



Northern Virginia Transportation Authority
The Authority for Transportation in Northern Virginia

PLANNING AND PROGRAMMING COMMITTEE
Monday, April 18, 2016, 10:00am

Northern Virginia Transportation Authority
3040 Williams Drive, Suite 200
Fairfax, Virginia 22031

AGENDA

- I. Call to Order/Welcome** Chairman Nohe

Action

- II. Approve Summary Notes of March 28, 2016 PPC Meeting**
*Recommended Action: Approval [with abstentions
from those who were not present]*
- III. Date of Public Hearing**
*Recommended Action: Approval of recommendation to the Authority
to authorize June 9, 2016 as the date of the FY2017 Program Public Hearing*

Discussion/Information

- IV. Briefing on Transform I-66 (Outside the Beltway)** VDOT
- V. Presentation of draft HB 599 Evaluation Ratings** VDOT
- VI. NVTA Update** Ms. Backmon, Executive Director

Adjournment

- VII. Adjourn**

Next Meetings:
10:00am, Wednesday May 4, 2016, NVTA
10:00am, Tuesday June 28, 2016, NVTA



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PLANNING AND PROGRAMMING COMMITTEE

Monday, March 28, 2015, 10:00 am

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3040 Williams Drive, Suite 200

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SUMMARY NOTES

I. Call to Order/Welcome

Chairman Nohe

- Chairman Nohe called the meeting to order at 10:09 am.
- Attendees:
 - **PPC Members:** Chairman Nohe; Chairman Bulova (Fairfax County); Chair Randall, Board Member Fisette (Arlington County); Council Member Rishell (City of Manassas Park).
 - **NVTA Staff:** Monica Backmon (Executive Director); Mike Longhi (CFO); Sree Nampoothiri (Program Coordinator), Keith Jasper (Program Coordinator).
 - **Staff:** Rick Canizales (Prince William County); Tom Biesiadny, Karyn Moreland, Noelle Dominguez (Fairfax County); Joe Kroboth, Bob Brown (Loudoun County); Sarah Crawford (Arlington County); Mark Duceman (Town of Herndon); Maria Sinner (VDOT); Kate Mattice (NVTC); Rich Roisman (TPB); Sonali Soneji (VRE); Cynthia Porter Johnson (PRTC); Mark Phillips (WMATA).
 - **Other Staff:** Kimberly Bibbee (Prince William County).

Action

II. Meeting Summary Notes of November 6 and December 2, 2015, PIWG Meetings

- The November 6 and December 2, 2015, Project Implementation Working Group (PIWG) meeting summaries were unanimously approved by PIWG members who attended the respective PIWG meetings.

III. