~~CFO, comprise "extended family."

An additional two (2) days of bereavement leave are provided for a death of an immediate family member who resides outside the local area (outside local area is defined as more than 50 miles outside the Washington DC Metropolitan area).

#### **4.9 Adverse Weather/Emergency Leave**

The NVTa Executive Director will consider the actions of member jurisdictions in declaring snow (or other) emergencies. For example, at the discretion of the Executive Director, employees may be granted "liberal leave," in which they can take a vacation day after notifying their supervisor by telephone or email.

The Executive Director may declare an office closure, or send employees home early in the event of a major weather or other local emergency event. Such events may include loss of utility or HVAC services to the offices.

The Executive Director may direct staff to work from home or other appropriate convenient location in the event of a major weather or other local emergency which makes travel to the NVTa offices dangerous or impractical.

Whenever emergency conditions are forecast, employees should plan for the possibility of working remotely for the anticipated duration of the event. If employees work remotely, they shall notify the NVTa staff accordingly together with any others who may be affected by the employees' absences from the office.

#### **4.10 Absence without Leave**

An employee absent for three (3) days or more without notice to their supervisor may be subject to termination.

#### **4.11 Accrual of Leave by Part-Time Employees**

Employees are categorized as part-time if they routinely work less than thirty (30) hours in a forty (40) hour work week. Permanent part-time employees for any given length of service are eligible for paid leave. Temporary or Contract employees are not eligible for paid leave.

Permanent Ppart-time employees earn annual and sick leave on a prorated basis for any given length of service earn leave only in proportion to hours worked. Temporary or Contract employees are not eligible for paid leave.

Length of service is measured from the date of appointment to a permanent NVT A position (i.e. internships or other temporary positions do not contribute to the determination length of service).

Permanent employees working a part-time schedule will receive pay for all holidays, whether or not they fall on one of the employee's scheduled workdays, in proportion to the number of actual work hours during an average pay period. For example, forty (40) hours worked in an average two-week pay period would comprise 50 percent of a full 80-hour pay period, or four (4) hours of an eight (8) hour holiday.

#### **4.12 Family and Medical Leave Act (FMLA)**

The FMLA entitles eligible employees to take unpaid, job-protected leave for specified family and medical reasons with continuation of group health insurance coverage under the same terms and conditions as if the employee had not taken leave. NVT A elects to observe FMLA guidance to align benefits with Member Jurisdictions. Eligible employees are entitled to:

Twelve (12) workweeks of leave in a 12-month period for:

- the birth of a child and to care for the newborn child within one (1) year of birth;
- the placement with the employee of a child for adoption or foster care and to care for the newly placed child within one year of placement;
- to care for the employee's spouse, child, or parent who has a serious health condition;
- a serious health condition that makes the employee unable to perform the essential functions of his or her job;
- any qualifying exigency arising out of the fact that the employee's spouse, son, daughter, or parent is a covered military member on "covered active duty;" **or**

Twenty-six (26) workweeks of leave during a single 12-month period to care for a covered service member with a serious injury or illness if the eligible employee is the service member's spouse, son, daughter, parent, or next of kin (military caregiver leave).

Questions concerning an employee's eligibility under FMLA are to be directed to the Chief Financial Officer. Additional information concerning FMLA is available at the United States Department of Labor website.

## SECTION 5. EMPLOYEE BENEFITS

### 5.1 General

The NVTAs benefit plan is intended to be provided on an equitable, uniform and non-discriminatory basis and to be competitive with the labor market, member jurisdictions and other public and private sector employers. The NVTAs offers health care, dental, vision, wellness, retirement, life insurance and other benefits. All full-time regular employees are eligible to participate in NVTAs benefit plan.

### 5.2 Pre-Tax Benefit Plans

Sections 125 and 129 of the Internal Revenue Code enable the pre-tax treatment of some benefit contributions, within a qualified plan. Therefore, employee contributions to health and dental insurance and the flexible spending accounts including dependent care plans are exempt from FICA withholding, as well as federal and state income taxes (in most states). This pre-tax treatment increases take-home pay. The resulting reduction in taxable income has no effect upon ~~your~~ retirement benefits but may slightly reduce ~~your~~ monthly Social Security benefits upon retirement.

Section 125 of the Internal Revenue Code stipulates that benefit election changes are permitted only during the designated open enrollment period unless ~~you experience a~~ **qualifying change in status** event or special enrollment event ~~occurs~~. Examples of qualifying status events are marriage, divorce, death of a spouse or child, birth or adoption of a child, employment or termination of employment of a spouse, or change in employment status. ~~You have 60 days from the date of the qualifying event to make election changes~~ Election changes must be made within 60 days of the date of the qualifying event.

### 5.23 **Healthcare (including dental, vision, behavioral health and wellness services)**

All full-time regular employees may enroll in NVTAs sponsored health, prescriptions, dental and vision plans during their initial month of employment with coverage beginning on the first day of the following month or during the May open enrollment period with coverage effective July 1. A spouse and/or eligible dependent children (until the dependent child turns 26) may also be enrolled. New dependents must be enrolled within 30 days of marriage, birth or adoption, or enrollment is delayed until the next open enrollment period. Healthcare coverage is provided through the Commonwealth of Virginias *The Local Choice (TLC) Key Advantage with Expanded Benefits* program, administered by Anthem Blue Cross and Blue Shield. Employees have a choice between Comprehensive Dental or Preventive Dental Only coverage.

Full plan details can be found online at <http://www.thelocalchoice.virginia.gov/>.

In addition to medical care, healthcare coverage includes behavioral health, routine vision, eye glasses, contact lenses, well child, adult wellness & preventative care programs, dental

and prescription benefits. The NVTAF funds 80 percent of the monthly cost of healthcare coverage. The employees' contribution is automatically deducted from pre-tax earnings.

Healthcare benefits are administered on a plan year basis from July 1 through June 30. Open enrollment for health benefits occurs annually in the month of May. The healthcare plan is subject to change.

#### **5.34 Retirement**

All full time employees are required to participate in The NVTAF's retirement plan is provided through the Commonwealth of Virginia's Virginia Retirement System (VRS). Employees with a VRS membership date before July 1, 2010 and vested as of January 1, 2013 are eligible for enrollment in Plan 1. Employees with a VRS membership date before July 1, 2010 and not vested as of January 1, 2013 or a membership date after July 1, 2010 are eligible for enrollment in Plan 2. — Full plan details are available at <http://www.varetire.org/members/benefits/defined-benefit/index.asp>.

Full time employees with no previous VRS service credit whose membership date is on or after January 1, 2014 are eligible to participate in the Hybrid Retirement Plan. The Hybrid Plan combines a defined benefit plan with a defined contribution plan. Full plan details can be found at <http://www.varetirement.org/hybrid/publications.html>.

Participation in the Virginia Retirement Plan requires mandatory employee and employer contributions. Employee's mandatory 5% retirement contribution is automatically deducted from pre-tax earnings.

#### **5.5 Health Insurance Credit**

As participants in the VRS retirement plan, VRS provides a health insurance credit to assist the retiree with the cost of health insurance premiums. The credit is a dollar amount set by the General Assembly for each year of service that is added to the monthly retirement benefit. It ends upon the death of the retiree and cannot exceed the amount of the individual health insurance premium. For additional information on VRS's Health Insurance Credit please go to <http://www.varetire.org/retirees/insurance/healthinscredit/index.asp>

Eligibility Requirements:

Retiring with 15 or more years of creditable service from an eligible employer; or

Retiring on disability; or

Receiving a long-term disability benefit through the Virginia Disability Program (VLDP).

#### **5.46 Life Insurance**



As participants in the Virginia Retirement System, regular full time employees are automatically enrolled in the VRS Group Life Insurance Program with coverage of two times salary at no cost to the employee from the first day of employment. ~~Minnesota Life Insurance Company is the current provider of all life insurance benefits administered by VRS.~~

~~The VRS Optional Group Life insurance program provides an employee the opportunity to purchase additional life insurance protection through VRS. Employees can select coverage on themselves for an additional one, two, three or four times your salary (rounded to the next highest \$1,000), up to a maximum of \$750,000. Employees are eligible to participate in an optional life insurance plan at the employee's expense. In addition, employees who participate in optional life may also apply for optional group life insurance for a spouse, and/or eligible dependent children. Employee's optional life insurance premiums are automatically deducted from after tax earnings. Additional information is available at <http://www.varetire.org/members/benefits/life-insurance/optional-group-life-insurance.asp>.~~

## **5.7 457 Deferred Compensation Plan**

~~Regular full-time employees have the option of enrolling in the Commonwealth of Virginia's 457 plan offered through VRS. Deferred compensation is a pre-tax, optional, employee retirement savings plan. Taxes are deferred until funds are withdrawn. Employees contribute their own funds and select their own investment options that may be increased, decreased, stopped or restarted each month. Funds may be withdrawn only upon termination of employment. Additional information is available at [www.varetire.org/457](http://www.varetire.org/457)~~

## **5.58 Short Term and Long Term Disability**

### Virginia Local Disability Program (VLDP)

~~Employees enrolled in the VRS Hybrid Retirement Plan are automatically enrolled in the Virginia Local Disability Program (VLDP). VLDP provides income protection if an employee can't work because of a non-work-related or work-related illness or injury. VRS administers VLDP in conjunction with Reed Group, the third-party administrator for the program. Claims for short-term disability have a seven-calendar day waiting period. There is also a one-year waiting period for non-work related short-term disability coverage. Claims are paid at 60 percent of the employee pre-disability income. VLDP includes long-term disability coverage. The VLDP long-term benefit begins after 125 workdays of short-term disability. Additional information about VLDP can be found on the VRS website at: <http://www.varetire.org/Pdf/Publications/vldp-handbook.pdf>~~

### UNUM

~~Employees enrolled in VRS Plan 1 and 2 are enrolled in group short-term and long-term disability coverage through UNUM. Coverage is effective 90 days after hire date. Short-~~

term coverage provides a weekly benefit of 60% of weekly earnings to a maximum benefit of \$1,000 per week. The elimination period is zero days if the disability is due to an injury, or 7 days if due to a sickness. Long-term disability coverage provides 60% of monthly earnings to a maximum benefit of \$6,000 per month. Benefits begin after a waiting period of 90 days of disability. This benefit is provided at no cost to the employee.

#### Supplemental Individual Disability Insurance Plan (IDI)

NVTA provides all full-time regular employees with supplemental disability coverage that provides additional coverage to the group disability plans from VLDP and UNUM. The IDI plan offered through UNUM, coordinates with the group plans to provide additional disability coverage up to a maximum of 75% of monthly earnings. Coverage is effective 90 days after hire date. New employees will receive a customized enrollment kit from UNUM. The enrollment kit provides everything a new employee needs to understand the coverage available through the Group LTD plan and what coverage the new employee is eligible for under the supplemental IDI (individual disability insurance) offer. This benefit is provided at no cost to the employee.

(Hold pending authorization)

### **5.69 Flexible Spending for Medical Costs & Dependent Care**

An optional Flexible Medical Spending plan (FSA) -and a Dependent Care (DCA) plan are administered through Choice Strategies at no additional cost to employees. NVTA offers an FSA plan for all full-time regular employees that allow employees to elect to contribute up to the annual FSA Contribution Limit, currently at \$2,600, on a pre-tax payroll deduction basis into an FSA plan. Up to \$500 may be carried over to the next plan year.  
~~An optional Flexible Medical Spending plan and a Dependent Care plan are administered through Choice Strategies at no additional cost to employees.~~ NVTA also offers a DCA plan that permits employees to contribute up to \$5,000, on a pre-tax payroll deduction basis into a DCA plan for dependent care expenses. Employee contributions to these plans are automatically deducted from pre-tax earnings.—Full p. Plan details are available at <https://www.mywealthcareonline.com/choice-strategies/Home.aspx>.

All FSA and DCA spending limits contribution limits will be kept in compliance with IRS regulations.

### **5.710 Professional Development**

The NVTA provides financial support for licenses, ~~certifications~~ certifications, and professional development that are relevant to employees' work responsibilities. The NVTA also provides financial support for, and encourages employee participation in, the activities of professional and industry associations that are relevant to the NVTA's mission. The level of support (reimbursement) is determined by the Executive Director based on the benefit to the Authority.

### **5.811 Other**

Other benefits include free membership to the fitness center located at 3040 Williams Drive. A membership agreement, available from the Administrative Assistant/Clerk, must be completed and signed before using the facility, which is unsupervised and shared with other tenants.

## SECTION 6. EMPLOYEE PERFORMANCE REVIEWS

### 6.1 General

The NVTA is committed to fostering employee excellence and a high-performance workplace. To that end, employees shall be regularly assessed on the achievement of assigned goals, the performance of job duties and the demonstration of skill in core competencies. Performance reviews offer a mutually beneficial opportunity to provide feedback to, and receive suggestions from, an employee. The objective of performance reviews is to encourage high levels of performance and achievement, while identifying and mitigating any areas of under-performance. Performance reviews shall be in a written format approved by the Executive Director and shall become part of the employee's official personnel file.

### 6.2 Supervisor Responsibilities

Supervisors shall establish and communicate clear performance expectations and objectives for their employees and shall provide regular feedback to employees on their performance at least annually at the anniversary of an employee's hire date. Moreover, supervisors are responsible for ensuring that incidents of non-performance or substandard performance are timely addressed.

### 6.23 Annual Performance Review

Each employee will participate in a written annual performance review based on hire date. Additionally, a six-month performance evaluation may be conducted for new employees.

Performance reviews will be comprised of ~~three~~the following components:

- Employees must complete a ~~W~~ritten self-assessment and ratings using the NVTA Performance Review Template.
- Employees must address their major goals and accomplishments during the review period by providing a written update on the goals approved during the previous~~completed by each employee;~~ review. The employee should add a brief summary of any additional goals and accomplishments achieved during the review period.
- Employees must include goals for the next review period. These goals will be reviewed by the supervisor and discussed with the employee as part of the review process.
- The supervisor will provide a written assessment and comments on the employee's performance.
- ~~The review process will include a Written review conducted by the employee's supervisor; and~~
- ~~Face-to-face meeting~~Meeting between eachthe employee and their supervisor, resulting in an agreed written action plan for the upcoming year.

- The action plan will identify any employment-related goals and training requirements, and will serve as the basis for the employee's next annual performance review.

#### **6.4 Employee Response to the Performance Review**

Employees may submit a written response to their performance review, which shall be included in the employee's official personnel file.

#### **6.35 Ad hoc Performance Review**

An interim performance review is an optional written evaluation of the employee's job performance covering a portion of the performance review cycle. The supervisor may conduct an interim review at any time during the review cycle for any reason. ~~E~~The employee performance review is a continuous process and may occur on an as-needed basis as determined by their supervisor at any time to supplement the written annual review.  
Interim assessments shall be considered by the supervisor in completing the annual performance review. Interim assessments shall become part of the employee's Official Personnel File.

#### **6.5 Unsatisfactory Performance**

Specific incidents of unsatisfactory performance or non-performance of job duties shall be addressed by the supervisor throughout the performance assessment period, up to and including disciplinary action. Repeated incidents or serious incidents of unsatisfactory performance or non-performance of job duties shall also be addressed in the employee's annual performance assessment.

~~Employee performance review is a continuous process and may occur on an as-needed basis as determined by their supervisor at any time to supplement the written annual review.~~

## **SECTION 7. EMPLOYEE CODE OF CONDUCT**

### **7.1 General**

As a basic condition of employment, all employees have an obligation to conduct their official duties in a manner that serves the public interest, upholds the public trust and protects the NVTAs resources and reputation.

The NVTAs employees routinely interact with state and local elected officials, chief executives and staff of member jurisdictions, other transportation agencies, representatives from the financial sector, and the business community. Interaction may occur in formal committee meetings, large jurisdiction events and/or direct appointment settings to list a few.

Perceptions of the Authority may be influenced by the conduct of the NVTAs employees. Employees are expected to conduct themselves in a manner that demonstrates professionalism and integrity at all times.

### **7.2 No Smoking Policy**

Smoking in the NVTAs offices, to include any hallways, elevators, reception or conference spaces, is prohibited. Any employee who smokes is encourage to use the Authority provided health insurance wellness program to quit.

### **7.3 Alcohol and Drug-Free Work Place**

In an effort to provide a drug-free workplace and to comply with Federal and State regulations, the NVTAs prohibits employee consumption of alcohol and the use, distribution, manufacture or possession of illegal or controlled substances in any NVTAs worksite or work location, or while on duty or representing the Authority. Violation of this policy may result in immediate dismissal.

Employees at any time may request their Supervisor's assistance in accessing the counseling and/or treatment services available through the employee health insurance wellness plan. The NVTAs is not responsible for the costs of such counseling or treatment, beyond the medical insurance plan.

### **7.4 Sexual Harassment**

The NVTAs is committed to providing a work environment free of any form of sexual harassment or related intimidation. Sexual harassment is prohibited within the workplace, viewed as serious misconduct and subject to disciplinary action, up to and including termination. Sexual harassment is defined as any unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by a manager, supervisor, co-worker or non-employee (third party).

## **7.5 Other Unlawful Harassment**

Harassment on other grounds, including race, color, religion, national origin, age, disability, sexual orientation or gender identity is also prohibited. Harassment includes jokes, verbal abuse and epithets, degrading comments, the display of offensive objects, pictures, and other conduct that an individual might reasonably find to be offensive.

## **7.6 Reporting Complaint**

If an employee has a harassment complaint, the employee should tell the offender to stop the inappropriate behavior and report the complaint without delay or fear of reprisal to their supervisor. The NVTa will not tolerate any form of retaliation directed against an employee or third party who either files a complaint about discrimination, harassment or retaliation or who participates in any investigation concerning misconduct.

## **7.7 Conflict of Interest**

As a basic condition of employment, all employees have an obligation to conduct their official duties in a manner that serves the public interest, upholds the public trust and protects the NVTa's resources. Employees shall not engage in any behavior that provides a conflict of interest or the appearance of a conflict of interest. All NVTa employees will refer to the Authority's Conflict of Interest Policy. Request for interpretation of a possible conflict should be referred to the Chief Financial Officer.

## **7.8 Political Activity**

Employees have a right to vote as they choose, to express their opinion and to join political organizations. NVTa employees have the right to not be forced to take a political position as a condition of employment. Political activities can not take place during work hours or adversely affect the employee's ability to do his/her job or adversely affect the employee's department or co workers. NVTa resources will not be used for any political activities.

(See NVTa Policy 27 – Political Activity by Staff Members for further guidance.)

## **7.9 Gifts and Gratuities**

NVTa employees are subject to the provisions of the State and Local Governments Conflict of Interest Act which prohibits an NVTa employee from accepting money, gifts, gratuities, favor, service, business or professional opportunities that reasonably could influence performance of the employee's job duties, or loans from organizations, businesses, or individuals with whom he or she has official relationships regarding NVTa matters. These limitations are not intended to prohibit the acceptance of articles of negligible value that are distributed generally (e.g., a coffee mug), nor to prohibit employees from accepting conventional social courtesies that promote good public relations.

## **7.10 Electronic Communications**

The NVTAs electronic systems (e.g., e-mail, Internet, computers, cell phones and voice mail) are the property of the NVTAs. Employees have no right or expectation to privacy with regard to anything sent or received on these systems, services or devices. These systems, services or devices shall not be used for personal use (e.g., computer games). Employees shall not install any personal software on the NVTAs computers or cell phones. All NVTAs electronic equipment is subject to monitoring. Employees receiving any messages they believe to be inappropriate on any NVTAs systems should notify their supervisor. Please refer to NVTAs Policy ~~14~~22- Computer and Electronic Systems Use for a copy of the Employee/User Agreement.

## **7.11 General Department**

The NVTAs is a governmental organization with significant inter-action with elected and appointed officials, member agency staff, the general public and various advocacy and consulting groups. To provide the appropriate professional environment for the NVTAs operations and to enhance the working environment for the NVTAs staff, the following guidelines apply:

- Maintain offices and common areas in a clean and orderly manner;
- Minimize noise levels from conversations, radios and speaker phones so that other staff and conferees are not disturbed; and
- Dress in business or professional business casual attire appropriate for the context in which business is being conducted.



## **SECTION 8. External Contacts and Communication**

### **8.1 General**

As an employee, you represent the NVTa to the public and other government entities. When dealing with the public or other public entities, either in person, by telephone or in writing, you are expected to be professional, patient and courteous.

Contact/Communication between the NVTa staff and external entities/individuals will occur on a regular basis. It is important that any such contacts do not result in inconsistent or inaccurate communication, or are otherwise to the detriment of the NVTa or its ability to fulfill its mission.

Media contacts should be referred to the Executive Director or staff member designated to address specific areas. Requests for information or data which are non-routine or from outside the member jurisdictions should be referred to the Chief Financial Officer.

NVTa staff are not to make policy or other statements on behalf of the Authority unless specifically directed and approved by the Executive Director.

### **8.2 Communication with the NVTa Members**

The Executive Director is the primary point of contact with the Authority members unless selected staff (e.g., Chief Financial Officer) are specifically designated to work with a member or members on specific projects/activities. It is not unusual for a specific staff member to be requested to assist an Authority member in response to an inquiry. – The NVTa staff will refrain from initiating contact with Authority members, political or advocacy communities or the media unless directed by the Executive Director. Staff having contact(s) with the Authority members should always inform the Executive Director.

### **8.3 Contacts with Elected Officials (non-NVTa Members)**

In general, contacts with non-NVTa elected officials will be conducted in the same manner as described for members of the Authority.

### **8.4 Contacts with Participating Organizations and Committees**

The nature of the Authority's mission requires that the NVTa staff work with a myriad of organizations and committees. In doing so, it is essential that staff represent the NVTa's mission, policies and stated positions accurately.

Staff should not hesitate to defer questions to supervisors if they are unsure of the policy or procedural aspects in question. Issues that arise that may result in adverse perception of the NVTa or situations that are not supportive of the NVTa's role and policies should be reported with supporting documentation to the Executive Director as soon as possible.

## **8.5     Contacts with the Public**

The NVTa is a taxpayer-supported public agency. The public is our ultimate “client”. Politeness, professionalism and respect are appropriate at all times. All requests for information whether in writing, in person, or by telephone are equally important, and must be treated as such. For requests that are complex in nature and may possibly require additional research and/or discussion, ask the requestor to put his or her request in writing.

Under the Virginia Freedom of Information Act (FOIA), all official records (with certain exceptions set forth in the Act) are open for inspection by Virginia residents or media. The NVTa honors all Freedom of Information Act requests within the time specified by law. Such requests must be coordinated through the NVTa's Chief Financial Officer and Executive Director.

## **8.6     Contacts with the Media**

The NVTa’s Executive Director is the primary lead for communications with the media. All media inquiries will be referred to the Executive Director. In the Executive Director’s prolonged absence, inquiries should be forwarded to the Chief Financial Officer.

On a case by case basis, the Executive Director may direct staff to handle public and media inquiries.

## **8.7     Contacts with Contractors**

Private sector firms provide the NVTa with specialized capabilities and other support. The NVTa will benefit from competitively priced proposals from well-qualified firms. The NVTa’s approach to procurements is designed to encourage such activity. Employees must however be guarded in any contacts with contractors or potential contractors to avoid providing an unfair advantage.

## **8.8     Contacts with Candidates for Political Office**

For contacts with candidates for political office staff will follow NVTa Policy 28 – Responses to Information Requests from Candidates for Political Office. (Currently in draft form pending review by GPC and adoption by Authority possibly in June 2017.)

## **SECTION 9. OFFICE HOURS AND LOCATION OF WORK**

### **9.1 General**

Common understanding of “work rules” is essential to fair and equitable management. The purpose of this section is to provide a framework for this understanding.

The normal place of work is the NVTa office. While NVRC offices are open to the public between 8:30 am and 5:00 pm, Monday through Friday except holidays, the NVTa employees have unrestricted access to the office at all times.

### **9.2 Hours of Work**

The usual full-time paid workday of eight (8) hours is from 8:00 am to 5:00 pm, Monday through Friday, with one hour for lunch.

A supervisor may permit a work schedule other than the usual, if in his or her judgment it is in the best interest of the Authority and employee.

### **9.3 Telework**

In order to support regional telework goals, the NVTa employees are encouraged to work from home one (1) day per month with the advance approval of their supervisor. The NVTa will make its best efforts to provide effective network connections but cannot guarantee success and cannot provide NVTa-owned second computers. The ~~Executive Director~~CFO shall consider the overall effectiveness of the NVTa’s workforce in determining whether work at home will be permitted on a more frequent basis.

## SECTION 10. EMPLOYEE EXPENSES

### 10.1 Local Travel Expense Report

Employees should request reimbursement monthly. Requests for reimbursement not made within 45 days of expense may not be fulfilled. Local travel reimbursement requests must include the travel date, destination, reason for travel, method of travel, mileage for personal automobile and cost. Mileage will be reimbursed at the published IRS rate.

### 10.2 Non-Local Travel Expense Report

Non-local travel must be approved in advance by the ~~Executive Director~~CFO. Costs associated with non-routine travel outside the Washington metropolitan region should be reported on the appropriate form to include the reason for travel, location, description of costs and appropriate receipts. Receipts are required for airline, train, shuttles, hotels, restaurants, parking, tolls and miscellaneous items. Rental cars requested for non-local travel must be preapproved by the Chief Financial Officer. Reimbursement is not available for luxury cars. Airline travel shall be at the coach/business rates. Personal expenses should be designated on receipts.

Expense report should be submitted promptly after travel has been completed, but no later than a month thereafter. Approval is required by the employee supervisor and the Chief Financial Officer. Approved reports will be processed and forwarded to accounts payable.

### 10.3 Permitted Travel Expenses

Mileage to attend meetings outside of the NVTa office is permitted. Mileage is not allowed for travel between an employee's home and the NVTa office. Mileage from home to an appointment or from an appointment to home is not reimbursable unless the distance is substantially greater than the employee's normal commute.

Actual, reasonable, costs for food and lodging are allowed. The test of "reasonable" is general consistency with accepted Federal/State rates.

Travel shall be at coach rates. Any exception must be approved by the ~~Executive Director~~CFO in advance. Whenever it is available and advantageous to do so, employees should request the appropriate government rate for overnight lodging expenses.

The cost of meals should be consistent with Federal per diem rates. Customary gratuities are reimbursable at customary rates.

Personal care items and personal use items are not reimbursable.

Entertainment such as in-flight movies or hotel movies ~~is~~are not reimbursable.

Alcohol is not reimbursable.

Snacks and comfort items (unless a substitute for a meal or other expense) are not reimbursable.

The ~~Executive Director~~CFO may reduce the submitted reimbursement request to the Federal per diem rate.

#### **10.4 Meal Expenses**

Meals provided as part of a conference or travel package should be utilized.

Local meal costs shall not be reimbursed unless:

- Expenses are for a business meeting with one or more person(s) other than the NVTA staff, or
- Meal is a part of travel to or from a meeting outside of normal business hours, or
- Meal is part of a NVTA staff or Authority meeting that results in an inability to have normal meal and for which a meal has not been provided excluding routine scheduled meetings.

#### **10.5 Mileage Reimbursement Rate**

Mileage reimbursements shall be consistent with the current IRS rate.

#### **10.6 Expenses for Guests of the Authority**

Approval of the Executive Director or the Chief Financial Officer is required before a commitment is made to reimburse expenses of an NVTA guest. (Employees shall exercise good judgment in seeking reimbursement for expenses incurred on behalf of guests.) In no event shall the NVTA offer to pay/reimburse NVTA guest expenses when to do so may create a conflict of interest or the appearance of a conflict of interest.

#### **10.7 Travel Advance**

Travel Advances will be limited to the use of the office purchasing card for conference and ticket purchases. Employees who submit prompt expense reimbursement requests will typically have their reimbursement prior to their credit card invoice cycles.

Upon request by an employee, the ~~Executive Director~~CFO may authorize a travel advance on an infrequent basis for unique situations that are received in sufficient time to permit normal processing through accounts payable.

Upon completion of the trip, any excess funds must be returned, together with a completed non-local travel expense form and receipts within 14 Days.

## **SECTION 11. PERFORMANCE AND DISCIPLINARY ACTIONS**

### **11.1 Disciplinary Actions**

Clear and prompt communication is critical for effective resolution of any employee performance or disciplinary issues. Supervisors are encouraged to discuss any performance or disciplinary concerns immediately with staff. This communication may take the form of a one on one conversation, a performance review being presented earlier than the routine cycle or other written notice of performance.

The communication will not only inform the staff member of the actions requiring modification but will also solicit ideas on how the staff member can improve the situation. Part of the discussion must be how the NVTa can reasonably support needed change on the part of the employee.

Supervisors will advise the CFO of any employee performance concerns. The CFO will be kept informed by the supervisor of performance progress and will monitor the performance coaching and outcomes reporting as necessary to the Executive Director.

### **11.2 Performance/Disciplinary Actions**

It is the intention that all instances of the need for performance modifications be professionally communicated to the staff member by their supervisor with prompt and professional changes in behavior/conduct by the employee the expected result with a minimal amount of formality.

In situations where the desired change in behavior/conduct does not materialize, formal written notice will be provided to the employee. Such notice(s) will include a timeline for the correction to occur. Employee input will be requested as to any contributory factors preventing the required change in behavior/conduct.

If adequate progress towards resolution of the behavior/conduct is not observed within the timeline previously documented, management may issue a final notice of the need for a performance change. If after this notice the performance has not reached the level required, the Executive Director will consider whether employment separation is in the best interests of the Authority.

### **11.3 Grievances**

Employees may bring a complaint or dispute in writing to the ~~Executive Director~~CFO regarding: disciplinary actions; the application of personnel policies, procedures, rules and regulations; acts of reprisal; or discrimination. Certain complaints or disputes are not eligible to be submitted under the grievance process, including, but not limited to: annual evaluations, work activities accepted by the employee as a condition of employment or work which is a reasonable part of the job description; methods, means and personnel by which such work activities are carried on; contents of established NVTa policies,

procedures, rules and regulations; failure to promote; and provisions applied in an emergency. Grievances must be presented to the ~~Executive Director~~CFO in writing within ten (10) days of the event. The ~~Executive Director~~CFO shall respond to such a written grievance within twenty (20) days unless the grievance is a termination or other involuntary separation of employment in which case the ~~Executive Director~~CFO will respond as soon as practical or within twenty (20) days.

## **SECTION 12. EMPLOYEE SAFETY AND SECURITY**

### **12.1 General**

The Occupational Safety and Health Act of 1970 requires employers to provide a safe work place: a place free from hazards that might cause injury, disability or even death.

Since the NVTa leases office space from the NVRC, employees must be aware of and abide by the NVRC's approach to safety and security while in the office.

### **12.2 The NVTa Safety Policy**

It is the policy of the NVTa that every employee is entitled to work under the safest conditions possible. To this end, every reasonable effort will be made to promote accident prevention for protection and health preservation. Preventable accidents which injure people, damage equipment or property or destroy materials cause personal suffering, inconvenience and expense.

The NVTa will endeavor to maintain a safe and healthful work place. The Authority will take reasonable steps to provide safe working equipment, necessary personal protection and, in the case of injury, access to the first aid and medical services provided to citizens in the jurisdiction in which the NVTa office is located.

Safety and loss control is a responsibility that must be shared by all. NVTa employees should all act safely and encourage safety at all times, so that healthy attitudes towards accident prevention, loss control and improved safety on the job can be achieved.

### **12.3 Safety Rules**

- 1) Immediately report unsafe equipment or conditions to the NVTa Administrative Assistant/Clerk.
- 2) Place boxes/paper/objects out of the way and off the floor to avoid tripping.
- 3) Use extreme care in driving personal automobiles on NVTa business. Always wear seat belts and obey all traffic laws.
- 4) Keep offices and common areas clear of clutter and debris that may pose a fire hazard.
- 5) Always close file drawers.
- 6) Report all incidents to the NVTa Administrative Assistant/Clerk.



## 12.4 If an Injury Occurs at Work

- 1) First Aid Kit is located in the small hallway leading into the main kitchen, middle/small set of cabinets on the left. A second first aid kit is located in the bottom cabinet in the small kitchen.

- 2) Emergency Numbers: (DIAL 1 FIRST)

AMBULANCE	911
FIRE	911
POLICE	911

- 3) Closest hospital is located at:

Inova Fairfax Hospital  
703-776-4001  
3300 Gallows Road  
Falls Church, VA 22042

- 4) To be covered by the NVTAs Workers Compensation Insurance through the Virginia Municipal League, NVTAs employees must:

- A. Report the accident immediately to your supervisor.
- B. A physician chosen from the PANEL OF PHYSICIANS must be used if medical treatment is needed. The NVTAs Administrative Assistant/Clerk maintains a list.
- C. If a Panel Physician is unavailable at the time of an emergency, an emergency facility may treat you one time only. The physician chosen by you from the Panel of Physicians must conduct any and all follow-up which is necessary due to your injury.
- D. Your Panel Physician can refer you to a specialist if needed. You may not choose a specialist yourself.
- E. If you do not receive treatment from a Panel Physician, your Workers' Compensation benefits may be terminated and your medical bills will not be paid. If you sustain a compensable work injury, your Workers' Compensation benefits may be terminated and your medical bills will not be paid. If you sustain a compensable work injury, your Workers' Compensation Administrator will only be responsible for bills from the following:
  1. Panel Physicians
  2. Authorized treating specialist
  3. In a true emergency an emergency facility

## 12.5 Security

- 1) Security depends on the cooperation and interest of each individual.
- 2) Never leave purses, wallets or other valuable items on or under desks. Keep them out of sight.
- 3) Cash, stamps, parking stickers, etc., should be kept out of sight.
- 4) Immediately report all suspicious persons, peddlers, or solicitors, to management personnel or by calling the Police Department (non-emergency is 703-558-2222).
- 5) If upon entering the office suite an employee is surprised by an unauthorized person, the employee should quietly leave; then call the police.
- 6) If someone an employee does not know is attempting to follow the employee into the building during security hours (7pm – 7am), the employee should ask the person to use his or her own fob on the reader or instruct the person to use the Datawatch phone for assistance.
- 7) Report missing Datawatch fobs immediately to the NVTa Administrative Assistant/Clerk. The Administrative Assistant/Clerk will immediately notify the NVRC, Datawatch and building management so these fobs cannot be used by unauthorized persons trying to gain entry.
- ~~8) The last employee leaving the office each evening must ensure that the front door is securely locked.~~

## SECTION 13. EMPLOYEE EXIT PROCESS

### 13.1 General

In order to ensure a smooth transition for the employee and the NVTA, the following steps will be taken. Except for the return of NVTA property, the ~~Executive Director~~CFO may modify these steps on a case by case basis to protect the interests of the Authority.

### 13.2 All Employees

On an employee's last day, all NVTA property must be returned and accounted for. This includes laptops with accessories, cell phones with accessories, building, suite, and office keys/access devices and any other data medium or devices as well as any business records or files in any medium. Final pay will not be released until all NVTA property is returned.

Departing employees will be informed of any outstanding pay and vacation due to them. Departing employees will be invited to participate in a voluntary exit interview. The purpose of the interview is for the employee to provide feedback on topics that may help the NVTA to enhance its performance as an employer.

~~Employees are advised that since the NVTA has less than twenty (20) employees, COBRA benefits for health care are not provided.~~

NVTA offers COBRA benefits through our health care provider, The Local Choice. All COBRA benefits are paid as directed by The Local Choice.

**Approved by the Finance Committee: December 5, 2014**

**1st Revision – Recommended by Governance and Personnel Committee: May 11, 2017**

**Approved by Northern Virginia Transportation Authority: December 11, 2014**

**1st Revision - Approved by Authority: June XXXXX**

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

### MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Monica Backmon, Executive Director

**DATE:** June 2, 2017

**SUBJECT:** Approval of I-66 Outside the Beltway Concessionaire Payment Call For Projects

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- I. **Purpose.** Seek Northern Virginia Transportation Authority (NVTa) approval of a Call for Projects to determine recommendations for the Commonwealth Transportation Board (CTB) regarding the use of the projected \$500 million I-66 Outside the Beltway (I-66 OTB) Concessionaire Payment.
- II. **Suggested Motion.** *I move Authority approval of a Call for Projects to initiate project selection which will lead to Authority recommendations for the CTB for project funding through the I-66 Outside the Beltway Concessionaire Payment.*
- III. **Background.**
  - a. The Commonwealth of Virginia's Transform I-66 OTB project is a multimodal public private partnership between the Virginia Department of Transportation (VDOT), the Department of Rail and Public Transportation (DRPT) and private partner, Express Mobility Partners, which when finalized, will bring a \$2.3 billion investment in the I-66 corridor, to move more people while providing reliable trips and new multimodal travel options.
  - b. The Commonwealth anticipates finalizing the I-66 OTB concession agreement with Express Mobility Partners in July 2017.
  - c. The final agreement is anticipated to include up to a \$500 million concessionaire payment for multimodal projects within the I-66 OTB corridor.
  - d. The NVTa has been requested, by Secretary Layne, to coordinate with DRPT and VDOT to solicit eligible projects and make project recommendations to the CTB.
- IV. **I-66 OTB Corridor Project Eligibility Requirements.**
  - a. Projects recommended for consideration should be included in a document that has undergone a public process as demonstrated by inclusion in any of the following (but not limited to):
    - i. TransAction 2040
    - ii. VTrans 2040
    - iii. I-66 Corridor of Statewide Significance
    - iv. Comprehensive Plan
    - v. Capital Improvement Plan

- vi. Constrained Long-Range Transportation Plan
- vii. Transportation Improvement Program
- viii. Region Transportation Priorities Plan; or have
- ix. Letter of support via formal approval by the governing body
- b. Projects must be in the I-66 OTB Corridor or demonstrate a clear and compelling nexus to the I-66 OTB Corridor.
- c. Projects must demonstrate the ability to start utilizing the requested funding by toll day-1.
- d. Projects must demonstrate commitment of any required operation and/or maintenance funds.
- e. Projects must show benefit to users within the corridor.
- f. Studies are ineligible for funding consideration.

**V. Timing.** The following timeline has been established to advance the project call, selection and recommendation:

- a. June 8, 2017 NVTA issues Call for Projects for the Concessionaire Payment
- b. June 28, 2017 Responses to Call for Projects Due (by midnight)
- c. July 13, 2017 NVTA Selects Projects for Recommendation to the CTB
- d. Aug./Sept. 2017 CTB Approval of Recommended Projects

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Mayor Parrish, Chairman, Finance Committee

**DATE:** June 2, 2017

**SUBJECT:** Finance Committee Report of the May 18, 2017 Meeting

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1. **Purpose:** To provide a report of the monthly activities of the Northern Virginia Transportation Authority's (NVTa) Finance Committee.
2. **Background:** The Finance Committee last met on May 11, 2017. The next meeting is scheduled for June 15, 2017 at 1:00PM. The following summarizes the May 11th meeting:
3. **Action Items:**
  - a. **Policy 9 – Debt Policy (Revisions)**
    - i. The Committee received a briefing on proposed revisions to the NVTa Debt Policy.
    - ii. Proposed policy changes relate to capping the Working Capital Reserve (WCR) at \$120 million.
    - iii. The proposed policy change will result in an estimated \$18 million increase in PayGo funds between FY2018 and FY2024.
    - iv. In preparation for the proposed revision NVTa staff consulted, informed and worked with:
      1. All three rating agencies (Fitch, Moody's and Standard and Poor's)
      2. The Authority's Financial Advisor (PFM)
      3. Bond Counsel and Council of Counsels
    - v. The Committee unanimously agreed to recommend Authority approval of the Debt Policy Revisions.
  - b. **Policy 17 – Capital Asset Accounting (Revisions)**
    - i. The Committee reviewed proposed revisions to Policy 17 – Capital Asset Accounting (revisions) to account for the FY2017 establishment of an equipment Replacement Reserve within the Operating Fund.
    - ii. The reserve is designed to provide funding for necessary replacements over time and avoid large one time operating budget spikes.
    - iii. The policy revisions require the reserve level and annual contribution to be evaluated as part of the annual operating budget process.
    - iv. The policy revisions limit the reserve use only to replacing existing outdated or non-operational equipment, furniture and fixtures. This prevents the use of the reserve to expand capital assets.

- v. Future use of the reserve to replace a shared GIS plotter with the Northern Virginia Regional Commission (NVRC) was addressed with the Finance Committee.
- vi. Minor clarifications and updates were included in the proposed changes.
- vii. The Committee unanimously agreed to recommend Authority approval of the Capital Asset Accounting Policy revisions.

**c. Policy 29 – Project Activation, Progress and Monitoring (New)**

- i. The Committee received a briefing on the proposed policy which is modelled after two previously adopted policies; Policy 24 – Standard Project Agreement Activation and Policy 25 – FY2017 Program First Drawdown Commitment.
- ii. Policy 24 and Policy 25 do not apply to projects approved in FY2018 or later.
- iii. The draft of the new policy seeks to provide guidance related to approved projects in FY2018 and later.
- iv. The Committee received a report on the level of schedule but unreimbursed expenses.
- v. The Committee requested NVTa staff review the draft reimbursement provisions.

**4. Discussion Items:**

**a. Funding the Six Year Program.** The Committee received a briefing and discussed guidance on funding the Six Year Program (SYP).

- i. The briefing included:
  1. The funding environment for the SYP.
  2. Benefits and options created through conservative revenue estimates and fiscal planning.
  3. Recognition that member jurisdictions and agencies often adjust their own Capital Improvement Plans through changing the scheduled timing of their own projects. The conservative planning for the Authority's SYP recognizes such adjustments would be more challenging when projects are awarded by a regional body to multiple jurisdictions and agencies over a continuing six year cycle.
  4. Benefits of establishing a reputation for 'reasonable expectation' that adopted future fiscal year project approvals will receive planned appropriations.
  5. A discussion of PayGo Availability and Determination.
  6. A discussion of PayGo utilization, noting:
    - a. Timing of approval of the SYP in relation to actual revenue receipts.
    - b. Use of a declining amount of estimated revenue in the final three years of the SYP.
    - c. Options created in addressing revenue changes, funding projects and/or utilizing debt that are afforded by not fully programming 100% of the estimated revenue in the last three years of the SYP.
  7. A discussion of Debt Capacity Determination.

8. A discussion of Debt Capacity Utilization, noting:
  - a. Debt financing structures.
  - b. When to use debt financing.
  - c. Impact of debt financing on future PayGo availability.
  - d. Debt financing relative to the Authority's current level of appropriated yet unexpended project funding approvals.
- b. **Investment Portfolio Report.** The Committee received its first report of investment performance noting:
  - i. NVTa has implemented the Authority's investment program designed to comply with State Law, the NVTa Investment Policy, accounting standards and best practices for public funds/fixed income investments.
  - ii. Reporting of investment activities focuses on accountability to the Finance Committee, clarity and transparency.
  - iii. As of April 30, 2017, \$438.4 million was moved from low interest earning positions to higher earning instruments.
  - iv. The Authority's portfolio is achieving a 1.15% rate of return compared to the investment policy benchmarks of:
    1. Fed Funds Rate: 0.90%
    2. Treasury 90 Day T-bill: 0.88%
    3. Virginia Local Government Investment Pool: 0.89%
    4. Virginia State Non-Arbitrage Program: 1.09%
  - v. The initial interest earnings estimate for FY2017 was \$1.9 million. With the implementation of the investment program, FY2017 interest earnings have the potential to exceed \$5 million.
- c. **Monthly Revenue Report.** The Committee received a report on Authority revenues for FY2017 and 30% transfers to member jurisdictions. It was noted there are no recommendations for changes to the revenue estimates at this time.
- d. **Monthly Operating Budget Report.** The Committee received a report on the Authority FY2017 Operating Budget. It was noted there are no recommendations for changes to the Operating Budget at this time.
- e. **Credit Rating Affirmation.** The Committee received a report on the recent affirmation by Fitch Ratings of the Authority's AA+, Outlook Stable credit rating.



## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

### MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Mary Hynes, Chair, Governance and Personnel Committee

**DATE:** June 2, 2017

**SUBJECT:** Governance and Personnel Committee Report of the May 11, 2017 Meeting

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1. **Purpose:** To provide a report of the monthly activities of the Northern Virginia Transportation Authority's (NVTa) Governance and Personnel Committee (GPC).
2. **Background:** The GPC last met on May 11, 2017. The next meeting is planned for September to consider potential items for the 2018 legislative session. The following summarizes the May 11th meeting:
3. **Action Items:**
  - a. **Policy 28 – Responses to Information Requests from Candidates for Political Office.**
    - i. The Committee received a briefing on the proposed policy which is intended to provide guidance to NVTa staff in responding to questions from candidates for political office.
    - ii. The presented draft was updated to respond to comments by members of the Authority at the January 2017 meeting:
      1. A definition of candidate for political office.
      2. The use of the NVTa website to distribute information provided in response to information requests.
    - iii. The Committee unanimously agreed to recommend Authority approval of the proposed Policy 28.
  - b. **Policy 29 – Project Activation and Progress**
    - i. The Committee received a briefing on the proposed policy which is intended to outline the rules and processes related to project activation, progress and monitoring.
    - ii. The presented draft is based on two previously adopted policies, those policies do not apply to projects approved in FY2018 or later.
    - iii. The Committee unanimously agreed to recommend Authority approval of the proposed Policy 29.

Ed. Note: Subsequent to the GPC meeting the Finance Committee also reviewed the proposed policy and requested NVTa staff review the reimbursement provisions.
  - c. **Draft Revision to Employee Handbook**
    - i. The Committee received a briefing on the proposed revisions to the NVTa Employee Handbook.

- ii. This is the first proposed revision to the Handbook since it was approved by the Authority on December 11, 2014.
- iii. The purpose of the Handbook is to describe how the NVTa is managed and provide a reference for staff on how to conduct business in support of the operation of the Authority.
- iv. Draft changes include (listed by volume)
  - 1. Employee Benefits (these were the most extensive changes as employee benefits were not set until after 2014)
  - 2. Employee Performance Reviews
  - 3. Employee Leave and Holidays
  - 4. Establishment of an Administrative Hierarchy
  - 5. Editorial Corrections, Updates and Clarifications
- v. The Committee unanimously agreed to recommend Authority approval of the revisions to the NVTa Employee Handbook.

#### **4. Discussion Items:**

##### **a. Introduction of Dr Robert A. Schneider, PhD.**

- i. Ms. Backmon introduced Dr. Schneider as the new Executive Director of the Potomac Rappahannock Transportation Commission (PRTC).
- ii. Dr. Schneider attended the GPC and Authority meetings that evening as part of his efforts to become familiar with the NVTa and transportation agencies and issues in Northern Virginia.

##### **b. Potential Legislative Topics**

- i. Ms. Backmon reviewed the requirements of HB599, critiquing the incorporation of those requirements into the TransAction Update.
- ii. An in-depth discussion of HB599 and other project evaluation processes and criteria ensued.
- iii. The Committee agreed to meet in September 2017 in preparation for the 2018 General Assembly Session.

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

### MEMORANDUM

**FOR:** Members, Northern Virginia Transportation Authority

**FROM:** Chairman Martin E. Nohe, Planning and Programming Committee

**DATE:** June 2, 2017

**SUBJECT:** Report from the Planning and Programming Committee

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**1. Purpose.** To inform the Northern Virginia Transportation Authority (NVTA) on recent activities of the NVTA's Planning and Programming Committee (PPC).

**2. Background.** The PPC met on May 31, 2017.

The Committee received a briefing on the TransAction findings and NVTA staff recommendations. The PPC also discussed draft versions of the TransAction Plan and associated Project List.

**3. TransAction Briefing.** The Committee received a briefing from NVTA staff on the draft TransAction findings and NVTA staff recommendations.

The Committee sought clarifications on several topics, such as the planning/programming context for TransAction, analytical methodology, detailed results, and NVTA staff recommendations.

The Committee provided guidance on the draft TransAction Plan and directed NVTA staff to work with the TransAction Subcommittee to address this guidance prior to seeking Authority approval to release the TransAction Plan and associated Project List.

**4. Next steps.** The PPC will continue to be engaged in the process to update TransAction, and the development of NVTA's FY2018-23 Six Year Program.

The date for the next meeting of the PPC is Friday, September 8, 2017.

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

MEMORANDUM

**FOR:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Council Member Colbert, Vice Chairman, Planning Coordination Advisory  
Committee

**DATE:** June 2, 2017

**SUBJECT:** Report from the Planning Coordination Advisory Committee

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1. **Purpose.** To inform the Northern Virginia Transportation Authority (NVTA) on recent activities of the NVTA's Planning Coordination Advisory Committee (PCAC).
2. **Background.** The PCAC met on May 24, 2017. The meeting was well attended, with half the PCAC members present.
3. **TransAction Update Preview.** The Committee received a briefing from NVTA staff on the TransAction Plan Update findings and NVTA staff recommendations.

The Committee sought clarifications on several topics, such as the planning/programming context for TransAction, analytical methodology, detailed results, and NVTA staff recommendations. The Committee provided feedback on the findings and offered suggestions to enhance the NVTA staff recommendations.

4. **Next steps.** The PCAC will continue to be engaged in the process to update TransAction, and the development of NVTA's FY2018-23 Six Year Program.

The date for the next meeting of the PCAC is Wednesday, June 28, 2017.

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

MEMORANDUM

**FOR:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Randy Boice, PE, Chairman, Technical Advisory Committee

**DATE:** June 2, 2017

**SUBJECT:** Report from the Technical Advisory Committee

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**1. Purpose.** To inform the Northern Virginia Transportation Authority (NVTA) of the recent activities of the Authority's Technical Advisory Committee (TAC).

**2. Background.** The TAC met on May 17, 2017. The Committee received a brief presentation on the Draft TransAction Plan Update analysis. The briefing detailed the Draft TransAction Plan Update findings as noted below:

- 2040 baseline,
- Draft Plan projects and costs,
- Draft Plan results and comparison with 2040 No-Build by corridors and corridor segments,
- Draft Plan benefit/cost analysis by corridors and corridor segments,
- Draft Plan performance compared to alternate futures, and,
- the NVTA staff recommendations.

The Committee discussed these in detail and suggested revisions to recommendations related to proactive policy guidance on alternate futures as well as monitoring trends on alternate futures.

**3. Next steps.** The Committee will continue to provide comments and recommendations on the TransAction update. The next meeting of TAC is scheduled for June 21, 2017, 7:00 pm at the NVTA offices.

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

### MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Michael Longhi, Chief Financial Officer

**DATE:** June 2, 2017

**SUBJECT:** Monthly Revenue Report

---

1. **Purpose:** To report to the Northern Virginia Transportation Authority (NVTa) monthly revenue receipts and 30% funds distributed to member localities.
2. **Background:** The attached reports reflect funding received and distributed through April 30, 2017.
3. **Comments:**
  - a. **FY2017 Revenues (Attachment A)**
    - i. The Authority has received approximately \$217 million through the April 2017 transfers from the Commonwealth.
    - ii. Actual to estimate comparison for revenues through April show an 8.4% positive variance in Grantor's Tax, a 0.09% positive variance in Sales Tax and a .56% positive variance in Transient Occupancy Tax compared to the adopted revenue estimates.
    - iii. Overall revenue receipts are 1.27% above estimates. No changes to the FY2017 revenue estimates are recommended at this time.
  - b. **FY2017 Distribution to localities (Attachment B)**
    - i. All jurisdictions have completed the HB 2313 required annual certification process to receive FY2017 30% funds.
    - ii. Of the \$217 million actually received by the Authority through April for FY2017, approximately \$65 million represents 30% local funds all of which have been distributed.
  - c. **FY2014 to FY2017 Year over Year Revenue Comparison (Attachment C)**
    - i. This chart reflects a month-to-month comparison of revenue by tax type and a year-to-year comparison of total revenues received through April 2017.

**Attachments:**

- A. Revenues Received By Tax Type, Compared to NVTa Estimates, Through April 2017
- B. FY2017 30% Distribution by Jurisdiction, through April 2017
- C. Month to Month Comparison By Tax Type and YTD Receipts for April 2014 to 2017

# XVII.A

**NORTHERN VIRGINIA TRANSPORTATION AUTHORITY**  
**REVENUES RECEIVED, BY TAX TYPE AND JURISDICTION, COMPARED TO NVTB BUDGET**  
Based on: Revenue Data Through April 2017  
FYE June 30, 2017

Grantors Tax			Received		NVTB		Projected Variance
Transaction Months	9		To Date	Annualized	FY 2017 Budget	Annualized - Actual To Budget	
City of Alexandria		\$	2,359,042	\$ 3,145,390	\$ 3,322,266	\$ (176,876)	
Arlington County		\$	3,867,215	\$ 5,156,287	\$ 4,662,589	\$ 493,698	
City of Fairfax		\$	235,004	\$ 313,339	\$ 295,220	\$ 18,119	
Fairfax County		\$	15,759,745	\$ 21,012,993	\$ 20,876,353	\$ 136,640	
City of Falls Church		\$	171,848	\$ 229,130	\$ 298,423	\$ (69,293)	
Loudoun County		\$	7,859,646	\$ 10,479,529	\$ 8,545,066	\$ 1,934,463	
City of Manassas		\$	307,251	\$ 409,668	\$ 339,631	\$ 70,037	
City of Manassas Park		\$	112,330	\$ 149,773	\$ 158,354	\$ (8,581)	
Prince William County		\$	4,758,907	\$ 6,345,209	\$ 5,073,000	\$ 1,272,209	
Total Grantors Tax Revenue		\$	35,430,988	\$ 47,241,317	\$ 43,570,902	\$ 3,670,415	8.42%
Regional Sales Tax*			Received		FY 2017		Projected Variance
Transaction Months	8		To Date	Annualized	Budget	Annualized - Actual To Budget	
City of Alexandria		\$	10,252,191	\$ 15,378,287	\$ 14,576,063	\$ 802,224	
Arlington County		\$	16,157,753	\$ 24,236,629	\$ 24,810,622	\$ (573,993)	
City of Fairfax		\$	4,740,938	\$ 7,111,407	\$ 6,833,280	\$ 278,127	
Fairfax County		\$	70,876,371	\$ 106,314,556	\$ 112,442,662	\$ (6,128,106)	
City of Falls Church		\$	1,611,533	\$ 2,417,300	\$ 2,304,737	\$ 112,563	
Loudoun County		\$	32,682,029	\$ 49,023,044	\$ 44,265,375	\$ 4,757,669	
City of Manassas		\$	3,419,937	\$ 5,129,906	\$ 4,904,149	\$ 225,757	
City of Manassas Park		\$	923,643	\$ 1,385,465	\$ 1,292,525	\$ 92,940	
Prince William County		\$	24,202,844	\$ 36,304,266	\$ 35,639,660	\$ 664,606	
Total Sales Tax Revenue*		\$	164,867,240	\$ 247,300,860	\$ 247,069,073	\$ 231,787	0.09%
Transient Occupancy Tax (TOT)			Received		FY 2017		Projected Variance
Transaction Months			To Date	Annualized	Budget	Annualized - Actual To Budget	
City of Alexandria	Months	8.00	\$ 2,391,445	\$ 3,587,168	\$ 3,458,526	\$ 128,642	
Arlington County	Months	8.00	\$ 5,827,404	\$ 8,741,106	\$ 9,711,491	\$ (970,385)	
City of Fairfax	Quarters	3.00	\$ 267,627	\$ 356,836	\$ 328,250	\$ 28,586	
Fairfax County	Quarters	2.00	\$ 5,771,311	\$ 11,542,622	\$ 11,042,184	\$ 500,438	
City of Falls Church	Months	8.00	\$ 114,039	\$ 171,058	\$ 174,234	\$ (3,176)	
Loudoun County	Quarters	2.33	\$ 1,718,194	\$ 2,949,689	\$ 2,562,016	\$ 387,673	
City of Manassas	Months	8.00	\$ 44,131	\$ 66,197	\$ 58,868	\$ 7,329	
City of Manassas Park	n/a		\$ -		\$ -	\$ -	
Prince William County	Quarters	2.40	\$ 971,974	\$ 1,619,957	\$ 1,537,000	\$ 82,957	
Total TOT Revenue			17,106,124	29,034,631	\$ 28,872,569	162,062	0.56%
Total Revenue Received			\$ 217,404,352	\$ 323,576,808	\$ 319,512,544	\$ 4,064,264	1.27%

\*The Regional Sales Tax is reported net of fees when applicable.

# XVII.B

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY FY 2017 30% DISTRIBUTION BY JURISDICTION

Based on: Receipts through April 2017

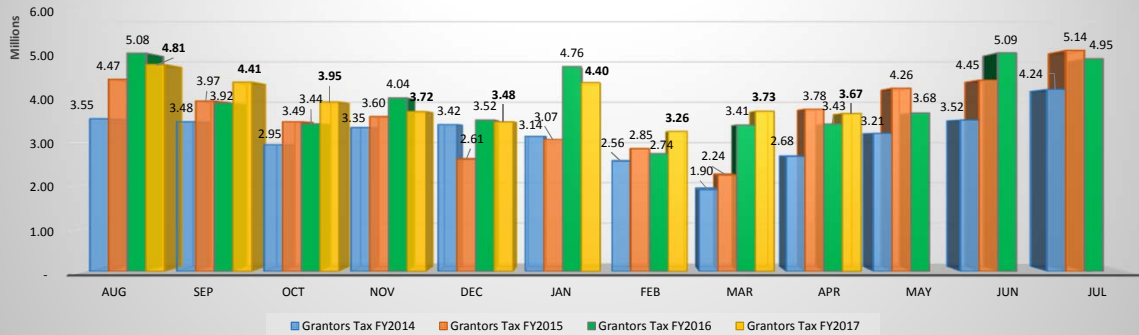
Jurisdiction	Grantor's Tax	*Regional Sales Tax (1)	Transient Occupancy Tax (2)	NVTA Fund Interest	Cumulative Total	30% Funds	Thru 3/31/2017 Accrued Interest (3)	Thru 3/31/2017 Prior Distributions	Current Month Distribution	Total Funds Transferred
							(+)			
City of Alexandria	\$ 2,359,042.35	\$ 10,252,191.07	\$ 2,391,445.35	\$ 8,003.01	\$ 15,010,681.78	\$ 4,503,204.53	754.65	\$ 4,021,471.61	\$ 482,487.57	\$ 4,503,959.18
Arlington County	\$ 3,867,215.25	\$ 16,157,752.94	\$ 5,827,403.96	\$ 14,385.09	\$ 25,866,757.24	\$ 7,760,027.17	1,293.68	\$ 6,964,648.15	\$ 796,672.70	\$ 7,761,320.85
City of Fairfax	\$ 235,004.40	\$ 4,740,937.91	\$ 267,626.64	\$ 2,892.56	\$ 5,246,461.51	\$ 1,573,938.45	215.61	\$ 1,405,205.82	\$ 168,948.24	\$ 1,574,154.06
Fairfax County	\$ 15,759,744.52	\$ 70,876,370.85	\$ 5,771,310.75	\$ 51,374.54	\$ 92,458,800.66	\$ 27,737,640.20	4,527.89	\$ 24,967,066.91	\$ 2,775,101.18	\$ 27,742,168.09
City of Falls Church	\$ 171,847.65	\$ 1,611,533.32	\$ 114,038.54	\$ 1,008.47	\$ 1,898,427.98	\$ 569,528.39	107.81	\$ 504,184.15	\$ 65,452.05	\$ 569,636.20
Loudoun County	\$ 7,859,646.45	\$ 32,682,029.46	\$ 1,718,193.64	\$ 23,177.64	\$ 42,283,047.19	\$ 12,684,914.16	2,048.33	\$ 11,358,492.15	\$ 1,328,470.34	\$ 12,686,962.49
City of Manassas	\$ 307,250.70	\$ 3,419,937.40	\$ 44,131.26	\$ 2,112.69	\$ 3,773,432.05	\$ 1,132,029.62	215.61	\$ 997,740.18	\$ 134,505.05	\$ 1,132,245.23
City of Manassas Park	\$ 112,329.75	\$ 923,643.48	\$ -	\$ 566.10	\$ 1,036,539.33	\$ 310,961.80	107.82	\$ 277,319.45	\$ 33,750.17	\$ 311,069.62
Prince William County	\$ 4,758,906.75	\$ 24,202,843.89	\$ 971,973.93	\$ 16,661.03	\$ 29,950,385.60	\$ 8,985,115.68	1,509.30	\$ 8,062,640.70	\$ 923,984.28	\$ 8,986,624.98
Total Revenue	\$ 35,430,987.82	\$ 164,867,240.32	\$ 17,106,124.07	\$ 120,181.13	\$ 217,524,533.34	\$ 65,257,360.00	\$ 10,780.70	\$ 58,558,769.12	\$ 6,709,371.58	\$ 65,268,140.70

- 1 Net of Dept. of Taxation Fees
- 2 County TOT includes any town collections
- 3 Interest earned through 3/31/2017

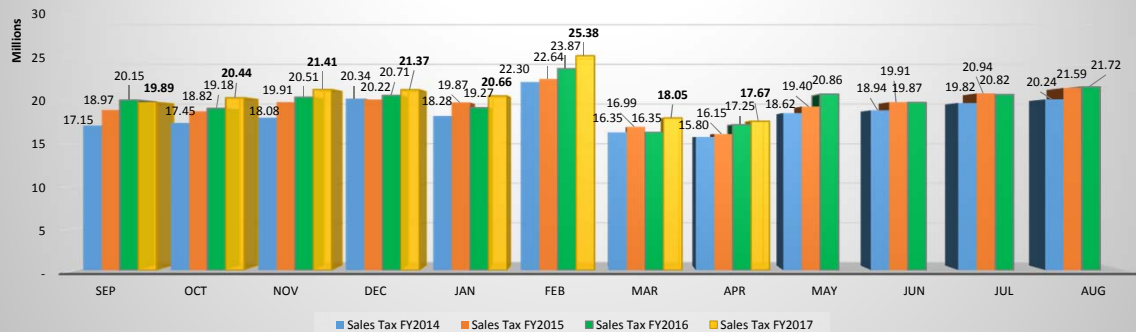


April 2017

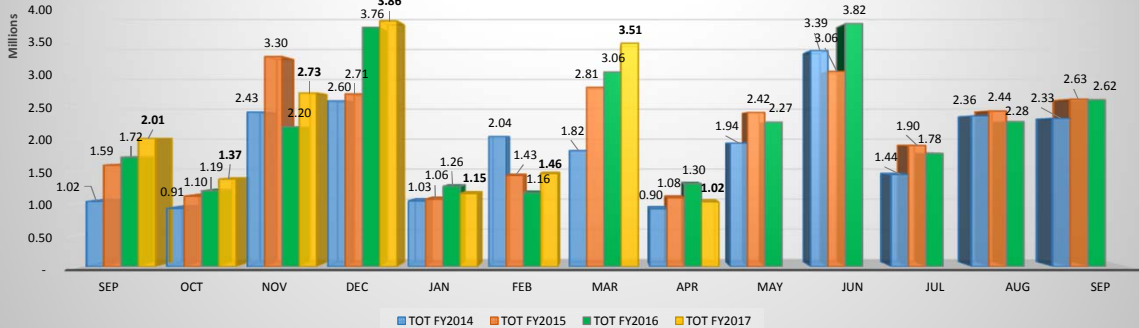
## Grantors Tax (month received)



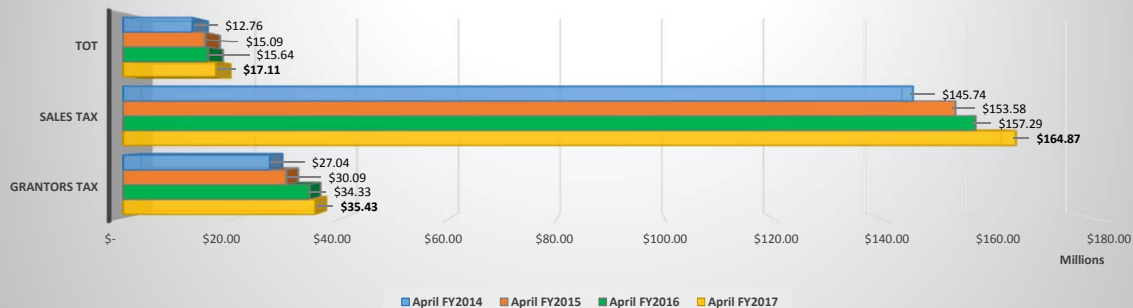
## Sales Tax (month received)



## Transient Occupancy Tax (month received)



## YTD Receipt Comparison April FY2014 to FY2017



## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

### MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Michael Longhi, Chief Financial Officer

**DATE:** June 2, 2017

**SUBJECT:** NVTa Operating Budget

---

1. **Purpose:** To update the Northern Virginia Transportation Authority (NVTa) on the Operating Budget for FY2017.
2. **Background:** The Authority operating budget is funded through the participating jurisdictions. All jurisdictions have contributed their respective share of the FY2017 operating budget.
3. **Comments:** Through April 30, 2017, the FY2017 Operating Budget has produced the following results:
  - a. Operating revenue is at 100% of estimate for the entire year.
  - b. In February 2017, the Authority approved a FY2017 transfer of \$25,000 from the NVTa Operating Reserve to Expenditure Account 43000-320 – HW & SW Peripheral Purchase for the acquisition and implementation of Geographic Information System (GIS) mapping and limited modelling and analysis functions. An offsetting transfer will occur in FY2018.
  - c. April 2017 represents 83% of the fiscal year. Through April 2017, the Authority has utilized 75% of its adjusted expenditure budget.
  - d. The attached statement shows the operating budget income and expenditure activity through April 2017 for FY2017.

**Attachment:** FY2017 Operating Budget through April 30, 2017

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NORTHERN VIRGINIA TRANSPORTATION AUTHORITY  
Income Statement  
For the Accounting Period: 4 / 17

XVIII. ATTACHMENT

Page: 1 of 2  
Report ID: LB170A

1000 General Fund

		----- Current Year -----				
Account Object	Description	Current Month	Current YTD	Budget	Variance	
Revenue						
330100	Contribution Member Jurisdiction		1,654,617.00	1,654,659.00	-42.00	100
						100
	Total Revenue	0.00	1,654,617.00	1,654,659.00	-42.00	100
Expenses						
410000	Personnel Expenses					
110	Salaries-Regular Pay	73,705.02	761,090.21	943,126.00	182,035.79	81
130	Health & Dental Benefits	8,643.84	85,785.66	115,200.00	29,414.34	74
131	Payroll Taxes	5,476.06	51,472.28	72,258.00	20,785.72	71
132	Retirement VRS	7,694.32	74,359.71	93,561.00	19,201.29	79
133	Life Insurance	1,046.00	9,932.10	12,355.00	2,422.90	80
134	Flex Spending/Dependent Care	31.50	349.00	604.00	255.00	58
135	Workers Comp		1,039.00	1,037.00	-2.00	100
137	Disability Insurance	701.75	13,902.45	13,360.00	-542.45	104
	Total Account	97,298.49	997,930.41	1,251,501.00	253,570.59	80
420000	Professional Services					
210	Audit & Accounting Services		20,250.00	27,500.00	7,250.00	74
220	Bank Service		30.00	750.00	720.00	4
230	Insurance		4,705.00	4,200.00	-505.00	112
240	Payroll Services	91.30	1,226.22	1,300.00	73.78	94
260	Public Outreach		20,577.09	21,500.00	922.91	96
261	Legal/Bond Council Services			37,500.00	37,500.00	
262	Financial Advisory Services		36,033.30	72,000.00	35,966.70	50
263	Bond Trustee Fees		2,687.50	2,700.00	12.50	100
264	Legislative Services	7,250.00	33,566.00	60,000.00	26,434.00	56
265	Investment Custody Svc	3,222.22	3,222.22	12,500.00	9,277.78	26
	Total Account	10,563.52	122,297.33	239,950.00	117,652.67	51
430000	Technology/Communication					
310	Acctg & Financial Report Systems	4,969.00	4,969.00	10,000.00	5,031.00	50
320	HW SW & Peripheral Purchase	1,097.52	15,598.42	30,030.00	14,431.58	52
330	IT Support Svc Incl Hosting	1,354.10	12,358.97	14,150.00	1,791.03	87
340	Phone Service	100.00	4,605.50	7,300.00	2,694.50	63
350	Web Develop & Hosting	470.40	2,417.90	7,600.00	5,182.10	32
	Total Account	7,991.02	39,949.79	69,080.00	29,130.21	58
440000	Administrative Expenses					
410	Advertisement			1,500.00	1,500.00	
411	Dues & Subscriptions	45.00	1,480.00	3,710.00	2,230.00	40
412	Duplication & Printing	2,639.23	8,262.80	14,592.00	6,329.20	57
413	Furniture & Fixture		5,613.36	6,000.00	386.64	94
414	Meeting Expenses		2,507.89	3,600.00	1,092.11	70
415	Mileage/Transportation	209.42	4,041.23	10,200.00	6,158.77	40

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NORTHERN VIRGINIA TRANSPORTATION AUTHORITY  
Income Statement  
For the Accounting Period: 4 / 17

Page: 2 of 2  
Report ID: LB170A

1000 General Fund

		----- Current Year -----				
Account Object	Description	Current	Current YTD	Budget	Variance	%
		Month				
416	Misc Exp		3,252.85		-3,252.85	
417	Office Lease	9,813.60	107,076.62	116,059.00	8,982.38	92
418	Office Supplies	177.07	2,363.10	6,880.00	4,516.90	34
419	Postage & Delivery		276.56	700.00	423.44	40
420	Professional Develop & Training		2,181.77	13,670.00	11,488.23	16
421	Industry Conferences		4,152.19	6,500.00	2,347.81	64
	Total Account	12,884.32	141,208.37	183,411.00	42,202.63	77
	Total Expenses	128,737.35	1,301,385.90	1,743,942.00	442,556.10	75
	Net Income from Operations	-128,737.35	353,231.10			
Other Expenses						
521000	Transfers					
820	Transfer to Operating Reserve			318,788.00	318,788.00	
825	Transf to Equip Reserve			4,500.00	4,500.00	
	Total Account			323,288.00	323,288.00	
	Total Other Expenses	0.00	0.00	323,288.00	323,288.00	
	Net Income	-128,737.35	353,231.10			

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Michael Longhi, Chief Financial Officer

**DATE:** June 2, 2017

**SUBJECT:** Initial Investment Portfolio Report

---

1. **Purpose:** To provide the Authority with summary reports of investment activities and the Authority's investment portfolio performance.
2. **Background:**
  - a. This is the first month which the Authority is receiving investment reports. These are high level summary reports and are intended to:
    - i. Follow best practices of public funds/fixed income investment reporting for clarity and transparency.
    - ii. Provide transparency and accountability of investments to the Authority.
  - b. Detailed reports were presented to the Finance Committee for accountability and compliance with reporting requirements prescribed in the NVTa Investment Policy.
  - c. As stated in the NVTa Investment Policy, the objectives of the Authority's investment activities in priority order are:
    - i. Safety.
    - ii. Liquidity.
    - iii. Yield.
  - d. The Authority's investment program was activated in January 2017.
  - e. As of April 30, 2017, approximately \$438.4 million in investment trades were transacted, settled and reconciled. This level of activity is reflective of the initial positioning of the portfolio.
3. **Discussion:** Report presentation can be modified as the Authority desires. Since these are the first monthly reports they show the transition from cash holdings in liquidity pools and bank accounts to the purchase and holding of individual securities. The reports as attached are:
  - a. **Distribution by Asset Category – Book Value.** This report is intended to show the composition and changes in the portfolio by asset category. It shows a starting point of \$500 million in the Commonwealth LGIP transitioning to \$438.4 million in purchased securities such as Treasuries, Agencies, Corporate Notes, Commercial Paper and Negotiable or 'Yankee' Certificates of Deposit. The

investments as a percent of portfolio information is useful to show investment policy compliance.

- b. Compliance Report – GASB 40.** This report lists each security, its CUSIP or Ticker, Issuer Face Amount, Book Value, Market Value, Credit Ratings, Days to Call, Maturity Date and Duration. Significant information in this report is the credit ratings of securities (when rated), Market Value and Duration to Maturity. This report is fundamental for the Authority's Annual Financial Statements and Annual Audit.
- 4. Performance to Benchmarks.** The Investment Policy sets four benchmarks with which to compare the NVTa portfolio performance. The Authority portfolio is achieving a 1.15% rate of return with the implementation of the investment program. The rates of return of the four benchmarks for the end of April are:
  - a.** Fed Funds Rate: 0.90%
  - b.** Treasury 90 Day T-Bill: 0.88%
  - c.** Virginia Local Government Investment Pool: 0.89%
  - d.** Virginia State Non-Arbitrage Program: 1.09%
- 5. Fiscal Implications:** The initial interest earnings estimate for FY 2017 was \$1.9 million. With the implementation of the investment program, FY 2017 interest earnings have the potential to exceed \$5.0 million.

**Attachments:**

- A.** Distribution by Asset Category – Book Value
- B.** Compliance – GASB 40 Report



**Northern Virginia Transportation Authority  
Distribution by Asset Category - Book Value  
Report Group: Regional Revenue Fund**

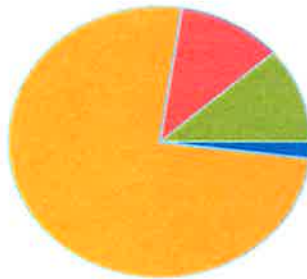
# XIX.A

Begin Date: 1/31/2017, End Date: 4/30/2017

**Asset Category Allocation**

	Book Value 1/31/2017	% of Portfolio 1/31/2017	Book Value 4/30/2017	% of Portfolio 4/30/2017
<b>Total / Average</b>	<b>662,513,069.84</b>	<b>100.00</b>	<b>699,072,663.60</b>	<b>100.00</b>

**Portfolio Holdings as of 1/31/2017**



- 1.89%-CD - Bank 60% ...
- 75.47%-LGIP 100% Max...
- 11.23%-Money Market ...
- 11.41%-Mutual Funds ...
- 0%-CD - Negotiable 2...
- 0%-Commercial Paper ...
- 0%-Corporate Notes 5...
- 0%-US Agency 100% M...

**Portfolio Holdings as of 4/30/2017**



- 1.79%-CD - Bank 60% ...
- 15.67%-LGIP 100% Max...
- 11.2%-Money Market ...
- 10.85%-Mutual Funds ...
- 12.87%-CD - Negotiab...
- 11.66%-Commercial Pa...
- 31.03%-Corporate Not...
- 4.94%-US Agency 100...

Northern Virginia Transportation Authority  
 Compliance - GASB 40 Report  
 Report Format: By Transaction  
 Group By: Security Type  
 Average By: Face Amount / Shares  
 Portfolio / Report Group: Report Group: Regional Revenue Fund  
 As of 4/30/2017

Description	CUSIP/Ticker	Issuer	Face Amount/Shares	Book Value	Market Value	Credit Rating 1	Credit Rating 2	% of Portfolio	Days To Maturity	Days To Call/Maturity	Maturity Date	Next Call Date	Duration To Maturity
<b>Certificate Of Deposit</b>													
United Bank of VA 1.045 9/9/2017	CDARS3427	United Bank of VA	12,500,000.00	12,500,000.00	12,500,000.00	NR	NR	1.79	132	132	9/9/2017		0.36
<b>Sub Total / Average</b>			<b>12,500,000.00</b>	<b>12,500,000.00</b>	<b>12,500,000.00</b>			<b>1.79</b>	<b>132</b>	<b>132</b>			<b>0.36</b>
<b>Commercial Paper</b>													
Caterpillar 0 7/5/2017	24023GU54	Caterpillar	12,000,000.00	11,973,600.00	11,963,600.00	S&P-A1	Fitch-F1	1.72	66	66	7/5/2017		0.18
Credit Suisse New York 0 11/30/2017	2254EAYW7	Credit Suisse New York	10,000,000.00	9,918,351.09	9,917,206.48	Moody's-P1	S&P-A1	1.43	214	214	11/30/2017		0.59
GE Capital 0 11/9/2017	36164JY99	GE Capital	25,000,000.00	24,849,888.89	24,821,111.11	Moody's-P1	S&P-A1+	3.58	193	193	11/9/2017		0.53
Inova Hospital 0 7/13/2017	45778NUD4	Inova Hospital	18,800,000.00	18,759,809.77	18,753,292.44	Moody's-P1	S&P-A1+	2.69	74	74	7/13/2017		0.20
JP Morgan Securities 0 11/1/2017	46640PY15	JP Morgan Securities	10,000,000.00	9,933,194.45	9,914,055.56	Moody's-A1	S&P-SP-1	1.43	185	185	11/1/2017		0.51
JP Morgan Securities 0 12/1/2017	46640PZ14	JP Morgan Securities	20,000,000.00	19,838,750.00	19,799,000.00	Moody's-P1	S&P-A1	2.86	215	215	12/1/2017		0.59
Prudential Funding LLC 0 10/31/2017	74433GXX9	Prudential Funding LLC	15,000,000.00	14,912,600.00	14,895,025.00	Moody's-P1	S&P-A1+	2.15	184	184	10/31/2017		0.50
<b>Sub Total / Average</b>			<b>110,800,000.00</b>	<b>110,186,194.20</b>	<b>110,063,290.59</b>			<b>15.86</b>	<b>163</b>	<b>163</b>			<b>0.45</b>
<b>Corporate Bond</b>													
Berkshire Hathaway 1.45 3/7/2018	084464CE9	Berkshire Hathaway	29,175,000.00	29,224,271.12	29,211,468.75	Moody's-Aa2	S&P-AA	4.18	311	311	3/7/2018		0.85
Berkshire Hathaway 1.45 3/7/2018	084664CE9	Berkshire Hathaway	2,240,000.00	2,242,833.91	2,242,800.00	Moody's-Aa2	S&P-AA	0.32	311	311	3/7/2018		0.85
Berkshire Hathaway 1.55 2/9/2018	084670BH0	Berkshire Hathaway	5,828,000.00	5,845,891.76	5,838,840.08	Moody's-Aa2	S&P-AA	0.83	285	285	2/9/2018		0.77
Coca Cola 1.65 3/14/2018	191216AY6	Coca Cola	1,895,000.00	1,902,013.13	1,900,268.10	Moody's-Aa3	S&P-AA-	0.27	318	318	3/14/2018		0.87
Coca Cola 1.65 3/14/2018	191216AY6	Coca Cola	1,405,000.00	1,410,199.71	1,408,905.90	Moody's-Aa3	S&P-AA-	0.20	318	318	3/14/2018		0.87
Coca Cola 1.65 3/14/2018	191216AY6	Coca Cola	10,099,000.00	10,136,482.99	10,127,075.22	Moody's-Aa3	S&P-AA-	1.45	318	318	3/14/2018		0.87
Coca Cola 1.65 3/14/2018	191216AY6	Coca Cola	9,421,000.00	9,455,937.80	9,447,190.38	Moody's-Aa3	S&P-AA-	1.35	318	318	3/14/2018		0.87
Exxon Mobile 1.305 3/6/2018	30231GAL6	Exxon Mobile	20,000,000.00	20,023,484.85	19,998,800.00	Moody's-Aaa	S&P-AA+	2.86	310	310	3/6/2018		0.85
IBM 1.125 2/6/2018	459200HZ7	IBM	3,300,000.00	3,301,011.52	3,296,964.00	Moody's-Aa3	S&P-AA-	0.47	282	282	2/6/2018		0.76
IBM 1.125 2/6/2018	459200HZ7	IBM	8,429,000.00	8,431,583.67	8,421,245.32	Moody's-Aa3	S&P-AA-	1.21	282	282	2/6/2018		0.76
IBM 1.125 2/6/2018	459200HZ7	IBM	7,000,000.00	7,002,145.65	6,993,560.00	Moody's-Aa3	S&P-AA-	1.00	282	282	2/6/2018		0.76
IBM 1.125 2/6/2018	459200HZ7	IBM	4,775,000.00	4,776,463.64	4,770,807.00	Moody's-Aa3	S&P-AA-	0.68	282	282	2/6/2018		0.76
Nestle Holdings Inc 1.375 7/24/2018	U64106BW3	Nestle Holdings Inc	3,085,000.00	3,084,750.49	3,084,710.01	Moody's-Aa2	S&P-AA	0.44	450	450	7/24/2018		1.22
Standard Charter Bank NY 1.54 1/9/2018	85325TSB2	Standard Charter Bank NY	10,000,000.00	10,006,279.44	10,006,897.50	Moody's-P1	S&P-A1	1.43	254	254	1/9/2018		0.69
Standard Charter Bank of NY 1.37 10/23/2017	85325TSQ9	Standard Charter Bank of NY	10,000,000.00	10,000,000.00	9,999,500.00	Moody's-P1	S&P-A1	1.43	176	176	10/23/2017		0.48
Stanford University 4.75 5/1/2019	854403AC6	Stanford University	5,000,000.00	5,319,663.83	5,308,000.00	Moody's-Aaa	S&P-AAA	0.72	731	731	5/1/2019		1.89
Stanford University 4.75 5/1/2019	854403AC6	Stanford University	5,515,000.00	5,867,589.20	5,854,724.00	Moody's-Aaa	S&P-AAA	0.79	731	731	5/1/2019		1.89



Description	CUSIP/Ticker	Issuer	Face Amount/Shares	Book Value	Market Value	Credit Rating 1	Credit Rating 2	% of Portfolio	Days To Maturity	Days To Call/Maturity	Maturity Date	Next Call Date	Duration To Maturity
Toyota Motor Corp 1.2 4/6/2018	89236TCX1	Toyota Motor Corp	12,845,000.00	12,830,006.84	12,828,044.60	Moody's-Aa3	S&P-AA-	1.84	341	341	4/6/2018		0.93
Toyota Motor Corp 1.375 1/10/2018	89233P7E0	Toyota Motor Corp	20,000,000.00	20,023,929.62	19,997,000.00	Moody's-Aa3	S&P-AA-	2.86	255	255	1/10/2018		0.69
Wells Fargo Bank 1.65 1/22/2018	94988J5A1	Wells Fargo Bank	10,000,000.00	10,025,409.55	10,016,000.00	Moody's-Aa2	S&P-AA-	1.43	267	267	1/22/2018		0.72
Wells Fargo Bank 1.65 1/22/2018	94988J5A1	Wells Fargo Bank	10,000,000.00	10,018,995.14	10,016,000.00	Moody's-Aa2	S&P-AA-	1.43	267	267	1/22/2018		0.72
Wells Fargo Bank 1.65 1/22/2018	94988J5A1	Wells Fargo Bank	555,000.00	556,176.92	555,888.00	Moody's-Aa2	S&P-AA-	0.08	267	267	1/22/2018		0.72
Wells Fargo Bank 1.65 1/22/2018	94988J5A1	Wells Fargo Bank	1,400,000.00	1,402,947.53	1,402,240.00	Moody's-Aa2	S&P-AA-	0.20	267	267	1/22/2018		0.72
Wells Fargo Bank 1.65 1/22/2018	94988J5A1	Wells Fargo Bank	1,160,000.00	1,162,493.70	1,161,856.00	Moody's-Aa2	S&P-AA-	0.17	267	267	1/22/2018		0.72
Wells Fargo Bank 1.8 11/28/2018	94988J5F0	Wells Fargo Bank	15,200,000.00	15,237,872.18	15,210,184.00	Moody's-Aa2	Fitch-AA	2.18	577	577	11/28/2018		1.55
Wells Fargo Bank 1.8 11/28/2018	94988J5F0	Wells Fargo Bank	8,850,000.00	8,871,950.80	8,855,929.50	Moody's-Aa2	Fitch-AA	1.27	577	577	11/28/2018		1.55
<b>Sub Total / Average</b>			<b>217,177,000.00</b>	<b>218,160,384.79</b>	<b>217,954,698.36</b>			<b>31.09</b>	<b>343</b>	<b>343</b>			<b>0.93</b>
<b>FFCB Bond</b>													
FFCB 1.4 3/27/2019	3133EHDR1	FFCB	10,000,000.00	10,009,343.56	9,998,500.00	Moody's-Aaa	S&P-AA+	1.43	696	696	3/27/2019		1.89
<b>Sub Total / Average</b>			<b>10,000,000.00</b>	<b>10,009,343.56</b>	<b>9,998,500.00</b>			<b>1.43</b>	<b>696</b>	<b>696</b>			<b>1.89</b>
<b>FHLB Bond</b>													
FHLB 1.75 12/14/2018	313376BR5	FHLB	5,000,000.00	5,038,441.83	5,037,650.00	Moody's-Aaa	S&P-AA+	0.72	593	593	12/14/2018		1.60
<b>Sub Total / Average</b>			<b>5,000,000.00</b>	<b>5,038,441.83</b>	<b>5,037,650.00</b>			<b>0.72</b>	<b>593</b>	<b>593</b>			<b>1.60</b>
<b>FHLMC Bond</b>													
FHLMC 1.35 1/25/2019-17	3134GAK78	FHLMC	10,000,000.00	10,000,000.00	9,994,400.00	Moody's-Aaa	S&P-AA+	1.43	635	86	1/25/2019	7/25/2017	1.72
FHLMC 1.375 3/15/2019	3134GA5A8	FHLMC	5,000,000.00	5,000,000.00	4,998,100.00	S&P-AA+	Fitch-AAA	0.72	684	684	3/15/2019		1.85
FHLMC Step 9/30/2019-17	3134GAKN3	FHLMC	4,500,000.00	4,488,813.34	4,480,335.00	Moody's-Aaa	S&P-AA+	0.64	883	61	9/30/2019	6/30/2017	2.39
<b>Sub Total / Average</b>			<b>19,500,000.00</b>	<b>19,488,813.34</b>	<b>19,472,835.00</b>			<b>2.79</b>	<b>705</b>	<b>234</b>			<b>1.91</b>
<b>Local Government Investment Pool</b>													
Commonwealth of Virginia LGIP	LGIP0825	Commonwealth of Virginia	1,589,254.24	1,589,254.24	1,589,254.24	S&P-AAA	NR	0.23	1	1	N/A	N/A	0.00
Commonwealth of Virginia LGIP	LGIP0549	Commonwealth of Virginia	48,685,431.30	48,685,431.30	48,685,431.30	S&P-AAA	NR	6.97	1	1	N/A	N/A	0.00
VIP 1-3 Year LGIP	LGIP0001	VIP 1-3 Year	75,847,921.07	75,847,921.07	75,847,921.07	S&P-AA+	NR	10.86	1	1	N/A	N/A	0.00
VIP Stable NAV LGIP	LGIP5001	VIP Stable NAV	59,262,458.72	59,262,458.72	59,262,458.72	S&P-AAA	NR	8.48	1	1	N/A	N/A	0.00
<b>Sub Total / Average</b>			<b>185,385,065.33</b>	<b>185,385,065.33</b>	<b>185,385,065.33</b>			<b>26.54</b>	<b>1</b>	<b>1</b>			<b>0.00</b>
<b>Money Market</b>													
Access National Bank MM	MM7182	Access National Bank	60,762,883.22	60,762,883.22	60,762,883.22	NR	NR	8.70	1	1	N/A	N/A	0.00
BB&T MM	MM1006	BB&T	3,318,755.38	3,318,755.38	3,318,755.38	NR	NR	0.48	1	1	N/A	N/A	0.00
John Marshall Bank MM	MM0080	John Marshall Bank	14,189,805.86	14,189,805.86	14,189,805.86	NR	NR	2.03	1	1	N/A	N/A	0.00
<b>Sub Total / Average</b>			<b>78,271,444.46</b>	<b>78,271,444.46</b>	<b>78,271,444.46</b>			<b>11.20</b>	<b>1</b>	<b>1</b>			<b>0.00</b>
<b>Negotiable Certificate Of Deposit</b>													
CitiBank NA 1.25 7/25/2017	17305TKP6	CitiBank NA	20,000,000.00	20,006,187.05	20,008,200.00	Moody's-P1	S&P-A1	2.86	86	86	7/25/2017		0.24
Mizuho Bank Ltd/NY 1.3 9/18/2017	60689D4K6	Mizuho Bank Ltd/NY	15,000,000.00	15,005,869.38	15,003,600.00	Moody's-P1	S&P-A1	2.15	141	141	9/18/2017		0.39

Description	CUSIP/Ticker	Issuer	Face Amount/Shares	Book Value	Market Value	Credit Rating 1	Credit Rating 2	% of Portfolio	Days To Maturity	Days To Call/Maturity	Maturity Date	Next Call Date	Duration To Maturity
Standard Charter Bank of NY 1.66 2/12/2018	85325TQZ1	Standard Charter Bank of NY	10,000,000.00	10,007,876.78	10,007,600.00	Moody's-P1	S&P-A1	1.43	288	288	2/12/2018		0.80
UBS Bank Stamford CT Branch 1.46 12/13/2017	90275DFE5	UBS Bank Stamford CT Branch	15,000,000.00	15,013,042.88	15,006,900.00	Moody's-P1	S&P-A1	2.15	227	227	12/13/2017		0.62
Sub Total / Average			60,000,000.00	60,032,976.09	60,026,300.00			8.59	169	169			0.47
Total / Average			698,633,509.79	699,072,663.60	698,709,783.74			100	183	170			0.50



## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

### MEMORANDUM

**FOR:** Members, Northern Virginia Transportation Authority

**FROM:** Chairman Martin E. Nohe, Planning and Programming Committee

**DATE:** June 5, 2017

**SUBJECT:** Approval of the Release of the TransAction Plan Draft and Associated Project List for Public Comment

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1. **Purpose.** To seek Northern Virginia Transportation Authority (NVTA) approval of the release of the TransAction Plan Draft and associated Project List for public comment. Comments are being requested on both these documents during the public comment period, from June 9, 2017 through midnight on July 23, 2017.
2. **Suggested Motion:** *I move approval of the release of the TransAction Plan Draft and associated Project List for public comment.*
3. **Background.** At its May 31, 2017 meeting, the NVTA Planning and Programming Committee (PPC) received a briefing on the TransAction findings and NVTA staff recommendations. The PPC also discussed draft versions of the TransAction Plan and associated Project List.
4. **Discussion.** Feedback provided by the PPC and the TransAction Subcommittee, comprising jurisdictional and agency staff, on draft versions of the TransAction Plan and associated Project List has been incorporated into the two draft documents attached to this memorandum. Subject to Authority approval, and in addition to the Authority's Public Hearing and jurisdictional Town Hall meetings, these documents will be made available and/or announced as follows:
  - a. **Notices and Advertisements**---formal legal notices and other announcements related to the Public Hearing and public comment period will be made in the print media;
  - b. **Online**---through the Authority's dedicated TransAction website;
  - c. **Authority eBlasts**---to those who subscribe to the Authority's electronic newsletters;
  - d. **Media releases**---to regional and local media outlets that regularly report on the Authority's activities;
  - e. **Social media**---using the Authority's Facebook page and Twitter accounts;
  - f. **Public Information Officers (PIOs)**---NVTA staff will work with jurisdictional and agency PIOs to leverage their respective networks;
  - g. **Authority Members**---NVTA staff will work with Authority members to provide relevant content for their respective newsletters;

- h. Pop-up events**---two pop-up events have been scheduled; *Celebrate Fairfax!* on June 9-11, and a discussion entitled *The Link Between Transportation and Regional Development* hosted by the Northern Virginia Chamber of Commerce on June 27. (Note: neither of these events are hosted by NVTAA and an admission charge/registration fee applies); and
    - i. Print**---at the NVTAA offices, and through public libraries across the region.
- 5. Next steps.** Planning for the public comment period, including the Authority's Public Hearing and jurisdictional Town Hall meetings, is progressing to schedule. The Public Hearing will take place on July 13, 2017, the same evening as the Authority's regular monthly meeting. The Public Hearing will be preceded by an Open House at 5:30pm in the main lobby of the NVTAA offices. Jurisdictional Town Hall meetings have been scheduled across the region, both before and after the Authority's Public Hearing. Locations, dates, and times will be made available.

Following the end of the public comment period at midnight on July 23, 2017, NVTA staff and the AECOM consultant team will review and summarize all comments received. A detailed version of the TransAction Plan Draft will be prepared over the summer, incorporating comments and any follow up actions as necessary.

Adoption of the Final TransAction Plan is scheduled at the October 12, 2017 Authority meeting.

Attachments:

- A. TransAction Plan: Draft for Public Comment**  
**B. TransAction Plan Project List: Draft for Public Comment**

## TransAction Plan *Draft for Public Comment*

*Spring/Summer 2017*

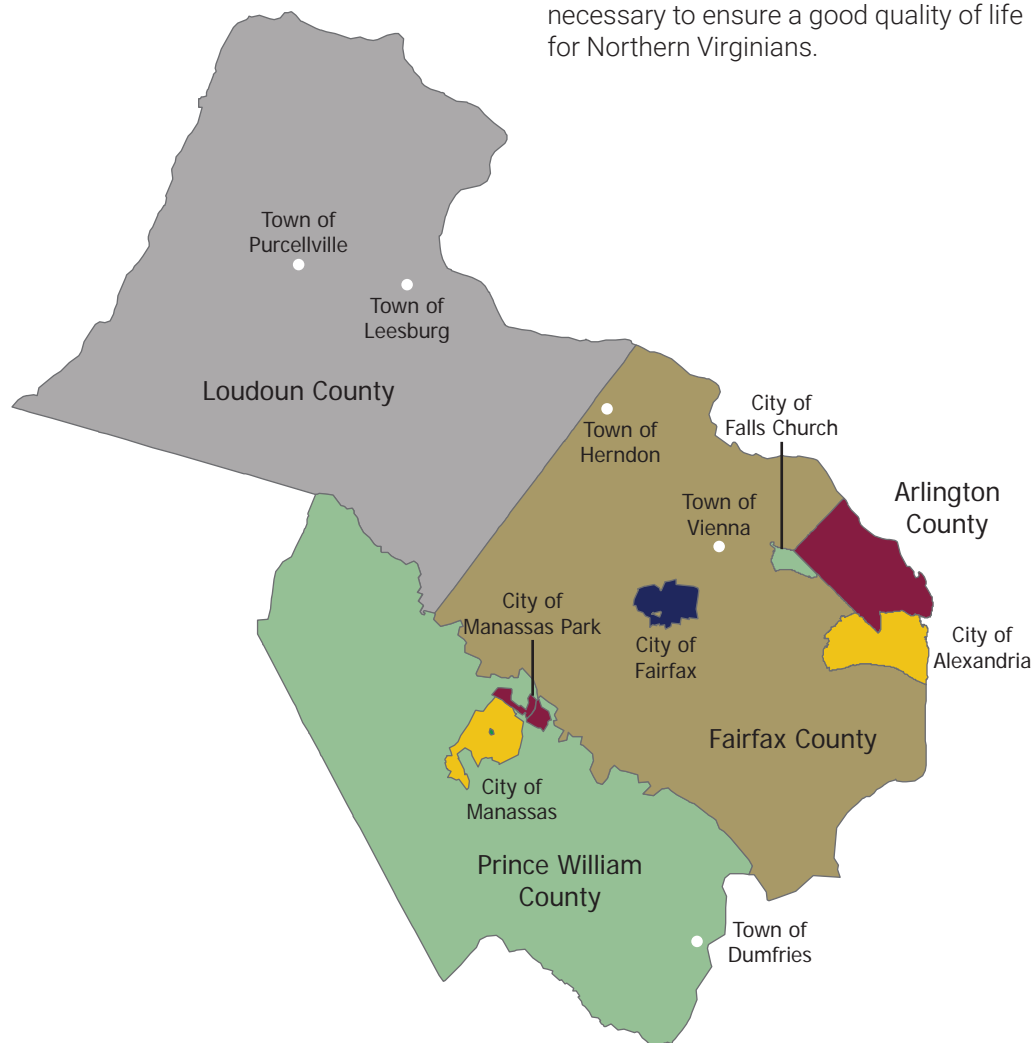
Comments are invited on this TransAction Plan, and associated TransAction Plan Project List. Please see the back cover for details of how to provide feedback.



TransAction is the multimodal transportation master plan for Northern Virginia. It is a long range plan addressing regional transportation needs through 2040. The Plan focuses on eleven major travel corridors in Northern Virginia, and identifies over 350 candidate regional projects for future transportation investments to improve travel throughout the region. TransAction is not bound to any budget, and proposes more projects than can realistically be funded. The results of TransAction are used to inform the NVTA's Six Year Program for capital funding, guiding decisions about which transportation improvements the NVTA should prioritize for investment.

By 2040, population in Northern Virginia is forecast to increase by 24 percent, and employment by 37 percent. While this is great for the region's economic vitality,

this growth is expected to increase traffic congestion and crowding on bus and rail services. Transportation investments, such as those included in TransAction, are necessary to ensure a good quality of life for Northern Virginians.



TransAction is developed and maintained by the Northern Virginia Transportation Authority ("NVTA" or "the Authority"). The NVTA is a regional body that is focused on delivering real transportation solutions and value for Northern Virginia's transportation dollars by bringing Northern Virginia jurisdictions and agencies together to prioritize projects and implement solutions.

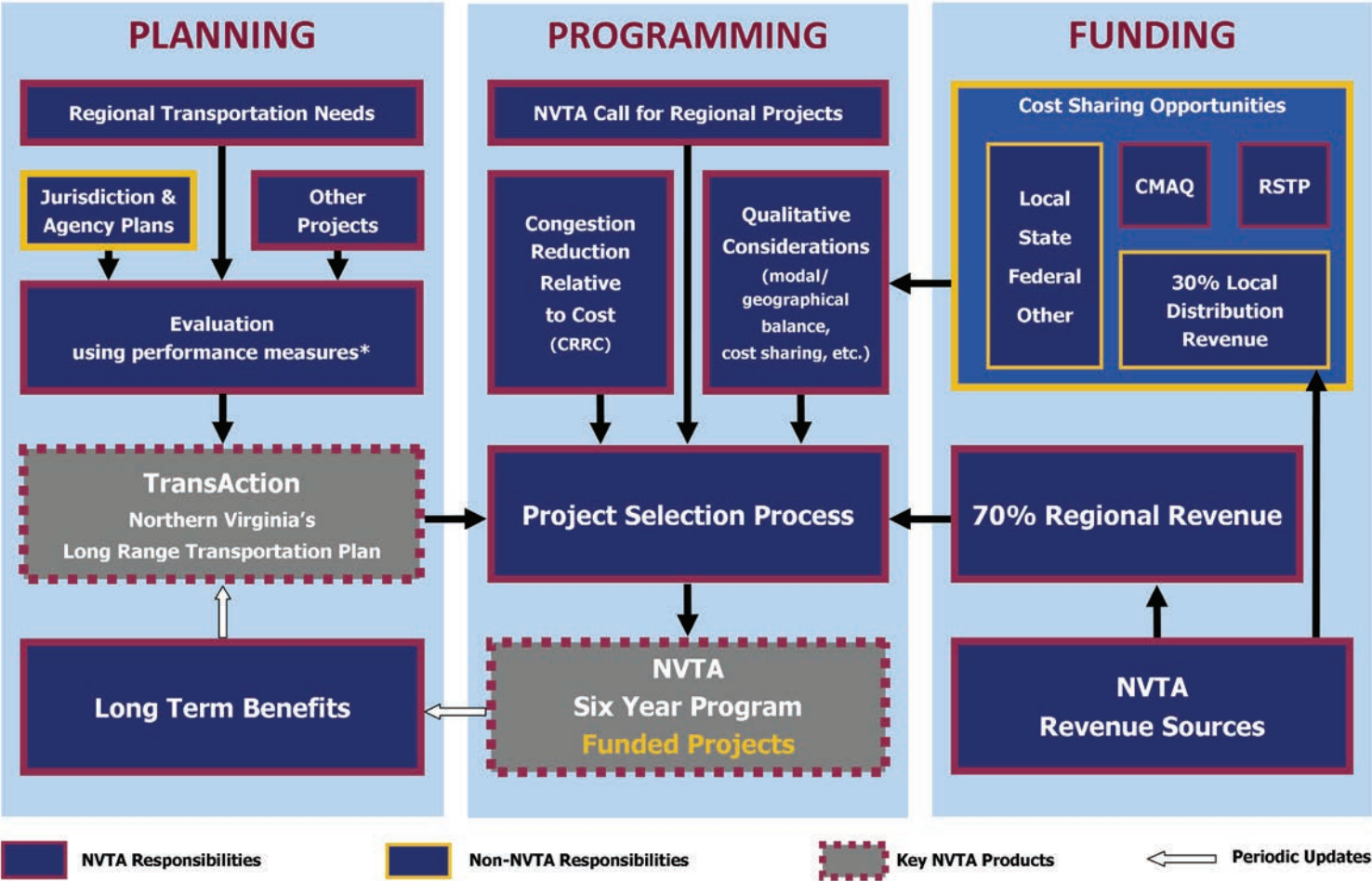


Review the TransAction Plan Project List at:  
[NVTATransAction.org/resources/](http://NVTATransAction.org/resources/)

# What Does The NVTA Do?

## NVTA's Function

The NVTA's two key products are the TransAction Plan and the Six Year Program, which funds projects. This chart shows the many interrelated factors that go into creating those products.



TransAction is one of the NVTA's two key products. In addition to meeting various State mandates\*, TransAction is an important input to NVTA's other key product — the Six Year Program of funded projects. Subject to available revenues, the NVTA will decide in Spring 2018 which of the more than 350 projects included in TransAction will be selected for inclusion in the Six Year Program.

## TransAction Project Timeline

The TransAction Plan incorporates continuous stakeholder input and community dialogue to identify regional transportation needs and solutions. As indicated by the timeline below,

TransAction was developed using state-of-the-art forecasting and analytical techniques, complemented by outreach to citizens and regional stakeholders, within an overall collaborative approach that

was guided by Authority members and independent technical experts. Members of the public were able to provide input at any time during the process.



\* Virginia Code mandates that the NVTA is responsible for developing and maintaining the long range transportation plan for Northern Virginia. Any project to be included in the NVTA Six Year Program must be evaluated in accordance with a state-mandated process referred to as HB 599, which takes its name from legislation enacted by the Virginia Assembly in 2012.



# How Was Performance Measured In TransAction?

"In the 21st century, Northern Virginia will develop and sustain a multimodal transportation system that enhances quality of life and supports economic growth. Investments in the system will provide effective transportation benefits, promote areas of concentrated growth, manage both demand and capacity, and employ the best technology, joining rail, roadway, bus, air, water, pedestrian, and bicycle facilities into an interconnected network that is fiscally sustainable."

- **TransAction Vision Statement**

## Robust Process

TransAction uses a performance-based planning approach that allows policies and goals to be expressed in quantifiable terms, and creates an analytical framework to determine the degree to which different investment packages meet the goals. This approach is intended to lead to a more systematic and analytical selection process for investment priorities.

The table below outlines the goals, objectives, and performance measures that were developed to provide this analytical framework to guide the TransAction Plan.

## Evaluation Using Performance Measures

In order to account for all 15 performance measures, an overall performance rating was developed. Each performance measure was assigned a weight of either five or ten percent, together totaling 100 percent. The score for each performance measure is multiplied by these weights to generate a total rating. These calculations were performed at a fine-level of geographic detail for comparisons between existing conditions and 2040 conditions with and without the TransAction Plan.

**Vision:** The vision statement articulates a preferred idealized state.



**Goals** focus on priorities and outcomes the region desires to move toward.



**Objectives** are measurable and targeted actions that result in incremental but tangible advancement toward the stated goals.



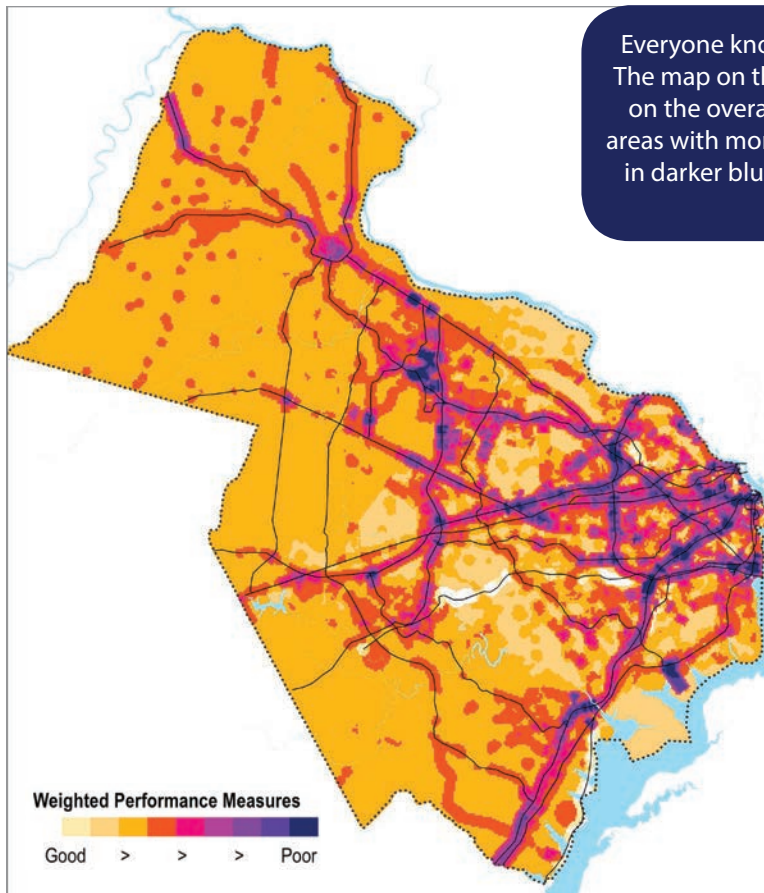
**Performance Measures** are used to evaluate potential performance of the transportation network. They derive from the stated objectives.

Goal	Objective	Performance Measure	Weight
Goal 1: Enhance quality of life and economic strength of Northern Virginia through transportation	Reduce congestion and crowding experienced by travelers in the region	Total person hours of delay*	10%
		Transit crowding*	5%
		Person hours of congested travel in automobiles*	5%
		Person hours of congested travel in transit vehicles*	5%
	Improve travel time reliability	Congestion severity: maximum travel time ratio	5%
		Congestion duration*	10%
	Increase access to jobs, employees, markets, and destinations	Percent of jobs/population within 1/2 mile of high frequency and/or high performance transit	5%
		Access to jobs within 45 minutes by auto or within 60 minutes by transit*	5%
	Improve connections among and within areas of concentrated growth	Average travel time per motorized trip between Regional Activity Centers	5%
		Walkable/bikeable environment within a Regional Activity Center	5%
Goal 2: Enable optimal use of the transportation network and leverage the existing network	Improve the safety of transportation network	Safety of the transportation system	5%
	Increase integration between modes and systems	First and last mile connections	10%
	Provide more route and mode options to expand travel choices and improve resiliency of the system	Share of travel by non-SOV modes	10%
	Sustain and improve operation of the regional system	Person hours of travel caused by 10% increase in PM peak hour demand*	5%
Goal 3: Reduce negative impacts of transportation on communities and the environment	Reduce transportation related emissions	Vehicle miles traveled (VMT) by speed	10%

\* Measure included in HB 599 rating process.

# What Are Today's Transportation Conditions?

## 2016 Overall Performance Rating Map

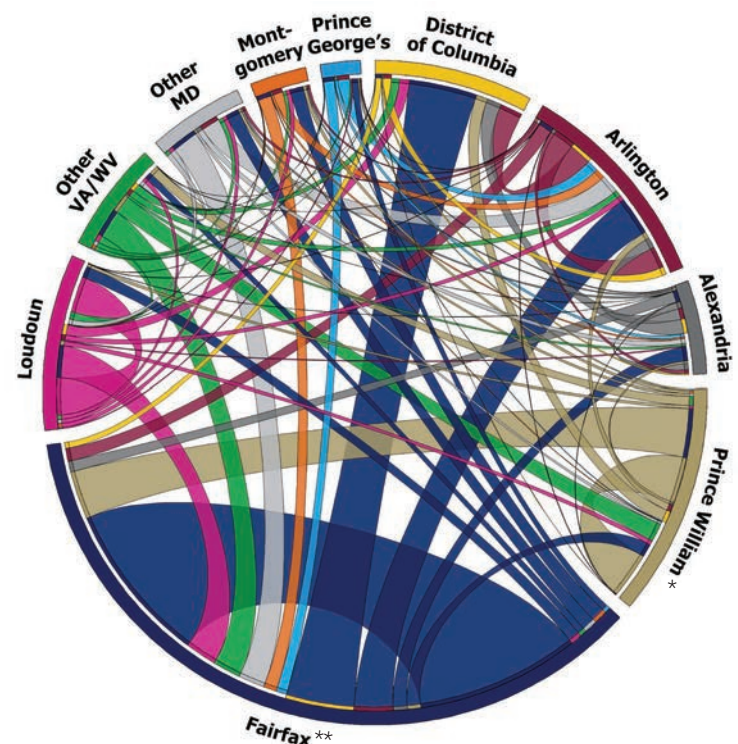


Everyone knows that transportation is a major concern in Northern Virginia today. The map on this page highlights some of the existing problems in the region based on the overall weighted performance rating. As expected, the analysis highlights areas with more severe issues along all of the major corridors in the region, as shown in darker blue. These locations correspond with areas of concern identified by the public during TransAction's outreach efforts.

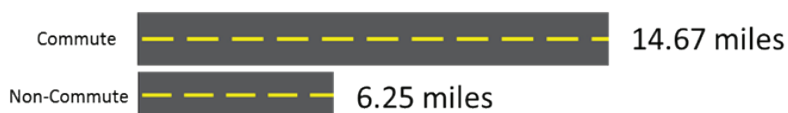
## 2016 Origin-Destination Commute Travel Patterns

The focus of TransAction is on accommodating regional travel. The circular diagram to the right shows the proportion of people commuting between the jurisdictions in Northern Virginia each day. The graphic illustrates that the majority of regional travel in Northern Virginia tends to stay within the same jurisdiction. Travel for non-commute purposes is even more likely to stay within a single jurisdiction, as the average trip length for these types of trips is much shorter.

In order to address regional traffic problems, Northern Virginia must address both short and long-distance travel needs.



## Average Trip Length



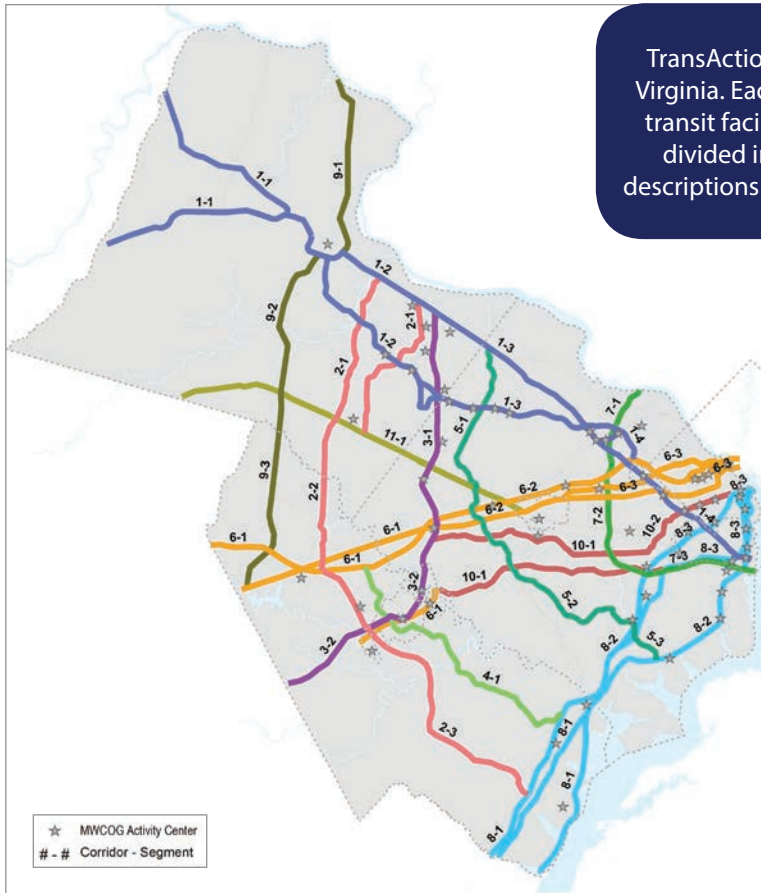
\* Includes trips for the independent cities of Manassas and Manassas Park.

\*\* Includes trips for the independent cities of Fairfax and Falls Church.



# What Is Included In The Plan?

## TransAction Corridor Segments



TransAction focuses much of its analysis on eleven major corridors in Northern Virginia. Each corridor is multimodal in nature and includes roadway and parallel transit facilities. Because conditions vary along these corridors, they are further divided into 28 Corridor Segments as shown in the map to the left. Detailed descriptions of the boundaries of each segment can be found in the table on page 10.

- Corridor 1: Route 7/Dulles Toll Road/Silver Line
- Corridor 2: Loudoun County Pkwy/Bi-County Pkwy/Route 234
- Corridor 3: Route 28
- Corridor 4: Prince William Pkwy
- Corridor 5: Fairfax County Pkwy
- Corridor 6: I-66/US 29/US 50 Inner/Orange-Silver Line/VRE Manassas
- Corridor 7: I-495 Beltway
- Corridor 8: I-95/I-395/US 1/VRE Fredericksburg/Blue-Yellow Line
- Corridor 9: US 15
- Corridor 10: Columbia Pike/Braddock Rd/VRE Manassas
- Corridor 11: US 50 Outer

**TransAction: 358 projects**  
**Estimated Cost: \$44.1 billion**

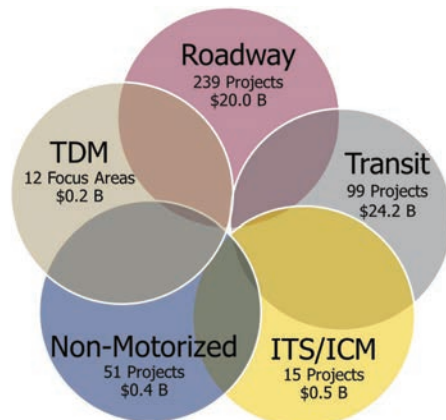
Review the TransAction Plan  
Project List at:  
[NVTATransAction.org/resources/](http://NVTATransAction.org/resources/)

## The Plan

A balanced set of projects, programs, and policies will be needed to achieve the region's goals of continued economic growth and improved quality of life for residents. The Draft Plan includes 358 regionally significant transportation improvement projects

and programs, at an estimated cost of \$44.1 billion. However, \$10-13 billion of this cost estimate is associated with project components outside of Northern Virginia, and can only be funded and implemented in partnership with neighboring jurisdictions.

The projects vary in scope from targeted intersection and sidewalk improvements at specific locations to mega-projects involving the expansion of freeway facilities and extension of heavy rail transit lines. Transportation improvements included in the Plan comprise a variety of multimodal elements including roadway, transit, TDM, non-motorized, ITS, and ICM improvements. The diagram above recognizes that some projects fall into more than one category.



**Roadway:** Includes the construction of new roads, capacity improvements on existing roads, and reconstruction of existing roads.

**Transit:** Includes Metrorail extensions, new Light Rail Transit (LRT) and Bus Rapid Transit (BRT) lines, improvements to existing bus and rail services, and station access improvements.

**Transportation Demand Management (TDM):** A set of services designed to provide commuters with alternative options to driving alone by providing information, programs, and incentives to encourage a shift in traveler mode.

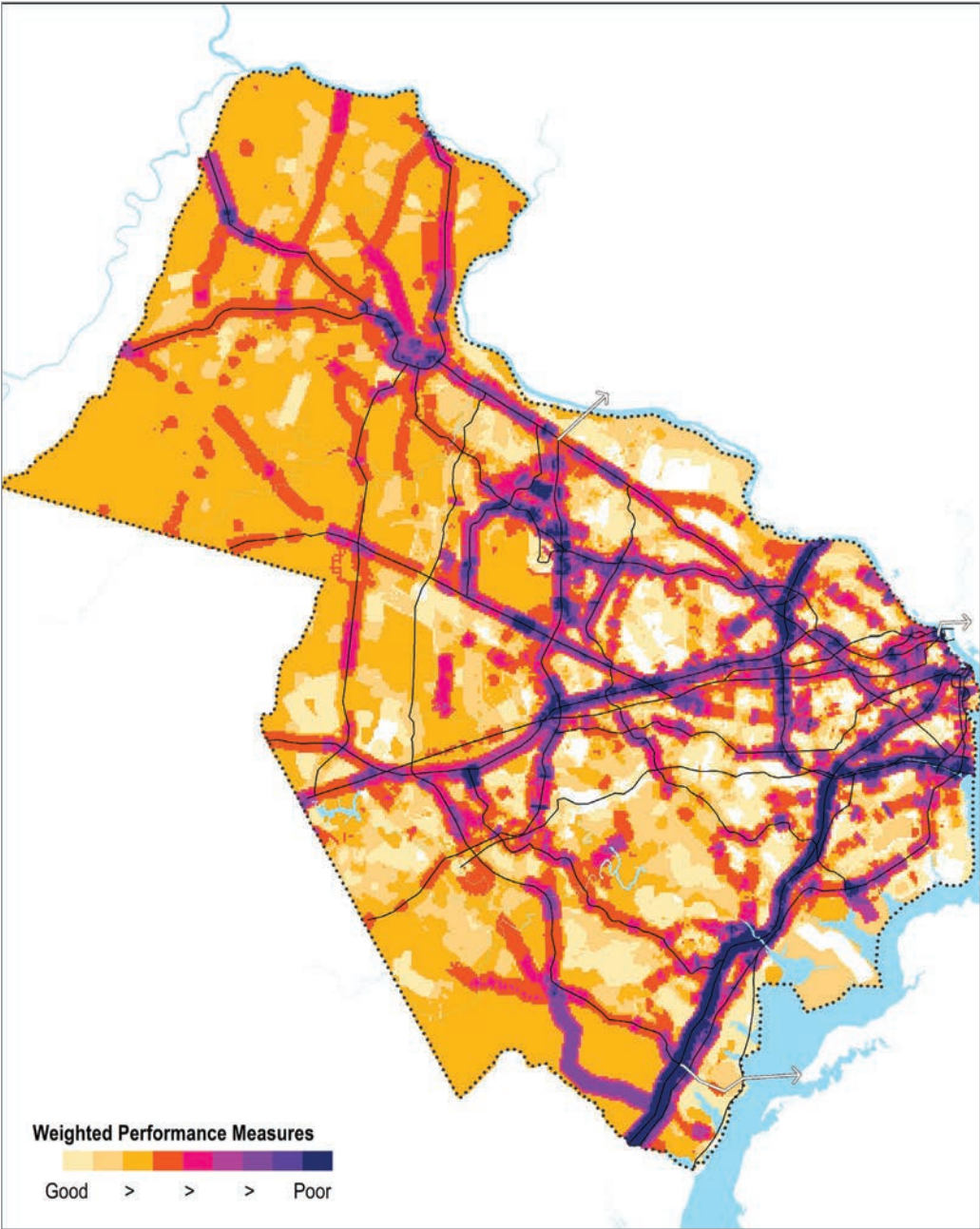
**Non-Motorized:** Includes bicycle and pedestrian projects that address key connectivity in the region.

**Intelligent Transportation Systems (ITS):** Includes technologies to process and communicate traffic information, to optimize operations, provide information to travelers in real-time, and improve the safety, efficiency, and service levels on roadway facilities.

**Integrated Corridor Management (ICM):** Addresses congestion along a corridor by making more thorough use of all the available facilities in a corridor, including parallel roadways and transit.

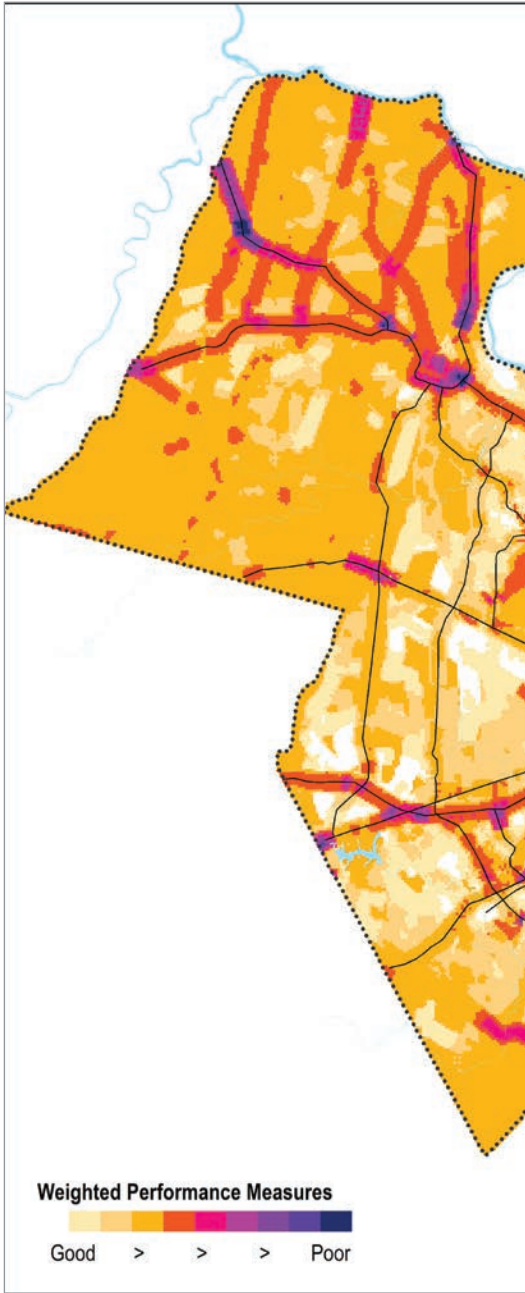
# What Are The Benefits Of The Plan?

2040 'No Build' Overall Performance Rating



This map shows the overall performance rating for the Northern Virginia region under the 2040 'No Build' conditions. Areas shown in darker blue perform worse based on this rating, which combines the 15 performance measures. The 2040 'No Build' includes only projects that are already fully funded.

Draft Plan Overall Performance Rating



This map shows the overall performance rating for the Northern Virginia region under the Draft Plan conditions. Areas shown in darker blue perform worse based on this rating, which combines the 15 performance measures. The Draft Plan includes 358 elements of the major corridors in Northern Virginia with transportation conditions with the

Performance of the regional transportation system, measured across the 15 TransAction measures, shows significant improvement across most of Northern Virginia. These benefits are most apparent along I-66, I-495, I-95, Loudoun County Parkway, Route 28, and portions of Route 7.



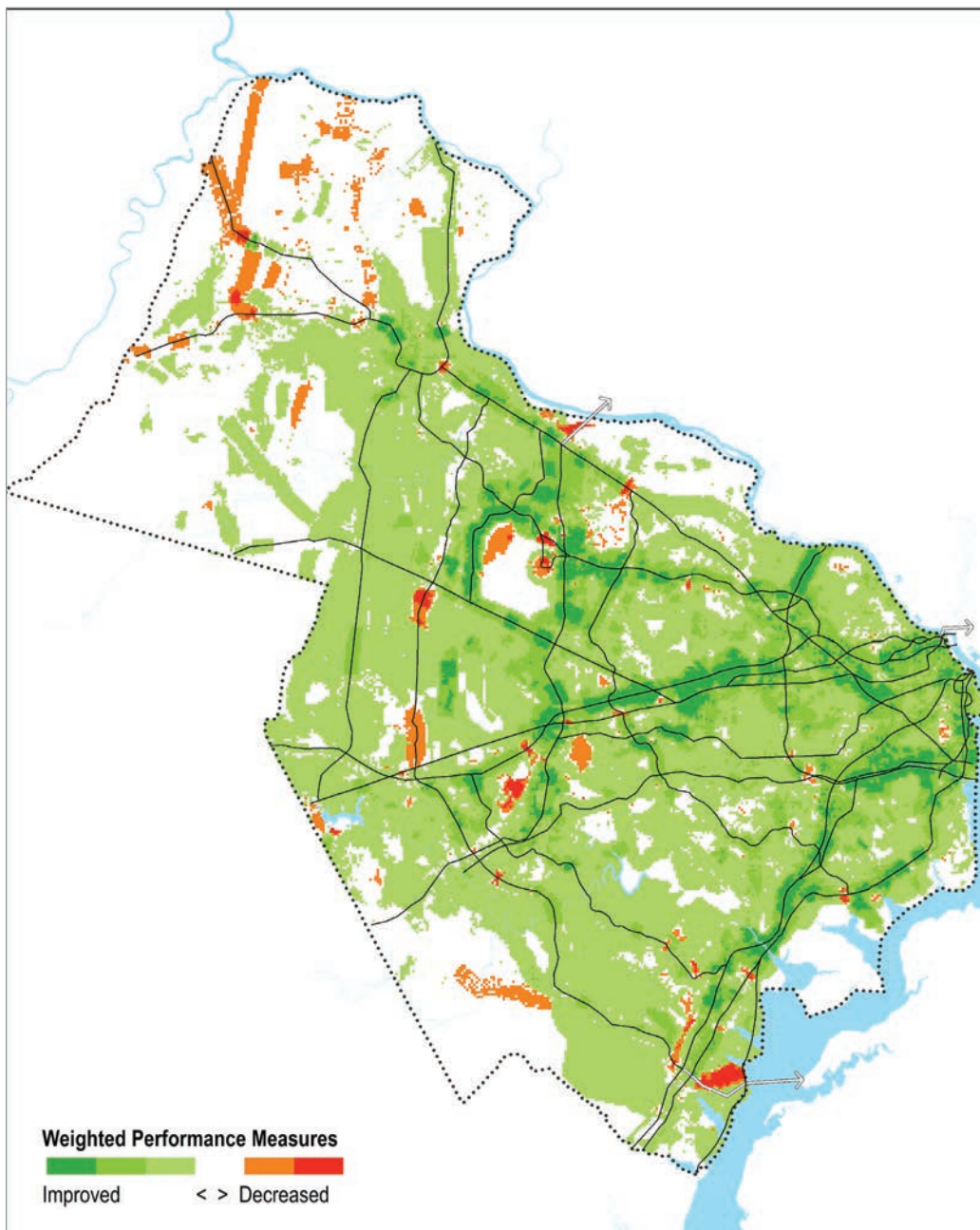


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## Draft Plan Compared to 2040 'No Build' - Overall Performance Rating



ating for the Northern Virginia region with the TransAction Draft Plan. As shown, many will experience significant improvements in the implementation of TransAction.



This map shows the change in the overall performance rating caused by the implementation of the Draft Plan. Areas shown in green are forecast to experience an improvement in conditions with implementation of the Draft Plan, while areas shown in orange are forecast to perform worse than without the Draft Plan.

There are several locations where conditions get worse with the Draft Plan. One reason for this is that new facilities carry no traffic and therefore experience no congestion before their construction, but do experience some afterwards. Another reason is the diversion of traffic onto facilities that cannot be widened for various reasons (designated scenic byways, right-of-way limitations, etc.). This is particularly the case in some of the outer suburbs, especially in western Loudoun County where increases in congestion are causing decreases in performance.

# What Are The Benefits Of The Plan?

## Draft Plan - Northern Virginia Statistics

Daily Measures	2016	2040 'No Build'	Draft Plan	Change from 'No Build'
Transit Boardings	1.0 M	1.4 M	1.6 M	14% increase
Person Trips in Motorized Vehicles	8.74 M	10.5 M	10.6 M	1% increase
Person-Miles of Travel	105 M	125 M	125 M	0.4% decrease
Person-Hours of Travel	3.30 M	5.81 M	4.45 M	24% decrease
Person-Hours of Delay	1.01 M	3.03 M	1.70 M	44% decrease
Person-Hours of Delay per Capita	0.42	1.01	0.57	44% decrease
Service Hours of Crowded Transit	10,800	20,100	7,200	64% decrease

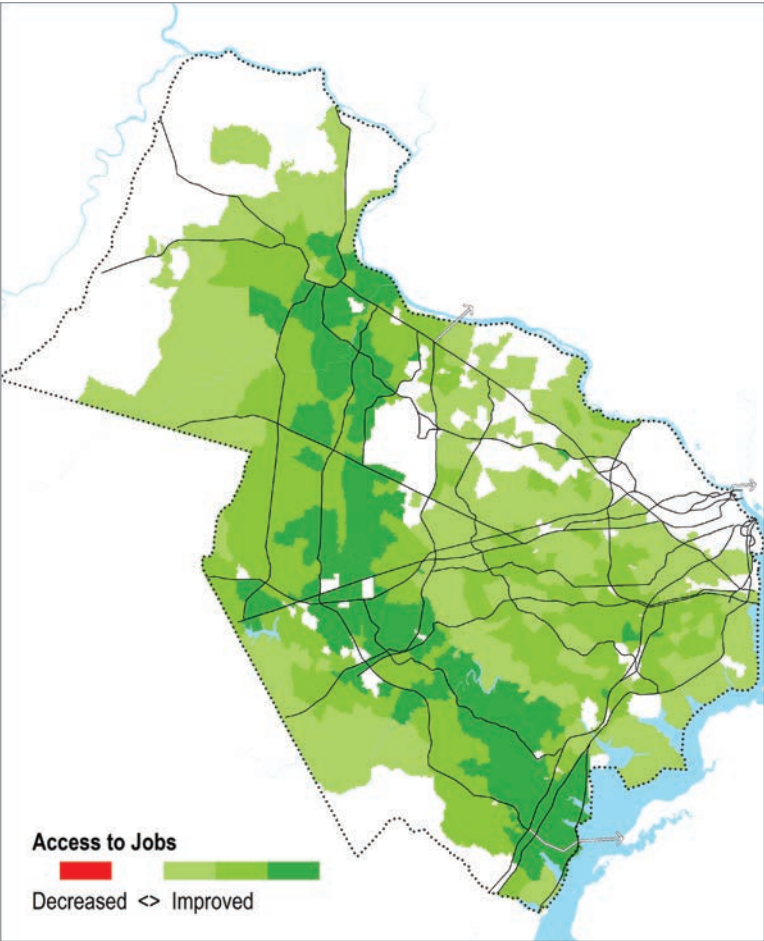
Overall, the results of this analysis show that the improvements included in the Draft Plan benefit the entire Northern Virginia region and improve travel conditions in all corridors when compared to the 2040 'No Build' conditions.

The Draft Plan will save the average Northern Virginian more than **27 minutes** each day.

Some of the major improvements noted on a regional level include:

- Improved travel conditions on all corridors.
- Noticeable reductions in person-hours of travel (24 percent) and person-hours of delay (44 percent), despite a slight increase in motorized trips in the region.
- Significant decrease in transit crowding (64 percent) to below 2016 levels, in part due to the inclusion of expansions to the regional transit network such as BRT and Metrorail expansions. This improvement is achieved with a simultaneous 14 percent increase in transit ridership.
- Marginal decrease in person-miles traveled.
- Job accessibility is noticeably improved for residents in a broad corridor from Leesburg to Dumfries because of improvements in the Plan. This means that more people will have access to more jobs.
- Improvements in walkability and bikeability in areas of high residential and employment density throughout Northern Virginia.
- Residual problem areas include I-95 and I-495.

## Draft Plan Compared to 'No Build' - Job Accessibility



Regional Totals	2016	2040	Change
Population	2.41 M	2.99 M	24%
Employment	1.36 M	1.87 M	37%

Benefits vary across the region, with different areas seeing varying levels of improvements in different performance measures. The improvements caused by the Draft Plan are significant, but in most cases are not enough to bring the region back to 2016 conditions. This is primarily due to the 24 percent increase in population and the 37 percent increase in employment that are forecast for the region by 2040.

### Improved Access to Jobs

Accessibility is an important consideration in the Draft Plan. The performance measure that looks at the increase in the average number of regional jobs that are accessible from households in Northern Virginia, assuming a 45-minute commute via auto or a 60-minute commute via transit is shown in this graphic. The Draft Plan results in widespread improvements in accessibility to jobs throughout the region with the greatest improvements in a wide swath of suburban communities in Loudoun and Prince William Counties, stretching from Leesburg in the north to Dumfries in the south. Improvement tends to be lower inside the Beltway, as jobs are already highly accessible in this area.



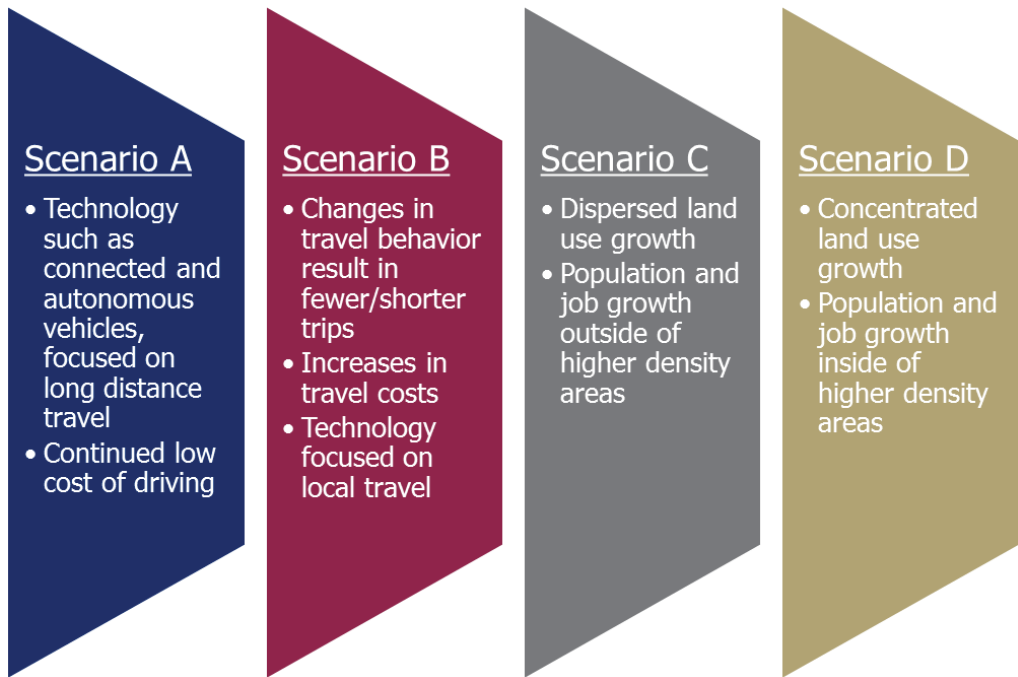
# What Happens If The Future Is Different Than Expected?

TransAction is built on standard assumptions for the region about future growth and technology. But what if the future is different from what we've assumed? To test TransAction's resiliency against an unpredictable future, four Stress Tests were performed, each analyzing TransAction's performance against significantly different assumptions about land use, technology, and travel behavior.

Transportation is in the midst of a series of quiet but profound revolutions. Travelers in the future will have choices that go beyond private cars or bus and rail transit. Many of these changes will take advantage of new technology, with some of the most dramatic changes yet to come. Some of the factors that present a high degree of uncertainty in the long-term include:

- Demographic characteristics and preferences;
- Development patterns;
- Activity patterns;
- Connected and autonomous vehicles;
- Shared travel;
- Economics;
- Freight and goods movement;
- Climate change and world events;
- Information and management technologies; and
- Policy and legal evolution.

Four alternative future scenarios were analyzed as part of the TransAction planning process that investigated the impacts of these trends on transportation conditions in 2040. This range of



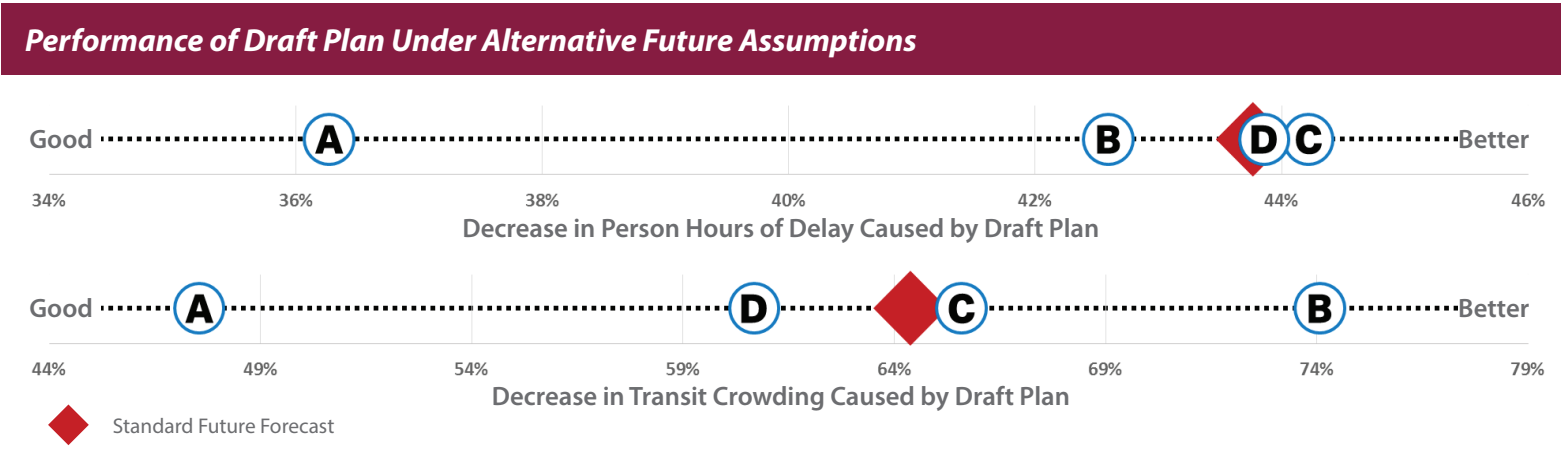
possible futures was developed to test the resiliency of improvements. It does not attempt to identify or assess every possible future, nor does it try to establish one exact picture of the future. Instead, this scenario planning effort defines a limited number of futures that — between them — encompass a wide array of potential outcomes resulting from a number of changing factors.

## Sensitivity Results

The results show that the Draft Plan does provide significant benefits under each of the potential alternate futures, although the percent improvement varies by performance measure across the scenarios. The figures below show the percent improvement achieved for two key performance measures for each of the alternative scenarios, as compared to

the standard future forecasts (as shown by the red diamond). For example, these graphics show that the Draft Plan achieves a larger reduction in transit crowding under Scenarios C and B, than the standard future forecast. Benefits are forecast for most areas across the region under each of the alternate future scenarios tested.

These results indicate that the elements of the Plan are likely to provide benefits to Northern Virginia regardless of potential changes from any of the major trends highlighted, but that the trends should be monitored to identify locations or Draft Plan elements that may be impacted by these types of changes.



# What Did We Learn?

The impact of the 358 projects included in the Draft Plan was analyzed for each Corridor Segment. The overall performance rating for each Corridor Segment is shown in the table to the right. These performance ratings combine the 15 performance measures detailed on page 3, summed for each of the Corridor Segments. These scores quantify the improvement across these measures caused by the Draft Plan, relative to each other. Therefore, the Corridor Segment with the highest rating will see the greatest improvement for the most travelers.

## Findings

The major findings from this analysis include:

- Northern Virginia faces unprecedented levels of travel demand, delay, and transit crowding in 2040.
- No single project, program, or policy will address all of the region's transportation needs.
- Projected regional revenues through 2040 would only fund less than a quarter of the total estimated cost of the 358 candidate regional projects in the Draft Plan.
- Emerging trends in technology and travel preferences may improve travel conditions in 2040.
- Segments with the highest performance ratings are generally those that include a combination of acute travel issues, high volumes, and major candidate regional projects. Segments with the lowest performance ratings generally have less acute travel conditions and/or serve fewer travelers.

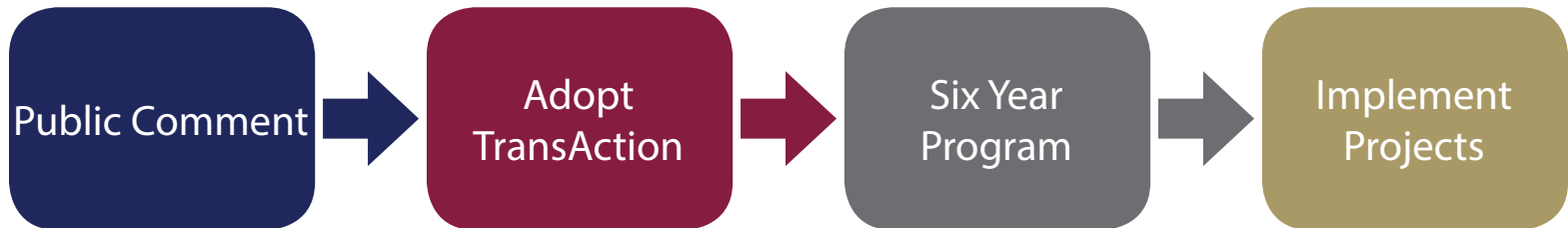


Segment	Description	Performance Rating
8-3	I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River	65.8
7-3	I-495 — I-95 to Woodrow Wilson Bridge	59.2
6-2	I-66/US 29/US 50/Orange Silver Line — Rt. 28 to I-495	58.1
1-4	Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1	54.7
8-2	I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495	54.6
6-3	I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River	49.5
8-1	I-95/US 1/VRE Fredericksburg — Stafford County Line to Fairfax County Line	48.5
10-1	Braddock Road/VRE Manassas — Rt. 28 to I-495	45.4
2-1	Loudoun County Parkway/Belmont Ridge Road — Rt. 7 to US 50	43.9
11-1	US 50 — Fauquier County Line to City of Fairfax	42.3
3-1	Rt. 28 — Rt. 7 to I-66	40.7
6-1	I-66/US 29/VRE Manassas — Prince William County Line to Rt. 28	40.5
1-3	Rt. 7/Dulles Toll Road/Silver Line — Rt. 28 to Tysons	39.9
7-1	I-495 — American Legion Bridge to I-66	39.6
10-2	Columbia Pike/Braddock Road — I-495 to Pentagon	35.8
1-2	Rt. 7/Dulles Greenway — Town of Leesburg to Rt. 28	34.5
4-1	Prince William Parkway — I-66 to I-95	34.2
7-2	I-495 — I-66 to I-395	33.0
5-2	Fairfax County Parkway — US 50 to Rolling Road	31.0
5-1	Fairfax County Parkway — Rt. 7 to US 50	27.0
5-3	Fairfax County Parkway — Rolling Road to US 1	26.4
3-2	Rt. 28 — I-66 to Fauquier County Line	24.9
2-3	Rt. 234 — I-66 to I-95	21.0
1-1	Rt. 7/Rt. 9 — West Virginia state line to Town of Leesburg	15.8
9-2	US 15 — Rt. 7 to I-66	13.6
9-1	US 15 — Potomac River to Rt. 7	11.8
2-2	Bi-County Parkway — US 50 to I-66	7.7
9-3	US 15 — US 50 to US 29	5.8

A larger map of the corridor segments is included on Page 5.

# What Happens Next?

TransAction is not complete yet. We need your comments to finish it. Once adopted as Northern Virginia's official transportation plan, the NVTa can use TransAction to develop a Six Year Program, providing money to implement transportation improvement projects across the region.



**At key decision points, the NVTa will:**

## Use TransAction to Develop the Six Year Program.

- > Pursue targeted, multimodal, regionally-coherent strategies to address the region's transportation needs that are consistent with the region's priorities and the varying geographies of the region.
- > Work with member jurisdictions and regional stakeholders to work across jurisdictional boundaries, wherever possible, to address the region's transportation needs.
- > Work with member jurisdictions and regional stakeholders to consider the potential for near term approaches such as:
  - New, improved, and expanded transit services;
  - New regional TDM strategies that complement existing TDM programs;
  - New and existing technology systems; and
  - Completion of ongoing construction of roadway and multimodal projects.
- > Emphasize the importance of maximizing use of additional funding sources as a factor during the development of the FY2018-23 Six Year Program.

## Monitor Emerging Trends.

Monitor emerging trends and report significant changes on an annual basis. Based on these trends, the NVTa will:

- > Consider additional analysis to identify potential subsets of projects that complement emerging trends
- > Explore proactive policy guidance associated with beneficial elements of emerging trends, such as:
  - Public education regarding potential new transportation technologies
  - Integration of human-driven and Connected/Autonomous Vehicles in different geographies across the region
  - Development of complementary transit and shared mobility services



# How Can I Get Involved?

SHIRLINGTON STATION

## Public Comment Period

The NVTa is seeking public input on the TransAction Draft Plan following its release on Friday, June 9, 2017 through the public comment period, which will continue through midnight Sunday, July 23, 2017.

## Public Hearing Thursday, July 13, 2017

Open House: 5:30 PM  
Public Hearing: 7:00 PM

NVTa  
3040 Williams Drive, Suite 200  
Fairfax, Virginia, 22031

FREE Parking Available

Nearest Metro Station:  
Dunn Loring Merrifield  
(Orange Line)

FREE Shuttle Service from Dunn  
Loring Metro will be available  
at 5:10 PM and up to 1/2 hour  
following last speaker

## How to Submit Comments

If you are unable to attend a public meeting, please see instructions below for providing your public comment.

- For more information on the TransAction Draft Plan visit: [NVTATransAction.org](http://NVTATransAction.org)
- Send your comments by July 23, 2017 to [TransActionUpdate@NVTATransAction.org](mailto:TransActionUpdate@NVTATransAction.org) or NVTa, 3040 Williams Drive, Suite 200, Fairfax, VA 22031

## Town Halls

Local jurisdictions will host future Town Hall meetings. Please refer to [NVTATransAction.org](http://NVTATransAction.org) for the time and location of your local meeting.

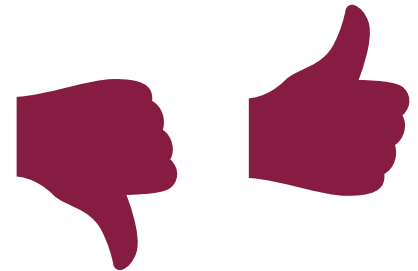
## How Can You Help?

NVTa is looking for your help to answer these questions:

- Do you have any comments on the project list?
- Did we miss anything in the analysis of the Draft Plan?
- What do you like about the Draft Plan?
- What don't you like about the Draft Plan?

Visit the TransAction Plan at:  
[NVTATransAction.org/](http://NVTATransAction.org/)

Review the TransAction Plan  
Project List at:  
[NVTATransAction.org/resources/](http://NVTATransAction.org/resources/)





## **NORTHERN VIRGINIA TRANSPORTATION AUTHORITY**

### **TransAction Plan Project List: Draft for Public Comment**

Project list is available upon request and at the NVTa website:

<http://www.thenovaauthority.org/meetings/authority-meetings/>

# TransAction Plan Project List *Draft for Public Comment*

*Spring/Summer 2017*

This project list includes a brief description of the 358 candidate regional projects included in TransAction. The projects are listed by Corridor Segment. Larger projects are listed under each Corridor Segment in which they are located, and may appear multiple times in this project list.



## Project List: Index by Corridor Segment

Segment	Description	Page
1-1	Rt. 7/Rt. 9 – West Virginia state line to Town of Leesburg	3
1-2	Rt. 7/Dulles Greenway – Town of Leesburg to Rt. 28	5
1-3	Rt. 7/Dulles Toll Road/Silver Line – Rt. 28 to Tysons	12
1-4	Rt. 7/Dulles Toll Road/Silver Line – Tysons to US 1	18
2-1	Loudoun County Parkway/Belmont Ridge Road – Rt. 7 to US 50	36
2-2	Bi-County Parkway – US 50 to I-66	42
2-3	Rt. 234 – I-66 to I-95	45
3-1	Rt. 28 – Rt. 7 to I-66	51
3-2	Rt. 28 – I-66 to Fauquier County Line	56
4-1	Prince William Parkway – I-66 to I-95	60
5-1	Fairfax County Parkway – Rt. 7 to US 50	66
5-2	Fairfax County Parkway – US 50 to Rolling Road	70
5-3	Fairfax County Parkway – Rolling Road to US 1	74
6-1	I-66/US 29/VRE Manassas – Prince William County Line to Rt. 28	78
6-2	I-66/US 29/US 50/Orange Silver Line – Rt. 28 to I-495	84
6-3	I-66/US 29/US 50/Orange Silver Line – I-495 to Potomac River	90
7-1	I-495 – American Legion Bridge to I-66	100
7-2	I-495 – I-66 to I-395	105
7-3	I-495 – I-95 to Woodrow Wilson Bridge	110
8-1	I-95/US 1/VRE Fredericksburg – Stafford County Line to Fairfax County Line	121
8-2	I-95/US 1/VRE Fredericksburg – Prince William County Line to I-495	127
8-3	I-395/US 1/VRE Fredericksburg/Blue Yellow Line – I-495 to Potomac River	137
9-1	US 15 – Potomac River to Rt. 7	153
9-2	US 15 – Rt. 7 to I-66	155
9-3	US 15 – US 50 to US 29	158
10-1	Braddock Road/VRE Manassas – Rt. 28 to I-495	160
10-2	Columbia Pike/Braddock Road – I-495 to Pentagon	172
11-1	US 50 – Fauquier County Line to City of Fairfax	185

Review the TransAction Plan at:  
[NVTATransAction.org/](http://NVTATransAction.org/)

## TransAction Corridors



★ MWCOC Activity Center

# - # Corridor - Segment

### NVTA Regional Travel Corridors

Corridor 1: Route 7/Dulles Toll Road/Silver Line

Corridor 2: Loudoun County Parkway/Bi-County Parkway/Route 234

Corridor 3: Route 28

Corridor 4: Prince William Parkway

Corridor 5: Fairfax County Parkway

Corridor 6: I-66/US 29/US 50/Orange-Silver Line/VRE Manassas

Corridor 7: I-495

Corridor 8: I-95/I-395/US 1/VRE Fredericksburg/Blue-Yellow Line

Corridor 9: US 15

Corridor 10: Columbia Pike/Braddock Road/VRE Manassas

Corridor 11: US 50

**Segment 1-1: Rt. 7/Rt. 9 — West Virginia state line to Town of Leesburg**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	11	Transit	West Loudoun "Gateway" Park-and-ride	Construct three new park-and-ride lots in West Loudoun (Hillsboro, Round Hill, and Lucketts)
2	14	Transit	Transit Connections to Silver Line Phase II Stations	Expand bus service and connections to Silver Line Phase II stations. Provide feeder bus service between Metrorail and P&R lots. Purchase buses for new service.
3	109	Transit	Loudoun County Phase III Bus Service	Implement Phase III bus service in Loudoun County, including local, express, intercounty, commuter, and demand-response services
4	164	Roadway	Construct Purcellville VA 7 North Collector Rd	Construct Purcellville VA 7 North Collector Rd between the eastern Purcellville JLMA boundary (east of VA 287/Berlin Turnpike) and Hillsboro Rd (VA 690): Construct a 4-lane roadway.
5	167	Roadway	Widen VA 7, W Market St to Charles Town Pike	Widen VA 7 (Harry Byrd Highway) from 4 to 8 lanes between West Market St (VA 7 business) and Charles Town Pike (VA 9). Construct grade-separated interchange at White Gate Place and remove all remaining at-grade access.
6	172	Roadway	Widen VA 7 Bypass (Purcellville)	Widen VA 7 Bypass (Harry Byrd Highway) from 4 to 6 lanes between VA 9 (Charles Town Pike) and VA 7 Business (West Loudoun St). Construct grade-separated interchanges at Hillsboro Rd (VA 690) and west of Round Hill at VA 7 business (West Loudoun St).
7	302	Roadway	Leesburg Bypass	Widen VA 7 to 6 lanes (limited access) from US 15 King St to West Market Street interchange.
8	304	Roadway	VA 7 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 7 from the Fairfax County Line to the Clarke County Line, as directed by the Board.
9	305	Roadway	VA 7 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 7 Business from VA 9 at Clark's Gap to VA 7 west of Round Hill, as directed by the Board.



**Segment 1-1: Rt. 7/Rt. 9 — West Virginia state line to Town of Leesburg**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
10	306	Roadway	VA 9 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 9 from the West Virginia State Line to VA 7 (Harry Byrd Highway), as directed by the Board.
11	308	Roadway	VA 287 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 287 from VA 7 Business to the Maryland State Line, as directed by the Board.
12	313	Transit	Transit buses purchase	Purchase of buses in support of Loudoun County's transit services.
13	323	Roadway	VA Route 9 Traffic Calming	Construct safety improvements, traffic calming, and lane widening on Route 9 (Charles Town Pike), including the Town of Hillsboro. Project may include roundabouts and other pedestrian safety improvements
14	345	Roadway	Route 7 Reversible Lanes	Construct reversible lanes on VA-7 Leesburg Bypass between the Greenway Toll Road and VA-9

**Segment 1-2: Rt. 7/Dulles Greenway — Town of Leesburg to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	10	Transit	East Loudon Park-and-ride	Construct new park-and-ride lots at VA 7 at Dulles Town Center and VA 7 at VA 659
2	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
3	14	Transit	Transit Connections to Silver Line Phase II Stations	Expand bus service and connections to Silver Line Phase II stations. Provide feeder bus service between Metrorail and P&R lots. Purchase buses for new service.
4	16	Transit	Leesburg North Park-and-Ride	Construct Leesburg North Park-and-Ride Lot with 300 spaces at Crosstrail Blvd
5	17	Transit	One Loudoun Park-and-Ride	Construct 200 space park-and-ride lot at One Loudoun near the corner of VA 7 and Loudoun County Parkway
6	20	Roadway	Davis Drive Extension & Dulles Toll Road - Rock Hill Overpass	Extend Davis Dr (VA 868) from Glenn Drive (VA 864) to Fairfax County line at the future bridge over VA Route 267. Realign Rock Hill Rd with Davis Drive. Construct a 4-lane roadway over the Dulles Toll Road from Sunrise Valley Drive on the south, to Davis Drive extension in Loudoun County on the north side. The project would include pedestrian and bicycle facilities.
7	24	Roadway	Outer Potomac River Crossing	Construct crossing of Potomac River between Route 28 in Virginia to I-270 in Maryland
8	27	Roadway	VA 28 Widening, I-66 to Loudoun	Widen VA 28 to 10 lanes between I-66 and Loudoun County (8 GP + 2 HOV)
9	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
10	33	Bike/Ped	VA 28 Trail	Construct a shared used path on both sides of VA 28 from Prince William County line to Dulles Toll Road
11	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station

**Segment 1-2: Rt. 7/Dulles Greenway — Town of Leesburg to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
13	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
14	93	Roadway	Interchange at US 15 and Battlefield Pkwy	Construct grade-separated interchange at US 15 (Leesburg Bypass) and Battlefield Parkway
15	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.
16	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
17	109	Transit	Loudoun County Phase III Bus Service	Implement Phase III bus service in Loudoun County, including local, express, intercounty, commuter, and demand-response services
18	120	Roadway	Waxpool Rd / Loudoun County Pkwy Intersection Improvements	Improve intersection at Waxpool Rd / Loudoun County Pkwy to include three westbound left-turn lanes on Waxpool Rd and a new free-flow right turn lane on Loudoun County Pkwy
19	121	Roadway	Westwind Drive Extension	Construct Westwind Dr / Ladbrook Dr (VA 645) to be 4 lanes across Broad Run between Loudoun County Pkwy (VA 607) and Old Ox Rd (VA 606). Construct a new grade-separated interchange at Old Ox Rd (VA 606).
20	128	Roadway	Widen Route 15, Harmony Church Rd to Mason Lane	Widen Route 15 to four lanes from Harmony Church Rd to Mason Lane

**Segment 1-2: Rt. 7/Dulles Greenway — Town of Leesburg to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
21	129	Roadway	VA 7 Widening, Battlefield Pkwy to Leesburg ECL	Widen VA 7 from 6 to 8 lanes between Battlefield Pkwy and Leesburg ECL
22	130	Roadway	Route 15 Bypass / Edwards Ferry Road Interchange	Construct a grade-separated interchange at the Route 15 Leesburg Bypass and Edwards Ferry Rd in Leesburg. Includes grade separated interchange at For Evans Rd intersection
23	144	Roadway	Lockridge Rd Widening	Widen Lockridge Rd (VA 789) to 4 lanes from Old Ox Rd (VA 606) to Prentice Dr (VA 1071). Provides access for VA 606 Metrorail Station. Extend Lockridge Rd (VA 789) from Prentice Dr (VA 1071) to Waxpool Rd (VA 640) - construct 4 lanes.
24	145	Roadway	Sterling Blvd Widening	Widen Sterling Blvd (VA 846) from Sully Road (VA 28) to Davis Drive (VA 868) from 4 to 6 lanes.
25	146	Roadway	Sterling Blvd Extension	Extend Sterling Blvd (VA 846) from Randolph Drive (VA 1072) to Pacific Blvd (VA 1036) - construct 4 lanes.
26	147	Roadway	Pacific Blvd Extension	Extend Pacific Blvd (VA 28 West Collector Rd) from Old Ox Rd (VA 606) to Innovation Ave (VA 209): Widen/construct 6-lane roadway. Potential modification to existing VA 28/Innovation Ave interchange.
27	148	Roadway	Russell Branch Parkway Widening	Widen Russell Branch Pkwy (VA 7 South Collector Rd) between Pacific Blvd (VA 1036) and Claiborne Pkwy (VA 901): Widen/construct a 6-lane roadway.
28	149	Roadway	Prentice Drive Extension	Extend Prentice Drive west from Lockridge Road (VA 789) to Shellhorn Road (VA 643) - construct 4 lanes.
29	150	Roadway	Prentice Dr Extension to Greenway Transit	Construct Prentice Dr extension (new connection) to Greenway transit (Phase II Metrorail station)
30	151	Roadway	Widen Smith Switch Road	Widen Smith Switch Rd (VA 1950) from 2 to 4 lanes between Waxpool Road (VA 625) and Gloucester Pkwy (VA 2150)
31	153	Roadway	Widen/Complete Riverside Parkway	Widen and complete Riverside Pkwy (VA 2401) from 4 to 6 lanes between Loudoun County Pkwy (VA 607) and Belmont Ridge Rd (VA 659).



**Segment 1-2: Rt. 7/Dulles Greenway — Town of Leesburg to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
32	154	Roadway	Widen VA 28, Fairfax County line to VA 606	Widen VA 28 (Sully Rd) from 6 to 10 lanes between Fairfax County line and Old Ox Rd (VA 606). Study of alternative uses (bus lanes, HOV) to be considered.
33	155	Roadway	Construct Airport Area Connector	Construct Airport Area Connector between Battlefield Pkwy and Crosstail Blvd (VA 653) just east of VA 267: Construct 4 lanes.
34	157	Roadway	Widen/Extend Battlefield Parkway	Widen Battlefield Pkwy to six lanes from Edwards Ferry Rd to US 15 (South King Street opposite Meade Drive).
35	158	Roadway	Widen VA 28, VA 7 to Old Ox Rd	Widen VA 28 (Sully Rd) from 6 to 8 lanes between Old Ox Rd (VA 606) and VA 7 (Harry Byrd Highway). Study of alternative uses (bus lanes, HOV) to be considered.
36	161	Roadway	Construct Greenway Loop Road (Barrister St)	Construct Greenway Loop Rd (Barrister St) between State Street/Landmark Court and Prentice Dr (VA 1071/VA 789 Extended): Construct a 4-lane roadway, including a bridge over VA 267.
37	162	Roadway	Widen VA 7, Leesburg Bypass to Atlantic Blvd (Harry Byrd Highway/East Market Street)	Widen VA 7 (Harry Byrd Highway) to 8 lanes between US 15 (Leesburg Bypass) and Atlantic Blvd (VA 1902). Study of alternative uses (bus lanes, HOV) to be considered for segment between VA 28 and Leesburg Bypass.
38	163	Roadway	Construct Moorefield Blvd	Construct Moorefield Blvd between Mooreview Pkwy (VA 772) and Loudoun County Pkwy (VA 607): Construct 3 lanes between Beth St and Centergate Dr, 4 lanes between Mooreview Pkwy and Beth St, and between Centergate Dr and Loudoun County Pkwy.
39	166	Roadway	Widen Innovation Avenue	Widen Innovation Avenue (VA 209) between VA 28 (Sully Rd) and Fairfax County line from 4 to 6 lanes. Road to be realigned along northern boundary of Dulles World Center site. Includes connection to Rock Hill Rd (VA 605). Potential future modification to existing Route 28/Innovation interchange.

**Segment 1-2: Rt. 7/Dulles Greenway — Town of Leesburg to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
40	167	Roadway	Widen VA 7, W Market St to Charles Town Pike	Widen VA 7 (Harry Byrd Highway) from 4 to 8 lanes between West Market St (VA 7 business) and Charles Town Pike (VA 9). Construct grade-separated interchange at White Gate Place and remove all remaining at-grade access.
41	171	Roadway	Widen Old Ox Rd, VA 28 to Fairfax County line	Widen Old Ox Rd (VA 606) to 6 lanes between VA 28 (Sully Rd) and Fairfax County line / Herndon town limits.
42	173	Roadway	Widen Old Ox Rd, VA 28 to Dulles Greenway	Widen Old Ox Rd (VA 606) to 6 lanes between VA 28 (Sully Rd) and VA 267 (Dulles Greenway).
43	174	Roadway	Widen Loudoun County Pkwy, GW Blvd to Waxpool Rd	Widen Loudoun County Pkwy (VA 607) to 6 lanes from George Washington Blvd (VA 1050) to Waxpool Rd (VA 625).
44	175	Roadway	Widen Loudoun County Pkwy, Waxpool Rd to VA 267	Widen Loudoun County Pkwy (VA 607) to 6 lanes from Waxpool Rd (VA 625) to Dulles Greenway (VA 267)
45	176	Roadway	Widen Loudoun County Pkwy, VA 267 to Old Ox Rd	Widen Loudoun County Pkwy from 4 to 6 lanes between VA 267 (Dulles Greenway) and Old Ox Rd (VA 606), near existing Arcola Rd
46	179	Roadway	Widen Evergreen Mills Rd from VA 621 Relocated to Battlefield Pkwy	Widen Evergreen Mills Rd (VA 621) from 2 to 4 lanes between Shreveport Dr (VA 621 Relocated) and Battlefield Pkwy.
47	180	Roadway	Widen Evergreen Mills Rd from Battlefield Pkwy to US 15 (South King Street)	Widen Evergreen Mills Rd (VA 621) from 2 to 4 lanes between Battlefield Pkwy and US 15 (South King St).
48	181	Roadway	Widen VA 625 (Waxpool Rd / Farmwell Rd)	Widen Waxpool Rd (VA 625) to 6 lanes between Church Rd and Ashburn Rd (VA 641).
49	182	Roadway	Widen Sycolin Rd	Widen Sycolin Rd (VA 625) to 4 lanes between Belmont Ridge Rd (VA 659) and Battlefield Pkwy. Realign Sycolin Rd to accommodate expansion of Leesburg Airport**.
50	183	Roadway	Extend Shellhorn Rd	Extend Shellhorn Rd (VA 643) between Loudoun County Pkwy (VA 607) and Randolph Drive (VA 1072) - 4 lanes.

**Segment 1-2: Rt. 7/Dulles Greenway — Town of Leesburg to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
51	184	Roadway	Crosstrail Blvd (VA 653) (limits VA 7 to VA 267)	Construct missing segments and widen Crosstrail Blvd (VA 653) to six lanes between East Market St (VA 7) and the Dulles Greenway (VA 267), and extend Crosstrail Blvd from the Greenway to Evergreen Mills Rd.
52	185	Roadway	Widen Belmont Ridge Rd from VA 2401 to VA 7	Widen Belmont Ridge Rd (VA 659) from 4 lanes to 6 lanes between Riverside Pkwy (VA 2401) and VA 7 (Harry Byrd Highway).
53	188	Roadway	Widen Relocation Drive	Widen Relocation Dr (VA 775) from 2 to 4 lanes between Old Ox Rd (VA 606) and Pacific Blvd (VA 1036).
54	190	Roadway	Widen US 15	Widen US 15 to 4 lanes from Battlefield Pkwy interchange to VA 740 (Tutt Lane)
55	191	Roadway	Improve interchange, VA 28 at Old Ox Rd	Improve grade-separated intersection, VA 28 at Old Ox Rd
56	192	Roadway	Construct interchange, VA 7 at Battlefield Pkwy	Construct grade-separated interchange, VA 7 at Battlefield Pkwy
57	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
58	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
59	212	Roadway	Widen Dulles Airport Access Road	Widen Dulles Airport Access Road from Dulles Airport to VA 123
60	233	Roadway	Construct VA 606 ramp	Construct VA 606 ramp
61	234	Roadway	Construct eastern segment of Russell Branch Parkway	Construct four lanes of eastern segment of Russell Branch Parkway from Belmont Ridge Road to Tournament Parkway.
62	289	Transit	Loudoun Metrorail Station Pedestrian Improvements	Construct sidewalks, crosswalks, shared-use trails, and intersection improvements to improve pedestrian access to Silver Line Metro Stations (Route 606 and 772) in Loudoun County
63	302	Roadway	Leesburg Bypass	Widen VA 7 to 6 lanes (limited access) from US 15 King St to West Market Street interchange.
64	303	Roadway	Leesburg Bypass	Widen VA 7/US 15 to 6 lanes (limited access) from the East Market Street interchange to the US 15 interchange.

**Segment 1-2: Rt. 7/Dulles Greenway — Town of Leesburg to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
65	304	Roadway	VA 7 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 7 from the Fairfax County Line to the Clarke County Line, as directed by the Board.
66	307	Roadway	US 15 "hot spot" and safety improvements	"Hot Spot" and safety improvements on US 15 from the Prince William County Line to the Maryland State Line, as directed by the Board.
67	309	Roadway	Extend Russell Branch Parkway (Leesburg)	Extend Russell Branch Parkway (Leesburg) from Cochran Mill Road (VA 653) to Trailview Blvd: Construct a 4-lane roadway.
68	313	Transit	Transit buses purchase	Purchase of buses in support of Loudoun County's transit services.
69	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
70	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
71	345	Roadway	Route 7 Reversible Lanes	Construct reversible lanes on VA-7 Leesburg Bypass between the Greenway Toll Road and VA-9
72	346	Roadway	Dulles Greenway Merge Lanes	Construct additional capacity on Dulles Greenway at merges, particularly at the connections with the Dulles Toll Road, to allows for better operation and weave movements.
73	347	Roadway	VA-28 Reversible HOV Lanes	Implement reversible HOV lanes on VA-28 between I-66 and the Dulles Toll Road during AM and PM peak periods

**Segment 1-3: Rt. 7/Dulles Toll Road/Silver Line — Rt. 28 to Tysons**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	1	Transit	VA 7 Transit: Tysons - Mark Center	Construct Bus Rapid Transit line along VA 7 between Tysons and Mark Center with a connection to East Falls Church Metrorail Station
2	5	Roadway	Interchange at VA 267 and Greensboro Dr	Construct partial grade-separated interchange at VA 267 and Greensboro Dr / Tyco Dr
3	6	Roadway	Interchange at VA 267 and Boone Blvd	Construct partial grade-separated interchange at VA 267 and Boone Blvd
4	8	Roadway	Soapstone Dr Extension	Extend Soapstone Dr over Dulles Toll Road
5	10	Transit	East Loudon Park-and-ride	Construct new park-and-ride lots at VA 7 at Dulles Town Center and VA 7 at VA 659
6	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
7	13	Roadway	Herndon Metrorail Station Pedestrian/Bike Improvements	Implement roadway, bicycle, and pedestrian improvements to improve access to the Herndon Metrorail Station, including: i. Construct an extension to the Folly Lick Trail from Van Buren St to future Herndon Metrorail station; ii. Continue improvements of the W&OD Trail on select sections within Herndon town limits; iii. Construct extension of Sugarland Run Trail from existing terminus to pedestrian access pavilion at future Herndon Metrorail station; iv. Construct missing regional links in Folly Lick Region Trail between Wiehle Ave and connection with W&OD Trail; v. Reconstruct Herndon Parkway with 'Complete Street' improvements to include 1-way cycle tracks, wide sidewalks and bus stop enhancements (between Van Buren Street and W&OD Regional Trail) to connect with Herndon Metrorail Station; vi. Reconstruct Van Buren Street between Old Spring St and town limits with 'Complete Streets' improvements to expand and enhance on and off-street



**Segment 1-3: Rt. 7/Dulles Toll Road/Silver Line — Rt. 28 to Tysons**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
8	14	Transit	Transit Connections to Silver Line Phase II Stations	Expand bus service and connections to Silver Line Phase II stations. Provide feeder bus service between Metrorail and P&R lots. Purchase buses for new service.
9	18	Roadway	Dulles Toll Road - Town Center Parkway Underpass	Construct 4-lane divided roadway under the Dulles Toll Road from Sunrise Valley Drive to Sunset Hills Road
10	20	Roadway	Davis Drive Extension & Dulles Toll Road - Rock Hill Overpass	Extend Davis Dr (VA 868) from Glenn Drive (VA 864) to Fairfax County line at the future bridge over VA Route 267. Realign Rock Hill Rd with Davis Drive. Construct a 4-lane roadway over the Dulles Toll Road from Sunrise Valley Drive on the south, to Davis Drive extension in Loudoun County on the north side. The project would include pedestrian and bicycle facilities.
11	21	Roadway	Hunter Mill Road/Sunset Hills Road Improvements	Widen Hunter Mill Road to four lanes between Crowell Road and VA 267 Dulles Toll Road. Widen Sunset Hills Road to four lanes between Wiehle Ave and Hunter Mill Road, realigned with Crowell Road.
12	23	Bike/Ped	Herndon Bike-Sharing Services	Introduce and expand bike-sharing services in Herndon
13	24	Roadway	Outer Potomac River Crossing	Construct crossing of Potomac River between Route 28 in Virginia to I-270 in Maryland
14	27	Roadway	VA 28 Widening, I-66 to Loudoun	Widen VA 28 to 10 lanes between I-66 and Loudoun County (8 GP + 2 HOV)
15	29	Roadway	Centreville Rd Widening	Widen VA 657 (Centreville Road) to six lanes between Herndon Pkwy and Walney Rd
16	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
17	33	Bike/Ped	VA 28 Trail	Construct a shared used path on both sides of VA 28 from Prince William County line to Dulles Toll Road
18	37	Roadway	Fairfax County Pkwy HOV Widening (Dulles Toll Rd)	Widen Fairfax County Pkwy by adding HOV lanes from Dulles Toll Rd to VA 7

**Segment 1-3: Rt. 7/Dulles Toll Road/Silver Line — Rt. 28 to Tysons**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
19	42	Transit	Fairfax County Pkwy Priority Bus Service	Implement priority bus service on Fairfax County Parkway between Herndon/Monroe Metrorail station and Ft. Belvoir
20	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
21	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
22	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
23	97	Transit	Columbia Pike Priority Transit Network (PrTN)	Provide priority transit service from Skyline to Crystal City via Pentagon City, including limited-stop bus service, improved headways, and 24 transit stations.
24	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.
25	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}

**Segment 1-3: Rt. 7/Dulles Toll Road/Silver Line — Rt. 28 to Tysons**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
26	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
27	109	Transit	Loudoun County Phase III Bus Service	Implement Phase III bus service in Loudoun County, including local, express, intercounty, commuter, and demand-response services
28	123	Roadway	Fairfax County Pkwy / Sunrise Valley Dr Interchange	Construct a grade-separated interchange at Fairfax County Parkway and Sunrise Valley Dr
29	152	Roadway	Widen Gloucester Parkway	Widen Gloucester Parkway (VA 2150) from 4 to 6 lanes between VA 28 (Sully Rd) and Loudoun County Pkwy (VA 607).
30	154	Roadway	Widen VA 28, Fairfax County line to VA 606	Widen VA 28 (Sully Rd) from 6 to 10 lanes between Fairfax County line and Old Ox Rd (VA 606). Study of alternative uses (bus lanes, HOV) to be considered.
31	158	Roadway	Widen VA 28, VA 7 to Old Ox Rd	Widen VA 28 (Sully Rd) from 6 to 8 lanes between Old Ox Rd (VA 606) and VA 7 (Harry Byrd Highway). Study of alternative uses (bus lanes, HOV) to be considered.
32	162	Roadway	Widen VA 7, Leesburg Bypass to Atlantic Blvd (Harry Byrd Highway/East Market Street)	Widen VA 7 (Harry Byrd Highway) to 8 lanes between US 15 (Leesburg Bypass) and Atlantic Blvd (VA 1902). Study of alternative uses (bus lanes, HOV) to be considered for segment between VA 28 and Leesburg Bypass.
33	166	Roadway	Widen Innovation Avenue	Widen Innovation Avenue (VA 209) between VA 28 (Sully Rd) and Fairfax County line from 4 to 6 lanes. Road to be realigned along northern boundary of Dulles World Center site. Includes connection to Rock Hill Rd (VA 605). Potential future modification to existing Route 28/Innovation interchange.
34	171	Roadway	Widen Old Ox Rd, VA 28 to Fairfax County line	Widen Old Ox Rd (VA 606) to 6 lanes between VA 28 (Sully Rd) and Fairfax County line / Herndon town limits.
35	174	Roadway	Widen Loudoun County Pkwy, GW Blvd to Waxpool Rd	Widen Loudoun County Pkwy (VA 607) to 6 lanes from George Washington Blvd (VA 1050) to Waxpool Rd (VA 625).



**Segment 1-3: Rt. 7/Dulles Toll Road/Silver Line — Rt. 28 to Tysons**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
36	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
37	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
38	212	Roadway	Widen Dulles Airport Access Road	Widen Dulles Airport Access Road from Dulles Airport to VA 123
39	222	Roadway	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes from VA 267 Dulles Toll Road to I-66.
40	225	Roadway	Construct Collector-Distributor Road (EB/WB) that parallels Dulles Toll Rd	Construct Collector-Distributor Road (EB/WB) that parallels Dulles Toll Rd from Wiehle Ave to Spring Hill Road.
41	228	Roadway	Widen Reston Parkway	Widen Reston Parkway from 4 to 6 lanes between South Lakes Dr and Dulles Toll Road VA 267
42	231	Roadway	Boone Boulevard Extension	Construct Boone Boulevard Extension (4 lanes) from VA 123 Chain Bridge Road to Ashgrove Lane.
43	304	Roadway	VA 7 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 7 from the Fairfax County Line to the Clarke County Line, as directed by the Board.
44	313	Transit	Transit buses purchase	Purchase of buses in support of Loudoun County's transit services.
45	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
46	332	Roadway	Construct lanes on Reston Parkway	Construct lanes on Reston Parkway from Sunrise Valley Drive to Baron Cameron Ave.
47	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
48	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
49	347	Roadway	VA-28 Reversible HOV Lanes	Implement reversible HOV lanes on VA-28 between I-66 and the Dulles Toll Road during AM and PM peak periods

**Segment 1-3: Rt. 7/Dulles Toll Road/Silver Line — Rt. 28 to Tysons**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
50	348	Transit	Reston Express Bus	Implement Express bus service between Reston Town Center and Fairfax Center via Reston Parkway and West Ox Rd

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	1	Transit	VA 7 Transit: Tysons - Mark Center	Construct Bus Rapid Transit line along VA 7 between Tysons and Mark Center with a connection to East Falls Church Metrorail Station
2	2	Roadway	VA 7 Widening, VA 123 to I-495	Widen VA 7 from six to eight lanes from VA 123 (Chain Bridge Rd) to I-495 (Capital Beltway)
3	3	Roadway	VA 7 Widening, I-495 to I-66	Widen VA 7 from four to six lanes from I-495 to I-66
4	4	Roadway	VA 7 Widening, Seven Corners to Bailey's Crossroads	Widen VA 7 from four to six lanes between Seven Corners and Bailey's Crossroads
5	5	Roadway	Interchange at VA 267 and Greensboro Dr	Construct partial grade-separated interchange at VA 267 and Greensboro Dr / Tyco Dr
6	6	Roadway	Interchange at VA 267 and Boone Blvd	Construct partial grade-separated interchange at VA 267 and Boone Blvd
7	7	Roadway	King/Quaker/Braddock Intersection Improvements	Construct intersection improvements at King St, Quaker Lane, and Braddock Road - Includes replacing the span wire traffic signals with mast arm signals which will allow for the placement of much needed directional signs, precise placement of signal heads and the installation of vehicle detection. These improvements will mitigate driver confusion and allow for a more efficient conveyance of vehicles and pedestrians through the intersection. Also included in this project are modifications to the slip ramp between King Street and the service road as well as modifying the entrance to the service road at North Quaker Lane.
8	9	Transit	Tysons Circulator	Implement Tysons Circulator System
9	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
10	15	Roadway	VA 123 Widening, VA 7 to Old Courthouse Rd	Widen VA 123 to six lanes from VA 7 to Old Courthouse Rd

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
11	19	Roadway	Seven Corners Ring Road Improvements	Construct ring road and improve interchange at Seven Corners to reduce congestion on Route 7, improve access between Seven Corners / Falls Church / Bailey's Crossroads, and facilitate redevelopment of the area. Improve safety, navigation of vehicles and cyclists/pedestrians in and throughout the area.
12	22	Bike/Ped	Bike Lanes Route 7 - Alexandria to Seven Corners	Construct protected bike lanes on both sides of VA 7 between Alexandria and Seven Corner. Connect with City of Falls Church's bicycle network.
13	46	Roadway	US 50 Widening, City of Fairfax to Arlington County	Widen US 50 inside the Beltway from 4 to 6 lanes from City of Fairfax to Arlington County. The project would include intersection improvements, including signalization improvements, and pedestrian and bike facilities
14	49	Transit	US 29 / US 50 Priority Bus	Implement priority bus service along US 29 and US 50 between Fair Oaks and Washington DC.
15	50	Transit	East Falls Church Metrorail Station Second Entrance	Planning, design, and construction of a full second entrance to EFC station, including new bus bays, a western mezzanine, and bicycle and pedestrian connections
16	54	Roadway	Falls Church Multimodal Improvements	Multimodal Improvements in the City's state-recognized revitalization areas (1) West Broad Street, (2) Washington Street Corridor, and (3) East End. These areas are all included in the COG-recognized Falls Church activity center. Improvements will include improved intersection geometry and signalization, improved pedestrian connectivity and accessibility, improved transit stops, and improved bicycle access
17	55	Bike/Ped	US 29 trail	Construct a trail along US 29 from Dixie Hill Rd to EFC Metrorail Station

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
18	58	Transit	East Falls Church Metrorail Station Multimodal Improvements	Construct Multimodal improvements, including new/restructured bus bays at the current station, bicycle and pedestrian connections, improve access and signalization on N Sycamore Street and Washington Blvd., and install Bikeshare stations. Improvements per the EFC Vision Plan
19	59	Transit	Lee Highway bus improvements	Improved local ART bus service on US 29 between Rosslyn and EFC.
20	60	Bike/Ped	Arlington Regional Trail Network	<p>Provide dedicated bike facilities, bikesharing and key sidewalk improvements on north-south corridors in Arlington to connect major east-west corridors with each other. Example corridors includes Carlin Springs Road, Walter Reed Drive/Fillmore Street, Harrison St, Washington Blvd, Rt 110, and others. Network also includes:</p> <ul style="list-style-type: none"> <li>-Trail parallel to Washington Blvd between Arlington Blvd and Columbia Pike</li> <li>-Rehab of Custis Trail to current VDOT shared used path design and construction specifications in Rosslyn</li> <li>-Extension of Custis Trail north of I-66 between Kennebec and Quantico</li> <li>-Long Bridge Park Esplanade extension to Mt Vernon Trail</li> <li>-Arlington Blvd trail</li> <li>-Theodore Roosevelt Bridge connection to Mt Vernon Trail and Marine Corps War Memorial</li> <li>-Dedicated cycling facility along the Route 50 service road (south side), between N. Rhodes St. and N. Meade St.</li> <li>-Expansion of Arlington bicycle commuter routes: Bluemont Junction Trail, Custis</li> </ul>

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
21	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
22	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
23	63	Transit	Route 50 Express Bus	Improve Route 50 - Orange Line bus connections.
24	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.
25	66	Transit	Wilson Bridge High Capacity Transit	Extend high capacity surface transit from Metrorail Yellow Line in Alexandria to the Green Line in Prince George's County. Related to I-495 priority bus service CLRP bus service project. Potential modes include LRT, BRT, or improved bus service on corridor between stations.
26	67	Transit	American Legion Bridge High Capacity Transit	Construct high capacity surface transit (express bus service) from Fairfax County to Montgomery County via the American Legion Bridge and Tysons Corner.
27	69	Roadway	I-495 HOT Lanes	Implement HOT lanes on I-495 between American Legion Bridge and VA-267



**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
28	70	Roadway	I-495 HOV Lanes	Implement HOV lanes on I-495 between I-395 and the Woodrow Wilson Bridge
29	71	Transit	Merrifield-Tysons BRT / LRT	Construct enhanced transit service (BRT/LRT) between Fairfax Hospital in Merrifield to Tysons. Includes 6 lanes (4 GP + 2 Transit) on Gallows Rd.
30	78	Transit	DASH Transit Service Enhancements and Expansion	DASH Transit Service Enhancements: including new cross-town services and funding for additional buses to expand service on existing and new routes, circulators and trolleys within and between activity centers and expand bus storage and maintenance facilities; also includes transit stop improvements (bus shelters, real time information signs, bus stop benches, pads for ADA); upgrade to new and/or upgraded regional fare system including new fare collection technology; Provide transit service connection between Eisenhower Metrorail Station and King Street Metrorail Station; Provide transit service connection between Van Dorn Metrorail Station and the Landmark Mall vicinity; Provide east-west transit service between Braddock Rd Metrorail Station and Old Town / King St. Metrorail Station .
31	79	Transit	West End Transitway	Construct a four-mile segment of the dedicated bus lanes between the Van Dorn Metro station and Arlington County. This project will also provide pedestrian and bike facilities in the corridor

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
32	83	Transit	King Street Metro-Alexandria Union Station Improvements	Implement multimodal improvements at the King Street Metro station including improved access to parking lot and bus facilities, construction of new shelters, construction of additional bus bays, and a planned transit store. Construction of a new pedestrian tunnel between Alexandria Union Station and the King Street Metrorail station to include elevators and elimination of existing at grade crossing. Pedestrian tunnel project also includes improvements to the east platform including lengthening the platform, ADA improvements, a new canopy and a stairway and elevator connection to the pedestrian tunnel. Improvements to the east platform will increase freight, commuter, and passenger rail operations within and through the City of Alexandria and allow for VRE to utilize the east platform for revenue service. Project also include other improvements at Alexandria Union Station.
33	86	Bike/Ped	Alexandria Bike and Ped Trails Construction and Reconstruction	Reconstruct Holmes Run Trail from North Ripley Street to I-395; Construct trails along local streets in the Beauregard Street and Van Dorn Street corridor, this facility will provide a north-south connection to the City's Holmes Run Trail, running east west, and connecting bicycle users to Mark Center corridor; Construct pedestrian and bicycle bridge over Holmes Run at Morgan St; Implement and construct projects in the City's Ped Bike Plan; Construct bicycle improvements along Royal St between Jones Point and Bashford St, include signage, traffic calming



**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
34	89	Transit	US 1 BRT	Construct along US 1 BRT with stations at Beacon Hill, Hybla Valley, Fort Belvoir, Penn Daw, Pohick Rd, Woodlawn, and South County Government and with transit transfer centers at Kingman Rd and Fort Belvoir. Includes US 1 widening between VA 235 and I-495.
35	91	ITS/ICM	I-95/I-395 ICM Program	I-95/I-395 ICM Program: -Multimodal Traveler Information: Integration of roadway, transit, and parking information. -Dynamic Ramp Metering: Upgrade of existing ramp metering system. -Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd) -Parking Management: Expansion of pilot program to additional PNR lots. -Decision Support System: Software system to support corridor management activities across multiple facilities and modes.
36	97	Transit	Columbia Pike Priority Transit Network (PrTN)	Provide priority transit service from Skyline to Crystal City via Pentagon City, including limited-stop bus service, improved headways, and 24 transit stations.
37	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
38	99	Transit	VA 123 Priority Bus Service	Add bus priority service on VA 123 to serve Tysons.
39	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
40	101	Bike/Ped	Columbia Pike Corridor urban bike/ped network	Improve bicycle and pedestrian infrastructure in and around the Columbia Pike corridor, including bikeways, bikesharing, and key sidewalk improvements, to convert SOV trips to, within, and between activity center areas from car to bike/pedestrian. Includes parallel bike routes along 9th St, 11th St, and 12th in the vicinity of Columbia Pike.
41	102	Bike/Ped	Arlington TDM Package	<p>Improve and expand the commuter assistance and other programs provided by Arlington County Commuter Services. Includes new commuter stores and next generation IT services, implementation of transportation system management and communication upgrade throughout the County, and improvements to traveler information via creation or expansion of informational, wayfinding, alert, or real-time signs providing information on multimodal transportation options.</p> <p>Develop a system of coordinated mobility hubs along major corridors to fully integrate transit, bikesharing, carsharing, ridesharing, pedestrians, bicycling, ride hailing and other shared use services. Develop, coordinate, implement, and/or expand shared-ride and ride-hailing services for first mile/last mile connections to transit and mobility hubs as well as to activity centers, parking, and pick-up hotspots. Includes support for autonomous vehicles, casual carpooling, on-demand services</p>

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
42	103	ITS/ICM	Arlington ITS Projects	Implement intelligent transportation systems and adaptive traffic control system on regional corridors within Arlington County, including: - Enhancement of Traffic System and Technology to a Smart Traffic Signal system; - Installation of Intelligent Transportation System (ITS) and corresponding Adaptive Traffic Control System program on US 29 Lee Highway to better manage traffic flow. Includes additional Bluetooth devices, count stations, CCTV cameras, and FLIR detectors and upgraded signals for better-timed connection with I-66; - Reconstruction of traffic signals to meet current standards, including upgrade from span wire to mast arm
43	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}
44	107	Transit	Expansion of Metrobus and Fairfax Connector Bus Services	Increase bus frequency and service during off-peak periods and weekends; add new routes.
45	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
46	110	Transit	South County Feeder Bus Service	Improve service levels on bus routes serving Richmond Highway, Kingstowne, and Springfield

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
47	113	ITS/ICM	Alexandria ITS Projects	Funding for transportation technologies to improve system efficiencies in the City of Alexandria, Real-Time Adaptive Control and Data Management System - Build out and improve Traffic Signal System with fiber-optics; transit signal priority
48	114	Transit	Metrorail Pocket Track Improvements	Construct new OR/SV junction infrastructure and pocket track at East Falls Church or West Falls Church. Improve or add pocket tracks to provide flexibility for short-lining, maintenance and crossovers.
49	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
50	116	Transit	Implement integrated regional rail service / VRE-MARC run-through service	Implement run-through service by integrating intercity rail service with MARC and AMTRAK
51	118	Bike/Ped	East Falls Church Bikeshare Connections	Install up to 24 bike-share stations along Route 29, Route 7, Sycamore St, Roosevelt St, and W&OD Trail in Falls Church.
52	122	Transit	ART Service Restructuring and Expansion	Purchase of buses in support of Arlington Transit (ART) service restructuring and expansion. Includes implementation of priority bus service on Glebe Road between Marymount University and Potomac Yard Metro via Ballston.
53	127	Transit	Blue and Yellow Line Bus Facility Improvements	Expand and improve bus bays, passenger facilities, and bus circulation and access paths at all Yellow and Blue Line stations and transit centers in the I-395/ US-1 corridor
54	132	Transit	Enhanced Bus Service - Falls Church	Enhance bus service along US 29 and VA 7 in the City of Falls Church: including all day service, 15 minute frequency, and bus shelters with real-time information
55	133	Bike/Ped	Enhance regional bike routes (W& OD) - Falls Church	Enhance regional bike routes (W& OD): including separate trails for walking and biking, updated crossings to increase safety, and lighting to keep trail open all year

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
56	193	Transit	Alexandria Bus Network ITS	Install Automatic Vehicle Location (AVL) technology on DASH bus to provide real-time arrival info, computer-aided dispatch, automated passenger counters (APC) and automated garage mapping system.
57	195	Roadway	Arlandria/Del Ray/ Lynhaven/Potomac Yard Roadway, Bike/Ped, Improvements	Traffic improvements for the intersection of Mt Vernon Ave and E/W Glebe Rd, including signalization, accommodation for pedestrians and turn lane channelization. Construct improvements at Mt Vernon/Four Mile Rd intersection, including ped/bike improvements; Construct bike/ped bridge over four mile run between Commonwealth Ave and Eads St; Mt Vernon Ave/Russell Rd intersection safety improvements to accommodate pedestrian and bicyclists, may entail intersection and parking configuration redesign. Construct a pedestrian/bicycle link from the Potomac Yard Trail to connect to the Four Mile Run trail on the south side of Four Mile Run, and to the Mt. Vernon Trail; Oakville Triangle improvement projects

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
58	196	Roadway	West End Alexandria Roadway Improvements	Construct a multimodal bridge from Van Dorn Metro station to Pickett Street; Extend Library Ln North to Connect with Van Dorn St; ellipse at Beauregard and Seminary; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; add protected, permissive left turn lane along NB and SB Van Dorn; Widen Van Dorn St Bridge over Duke St to accommodate pedestrians; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; Construct new roadway along Fairfax County Line to connect Edsall Rd, S Pickett St, Farrington Ave; Intersection improvements along Van Dorn Street at Eisenhower, Edsall, Pickett; Straightening Eisenhower; New High Street Addition and Bridge as part of Alexandria's Landmark Van Dorn Area Plan
59	198	Transit	Vienna Metro Access Improvements	Improve access to Metro and encourage mass transit use by completing all sidewalks within 1/2 mile of Vienna and Tysons Metrorail stations. Also, provide a trolley or circulator bus along Maple Ave (VA 123) to connect with Vienna Metro station and Metro Silver Line in Tysons. A parking garage would be provided along the route. Includes "Walk to Metro" and "Commercial Transit, Metro Access, and Parking" projects.
60	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.



**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
61	202	Transit	Metro Station Improvements within the City of Alexandria	Redesign kiss-and-ride and reconfigure bus loading area to accommodate West End Transitway at the Van Dorn Metrorail Station and existing and future developments within the Eisenhower West Small Area Plan. Improvements to the Eisenhower Ave Metrorail Station to accommodate East Eisenhower development, including renovation of existing bus loop, new pedestrian plaza, new bus shelter canopies, and real-time bus arrival info displays.
62	204	Roadway	Greensboro Drive Extension	Extend Greensboro Drive from Spring Hill Road to Tyco Road
63	205	Roadway	I-495 Overpass Tysons Corner	Construct I-495 overpass at Tysons Corner Center
64	206	Roadway	Cleveland Ramps	Reconstruct VA 267 / VA 123 interchange to provide connections to a new street grid
65	207	Roadway	VA 123 / Lewinsville Rd / Great Falls St Underpass	Construct a grade-separated underpass at the intersection of VA 123 / Lewinsville Rd / Great Falls St
66	208	Roadway	VA 123 / VA 7 Interchange	Reconstruct interchange between Route 7 and Route 123 in Tysons.
67	209	Roadway	VA 123 Modified intersection/displaced left turns	Modify intersections and construct displaced left turns on VA 123 between International Drive to Dulles Toll Road
68	210	Roadway	Widen auxiliary lanes along I-495	Widen auxiliary lanes along various segments of I-495 from north of Hemming Ave Underpass to Georgetown Pike. Reconstruct the I-495 auxiliary lane from VA 7 to I-66
69	211	Roadway	Reconstruct I-495 / VA-267 Interchange	Relocate I-495/VA 267 Interchange Flyover Ramp: Eastbound Dulles Airport Access Highway to northbound general purpose. Provide SB HOT to EB HOV & EB Dulles Toll Road to NB HOT movements. Widen EB Dulles Toll Road ramp to 2 NB lanes Construct I-495/VA 267 Interchange ramp from SB I-495 to WB Dulles Airport Access Highway.

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
70	212	Roadway	Widen Dulles Airport Access Road	Widen Dulles Airport Access Road from Dulles Airport to VA 123
71	219	Roadway	Widen VA 123 Chain Bridge Road, VA 7 to I-495	Widen VA 123 Chain Bridge Road from 6 to 8 lanes from VA 7 Leesburg Pike to I-495.
72	225	Roadway	Construct Collector-Distributor Road (EB/WB) that parallels Dulles Toll Rd	Construct Collector-Distributor Road (EB/WB) that parallels Dulles Toll Rd from Wiehle Ave to Spring Hill Road.
73	227	Roadway	Widen Eisenhower Avenue	Widen Eisenhower Avenue from 4 to 6 lanes from Mill Road to Holland Lane.
74	231	Roadway	Boone Boulevard Extension	Construct Boone Boulevard Extension (4 lanes) from VA 123 Chain Bridge Road to Ashgrove Lane.
75	232	Roadway	Widen Magarity Road	Widen Magarity Road from 2 to 4 lanes from VA 7 to Great Falls Street.
76	290	Transit	Dunn Loring to Ballston priority bus	Through enhancement of Metrobus 2A service, provide frequent service on Lee Highway and Washington Blvd from Dunn Loring Metro in Fairfax County through the City of Falls Church, East Falls Church Metro and Washington Blvd to Ballston Metro.
77	291	Transit	Arlington mobility hubs	Develop a system of coordinated mobility hubs along major corridors to fully integrate transit, bikesharing, carsharing, ridesharing, pedestrians, bicycling, ride hailing and other shared use services;
78	292	Transit	Off-vehicle fare collection	Develop a system of off board fare collections for ART and WMATA buses.
79	294	Bike/Ped	Lee Highway Multimodal Improvements	The project expands the multi-modal transportation capacity and safety in the Lee Highway corridor, providing viable options to move more people without increasing the volume of single-occupant vehicles. Includes addition of bicycle facilities along US 29 corridor and reconstruction of US 29 from North Quincy St to North Kenmore St.



**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
80	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac Mills/Rosslyn/Ballston; Montclair/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
81	299	Transit	VRE Alexandria-DC Rail Capacity Improvements	Construct fourth track LE to VA Construct fourth track RO to AF Alexandria track 1 access/ Slater's Lane crossover Construct Washington Union Station station/access improvements Construct VRE L'Enfant station/access improvements Construct VRE Crystal City station/access improvements
82	300	Transit	VRE Alexandria Station Improvements	Improve multimodal connectivity and accessibility at the Alexandria Union Station - King Street Metro station through construction of a pedestrian tunnel between the two stations; platform expansion and access improvements at VRE station

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
83	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>PH 1: Increase frequencies to 20-min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>
84	318	Transit	Shirlington Bus Station Expansion	Addition of new bus bays at the Shirlington Bus Station
85	326	Transit	Manassas Line Peak Period Service Expansion	<p>Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Purchase additional rolling stock</li> <li>b. Construct/expand VRE equipment storage and maintenance facilities</li> <li>c. Rail Line capacity improvements</li> <li>d. Station/Parking Access improvements</li> <li>e. ITS/TSM improvements.</li> </ul>
86	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
87	333	Transit	East Falls Church Metro to Seven Corners Transit Boulevard	Transit and ped/bike connections along Sycamore and Roosevelt with a bridge overpass connecting to planned redevelopment in Seven Corners (shown in Fairfax County comp plan, page 113)
88	334	Transit	Falls Church Metro Station Access	Multimodal Access Improvements for the East Falls Church and West Falls Church Metro stations including pedestrian access, bicycle access and bike-share stations, and bus access.
89	335	Bike/Ped	Regional Bike Connections - Falls Church	On-street bike facilities to connect the City's bicycle network to the W&OD, Arlington County's network and Fairfax County's network as called for in the City's Bicycle Master Plan
90	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
91	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
92	343	Transit	VRE Express Service - Fredericksburg Line	Implement peak period express service on VRE Fredericksburg Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Spotsylvania, Leeland Rd, Woodbridge, Alexandria, Crystal City, L'Enfant, and Union Station
93	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
94	350	Transit	US 29 BRT	Implement BRT service on US 29 Lee Highway in a dedicated lane where facility is six lanes.
95	352	Transit	ART Service Improvements	Increase ART service on crowded corridors in Arlington County, supported by capacity increases at Heavy Maintenance / Bus Parking facilities

**Segment 1-4: Rt. 7/Dulles Toll Road/Silver Line — Tysons to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
96	354	Roadway	I-495 Express Lanes - Springfield to Wilson Bridge	Extend I-495 Express Lanes from Springfield across Wilson Bridge into Maryland
97	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395
98	356	Transit	MARC / VRE Crossover Service	Implement MARC Crossover service to Alexandria and points south and west and VRE Crossover service to destinations including New Carrollton, College Park, and points north via Union Station during AM and PM peak hours

**Segment 2-1: Loudoun County Parkway/Belmont Ridge Road — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	10	Transit	East Loudon Park-and-ride	Construct new park-and-ride lots at VA 7 at Dulles Town Center and VA 7 at VA 659
2	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
3	14	Transit	Transit Connections to Silver Line Phase II Stations	Expand bus service and connections to Silver Line Phase II stations. Provide feeder bus service between Metrorail and P&R lots. Purchase buses for new service.
4	16	Transit	Leesburg North Park-and-Ride	Construct Leesburg North Park-and-Ride Lot with 300 spaces at Crosstrail Blvd
5	17	Transit	One Loudoun Park-and-Ride	Construct 200 space park-and-ride lot at One Loudoun near the corner of VA 7 and Loudoun County Parkway
6	24	Roadway	Outer Potomac River Crossing	Construct crossing of Potomac River between Route 28 in Virginia to I-270 in Maryland
7	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
8	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
9	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
10	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.
11	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations

**Segment 2-1: Loudoun County Parkway/Belmont Ridge Road — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	109	Transit	Loudoun County Phase III Bus Service	Implement Phase III bus service in Loudoun County, including local, express, intercounty, commuter, and demand-response services
13	119	Roadway	Construct Northstar Blvd from Shreveport Dr to US 50	Construct 4 lane Northstar Blvd facility from Shreveport Dr to US 50
14	120	Roadway	Waxpool Rd / Loudoun County Pkwy Intersection Improvements	Improve intersection at Waxpool Rd / Loudoun County Pkwy to include three westbound left-turn lanes on Waxpool Rd and a new free-flow right turn lane on Loudoun County Pkwy
15	121	Roadway	Westwind Drive Extension	Construct Westwind Dr / Ladbrook Dr (VA 645) to be 4 lanes across Broad Run between Loudoun County Pkwy (VA 607) and Old Ox Rd (VA 606). Construct a new grade-separated interchange at Old Ox Rd (VA 606).
16	129	Roadway	VA 7 Widening, Battlefield Pkwy to Leesburg ECL	Widen VA 7 from 6 to 8 lanes between Battlefield Pkwy and Leesburg ECL
17	131	Transit	US 50 Dulles Park and Ride Lot	Construct/expand US 50 Dulles Park and Ride Lot east of Loudoun County Pkwy. Anticipated capacity is 250 spaces.
18	143	Roadway	Ryan Rd Widening from VA 659 to VA 621	Widen Ryan Rd (VA 772) from 2 to 4 lanes from Northstar Blvd (VA 659) to Evergreen Mills Rd (VA 621).
19	144	Roadway	Lockridge Rd Widening	Widen Lockridge Rd (VA 789) to 4 lanes from Old Ox Rd (VA 606) to Prentice Dr (VA 1071). Provides access for VA 606 Metrorail Station. Extend Lockridge Rd (VA 789) from Prentice Dr (VA 1071) to Waxpool Rd (VA 640) - construct 4 lanes.
20	146	Roadway	Sterling Blvd Extension	Extend Sterling Blvd (VA 846) from Randolph Drive (VA 1072) to Pacific Blvd (VA 1036) - construct 4 lanes.
21	148	Roadway	Russell Branch Parkway Widening	Widen Russell Branch Pkwy (VA 7 South Collector Rd) between Pacific Blvd (VA 1036) and Claiborne Pkwy (VA 901): Widen/construct a 6-lane roadway.
22	149	Roadway	Prentice Drive Extension	Extend Prentice Drive west from Lockridge Road (VA 789) to Shellhorn Road (VA 643) - construct 4 lanes.
23	150	Roadway	Prentice Dr Extension to Greenway Transit	Construct Prentice Dr extension (new connection) to Greenway transit (Phase II Metrorail station)



**Segment 2-1: Loudoun County Parkway/Belmont Ridge Road — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
24	151	Roadway	Widen Smith Switch Road	Widen Smith Switch Rd (VA 1950) from 2 to 4 lanes between Waxpool Road (VA 625) and Gloucester Pkwy (VA 2150)
25	152	Roadway	Widen Gloucester Parkway	Widen Gloucester Parkway (VA 2150) from 4 to 6 lanes between VA 28 (Sully Rd) and Loudoun County Pkwy (VA 607).
26	153	Roadway	Widen/Complete Riverside Parkway	Widen and complete Riverside Pkwy (VA 2401) from 4 to 6 lanes between Loudoun County Pkwy (VA 607) and Belmont Ridge Rd (VA 659).
27	156	Roadway	Construct Arcola Blvd	Construct Arcola Blvd between Loudoun County Pkwy (VA 607) (near intersection of Arcola Rd and Old Ox Rd) and US 50 (John Mosby Highway) - 6 lanes. Construct grade-separated interchanges at Loudoun County Pkwy and US 50.
28	158	Roadway	Widen VA 28, VA 7 to Old Ox Rd	Widen VA 28 (Sully Rd) from 6 to 8 lanes between Old Ox Rd (VA 606) and VA 7 (Harry Byrd Highway). Study of alternative uses (bus lanes, HOV) to be considered.
29	159	Roadway	Widen Dulles West Blvd from VA 606 to VA 659	Widen Dulles West Blvd (formerly Glascock Blvd) from 4 to 6 lanes between Loudoun County Pkwy (VA 606) and Arcola Blvd. Construct a four lane facility between Arcola Blvd and Northstar Blvd (VA 659 relocated).
30	160	Roadway	Extend Dulles West Blvd	Construct Dulles West Blvd (formerly Glascock Blvd) between Northstar Blvd (VA 659 Relocated) and Lenah Loop Rd: Construct a 2-lane roadway.
31	161	Roadway	Construct Greenway Loop Road (Barrister St)	Construct Greenway Loop Rd (Barrister St) between State Street/Landmark Court and Prentice Dr (VA 1071/VA 789 Extended): Construct a 4-lane roadway, including a bridge over VA 267.
32	162	Roadway	Widen VA 7, Leesburg Bypass to Atlantic Blvd (Harry Byrd Highway/East Market Street)	Widen VA 7 (Harry Byrd Highway) to 8 lanes between US 15 (Leesburg Bypass) and Atlantic Blvd (VA 1902). Study of alternative uses (bus lanes, HOV) to be considered for segment between VA 28 and Leesburg Bypass.

**Segment 2-1: Loudoun County Parkway/Belmont Ridge Road — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
33	163	Roadway	Construct Moorefield Blvd	Construct Moorefield Blvd between Mooreview Pkwy (VA 772) and Loudoun County Pkwy (VA 607): Construct 3 lanes between Beth St and Centergate Dr, 4 lanes between Mooreview Pkwy and Beth St, and between Centergate Dr and Loudoun County Pkwy.
34	165	Roadway	Widen US 50, Northstar Blvd to Lenah Loop Rd	Widen US 50 (John Mosby Highway) to 4 lanes between Northstar Blvd (VA 659 relocated) and Lenah Loop Rd. Construct a new interchange at VA 659 Relocated (Northstar Blvd).
35	168	Roadway	Widen Loudoun County Pkwy, Old Ox Rd to US 50	Widen Loudoun County Parkway to 8 lanes between Old Ox Rd (VA 606) and US 50 (John Mosby Highway). Construct grade-separated interchanges at Old Ox Rd and US 50 and explore other grade-separated interchanges. Study alternative uses (bus lanes, HOV) along the corridor.
36	169	Roadway	Widen Loudoun County Pkwy, US 50 to Braddock Rd	Widen Loudoun County Pkwy from 4 to 6 lanes between US 50 (John Mosby Highway) and Braddock Rd (VA 620) and construct grade-separated interchange at US 50.
37	173	Roadway	Widen Old Ox Rd, VA 28 to Dulles Greenway	Widen Old Ox Rd (VA 606) to 6 lanes between VA 28 (Sully Rd) and VA 267 (Dulles Greenway).
38	174	Roadway	Widen Loudoun County Pkwy, GW Blvd to Waxpool Rd	Widen Loudoun County Pkwy (VA 607) to 6 lanes from George Washington Blvd (VA 1050) to Waxpool Rd (VA 625).
39	175	Roadway	Widen Loudoun County Pkwy, Waxpool Rd to VA 267	Widen Loudoun County Pkwy (VA 607) to 6 lanes from Waxpool Rd (VA 625) to Dulles Greenway (VA 267)
40	176	Roadway	Widen Loudoun County Pkwy, VA 267 to Old Ox Rd	Widen Loudoun County Pkwy from 4 to 6 lanes between VA 267 (Dulles Greenway) and Old Ox Rd (VA 606), near existing Arcola Rd
41	178	Roadway	Widen Evergreen Mills Rd, VA 606 to VA 659	Widen Evergreen Mills Rd (VA 621) from 2 to 4 lanes between Loudoun County Pkwy (VA 606) and Northstar Blvd (VA 659).



**Segment 2-1: Loudoun County Parkway/Belmont Ridge Road — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
42	179	Roadway	Widen Evergreen Mills Rd from VA 621 Relocated to Battlefield Pkwy	Widen Evergreen Mills Rd (VA 621) from 2 to 4 lanes between Shreveport Dr (VA 621 Relocated) and Battlefield Pkwy.
43	181	Roadway	Widen VA 625 (Waxpool Rd / Farmwell Rd)	Widen Waxpool Rd (VA 625) to 6 lanes between Church Rd and Ashburn Rd (VA 641).
44	182	Roadway	Widen Sycolin Rd	Widen Sycolin Rd (VA 625) to 4 lanes between Belmont Ridge Rd (VA 659) and Battlefield Pkwy. Realign Sycolin Rd to accommodate expansion of Leesburg Airport**.
45	183	Roadway	Extend Shellhorn Rd	Extend Shellhorn Rd (VA 643) between Loudoun County Pkwy (VA 607) and Randolph Drive (VA 1072) - 4 lanes.
46	184	Roadway	Crosstrail Blvd (VA 653) (limits VA 7 to VA 267)	Construct missing segments and widen Crosstrail Blvd (VA 653) to six lanes between East Market St (VA 7) and the Dulles Greenway (VA 267), and extend Crosstrail Blvd from the Greenway to Evergreen Mills Rd.
47	185	Roadway	Widen Belmont Ridge Rd from VA 2401 to VA 7	Widen Belmont Ridge Rd (VA 659) from 4 lanes to 6 lanes between Riverside Pkwy (VA 2401) and VA 7 (Harry Byrd Highway).
48	186	Roadway	Widen Belmont Ridge Rd from VA 645 to VA 659	Widen Belmont Ridge Rd (VA 659) from 4 to 6 lanes between Croson Ln (VA 645) and Northstar Blvd / VA659 split.
49	187	Roadway	Widen Northstar Blvd from Belmont Ridge Rd to Braddock Rd	Widen/Construct Northstar Blvd (VA 659) to 6 lanes from Belmont Ridge Rd (VA 659) to Braddock Rd (VA 620). Construct grade-separated interchange at US 50. Potential grade-separation at Evergreen Mills Road.
50	189	Roadway	Construct interchange, Loudoun Cty Pkwy at Arcola	Construct grade-separated interchange, Loudoun Cty Pkwy at Arcola Blvd
51	226	Roadway	Construct VA 234 Bypass North, I-66 to US 50	Construct VA 234 Bypass North (Bi-County Parkway) from I-66 to US 50. Close US 29 from Pageland Lane to the bridge over Bull Run and close VA 234 Sudley Road from the southern park boundary to the northern park boundary.
52	234	Roadway	Construct eastern segment of Russell Branch Parkway	Construct four lanes of eastern segment of Russell Branch Parkway from Belmont Ridge Road to Tournament Parkway.

**Segment 2-1: Loudoun County Parkway/Belmont Ridge Road — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
53	289	Transit	Loudoun Metrorail Station Pedestrian Improvements	Construct sidewalks, crosswalks, shared-use trails, and intersection improvements to improve pedestrian access to Silver Line Metro Stations (Route 606 and 772) in Loudoun County
54	304	Roadway	VA 7 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 7 from the Fairfax County Line to the Clarke County Line, as directed by the Board.
55	309	Roadway	Extend Russell Branch Parkway (Leesburg)	Extend Russell Branch Parkway (Leesburg) from Cochran Mill Road (VA 653) to Trailview Blvd: Construct a 4-lane roadway.
56	310	Roadway	US 50 Widening / Interchanges	Widen US 50 (John Mosby Highway) to 6 lanes from Poland Rd to Northstar Blvd. Construct new interchanges at/near VA 2200 (Tall Cedars Parkway), VA Route 2201 (South Riding Blvd), VA 606 (Loudoun County Parkway), VA 606 Extended (Arcola Blvd/West Spine Rd), and VA 659 Relocated (Northstar Blvd). Potential grade-separation (interchange or overpass) at VA 609 (Pleasant Valley Road).
57	311	Roadway	Widen Belmont Ridge Road	Widen Belmont Ridge Road (VA 659) to 4 lanes from Shreveport Drive to Evergreen Mills Road (VA 621).
58	313	Transit	Transit buses purchase	Purchase of buses in support of Loudoun County's transit services.
59	314	Roadway	US 50 Improvements	Improvements along US 50 (John Mosby Highway/Washington Street) from the Fairfax County Line to the Fauquier County Line.
60	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
61	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia

**Segment 2-2: Bi-County Parkway — US 50 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	14	Transit	Transit Connections to Silver Line Phase II Stations	Expand bus service and connections to Silver Line Phase II stations. Provide feeder bus service between Metrorail and P&R lots. Purchase buses for new service.
2	26	ITS/ICM	VA 234 Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on VA 234.
3	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
4	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
5	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
6	119	Roadway	Construct Northstar Blvd from Shreveport Dr to US 50	Construct 4 lane Northstar Blvd facility from Shreveport Dr to US 50
7	131	Transit	US 50 Dulles Park and Ride Lot	Construct/expand US 50 Dulles Park and Ride Lot east of Loudoun County Pkwy. Anticipated capacity is 250 spaces.
8	156	Roadway	Construct Arcola Blvd	Construct Arcola Blvd between Loudoun County Pkwy (VA 607) (near intersection of Arcola Rd and Old Ox Rd) and US 50 (John Mosby Highway) - 6 lanes. Construct grade-separated interchanges at Loudoun County Pkwy and US 50.
9	160	Roadway	Extend Dulles West Blvd	Construct Dulles West Blvd (formerly Glascock Blvd) between Northstar Blvd (VA 659 Relocated) and Lenah Loop Rd: Construct a 2-lane roadway.
10	165	Roadway	Widen US 50, Northstar Blvd to Lenah Loop Rd	Widen US 50 (John Mosby Highway) to 4 lanes between Northstar Blvd (VA 659 relocated) and Lenah Loop Rd. Construct a new interchange at VA 659 Relocated (Northstar Blvd).

**Segment 2-2: Bi-County Parkway — US 50 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
11	177	Roadway	Widen Braddock Rd, Northstar Blvd to Fairfax County line	Widen Braddock Road (VA 620) from 2 to 4 lanes between Northstar Blvd and Fairfax County line.
12	187	Roadway	Widen Northstar Blvd from Belmont Ridge Rd to Braddock Rd	Widen/Construct Northstar Blvd (VA 659) to 6 lanes from Belmont Ridge Rd (VA 659) to Braddock Rd (VA 620). Construct grade-separated interchange at US 50. Potential grade-separation at Evergreen Mills Road.
13	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
14	214	Roadway	Add NB lane to US 29	Add NB lane to US 29 from I-66 to the entrance to Conway Robinson Memorial State Forest.
15	226	Roadway	Construct VA 234 Bypass North, I-66 to US 50	Construct VA 234 Bypass North (Bi-County Parkway) from I-66 to US 50. Close US 29 from Pageland Lane to the bridge over Bull Run and close VA 234 Sudley Road from the southern park boundary to the northern park boundary.
16	235	Roadway	Construct University Boulevard	Construct four lanes from Progress Court to Sudley Manor Drive
17	240	Roadway	Widen Cushing Rd, Balls Ford Rd to I-66	Widen Cushing Rd to four lanes from Balls Ford Rd. to I-66
18	254	Roadway	Construct Manassas Battlefield Bypass	Construct a bypass around Manassas Battlefield National Park between VA 234 and Fairfax County
19	266	Roadway	Complete Rollins Ford Rd, Vint Hill Rd to Wellington Rd	Complete four lane Rollins Ford Rd, Linton Hall Rd to Wellington Rd
20	267	Roadway	Construct Station Rd, University Blvd to Balls Ford Rd	Construct four lane Station Rd, University Blvd to Balls Ford Rd
21	268	Roadway	Widen Sudley Rd, US 15 to US 29	Widen Sudley Rd to four lanes, US 15 James Madison Highway to US 29 Lee Highway
22	277	Roadway	Widen Wellington Blvd, Prince William Pkwy to Godwin Dr	Widen Wellington Road from 2 to 4 lanes between Godwin Dr. and the Prince William Pkwy. and from 2 to 6 lanes between the Prince William Pkwy. and University Blvd.
23	298	Transit	Implement new OmniLink service	Implement new OmniLink routes: Innovation-to-Gainesville/Haymarket; Innovation-to-Manassas; Montclair local

**Segment 2-2: Bi-County Parkway — US 50 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
24	310	Roadway	US 50 Widening / Interchanges	Widen US 50 (John Mosby Highway) to 6 lanes from Poland Rd to Northstar Blvd. Construct new interchanges at/near VA 2200 (Tall Cedars Parkway), VA Route 2201 (South Riding Blvd), VA 606 (Loudoun County Parkway), VA 606 Extended (Arcola Blvd/West Spine Rd), and VA 659 Relocated (Northstar Blvd). Potential grade-separation (interchange or overpass) at VA 609 (Pleasant Valley Road).
25	313	Transit	Transit buses purchase	Purchase of buses in support of Loudoun County's transit services.
26	314	Roadway	US 50 Improvements	Improvements along US 50 (John Mosby Highway/Washington Street) from the Fairfax County Line to the Fauquier County Line.
27	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.



**Segment 2-3: Rt. 234 — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	25	Roadway	VA 28/Prince William Pkwy Interchange	Reconstruct interchange at VA 28 and Prince William Pkwy
2	26	ITS/ICM	VA 234 Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on VA 234.
3	34	Roadway	Godwin Dr Widening	Widen Godwin Dr from four to six lanes between Sudley Rd and VA 28
4	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
5	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
6	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
7	87	Roadway	East Potomac River Crossing	Construct Eastern Potomac Crossing from I-95 to US 301 in Maryland
8	88	Roadway	Widen/Relocate US 1 in Town of Dumfries	Widen US 1 (Fralely Blvd) to six lanes between Brady's Hill Rd and Dumfries Rd (VA 234). Phase I includes widening to 4 lanes along current northbound alignment.

**Segment 2-3: Rt. 234 — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
9	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
10	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
11	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
12	220	Roadway	Construct VA 234 Bypass Interchange at Balls Ford Rd	Project will provide a new grade separated interchange proposed at Rt. 234-Prince William Parkway and relocated Rt. 621-Balls Ford Road. In addition a new 4-lane facility with raised median will be constructed between Devlin Road and Doane Road
13	221	Roadway	Construct VA 234/ Sudley Manor Drive Interchange	Construct VA 234 Prince William Parkway Interchange at VA 1566 Sudley Manor Drive.
14	226	Roadway	Construct VA 234 Bypass North, I-66 to US 50	Construct VA 234 Bypass North (Bi-County Parkway) from I-66 to US 50. Close US 29 from Pageland Lane to the bridge over Bull Run and close VA 234 Sudley Road from the southern park boundary to the northern park boundary.
15	235	Roadway	Construct University Boulevard	Construct four lanes from Progress Court to Sudley Manor Drive



**Segment 2-3: Rt. 234 — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
16	238	Roadway	Widen Balls Ford Rd, Wellington Rd to Coppermine Dr	Widen Balls Ford Rd to four lanes from Wellington Rd to Coppermine Dr
17	240	Roadway	Widen Cushing Rd, Balls Ford Rd to I-66	Widen Cushing Rd to four lanes from Balls Ford Rd. to I-66
18	242	Roadway	Widen Devlin Rd, Wellington Rd to Linton Hall Rd	Widen Devlin Rd to four lanes from Wellington Rd to Linton Hall Rd
19	243	Roadway	Widen Dumfries Rd from Brentsville Road to Country Club Dr	Widen Dumfries Rd to six lanes from Brentsville Rd to Country Club Dr.
20	248	Roadway	Widen Hornbaker Rd, Wellington Rd to Nokesville Rd	Widen Hornbaker Rd to four lanes from Wellington Rd to Nokesville Rd
21	251	Roadway	US 1 Jefferson Davis Highway Widening, Dumfries Rd to Cardinal Dr	Widen US 1 Jefferson Davis Highway to six lanes between VA-234 Dumfries Rd and Cardinal Dr / Neabsco Rd
22	258	Roadway	Construct North South Rd, University Blvd to Wellington Rd	Construct four lane North South Rd, University Blvd to Wellington Rd
23	263	Roadway	Widen Prince William Pkwy, I-66 to Brentsville Rd	Widen Prince William Pkwy to six lanes, I-66 to Brentsville Rd
24	266	Roadway	Complete Rollins Ford Rd, Vint Hill Rd to Wellington Rd	Complete four lane Rollins Ford Rd, Linton Hall Rd to Wellington Rd
25	267	Roadway	Construct Station Rd, University Blvd to Balls Ford Rd	Construct four lane Station Rd, University Blvd to Balls Ford Rd
26	269	Roadway	Widen Sudley Manor Dr, Prince William Pkwy to Sudley Rd	Widen Sudley Manor Dr to six lanes, Prince William Pkwy to Sudley Rd
27	274	Roadway	Construct VanBuren North Rd, Cardinal Dr to Dumfries Rd	Construct four lane VanBuren North Rd, Cardinal Dr to Dumfries Rd
28	275	Roadway	Construct Van Buren South Rd, Dumfries Rd to Mine Rd	Construct four lane Van Buren South Rd, Dumfries Rd to Mine Rd
29	277	Roadway	Widen Wellington Blvd, Prince William Pkwy to Godwin Dr	Widen Wellington Road from 2 to 4 lanes between Godwin Dr. and the Prince William Pkwy. and from 2 to 6 lanes between the Prince William Pkwy. and University Blvd.
30	284	Roadway	VA Route 234 / Brentsville Interchange	Construct interchange at VA 234 and Brentsville Rd
31	285	Roadway	VA 234/ Clover Hill Rd Interchange	Construct a grade-separated interchange at VA 234/Prince William Pkwy and Clover Hill Rd

**Segment 2-3: Rt. 234 — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
32	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
33	298	Transit	Implement new OmniLink service	Implement new OmniLink routes: Innovation-to-Gainesville/Haymarket; Innovation-to-Manassas; Montclair local
34	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20 min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>

**Segment 2-3: Rt. 234 — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
35	315	Transit	I-66 Corridor Park & Ride Prince William	Construct new park & ride lots along the I-66 corridor in Prince William at *Dominion, ***Innovation, ***James Madison Arrowleaf, ***Linton Hall School, and ***Yorkshire. Expand existing P&R capacity at *Limestone Drive and *Manassas Mall/Sears.
36	316	Transit	I-95 Corridor Park & Ride Prince William	Expand park & ride capacity at **Brittany Park, **Hillendale, **Montclair, **Old Bridge/Minnieville Rd, *Old Bridge Festival, ***Old Bridge/US route 1, *Potomac Mills, *Prince William Square, ***PRTC Transit Center, ***VA 234/ US 1, *Tacketts Mill Shopping Center, Construct a new park & ride lot at Cherry Hill and and a new park & ride garage at Potomac Center.
37	320	Roadway	Rt. 234 (P.W. Pkwy)/University Blvd. Interchange	Construct an interchange at Rt. 234 and University Blvd.
38	321	Roadway	Rt. 1 (Jefferson Davis Hwy.)/Rt. 234 (Dumfries Rd.)/Potomac Shores Pkwy.	Construct a "quadrant at-grade" interchange at Rt. 1, Rt. 234 and Potomac Shores Parkway
39	326	Transit	Manassas Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
40	327	Roadway	I-95 General Purpose Lanes Widening from Occoquan River Bridge to Route 234 (exit 152)	Widen SB I-95 to four lanes between the Occoquan River Bridge and VA 234 Dumfries Rd (exit 152).
41	339	ITS/ICM	I-95 ITS/ICM Improvements	Implement intelligent transportation systems, adaptive traffic control, and hard shoulder lanes on I-95
42	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
43	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia

**Segment 2-3: Rt. 234 — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
44	342	Roadway	Joplin Rd Improvements	Implement speed limit adjustments on VA 619 Joplin Road.
45	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station

**Segment 3-1: Rt. 28 — Rt. 7 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	10	Transit	East Loudon Park-and-ride	Construct new park-and-ride lots at VA 7 at Dulles Town Center and VA 7 at VA 659
2	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
3	14	Transit	Transit Connections to Silver Line Phase II Stations	Expand bus service and connections to Silver Line Phase II stations. Provide feeder bus service between Metrorail and P&R lots. Purchase buses for new service.
4	17	Transit	One Loudoun Park-and-Ride	Construct 200 space park-and-ride lot at One Loudoun near the corner of VA 7 and Loudoun County Parkway
5	20	Roadway	Davis Drive Extension & Dulles Toll Road - Rock Hill Overpass	Extend Davis Dr (VA 868) from Glenn Drive (VA 864) to Fairfax County line at the future bridge over VA Route 267. Realign Rock Hill Rd with Davis Drive. Construct a 4-lane roadway over the Dulles Toll Road from Sunrise Valley Drive on the south, to Davis Drive extension in Loudoun County on the north side. The project would include pedestrian and bicycle facilities.
6	24	Roadway	Outer Potomac River Crossing	Construct crossing of Potomac River between Route 28 in Virginia to I-270 in Maryland
7	27	Roadway	VA 28 Widening, I-66 to Loudoun	Widen VA 28 to 10 lanes between I-66 and Loudoun County (8 GP + 2 HOV)
8	29	Roadway	Centreville Rd Widening	Widen VA 657 (Centreville Road) to six lanes between Herndon Pkwy and Walney Rd
9	31	Roadway	VA 28 Widening, US 29 to Prince William Cty Line	Widen VA 28 to six lanes between Prince William County Line and U.S. 29
10	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
11	33	Bike/Ped	VA 28 Trail	Construct a shared used path on both sides of VA 28 from Prince William County line to Dulles Toll Road
12	42	Transit	Fairfax County Pkwy Priority Bus Service	Implement priority bus service on Fairfax County Parkway between Herndon/Monroe Metrorail station and Ft. Belvoir

**Segment 3-1: Rt. 28 — Rt. 7 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
13	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
14	48	Transit	Extend High Capacity Transit to Centreville	Extend High Capacity transit from Metrorail to Centreville Potential modes include LRT, BRT, or improved bus service on corridor between stations. Construction of stations and PNR lots at Centreville, Stringfellow, and Government Center / Fair Oaks, and a station serving the City of Fairfax.
15	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
16	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
17	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.
18	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
19	109	Transit	Loudoun County Phase III Bus Service	Implement Phase III bus service in Loudoun County, including local, express, intercounty, commuter, and demand-response services
20	120	Roadway	Waxpool Rd / Loudoun County Pkwy Intersection Improvements	Improve intersection at Waxpool Rd / Loudoun County Pkwy to include three westbound left-turn lanes on Waxpool Rd and a new free-flow right turn lane on Loudoun County Pkwy



**Segment 3-1: Rt. 28 — Rt. 7 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
21	144	Roadway	Lockridge Rd Widening	Widen Lockridge Rd (VA 789) to 4 lanes from Old Ox Rd (VA 606) to Prentice Dr (VA 1071). Provides access for VA 606 Metrorail Station. Extend Lockridge Rd (VA 789) from Prentice Dr (VA 1071) to Waxpool Rd (VA 640) - construct 4 lanes.
22	145	Roadway	Sterling Blvd Widening	Widen Sterling Blvd (VA 846) from Sully Road (VA 28) to Davis Drive (VA 868) from 4 to 6 lanes.
23	146	Roadway	Sterling Blvd Extension	Extend Sterling Blvd (VA 846) from Randolph Drive (VA 1072) to Pacific Blvd (VA 1036) - construct 4 lanes.
24	147	Roadway	Pacific Blvd Extension	Extend Pacific Blvd (VA 28 West Collector Rd) from Old Ox Rd (VA 606) to Innovation Ave (VA 209): Widen/construct 6-lane roadway. Potential modification to existing VA 28/Innovation Ave interchange.
25	148	Roadway	Russell Branch Parkway Widening	Widen Russell Branch Pkwy (VA 7 South Collector Rd) between Pacific Blvd (VA 1036) and Claiborne Pkwy (VA 901): Widen/construct a 6-lane roadway.
26	149	Roadway	Prentice Drive Extension	Extend Prentice Drive west from Lockridge Road (VA 789) to Shellhorn Road (VA 643) - construct 4 lanes.
27	151	Roadway	Widen Smith Switch Road	Widen Smith Switch Rd (VA 1950) from 2 to 4 lanes between Waxpool Road (VA 625) and Gloucester Pkwy (VA 2150)
28	152	Roadway	Widen Gloucester Parkway	Widen Gloucester Parkway (VA 2150) from 4 to 6 lanes between VA 28 (Sully Rd) and Loudoun County Pkwy (VA 607).
29	154	Roadway	Widen VA 28, Fairfax County line to VA 606	Widen VA 28 (Sully Rd) from 6 to 10 lanes between Fairfax County line and Old Ox Rd (VA 606). Study of alternative uses (bus lanes, HOV) to be considered.
30	158	Roadway	Widen VA 28, VA 7 to Old Ox Rd	Widen VA 28 (Sully Rd) from 6 to 8 lanes between Old Ox Rd (VA 606) and VA 7 (Harry Byrd Highway). Study of alternative uses (bus lanes, HOV) to be considered.



**Segment 3-1: Rt. 28 — Rt. 7 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
31	162	Roadway	Widen VA 7, Leesburg Bypass to Atlantic Blvd (Harry Byrd Highway/East Market Street)	Widen VA 7 (Harry Byrd Highway) to 8 lanes between US 15 (Leesburg Bypass) and Atlantic Blvd (VA 1902). Study of alternative uses (bus lanes, HOV) to be considered for segment between VA 28 and Leesburg Bypass.
32	166	Roadway	Widen Innovation Avenue	Widen Innovation Avenue (VA 209) between VA 28 (Sully Rd) and Fairfax County line from 4 to 6 lanes. Road to be realigned along northern boundary of Dulles World Center site. Includes connection to Rock Hill Rd (VA 605). Potential future modification to existing Route 28/Innovation interchange.
33	171	Roadway	Widen Old Ox Rd, VA 28 to Fairfax County line	Widen Old Ox Rd (VA 606) to 6 lanes between VA 28 (Sully Rd) and Fairfax County line / Herndon town limits.
34	173	Roadway	Widen Old Ox Rd, VA 28 to Dulles Greenway	Widen Old Ox Rd (VA 606) to 6 lanes between VA 28 (Sully Rd) and VA 267 (Dulles Greenway).
35	174	Roadway	Widen Loudoun County Pkwy, GW Blvd to Waxpool Rd	Widen Loudoun County Pkwy (VA 607) to 6 lanes from George Washington Blvd (VA 1050) to Waxpool Rd (VA 625).
36	175	Roadway	Widen Loudoun County Pkwy, Waxpool Rd to VA 267	Widen Loudoun County Pkwy (VA 607) to 6 lanes from Waxpool Rd (VA 625) to Dulles Greenway (VA 267)
37	181	Roadway	Widen VA 625 (Waxpool Rd / Farmwell Rd)	Widen Waxpool Rd (VA 625) to 6 lanes between Church Rd and Ashburn Rd (VA 641).
38	183	Roadway	Extend Shellhorn Rd	Extend Shellhorn Rd (VA 643) between Loudoun County Pkwy (VA 607) and Randolph Drive (VA 1072) - 4 lanes.
39	188	Roadway	Widen Relocation Drive	Widen Relocation Dr (VA 775) from 2 to 4 lanes between Old Ox Rd (VA 606) and Pacific Blvd (VA 1036).
40	191	Roadway	Improve interchange, VA 28 at Old Ox Rd	Improve grade-separated intersection, VA 28 at Old Ox Rd
41	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
42	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.

**Segment 3-1: Rt. 28 — Rt. 7 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
43	212	Roadway	Widen Dulles Airport Access Road	Widen Dulles Airport Access Road from Dulles Airport to VA 123
44	222	Roadway	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes from VA 267 Dulles Toll Road to I-66.
45	233	Roadway	Construct VA 606 ramp	Construct VA 606 ramp
46	304	Roadway	VA 7 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 7 from the Fairfax County Line to the Clarke County Line, as directed by the Board.
47	313	Transit	Transit buses purchase	Purchase of buses in support of Loudoun County's transit services.
48	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
49	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
50	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
51	346	Roadway	Dulles Greenway Merge Lanes	Construct additional capacity on Dulles Greenway at merges, particularly at the connections with the Dulles Toll Road, to allow for better operation and weave movements.
52	347	Roadway	VA-28 Reversible HOV Lanes	Implement reversible HOV lanes on VA-28 between I-66 and the Dulles Toll Road during AM and PM peak periods
53	357	Roadway	Braddock Rd Widening, VA-28 to County Line	Widen Braddock Rd to four lanes between VA-28 and the Fairfax County Line

**Segment 3-2: Rt. 28 — I-66 to Fauquier County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	25	Roadway	VA 28/Prince William Pkwy Interchange	Reconstruct interchange at VA 28 and Prince William Pkwy
2	26	ITS/ICM	VA 234 Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on VA 234.
3	27	Roadway	VA 28 Widening, I-66 to Loudoun	Widen VA 28 to 10 lanes between I-66 and Loudoun County (8 GP + 2 HOV)
4	28	Roadway	VA 28 / New Braddock Rd Interchange	Construct an interchange at VA 28 and New Braddock Road
5	30	Roadway	VA 28 Widening, Conner Dr to Old Centreville Rd	Widen VA 28 to six lanes between Conner Drive and Old Centreville Road
6	31	Roadway	VA 28 Widening, US 29 to Prince William Cty Line	Widen VA 28 to six lanes between Prince William County Line and U.S. 29
7	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
8	33	Bike/Ped	VA 28 Trail	Construct a shared used path on both sides of VA 28 from Prince William County line to Dulles Toll Road
9	34	Roadway	Godwin Dr Widening	Widen Godwin Dr from four to six lanes between Sudley Rd and VA 28
10	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
11	48	Transit	Extend High Capacity Transit to Centreville	Extend High Capacity transit from Metrorail to Centreville Potential modes include LRT, BRT, or improved bus service on corridor between stations. Construction of stations and PNR lots at Centreville, Stringfellow, and Government Center / Fair Oaks, and a station serving the City of Fairfax.
12	52	Roadway	Stone Road Overpass over I-66 from Route 29 to Route 28	Construct 4-lane divided road between Stone Road at Route 29 and New Braddock Road, including bridges over I-66 and Big Rocky Run and a shared use path
13	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.

**Segment 3-2: Rt. 28 — I-66 to Fauquier County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
14	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
15	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
16	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
17	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
18	216	Roadway	Widen US 29, VA 665 to Pickwick Rd	Widen US 29 from 4 to 6 lanes from Waples Mill Rd to Pickwick Road
19	230	Roadway	Construct/widen New Braddock Road	Construct/widen New Braddock Road from 0/2 lanes to 4 lanes from VA 28 to US 29 at VA 662 (Stone Road).
20	248	Roadway	Widen Hornbaker Rd, Wellington Rd to Nokesville Rd	Widen Hornbaker Rd to four lanes from Wellington Rd to Nokesville Rd
21	258	Roadway	Construct North South Rd, University Blvd to Wellington Rd	Construct four lane North South Rd, University Blvd to Wellington Rd
22	261	Roadway	Widen Old Centreville Rd, Fairfax CL to Centreville Rd (VA 28)	Widen Old Centreville Rd to four lanes between Fairfax County line and Centreville Rd (VA 28)
23	263	Roadway	Widen Prince William Pkwy, I-66 to Brentsville Rd	Widen Prince William Pkwy to six lanes, I-66 to Brentsville Rd
24	264	Roadway	Widen Prince William Pkwy, Liberia Ave to Hoadly Rd	Widen Prince William Pkwy to six lanes, Liberia Ave to Hoadly Rd
25	273	Roadway	Godwin Drive Extension	Construct four lane extension of Godwin Drive between Sudley Rd and Route 28 between Bull Run and Compton Rd. Construct grade-separated interchanges at Lomond Dr and Sudley Rd
26	276	Roadway	Widen Vint Hill Rd, Fauquier CL to Schaeffer Lane	Widen Vint Hill Rd to four lanes, Fauquier CL to Schaeffer Lane
27	277	Roadway	Widen Wellington Blvd, Prince William Pkwy to Godwin Dr	Widen Wellington Road from 2 to 4 lanes between Godwin Dr. and the Prince William Pkwy. and from 2 to 6 lanes between the Prince William Pkwy. and University Blvd.

**Segment 3-2: Rt. 28 — I-66 to Fauquier County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
28	278	Roadway	Widen Liberia Ave, Prince William Pkwy to Centreville Rd (VA 28)	Widen Liberia Ave to six lanes, Prince William Pkwy to Centreville Rd (VA 28)
29	279	Roadway	Widen VA 28, Liberia Ave to Manassas Park North CL	Widen VA 28 to six lanes, Liberia Ave to Manassas Park North CL
30	298	Transit	Implement new OmniLink service	Implement new OmniLink routes: Innovation-to-Gainesville/Haymarket; Innovation-to-Manassas; Montclair local
31	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20 min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>
32	315	Transit	I-66 Corridor Park & Ride Prince William	Construct new park & ride lots along the I-66 corridor in Prince William at *Dominion, ***Innovation, ***James Madison Arrowleaf, ***Linton Hall School, and ***Yorkshire. Expand existing P&R capacity at *Limestone Drive and *Manassas Mall/Sears.
33	320	Roadway	Rt. 234 (P.W. Pkwy)/University Blvd. Interchange	Construct an interchange at Rt. 234 and University Blvd.



**Segment 3-2: Rt. 28 — I-66 to Fauquier County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
34	326	Transit	Manassas Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
35	328	Roadway	Widen Route 28 from 4 -6 lanes from Conner Drive (Manassas/PWC line) to Bull Run Creek (Fairfax County Line)	Widen Route 28 from 4 -6 lanes from Conner Drive (Manassas/PWC line) to Bull Run Creek (Fairfax County Line).
36	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
37	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
38	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
39	347	Roadway	VA-28 Reversible HOV Lanes	Implement reversible HOV lanes on VA-28 between I-66 and the Dulles Toll Road during AM and PM peak periods
40	351	Roadway	Tri-County Parkway	Construct four-lane Tri-County Parkway facility between Godwin Drive extension and I-66 interchange. Construct four lane facility between I-66 and Manassas Battlefield Parkway / Gum Springs Rd.
41	357	Roadway	Braddock Rd Widening, VA-28 to County Line	Widen Braddock Rd to four lanes between VA-28 and the Fairfax County Line
42	358	Roadway	Euclid Avenue Extension	Extend four lane Euclid Avenue north from Prescott Ave to Route 28 south of Bull Run

**Segment 4-1: Prince William Parkway — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	25	Roadway	VA 28/Prince William Pkwy Interchange	Reconstruct interchange at VA 28 and Prince William Pkwy
2	26	ITS/ICM	VA 234 Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on VA 234.
3	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
4	34	Roadway	Godwin Dr Widening	Widen Godwin Dr from four to six lanes between Sudley Rd and VA 28
5	35	Roadway	Prince William Parkway Widening at I-95	Widen Prince William Parkway to six lanes between the I-95 on / off ramps
6	36	Roadway	Sudley Road Widening	Widen Sudley Road from four to six lanes from I-66 to Balls Ford Road
7	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
8	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
9	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
10	81	Transit	High Capacity Transit Extension to Potomac Mills	Extend high capacity surface transit from Springfield to Potomac Mills. Potential modes include LRT, BRT, or improved bus service on corridor between stations**. Potomac Mills to serve as a park-ride lot.



**Segment 4-1: Prince William Parkway — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
11	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
12	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
13	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.
14	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
15	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
16	238	Roadway	Widen Balls Ford Rd, Wellington Rd to Coppermine Dr	Widen Balls Ford Rd to four lanes from Wellington Rd to Coppermine Dr
17	241	Roadway	Widen Dale Blvd, US 1 to Benita Fitzgerald Dr	Widen Dale Blvd to six lanes from US 1 to Benita Fitzgerald Dr
18	248	Roadway	Widen Hornbaker Rd, Wellington Rd to Nokesville Rd	Widen Hornbaker Rd to four lanes from Wellington Rd to Nokesville Rd
19	258	Roadway	Construct North South Rd, University Blvd to Wellington Rd	Construct four lane North South Rd, University Blvd to Wellington Rd
20	259	Roadway	Widen Old Bridge Rd, Colby Dr to Minnieville Rd	Widen Old Bridge Rd to six lanes, Colby Dr to Minnieville Rd

**Segment 4-1: Prince William Parkway — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
21	262	Roadway	Widen Opitz Blvd, Gideon Dr to US 1	Widen Opitz Blvd to six lanes, Gideon Dr to US 1
22	263	Roadway	Widen Prince William Pkwy, I-66 to Brentsville Rd	Widen Prince William Pkwy to six lanes, I-66 to Brentsville Rd
23	264	Roadway	Widen Prince William Pkwy, Liberia Ave to Hoadly Rd	Widen Prince William Pkwy to six lanes, Liberia Ave to Hoadly Rd
24	268	Roadway	Widen Sudley Rd, US 15 to US 29	Widen Sudley Rd to four lanes, US 15 James Madison Highway to US 29 Lee Highway
25	269	Roadway	Widen Sudley Manor Dr, Prince William Pkwy to Sudley Rd	Widen Sudley Manor Dr to six lanes, Prince William Pkwy to Sudley Rd
26	270	Roadway	Summit School Road Extension and Widening	Extend Summit School Road from Minnieville Road to Telegraph Road as a six lane road.
27	271	Roadway	Construct/widen Telegraph Rd, Minnieville Rd to VA-294	Widen Telegraph Rd to four lanes between Minnieville Rd and Summit School Rd Widen Telegraph Rd to six lanes between Summit School Rd and Caton Hill Rd Widen Telegraph Rd to four lanes between Caton Hill Rd and VA-294
28	273	Roadway	Godwin Drive Extension	Construct four lane extension of Godwin Drive between Sudley Rd and Route 28 between Bull Run and Compton Rd. Construct grade-separated interchanges at Lomond Dr and Sudley Rd
29	277	Roadway	Widen Wellington Blvd, Prince William Pkwy to Godwin Dr	Widen Wellington Road from 2 to 4 lanes between Godwin Dr. and the Prince William Pkwy. and from 2 to 6 lanes between the Prince William Pkwy. and University Blvd.
30	278	Roadway	Widen Liberia Ave, Prince William Pkwy to Centreville Rd (VA 28)	Widen Liberia Ave to six lanes, Prince William Pkwy to Centreville Rd (VA 28)
31	279	Roadway	Widen VA 28, Liberia Ave to Manassas Park North CL	Widen VA 28 to six lanes, Liberia Ave to Manassas Park North CL
32	280	Roadway	Prince William Pkwy / Minnieville Rd Interchange	Construct interchange at Prince William Parkway and Minnieville Rd
33	281	Roadway	Prince William Pkwy / Smoketown Rd Interchange	Construct interchange at Prince William Parkway and Smoketown Rd
34	285	Roadway	VA 234/ Clover Hill Rd Interchange	Construct a grade-separated interchange at VA 234/Prince William Pkwy and Clover Hill Rd

**Segment 4-1: Prince William Parkway — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
35	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
36	298	Transit	Implement new OmniLink service	Implement new OmniLink routes: Innovation-to-Gainesville/Haymarket; Innovation-to-Manassas; Montclair local
37	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20 min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>

**Segment 4-1: Prince William Parkway — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
38	315	Transit	I-66 Corridor Park & Ride Prince William	Construct new park & ride lots along the I-66 corridor in Prince William at *Dominion, ***Innovation, ***James Madison Arrowleaf, ***Linton Hall School, and ***Yorkshire. Expand existing P&R capacity at *Limestone Drive and *Manassas Mall/Sears.
39	316	Transit	I-95 Corridor Park & Ride Prince William	Expand park & ride capacity at **Brittany Park, **Hillendale, **Montclair, **Old Bridge/Minnieville Rd, *Old Bridge Festival, ***Old Bridge/US route 1, *Potomac Mills, *Prince William Square, ***PRTC Transit Center, ***VA 234/ US 1, *Tacketts Mill Shopping Center, Construct a new park & ride lot at Cherry Hill and and a new park & ride garage at Potomac Center.
40	320	Roadway	Rt. 234 (P.W. Pkwy)/University Blvd. Interchange	Construct an interchange at Rt. 234 and University Blvd.
41	322	Roadway	Rt. 294 (P.W. Pkwy.)/Old Bridge Road	Construct an interchange at Rt. 294 and Old Bridge Road
42	326	Transit	Manassas Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
43	327	Roadway	I-95 General Purpose Lanes Widening from Occoquan River Bridge to Route 234 (exit 152)	Widen SB I-95 to four lanes between the Occoquan River Bridge and VA 234 Dumfries Rd (exit 152).
44	328	Roadway	Widen Route 28 from 4 -6 lanes from Conner Drive (Manassas/PWC line) to Bull Run Creek (Fairfax County Line)	Widen Route 28 from 4 -6 lanes from Conner Drive (Manassas/PWC line) to Bull Run Creek (Fairfax County Line).
45	339	ITS/ICM	I-95 ITS/ICM Improvements	Implement intelligent transportation systems, adaptive traffic control, and hard shoulder lanes on I-95
46	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.

**Segment 4-1: Prince William Parkway — I-66 to I-95**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
47	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
48	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
49	351	Roadway	Tri-County Parkway	Construct four-lane Tri-County Parkway facility between Godwin Drive extension and I-66 interchange. Construct four lane facility between I-66 and Manassas Battlefield Parkway / Gum Springs Rd.

**Segment 5-1: Fairfax County Parkway — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	8	Roadway	Soapstone Dr Extension	Extend Soapstone Dr over Dulles Toll Road
2	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
3	13	Roadway	Herndon Metrorail Station Pedestrian/Bike Improvements	<p>Implement roadway, bicycle, and pedestrian improvements to improve access to the Herndon Metrorail Station, including:</p> <ul style="list-style-type: none"> <li>i. Construct an extension to the Folly Lick Trail from Van Buren St to future Herndon Metrorail station;</li> <li>ii. Continue improvements of the W&amp;OD Trail on select sections within Herndon town limits;</li> <li>iii. Construct extension of Sugarland Run Trail from existing terminus to pedestrian access pavilion at future Herndon Metrorail station;</li> <li>iv. Construct missing regional links in Folly Lick Region Trail between Wiehle Ave and connection with W&amp;OD Trail;</li> <li>v. Reconstruct Herndon Parkway with 'Complete Street' improvements to include 1-way cycle tracks, wide sidewalks and bus stop enhancements (between Van Buren Street and W&amp;OD Regional Trail) to connect with Herndon Metrorail Station;</li> <li>vi. Reconstruct Van Buren Street between Old Spring St and town limits with 'Complete Streets' improvements to expand and enhance on and off-street</li> </ul>
4	14	Transit	Transit Connections to Silver Line Phase II Stations	Expand bus service and connections to Silver Line Phase II stations. Provide feeder bus service between Metrorail and P&R lots. Purchase buses for new service.
5	18	Roadway	Dulles Toll Road - Town Center Parkway Underpass	Construct 4-lane divided roadway under the Dulles Toll Road from Sunrise Valley Drive to Sunset Hills Road



**Segment 5-1: Fairfax County Parkway — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
6	21	Roadway	Hunter Mill Road/Sunset Hills Road Improvements	Widen Hunter Mill Road to four lanes between Crowell Road and VA 267 Dulles Toll Road. Widen Sunset Hills Road to four lanes between Wiehle Ave and Hunter Mill Road, realigned with Crowell Road.
7	23	Bike/Ped	Herndon Bike-Sharing Services	Introduce and expand bike-sharing services in Herndon
8	27	Roadway	VA 28 Widening, I-66 to Loudoun	Widen VA 28 to 10 lanes between I-66 and Loudoun County (8 GP + 2 HOV)
9	29	Roadway	Centreville Rd Widening	Widen VA 657 (Centreville Road) to six lanes between Herndon Pkwy and Walney Rd
10	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
11	33	Bike/Ped	VA 28 Trail	Construct a shared used path on both sides of VA 28 from Prince William County line to Dulles Toll Road
12	37	Roadway	Fairfax County Pkwy HOV Widening (Dulles Toll Rd)	Widen Fairfax County Pkwy by adding HOV lanes from Dulles Toll Rd to VA 7
13	42	Transit	Fairfax County Pkwy Priority Bus Service	Implement priority bus service on Fairfax County Parkway between Herndon/Monroe Metrorail station and Ft. Belvoir
14	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
15	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
16	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7



**Segment 5-1: Fairfax County Parkway — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
17	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.
18	109	Transit	Loudoun County Phase III Bus Service	Implement Phase III bus service in Loudoun County, including local, express, intercounty, commuter, and demand-response services
19	123	Roadway	Fairfax County Pkwy / Sunrise Valley Dr Interchange	Construct a grade-separated interchange at Fairfax County Parkway and Sunrise Valley Dr
20	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
21	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
22	212	Roadway	Widen Dulles Airport Access Road	Widen Dulles Airport Access Road from Dulles Airport to VA 123
23	222	Roadway	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes from VA 267 Dulles Toll Road to I-66.
24	228	Roadway	Widen Reston Parkway	Widen Reston Parkway from 4 to 6 lanes between South Lakes Dr and Dulles Toll Road VA 267
25	304	Roadway	VA 7 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 7 from the Fairfax County Line to the Clarke County Line, as directed by the Board.
26	313	Transit	Transit buses purchase	Purchase of buses in support of Loudoun County's transit services.
27	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
28	332	Roadway	Construct lanes on Reston Parkway	Construct lanes on Reston Parkway from Sunrise Valley Drive to Baron Cameron Ave.

**Segment 5-1: Fairfax County Parkway — Rt. 7 to US 50**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
29	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
30	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
31	347	Roadway	VA-28 Reversible HOV Lanes	Implement reversible HOV lanes on VA-28 between I-66 and the Dulles Toll Road during AM and PM peak periods
32	348	Transit	Reston Express Bus	Implement Express bus service between Reston Town Center and Fairfax Center via Reston Parkway and West Ox Rd

**Segment 5-2: Fairfax County Parkway — US 50 to Rolling Road**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	38	Roadway	Fairfax County Pkwy HOV Widening (Franconia)	Widen Fairfax County Pkwy by adding HOV lanes from Franconia Springfield Pkwy to I-66
2	40	Roadway	Rolling Rd Widening	Widen Rolling Rd to four lanes between Hunter Village Dr and Old Keene Mill Rd
3	41	Roadway	Fairfax County Pkwy Widening	Widen Fairfax County Pkwy to six lanes from VA 123 to Sydenstricker Rd
4	42	Transit	Fairfax County Pkwy Priority Bus Service	Implement priority bus service on Fairfax County Parkway between Herndon/Monroe Metrorail station and Ft. Belvoir
5	43	Roadway	Route 286 Widening Fairfax County Parkway Widening (VA 123 to US 29)	Widen Fairfax County Parkway from VA 123 (Ox Rd) to US 29 (Lee Highway) from four lanes to six lanes. Construct a grade-separated interchange at the intersection of the Fairfax County Parkway and Popes Head Road, with shared used paths on both sides.
6	44	Roadway	Shirley Gate Road Extension	Extend Shirley Gate Road from Braddock Rd to Fairfax County Parkway
7	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
8	48	Transit	Extend High Capacity Transit to Centreville	Extend High Capacity transit from Metrorail to Centreville Potential modes include LRT, BRT, or improved bus service on corridor between stations. Construction of stations and PNR lots at Centreville, Stringfellow, and Government Center / Fair Oaks, and a station serving the City of Fairfax.
9	49	Transit	US 29 / US 50 Priority Bus	Implement priority bus service along US 29 and US 50 between Fair Oaks and Washington DC.
10	55	Bike/Ped	US 29 trail	Construct a trail along US 29 from Dixie Hill Rd to EFC Metrorail Station
11	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.

**Segment 5-2: Fairfax County Parkway — US 50 to Rolling Road**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
13	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.
14	96	Roadway	Braddock Rd Widening, Ox Road to Fairfax County Pkwy	Widen Braddock Rd to six lanes from Ox Rd to VA 286
15	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
16	110	Transit	South County Feeder Bus Service	Improve service levels on bus routes serving Richmond Highway, Kingstowne, and Springfield
17	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
18	216	Roadway	Widen US 29, VA 665 to Pickwick Rd	Widen US 29 from 4 to 6 lanes from Waples Mill Rd to Pickwick Road
19	218	Roadway	Widen VA 123, Hooes Rd to Braddock Road	Widen VA 123 Ox Road from 4 to 6 lanes between Hooes Road and Braddock Rd
20	222	Roadway	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes from VA 267 Dulles Toll Road to I-66.
21	223	Roadway	Construct VA 289 Franconia-Springfield Parkway HOV interchange	Construct VA 289 Franconia-Springfield Parkway HOV interchange at Neuman Street.
22	224	Roadway	Upgrade VA 289 Franconia-Springfield Parkway to include HOV lanes	Upgrade VA 289 Franconia-Springfield Parkway to include HOV lanes from Rolling Road to Backlick Road.

**Segment 5-2: Fairfax County Parkway — US 50 to Rolling Road**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
23	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20-min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>
24	326	Transit	Manassas Line Peak Period Service Expansion	<p>Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Purchase additional rolling stock</li> <li>b. Construct/expand VRE equipment storage and maintenance facilities</li> <li>c. Rail Line capacity improvements</li> <li>d. Station/Parking Access improvements</li> <li>e. ITS/TSM improvements.</li> </ul>
25	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
26	337	Roadway	Fairfax County Parkway / Shirley Gate Extension Interchange	Construct grade-separated interchange at Fairfax County Parkway and extension of Shirley Gate Dr

**Segment 5-2: Fairfax County Parkway — US 50 to Rolling Road**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
27	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
28	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
29	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
30	348	Transit	Reston Express Bus	Implement Express bus service between Reston Town Center and Fairfax Center via Reston Parkway and West Ox Rd
31	350	Transit	US 29 BRT	Implement BRT service on US 29 Lee Highway in a dedicated lane where facility is six lanes.



**Segment 5-3: Fairfax County Parkway — Rolling Road to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	38	Roadway	Fairfax County Pkwy HOV Widening (Franconia)	Widen Fairfax County Pkwy by adding HOV lanes from Franconia Springfield Pkwy to I-66
2	39	Roadway	Fairfax County Pkwy/ US 1 Interchange	Construct interchange at Fairfax County Pkwy and US 1
3	40	Roadway	Rolling Rd Widening	Widen Rolling Rd to four lanes between Hunter Village Dr and Old Keene Mill Rd
4	42	Transit	Fairfax County Pkwy Priority Bus Service	Implement priority bus service on Fairfax County Parkway between Herndon/Monroe Metrorail station and Ft. Belvoir
5	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
6	74	Roadway	I-95 / Fairfax County Pkwy Flyover Ramp	Construct a flyover ramp from northbound I-95 to northbound Fairfax County Parkway and make other interchange improvements
7	75	Roadway	US 1 Interchange at Telegraph Road	Construct interchange at US 1 and VA 611 (Telegraph Road)
8	81	Transit	High Capacity Transit Extension to Potomac Mills	Extend high capacity surface transit from Springfield to Potomac Mills. Potential modes include LRT, BRT, or improved bus service on corridor between stations**. Potomac Mills to serve as a park-ride lot.
9	89	Transit	US 1 BRT	Construct along US 1 BRT with stations at Beacon Hill, Hybla Valley, Fort Belvoir, Penn Daw, Pohick Rd, Woodlawn, and South County Government and with transit transfer centers at Kingman Rd and Fort Belvoir. Includes US 1 widening between VA 235 and I-495.
10	90	Transit	Fredericksburg Line Rail Capacity Improvements	Add a third track between AF and the VRE Crossroads Yard south of Fredericksburg.



**Segment 5-3: Fairfax County Parkway — Rolling Road to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
11	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
12	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}
13	110	Transit	South County Feeder Bus Service	Improve service levels on bus routes serving Richmond Highway, Kingstowne, and Springfield
14	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
15	124	Transit	New Bus Garage in Northern Virginia	Construct a new bus garage in Northern Virginia. Location and size to be determined by service improvements in Northern Virginia transit network.
16	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.

**Segment 5-3: Fairfax County Parkway — Rolling Road to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
17	223	Roadway	Construct VA 289 Franconia-Springfield Parkway HOV interchange	Construct VA 289 Franconia-Springfield Parkway HOV interchange at Neuman Street.
18	224	Roadway	Upgrade VA 289 Franconia-Springfield Parkway to include HOV lanes	Upgrade VA 289 Franconia-Springfield Parkway to include HOV lanes from Rolling Road to Backlick Road.
19	283	Roadway	Widen US 1, Occuquan River Bridge to VA 235 North	Widen US 1 to six lanes, Occuquan River Bridge/ Fairfax County Line to Telegraph Rd
20	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac-Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
21	324	Transit	Fredericksburg Line Service Expansion	Implement VRE service improvements on the Fredericksburg line to reduce headways to 20 min in peak period. In support of this improvement: a. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment). b. Construct/expand VRE equipment storage and maintenance facilities in Fredericksburg and midday storage in Washington, D.C. c. Construct station/platform, parking and access improvements at VRE Fredericksburg Line stations d. Improve information sharing through ITS/TSM enhancements for improved communications.

**Segment 5-3: Fairfax County Parkway — Rolling Road to US 1**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
22	325	Transit	Fredericksburg Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
23	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
24	339	ITS/ICM	I-95 ITS/ICM Improvements	Implement intelligent transportation systems, adaptive traffic control, and hard shoulder lanes on I-95
25	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
26	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
27	343	Transit	VRE Express Service - Fredericksburg Line	Implement peak period express service on VRE Fredericksburg Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Spotsylvania, Leeland Rd, Woodbridge, Alexandria, Crystal City, L'Enfant, and Union Station

**Segment 6-1: I-66/US 29/VRE Manassas — Prince William County Line to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	25	Roadway	VA 28/Prince William Pkwy Interchange	Reconstruct interchange at VA 28 and Prince William Pkwy
2	26	ITS/ICM	VA 234 Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on VA 234.
3	27	Roadway	VA 28 Widening, I-66 to Loudoun	Widen VA 28 to 10 lanes between I-66 and Loudoun County (8 GP + 2 HOV)
4	28	Roadway	VA 28 / New Braddock Rd Interchange	Construct an interchange at VA 28 and New Braddock Road
5	30	Roadway	VA 28 Widening, Conner Dr to Old Centreville Rd	Widen VA 28 to six lanes between Conner Drive and Old Centreville Road
6	31	Roadway	VA 28 Widening, US 29 to Prince William Cty Line	Widen VA 28 to six lanes between Prince William County Line and U.S. 29
7	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
8	33	Bike/Ped	VA 28 Trail	Construct a shared used path on both sides of VA 28 from Prince William County line to Dulles Toll Road
9	34	Roadway	Godwin Dr Widening	Widen Godwin Dr from four to six lanes between Sudley Rd and VA 28
10	36	Roadway	Sudley Road Widening	Widen Sudley Road from four to six lanes from I-66 to Balls Ford Road
11	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
12	48	Transit	Extend High Capacity Transit to Centreville	Extend High Capacity transit from Metrorail to Centreville Potential modes include LRT, BRT, or improved bus service on corridor between stations. Construction of stations and PNR lots at Centreville, Stringfellow, and Government Center / Fair Oaks, and a station serving the City of Fairfax.
13	52	Roadway	Stone Road Overpass over I-66 from Route 29 to Route 28	Construct 4-lane divided road between Stone Road at Route 29 and New Braddock Road, including bridges over I-66 and Big Rocky Run and a shared use path

**Segment 6-1: I-66/US 29/VRE Manassas — Prince William County Line to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
14	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
15	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
16	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
17	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
18	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
19	214	Roadway	Add NB lane to US 29	Add NB lane to US 29 from I-66 to the entrance to Conway Robinson Memorial State Forest.
20	220	Roadway	Construct VA 234 Bypass Interchange at Balls Ford Rd	Project will provide a new grade separated interchange proposed at Rt. 234-Prince William Parkway and relocated Rt. 621-Balls Ford Road. In addition a new 4-lane facility with raised median will be constructed between Devlin Road and Doane Road
21	226	Roadway	Construct VA 234 Bypass North, I-66 to US 50	Construct VA 234 Bypass North (Bi-County Parkway) from I-66 to US 50. Close US 29 from Pageland Lane to the bridge over Bull Run and close VA 234 Sudley Road from the southern park boundary to the northern park boundary.
22	230	Roadway	Construct/widen New Braddock Road	Construct/widen New Braddock Road from 0/2 lanes to 4 lanes from VA 28 to US 29 at VA 662 (Stone Road).
23	235	Roadway	Construct University Boulevard	Construct four lanes from Progress Court to Sudley Manor Drive



**Segment 6-1: I-66/US 29/VRE Manassas — Prince William County Line to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
24	238	Roadway	Widen Balls Ford Rd, Wellington Rd to Coppermine Dr	Widen Balls Ford Rd to four lanes from Wellington Rd to Coppermine Dr
25	239	Roadway	Widen Catharpin Rd, Heathcote Blvd to John Marshall Highway	Widen Catharpin Rd to four lanes from Heathcote Blvd to John Marshall Highway
26	240	Roadway	Widen Cushing Rd, Balls Ford Rd to I-66	Widen Cushing Rd to four lanes from Balls Ford Rd. to I-66
27	242	Roadway	Widen Devlin Rd, Wellington Rd to Linton Hall Rd	Widen Devlin Rd to four lanes from Wellington Rd to Linton Hall Rd
28	247	Roadway	Construct Haymarket Bypass, VA 29 to US 15	Construct PWC portion of Haymarket Bypass from Old Carolina Rd to US 15
29	248	Roadway	Widen Hornbaker Rd, Wellington Rd to Nokesville Rd	Widen Hornbaker Rd to four lanes from Wellington Rd to Nokesville Rd
30	249	Roadway	Widen I-66, Prince William County	Widen I-66 to eight lanes between Fauquier CL and Antioch Bridge Rd
31	250	Roadway	Widen US 15, Haymarket TL to US 29	Widen US 15 James Madison Highway to four lanes from Haymarket TL to US 29. Project improvements implemented in conjunction with Railroad Overpass.
32	252	Roadway	Widen John Marshall Hgwy, Thoroughfare Rd to US 29	Widen John Marshall Hwy from two to four lanes between Thoroughfare Rd (excluding Town of Haymarket) and Catharpin Rd and from four to six lanes between Catharpin Rd and Lee Hwy
33	253	Roadway	Widen US 29 Lee Highway, US 15 to Virginia Oaks Dr	Widen US 29 Lee Highway, to six lanes between US 15 and Virginia Oaks Drive
34	255	Roadway	Widen McGraws Corner Dr, Thoroughfare Rd to US 29	Widen McGraws Corner Dr to four lanes between Thoroughfare Rd and US 29
35	258	Roadway	Construct North South Rd, University Blvd to Wellington Rd	Construct four lane North South Rd, University Blvd to Wellington Rd
36	260	Roadway	Widen Old Carolina Rd, Heathcote Blvd to US 29	Widen Old Carolina Rd to four lanes, Heathcote Blvd to US 29
37	261	Roadway	Widen Old Centreville Rd, Fairfax CL to Centreville Rd (VA 28)	Widen Old Centreville Rd to four lanes between Fairfax County line and Centreville Rd (VA 28)
38	263	Roadway	Widen Prince William Pkwy, I-66 to Brentsville Rd	Widen Prince William Pkwy to six lanes, I-66 to Brentsville Rd
39	264	Roadway	Widen Prince William Pkwy, Liberia Ave to Hoadly Rd	Widen Prince William Pkwy to six lanes, Liberia Ave to Hoadly Rd
40	266	Roadway	Complete Rollins Ford Rd, Vint Hill Rd to Wellington Rd	Complete four lane Rollins Ford Rd, Linton Hall Rd to Wellington Rd
41	267	Roadway	Construct Station Rd, University Blvd to Balls Ford Rd	Construct four lane Station Rd, University Blvd to Balls Ford Rd

**Segment 6-1: I-66/US 29/VRE Manassas — Prince William County Line to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
42	268	Roadway	Widen Sudley Rd, US 15 to US 29	Widen Sudley Rd to four lanes, US 15 James Madison Highway to US 29 Lee Highway
43	269	Roadway	Widen Sudley Manor Dr, Prince William Pkwy to Sudley Rd	Widen Sudley Manor Dr to six lanes, Prince William Pkwy to Sudley Rd
44	272	Roadway	Widen Thoroughfare Rd, US 15 to McGraws Corner Dr	Widen Thoroughfare Rd to four lanes, US 15 to McGraws Corner Dr
45	273	Roadway	Godwin Drive Extension	Construct four lane extension of Godwin Drive between Sudley Rd and Route 28 between Bull Run and Compton Rd. Construct grade-separated interchanges at Lomond Dr and Sudley Rd
46	277	Roadway	Widen Wellington Blvd, Prince William Pkwy to Godwin Dr	Widen Wellington Road from 2 to 4 lanes between Godwin Dr. and the Prince William Pkwy. and from 2 to 6 lanes between the Prince William Pkwy. and University Blvd.
47	278	Roadway	Widen Liberia Ave, Prince William Pkwy to Centreville Rd (VA 28)	Widen Liberia Ave to six lanes, Prince William Pkwy to Centreville Rd (VA 28)
48	279	Roadway	Widen VA 28, Liberia Ave to Manassas Park North CL	Widen VA 28 to six lanes, Liberia Ave to Manassas Park North CL
49	285	Roadway	VA 234/ Clover Hill Rd Interchange	Construct a grade-separated interchange at VA 234/Prince William Pkwy and Clover Hill Rd
50	298	Transit	Implement new OmniLink service	Implement new OmniLink routes: Innovation-to-Gainesville/Haymarket; Innovation-to-Manassas; Montclair local



**Segment 6-1: I-66/US 29/VRE Manassas — Prince William County Line to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
51	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>PH 1: Increase frequencies to 20-min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>
52	315	Transit	I-66 Corridor Park & Ride Prince William	<p>Construct new park &amp; ride lots along the I-66 corridor in Prince William at *Dominion, ***Innovation, ***James Madison Arrowleaf, ***Linton Hall School, and ***Yorkshire. Expand existing P&amp;R capacity at *Limestone Drive and *Manassas Mall/Sears.</p>
53	326	Transit	Manassas Line Peak Period Service Expansion	<p>Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Purchase additional rolling stock</li> <li>b. Construct/expand VRE equipment storage and maintenance facilities</li> <li>c. Rail Line capacity improvements</li> <li>d. Station/Parking Access improvements</li> <li>e. ITS/TSM improvements.</li> </ul>

**Segment 6-1: I-66/US 29/VRE Manassas — Prince William County Line to Rt. 28**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
54	328	Roadway	Widen Route 28 from 4 -6 lanes from Conner Drive (Manassas/PWC line) to Bull Run Creek (Fairfax County Line)	Widen Route 28 from 4 -6 lanes from Conner Drive (Manassas/PWC line) to Bull Run Creek (Fairfax County Line).
55	329	Roadway	Route 15 Improvements with Railroad Overpass	Project will widen Route 15 from 2 to 4 lanes and build an overpass over the existing Norfolk Southern Railway (NS) B-Line tracks. The project extends about 1000' north of the tracks and extends approximately 1200' south of the tracks
56	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
57	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
58	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
59	347	Roadway	VA-28 Reversible HOV Lanes	Implement reversible HOV lanes on VA-28 between I-66 and the Dulles Toll Road during AM and PM peak periods
60	351	Roadway	Tri-County Parkway	Construct four-lane Tri-County Parkway facility between Godwin Drive extension and I-66 interchange. Construct four lane facility between I-66 and Manassas Battlefield Parkway / Gum Springs Rd.
61	357	Roadway	Braddock Rd Widening, VA-28 to County Line	Widen Braddock Rd to four lanes between VA-28 and the Fairfax County Line
62	358	Roadway	Euclid Avenue Extension	Extend four lane Euclid Avenue north from Prescott Ave to Route 28 south of Bull Run

**Segment 6-2: I-66/US 29/US 50/Orange Silver Line — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	27	Roadway	VA 28 Widening, I-66 to Loudoun	Widen VA 28 to 10 lanes between I-66 and Loudoun County (8 GP + 2 HOV)
2	31	Roadway	VA 28 Widening, US 29 to Prince William Cty Line	Widen VA 28 to six lanes between Prince William County Line and U.S. 29
3	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
4	33	Bike/Ped	VA 28 Trail	Construct a shared used path on both sides of VA 28 from Prince William County line to Dulles Toll Road
5	38	Roadway	Fairfax County Pkwy HOV Widening (Franconia)	Widen Fairfax County Pkwy by adding HOV lanes from Franconia Springfield Pkwy to I-66
6	42	Transit	Fairfax County Pkwy Priority Bus Service	Implement priority bus service on Fairfax County Parkway between Herndon/Monroe Metrorail station and Ft. Belvoir
7	43	Roadway	Route 286 Widening Fairfax County Parkway Widening (VA 123 to US 29)	Widen Fairfax County Parkway from VA 123 (Ox Rd) to US 29 (Lee Highway) from four lanes to six lanes. Construct a grade-separated interchange at the intersection of the Fairfax County Parkway and Popes Head Road, with shared used paths on both sides.
8	44	Roadway	Shirley Gate Road Extension	Extend Shirley Gate Road from Braddock Rd to Fairfax County Parkway
9	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
10	46	Roadway	US 50 Widening, City of Fairfax to Arlington County	Widen US 50 inside the Beltway from 4 to 6 lanes from City of Fairfax to Arlington County. The project would include intersection improvements, including signalization improvements, and pedestrian and bike facilities
11	48	Transit	Extend High Capacity Transit to Centreville	Extend High Capacity transit from Metrorail to Centreville Potential modes include LRT, BRT, or improved bus service on corridor between stations. Construction of stations and PNR lots at Centreville, Stringfellow, and Government Center / Fair Oaks, and a station serving the City of Fairfax.

**Segment 6-2: I-66/US 29/US 50/Orange Silver Line — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	49	Transit	US 29 / US 50 Priority Bus	Implement priority bus service along US 29 and US 50 between Fair Oaks and Washington DC.
13	55	Bike/Ped	US 29 trail	Construct a trail along US 29 from Dixie Hill Rd to EFC Metrorail Station
14	56	Roadway	Widen VA 123, Fairfax to Vienna	Widen VA 123 to six lanes between City of Fairfax and Town of Vienna
15	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
16	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
17	63	Transit	Route 50 Express Bus	Improve Route 50 - Orange Line bus connections.
18	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.
19	71	Transit	Merrifield-Tysons BRT / LRT	Construct enhanced transit service (BRT/LRT) between Fairfax Hospital in Merrifield to Tysons. Includes 6 lanes (4 GP + 2 Transit) on Gallows Rd.
20	95	Roadway	VA 123 Widening, Braddock Rd to Fairfax	Widen VA 123 to six lanes between City of Fairfax and Braddock Rd
21	96	Roadway	Braddock Rd Widening, Ox Road to Fairfax County Pkwy	Widen Braddock Rd to six lanes from Ox Rd to VA 286

**Segment 6-2: I-66/US 29/US 50/Orange Silver Line — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
22	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
23	99	Transit	VA 123 Priority Bus Service	Add bus priority service on VA 123 to serve Tysons.
24	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.
25	104	Transit	Metro station access and capacity improvements	Construction of station access and capacity improvements at: Rosslyn, Pentagon, Vienna, Foggy Bottom, Farragut West, McPherson Square, Metro Center, L'Enfant Plaza, and Union Station. Also includes station area lighting and customer amenities.
26	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}
27	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
28	126	Transit	I-66 / Orange Line Bus Facility Improvements	Expand and improve bus bays, passenger facilities, and bus circulation and access paths at all Orange Line stations and bus centers in the I-66 corridor.
29	134	Roadway	Fairfax Boulevard Multimodal Improvements	Implement multimodal improvements and improve local connections along Fairfax Boulevard. Enhance transit, ped-bike and roadway facilities and infrastructure.



**Segment 6-2: I-66/US 29/US 50/Orange Silver Line — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
30	135	Roadway	Jermantown Rd Multimodal Improvements	Implement multimodal improvements and improve local connections along Jermantown Rd. Enhance transit, ped-bike and roadway facilities and infrastructure. Includes widening of Jermantown Road to four lanes south of the I-66 bridge as well as extension of Government Center Parkway. May include participation with Fairfax County on widening of bridge over I-66.
31	136	Roadway	VA 123 Multimodal Improvements	Implement multimodal improvements, improve intersections and local connections, and improve transit service along VA 123. Enhance transit, ped-bike and roadway facilities and infrastructure.
32	137	Roadway	Old Lee Highway Multimodal Improvements	Implement multimodal improvements along Old Lee Highway. Enhance transit, ped-bike and roadway facilities and infrastructure.
33	138	Bike/Ped	Fairfax Citywide Bike-Ped Access	Improve on- and off-road bike and pedestrian facilities, routes, and infrastructure along and adjacent to City of Fairfax corridors to provide better access to Metrorail and regional trails. Expand bikeshare, bike storage, and signage. Includes the extension of the George Snyder Trail.
34	139	Roadway	Northfax Network Improvements	Improved connections and circulation for all modes in the Northfax node. Improvements to and along Fairfax Boulevard in the vicinity of the Northfax intersection including ped-bike safety, local access, upgraded infrastructure and new routes. Improve vehicular circulation, access and movements in proximity to the Northfax intersection (Routes 29/50/123). Includes extension of University Drive.
35	140	Roadway	Fairfax Circle Improvements	Intersection Improvements at Fairfax Circle to improve vehicular and ped-bike mobility and safety.

**Segment 6-2: I-66/US 29/US 50/Orange Silver Line — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
36	141	Roadway	Northfax Intersection Improvements	Geometric improvements to intersection including extension of a 3rd northbound lane on Route 123 from Route 29/50 to Eaton Place, the addition of a dual left turn from southbound Route 123 to eastbound Route 29/50, the correction of substandard existing lane shifts within the project limits, the extension of turn lanes, and access management improvements where feasible. Also includes a new drainage system, including a major culvert.
37	142	Transit	Transit Enhancements, City of Fairfax	Upgrade and construct transit stops and shelters on CUE routes with improved facilities, design, technology, and/or ped-bike access. Expand transit service and purchase additional buses.
38	198	Transit	Vienna Metro Access Improvements	Improve access to Metro and encourage mass transit use by completing all sidewalks within 1/2 mile of Vienna and Tysons Metrorail stations. Also, provide a trolley or circulator bus along Maple Ave (VA 123) to connect with Vienna Metro station and Metro Silver Line in Tysons. A parking garage would be provided along the route. Includes "Walk to Metro" and "Commercial Transit, Metro Access, and Parking" projects.
39	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
40	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
41	210	Roadway	Widen auxiliary lanes along I-495	Widen auxiliary lanes along various segments of I-495 from north of Hemming Ave Underpass to Georgetown Pike. Reconstruct the I-495 auxiliary lane from VA 7 to I-66
42	215	Roadway	Widen US 29, City of Fairfax to I-495	Widen US 29 from 4 to 6 lanes from Fairfax ECL to I-495.
43	216	Roadway	Widen US 29, VA 665 to Pickwick Rd	Widen US 29 from 4 to 6 lanes from Waples Mill Rd to Pickwick Road



**Segment 6-2: I-66/US 29/US 50/Orange Silver Line — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
44	222	Roadway	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes from VA 267 Dulles Toll Road to I-66.
45	290	Transit	Dunn Loring to Ballston priority bus	Through enhancement of Metrobus 2A service, provide frequent service on Lee Highway and Washington Blvd from Dunn Loring Metro in Fairfax County through the City of Falls Church, East Falls Church Metro and Washington Blvd to Ballston Metro.
46	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
47	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.
48	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
49	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
50	347	Roadway	VA-28 Reversible HOV Lanes	Implement reversible HOV lanes on VA-28 between I-66 and the Dulles Toll Road during AM and PM peak periods
51	348	Transit	Reston Express Bus	Implement Express bus service between Reston Town Center and Fairfax Center via Reston Parkway and West Ox Rd
52	350	Transit	US 29 BRT	Implement BRT service on US 29 Lee Highway in a dedicated lane where facility is six lanes.
53	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395
54	357	Roadway	Braddock Rd Widening, VA-28 to County Line	Widen Braddock Rd to four lanes between VA-28 and the Fairfax County Line

**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	1	Transit	VA 7 Transit: Tysons - Mark Center	Construct Bus Rapid Transit line along VA 7 between Tysons and Mark Center with a connection to East Falls Church Metrorail Station
2	2	Roadway	VA 7 Widening, VA 123 to I-495	Widen VA 7 from six to eight lanes from VA 123 (Chain Bridge Rd) to I-495 (Capital Beltway)
3	3	Roadway	VA 7 Widening, I-495 to I-66	Widen VA 7 from four to six lanes from I-495 to I-66
4	4	Roadway	VA 7 Widening, Seven Corners to Bailey's Crossroads	Widen VA 7 from four to six lanes between Seven Corners and Bailey's Crossroads
5	9	Transit	Tysons Circulator	Implement Tysons Circulator System
6	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
7	19	Roadway	Seven Corners Ring Road Improvements	Construct ring road and improve interchange at Seven Corners to reduce congestion on Route 7, improve access between Seven Corners / Falls Church / Bailey's Crossroads, and facilitate redevelopment of the area. Improve safety, navigation of vehicles and cyclists/pedestrians in and throughout the area.
8	22	Bike/Ped	Bike Lanes Route 7 - Alexandria to Seven Corners	Construct protected bike lanes on both sides of VA 7 between Alexandria and Seven Corner. Connect with City of Falls Church's bicycle network.
9	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
10	46	Roadway	US 50 Widening, City of Fairfax to Arlington County	Widen US 50 inside the Beltway from 4 to 6 lanes from City of Fairfax to Arlington County. The project would include intersection improvements, including signalization improvements, and pedestrian and bike facilities
11	47	Roadway	Clarendon Circle Multimodal Improvements	Construct multimodal improvements at the intersection of Wilson Blvd, Washington Blvd, and Clarendon Blvd. Widen Washington Blvd from 3 to 4 lanes from Wilson to Kirkwood

**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	49	Transit	US 29 / US 50 Priority Bus	Implement priority bus service along US 29 and US 50 between Fair Oaks and Washington DC.
13	50	Transit	East Falls Church Metrorail Station Second Entrance	Planning, design, and construction of a full second entrance to EFC station, including new bus bays, a western mezzanine, and bicycle and pedestrian connections
14	51	Transit	Ballston-MU Additional Entrance	Construct new entrance and pedestrian access on the western side of the Ballston Metrorail station. Project includes expanded bus bays and passenger facilities.
15	53	Transit	Courthouse Metrorail station access	Improve vertical access to Courthouse Metrorail station
16	54	Roadway	Falls Church Multimodal Improvements	Multimodal Improvements in the City's state-recognized revitalization areas (1) West Broad Street, (2) Washington Street Corridor, and (3) East End. These areas are all included in the COG-recognized Falls Church activity center. Improvements will include improved intersection geometry and signalization, improved pedestrian connectivity and accessibility, improved transit stops, and improved bicycle access
17	55	Bike/Ped	US 29 trail	Construct a trail along US 29 from Dixie Hill Rd to EFC Metrorail Station
18	57	Transit	Ballston Multimodal Improvements	Construct improvements to bus shelters, bus bays, sidewalks, landscaping, and bicycle parking
19	58	Transit	East Falls Church Metrorail Station Multimodal Improvements	Construct Multimodal improvements, including new/restructured bus bays at the current station, bicycle and pedestrian connections, improve access and signalization on N Sycamore Street and Washington Blvd., and install Bikeshare stations. Improvements per the EFC Vision Plan
20	59	Transit	Lee Highway bus improvements	Improved local ART bus service on US 29 between Rosslyn and EFC.

**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
21	60	Bike/Ped	Arlington Regional Trail Network	<p>Provide dedicated bike facilities, bikesharing and key sidewalk improvements on north-south corridors in Arlington to connect major east-west corridors with each other. Example corridors includes Carlin Springs Road, Walter Reed Drive/Fillmore Street, Harrison St, Washington Blvd, Rt 110, and others. Network also includes:</p> <ul style="list-style-type: none"> <li>-Trail parallel to Washington Blvd between Arlington Blvd and Columbia Pike</li> <li>-Rehab of Custis Trail to current VDOT shared used path design and construction specifications in Rosslyn</li> <li>-Extension of Custis Trail north of I-66 between Kennebec and Quantico</li> <li>-Long Bridge Park Esplanade extension to Mt Vernon Trail</li> <li>-Arlington Blvd trail</li> <li>-Theodore Roosevelt Bridge connection to Mt Vernon Trail and Marine Corps War Memorial</li> <li>-Dedicated cycling facility along the Route 50 service road (south side), between N. Rhodes St. and N. Meade St.</li> <li>-Expansion of Arlington bicycle commuter routes: Bluemont Junction Trail, Custis</li> </ul>
22	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
23	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
24	63	Transit	Route 50 Express Bus	Improve Route 50 - Orange Line bus connections.

**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
25	71	Transit	Merrifield-Tysons BRT / LRT	Construct enhanced transit service (BRT/LRT) between Fairfax Hospital in Merrifield to Tysons. Includes 6 lanes (4 GP + 2 Transit) on Gallows Rd.
26	79	Transit	West End Transitway	Construct a four-mile segment of the dedicated bus lanes between the Van Dorn Metro station and Arlington County. This project will also provide pedestrian and bike facilities in the corridor
27	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
28	97	Transit	Columbia Pike Priority Transit Network (PrTN)	Provide priority transit service from Skyline to Crystal City via Pentagon City, including limited-stop bus service, improved headways, and 24 transit stations.
29	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.

**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
30	101	Bike/Ped	Columbia Pike Corridor urban bike/ped network	Improve bicycle and pedestrian infrastructure in and around the Columbia Pike corridor, including bikeways, bikesharing, and key sidewalk improvements, to convert SOV trips to, within, and between activity center areas from car to bike/pedestrian. Includes parallel bike routes along 9th St, 11th St, and 12th in the vicinity of Columbia Pike.
31	102	Bike/Ped	Arlington TDM Package	<p>Improve and expand the commuter assistance and other programs provided by Arlington County Commuter Services. Includes new commuter stores and next generation IT services, implementation of transportation system management and communication upgrade throughout the County, and improvements to traveler information via creation or expansion of informational, wayfinding, alert, or real-time signs providing information on multimodal transportation options.</p> <p>Develop a system of coordinated mobility hubs along major corridors to fully integrate transit, bikesharing, carsharing, ridesharing, pedestrians, bicycling, ride hailing and other shared use services. Develop, coordinate, implement, and/or expand shared-ride and ride-hailing services for first mile/last mile connections to transit and mobility hubs as well as to activity centers, parking, and pick-up hotspots. Includes support for autonomous vehicles, casual carpooling, on-demand services</p>



**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
32	103	ITS/ICM	Arlington ITS Projects	Implement intelligent transportation systems and adaptive traffic control system on regional corridors within Arlington County, including: - Enhancement of Traffic System and Technology to a Smart Traffic Signal system; - Installation of Intelligent Transportation System (ITS) and corresponding Adaptive Traffic Control System program on US 29 Lee Highway to better manage traffic flow. Includes additional Bluetooth devices, count stations, CCTV cameras, and FLIR detectors and upgraded signals for better-timed connection with I-66; - Reconstruction of traffic signals to meet current standards, including upgrade from span wire to mast arm
33	104	Transit	Metro station access and capacity improvements	Construction of station access and capacity improvements at: Rosslyn, Pentagon, Vienna, Foggy Bottom, Farragut West, McPherson Square, Metro Center, L'Enfant Plaza, and Union Station. Also includes station area lighting and customer amenities.
34	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}
35	106	Transit	Metrorail Blue Line Core Realignment	Create a new alignment for Blue Line from Northern Virginia into the District of Columbia. Add a second Rosslyn station with an underground passageway to Orange and Silver line station.
36	107	Transit	Expansion of Metrobus and Fairfax Connector Bus Services	Increase bus frequency and service during off-peak periods and weekends; add new routes.



**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
37	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
38	111	Bike/Ped	Rosslyn-Ballston Corridor Urban Ped/Bike Network	Improve bicycle and pedestrian infrastructure in and around the Rosslyn-Ballston Corridor, including bikeways, bikesharing, and key sidewalk improvements, to convert SOV trips to, within, and between Metro station areas from car to bike/pedestrian, and to enable access to/from Metro stations to high-density housing and job centers. Includes a designated bicycle lane along N. Lynn St. and along Fort Myer Drive between Lee Highway at Rosslyn Circle and Fairfax Drive south of Arlington Blvd.
39	114	Transit	Metrorail Pocket Track Improvements	Construct new OR/SV junction infrastructure and pocket track at East Falls Church or West Falls Church. Improve or add pocket tracks to provide flexibility for short-lining, maintenance and crossovers.
40	118	Bike/Ped	East Falls Church Bikeshare Connections	Install up to 24 bike-share stations along Route 29, Route 7, Sycamore St, Roosevelt St, and W&OD Trail in Falls Church.
41	122	Transit	ART Service Restructuring and Expansion	Purchase of buses in support of Arlington Transit (ART) service restructuring and expansion. Includes implementation of priority bus service on Glebe Road between Marymount University and Potomac Yard Metro via Ballston.
42	125	Transit	Rosslyn Station Bus Transit Center	Expand capacity at existing Rosslyn Transit Center
43	127	Transit	Blue and Yellow Line Bus Facility Improvements	Expand and improve bus bays, passenger facilities, and bus circulation and access paths at all Yellow and Blue Line stations and transit centers in the I-395/ US-1 corridor
44	132	Transit	Enhanced Bus Service - Falls Church	Enhance bus service along US 29 and VA 7 in the City of Falls Church: including all day service, 15 minute frequency, and bus shelters with real-time information

**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
45	133	Bike/Ped	Enhance regional bike routes (W& OD) - Falls Church	Enhance regional bike routes (W& OD): including separate trails for walking and biking, updated crossings to increase safety, and lighting to keep trail open all year
46	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.
47	203	Roadway	I-66 Spot Improvements - Spot 3	Construct an auxiliary lane connecting on-ramp from Lee Highway to off-ramp on N Glebe Rd on westbound I-66
48	210	Roadway	Widen auxiliary lanes along I-495	Widen auxiliary lanes along various segments of I-495 from north of Hemming Ave Underpass to Georgetown Pike. Reconstruct the I-495 auxiliary lane from VA 7 to I-66
49	212	Roadway	Widen Dulles Airport Access Road	Widen Dulles Airport Access Road from Dulles Airport to VA 123
50	215	Roadway	Widen US 29, City of Fairfax to I-495	Widen US 29 from 4 to 6 lanes from Fairfax ECL to I-495.
51	232	Roadway	Widen Magarity Road	Widen Magarity Road from 2 to 4 lanes from VA 7 to Great Falls Street.
52	290	Transit	Dunn Loring to Ballston priority bus	Through enhancement of Metrobus 2A service, provide frequent service on Lee Highway and Washington Blvd from Dunn Loring Metro in Fairfax County through the City of Falls Church, East Falls Church Metro and Washington Blvd to Ballston Metro.
53	291	Transit	Arlington mobility hubs	Develop a system of coordinated mobility hubs along major corridors to fully integrate transit, bikesharing, carsharing, ridesharing, pedestrians, bicycling, ride hailing and other shared use services;
54	292	Transit	Off-vehicle fare collection	Develop a system of off board fare collections for ART and WMATA buses.

**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
55	294	Bike/Ped	Lee Highway Multimodal Improvements	The project expands the multi-modal transportation capacity and safety in the Lee Highway corridor, providing viable options to move more people without increasing the volume of single-occupant vehicles. Includes addition of bicycle facilities along US 29 corridor and reconstruction of US 29 from North Quincy St to North Kenmore St.
56	295	Roadway	Roosevelt Bridge HOT lanes	DC project to implement HOT on Roosevelt Bridge
57	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac-Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
58	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.
59	333	Transit	East Falls Church Metro to Seven Corners Transit Boulevard	Transit and ped/bike connections along Sycamore and Roosevelt with a bridge overpass connecting to planned redevelopment in Seven Corners (shown in Fairfax County comp plan, page 113)
60	334	Transit	Falls Church Metro Station Access	Multimodal Access Improvements for the East Falls Church and West Falls Church Metro stations including pedestrian access, bicycle access and bike-share stations, and bus access.
61	335	Bike/Ped	Regional Bike Connections - Falls Church	On-street bike facilities to connect the City's bicycle network to the W&OD, Arlington County's network and Fairfax County's network as called for in the City's Bicycle Master Plan
62	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.

**Segment 6-3: I-66/US 29/US 50/Orange Silver Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
63	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
64	349	Transit	Rosslyn-Ballston Corridor Priority Bus	Implement priority bus service on Fairfax Drive and Wilson Blvd between Ballston and Rosslyn.
65	350	Transit	US 29 BRT	Implement BRT service on US 29 Lee Highway in a dedicated lane where facility is six lanes.
66	352	Transit	ART Service Improvements	Increase ART service on crowded corridors in Arlington County, supported by capacity increases at Heavy Maintenance / Bus Parking facilities
67	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395

**Segment 7-1: I-495 — American Legion Bridge to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	1	Transit	VA 7 Transit: Tysons - Mark Center	Construct Bus Rapid Transit line along VA 7 between Tysons and Mark Center with a connection to East Falls Church Metrorail Station
2	2	Roadway	VA 7 Widening, VA 123 to I-495	Widen VA 7 from six to eight lanes from VA 123 (Chain Bridge Rd) to I-495 (Capital Beltway)
3	3	Roadway	VA 7 Widening, I-495 to I-66	Widen VA 7 from four to six lanes from I-495 to I-66
4	9	Transit	Tysons Circulator	Implement Tysons Circulator System
5	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
6	15	Roadway	VA 123 Widening, VA 7 to Old Courthouse Rd	Widen VA 123 to six lanes from VA 7 to Old Courthouse Rd
7	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
8	49	Transit	US 29 / US 50 Priority Bus	Implement priority bus service along US 29 and US 50 between Fair Oaks and Washington DC.
9	54	Roadway	Falls Church Multimodal Improvements	Multimodal Improvements in the City's state-recognized revitalization areas (1) West Broad Street, (2) Washington Street Corridor, and (3) East End. These areas are all included in the COG-recognized Falls Church activity center. Improvements will include improved intersection geometry and signalization, improved pedestrian connectivity and accessibility, improved transit stops, and improved bicycle access
10	55	Bike/Ped	US 29 trail	Construct a trail along US 29 from Dixie Hill Rd to EFC Metrorail Station
11	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.

**Segment 7-1: I-495 — American Legion Bridge to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
13	63	Transit	Route 50 Express Bus	Improve Route 50 - Orange Line bus connections.
14	67	Transit	American Legion Bridge High Capacity Transit	Construct high capacity surface transit (express bus service) from Fairfax County to Montgomery County via the American Legion Bridge and Tysons Corner.
15	69	Roadway	I-495 HOT Lanes	Implement HOT lanes on I-495 between American Legion Bridge and VA-267
16	71	Transit	Merrifield-Tysons BRT / LRT	Construct enhanced transit service (BRT/LRT) between Fairfax Hospital in Merrifield to Tysons. Includes 6 lanes (4 GP + 2 Transit) on Gallows Rd.
17	97	Transit	Columbia Pike Priority Transit Network (PrTN)	Provide priority transit service from Skyline to Crystal City via Pentagon City, including limited-stop bus service, improved headways, and 24 transit stations.
18	99	Transit	VA 123 Priority Bus Service	Add bus priority service on VA 123 to serve Tysons.
19	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.
20	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}



**Segment 7-1: I-495 — American Legion Bridge to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
21	107	Transit	Expansion of Metrobus and Fairfax Connector Bus Services	Increase bus frequency and service during off-peak periods and weekends; add new routes.
22	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
23	132	Transit	Enhanced Bus Service - Falls Church	Enhance bus service along US 29 and VA 7 in the City of Falls Church: including all day service, 15 minute frequency, and bus shelters with real-time information
24	133	Bike/Ped	Enhance regional bike routes (W& OD) - Falls Church	Enhance regional bike routes (W& OD): including separate trails for walking and biking, updated crossings to increase safety, and lighting to keep trail open all year
25	198	Transit	Vienna Metro Access Improvements	Improve access to Metro and encourage mass transit use by completing all sidewalks within 1/2 mile of Vienna and Tysons Metrorail stations. Also, provide a trolley or circulator bus along Maple Ave (VA 123) to connect with Vienna Metro station and Metro Silver Line in Tysons. A parking garage would be provided along the route. Includes "Walk to Metro" and "Commercial Transit, Metro Access, and Parking" projects.
26	204	Roadway	Greensboro Drive Extension	Extend Greensboro Drive from Spring Hill Road to Tyco Road
27	205	Roadway	I-495 Overpass Tysons Corner	Construct I-495 overpass at Tysons Corner Center
28	206	Roadway	Cleveland Ramps	Reconstruct VA 267 / VA 123 interchange to provide connections to a new street grid
29	207	Roadway	VA 123 / Lewinsville Rd / Great Falls St Underpass	Construct a grade-separated underpass at the intersection of VA 123 / Lewinsville Rd / Great Falls St
30	208	Roadway	VA 123 / VA 7 Interchange	Reconstruct interchange between Route 7 and Route 123 in Tysons.
31	209	Roadway	VA 123 Modified intersection/displaced left turns	Modify intersections and construct displaced left turns on VA 123 between International Drive to Dulles Toll Road



**Segment 7-1: I-495 — American Legion Bridge to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
32	210	Roadway	Widen auxiliary lanes along I-495	Widen auxiliary lanes along various segments of I-495 from north of Hemming Ave Underpass to Georgetown Pike. Reconstruct the I-495 auxiliary lane from VA 7 to I-66
33	211	Roadway	Reconstruct I-495 / VA-267 Interchange	Relocate I-495/VA 267 Interchange Flyover Ramp: Eastbound Dulles Airport Access Highway to northbound general purpose. Provide SB HOT to EB HOV & EB Dulles Toll Road to NB HOT movements. Widen EB Dulles Toll Road ramp to 2 NB lanes Construct I-495/VA 267 Interchange ramp from SB I-495 to WB Dulles Airport Access Highway.
34	212	Roadway	Widen Dulles Airport Access Road	Widen Dulles Airport Access Road from Dulles Airport to VA 123
35	219	Roadway	Widen VA 123 Chain Bridge Road, VA 7 to I-495	Widen VA 123 Chain Bridge Road from 6 to 8 lanes from VA 7 Leesburg Pike to I-495.
36	225	Roadway	Construct Collector-Distributor Road (EB/WB) that parallels Dulles Toll Rd	Construct Collector-Distributor Road (EB/WB) that parallels Dulles Toll Rd from Wiehle Ave to Spring Hill Road.
37	231	Roadway	Boone Boulevard Extension	Construct Boone Boulevard Extension (4 lanes) from VA 123 Chain Bridge Road to Ashgrove Lane.
38	232	Roadway	Widen Magarity Road	Widen Magarity Road from 2 to 4 lanes from VA 7 to Great Falls Street.
39	290	Transit	Dunn Loring to Ballston priority bus	Through enhancement of Metrobus 2A service, provide frequent service on Lee Highway and Washington Blvd from Dunn Loring Metro in Fairfax County through the City of Falls Church, East Falls Church Metro and Washington Blvd to Ballston Metro.
40	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.
41	338	Roadway	I-495 HOT Lanes - American Legion Bridge	Extend I-495 Capital Beltway HOT lanes over American Legion Bridge until I-270 spur in Maryland

**Segment 7-1: I-495 — American Legion Bridge to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
42	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
43	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
44	350	Transit	US 29 BRT	Implement BRT service on US 29 Lee Highway in a dedicated lane where facility is six lanes.
45	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395

**Segment 7-2: I-495 — I-66 to I-395**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
2	46	Roadway	US 50 Widening, City of Fairfax to Arlington County	Widen US 50 inside the Beltway from 4 to 6 lanes from City of Fairfax to Arlington County. The project would include intersection improvements, including signalization improvements, and pedestrian and bike facilities
3	49	Transit	US 29 / US 50 Priority Bus	Implement priority bus service along US 29 and US 50 between Fair Oaks and Washington DC.
4	55	Bike/Ped	US 29 trail	Construct a trail along US 29 from Dixie Hill Rd to EFC Metrorail Station
5	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
6	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
7	63	Transit	Route 50 Express Bus	Improve Route 50 - Orange Line bus connections.
8	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.

**Segment 7-2: I-495 — I-66 to I-395**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
9	68	Roadway	Little River Turnpike Widening	Widen Little River Turnpike (VA 236) from 4 to 6 lanes between City of Fairfax and I-395
10	70	Roadway	I-495 HOV Lanes	Implement HOV lanes on I-495 between I-395 and the Woodrow Wilson Bridge
11	71	Transit	Merrifield-Tysons BRT / LRT	Construct enhanced transit service (BRT/LRT) between Fairfax Hospital in Merrifield to Tysons. Includes 6 lanes (4 GP + 2 Transit) on Gallows Rd.
12	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
13	97	Transit	Columbia Pike Priority Transit Network (PrTN)	Provide priority transit service from Skyline to Crystal City via Pentagon City, including limited-stop bus service, improved headways, and 24 transit stations.
14	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
15	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.

**Segment 7-2: I-495 — I-66 to I-395**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
16	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}
17	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
18	110	Transit	South County Feeder Bus Service	Improve service levels on bus routes serving Richmond Highway, Kingstowne, and Springfield
19	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
20	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.
21	210	Roadway	Widen auxiliary lanes along I-495	Widen auxiliary lanes along various segments of I-495 from north of Hemming Ave Underpass to Georgetown Pike. Reconstruct the I-495 auxiliary lane from VA 7 to I-66
22	215	Roadway	Widen US 29, City of Fairfax to I-495	Widen US 29 from 4 to 6 lanes from Fairfax ECL to I-495.
23	290	Transit	Dunn Loring to Ballston priority bus	Through enhancement of Metrobus 2A service, provide frequent service on Lee Highway and Washington Blvd from Dunn Loring Metro in Fairfax County through the City of Falls Church, East Falls Church Metro and Washington Blvd to Ballston Metro.
24	293	Transit	ART Bus Parking and Heavy Maintenance Facility	Construct a bus heavy maintenance facility for Arlington Transit (ART) buses and provide additional spaces for ART bus parking.

**Segment 7-2: I-495 — I-66 to I-395**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
25	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
26	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20 min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>



**Segment 7-2: I-495 — I-66 to I-395**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
27	326	Transit	Manassas Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
28	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.
29	336	Roadway	Braddock Road Intersection Improvements: Guinea Road to Ravensworth Road	Task Force voted to improve selected intersection only from Guinea Road to Ravensworth Road. Project includes access mgmt, intersection improvements, signalization, and pedestrian improvements
30	339	ITS/ICM	I-95 ITS/ICM Improvements	Implement intelligent transportation systems, adaptive traffic control, and hard shoulder lanes on I-95
31	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
32	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
33	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
34	350	Transit	US 29 BRT	Implement BRT service on US 29 Lee Highway in a dedicated lane where facility is six lanes.
35	354	Roadway	I-495 Express Lanes - Springfield to Wilson Bridge	Extend I-495 Express Lanes from Springfield across Wilson Bridge into Maryland
36	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395



**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
2	22	Bike/Ped	Bike Lanes Route 7 - Alexandria to Seven Corners	Construct protected bike lanes on both sides of VA 7 between Alexandria and Seven Corner. Connect with City of Falls Church's bicycle network.
3	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
4	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
5	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
6	64	Roadway	Van Dorn St - Franconia Rd Interchange	Construct interchange at VA 613 (Van Dorn Street) and VA 644 (Franconia Road)
7	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.

**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
8	66	Transit	Wilson Bridge High Capacity Transit	Extend high capacity surface transit from Metrorail Yellow Line in Alexandria to the Green Line in Prince George's County. Related to I-495 priority bus service CLRP bus service project. Potential modes include LRT, BRT, or improved bus service on corridor between stations.
9	70	Roadway	I-495 HOV Lanes	Implement HOV lanes on I-495 between I-395 and the Woodrow Wilson Bridge
10	78	Transit	DASH Transit Service Enhancements and Expansion	DASH Transit Service Enhancements: including new cross-town services and funding for additional buses to expand service on existing and new routes, circulators and trolleys within and between activity centers and expand bus storage and maintenance facilities; also includes transit stop improvements (bus shelters, real time information signs, bus stop benches, pads for ADA); upgrade to new and/or upgraded regional fare system including new fare collection technology; Provide transit service connection between Eisenhower Metrorail Station and King Street Metrorail Station; Provide transit service connection between Van Dorn Metrorail Station and the Landmark Mall vicinity; Provide east-west transit service between Braddock Rd Metrorail Station and Old Town / King St. Metrorail Station .
11	79	Transit	West End Transitway	Construct a four-mile segment of the dedicated bus lanes between the Van Dorn Metro station and Arlington County. This project will also provide pedestrian and bike facilities in the corridor

**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	83	Transit	King Street Metro-Alexandria Union Station Improvements	Implement multimodal improvements at the King Street Metro station including improved access to parking lot and bus facilities, construction of new shelters, construction of additional bus bays, and a planned transit store. Construction of a new pedestrian tunnel between Alexandria Union Station and the King Street Metrorail station to include elevators and elimination of existing at grade crossing. Pedestrian tunnel project also includes improvements to the east platform including lengthening the platform, ADA improvements, a new canopy and a stairway and elevator connection to the pedestrian tunnel. Improvements to the east platform will increase freight, commuter, and passenger rail operations within and through the City of Alexandria and allow for VRE to utilize the east platform for revenue service. Project also include other improvements at Alexandria Union Station.
13	86	Bike/Ped	Alexandria Bike and Ped Trails Construction and Reconstruction	Reconstruct Holmes Run Trail from North Ripley Street to I-395; Construct trails along local streets in the Beauregard Street and Van Dorn Street corridor, this facility will provide a north-south connection to the City's Holmes Run Trail, running east west, and connecting bicycle users to Mark Center corridor; Construct pedestrian and bicycle bridge over Holmes Run at Morgan St; Implement and construct projects in the City's Ped Bike Plan; Construct bicycle improvements along Royal St between Jones Point and Bashford St, include signage, traffic calming

**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
14	89	Transit	US 1 BRT	Construct along US 1 BRT with stations at Beacon Hill, Hybla Valley, Fort Belvoir, Penn Daw, Pohick Rd, Woodlawn, and South County Government and with transit transfer centers at Kingman Rd and Fort Belvoir. Includes US 1 widening between VA 235 and I-495.
15	90	Transit	Fredericksburg Line Rail Capacity Improvements	Add a third track between AF and the VRE Crossroads Yard south of Fredericksburg.
16	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
17	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
18	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.

**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
19	103	ITS/ICM	Arlington ITS Projects	Implement intelligent transportation systems and adaptive traffic control system on regional corridors within Arlington County, including: - Enhancement of Traffic System and Technology to a Smart Traffic Signal system; - Installation of Intelligent Transportation System (ITS) and corresponding Adaptive Traffic Control System program on US 29 Lee Highway to better manage traffic flow. Includes additional Bluetooth devices, count stations, CCTV cameras, and FLIR detectors and upgraded signals for better-timed connection with I-66; - Reconstruction of traffic signals to meet current standards, including upgrade from span wire to mast arm
20	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}
21	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
22	110	Transit	South County Feeder Bus Service	Improve service levels on bus routes serving Richmond Highway, Kingstowne, and Springfield
23	113	ITS/ICM	Alexandria ITS Projects	Funding for transportation technologies to improve system efficiencies in the City of Alexandria, Real-Time Adaptive Control and Data Management System - Build out and improve Traffic Signal System with fiber-optics; transit signal priority

**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
24	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
25	116	Transit	Implement integrated regional rail service / VRE-MARC run-through service	Implement run-through service by integrating intercity rail service with MARC and AMTRAK
26	127	Transit	Blue and Yellow Line Bus Facility Improvements	Expand and improve bus bays, passenger facilities, and bus circulation and access paths at all Yellow and Blue Line stations and transit centers in the I-395/ US-1 corridor
27	193	Transit	Alexandria Bus Network ITS	Install Automatic Vehicle Location (AVL) technology on DASH bus to provide real-time arrival info, computer-aided dispatch, automated passenger counters (APC) and automated garage mapping system.
28	194	Transit	Landmark Transit Station Improvements	Construct a transit center on the Landmark Mall site, construct transit commuter hub or kiosk at the future West End Transit Center
29	195	Roadway	Arlandria/Del Ray/ Lynhaven/Potomac Yard Roadway, Bike/Ped, Improvements	Traffic improvements for the intersection of Mt Vernon Ave and E/W Glebe Rd, including signalization, accommodation for pedestrians and turn lane channelization. Construct improvements at Mt Vernon/Four Mile Rd intersection, including ped/bike improvements; Construct bike/ped bridge over four mile run between Commonwealth Ave and Eads St; Mt Vernon Ave/Russell Rd intersection safety improvements to accommodate pedestrian and bicyclists, may entail intersection and parking configuration redesign. Construct a pedestrian/bicycle link from the Potomac Yard Trail to connect to the Four Mile Run trail on the south side of Four Mile Run, and to the Mt. Vernon Trail; Oakville Triangle improvement projects



**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
30	196	Roadway	West End Alexandria Roadway Improvements	Construct a multimodal bridge from Van Dorn Metro station to Pickett Street; Extend Library Ln North to Connect with Van Dorn St; ellipse at Beauregard and Seminary; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; add protected, permissive left turn lane along NB and SB Van Dorn; Widen Van Dorn St Bridge over Duke St to accommodate pedestrians; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; Construct new roadway along Fairfax County Line to connect Edsall Rd, S Pickett St, Farrington Ave; Intersection improvements along Van Dorn Street at Eisenhower, Edsall, Pickett; Straightening Eisenhower; New High Street Addition and Bridge as part of Alexandria's Landmark Van Dorn Area Plan
31	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.
32	202	Transit	Metro Station Improvements within the City of Alexandria	Redesign kiss-and-ride and reconfigure bus loading area to accommodate West End Transitway at the Van Dorn Metrorail Station and existing and future developments within the Eisenhower West Small Area Plan. Improvements to the Eisenhower Ave Metrorail Station to accommodate East Eisenhower development, including renovation of existing bus loop, new pedestrian plaza, new bus shelter canopies, and real-time bus arrival info displays.
33	227	Roadway	Widen Eisenhower Avenue	Widen Eisenhower Avenue from 4 to 6 lanes from Mill Road to Holland Lane.
34	229	Roadway	Widen Telegraph Road	Widen Telegraph Road from two lanes to three and four lanes (total) at various segments between Beulah Street and Franconia Road.



**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
35	236	Roadway	Reconstruct I-95 interchange at VA 613 Van Dorn Street	Reconstruct I-95 interchange at VA 613 Van Dorn Street.
36	293	Transit	ART Bus Parking and Heavy Maintenance Facility	Construct a bus heavy maintenance facility for Arlington Transit (ART) buses and provide additional spaces for ART bus parking.
37	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac-Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
38	299	Transit	VRE Alexandria-DC Rail Capacity Improvements	Construct fourth track LE to VA Construct fourth track RO to AF Alexandria track 1 access/ Slater's Lane crossover Construct Washington Union Station station/access improvements Construct VRE L'Enfant station/access improvements Construct VRE Crystal City station/access improvements
39	300	Transit	VRE Alexandria Station Improvements	Improve multimodal connectivity and accessibility at the Alexandria Union Station - King Street Metro station through construction of a pedestrian tunnel between the two stations; platform expansion and access improvements at VRE station

**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
40	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20 min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>

**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
41	324	Transit	Fredericksburg Line Service Expansion	Implement VRE service improvements on the Fredericksburg line to reduce headways to 20 min in peak period. In support of this improvement: a. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment). b. Construct/expand VRE equipment storage and maintenance facilities in Fredericksburg and midday storage in Washington, D.C. c. Construct station/platform, parking and access improvements at VRE Fredericksburg Line stations d. Improve information sharing through ITS/TSM enhancements for improved communications.
42	325	Transit	Fredericksburg Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
43	326	Transit	Manassas Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
44	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
45	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.

**Segment 7-3: I-495 — I-95 to Woodrow Wilson Bridge**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
46	339	ITS/ICM	I-95 ITS/ICM Improvements	Implement intelligent transportation systems, adaptive traffic control, and hard shoulder lanes on I-95
47	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
48	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
49	343	Transit	VRE Express Service - Fredericksburg Line	Implement peak period express service on VRE Fredericksburg Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Spotsylvania, Leeland Rd, Woodbridge, Alexandria, Crystal City, L'Enfant, and Union Station
50	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
51	353	Transit	Van Dorn Intermodal Facility	Construct Intermodal facility in the vicinity of Van Dorn Metro station to facilitate transfers between Metrorail, West End Transitway, and local transit service.
52	354	Roadway	I-495 Express Lanes - Springfield to Wilson Bridge	Extend I-495 Express Lanes from Springfield across Wilson Bridge into Maryland
53	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395
54	356	Transit	MARC / VRE Crossover Service	Implement MARC Crossover service to Alexandria and points south and west and VRE Crossover service to destinations including New Carrollton, College Park, and points north via Union Station during AM and PM peak hours

**Segment 8-1: I-95/US 1/VRE Fredericksburg — Stafford County Line to Fairfax County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	35	Roadway	Prince William Parkway Widening at I-95	Widen Prince William Parkway to six lanes between the I-95 on / off ramps
2	72	Roadway	US 1 Widening, Joplin Rd to Russell Rd	Widen US 1 from four six lanes from Joplin Rd to Russell Rd
3	81	Transit	High Capacity Transit Extension to Potomac Mills	Extend high capacity surface transit from Springfield to Potomac Mills. Potential modes include LRT, BRT, or improved bus service on corridor between stations**. Potomac Mills to serve as a park-ride lot.
4	87	Roadway	East Potomac River Crossing	Construct Eastern Potomac Crossing from I-95 to US 301 in Maryland
5	88	Roadway	Widen/Relocate US 1 in Town of Dumfries	Widen US 1 (Fralely Blvd) to six lanes between Brady's Hill Rd and Dumfries Rd (VA 234). Phase I includes widening to 4 lanes along current northbound alignment.
6	89	Transit	US 1 BRT	Construct along US 1 BRT with stations at Beacon Hill, Hybla Valley, Fort Belvoir, Penn Daw, Pohick Rd, Woodlawn, and South County Government and with transit transfer centers at Kingman Rd and Fort Belvoir. Includes US 1 widening between VA 235 and I-495.
7	90	Transit	Fredericksburg Line Rail Capacity Improvements	Add a third track between AF and the VRE Crossroads Yard south of Fredericksburg.

**Segment 8-1: I-95/US 1/VRE Fredericksburg — Stafford County Line to Fairfax County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
8	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
9	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
10	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.
11	217	Roadway	Widen VA 123, Annapolis Way to US 1	Widen VA 123 from 4 to 6 lanes from US 1 to Annapolis Way. Construct interchange at US 1 and VA 123 Gordon Blvd. Construct extension of Belmont Bay Drive from US 1 to Heron's View Way
12	237	Roadway	Widen eastbound VA 619 Joplin Road	Widen eastbound VA 619 Joplin Road from 2 to 4 lanes from the I-95 ramp to US 1.
13	241	Roadway	Widen Dale Blvd, US 1 to Benita Fitzgerald Dr	Widen Dale Blvd to six lanes from US 1 to Benita Fitzgerald Dr
14	243	Roadway	Widen Dumfries Rd from Brentsville Road to Country Club Dr	Widen Dumfries Rd to six lanes from Brentsville Rd to Country Club Dr.
15	244	Roadway	Widen Gordon Blvd, Fairfax CL to Express Dr/Belmont Bay Dr	Widen Gordon Blvd to six lanes from Fairfax County Line to Express Dr/Belmont Bay Dr



**Segment 8-1: I-95/US 1/VRE Fredericksburg — Stafford County Line to Fairfax County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
16	246	Roadway	Extend Potomac Shores Parkway	Construct six lane road between US 1 and River Heritage Blvd Extend Potomac Shores Parkway as a four lane facility from Dunnington Place to Cherry Hill Road
17	251	Roadway	US 1 Jefferson Davis Highway Widening, Dumfries Rd to Cardinal Dr	Widen US 1 Jefferson Davis Highway to six lanes between VA-234 Dumfries Rd and Cardinal Dr / Neabsco Rd
18	256	Roadway	Widen Neabsco Rd, US 1 to Daniel Ludwig Dr	Widen Neabsco Rd to four lanes between US 1 and Daniel Ludwig Dr
19	257	Roadway	Widen Neabsco Mills Rd, Smoke Court to US 1	Widen Neabsco Mills Rd to four lanes between Smoke Court and US 1
20	259	Roadway	Widen Old Bridge Rd, Colby Dr to Minnieville Rd	Widen Old Bridge Rd to six lanes, Colby Dr to Minnieville Rd
21	262	Roadway	Widen Opitz Blvd, Gideon Dr to US 1	Widen Opitz Blvd to six lanes, Gideon Dr to US 1
22	265	Roadway	Construct River Heritage Blvd, Potomac Shores to Patriot Circle	Construct four lane River Heritage Blvd, Potomac Shores to Patriot Circle
23	270	Roadway	Summit School Road Extension and Widening	Extend Summit School Road from Minnieville Road to Telegraph Road as a six lane road.
24	271	Roadway	Construct/widen Telegraph Rd, Minnieville Rd to VA-294	Widen Telegraph Rd to four lanes between Minnieville Rd and Summit School Rd Widen Telegraph Rd to six lanes between Summit School Rd and Caton Hill Rd Widen Telegraph Rd to four lanes between Caton Hill Rd and VA-294
25	274	Roadway	Construct VanBuren North Rd, Cardinal Dr to Dumfries Rd	Construct four lane VanBuren North Rd, Cardinal Dr to Dumfries Rd
26	275	Roadway	Construct Van Buren South Rd, Dumfries Rd to Mine Rd	Construct four lane Van Buren South Rd, Dumfries Rd to Mine Rd
27	281	Roadway	Prince William Pkwy / Smoketown Rd Interchange	Construct interchange at Prince William Parkway and Smoketown Rd
28	282	Roadway	Annapolis Way Connector	Construct four lane facility to connect Annapolis Way East with Annapolis Way West
29	283	Roadway	Widen US 1, Occuquan River Bridge to VA 235 North	Widen US 1 to six lanes, Occuquan River Bridge/ Fairfax County Line to Telegraph Rd
30	287	Roadway	Rt. 1 (Jefferson Davis Hwy.)/Dale Blvd Interchange	Construct an interchange at Rt. 1 and Dale Blvd.



**Segment 8-1: I-95/US 1/VRE Fredericksburg — Stafford County Line to Fairfax County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
31	288	Roadway	Rt. 1 (Jefferson Davis Hwy.)/Joplin Road/Fuller Road	Construct a grade separated roundabout at Rt. 1, Joplin Road and Fuller Road
32	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac-Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
33	298	Transit	Implement new OmniLink service	Implement new OmniLink routes: Innovation-to-Gainesville/Haymarket; Innovation-to-Manassas; Montclair local
34	316	Transit	I-95 Corridor Park & Ride Prince William	Expand park & ride capacity at **Brittany Park, **Hillendale, **Montclair, **Old Bridge/Minnieville Rd, *Old Bridge Festival, ***Old Bridge/US route 1, *Potomac Mills, *Prince William Square, ***PRTC Transit Center, ***VA 234/ US 1, *Tacketts Mill Shopping Center, Construct a new park & ride lot at Cherry Hill and and a new park & ride garage at Potomac Center.
35	321	Roadway	Rt. 1 (Jefferson Davis Hwy.)/Rt. 234 (Dumfries Rd.)/Potomac Shores Pkwy.	Construct a "quadrant at-grade" interchange at Rt. 1, Rt. 234 and Potomac Shores Parkway

**Segment 8-1: I-95/US 1/VRE Fredericksburg — Stafford County Line to Fairfax County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
36	324	Transit	Fredericksburg Line Service Expansion	Implement VRE service improvements on the Fredericksburg line to reduce headways to 20 min in peak period. In support of this improvement: a. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment). b. Construct/expand VRE equipment storage and maintenance facilities in Fredericksburg and midday storage in Washington, D.C. c. Construct station/platform, parking and access improvements at VRE Fredericksburg Line stations d. Improve information sharing through ITS/TSM enhancements for improved communications.
37	325	Transit	Fredericksburg Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
38	327	Roadway	I-95 General Purpose Lanes Widening from Occoquan River Bridge to Route 234 (exit 152)	Widen SB I-95 to four lanes between the Occoquan River Bridge and VA 234 Dumfries Rd (exit 152).
39	339	ITS/ICM	I-95 ITS/ICM Improvements	Implement intelligent transportation systems, adaptive traffic control, and hard shoulder lanes on I-95
40	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
41	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
42	342	Roadway	Joplin Rd Improvements	Implement speed limit adjustments on VA 619 Joplin Road.

**Segment 8-1: I-95/US 1/VRE Fredericksburg — Stafford County Line to Fairfax County Line**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
43	343	Transit	VRE Express Service - Fredericksburg Line	Implement peak period express service on VRE Fredericksburg Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Spotsylvania, Leeland Rd, Woodbridge, Alexandria, Crystal City, L'Enfant, and Union Station

**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	39	Roadway	Fairfax County Pkwy/ US 1 Interchange	Construct interchange at Fairfax County Pkwy and US 1
2	42	Transit	Fairfax County Pkwy Priority Bus Service	Implement priority bus service on Fairfax County Parkway between Herndon/Monroe Metrorail station and Ft. Belvoir
3	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
4	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
5	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
6	64	Roadway	Van Dorn St - Franconia Rd Interchange	Construct interchange at VA 613 (Van Dorn Street) and VA 644 (Franconia Road)
7	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.

**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
8	66	Transit	Wilson Bridge High Capacity Transit	Extend high capacity surface transit from Metrorail Yellow Line in Alexandria to the Green Line in Prince George's County. Related to I-495 priority bus service CLRP bus service project. Potential modes include LRT, BRT, or improved bus service on corridor between stations.
9	70	Roadway	I-495 HOV Lanes	Implement HOV lanes on I-495 between I-395 and the Woodrow Wilson Bridge
10	73	Roadway	I-95 Improvements at Franconia-Springfield Pkwy	Build an entrance to the I-95 general purpose lanes at Franconia-Springfield Parkway
11	74	Roadway	I-95 / Fairfax County Pkwy Flyover Ramp	Construct a flyover ramp from northbound I-95 to northbound Fairfax County Parkway and make other interchange improvements
12	75	Roadway	US 1 Interchange at Telegraph Road	Construct interchange at US 1 and VA 611 (Telegraph Road)
13	77	Roadway	Frontier Drive Extension & Intersection Improvements	Construct Frontier Drive extension from Franconia-Springfield Parkway to Loisdale Road, included access to Franconia-Springfield Metrorail Station and braided ramps to and from the Parkway.

**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
14	78	Transit	DASH Transit Service Enhancements and Expansion	DASH Transit Service Enhancements: including new cross-town services and funding for additional buses to expand service on existing and new routes, circulators and trolleys within and between activity centers and expand bus storage and maintenance facilities; also includes transit stop improvements (bus shelters, real time information signs, bus stop benches, pads for ADA); upgrade to new and/or upgraded regional fare system including new fare collection technology; Provide transit service connection between Eisenhower Metrorail Station and King Street Metrorail Station; Provide transit service connection between Van Dorn Metrorail Station and the Landmark Mall vicinity; Provide east-west transit service between Braddock Rd Metrorail Station and Old Town / King St. Metrorail Station .
15	79	Transit	West End Transitway	Construct a four-mile segment of the dedicated bus lanes between the Van Dorn Metro station and Arlington County. This project will also provide pedestrian and bike facilities in the corridor
16	81	Transit	High Capacity Transit Extension to Potomac Mills	Extend high capacity surface transit from Springfield to Potomac Mills. Potential modes include LRT, BRT, or improved bus service on corridor between stations**. Potomac Mills to serve as a park-ride lot.

**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
17	86	Bike/Ped	Alexandria Bike and Ped Trails Construction and Reconstruction	Reconstruct Holmes Run Trail from North Ripley Street to I-395; Construct trails along local streets in the Beauregard Street and Van Dorn Street corridor, this facility will provide a north-south connection to the City's Holmes Run Trail, running east west, and connecting bicycle users to Mark Center corridor; Construct pedestrian and bicycle bridge over Holmes Run at Morgan St; Implement and construct projects in the City's Ped Bike Plan; Construct bicycle improvements along Royal St between Jones Point and Bashford St, include signage, traffic calming
18	89	Transit	US 1 BRT	Construct along US 1 BRT with stations at Beacon Hill, Hybla Valley, Fort Belvoir, Penn Daw, Pohick Rd, Woodlawn, and South County Government and with transit transfer centers at Kingman Rd and Fort Belvoir. Includes US 1 widening between VA 235 and I-495.
19	90	Transit	Fredericksburg Line Rail Capacity Improvements	Add a third track between AF and the VRE Crossroads Yard south of Fredericksburg.



**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
20	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
21	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
22	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.

**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
23	103	ITS/ICM	Arlington ITS Projects	Implement intelligent transportation systems and adaptive traffic control system on regional corridors within Arlington County, including: - Enhancement of Traffic System and Technology to a Smart Traffic Signal system; - Installation of Intelligent Transportation System (ITS) and corresponding Adaptive Traffic Control System program on US 29 Lee Highway to better manage traffic flow. Includes additional Bluetooth devices, count stations, CCTV cameras, and FLIR detectors and upgraded signals for better-timed connection with I-66; - Reconstruction of traffic signals to meet current standards, including upgrade from span wire to mast arm
24	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}
25	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
26	110	Transit	South County Feeder Bus Service	Improve service levels on bus routes serving Richmond Highway, Kingstowne, and Springfield
27	113	ITS/ICM	Alexandria ITS Projects	Funding for transportation technologies to improve system efficiencies in the City of Alexandria, Real-Time Adaptive Control and Data Management System - Build out and improve Traffic Signal System with fiber-optics; transit signal priority

**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
28	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
29	124	Transit	New Bus Garage in Northern Virginia	Construct a new bus garage in Northern Virginia. Location and size to be determined by service improvements in Northern Virginia transit network.
30	127	Transit	Blue and Yellow Line Bus Facility Improvements	Expand and improve bus bays, passenger facilities, and bus circulation and access paths at all Yellow and Blue Line stations and transit centers in the I-395/ US-1 corridor
31	193	Transit	Alexandria Bus Network ITS	Install Automatic Vehicle Location (AVL) technology on DASH bus to provide real-time arrival info, computer-aided dispatch, automated passenger counters (APC) and automated garage mapping system.
32	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.
33	213	Roadway	Widen US 1 at Mt. Vernon	Widen US 1 from 4 to 6 lanes from VA 235 North to VA 235 South
34	223	Roadway	Construct VA 289 Franconia-Springfield Parkway HOV interchange	Construct VA 289 Franconia-Springfield Parkway HOV interchange at Neuman Street.
35	224	Roadway	Upgrade VA 289 Franconia-Springfield Parkway to include HOV lanes	Upgrade VA 289 Franconia-Springfield Parkway to include HOV lanes from Rolling Road to Backlick Road.
36	227	Roadway	Widen Eisenhower Avenue	Widen Eisenhower Avenue from 4 to 6 lanes from Mill Road to Holland Lane.
37	229	Roadway	Widen Telegraph Road	Widen Telegraph Road from two lanes to three and four lanes (total) at various segments between Beulah Street and Franconia Road.
38	283	Roadway	Widen US 1, Occuquan River Bridge to VA 235 North	Widen US 1 to six lanes, Occuquan River Bridge/ Fairfax County Line to Telegraph Rd
39	293	Transit	ART Bus Parking and Heavy Maintenance Facility	Construct a bus heavy maintenance facility for Arlington Transit (ART) buses and provide additional spaces for ART bus parking.

**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
40	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
41	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20 min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>

**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
42	324	Transit	Fredericksburg Line Service Expansion	Implement VRE service improvements on the Fredericksburg line to reduce headways to 20 min in peak period. In support of this improvement: a. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment). b. Construct/expand VRE equipment storage and maintenance facilities in Fredericksburg and midday storage in Washington, D.C. c. Construct station/platform, parking and access improvements at VRE Fredericksburg Line stations d. Improve information sharing through ITS/TSM enhancements for improved communications.
43	325	Transit	Fredericksburg Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
44	326	Transit	Manassas Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
45	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
46	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.

**Segment 8-2: I-95/US 1/VRE Fredericksburg — Prince William County Line to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
47	339	ITS/ICM	I-95 ITS/ICM Improvements	Implement intelligent transportation systems, adaptive traffic control, and hard shoulder lanes on I-95
48	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
49	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
50	343	Transit	VRE Express Service - Fredericksburg Line	Implement peak period express service on VRE Fredericksburg Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Spotsylvania, Leeland Rd, Woodbridge, Alexandria, Crystal City, L'Enfant, and Union Station
51	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
52	354	Roadway	I-495 Express Lanes - Springfield to Wilson Bridge	Extend I-495 Express Lanes from Springfield across Wilson Bridge into Maryland
53	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395



**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	1	Transit	VA 7 Transit: Tysons - Mark Center	Construct Bus Rapid Transit line along VA 7 between Tysons and Mark Center with a connection to East Falls Church Metrorail Station
2	7	Roadway	King/Quaker/Braddock Intersection Improvements	Construct intersection improvements at King St, Quaker Lane, and Braddock Road - Includes replacing the span wire traffic signals with mast arm signals which will allow for the placement of much needed directional signs, precise placement of signal heads and the installation of vehicle detection. These improvements will mitigate driver confusion and allow for a more efficient conveyance of vehicles and pedestrians through the intersection. Also included in this project are modifications to the slip ramp between King Street and the service road as well as modifying the entrance to the service road at North Quaker Lane.
3	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
4	22	Bike/Ped	Bike Lanes Route 7 - Alexandria to Seven Corners	Construct protected bike lanes on both sides of VA 7 between Alexandria and Seven Corner. Connect with City of Falls Church's bicycle network.
5	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station



**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
6	60	Bike/Ped	Arlington Regional Trail Network	<p>Provide dedicated bike facilities, bikesharing and key sidewalk improvements on north-south corridors in Arlington to connect major east-west corridors with each other. Example corridors includes Carlin Springs Road, Walter Reed Drive/Fillmore Street, Harrison St, Washington Blvd, Rt 110, and others. Network also includes:</p> <ul style="list-style-type: none"> <li>-Trail parallel to Washington Blvd between Arlington Blvd and Columbia Pike</li> <li>-Rehab of Custis Trail to current VDOT shared used path design and construction specifications in Rosslyn</li> <li>-Extension of Custis Trail north of I-66 between Kennebec and Quantico</li> <li>-Long Bridge Park Esplanade extension to Mt Vernon Trail</li> <li>-Arlington Blvd trail</li> <li>-Theodore Roosevelt Bridge connection to Mt Vernon Trail and Marine Corps War Memorial</li> <li>-Dedicated cycling facility along the Route 50 service road (south side), between N. Rhodes St. and N. Meade St.</li> <li>-Expansion of Arlington bicycle commuter routes: Bluemont Junction Trail, Custis</li> </ul>
7	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
8	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
9	63	Transit	Route 50 Express Bus	Improve Route 50 - Orange Line bus connections.

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
10	64	Roadway	Van Dorn St - Franconia Rd Interchange	Construct interchange at VA 613 (Van Dorn Street) and VA 644 (Franconia Road)
11	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.
12	66	Transit	Wilson Bridge High Capacity Transit	Extend high capacity surface transit from Metrorail Yellow Line in Alexandria to the Green Line in Prince George's County. Related to I-495 priority bus service CLRP bus service project. Potential modes include LRT, BRT, or improved bus service on corridor between stations.
13	68	Roadway	Little River Turnpike Widening	Widen Little River Turnpike (VA 236) from 4 to 6 lanes between City of Fairfax and I-395
14	70	Roadway	I-495 HOV Lanes	Implement HOV lanes on I-495 between I-395 and the Woodrow Wilson Bridge
15	76	Roadway	Crystal City, Pentagon City, Potomac Yard Street Grid Improvements	Construct an improved grid network of streets in Crystal City, Pentagon City, and Potomac Yard

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
16	78	Transit	DASH Transit Service Enhancements and Expansion	DASH Transit Service Enhancements: including new cross-town services and funding for additional buses to expand service on existing and new routes, circulators and trolleys within and between activity centers and expand bus storage and maintenance facilities; also includes transit stop improvements (bus shelters, real time information signs, bus stop benches, pads for ADA); upgrade to new and/or upgraded regional fare system including new fare collection technology; Provide transit service connection between Eisenhower Metrorail Station and King Street Metrorail Station; Provide transit service connection between Van Dorn Metrorail Station and the Landmark Mall vicinity; Provide east-west transit service between Braddock Rd Metrorail Station and Old Town / King St. Metrorail Station .
17	79	Transit	West End Transitway	Construct a four-mile segment of the dedicated bus lanes between the Van Dorn Metro station and Arlington County. This project will also provide pedestrian and bike facilities in the corridor
18	80	Transit	I-395 Bus Lanes	Construct bus lanes between Pentagon Transit Center and 14th Street using inside shoulders of Rochambeau Memorial Bridge (I-395)
19	82	Transit	Widen Long Bridge	Widen the Long Bridge to 4 tracks to accommodate additional rail capacity for commuter (VRE), intercity (Amtrak, DC2RVA), and freight (CSXT) services.

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
20	83	Transit	King Street Metro-Alexandria Union Station Improvements	Implement multimodal improvements at the King Street Metro station including improved access to parking lot and bus facilities, construction of new shelters, construction of additional bus bays, and a planned transit store. Construction of a new pedestrian tunnel between Alexandria Union Station and the King Street Metrorail station to include elevators and elimination of existing at grade crossing. Pedestrian tunnel project also includes improvements to the east platform including lengthening the platform, ADA improvements, a new canopy and a stairway and elevator connection to the pedestrian tunnel. Improvements to the east platform will increase freight, commuter, and passenger rail operations within and through the City of Alexandria and allow for VRE to utilize the east platform for revenue service. Project also include other improvements at Alexandria Union Station.
21	84	Transit	Crystal City Metro Station Multimodal Improvements	Enhance bus docking capacity and passenger facilities at the Crystal City Metro station
22	85	Transit	Crystal City Metro Station Second Entrance	Construct a second entrance to the Crystal City Metro station (near Crystal Drive and 18th Street S) providing connections to Crystal City VRE Station and DCA.

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
23	86	Bike/Ped	Alexandria Bike and Ped Trails Construction and Reconstruction	Reconstruct Holmes Run Trail from North Ripley Street to I-395; Construct trails along local streets in the Beauregard Street and Van Dorn Street corridor, this facility will provide a north-south connection to the City's Holmes Run Trail, running east west, and connecting bicycle users to Mark Center corridor; Construct pedestrian and bicycle bridge over Holmes Run at Morgan St; Implement and construct projects in the City's Ped Bike Plan; Construct bicycle improvements along Royal St between Jones Point and Bashford St, include signage, traffic calming
24	89	Transit	US 1 BRT	Construct along US 1 BRT with stations at Beacon Hill, Hybla Valley, Fort Belvoir, Penn Daw, Pohick Rd, Woodlawn, and South County Government and with transit transfer centers at Kingman Rd and Fort Belvoir. Includes US 1 widening between VA 235 and I-495.
25	90	Transit	Fredericksburg Line Rail Capacity Improvements	Add a third track between AF and the VRE Crossroads Yard south of Fredericksburg.

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
26	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
27	97	Transit	Columbia Pike Priority Transit Network (PrTN)	Provide priority transit service from Skyline to Crystal City via Pentagon City, including limited-stop bus service, improved headways, and 24 transit stations.
28	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
29	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.
30	101	Bike/Ped	Columbia Pike Corridor urban bike/ped network	Improve bicycle and pedestrian infrastructure in and around the Columbia Pike corridor, including bikeways, bikesharing, and key sidewalk improvements, to convert SOV trips to, within, and between activity center areas from car to bike/pedestrian. Includes parallel bike routes along 9th St, 11th St, and 12th in the vicinity of Columbia Pike.



**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
31	102	Bike/Ped	Arlington TDM Package	<p>Improve and expand the commuter assistance and other programs provided by Arlington County Commuter Services. Includes new commuter stores and next generation IT services, implementation of transportation system management and communication upgrade throughout the County, and improvements to traveler information via creation or expansion of informational, wayfinding, alert, or real-time signs providing information on multimodal transportation options.</p> <p>Develop a system of coordinated mobility hubs along major corridors to fully integrate transit, bikesharing, carsharing, ridesharing, pedestrians, bicycling, ride hailing and other shared use services. Develop, coordinate, implement, and/or expand shared-ride and ride-hailing services for first mile/last mile connections to transit and mobility hubs as well as to activity centers, parking, and pick-up hotspots. Includes support for autonomous vehicles, casual carpooling, on-demand services</p>



**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
32	103	ITS/ICM	Arlington ITS Projects	Implement intelligent transportation systems and adaptive traffic control system on regional corridors within Arlington County, including: - Enhancement of Traffic System and Technology to a Smart Traffic Signal system; - Installation of Intelligent Transportation System (ITS) and corresponding Adaptive Traffic Control System program on US 29 Lee Highway to better manage traffic flow. Includes additional Bluetooth devices, count stations, CCTV cameras, and FLIR detectors and upgraded signals for better-timed connection with I-66; - Reconstruction of traffic signals to meet current standards, including upgrade from span wire to mast arm
33	104	Transit	Metro station access and capacity improvements	Construction of station access and capacity improvements at: Rosslyn, Pentagon, Vienna, Foggy Bottom, Farragut West, McPherson Square, Metro Center, L'Enfant Plaza, and Union Station. Also includes station area lighting and customer amenities.
34	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}
35	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
36	110	Transit	South County Feeder Bus Service	Improve service levels on bus routes serving Richmond Highway, Kingstowne, and Springfield

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
37	112	Bike/Ped	Crystal City Corridor Urban Ped/Bike Network	Improve bicycle and pedestrian infrastructure in and around Arlington's Blue/Yellow Metro corridor, including bikeways, bikesharing, and key sidewalk improvements, to convert SOV trips to, within, and between Metro station areas from car to bike/pedestrian, and to enable access to/from Metro stations to high-density housing and job centers.
38	113	ITS/ICM	Alexandria ITS Projects	Funding for transportation technologies to improve system efficiencies in the City of Alexandria, Real-Time Adaptive Control and Data Management System - Build out and improve Traffic Signal System with fiber-optics; transit signal priority
39	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
40	116	Transit	Implement integrated regional rail service / VRE-MARC run-through service	Implement run-through service by integrating intercity rail service with MARC and AMTRAK
41	117	Transit	Metroway - Pentagon City Extension	Construct extension of Metroway to Pentagon City, which includes reconfiguration of 12th Street S between S Eads St and S Clark St for exclusive transit lanes. Removal of obsolete section of Clark St and realignment of Clark St with Bell St to improve street network. Intersection improvements around 23rd St S and US 1. Implement Complete Street improvements to Army Navy Drive.
42	122	Transit	ART Service Restructuring and Expansion	Purchase of buses in support of Arlington Transit (ART) service restructuring and expansion. Includes implementation of priority bus service on Glebe Road between Marymount University and Potomac Yard Metro via Ballston.
43	127	Transit	Blue and Yellow Line Bus Facility Improvements	Expand and improve bus bays, passenger facilities, and bus circulation and access paths at all Yellow and Blue Line stations and transit centers in the I-395/ US-1 corridor

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
44	193	Transit	Alexandria Bus Network ITS	Install Automatic Vehicle Location (AVL) technology on DASH bus to provide real-time arrival info, computer-aided dispatch, automated passenger counters (APC) and automated garage mapping system.
45	194	Transit	Landmark Transit Station Improvements	Construct a transit center on the Landmark Mall site, construct transit commuter hub or kiosk at the future West End Transit Center
46	195	Roadway	Arlandria/Del Ray/ Lynhaven/Potomac Yard Roadway, Bike/Ped, Improvements	Traffic improvements for the intersection of Mt Vernon Ave and E/W Glebe Rd, including signalization, accommodation for pedestrians and turn lane channelization. Construct improvements at Mt Vernon/Four Mile Rd intersection, including ped/bike improvements; Construct bike/ped bridge over four mile run between Commonwealth Ave and Eads St; Mt Vernon Ave/Russell Rd intersection safety improvements to accommodate pedestrian and bicyclists, may entail intersection and parking configuration redesign. Construct a pedestrian/bicycle link from the Potomac Yard Trail to connect to the Four Mile Run trail on the south side of Four Mile Run, and to the Mt. Vernon Trail; Oakville Triangle improvement projects

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
47	196	Roadway	West End Alexandria Roadway Improvements	Construct a multimodal bridge from Van Dorn Metro station to Pickett Street; Extend Library Ln North to Connect with Van Dorn St; ellipse at Beauregard and Seminary; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; add protected, permissive left turn lane along NB and SB Van Dorn; Widen Van Dorn St Bridge over Duke St to accommodate pedestrians; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; Construct new roadway along Fairfax County Line to connect Edsall Rd, S Pickett St, Farrington Ave; Intersection improvements along Van Dorn Street at Eisenhower, Edsall, Pickett; Straightening Eisenhower; New High Street Addition and Bridge as part of Alexandria's Landmark Van Dorn Area Plan
48	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.
49	202	Transit	Metro Station Improvements within the City of Alexandria	Redesign kiss-and-ride and reconfigure bus loading area to accommodate West End Transitway at the Van Dorn Metrorail Station and existing and future developments within the Eisenhower West Small Area Plan. Improvements to the Eisenhower Ave Metrorail Station to accommodate East Eisenhower development, including renovation of existing bus loop, new pedestrian plaza, new bus shelter canopies, and real-time bus arrival info displays.
50	227	Roadway	Widen Eisenhower Avenue	Widen Eisenhower Avenue from 4 to 6 lanes from Mill Road to Holland Lane.
51	229	Roadway	Widen Telegraph Road	Widen Telegraph Road from two lanes to three and four lanes (total) at various segments between Beulah Street and Franconia Road.

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
52	236	Roadway	Reconstruct I-95 interchange at VA 613 Van Dorn Street	Reconstruct I-95 interchange at VA 613 Van Dorn Street.
53	291	Transit	Arlington mobility hubs	Develop a system of coordinated mobility hubs along major corridors to fully integrate transit, bikesharing, carsharing, ridesharing, pedestrians, bicycling, ride hailing and other shared use services;
54	292	Transit	Off-vehicle fare collection	Develop a system of off board fare collections for ART and WMATA buses.
55	293	Transit	ART Bus Parking and Heavy Maintenance Facility	Construct a bus heavy maintenance facility for Arlington Transit (ART) buses and provide additional spaces for ART bus parking.
56	296	Roadway	14th Street Bridge HOT lanes	DC project to implement HOT on 14th St Bridge
57	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac-Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
58	299	Transit	VRE Alexandria-DC Rail Capacity Improvements	Construct fourth track LE to VA Construct fourth track RO to AF Alexandria track 1 access/ Slater's Lane crossover Construct Washington Union Station station/access improvements Construct VRE L'Enfant station/access improvements Construct VRE Crystal City station/access improvements
59	300	Transit	VRE Alexandria Station Improvements	Improve multimodal connectivity and accessibility at the Alexandria Union Station - King Street Metro station through construction of a pedestrian tunnel between the two stations; platform expansion and access improvements at VRE station

**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
60	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20 min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>
61	317	Transit	Pentagon City Metrorail 2nd Entrance	Construct 2nd elevator entrance adjacent to Fashion Center Mall
62	318	Transit	Shirlington Bus Station Expansion	Addition of new bus bays at the Shirlington Bus Station
63	319	Transit	Crystal City Bus Improvements	Improving bus circulation, operations, and safety in the Crystal City area.



**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
64	324	Transit	Fredericksburg Line Service Expansion	Implement VRE service improvements on the Fredericksburg line to reduce headways to 20 min in peak period. In support of this improvement: a. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment). b. Construct/expand VRE equipment storage and maintenance facilities in Fredericksburg and midday storage in Washington, D.C. c. Construct station/platform, parking and access improvements at VRE Fredericksburg Line stations d. Improve information sharing through ITS/TSM enhancements for improved communications.
65	325	Transit	Fredericksburg Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
66	326	Transit	Manassas Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
67	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.
68	339	ITS/ICM	I-95 ITS/ICM Improvements	Implement intelligent transportation systems, adaptive traffic control, and hard shoulder lanes on I-95



**Segment 8-3: I-395/US 1/VRE Fredericksburg/Blue Yellow Line — I-495 to Potomac River**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
69	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
70	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
71	343	Transit	VRE Express Service - Fredericksburg Line	Implement peak period express service on VRE Fredericksburg Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Spotsylvania, Leeland Rd, Woodbridge, Alexandria, Crystal City, L'Enfant, and Union Station
72	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
73	352	Transit	ART Service Improvements	Increase ART service on crowded corridors in Arlington County, supported by capacity increases at Heavy Maintenance / Bus Parking facilities
74	353	Transit	Van Dorn Intermodal Facility	Construct Intermodal facility in the vicinity of Van Dorn Metro station to facilitate transfers between Metrorail, West End Transitway, and local transit service.
75	354	Roadway	I-495 Express Lanes - Springfield to Wilson Bridge	Extend I-495 Express Lanes from Springfield across Wilson Bridge into Maryland
76	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395
77	356	Transit	MARC / VRE Crossover Service	Implement MARC Crossover service to Alexandria and points south and west and VRE Crossover service to destinations including New Carrollton, College Park, and points north via Union Station during AM and PM peak hours

**Segment 9-1: US 15 — Potomac River to Rt. 7**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	11	Transit	West Loudoun "Gateway" Park-and-ride	Construct three new park-and-ride lots in West Loudoun (Hillsboro, Round Hill, and Lucketts)
2	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
3	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
4	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
5	93	Roadway	Interchange at US 15 and Battlefield Pkwy	Construct grade-separated interchange at US 15 (Leesburg Bypass) and Battlefield Parkway
6	109	Transit	Loudoun County Phase III Bus Service	Implement Phase III bus service in Loudoun County, including local, express, intercounty, commuter, and demand-response services
7	129	Roadway	VA 7 Widening, Battlefield Pkwy to Leesburg ECL	Widen VA 7 from 6 to 8 lanes between Battlefield Pkwy and Leesburg ECL
8	130	Roadway	Route 15 Bypass / Edwards Ferry Road Interchange	Construct a grade-separated interchange at the Route 15 Leesburg Bypass and Edwards Ferry Rd in Leesburg. Includes grade separated interchange at For Evans Rd intersection
9	157	Roadway	Widen/Extend Battlefield Parkway	Widen Battlefield Pkwy to six lanes from Edwards Ferry Rd to US 15 (South King Street opposite Meade Drive).
10	162	Roadway	Widen VA 7, Leesburg Bypass to Atlantic Blvd (Harry Byrd Highway/East Market Street)	Widen VA 7 (Harry Byrd Highway) to 8 lanes between US 15 (Leesburg Bypass) and Atlantic Blvd (VA 1902). Study of alternative uses (bus lanes, HOV) to be considered for segment between VA 28 and Leesburg Bypass.
11	190	Roadway	Widen US 15	Widen US 15 to 4 lanes from Battlefield Pkwy interchange to VA 740 (Tutt Lane)

**Segment 9-1: US 15 — Potomac River to Rt. 7**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	192	Roadway	Construct interchange, VA 7 at Battlefield Pkwy	Construct grade-separated interchange, VA 7 at Battlefield Pkwy
13	286	Roadway	Route 15 Congestion Mitigation Improvements	Implement congestion mitigation improvements, including roundabouts and reduction of left turning movements, on Route 15 north of Leesburg
14	303	Roadway	Leesburg Bypass	Widen VA 7/US 15 to 6 lanes (limited access) from the East Market Street interchange to the US 15 interchange.
15	304	Roadway	VA 7 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 7 from the Fairfax County Line to the Clarke County Line, as directed by the Board.
16	307	Roadway	US 15 "hot spot" and safety improvements	"Hot Spot" and safety improvements on US 15 from the Prince William County Line to the Maryland State Line, as directed by the Board.
17	309	Roadway	Extend Russell Branch Parkway (Leesburg)	Extend Russell Branch Parkway (Leesburg) from Cochran Mill Road (VA 653) to Trailview Blvd: Construct a 4-lane roadway.
18	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
19	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia

**Segment 9-2: US 15 — Rt. 7 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
2	14	Transit	Transit Connections to Silver Line Phase II Stations	Expand bus service and connections to Silver Line Phase II stations. Provide feeder bus service between Metrorail and P&R lots. Purchase buses for new service.
3	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
4	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
5	109	Transit	Loudoun County Phase III Bus Service	Implement Phase III bus service in Loudoun County, including local, express, intercounty, commuter, and demand-response services
6	128	Roadway	Widen Route 15, Harmony Church Rd to Mason Lane	Widen Route 15 to four lanes from Harmony Church Rd to Mason Lane
7	129	Roadway	VA 7 Widening, Battlefield Pkwy to Leesburg ECL	Widen VA 7 from 6 to 8 lanes between Battlefield Pkwy and Leesburg ECL
8	155	Roadway	Construct Airport Area Connector	Construct Airport Area Connector between Battlefield Pkwy and Crosstail Blvd (VA 653) just east of VA 267: Construct 4 lanes.
9	157	Roadway	Widen/Extend Battlefield Parkway	Widen Battlefield Pkwy to six lanes from Edwards Ferry Rd to US 15 (South King Street opposite Meade Drive).
10	162	Roadway	Widen VA 7, Leesburg Bypass to Atlantic Blvd (Harry Byrd Highway/East Market Street)	Widen VA 7 (Harry Byrd Highway) to 8 lanes between US 15 (Leesburg Bypass) and Atlantic Blvd (VA 1902). Study of alternative uses (bus lanes, HOV) to be considered for segment between VA 28 and Leesburg Bypass.

**Segment 9-2: US 15 — Rt. 7 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
11	167	Roadway	Widen VA 7, W Market St to Charles Town Pike	Widen VA 7 (Harry Byrd Highway) from 4 to 8 lanes between West Market St (VA 7 business) and Charles Town Pike (VA 9). Construct grade-separated interchange at White Gate Place and remove all remaining at-grade access.
12	179	Roadway	Widen Evergreen Mills Rd from VA 621 Relocated to Battlefield Pkwy	Widen Evergreen Mills Rd (VA 621) from 2 to 4 lanes between Shreveport Dr (VA 621 Relocated) and Battlefield Pkwy.
13	180	Roadway	Widen Evergreen Mills Rd from Battlefield Pkwy to US 15 (South King Street)	Widen Evergreen Mills Rd (VA 621) from 2 to 4 lanes between Battlefield Pkwy and US 15 (South King St).
14	182	Roadway	Widen Sycolin Rd	Widen Sycolin Rd (VA 625) to 4 lanes between Belmont Ridge Rd (VA 659) and Battlefield Pkwy. Realign Sycolin Rd to accommodate expansion of Leesburg Airport**.
15	192	Roadway	Construct interchange, VA 7 at Battlefield Pkwy	Construct grade-separated interchange, VA 7 at Battlefield Pkwy
16	302	Roadway	Leesburg Bypass	Widen VA 7 to 6 lanes (limited access) from US 15 King St to West Market Street interchange.
17	303	Roadway	Leesburg Bypass	Widen VA 7/US 15 to 6 lanes (limited access) from the East Market Street interchange to the US 15 interchange.
18	304	Roadway	VA 7 "hot spot" and safety improvements	"Hot Spot" and safety improvements on VA 7 from the Fairfax County Line to the Clarke County Line, as directed by the Board.
19	307	Roadway	US 15 "hot spot" and safety improvements	"Hot Spot" and safety improvements on US 15 from the Prince William County Line to the Maryland State Line, as directed by the Board.
20	309	Roadway	Extend Russell Branch Parkway (Leesburg)	Extend Russell Branch Parkway (Leesburg) from Cochran Mill Road (VA 653) to Trailview Blvd: Construct a 4-lane roadway.
21	313	Transit	Transit buses purchase	Purchase of buses in support of Loudoun County's transit services.
22	314	Roadway	US 50 Improvements	Improvements along US 50 (John Mosby Highway/Washington Street) from the Fairfax County Line to the Fauquier County Line.

**Segment 9-2: US 15 — Rt. 7 to I-66**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
23	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
24	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
25	345	Roadway	Route 7 Reversible Lanes	Construct reversible lanes on VA-7 Leesburg Bypass between the Greenway Toll Road and VA-9



**Segment 9-3: US 15 — US 50 to US 29**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
2	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
3	92	Roadway	US 15 Widening Prince William, Rt 234 to Loudoun County line	Widen US 15 from two to four lanes between VA 234 and the Loudoun County line.
4	247	Roadway	Construct Haymarket Bypass, VA 29 to US 15	Construct PWC portion of Haymarket Bypass from Old Carolina Rd to US 15
5	249	Roadway	Widen I-66, Prince William County	Widen I-66 to eight lanes between Fauquier CL and Antioch Bridge Rd
6	250	Roadway	Widen US 15, Haymarket TL to US 29	Widen US 15 James Madison Highway to four lanes from Haymarket TL to US 29. Project improvements implemented in conjunction with Railroad Overpass.
7	252	Roadway	Widen John Marshall Hgwy, Thoroughfare Rd to US 29	Widen John Marshall Hwy from two to four lanes between Thoroughfare Rd (excluding Town of Haymarket) and Catharpin Rd and from four to six lanes between Catharpin Rd and Lee Hwy
8	253	Roadway	Widen US 29 Lee Highway, US 15 to Virginia Oaks Dr	Widen US 29 Lee Highway, to six lanes between US 15 and Virginia Oaks Drive
9	255	Roadway	Widen McGraws Corner Dr, Thoroughfare Rd to US 29	Widen McGraws Corner Dr to four lanes between Thoroughfare Rd and US 29
10	260	Roadway	Widen Old Carolina Rd, Heathcote Blvd to US 29	Widen Old Carolina Rd to four lanes, Heathcote Blvd to US 29
11	268	Roadway	Widen Sudley Rd, US 15 to US 29	Widen Sudley Rd to four lanes, US 15 James Madison Highway to US 29 Lee Highway
12	272	Roadway	Widen Thoroughfare Rd, US 15 to McGraws Corner Dr	Widen Thoroughfare Rd to four lanes, US 15 to McGraws Corner Dr
13	298	Transit	Implement new OmniLink service	Implement new OmniLink routes: Innovation-to-Gainesville/Haymarket; Innovation-to-Manassas; Montclair local



**Segment 9-3: US 15 — US 50 to US 29**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
14	307	Roadway	US 15 "hot spot" and safety improvements	"Hot Spot" and safety improvements on US 15 from the Prince William County Line to the Maryland State Line, as directed by the Board.
15	314	Roadway	US 50 Improvements	Improvements along US 50 (John Mosby Highway/Washington Street) from the Fairfax County Line to the Fauquier County Line.
16	315	Transit	I-66 Corridor Park & Ride Prince William	Construct new park & ride lots along the I-66 corridor in Prince William at *Dominion, ***Innovation, ***James Madison Arrowleaf, ***Linton Hall School, and ***Yorkshire. Expand existing P&R capacity at *Limestone Drive and *Manassas Mall/Sears.
17	329	Roadway	Route 15 Improvements with Railroad Overpass	Project will widen Route 15 from 2 to 4 lanes and build an overpass over the existing Norfolk Southern Railway (NS) B-Line tracks. The project extends about 1000' north of the tracks and extends approximately 1200' south of the tracks
18	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	27	Roadway	VA 28 Widening, I-66 to Loudoun	Widen VA 28 to 10 lanes between I-66 and Loudoun County (8 GP + 2 HOV)
2	28	Roadway	VA 28 / New Braddock Rd Interchange	Construct an interchange at VA 28 and New Braddock Road
3	31	Roadway	VA 28 Widening, US 29 to Prince William Cty Line	Widen VA 28 to six lanes between Prince William County Line and U.S. 29
4	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
5	33	Bike/Ped	VA 28 Trail	Construct a shared used path on both sides of VA 28 from Prince William County line to Dulles Toll Road
6	38	Roadway	Fairfax County Pkwy HOV Widening (Franconia)	Widen Fairfax County Pkwy by adding HOV lanes from Franconia Springfield Pkwy to I-66
7	40	Roadway	Rolling Rd Widening	Widen Rolling Rd to four lanes between Hunter Village Dr and Old Keene Mill Rd
8	41	Roadway	Fairfax County Pkwy Widening	Widen Fairfax County Pkwy to six lanes from VA 123 to Sydenstricker Rd
9	42	Transit	Fairfax County Pkwy Priority Bus Service	Implement priority bus service on Fairfax County Parkway between Herndon/Monroe Metrorail station and Ft. Belvoir
10	43	Roadway	Route 286 Widening Fairfax County Parkway Widening (VA 123 to US 29)	Widen Fairfax County Parkway from VA 123 (Ox Rd) to US 29 (Lee Highway) from four lanes to six lanes. Construct a grade-separated interchange at the intersection of the Fairfax County Parkway and Popes Head Road, with shared used paths on both sides.
11	44	Roadway	Shirley Gate Road Extension	Extend Shirley Gate Road from Braddock Rd to Fairfax County Parkway
12	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
13	48	Transit	Extend High Capacity Transit to Centreville	Extend High Capacity transit from Metrorail to Centreville Potential modes include LRT, BRT, or improved bus service on corridor between stations. Construction of stations and PNR lots at Centreville, Stringfellow, and Government Center / Fair Oaks, and a station serving the City of Fairfax.

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
14	52	Roadway	Stone Road Overpass over I-66 from Route 29 to Route 28	Construct 4-lane divided road between Stone Road at Route 29 and New Braddock Road, including bridges over I-66 and Big Rocky Run and a shared use path
15	55	Bike/Ped	US 29 trail	Construct a trail along US 29 from Dixie Hill Rd to EFC Metrorail Station
16	56	Roadway	Widen VA 123, Fairfax to Vienna	Widen VA 123 to six lanes between City of Fairfax and Town of Vienna
17	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
18	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
19	64	Roadway	Van Dorn St - Franconia Rd Interchange	Construct interchange at VA 613 (Van Dorn Street) and VA 644 (Franconia Road)
20	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.
21	68	Roadway	Little River Turnpike Widening	Widen Little River Turnpike (VA 236) from 4 to 6 lanes between City of Fairfax and I-395
22	70	Roadway	I-495 HOV Lanes	Implement HOV lanes on I-495 between I-395 and the Woodrow Wilson Bridge

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
23	78	Transit	DASH Transit Service Enhancements and Expansion	DASH Transit Service Enhancements: including new cross-town services and funding for additional buses to expand service on existing and new routes, circulators and trolleys within and between activity centers and expand bus storage and maintenance facilities; also includes transit stop improvements (bus shelters, real time information signs, bus stop benches, pads for ADA); upgrade to new and/or upgraded regional fare system including new fare collection technology; Provide transit service connection between Eisenhower Metrorail Station and King Street Metrorail Station; Provide transit service connection between Van Dorn Metrorail Station and the Landmark Mall vicinity; Provide east-west transit service between Braddock Rd Metrorail Station and Old Town / King St. Metrorail Station .
24	79	Transit	West End Transitway	Construct a four-mile segment of the dedicated bus lanes between the Van Dorn Metro station and Arlington County. This project will also provide pedestrian and bike facilities in the corridor
25	90	Transit	Fredericksburg Line Rail Capacity Improvements	Add a third track between AF and the VRE Crossroads Yard south of Fredericksburg.

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
26	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>
27	94	Roadway	VA 123/Braddock Rd Interchange	Construct an interchange at VA 123 and Braddock Rd
28	95	Roadway	VA 123 Widening, Braddock Rd to Fairfax	Widen VA 123 to six lanes between City of Fairfax and Braddock Rd
29	96	Roadway	Braddock Rd Widening, Ox Road to Fairfax County Pkwy	Widen Braddock Rd to six lanes from Ox Rd to VA 286
30	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
31	99	Transit	VA 123 Priority Bus Service	Add bus priority service on VA 123 to serve Tysons.
32	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
33	103	ITS/ICM	Arlington ITS Projects	Implement intelligent transportation systems and adaptive traffic control system on regional corridors within Arlington County, including: - Enhancement of Traffic System and Technology to a Smart Traffic Signal system; - Installation of Intelligent Transportation System (ITS) and corresponding Adaptive Traffic Control System program on US 29 Lee Highway to better manage traffic flow. Includes additional Bluetooth devices, count stations, CCTV cameras, and FLIR detectors and upgraded signals for better-timed connection with I-66; - Reconstruction of traffic signals to meet current standards, including upgrade from span wire to mast arm
34	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}
35	108	Transit	Metrorail Real-Time Parking Info	Deployment of real-time parking information signage at WMATA rail stations
36	110	Transit	South County Feeder Bus Service	Improve service levels on bus routes serving Richmond Highway, Kingstowne, and Springfield
37	113	ITS/ICM	Alexandria ITS Projects	Funding for transportation technologies to improve system efficiencies in the City of Alexandria, Real-Time Adaptive Control and Data Management System - Build out and improve Traffic Signal System with fiber-optics; transit signal priority



**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
38	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
39	127	Transit	Blue and Yellow Line Bus Facility Improvements	Expand and improve bus bays, passenger facilities, and bus circulation and access paths at all Yellow and Blue Line stations and transit centers in the I-395/ US-1 corridor
40	134	Roadway	Fairfax Boulevard Multimodal Improvements	Implement multimodal improvements and improve local connections along Fairfax Boulevard. Enhance transit, ped-bike and roadway facilities and infrastructure.
41	135	Roadway	Jermantown Rd Multimodal Improvements	Implement multimodal improvements and improve local connections along Jermantown Rd. Enhance transit, ped-bike and roadway facilities and infrastructure. Includes widening of Jermantown Road to four lanes south of the I-66 bridge as well as extension of Government Center Parkway. May include participation with Fairfax County on widening of bridge over I-66.
42	136	Roadway	VA 123 Multimodal Improvements	Implement multimodal improvements, improve intersections and local connections, and improve transit service along VA 123. Enhance transit, ped-bike and roadway facilities and infrastructure.
43	137	Roadway	Old Lee Highway Multimodal Improvements	Implement multimodal improvements along Old Lee Highway. Enhance transit, ped-bike and roadway facilities and infrastructure.
44	138	Bike/Ped	Fairfax Citywide Bike-Ped Access	Improve on- and off-road bike and pedestrian facilities, routes, and infrastructure along and adjacent to City of Fairfax corridors to provide better access to Metrorail and regional trails. Expand bikeshare, bike storage, and signage. Includes the extension of the George Snyder Trail.



**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
45	142	Transit	Transit Enhancements, City of Fairfax	Upgrade and construct transit stops and shelters on CUE routes with improved facilities, design, technology, and/or ped-bike access. Expand transit service and purchase additional buses.
46	193	Transit	Alexandria Bus Network ITS	Install Automatic Vehicle Location (AVL) technology on DASH bus to provide real-time arrival info, computer-aided dispatch, automated passenger counters (APC) and automated garage mapping system.
47	196	Roadway	West End Alexandria Roadway Improvements	Construct a multimodal bridge from Van Dorn Metro station to Pickett Street; Extend Library Ln North to Connect with Van Dorn St; ellipse at Beauregard and Seminary; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; add protected, permissive left turn lane along NB and SB Van Dorn; Widen Van Dorn St Bridge over Duke St to accommodate pedestrians; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; Construct new roadway along Fairfax County Line to connect Edsall Rd, S Pickett St, Farrington Ave; Intersection improvements along Van Dorn Street at Eisenhower, Edsall, Pickett; Straightening Eisenhower; New High Street Addition and Bridge as part of Alexandria's Landmark Van Dorn Area Plan
48	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.
49	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
50	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
51	202	Transit	Metro Station Improvements within the City of Alexandria	Redesign kiss-and-ride and reconfigure bus loading area to accommodate West End Transitway at the Van Dorn Metrorail Station and existing and future developments within the Eisenhower West Small Area Plan. Improvements to the Eisenhower Ave Metrorail Station to accommodate East Eisenhower development, including renovation of existing bus loop, new pedestrian plaza, new bus shelter canopies, and real-time bus arrival info displays.
52	210	Roadway	Widen auxiliary lanes along I-495	Widen auxiliary lanes along various segments of I-495 from north of Hemming Ave Underpass to Georgetown Pike. Reconstruct the I-495 auxiliary lane from VA 7 to I-66
53	216	Roadway	Widen US 29, VA 665 to Pickwick Rd	Widen US 29 from 4 to 6 lanes from Waples Mill Rd to Pickwick Road
54	218	Roadway	Widen VA 123, Hooes Rd to Braddock Road	Widen VA 123 Ox Road from 4 to 6 lanes between Hooes Road and Braddock Rd
55	230	Roadway	Construct/widen New Braddock Road	Construct/widen New Braddock Road from 0/2 lanes to 4 lanes from VA 28 to US 29 at VA 662 (Stone Road).
56	236	Roadway	Reconstruct I-95 interchange at VA 613 Van Dorn Street	Reconstruct I-95 interchange at VA 613 Van Dorn Street.
57	273	Roadway	Godwin Drive Extension	Construct four lane extension of Godwin Drive between Sudley Rd and Route 28 between Bull Run and Compton Rd. Construct grade-separated interchanges at Lomond Dr and Sudley Rd
58	293	Transit	ART Bus Parking and Heavy Maintenance Facility	Construct a bus heavy maintenance facility for Arlington Transit (ART) buses and provide additional spaces for ART bus parking.
59	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac-Mills/Rosslyn/Ballston; Montclair/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
60	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20-min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"><li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li><li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li><li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li><li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li><li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li></ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
61	324	Transit	Fredericksburg Line Service Expansion	Implement VRE service improvements on the Fredericksburg line to reduce headways to 20 min in peak period. In support of this improvement: a. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment). b. Construct/expand VRE equipment storage and maintenance facilities in Fredericksburg and midday storage in Washington, D.C. c. Construct station/platform, parking and access improvements at VRE Fredericksburg Line stations d. Improve information sharing through ITS/TSM enhancements for improved communications.
62	325	Transit	Fredericksburg Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
63	326	Transit	Manassas Line Peak Period Service Expansion	Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement: a. Purchase additional rolling stock b. Construct/expand VRE equipment storage and maintenance facilities c. Rail Line capacity improvements d. Station/Parking Access improvements e. ITS/TSM improvements.
64	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
65	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
66	336	Roadway	Braddock Road Intersection Improvements: Guinea Road to Ravensworth Road	Task Force voted to improve selected intersection only from Guinea Road to Ravensworth Road. Project includes access mgmt, intersection improvements, signalization, and pedestrian improvements
67	337	Roadway	Fairfax County Parkway / Shirley Gate Extension Interchange	Construct grade-separated interchange at Fairfax County Parkway and extension of Shirley Gate Dr
68	339	ITS/ICM	I-95 ITS/ICM Improvements	Implement intelligent transportation systems, adaptive traffic control, and hard shoulder lanes on I-95
69	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
70	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
71	343	Transit	VRE Express Service - Fredericksburg Line	Implement peak period express service on VRE Fredericksburg Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Spotsylvania, Leeland Rd, Woodbridge, Alexandria, Crystal City, L'Enfant, and Union Station
72	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
73	347	Roadway	VA-28 Reversible HOV Lanes	Implement reversible HOV lanes on VA-28 between I-66 and the Dulles Toll Road during AM and PM peak periods
74	350	Transit	US 29 BRT	Implement BRT service on US 29 Lee Highway in a dedicated lane where facility is six lanes.
75	353	Transit	Van Dorn Intermodal Facility	Construct Intermodal facility in the vicinity of Van Dorn Metro station to facilitate transfers between Metrorail, West End Transitway, and local transit service.

**Segment 10-1: Braddock Road/VRE Manassas — Rt. 28 to I-495**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
76	354	Roadway	I-495 Express Lanes - Springfield to Wilson Bridge	Extend I-495 Express Lanes from Springfield across Wilson Bridge into Maryland
77	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395
78	357	Roadway	Braddock Rd Widening, VA-28 to County Line	Widen Braddock Rd to four lanes between VA-28 and the Fairfax County Line
79	358	Roadway	Euclid Avenue Extension	Extend four lane Euclid Avenue north from Prescott Ave to Route 28 south of Bull Run



**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	1	Transit	VA 7 Transit: Tysons - Mark Center	Construct Bus Rapid Transit line along VA 7 between Tysons and Mark Center with a connection to East Falls Church Metrorail Station
2	4	Roadway	VA 7 Widening, Seven Corners to Bailey's Crossroads	Widen VA 7 from four to six lanes between Seven Corners and Bailey's Crossroads
3	12	Bike/Ped	Leesburg-Alexandria VA 7 Trail	Construct trail along VA 7 from Leesburg to Alexandria
4	22	Bike/Ped	Bike Lanes Route 7 - Alexandria to Seven Corners	Construct protected bike lanes on both sides of VA 7 between Alexandria and Seven Corner. Connect with City of Falls Church's bicycle network.
5	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
6	46	Roadway	US 50 Widening, City of Fairfax to Arlington County	Widen US 50 inside the Beltway from 4 to 6 lanes from City of Fairfax to Arlington County. The project would include intersection improvements, including signalization improvements, and pedestrian and bike facilities
7	49	Transit	US 29 / US 50 Priority Bus	Implement priority bus service along US 29 and US 50 between Fair Oaks and Washington DC.



**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
8	60	Bike/Ped	Arlington Regional Trail Network	<p>Provide dedicated bike facilities, bikesharing and key sidewalk improvements on north-south corridors in Arlington to connect major east-west corridors with each other. Example corridors includes Carlin Springs Road, Walter Reed Drive/Fillmore Street, Harrison St, Washington Blvd, Rt 110, and others. Network also includes:</p> <ul style="list-style-type: none"> <li>-Trail parallel to Washington Blvd between Arlington Blvd and Columbia Pike</li> <li>-Rehab of Custis Trail to current VDOT shared used path design and construction specifications in Rosslyn</li> <li>-Extension of Custis Trail north of I-66 between Kennebec and Quantico</li> <li>-Long Bridge Park Esplanade extension to Mt Vernon Trail</li> <li>-Arlington Blvd trail</li> <li>-Theodore Roosevelt Bridge connection to Mt Vernon Trail and Marine Corps War Memorial</li> <li>-Dedicated cycling facility along the Route 50 service road (south side), between N. Rhodes St. and N. Meade St.</li> <li>-Expansion of Arlington bicycle commuter routes: Bluemont Junction Trail, Custis</li> </ul>
9	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
10	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
11	63	Transit	Route 50 Express Bus	Improve Route 50 - Orange Line bus connections.

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.
13	68	Roadway	Little River Turnpike Widening	Widen Little River Turnpike (VA 236) from 4 to 6 lanes between City of Fairfax and I-395
14	71	Transit	Merrifield-Tysons BRT / LRT	Construct enhanced transit service (BRT/LRT) between Fairfax Hospital in Merrifield to Tysons. Includes 6 lanes (4 GP + 2 Transit) on Gallows Rd.
15	76	Roadway	Crystal City, Pentagon City, Potomac Yard Street Grid Improvements	Construct an improved grid network of streets in Crystal City, Pentagon City, and Potomac Yard

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
16	78	Transit	DASH Transit Service Enhancements and Expansion	DASH Transit Service Enhancements: including new cross-town services and funding for additional buses to expand service on existing and new routes, circulators and trolleys within and between activity centers and expand bus storage and maintenance facilities; also includes transit stop improvements (bus shelters, real time information signs, bus stop benches, pads for ADA); upgrade to new and/or upgraded regional fare system including new fare collection technology; Provide transit service connection between Eisenhower Metrorail Station and King Street Metrorail Station; Provide transit service connection between Van Dorn Metrorail Station and the Landmark Mall vicinity; Provide east-west transit service between Braddock Rd Metrorail Station and Old Town / King St. Metrorail Station .
17	79	Transit	West End Transitway	Construct a four-mile segment of the dedicated bus lanes between the Van Dorn Metro station and Arlington County. This project will also provide pedestrian and bike facilities in the corridor
18	80	Transit	I-395 Bus Lanes	Construct bus lanes between Pentagon Transit Center and 14th Street using inside shoulders of Rochambeau Memorial Bridge (I-395)
19	82	Transit	Widen Long Bridge	Widen the Long Bridge to 4 tracks to accommodate additional rail capacity for commuter (VRE), intercity (Amtrak, DC2RVA), and freight (CSXT) services.
20	84	Transit	Crystal City Metro Station Multimodal Improvements	Enhance bus docking capacity and passenger facilities at the Crystal City Metro station
21	85	Transit	Crystal City Metro Station Second Entrance	Construct a second entrance to the Crystal City Metro station (near Crystal Drive and 18th Street S) providing connections to Crystal City VRE Station and DCA.

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
22	86	Bike/Ped	Alexandria Bike and Ped Trails Construction and Reconstruction	Reconstruct Holmes Run Trail from North Ripley Street to I-395; Construct trails along local streets in the Beauregard Street and Van Dorn Street corridor, this facility will provide a north-south connection to the City's Holmes Run Trail, running east west, and connecting bicycle users to Mark Center corridor; Construct pedestrian and bicycle bridge over Holmes Run at Morgan St; Implement and construct projects in the City's Ped Bike Plan; Construct bicycle improvements along Royal St between Jones Point and Bashford St, include signage, traffic calming
23	89	Transit	US 1 BRT	Construct along US 1 BRT with stations at Beacon Hill, Hybla Valley, Fort Belvoir, Penn Daw, Pohick Rd, Woodlawn, and South County Government and with transit transfer centers at Kingman Rd and Fort Belvoir. Includes US 1 widening between VA 235 and I-495.
24	91	ITS/ICM	I-95/I-395 ICM Program	<p>I-95/I-395 ICM Program:</p> <ul style="list-style-type: none"> <li>-Multimodal Traveler Information: Integration of roadway, transit, and parking information.</li> <li>-Dynamic Ramp Metering: Upgrade of existing ramp metering system.</li> <li>-Parallel Arterial Operations Improvements: Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-95 corridor (including US 1 and Telegraph Rd)</li> <li>-Parking Management: Expansion of pilot program to additional PNR lots.</li> <li>-Decision Support System: Software system to support corridor management activities across multiple facilities and modes.</li> </ul>

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
25	97	Transit	Columbia Pike Priority Transit Network (PrTN)	Provide priority transit service from Skyline to Crystal City via Pentagon City, including limited-stop bus service, improved headways, and 24 transit stations.
26	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
27	100	Transit	Metrorail Fleet Expansion	Expand Metrorail fleet to enable operations of 100 percent eight-car trains during peak period. Expansion, upgrades, and replacements of the rail car fleet, traction power substations, power cabling, third rail, train control systems, and storage facilities.
28	101	Bike/Ped	Columbia Pike Corridor urban bike/ped network	Improve bicycle and pedestrian infrastructure in and around the Columbia Pike corridor, including bikeways, bikesharing, and key sidewalk improvements, to convert SOV trips to, within, and between activity center areas from car to bike/pedestrian. Includes parallel bike routes along 9th St, 11th St, and 12th in the vicinity of Columbia Pike.

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
29	102	Bike/Ped	Arlington TDM Package	<p>Improve and expand the commuter assistance and other programs provided by Arlington County Commuter Services. Includes new commuter stores and next generation IT services, implementation of transportation system management and communication upgrade throughout the County, and improvements to traveler information via creation or expansion of informational, wayfinding, alert, or real-time signs providing information on multimodal transportation options.</p> <p>Develop a system of coordinated mobility hubs along major corridors to fully integrate transit, bikesharing, carsharing, ridesharing, pedestrians, bicycling, ride hailing and other shared use services. Develop, coordinate, implement, and/or expand shared-ride and ride-hailing services for first mile/last mile connections to transit and mobility hubs as well as to activity centers, parking, and pick-up hotspots. Includes support for autonomous vehicles, casual carpooling, on-demand services</p>



**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
30	103	ITS/ICM	Arlington ITS Projects	Implement intelligent transportation systems and adaptive traffic control system on regional corridors within Arlington County, including: - Enhancement of Traffic System and Technology to a Smart Traffic Signal system; - Installation of Intelligent Transportation System (ITS) and corresponding Adaptive Traffic Control System program on US 29 Lee Highway to better manage traffic flow. Includes additional Bluetooth devices, count stations, CCTV cameras, and FLIR detectors and upgraded signals for better-timed connection with I-66; - Reconstruction of traffic signals to meet current standards, including upgrade from span wire to mast arm
31	104	Transit	Metro station access and capacity improvements	Construction of station access and capacity improvements at: Rosslyn, Pentagon, Vienna, Foggy Bottom, Farragut West, McPherson Square, Metro Center, L'Enfant Plaza, and Union Station. Also includes station area lighting and customer amenities.
32	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
33	112	Bike/Ped	Crystal City Corridor Urban Ped/Bike Network	Improve bicycle and pedestrian infrastructure in and around Arlington's Blue/Yellow Metro corridor, including bikeways, bikesharing, and key sidewalk improvements, to convert SOV trips to, within, and between Metro station areas from car to bike/pedestrian, and to enable access to/from Metro stations to high-density housing and job centers.
34	113	ITS/ICM	Alexandria ITS Projects	Funding for transportation technologies to improve system efficiencies in the City of Alexandria, Real-Time Adaptive Control and Data Management System - Build out and improve Traffic Signal System with fiber-optics; transit signal priority
35	115	Transit	VRE Fredericksburg and Manassas Line Off-peak Service	Run bi-hourly trains during midday period between peaks on both Manassas and Fredericksburg Lines
36	116	Transit	Implement integrated regional rail service / VRE-MARC run-through service	Implement run-through service by integrating intercity rail service with MARC and AMTRAK
37	117	Transit	Metroway - Pentagon City Extension	Construct extension of Metroway to Pentagon City, which includes reconfiguration of 12th Street S between S Eads St and S Clark St for exclusive transit lanes. Removal of obsolete section of Clark St and realignment of Clark St with Bell St to improve street network. Intersection improvements around 23rd St S and US 1. Implement Complete Street improvements to Army Navy Drive.
38	122	Transit	ART Service Restructuring and Expansion	Purchase of buses in support of Arlington Transit (ART) service restructuring and expansion. Includes implementation of priority bus service on Glebe Road between Marymount University and Potomac Yard Metro via Ballston.
39	127	Transit	Blue and Yellow Line Bus Facility Improvements	Expand and improve bus bays, passenger facilities, and bus circulation and access paths at all Yellow and Blue Line stations and transit centers in the I-395/ US-1 corridor

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
40	193	Transit	Alexandria Bus Network ITS	Install Automatic Vehicle Location (AVL) technology on DASH bus to provide real-time arrival info, computer-aided dispatch, automated passenger counters (APC) and automated garage mapping system.
41	194	Transit	Landmark Transit Station Improvements	Construct a transit center on the Landmark Mall site, construct transit commuter hub or kiosk at the future West End Transit Center
42	196	Roadway	West End Alexandria Roadway Improvements	Construct a multimodal bridge from Van Dorn Metro station to Pickett Street; Extend Library Ln North to Connect with Van Dorn St; ellipse at Beauregard and Seminary; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; add protected, permissive left turn lane along NB and SB Van Dorn; Widen Van Dorn St Bridge over Duke St to accommodate pedestrians; Replace shared left/thru turn lanes along NB and SB Van Dorn St with separate left turn lanes; Construct new roadway along Fairfax County Line to connect Edsall Rd, S Pickett St, Farrington Ave; Intersection improvements along Van Dorn Street at Eisenhower, Edsall, Pickett; Straightening Eisenhower; New High Street Addition and Bridge as part of Alexandria's Landmark Van Dorn Area Plan
43	199	Transit	New Central/East County to Pentagon/DC OmniRide	Implement new transit route between Central East Prince William County, Pentagon, and downtown DC via the I-95 HOV lanes. Requires 4 additional buses.
44	210	Roadway	Widen auxiliary lanes along I-495	Widen auxiliary lanes along various segments of I-495 from north of Hemming Ave Underpass to Georgetown Pike. Reconstruct the I-495 auxiliary lane from VA 7 to I-66

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
45	291	Transit	Arlington mobility hubs	Develop a system of coordinated mobility hubs along major corridors to fully integrate transit, bikesharing, carsharing, ridesharing, pedestrians, bicycling, ride hailing and other shared use services;
46	292	Transit	Off-vehicle fare collection	Develop a system of off board fare collections for ART and WMATA buses.
47	296	Roadway	14th Street Bridge HOT lanes	DC project to implement HOT on 14th St Bridge
48	297	Transit	Increase off-peak transit service on I-95 Corridor	Add bus trips to the existing service: Lake Ridge-DC, Lake Ridge-Pentagon/Crystal City; Dale City/Potomac Mills-Pentagon/Crystal City; Dale City/Potomac-Mills/Rosslyn/Ballston; Montclar/Dumfries-Pentagon/DC; Montclair/Dumfries-Pentagon; Dale City/Potomac Mills-Mark Center
49	299	Transit	VRE Alexandria-DC Rail Capacity Improvements	Construct fourth track LE to VA Construct fourth track RO to AF Alexandria track 1 access/ Slater's Lane crossover Construct Washington Union Station station/access improvements Construct VRE L'Enfant station/access improvements Construct VRE Crystal City station/access improvements

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
50	301	Transit	VRE Manassas Line Rail Capacity Enhancements	<p>1. Increase frequencies to 20-min in peak period. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Construct track capacity enhancements (additional track and capacity improvements) from Alexandria/AF to Manassas Line terminus, including existing Broad Run VRE station.</li> <li>b. Purchase additional rolling stock in support of 8-car trains and peak service improvements (TIP reflects purchases for 8-car trains in peak hour, additional needed beyond CLRP commitment).</li> <li>c. Construct/expand VRE equipment storage and maintenance facilities in Manassas and midday storage in Washington, D.C.</li> <li>d. Construct station/platform, parking and access improvements at VRE Manassas Line stations, including expand existing Broad Run VRE station/parking/access.</li> <li>e. Improve information sharing through ITS/TSM enhancements for improved communications.</li> </ul> <p>Rail improvements in support of I-81 / US-29 Intercity Passenger Rail (DRPT/AMTRAK)</p>
51	317	Transit	Pentagon City Metrorail 2nd Entrance	Construct 2nd elevator entrance adjacent to Fashion Center Mall
52	319	Transit	Crystal City Bus Improvements	Improving bus circulation, operations, and safety in the Crystal City area.
53	326	Transit	Manassas Line Peak Period Service Expansion	<p>Improve frequencies to 15-min. peak period and new reverse peak period service. In support of this improvement:</p> <ul style="list-style-type: none"> <li>a. Purchase additional rolling stock</li> <li>b. Construct/expand VRE equipment storage and maintenance facilities</li> <li>c. Rail Line capacity improvements</li> <li>d. Station/Parking Access improvements</li> <li>e. ITS/TSM improvements.</li> </ul>
54	331	Transit	Tysons Express Bus	Implement express bus service between Tysons and Huntington Metro, and Tysons and Franconia-Springfield Metro.

**Segment 10-2: Columbia Pike/Braddock Road — I-495 to Pentagon**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
55	336	Roadway	Braddock Road Intersection Improvements: Guinea Road to Ravensworth Road	Task Force voted to improve selected intersection only from Guinea Road to Ravensworth Road . Project includes access mgmt, intersection improvements, signalization, and pedestrian improvements
56	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
57	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
58	343	Transit	VRE Express Service - Fredericksburg Line	Implement peak period express service on VRE Fredericksburg Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Spotsylvania, Leeland Rd, Woodbridge, Alexandria, Crystal City, L'Enfant, and Union Station
59	344	Transit	VRE Express Service - Manassas Line	Implement peak period express service on VRE Manassas Line: - One express train and three local trains per hour during AM and PM peak periods - Stops at Broad Run, Manassas Park, Burke Centre, Alexandria, Crystal City, L'Enfant, and Union Station
60	352	Transit	ART Service Improvements	Increase ART service on crowded corridors in Arlington County, supported by capacity increases at Heavy Maintenance / Bus Parking facilities
61	355	Roadway	I-495 / I-395 Lane Restrictions	Implement lane restrictions for commercial trucks on I-495 and I-395
62	356	Transit	MARC / VRE Crossover Service	Implement MARC Crossover service to Alexandria and points south and west and VRE Crossover service to destinations including New Carrollton, College Park, and points north via Union Station during AM and PM peak hours



**Segment 11-1: US 50 — Fauquier County Line to City of Fairfax**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
1	14	Transit	Transit Connections to Silver Line Phase II Stations	Expand bus service and connections to Silver Line Phase II stations. Provide feeder bus service between Metrorail and P&R lots. Purchase buses for new service.
2	27	Roadway	VA 28 Widening, I-66 to Loudoun	Widen VA 28 to 10 lanes between I-66 and Loudoun County (8 GP + 2 HOV)
3	29	Roadway	Centreville Rd Widening	Widen VA 657 (Centreville Road) to six lanes between Herndon Pkwy and Walney Rd
4	32	Transit	VA 28 LRT/BRT	Construct LRT / BRT line parallel to VA 28 from Manassas to Dulles Airport
5	33	Bike/Ped	VA 28 Trail	Construct a shared used path on both sides of VA 28 from Prince William County line to Dulles Toll Road
6	42	Transit	Fairfax County Pkwy Priority Bus Service	Implement priority bus service on Fairfax County Parkway between Herndon/Monroe Metrorail station and Ft. Belvoir
7	45	Transit	Vienna Metro Feeder Bus Service Expansion	Add new routes* and improve service levels on existing routes that serve the Vienna Metrorail station
8	48	Transit	Extend High Capacity Transit to Centreville	Extend High Capacity transit from Metrorail to Centreville Potential modes include LRT, BRT, or improved bus service on corridor between stations. Construction of stations and PNR lots at Centreville, Stringfellow, and Government Center / Fair Oaks, and a station serving the City of Fairfax.
9	49	Transit	US 29 / US 50 Priority Bus	Implement priority bus service along US 29 and US 50 between Fair Oaks and Washington DC.
10	55	Bike/Ped	US 29 trail	Construct a trail along US 29 from Dixie Hill Rd to EFC Metrorail Station
11	56	Roadway	Widen VA 123, Fairfax to Vienna	Widen VA 123 to six lanes between City of Fairfax and Town of Vienna

**Segment 11-1: US 50 — Fauquier County Line to City of Fairfax**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
12	61	ITS/ICM	East-West ICM Program: Parallel Arterial Operations Improvements	Deployment of intelligent signal monitoring/control technology to improve travel on parallel routes in the I-66 corridor, including the deployment of intelligent signal monitoring/control technology to improve travel on east-west arterial facilities, including US 29, US 50, VA 7, and VA 236.
13	62	ITS/ICM	Connected Vehicle/Traffic Signal Integration Deployment	Traffic signal software integration to support future connected vehicle applications on multiple corridors including: I-66, I-495, US 29, US 50, and VA 7
14	65	Transit	Duke Street Transitway	Construct a four-mile segment of the high-capacity transitway on Duke Street within Alexandria. Reconstruct Duke Street from Wheeler Ave to Jordan St w/ a center left-turn lane. Construct bicycle and pedestrian improvements along corridor. The first phase would create dedicated transit lanes in existing six-lane sections of Duke Street between Landmark Mall and Jordan Street and between Roth Street and Diagonal Road. Between Jordan Street and Roth Street, transit would operate in mixed flow.
15	95	Roadway	VA 123 Widening, Braddock Rd to Fairfax	Widen VA 123 to six lanes between City of Fairfax and Braddock Rd
16	98	Transit	VA 236 Bus Priority, Alexandria to Fairfax	Implement bus priority service on VA 236 between Alexandria and Fairfax.
17	99	Transit	VA 123 Priority Bus Service	Add bus priority service on VA 123 to serve Tysons.
18	105	Transit	Metrobus Priority Corridor Network Plan	PCN Improvements will include improved transit signal priority and exclusive bus lanes, increased frequency and span of service. Improved customer information, expanded fare payment options, enhanced bus stops and facilities. Metrobus service improvements on these routes: CC-PY{9A, E, S, X}; Leesburg Pike{28A, 28X, 28F, G, T}; Little River Tpke/Duke St{29K, N, 29C, E, H}

**Segment 11-1: US 50 — Fauquier County Line to City of Fairfax**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
19	109	Transit	Loudoun County Phase III Bus Service	Implement Phase III bus service in Loudoun County, including local, express, intercounty, commuter, and demand-response services
20	119	Roadway	Construct Northstar Blvd from Shreveport Dr to US 50	Construct 4 lane Northstar Blvd facility from Shreveport Dr to US 50
21	131	Transit	US 50 Dulles Park and Ride Lot	Construct/expand US 50 Dulles Park and Ride Lot east of Loudoun County Pkwy. Anticipated capacity is 250 spaces.
22	134	Roadway	Fairfax Boulevard Multimodal Improvements	Implement multimodal improvements and improve local connections along Fairfax Boulevard. Enhance transit, ped-bike and roadway facilities and infrastructure.
23	135	Roadway	Jermantown Rd Multimodal Improvements	Implement multimodal improvements and improve local connections along Jermantown Rd. Enhance transit, ped-bike and roadway facilities and infrastructure. Includes widening of Jermantown Road to four lanes south of the I-66 bridge as well as extension of Government Center Parkway. May include participation with Fairfax County on widening of bridge over I-66.
24	136	Roadway	VA 123 Multimodal Improvements	Implement multimodal improvements, improve intersections and local connections, and improve transit service along VA 123. Enhance transit, ped-bike and roadway facilities and infrastructure.
25	137	Roadway	Old Lee Highway Multimodal Improvements	Implement multimodal improvements along Old Lee Highway. Enhance transit, ped-bike and roadway facilities and infrastructure.
26	138	Bike/Ped	Fairfax Citywide Bike-Ped Access	Improve on- and off-road bike and pedestrian facilities, routes, and infrastructure along and adjacent to City of Fairfax corridors to provide better access to Metrorail and regional trails. Expand bikeshare, bike storage, and signage. Includes the extension of the George Snyder Trail.

**Segment 11-1: US 50 — Fauquier County Line to City of Fairfax**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
27	139	Roadway	Northfax Network Improvements	Improved connections and circulation for all modes in the Northfax node. Improvements to and along Fairfax Boulevard in the vicinity of the Northfax intersection including ped-bike safety, local access, upgraded infrastructure and new routes. Improve vehicular circulation, access and movements in proximity to the Northfax intersection (Routes 29/50/123). Includes extension of University Drive.
28	141	Roadway	Northfax Intersection Improvements	Geometric improvements to intersection including extension of a 3rd northbound lane on Route 123 from Route 29/50 to Eaton Place, the addition of a dual left turn from southbound Route 123 to eastbound Route 29/50, the correction of substandard existing lane shifts within the project limits, the extension of turn lanes, and access management improvements where feasible. Also includes a new drainage system, including a major culvert.
29	142	Transit	Transit Enhancements, City of Fairfax	Upgrade and construct transit stops and shelters on CUE routes with improved facilities, design, technology, and/or ped-bike access. Expand transit service and purchase additional buses.
30	156	Roadway	Construct Arcola Blvd	Construct Arcola Blvd between Loudoun County Pkwy (VA 607) (near intersection of Arcola Rd and Old Ox Rd) and US 50 (John Mosby Highway) - 6 lanes. Construct grade-separated interchanges at Loudoun County Pkwy and US 50.
31	159	Roadway	Widen Dulles West Blvd from VA 606 to VA 659	Widen Dulles West Blvd (formerly Glascock Blvd) from 4 to 6 lanes between Loudoun County Pkwy (VA 606) and Arcola Blvd. Construct a four lane facility between Arcola Blvd and Northstar Blvd (VA 659 relocated).
32	160	Roadway	Extend Dulles West Blvd	Construct Dulles West Blvd (formerly Glascock Blvd) between Northstar Blvd (VA 659 Relocated) and Lenah Loop Rd: Construct a 2-lane roadway.

**Segment 11-1: US 50 — Fauquier County Line to City of Fairfax**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
33	165	Roadway	Widen US 50, Northstar Blvd to Lenah Loop Rd	Widen US 50 (John Mosby Highway) to 4 lanes between Northstar Blvd (VA 659 relocated) and Lenah Loop Rd. Construct a new interchange at VA 659 Relocated (Northstar Blvd).
34	168	Roadway	Widen Loudoun County Pkwy, Old Ox Rd to US 50	Widen Loudoun County Parkway to 8 lanes between Old Ox Rd (VA 606) and US 50 (John Mosby Highway). Construct grade-separated interchanges at Old Ox Rd and US 50 and explore other grade-separated interchanges. Study alternative uses (bus lanes, HOV) along the corridor.
35	169	Roadway	Widen Loudoun County Pkwy, US 50 to Braddock Rd	Widen Loudoun County Pkwy from 4 to 6 lanes between US 50 (John Mosby Highway) and Braddock Rd (VA 620) and construct grade-separated interchange at US 50.
36	178	Roadway	Widen Evergreen Mills Rd, VA 606 to VA 659	Widen Evergreen Mills Rd (VA 621) from 2 to 4 lanes between Loudoun County Pkwy (VA 606) and Northstar Blvd (VA 659).
37	187	Roadway	Widen Northstar Blvd from Belmont Ridge Rd to Braddock Rd	Widen/Construct Northstar Blvd (VA 659) to 6 lanes from Belmont Ridge Rd (VA 659) to Braddock Rd (VA 620). Construct grade-separated interchange at US 50. Potential grade-separation at Evergreen Mills Road.
38	200	Transit	New Manassas to Dulles OmniRide	Implement new transit service from Manassas to Dulles Airport via Route 28. Requires additional 4 buses.
39	201	Transit	New Gainesville / Haymarket to Dulles OmniRide	Implement new transit service from Gainesville and Haymarket to Dulles Airport via I-66 HOV lanes and Route 28. Requires 2 additional buses.
40	216	Roadway	Widen US 29, VA 665 to Pickwick Rd	Widen US 29 from 4 to 6 lanes from Waples Mill Rd to Pickwick Road
41	222	Roadway	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes	Widen/upgrade/convert VA 286 Fairfax County Parkway to include HOV lanes from VA 267 Dulles Toll Road to I-66.



**Segment 11-1: US 50 — Fauquier County Line to City of Fairfax**

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
42	226	Roadway	Construct VA 234 Bypass North, I-66 to US 50	Construct VA 234 Bypass North (Bi-County Parkway) from I-66 to US 50. Close US 29 from Pageland Lane to the bridge over Bull Run and close VA 234 Sudley Road from the southern park boundary to the northern park boundary.
43	307	Roadway	US 15 "hot spot" and safety improvements	"Hot Spot" and safety improvements on US 15 from the Prince William County Line to the Maryland State Line, as directed by the Board.
44	310	Roadway	US 50 Widening / Interchanges	Widen US 50 (John Mosby Highway) to 6 lanes from Poland Rd to Northstar Blvd. Construct new interchanges at/near VA 2200 (Tall Cedars Parkway), VA Route 2201 (South Riding Blvd), VA 606 (Loudoun County Parkway), VA 606 Extended (Arcola Blvd/West Spine Rd), and VA 659 Relocated (Northstar Blvd). Potential grade-separation (interchange or overpass) at VA 609 (Pleasant Valley Road).
45	311	Roadway	Widen Belmont Ridge Road	Widen Belmont Ridge Road (VA 659) to 4 lanes from Shreveport Drive to Evergreen Mills Road (VA 621).
46	313	Transit	Transit buses purchase	Purchase of buses in support of Loudoun County's transit services.
47	314	Roadway	US 50 Improvements	Improvements along US 50 (John Mosby Highway/Washington Street) from the Fairfax County Line to the Fauquier County Line.
48	330	Transit	Fairfax County Express Bus, Reston / Franconia-Springfield	Implement express bus service along VA 286 Fairfax County Parkway between Reston Metro and Franconia-Springfield Metro
49	340	ITS/ICM	Northern Virginia ITS/ICM Improvements	Implement ITS and integrated corridor management strategies on key regional corridors and parallel facilities in Northern Virginia.
50	341	TDM	Northern Virginia TDM Strategies	Implement and expand TDM initiatives and programs in major employment centers within Northern Virginia
51	347	Roadway	VA-28 Reversible HOV Lanes	Implement reversible HOV lanes on VA-28 between I-66 and the Dulles Toll Road during AM and PM peak periods



Segment 11-1: US 50 — Fauquier County Line to City of Fairfax

Reference Number	TransAction Project ID	Project Type	Project Name	Project Description
52	348	Transit	Reston Express Bus	Implement Express bus service between Reston Town Center and Fairfax Center via Reston Parkway and West Ox Rd
53	350	Transit	US 29 BRT	Implement BRT service on US 29 Lee Highway in a dedicated lane where facility is six lanes.

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

MEMORANDUM

**FOR:** Members, Northern Virginia Transportation Authority

**FROM:** Chairman Martin E. Nohe, Planning and Programming Committee

**DATE:** June 5, 2017

**SUBJECT:** Approval to Enter into Program Management Agreement with VDOT

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- 1. Purpose.** To seek Northern Virginia Transportation Authority (NVTa) approval to enter into a Program Management Agreement via a Memorandum of Understanding (MOU) with the Virginia Department of Transportation (VDOT) and the Department of Rail and Public Transportation (DRPT), to submit a grant application to the U.S. Department of Transportation (USDOT). The grant application, entitled the *Northern Virginia Regional Mobility Initiative*, falls under USDOT's Advanced Transportation and Congestion Management Technologies Deployment Initiatives (ATCMTD) program.
- 2. Suggested Motion:** *I move approval to enter into a Program Management Agreement with VDOT, for the purpose of supporting a grant application by VDOT to the U.S. Department of Transportation (USDOT).*
- 3. Background.**
  - a. Integrated Corridor Management (ICM) is a relatively new approach, developed by USDOT, to address mobility and accessibility needs in highly congested corridors using proactive real time strategies to better balance travel demand and available capacity throughout a corridor rather than on individual facilities.
  - b. ICM places a strong emphasis on the use of technology rather than expansion of traditional infrastructure.
  - c. ICM enables integration of transportation operations across multiple jurisdictions and agencies, combined with innovative approaches to manage travel demand.
  - d. ICM offers an opportunity to mitigate congestion in the near term at a modest cost, while remaining easily reconfigurable when transportation infrastructure capacity is expanded.
  - e. ICM offers the additional advantage of enabling enhanced transportation management of non-recurrent congestion arising from severe weather, major sporting/recreational events, and incidents such as crashes or other emergencies.

If selected, this grant will enable several foundational ICM components to be deployed in Northern Virginia as part of a new Northern Virginia Regional Mobility Initiative. These components include a regional ICM decision support system, and a

regional data warehouse/portal.

VDOT is currently leading an initiative to develop a concept of operations and deployment plan for ICM in the 'East-West Corridor'.

The East-West Corridor encompasses many of Northern Virginia's regional multi-modal corridors from Route 7 to VRE's Manassas Line.

The East-West Corridor extends east from Route 15 to Arlington County and the City of Alexandria.

VDOT previously completed a similar ICM initiative in the I-95/I-395 Corridor.

Most of Northern Virginia is covered by one of these ICM initiatives.

The grant application for the Northern Virginia Regional Mobility Initiative, if successful, will enable deployment of the above referenced concept of operations of ICM to commence.

NVTA is a member of the Northern Virginia ICM Program Advisory Group that is leading the development of ICM in the East-West Corridor, together with VDOT, DRPT, FHWA, WMATA, MWAA, and Arlington County. Jurisdiction and agency staff and other regional stakeholders have been actively involved in the development in this initiative.

4. **Cost.** While the grant has a 50 percent match requirement, this requirement will be met using the Commonwealth's resources. There is no cost to the Authority associated with support of this grant application, other than minimal staff support.

If the grant application is successful, the Authority's responsibilities will be governed by the terms of the MOU between VDOT, DRPT, and NVTA. The MOU will not be developed until after receives a notice of award.

5. **Next Steps:** The application deadline for this grant is June 12, 2017. The USDOT is expected to announce successful applicants in early fall 2017.

NVTA endorsement and participation of the grant, is subject to all of rules and laws governing NVTA.

If the grant is awarded, NVTA staff will work with the NVTA Council of Counsels to develop a project management agreement and an MOU if necessary.

## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Monica Backmon, Executive Director

**DATE:** June 2, 2017

**SUBJECT:** Executive Director's Report

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1. **Purpose:** To inform the Northern Virginia Transportation Authority (NVTA) of items of interest not addressed in other agenda items.
2. **Transforming 66 Outside the Beltway Trucks in the Express Lanes.** At the May 11, 2017 Authority meeting, the Authority had a robust discussion regarding the provision of trucks being allowed in the express lanes. I was directed to contact Commissioner Kilpatrick to seek responses to some of the issues raised during the meeting. Attachment A is the result of the discussion with Commissioner Kilpatrick and VDOT staff regarding trucks in the I-66 Outside the Beltway Express Lanes.
3. **Transforming 66 Outside the Beltway Public Information Meetings.** VDOT and I-66 Express Mobility Partners (66 EMP), the partner selected to deliver the 66 Outside the Beltway project, are hosting public meetings at the following locations and times:
  - **Monday, June 12, 2017**  
Oakton High School Cafeteria  
2900 Sutton Road, Vienna, VA 22181
  - **Wednesday, June 14, 2017**  
Stone Middle School Cafeteria  
5500 Sully Park Drive, Centreville, VA 20120
  - **Thursday, June 15, 2017**  
Piney Branch Elementary School Cafeteria/Gym  
8301 Linton Hall Road, Bristow, VA 20136

All meeting times are 6-8:30pm. A brief presentation will be held at 7pm, followed by a question-and-answer session. Information will be provided on the current project status and schedule, 66 EMP concept plans, and upcoming activities in the I-66 corridor. Technical staff will be on hand to answer one-on-one questions before and after the presentation.

- 4. NVTA Five Year Strategic Plan.** The Authority will receive a briefing on the status of its first Five Year Strategic Plan at the September 14, 2017 meeting. The Strategic Plan builds upon the Authority's vision statement through the application of strategies to the adopted goals. This effort brings together the collaborative insights and suggestions from Authority Members, jurisdictions, agencies and NVTA staff.
- 5. Technology Project Plan.** At the March 23, 2017 Authority meeting, the Authority authorized the advancement of \$25,000 from the FY2018 budget to be used to initiate the Authority's Technology Project Plan. Interactive GIS maps of the adopted regional revenue funded projects and the 358 projects currently being considered as part of the TransAction Plan update, have been developed and are being added to the Authority's website. The use of this tool enables the public, stakeholders, Authority members and others to click on individual projects to see detailed project data, the nexus between projects, geographic distribution, modal balance, etc.
- 6. NVTA Standing Committee Meetings**
  - **Planning and Programming Committee:** The NVTA Planning and Programming Committee will meet on Friday, September 8, 2017 at 10:00am.
  - **Finance Committee:** The NVTA Finance Committee will meet on Thursday, June 15, 2017 at 1:00pm.
  - **Governance and Personnel Committee:** The NVTA Governance and Personnel Committee will meet on Thursday, September 14, 2017 at 6:00pm.
- 7. NVTA Statutory Committee Meetings:**
  - **Planning Coordination Advisory Committee:** The PCAC will meet on Wednesday, June 28, 2017 at 6:30pm.
  - **Technical Advisory Committee:** The TAC will meet on Wednesday, June 21, 2017 at 7:00pm.
- 8. CMAQ-RSTP Transfers:**
  - CMAQ and RSTP Transfers requested since the last Executive Director's report are presented in Attachment B.
- 9. FY2014-2016 NVTA Regional Projects Status Report:**
  - Please note the updated Regional Projects Status Report (Attachment C), which provides a narrative update for each project and the amount of project reimbursements requested and processed to date.

**Attachments:**

- A.** Responses to the I-66 Outside the Beltway Truck Discussion
- B.** CMAQ-RSTP Transfers
- C.** FY2014-2017 NVTA Regional Projects Status Report

**From:** Shaw, Susan, P.E. (VDOT) [<mailto:Susan.Shaw@VDOT.Virginia.gov>]  
**Sent:** Friday, June 02, 2017 11:05 AM  
**To:** Monica Backmon  
**Cc:** Renee Hamilton; Holland, Michelle (VDOT); Prunty, Rob/WDC  
**Subject:** Additional Information on I-66 and Trucks

Monica, Attached for your information and use are some facts regarding trucks in the I-66 Corridor. Let me know if you have any questions or need additional information.

- Today the percentage of large trucks on I-66 Outside the Beltway is 3-4% of the daily traffic, and during peak periods is 1-2% of the traffic.
- Today I-66 carries fewer large trucks during peak hours than I-81 or I-95 (both by percentage of total traffic and by number of large trucks).
- Future projections based upon our I-66 Outside the Beltway traffic model shows that large trucks are expected to make up about 1-2% of the express lanes traffic. These percentages remain the same in the future, and additional truck traffic in the I-66 corridor is not anticipated as a result of allowing large trucks to use the express lanes.
- The Express Lanes will be designed to safely accommodate large trucks and to be posted at 70 mph. Roadway and ramp designs (such as ramp lengths allowing deceleration, turning radii, lane and ramp widths, etc.) will take into account large trucks, and will be developed in accordance with State and Federal standards and procedures. Final designs will be approved by VDOT and FHWA.
- Braking distances of large trucks compared to passenger cars are nearly the same (only about 100 feet different), since the 1997 federal mandate to require antilock braking systems in trucks.

In addition, we have added some frequently asked questions to our website about large trucks. Please see the following link.

<http://outside.transform66.org/faqs/default.asp>

*Susan N. Shaw, PE, DBIA, CCM*  
Megaprojects Director  
Northern Virginia District

Virginia Department of Transportation | 4975 Alliance Drive, Fairfax, VA 22030 | office 703.259.1995 | cell 571.221.5219



## NORTHERN VIRGINIA TRANSPORTATION AUTHORITY

### MEMORANDUM

**TO:** Chairman Martin E. Nohe and Members  
Northern Virginia Transportation Authority

**FROM:** Monica Backmon, Executive Director

**DATE:** June 2, 2017

**SUBJECT:** Approval of Reallocation of Congestion Mitigation and Air Quality (CMAQ) and Regional Surface Transportation Program (RSTP) funds for the Town of Vienna, the Virginia Department of Transportation, and Fairfax County

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- 1. Purpose:** To inform the Northern Virginia Transportation Authority (NVTa) of the Regional Jurisdiction and Agency Coordinating Committee (RJACC) Approval of Reallocation of Congestion Mitigation and Air Quality (CMAQ) and Regional Surface Transportation Program (RSTP) funds for the Town of Vienna, the Virginia Department of Transportation, and Fairfax County.
- 2. Background:** On September 11, 2008, the Authority delegated the authority to approve requests to reallocate Congestion Mitigation and Air Quality (CMAQ) and Regional Surface Transportation Program (RSTP) funding between projects that were previously approved by the NVTa to the Regional Jurisdiction and Agency Coordinating Committee (RJACC).

On April 27, 2017, the Town of Vienna requested the following reallocation:

- \$30,329 in prior year CMAQ funds from Traffic Signal Optimization (UPC 106524) to Traffic Signal Reconstruction (UPC 100489). The Traffic Signal Optimization project has been completed.

On May 5, 2017, the Virginia Department of Transportation (VDOT) requested the following reallocation:

- \$1,542,781 from surplus CMAQ funds from Construction of Northern Virginia Districtwide Traffic Signals to the on-going Districtwide Signal Optimization project. VDOT identified the surplus funds, which were programmed through the Council of Governments prior to the existence of the Authority. VDOT has verified that the funds remain as VDOT allocations, and there is federal CMAQ apportionment available to support the obligation.

On May 25, 2017, Fairfax County requested the following reallocations:

- \$150,000 in FY 2016 CMAQ funds from the Reston Metrorail Access Group (RMAG) project (UPC 100470) to Route 123 North Sidewalk project (UPC 103280).
- \$450,000 in FY 2016 CMAQ funds from the RMAG project (UPC 100470) to the Route 123 South Sidewalk project (UPC 103281).
- These transfers are needed due to recent bids that are in excess of construction cost estimates.

The RJACC approved these requests at their meeting on May 25, 2017.

**Attachment(s):** DRAFT Letter to VDOT NOVA District Administrator Cuervo  
Request from the Town of Vienna  
Request from the Virginia Department of Transportation  
Request from Fairfax County

**Coordination:** Regional Jurisdiction and Agency Coordinating Committee



## Northern Virginia Transportation Authority

*The Authority for Transportation in Northern Virginia*

June 8, 2017

Ms. Helen Cuervo  
District Administrator  
Virginia Department of Transportation  
4975 Alliance Dr. Suite 4E-342  
Fairfax, Virginia 22030

Reference: Request to Reallocate Congestion Mitigation and Air Quality (CMAQ) and Regional Surface Transportation Program (RSTP) funds for the Town of Vienna, the Virginia Department of Transportation, and Fairfax County

Dear Ms. Cuervo:

On September 11, 2008, the Authority delegated the authority to approve requests to reallocate Congestion Mitigation and Air Quality (CMAQ) and Regional Surface Transportation Program (RSTP) funding between projects that were previously approved by the NVTA to the Regional Jurisdiction and Agency Coordinating Committee (RJACC).

On April 27, 2017, the Town of Vienna requested the following reallocation:

- \$30,329 in prior year CMAQ funds from Traffic Signal Optimization (UPC 106524) to Traffic Signal Reconstruction (UPC 100489). The Traffic Signal Optimization project has been completed.

On May 5, 2017, the Virginia Department of Transportation (VDOT) requested the following reallocation:

- \$1,542,781 from surplus CMAQ funds from Construction of Northern Virginia Districtwide Traffic Signals to the on-going Districtwide Signal Optimization project). VDOT identified the surplus funds, which were programmed through the Council of Governments prior to the existence of the Authority. VDOT has verified that the funds remain as VDOT allocations, and there is federal CMAQ apportionment available to support the obligation.

On May 25, 2017, Fairfax County requested the following reallocations:

- \$150,000 in FY 2016 CMAQ funds from the Reston Metrorail Access Group (RMAG) project (UPC 100470) to Route 123 North Sidewalk project (UPC 103280).
- \$450,000 in FY 2016 CMAQ funds from the RMAG project (UPC 100470) to the Route 123 South Sidewalk project (UPC 103281).
- These transfers are needed due to recent bids that are in excess of construction cost estimates.

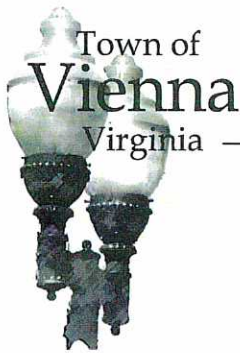
NVTA's delegation requires that the RJACC notify the NVTA of these requests. The RJACC approved these requests on May 25, 2017, and the NVTA was informed at their June 8, 2017, meeting. The NVTA has not objected to these reallocations.

Please take the necessary steps to reallocate these funds in the Transportation Improvement Program and the State Transportation Improvement Program. Thank you very much.

Sincerely,

Noelle Dominguez  
NVTA RJACC Chairman

cc: Martin E. Nohe, Chairman, NVTA  
Monica Backmon, Executive Director, NVTA  
Michael Gallagher, Director, Town of Vienna Department of Public Works  
Tom Biesiadny, Director, Fairfax County Department of Transportation



Department of Public Works

Michael J. Gallagher, P.E.  
*Director*

April 27, 2017

Pierre Holloman, Principal Planner  
T&ES, City of Alexandria  
421 King Street, Suite 401  
Alexandria, Virginia 22314-3121

RE: Reallocation of CMAQ funds, UPC 106524 to UPC 100489

Dear Mr. Holloman,

The Town of Vienna requests NVT A JACC concurrence to move \$30,329 from UPC 106524 Traffic Signal Optimization to UPC 100489 Traffic Signal Reconstruction. UPC 106524 has been completed with a surplus and we would like to transfer these funds back to the parent project UPC 100489.

My contact information is 703-255-6389 or email at [mgallagher@viennava.gov](mailto:mgallagher@viennava.gov).

Sincerely,

Michael Gallagher, PE  
Public Works Director

Enclosure: CMAQ RSTP Transfer Request form

cc: Jerome Derosa, TOV  
Marion Serfass, TOV  
Rhoderick Undan, VDOT  
Anne Fortune, VDOT  
Nassre Obeed, VDOT

Attach Signed Request of Transfer Letter



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF TRANSPORTATION

4975 Alliance Drive  
Fairfax, VA 22030

CHARLES A. KILPATRICK, P.E.  
COMMISSIONER

May 5, 2017


Ms. Noelle Dominquez, Chairman  
Regional Jurisdiction and Agency Coordinating Committee  
Northern Virginia Transportation Authority  
3040 Williams Drive, Suite 200  
Fairfax, VA 22031

RE: Reallocation of Congestion Mitigation Air Quality (CMAQ) Funds

Dear Ms. Dominguez:

As part of the on-going financial reconciliation of projects, we have identified surplus CMAQ funds programmed through COG prior to the existence of NVTa on a project for "Construction of Northern Virginia Districtwide Traffic Signals". We have verified that the funds remain as VDOT allocations and there is federal CMAQ apportionment available to support obligation if the funds are transferred. NOVA District recommends that the \$1,542,781 in CMAQ funds be transferred to the on-going Districtwide Signal Optimization project as the two projects have similar intentions.

Sincerely,

  
Helen L. Cuervo, PE  
District Administrator

Cc: Maria Sinner, VDOT  
Monica Backmon, NVTa  
Michael Longhi, NVTa





# County of Fairfax, Virginia

To protect and enrich the quality of life for the people, neighborhoods and diverse communities of Fairfax County

May 25, 2017

Ms. Noelle Dominguez, Chairman  
Regional Jurisdiction and Agency Coordinating Committee  
Northern Virginia Transportation Authority  
3040 Williams Drive, Suite 200  
Fairfax, Virginia 22031

Re: Reallocation of Congestion Mitigation Air Quality (CMAQ) funds

Dear Ms. Dominguez: *Noelle*

Fairfax County requests the approval of the Regional Jurisdiction and Agency Coordinating Committee (RJACC) and the Northern Virginia Transportation Authority to transfer the following CMAQ funds:


\$600,000 in FY 2016 CMAQ funds from the Reston Metrorail Access Group (RMAG) project (UPC 100470) to the following two projects:

- Route 7 – Route 123 North Sidewalk project (UPC 103280) in the amount of \$150,000
- Route 7 – Route 123 South Sidewalk project (UPC 103281) in the amount of \$450,000

This transfer is needed due to recent bids that are in excess of construction cost estimates.

If you have any questions or concerns about this request please contact Brent Riddle at (703) 877-5659.

Sincerely,

  
for Tom Biesiadny  
Director

cc. Todd Minnix, Fairfax County Department of Transportation (FCDOT)  
Todd Wigglesworth, FCDOT  
Brent Riddle, FCDOT  
Heather Zhan, FCDOT  
Carole Bondurant, Virginia Department of Transportation (VDOT)  
Bethany Mathis, VDOT

Fairfax County Department of Transportation  
4050 Legato Road, Suite 400  
Fairfax, VA 22033-2895  
Phone: (703) 877-5600 TTY: 711  
Fax: (703) 877-5723  
[www.fairfaxcounty.gov/fcdot](http://www.fairfaxcounty.gov/fcdot)



**CMAQ/RSTP Transfer Request Form**  
(One Sheet Needed Per Donor Project)

Date: 5/25/2017

Name of Jurisdiction/Agency Requesting: Fairfax County

Current Balance of CMAQ/RSTP Funds Currently Allocated to Donor Project (Prior to this Transfer): \$10,877,000

From (Donor):

To (Recipient):

UPC	Project Description	Type of Funds	Transfer from Previous Fiscal Years	If No, Year Requested	Transfer Amount	UPC	Project Description	Previously Approved by NVTA	If Yes, Year Approved	JACC Approval (NVTA)	Authority Approval (NVTA)	Funds Verified (VDOT)	Completed (VDOT)
100470	Reston Metrorail Access Group (RMAG)	CMAQ	Y		\$450,000.00	103281	Route 7-Route 123 South Sidewalk	Y	FY15				
		CMAQ	Y		\$150,000.00	103280	Route 7-Route 123 North Sidewalk	Y	FY15				

TOTAL OF TRANSFER \$600,000.00

Attach Signed Request of Transfer Letter



# NVTA FY2014-17 Program Project Status

XX.C

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Arlington County	<b>Boundary Channel Drive Interchange</b> – Constructs two roundabouts at the terminus of the ramps from I-395 to Boundary Channel Drive, which eliminate redundant traffic ramps to/from I-395. In addition, the project will create multi-modal connections to/from the District of Columbia that will promote alternate modes of commuting into and out of the District.	\$4,335,000 (FY2014)	Construction	Planning and design underway; construction of the interchange begins in Fiscal Year 2020; construction of the local road that connects to the interchange (Long Bridge Drive) began in early October 2016.	By end of Calendar year 2018 (Long Bridge Drive) and by end of Calendar year 2022 (interchange)	Mid-2019	11.8%
Arlington County	<b>Columbia Pike Multimodal Improvement</b> – Includes a modified street cross-section with reconfigured travel and transit lanes, medians and left-turn lanes, utility undergrounding and other upgrades along Arlington's 3.5 mile Columbia Pike corridor from the Fairfax County line on the west end to Four Mile Run.	\$12,000,000 (FY2014)	Construction	Design notice to proceed was provided in October 2014. Streetscape and Undergrounding plan approval expected in March 2017. Washington Gas relocations began April 12, 2017. Invitation to Bid scheduled for release July 2017, with construction expected to be under way in Nov 2017.	Fall 2019	Fall 2019	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Arlington County	<b>Columbia Pike Multimodal Street Improvements (East End)</b> – Includes a modified street cross-section along the eastern portion of Arlington's 3.5 mile Columbia Pike corridor. Specific works includes realignment of road including shifting the roadway south of its existing location, eliminating the s-curves, utility undergrounding and enhancing pedestrian facilities	\$10,000,000 (FY2015-16)	Engineering Construction	Segment A (East End) has been split into two sections. First section is Orme to Oak (West) and the second is Oak to Joyce Street (East). Segment A West completed the 90% plan review in April 2017. Right-of-Way acquisition underway, but must be completed prior to final plan approval and construction. Segment A East is subject to negotiations with Arlington National Cemetery.	Western Half – Spring 2020; Eastern Half – projected Summer 2020	Western Half – Spring 2020; Eastern Half – projected Summer 2020	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Arlington County	<b>Crystal City Multimodal Center</b> – Provides four additional saw-tooth bus bays for commuter and local bus services, seating, dynamic information signage, lighting, additional bicycle parking, curbside management plan for parking, kiss and ride, and shuttles, and pedestrian safety improvements along 18th Street South between South Bell Street and South Eads Streets.	\$1,500,000 (FY2014)	Construction	Construction started July 6, 2015. The NVTA funded phase of this project is significantly completed as of June 2016. Final paving and striping was mostly completed in December 2016 at the same time as an adjacent County project. Only punch-list items remain on this project, plus green bike lane painting. A ribbon cutting ceremony was held on May 18, 2017. There are only a few remaining punch-list items on this project. Remaining funds will be used to implement the real-time information signage installation. The planning process for this task has just begun. An updated schedule on this phase will be provided in the July update.	Spring 2017	Spring 2017.	75.5%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Arlington County	<b>Ballston-MU Metrorail Station West Entrance</b> – Constructs a second entrance to the Ballston-MU Metrorail Station, at North Fairfax Drive and North Vermont Street. Includes two street-level elevators & escalators, connecting to an underground passageway & new mezzanine. It will have fare gates, fare vending machines and an attended kiosk. Provides direct access, relieves congestion at the current entrance and provides for more even distribution along the platform	\$12,000,000 (FY2015-16)	Design	Design work to run for two years from Fall 2017.	Start of construction in winter 2019	Fall 2019	0%
Arlington County	<b>Glebe Road Corridor Intelligent Transportation System Improvements</b> – Design and construction of Intelligent Transportation System (ITS) and Adaptive Traffic Control System, including hardware and software for real time traffic data collection, Forward Looking Infra Red (FLIR) traffic detection, 3D pedestrian and bike detection, interactive audible ADA accessible pedestrian crossings, CCTVs, backup power supply information systems, queue detections, and dynamic message signs.	\$2,000,000 (FY2015-16)	Engineering Construction	Task 1 – On Site Support - Engineer has been procured for this project. Task 2 – Chain Bridge ITS upgrades – Consultant procurement is underway Task 3 – Chain Bridge Fiber communication – In construction phase. Task 4 – ITS Equipment Installations – Field assessment underway. Task 5 – TSP equipment installation – Waiting on contract to procure TSP equipment.	Task 2 – Summer 2019 Task 3 - August 2017 Task 4 – Dec. 2017 Task 5 – Summer 2018	Task 2 – Summer 2019 Task 3 - August 2017 Task 4 – Dec. 2017 Task 5 – Summer 2018	3.3%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Arlington County	<p><b>Lee highway Corridor ITS Enhancements –</b> The project proposes to address congestion, safety, and transit issues by installing an Intelligent Transportation System (ITS) and corresponding Adaptive Traffic Control System program, to better manage traffic flow for both automobiles and buses. The project will install additional Bluetooth devices, count stations, CCTV cameras, and Forward Looking Infrared (FLIR) detectors in order to monitor traffic flow and safety of all modes. At the interchange of Lee Highway and I-66, the project will upgrade two signals, providing a better-timed connection between I-66 and Lee Highway. The project will also upgrade existing mast arm signals and add or improve existing streetlights along Lee Highway.</p>	\$3,000,000 (FY2017)	Design, PE, ROW, Construction	Preliminary field assessment has been completed. Survey requests have been submitted and survey work will start in a few weeks.	June 2020	June 2020	0%



Arlington County	<p><b>Crystal City Streets:</b> 12<sup>th</sup> Street Transitway, Clark/Bell Realignment &amp; Intersection Improvements – The goal is to streamline the existing road network, make movements for all modes of transportation more efficient, create new connections to the street grid network, and to construct an extension of the Crystal City-Potomac Yard (CCPY) Transitway. It includes reconfiguring the street between South Eads Street and South Clark Street to provide exclusive transit lanes, reconfigure and realign a segment of Clark Street with Bell Street, and the intersection improvements around 23<sup>rd</sup> Street South and US-1 will simplify the design of three closely-spaced intersections that are confusing and inefficient for all modes.</p>	\$11,600,000 (FY2017)	Design, PE, ROW, Construction	<p>Design work began in fall 2016. 12<sup>th</sup> Street plans are at 30%. A public meeting was held on April 5, 2017. The County has decided to combine this phase of the project with the larger CCPY extension project to Pentagon City Metro. County engineers will bring that phase to 30% and then complete overall design concurrently.</p> <p>23<sup>rd</sup> street has been split into 3 phases. The segment between US1 and Eads will be completed in Phase 1 using County design team as well as County road crews for construction. This should be completed before the end of CY2017. Phase 2 will include the reconfiguration of US1 interchange and adjacent pedestrian facilities, to be designed immediately. Phase 3 addresses the section of 23<sup>rd</sup> Street from Eads to Crystal Drive. This will be completed in conjunction with adjacent private-sector redevelopment projects in the future.</p> <p>Clark/Bell Realignment has completed 30% design. Comment resolution is currently scheduled and the design is progressing into the 60% level.</p>	June 2020	June 2020	0%
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Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Fairfax County	<b>Innovation Metrorail Station</b> – Construction of the Silver Line Phase II extension of the rail system from Washington DC, to and beyond the Dulles International Airport. This multimodal facility will include bus bays, bicycle parking, kiss-and-ride and taxi waiting areas, as well as pedestrian bridges and station entrances from both the north and south sides of the Dulles Airport Access Highway/Dulles Toll Road.	\$41,000,000 (FY2014)	Design Construction	Pedestrian bridge assembly, precast, and masonry work is currently underway for station entrances. The County has awarded the contract for construction and work is expected on the kiss and ride, bike facilities and taxi waiting areas. The bus bays have been completed.	Spring 2019	Spring 2019	89%
	<b>Innovation Metrorail Station (Continuation)</b> - Construction of the Silver Line Phase II extension of the rail system from Washington DC, to and beyond the Dulles International Airport. This multimodal facility will include bus bays, bicycle parking, kiss-and-ride and taxi waiting areas, as well as pedestrian bridges and station entrances from both the north and south sides of the Dulles Airport Access Highway/Dulles Toll Road.	\$28,000,000 (FY2015-16)	Construction	Pedestrian bridge assembly, precast, and masonry work is currently underway for station entrances. The County is in the process of awarding a contract for the construction of the kiss and ride, bus bays, bike facilities and taxi waiting areas.	Spring 2019	Spring 2019	0%
Fairfax County	<b>West Ox Bus Garage</b> - Expands capacity of the West Ox bus facility and allows for additional, increased Fairfax Connector bus service. Includes 9 maintenance bays and expansion of facilities for bus drivers and security.	\$20,000,000 (FY2015-16)	Construction	The Maintenance Building is dried-in and finish work is ongoing. The bus lift installation and DIT wiring are ongoing. Work at the Administration Building expansion is ongoing.	September 2017	September 2017	24.2%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Fairfax County	<b>VA Route 28 Widening – Prince William County Line to Route 29</b> - Widen from 4 to 6 lanes including intersection improvements and pedestrian/bicycle facilities.	\$5,000,000 (FY2015-16)	PE and Environmental Study	Design: Project PIM anticipated in fall 2017. Survey: Received Preliminary Environmental Inventory (PEI) on 5/1/16. Solicited proposal for the Cultural Resources section of NEPA documentation. NTP issued on 10/20/16. VDHR approvals received on permit applications. In process to acquire VDOT LUP. Archeological survey ongoing. Traffic: NTP issued mid-March 2016, counts completed in May 2016, draft traffic report review completed. Consultants are now modeling an 8-lane section. Results expected in summer 2017. Utility Designation: NTP given to consultant in March 2016. Utility designation survey completed in May 2016. Geotech: Meeting held with VDOT on 10/26/16 to review Phase I Work Plan. NTP for Phase II Geotechnical work issued on 12/21/16. LUP for Geotechnical survey work received from VDOT; survey ongoing.	2020	February 2018	31.1%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
	<b>VA Route 28 Widening – Prince William County Line to Route 29 (continuation)</b> - Widen from 4 to 6 lanes including intersection improvements and pedestrian/bicycle facilities.	\$5,000,000 (FY2017)	PE, ROW	Continuation of the 2015-16 project.	2020	June 2018	0%
Fairfax County	<b>Fairfax County Parkway Improvements</b> – A Study of short and long-term corridor improvements, Environmental Assessment (EA)/ Finding of No Significant Impact (FONSI), and/or Preliminary Engineering for five segments of the Parkway.	\$10,000,000 (FY2015-16)	Design, Environmental, PE	VDOT advertised the final RFP for a design consultant on 7/18/2016 and completed technical interviews in September. Traffic counts completed in Nov 2016. Survey completed in Spring 2017. VDOT awarded the contract on 5/1/2017 and started working on traffic analysis and alternatives development.	2022	Spring 2019	0%
Fairfax County	<b>Route 286 Fairfax County Parkway Widening: Route 123 to Route 29</b> – Widen Route 286 from four lanes (undivided) to six lanes (divided). It also includes bike-ped amenities such as paved trail. Intersection improvement and access management will be considered in design.	\$10,000,000 (FY2017)	ROW	VDOT advertised the final RFP for design consultant on 7/18/2016 and completed technical interviews in September. Traffic counts completed in Nov 2016. Survey completed in Spring 2017. VDOT awarded the contract on 5/1/2017 and started working on traffic analysis and alternatives development.	2022	Spring 2021	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Fairfax County	<b>Rolling Road Widening</b> – Widen Rolling Road from 2 to 4 lanes from Old Keene Mill Road (VA 644) to Franconia Springfield Pkwy (VA 289) and Fairfax County Parkway (VA 286). Project will add pedestrian and bicycle facilities.	\$5,000,000 (FY2015-16)	Design, PE, ROW	Design is 30% completed. Staff met with elected officials to discuss the typical section. Public Information Meeting (PIM) was held on June 22, 2016. Meetings with individual HOAs completed. Project Public Hearing anticipated in fall 2017.	2018	Summer 2017	62.5%
Fairfax County	<b>Frontier Drive Extension</b> - Extend Frontier Drive from Franconia-Springfield Parkway to Loisdale Road, including access to Franconia-Springfield Metrorail Station and interchange improvements (braided ramps) to and from the Parkway. Provide on-street parking along Frontier Drive where feasible, as well as add pedestrian and bicycle facilities.	\$2,000,000 (FY2015-16)	Design, PE	VDOT is administering this project. Design and Preliminary Engineering related efforts are underway. Preliminary Field inspection meeting was held on February 8, 2017. Final draft IMR has been submitted and was sent to VDOT Central Office for final approval on May 4, 2017.  Public Hearing is anticipated to be held in fall 2017 with design approval anticipated in spring 2018.	2022-2023	Fall 2018	0%
Fairfax County	<b>Route 7 Widening: Colvin Forest Drive to Jarrett Valley Drive</b> – Widen Route 7 from four to six lanes, improve intersections, and add 10-ft shared use path on both sides with connections to local trails.	\$10,000,000 (FY2017)	ROW	30% plans completed. Public information meeting held on 6/16/16. Public hearing held on 11/15/16. Board endorsement of Design. Public Hearing Plans 6/6/2017.	2025	June 2020	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Fairfax County/ Virginia Department of Transportation UPC 82135	<b>Route 7 Bridge over Dulles Toll Road</b> - Widen Route 7 from 4 lanes to 6 lanes, from approximately 0.1 mile west of Tyco Road to approximately 0.6 mile west of Tyco Road. The project will add one extra lane and 14 foot wide shared-use path on each direction.	\$13,900,000 (FY2015-16)	Construction	ROW Acquisitions and Utility relocations are ongoing. Existing piers are being widened to replace the full superstructure. Construction of three underpasses and two overpasses along shared-use paths is underway. Final design for the roadway is complete. Lighting plans along the roadway under review by MWAA, Fairfax County and VDOT. Westbound roadway traffic switched on new bridge in between two existing RT 7 bridges over DATR on December 22, 2016. Old eastbound bridge removed. Drainage and cut/fill in NW quadrant installed. Pier modifications and substructure repairs on RT 7 piers underway. Held DVP Pre-Construction Meeting on 4/19/17. Completed bridge Phase 2 Steel Erection.	Spring 2018	Spring 2017	83.3%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Loudoun County	<b>Leesburg Park and Ride</b> – Funding of land acquisition for a second Leesburg Park and Ride facility to accommodate a minimum of 300 spaces.	\$1,000,000 (FY2014)	ROW Acquisition	On September 22, 2016, the Board of Supervisors authorized staff to finalize negotiations with Springfield East L.C. for a written contract in the amount of \$5,475,000 for development, construction and purchase of a turnkey Commuter Parking Lot on the property designated as Lot 1, Section 1 Village at Leesburg.	Acquisition of land anticipated by Summer 2018.	Summer 2018	0%



Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Loudoun County	<b>Belmont Ridge Road (North)</b> – Widening of Belmont Ridge between Gloucester Parkway and Hay Road Segment, including a grade separation structure to carry the W&OD trail over Belmont Ridge Road.	\$20,000,000 (FY2014)	ROW Acquisition Construction	This is a design build project being administered by VDOT. Contract was awarded to Dewberry Shirley and notice to proceed was issued in October 2015. A ground breaking ceremony was held on September 27, 2016 for this project. VDOT held a “Pardon Our Dust” meeting on October 27, 2016 to inform the public about the construction schedule. Right-of-Way (ROW) acquisition, clearing and grubbing, erosion and sediment control measures installation, and earthwork activities are underway. Installation of signage and temporary concrete barrier commenced. Project construction continues; work has begun on the steel girder placement for the bridge over the W&OD trail (northbound).	December 2018	December 2018 (Full payment made to VDOT)	100%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Loudoun County	<b>Belmont Ridge Road - Truro Parish Road to Croson Ln</b> – The road will be widened from a substandard two-lane rural section to a four-lane arterial standard with the appropriate auxiliary turn lanes and signalization.	\$19,500,000 (FY2015-16)	Construction	100% design plans were submitted to Building & Development and VDOT on November 30, 2016. Coordination of utility relocation designs with Dominion Virginia Power, Verizon, and adjacent property owners continues. DTCI and its consultant, Dewberry, are also working to finalize the dedication and easement plats. Completion of the design phase is delayed from Fall 2016 to Spring 2017 due to Dominion Virginia Power and Verizon relocation coordination. Appraisals have been ordered; ROW acquisition will begin when appraisals are received.	February 2018	February 2018	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Loudoun County	<b>Loudoun County Parkway (VA Route 607) – U.S. 50 to Creighton Rd</b> – Provides for the design, right-of-way acquisition and construction of Loudoun County Parkway from Creighton Road to U.S. Route 50. The project will be designed as a four-lane urban major collector with a divided median in a six-lane ultimate right-of-way, associated turn lanes and shared use path.	\$31,000,000 (FY2015-16)	Construction	A portion of the project is administered by VDOT as a Design Build contract. Dewberry prepared the final design; Shirley Contracting has begun construction at the intersection of Loudoun County Parkway and Route 606. One lane of Route 606/Loudoun County Pkwy intersection scheduled to open in September 2017, two lanes to open by December 2017; two lanes of Route 606 between the Greenway and Commerce Center Court will open in December 2017; the remainder of the road improvements completed August 2018. VDOT has prepared a Standard Project Administration Agreement to capture the Loudoun County Parkway related charges that are being constructed as part of the Route 606 widening project; this agreement was approved by the Board of Supervisors on February 23, 2017. Southbound and northbound Route 606 traffic is being shifted to the new southbound bridge over the Horsepen Dam spillway followed by construction of the north bound bridge.	Mid 2021	Mid 2021	0.4%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Prince William County	<b>Route 1 Widening from Featherstone Road to Marys Way</b> – Widen Route 1 from a 4 lane undivided highway to a 6 lane divided highway. The total distance for the project will be 1.3 miles and will include the construction of a 10 foot wide multi-use trail on the west side and a five foot wide sidewalk on the east side, along the entire route.	\$3,000,000 (FY2014)	Design	Right of Way plan approval and authorization received from VDOT for total takes on May 2, 2017. Right of Way plans for partial acquisitions under VDOT review. Approval anticipated in summer 2017.	Construction advertisement December 2017.	Design October 2017.	52.2%
	<b>Route 1 Widening from Featherstone Road to Marys Way (continuation)</b> - Widening of Route 1 from a 4 lane undivided highway to a 6 lane divided highway. The total distance for the project will be 1.3 miles and will include the construction of a 10 foot wide multi-use trail on the west side and a five foot wide sidewalk on the east side, along the entire route.	\$49,400,000 (FY2015-16)	Design ROW Acquisition Construction	Construction to begin in January 2018. There are approximately 70 parcels impacted with 11 properties with possible major impacts. 9 total acquisition offers distributed and 2 total acquisition offers pending. Appraisals for partial takes ongoing. Design public hearing held in November 2016. Duct bank construction and utility relocations to occur in 2018.	April 2021	April 2021	0%
	<b>Route 1 Widening from Featherstone Road to Marys Way (continuation)</b> - Widening of Route 1 from a 4 lane undivided highway to a 6 lane divided highway. The total distance for the project will be 1.3 miles and will include the construction of a 10 foot wide multi-use trail on the west side and a five foot wide sidewalk on the east side, along the entire route.	\$11,000,000 (FY2017)	Construction	Continuation of the FY2014 and FY2015-16 projects above.	April 2021	April 2021	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Prince William County	<b>Route 28 Widening from Linton Hall Road to Fitzwater Drive --</b> Widen from a 2 lane undivided roadway to a 4 lane divided highway. Project includes the construction of a multi-use trail on the south side and a sidewalk on the north side.	\$28,000,000 (FY2014)	Engineering ROW Acquisition Construction	ROW acquisition and utility relocations are complete. Project rebid as a standalone project. Bids opened on May 9, 2017, and are under evaluation.	October 2019	October 2019	0%
Prince William County	<b>Route 28 Widening from Route 234 Bypass to Linton Hall Road</b> - Widen approximately 1.5 miles of Route 28 from a 4 lane undivided highway to a 6 lane divided highway, which will include a multi-use trail and sidewalk.	\$16,700,000 (FY2015-16)	Design ROW Acquisition Construction	Project will be bid as an unsolicited PPTA (Public-Private Transportation Act) proposal. Proposals are due June 30, 2017.	TBD	TBD	0%
	<b>Route 28 Widening from Route 234 Bypass to Linton Hall Road (continuation)</b> - Widen approximately 1.5 miles of Route 28 from a 4 lane undivided highway to a 6 lane divided highway, which will include a multi-use trail and sidewalk.	\$10,000,000 (FY2017)	Construction	Continuation of the FY2015-16 project above.	TBD	TBD	0%
City of Manassas/Prince William County	<b>Route 28 (Manassas Bypass) Study – Godwin Drive Extended</b> - This study will evaluate the scope, cost, environmental, traffic forecasts, alternative alignments and feasibility factors required to gain approval for Route 28 corridor congestion improvements between the City of Manassas and Fairfax County.	\$2,500,000 (FY2015-16)	Engineering Study	Consultant (JMT) has been procured. Steering Committee approved four alternatives for detailed analysis. Consultant is conducting the travel demand model, and running the preferred alternatives against criteria determined by the technical committee.	Location study (phase 1 of the overall study) to be completed by September 2017	Location study (phase 1 of the overall study) to be completed by September 2017	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
City of Alexandria	<b>Potomac Yard Metrorail Station EIS</b> – This project supports ongoing design and environmental activities associated with the development of a new Blue/Yellow Line Metrorail station at Potomac Yard, located between the existing Ronald Reagan Washington National Airport Station and Braddock Road Station.	\$2,000,000 (FY2014)	Design Environmental	The Records of Decision (RODs) were issued on October 31 and Nov 1, 2016. The design-build RFP was issued on November 28, 2016. Contract award forecasted fall 2017.	Expected to open by year-end 2020.	2017	44.8%
	<b>Potomac Yard Metrorail Station (continuation)</b> - Planning, design, and construction of a new Metrorail station and ancillary facilities at Potomac Yard along the existing Metrorail Blue and Yellow lines between the Ronald Reagan Washington National Airport Station and the Braddock Road Station.	\$1,500,000 (FY2015-16)	Planning, PE, Design	Conceptual design of the station began in fall 2015. The design-build RFP was issued on November 28, 2016. Contract award forecasted fall 2017.	2020	2017	0%
	<b>Potomac Yard Metrorail Station (continuation)</b> - Planning, design, and construction of a new Metrorail station and ancillary facilities at Potomac Yard along the existing Metrorail Blue and Yellow lines between the Ronald Reagan Washington National Airport Station and the Braddock Road Station.	\$66,000,000 (FY2017)	Design, PE, Construction (Design-Build)	Records of Decision were issued on Oct 31 and Nov 1, 2016. The design-build RFP was issued on November 28, 2016. Contract award forecasted fall 2017.	2020	2020	0%
City of Alexandria	<b>Shelters and Real Time Transit Information for DASH/WMATA</b> – Constructs bus shelters and provides associated amenities such as real time information at high ridership stops.	\$450,000 (FY2014)	Asset Acquisition	Since January 2017, 5 shelters have been constructed and opened to the public. New shelter is currently being constructed at site six. New shelters at sites seven and eight are expected to be constructed in June 2017.	September 2018	December 2017	3.1%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
City of Alexandria	<b>Traffic Signal Upgrades/Transit Signal Priority</b> – Includes design of transit priority systems on Route 1 and Duke Street, and purchase of equipment and software to install transit signal priority and upgrade traffic signals on Route 1.	\$660,000 (FY2014)	Design Asset Acquisition	Kittelson & Associates is preparing design plans and specifications for Route 1 and Duke Street TSP projects. Construction will begin after design is complete.	Summer 2018	Summer 2018	2.5%
City of Alexandria	<b>Duke Street Transit Signal Priority</b> - Includes design, install and implementation of a transit vehicle signal priority system (on board system on DASH and field equipment along the route) on Duke Street.	\$190,000 (FY2015-16)	Construction	Kittelson & Associates is preparing design plans and specifications for Route 1 and Duke Street TSP projects. Construction will begin after design is complete.	Summer 2018	Summer 2018	8%
City of Alexandria	<b>West End Transitway (WET)</b> - Will provide frequent, reliable transit service connecting major activities. The WET will connect to two metro stations (Van Dorn, Pentagon), major employment centers (Pentagon, Mark Center), and major transit nodes (Landmark Mall, Southern Towers, and Shirlington Transit Center).	\$2,400,000 (FY2015-16)	Design, Construction	The project has completed NEPA. The contract for the Bridging Documents has been awarded and the project kick-off meeting is scheduled for June 6, 2017.	2021	2019	0%
City of Fairfax	<b>Chain Bridge Road Widening/Improvements from Route 29/50 to Eaton Place</b> – Widen Route 123 (Chain Bridge Road) to six lanes, improves the lane alignments of the roadway approaches for the intersection of Route 29/50 (Fairfax Boulevard) at Route 123 and improves pedestrian accommodations at all legs of the intersection. Includes extensive culvert improvements to eliminate roadway flooding caused by the inadequate culvert under Route 123.	\$5,000,000 (FY2014)	ROW Acquisition, Construction	NTP for construction was issued on September 19, 2016.	2018	2018	47.5%



Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
	<b>Chain Bridge Road Widening/Improvements from Route 29/50 to Eaton Place “Northfax”</b> – Widens Route 123 (Chain Bridge Road) to 6 lanes, improves the lane alignments of the roadway approaches for the intersection of Route 29/50 (Fairfax Boulevard) at Route 123 and improves pedestrian accommodations at all legs of the intersection. Includes extensive culvert improvements to eliminate roadway flooding caused by the inadequate culvert under Route 123.	\$10,000,000 (FY2015-16)	Construction	NTP for construction was issued on September 19, 2016.	2018	2018	0%
City of Fairfax	<b>Kamp Washington Intersection Improvements</b> – Eliminates the existing substandard lane shift between Route 50 and Route 236 through the intersection; signalization phasing improvements; construction of an additional southbound lane on U.S 29 from the Kamp Washington (50/29/236) intersection to the existing third southbound lane; extension of the westbound through lanes on VA 236 (Main Street) from Chestnut Street to Hallman Street; lengthening of turn lanes to provide additional storage for turning vehicles from Route 50 to Route 50/29 and Route 236 to Route 29; new crosswalks, curb ramps, sidewalks and pedestrian signalization; and replacement of span-wire signals with mast arm signals.	\$1,000,000 (FY2015-16)	Construction	Construction began in December 2015. Project is under construction.	April 2017	April 2017	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
City of Falls Church	<b>Pedestrian Access to Transit</b> – Includes the provision of enhanced pedestrian connections to the Intermodal Plaza being designed for the intersection of South Washington Street and Hillwood Avenue. The Intermodal Plaza will serve as a focal point for bus transportation in the area when completed.	\$700,000 (FY2014)	Engineering Environmental Construction	100% design completed. Currently in ROW phase. Utility undergrounding is out to bid; award anticipated by June 30, 2017; completion anticipated by early 2018. Continuing coordination with Washington Gas and Dominion to resolve conflicts and coordinate separate projects in the area.	Fall 2018	Fall 2018	18.5%
City of Manassas	<b>Route 28 Widening South to City Limits</b> – Includes widening Route 28 from 4 lanes to 6 lanes from Godwin Drive in Manassas City to the southern city/Prince William County limits. This project also adds a dual left turn lane on north bound Route 28 to serve Godwin Drive. The project eliminates a merge/weave problem that occurs as travelers exit the 234 bypass and attempt to cross 2 lanes to access Godwin Drive. Signalization improvements are included.	\$3,294,000 (FY2015-16)	Engineering ROW Acquisition Construction	PE phase is ongoing. PE plans at 80%. Obtained CTB approval for "Limited Access Control Change." Right-of-Way Plans submitted to VDOT for review to obtain ROW Authorization.	October 2019	October 2019	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Town of Dumfries UPC 90339	<b>Widen Route 1 (Fraleay Boulevard) Brady's Hill Road to Route 234 (Dumfries Road) -</b> This project will complete the Northern segment of a Prince William County funded project (VDOT's Route 1 / Route 619) and will allow local traffic to travel to and from Quantico / Stafford to the Route 234 interchange and communities along the Route 1 corridor. This project will bring northbound and southbound Route 1 onto the same alignment by widening Route 1 NB from 2 lanes to 6 lanes, with a wide curb lane for on-road bicycle use and a sidewalk and multi-use trail for pedestrians and other modes. It includes replacing the bridge over Quantico Creek.	\$6,900,000 (FY2015-16)	Engineering	The full six lane design concept will be developed to a PFI level by summer 2017 and then VDOT and Town of Dumfries will decide on whether public outreach should be pursued based on the prospect of right of way acquisition funding becoming available and the likely timeline for that.	FY2025	Mid-2019	4.4%
Town of Herndon	<b>Intersection Improvements (Herndon Parkway/Sterling Road) –</b> Street capacity improvements for congestion relief. Project includes ROW acquisition and construction to build a sidewalk on the north side of Sterling Road between Herndon Parkway and the town limits.	\$500,000 (FY2014)	Final Engineering ROW Acquisition Construction	Right of way acquisition for new sidewalk connectivity and improvements has been completed. Sidewalk improvements are now out for bid. Town Council is expected to award contract in July/August 2017.. Utility relocation to occur during spring/summer 2017.	Highway capacity improvements completed November 2014. Sidewalk improvements expected in mid-2017.	Fall 2017	40.1%
Town of Herndon	<b>Intersection Improvements (Herndon Parkway/Van Buren Street) –</b> Street capacity improvements for congestion relief. Project includes sidewalk/trail connectivity to Herndon Metrorail.	\$500,000 (FY2014)	Construction	Procurement approved and awarded in February 2015. Project is in design.	Expected in 2018, prior to the opening of Dulles Metrorail Phase III.	2018	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Town of Herndon	<b>Access Improvements (Silver Line Phase II – Herndon Metrorail Station)</b> – Provides additional vehicle and bus pull-off bays and major intersection improvements to include ADA accessible streetscape, paver crosswalks, bike-pedestrian signalization, refuge media islands and bus shelter/transit facilities.	\$1,100,000 (FY2014)	Engineering ROW Acquisition Construction	Procurement approved and awarded in March 2015. Engineering underway at 30%. Design ROW acquisition/street dedication is to begin in early 2017 to be ready for construction in 2019.	Expected in 2018, prior to the opening of Dulles Metrorail Phase III.	2018	0%
Town of Herndon	<b>East Elden Street Improvement &amp; Widening</b> - Widen and reconstruct East Elden Street from 4 to 6 lanes with a raised landscaped median between Fairfax County Parkway and Herndon Parkway; continue as a 4-lane section with a raised landscaped median and dedicated turning lanes between Herndon Parkway and Van Buren Street; transition to a 2-lane section with left-turn lanes between Van Buren and Monroe Street. The project will be ADA accessible to include pedestrian/audio signalization, crosswalk enhancements and bus stop improvements at select major intersections as well as proposed bike lanes along the length of the project.	\$10,400,000 (FY2015-16)	ROW, Utilities	VDOT's Location and Design Public Hearing was held on October 27, 2016. On February 14, 2017, Herndon's Town Council held a public meeting and adopted a resolution that listed public comments to be incorporated into VDOT's engineering design plans. On May 9, 2017, Town Council adopted a resolution recommending to VDOT a preferred traffic management option for the construction of the Sugarland Run bridge upgrade.	Project advertisement 2021	December 2018	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Town of Leesburg UPC 89890	<b>Edwards Ferry Road and Route 15 Leesburg Bypass Grade Separated Interchange (Continuation)</b> - The project consists of development of a new grade-separated interchange on Edwards Ferry Road at the Route 15 Leesburg Bypass. The existing signalized at-grade intersection at this location is heavily congested.	\$1,000,000 (FY2015-16)	Design	Interchange Justification Report Traffic Framework document was approved on 7/14/16. Public Involvement Meeting was held on March 2 where three alternative proposals were presented. Preliminary Field Inspection plans being developed based upon endorsement of preferred alternative by the Town on May 9, 2017.	Design approval expected in spring 2018.	Design approval expected in spring 2018.	75%
Town of Leesburg UPC 106573	<b>Route 7 East Market Street and Battlefield Parkway Interchange</b> - Improve safety and pedestrian/vehicle flow by building a grade-separated interchange which will allow Route 7 to become a limited-access freeway through the Town of Leesburg	\$13,000,000 (FY2015-16)	Design	Traffic analysis including development of the existing conditions VISSIM model, additional travel time runs and queuing observations, and responding to IJR framework document comments are underway. The IJR framework document has been approved. Traffic volumes have been forecasted for the design year, 2040, and have been approved. Continuing to develop alternative interchange configurations. A public information meeting was held on May 16, 2017.	2020	2018	26.9%
	<b>Route 7 East Market Street and Battlefield Parkway Interchange (continuation)</b> - Improve safety and pedestrian/vehicle flow by building a grade-separated interchange which will allow Route 7 to become a limited-access freeway through the Town of Leesburg.	\$20,000,000 (FY2017)	Construction	Continuation of the FY2015-16 project above.	2020	2020	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Northern Virginia Transportation Commission	<b>Transit Alternatives Analysis (Route 7 Corridor Fairfax County/Falls Church/Arlington County/Alexandria)</b> – Corridor study to study transit options on Route 7.	\$838,000 (FY2014)	Planning for Phase 2 of Study	Commission approved the recommendations at the July 7, 2016 meeting. Final report submitted.	Final report submitted in February 2017. Final payment being processed.	Completed	100%
Potomac and Rappahannock Transportation Commission	<b>Western Maintenance Facility</b> – New facility will alleviate overcrowding at PRTC's Transit Center (which was designed to accommodate 100 buses, but is currently home to over 166 buses) and to permit service expansion as envisioned and adopted in PRTC's long range plan.	\$16,500,000 (FY2015-16)	Construction Testing Inspection Oversight	Building Permit was approved by Prince William County on 2/5/2016. Building Permit has been extended through December 2016. Start of construction expected in Summer 2017.	Spring 2019	Spring 2019	0%
Virginia Department of Transportation	<b>Route 28 Hot Spot Improvements (Loudoun Segment)/Area 1</b> – Loudoun segment of Route 28 improvements from Sterling Blvd. to the Dulles Toll Road.	\$12,400,000 (FY2014)	Construction Contract Admin.	ROW acquisition, storm water installation, bio- retention pond and swale, clearing, and grubbing are complete. Completed shoulder between RT 606 and Innovation Ave. Installed three high mast lights at Sterling Blvd. interchange. Completed surface asphalt from Waxpool Road to Dulles Toll Road; Installed guardrail and permanent pavement markings from Waxpool Road to Innovation Avenue. Installed ROW fence between Sterling Blvd. and Route 606. Completed Stormwater Management Pond 46.	Summer 2017	Summer 2017	98.3%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Virginia Department of Transportation	<b>Route 28 Widening Dulles Toll Road to Route 50/Area 2</b> – Widen Route 28 from 3 to 4 lanes Southbound from Dulles Toll Road to Route 50.	\$20,000,000 (FY2014)	Construction Contract Admin.	ROW acquisition and clearing within existing ROW are complete. Construction of double box culvert extension south of Dulles Toll Road is complete. Placed aggregate subbase and asphalt as well as graded shoulder stone in median between Dulles Toll Road and Frying Pan Road. Placed intermediate and surface asphalt in median between Dulles Toll Road and McLearen Road. Light poles are being installed. Roadway work going on. Completed three high mast light foundations; mass excavation on Southbound 28 between Air and Space Parkway and Route 50; shoulder foundation for Overhead Sign #2. Completed CTA, base asphalt and intermediate asphalt placement between Air and Space Parkway and Route 50.	Summer 2017	Summer 2017	85%
Virginia Department of Transportation	<b>Route 28 Widening McLearen Road to Dulles Toll Road/Area 3</b> – Widen Route 28 from 3 to 4 lanes Northbound from McLearen Road to Dulles Toll Road.	\$11,100,000 (FY2014)	Construction Contract Admin.	Completed placement of CTA, base asphalt, and shoulder stone at the McLearen Road on-ramp. Completed placement of new surface asphalt on existing lanes of Northbound 2. Completed on Bioretention Swale 34.	Summer 2017	Summer 2017	97.5%



Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Virginia Railway Express	<b>Alexandria Station Tunnel</b> – Includes a pedestrian tunnel connection between Alexandria Union Station/VRE Station and the King Street Metrorail Station, as well as the improvement of the VRE station east side platform to enable it to service trains on both sides.	\$1,300,000 (FY2014)	Construction	Project cost increase has required a search for new sources of funds for construction. Notified of successful Smart Scale grant application. Will know in June 2017 for use in construction. Will use NVTA funds to advance design to construction plans and begin construction. Considering CM/GC (CMAR) project delivery to get designer and construction contractor on board at same time. Schedule will be revised when notification of Smart Scale Award is official.	Fall 2020	June 2019	0%
Virginia Railway Express	<b>Gainesville to Haymarket Extension</b> – Corridor study and preliminary engineering development of an 11-mile VRE extension from Manassas to Gainesville-Haymarket.	\$1,500,000 (FY2014)	Planning Project Development Conceptual Design	Phase I, planning and alternatives analyses, complete. VRE Operations Board recommended advancing Phase II of study, NEPA/PE, for an expanded Broad Run terminus in support of VRE Manassas Line expansion. Phase II initiation is pending DRPT NTP for REF funds for study and amendment of VRE consultant contract, estimated for July 2017.	Winter 2017-18	Winter 2017-18	47.5%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Virginia Railway Express	<b>Lorton Station Second Platform</b> – Includes final design and construction of a 650 foot second platform at the VRE Lorton Station in Fairfax County to accommodate trains up to 8 cars in length.	\$7,900,000 (FY2014)	Final Design Construction	NTP for PE as part of Penta Platform Effort issued 8/4/2016 effective 8/5/2016. 24 month anticipated Preliminary Engineering and NEPA Schedule. 12 month Final Design Schedule. Some concurrency possible. Construction is anticipated in summer 2018. Conceptual design alternatives and environmental documentation is being finalized. Procurement efforts are currently underway for final design services.	Summer 2020	June 2019	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Virginia Railway Express	<b>Manassas Park Station Parking Expansion</b> - Planning and engineering investigations to expand parking and pedestrian connections at the VRE Manassas Park station	\$500,000 (FY2015-16)	Planning & Engineering Studies	Contract was awarded at June 2016 VRE Board Meeting. NTP has been issued. The City Council endorsed VRE's recommended site on November 15, 2016. The technical report for the Alternatives Analysis task will be finalized in May 2017. VRE Board awarded Optional Task A for PE and NEPA on January 27, 2017. Site survey was conducted in Mar/Apr 2017. PE and NEPA analysis has been initiated. City Council was provided a status update in May. Public outreach to review the design is proposed in late June.	Fall 2017	Summer 2017	26.9%
	<b>Manassas Park Station Parking Expansion (continuation)</b> - Planning and engineering investigations to expand parking and pedestrian connections at the VRE Manassas Park station.	\$2,000,000 (FY2017)	Design, PE, Environmental	Continuation of the FY2015-16 project above.	Construction completion in July 2020	Fall 2018	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Virginia Railway Express	<b>Franconia-Springfield Platform Expansion</b> - Design and construction to extend the existing north-side (Metro station side) platform by up to 700 feet to allow the north-side platform at the station to be usable by full length VRE trains. It also includes design and construction of modifications to the south-side platform at the station.	\$13,000,000 (FY2015-16)	Design Construction	NTP for PE as part of Penta Platform Effort issued 8/4/2016 effective 8/5/2016. 24 month anticipated Preliminary Engineering and NEPA Schedule. 12 month Final Design Schedule. Some concurrency possible. Construction is anticipated in summer 2018. Conceptual design alternatives and environmental documentation is being finalized. Procurement efforts are currently underway for final design services.	Summer 2020	Summer 2021	0%
Virginia Railway Express	<b>Rippon Station Expansion and Second Platform</b> - Includes NEPA, design and construction to modify the existing platform and add a second platform at the station to service trains up to 8 cars long. An elevator will also be constructed to get passengers to the new platform.	\$10,000,000 (FY2015-16)	NEPA Design Construction	NTP for PE as part of Penta Platform Effort issued 8/4/2016 effective 8/5/2016. 24 month anticipated Preliminary Engineering and NEPA Schedule. 12 month Final Design Schedule. Some concurrency possible. Construction is anticipated in summer 2018. Conceptual design alternatives and environmental documentation is being finalized. Procurement efforts are currently underway for final design services.	Summer 2020	March 2019	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Virginia Railway Express	<b>Slatters Lane Crossover</b> - Includes the design and construction of a rail crossover and related signal equipment near Slatters Lane, north of the VRE Alexandria station. It will enable trains to move between all 3 tracks and makes the east side (Metro side) platform at the VRE Alexandria station usable from both sides.	\$7,000,000 (FY2015-16)	Design Construction	Final design by CSXT began in July 2016 and recent information indicates that project is on hold pending CSX reorganization. Construction schedule pending final design. All work to be done by CSXT forces.	Summer 2017	Summer 2017	0%
Virginia Railway Express	<b>Crystal City Platform Extension Study</b> - Includes planning and engineering investigations to evaluate the options for expansion of the VRE Crystal City station that will alleviate existing crowding, improve multimodal connections, and accommodate future service expansion and bi-directional service. The project includes development of a NEPA checklist.	\$400,000 (FY2015-16)	Planning Engineering Studies	VRE Operations Board authorized RFP for consultant services in February 2016. NTP awarded in December 2016. Public outreach to solicit feedback on the proposed options and the evaluation criteria conducted in Mar/Apr 2017. In June, public outreach will be focused on the evaluation of the proposed options. An Arlington County Board Work session is scheduled for this project on June 28, 2017.	Fall 2017	December 2017	0%

Jurisdiction/ Agency	Project Description	NVTA Funds	Phase(s) Funded	Status	Completion (Project)	Completion (NVTA funded Phases)	Percentage Reimbursed as of 5/31/17
Washington Metropolitan Transit Authority	<b>8-Car Traction Upgrades</b> – Begins the process of upgrading traction power along the Orange Line by incrementally improving the power system to increase power supply capacity to support the future expanded use of eight car trains.	\$4,978,685 (FY2014)	Construction Contract Admin.	Invitation for Bid (IFB) was released 10/20/2015, bids were received 12/9/2015. Procurement determined the bid package must be resolicited. Contract was re-advertised on 3/4/2016 and second round of bids were received 3/18/2016. Contract NTP issued on 10/26/2016. Traction power gear has been manufactured and delivered. Installation of the traction power gear is scheduled to commence beginning June 2017 at both location, starting with K06TB2 Greenwich Street. NVTA funded phases are expected to be completed by November 2018, with an overall Contract Period ending in March 2018.	Projected Contract Close- out March 2018	December 2017	3.5%
Washington Metropolitan Transit Authority	<b>Blue Line 8-Car Traction Upgrades</b> – Begins the process of upgrading traction power along the Blue Line by incrementally improving the power system to increase power supply capacity to support the future expanded use of eight car trains.	\$17,443,951 (FY2017)	Engineering, Construction, Contract Admin.	Invitation for Bid (IFB) is scheduled to be released in July 2017. Contract award is estimated by November 1, 2017, NTP to immediately follow. Due to manufacturing lead times installation is estimated to commence September 2018.	Project Contract Close-out estimated June 2021	June 2021	0%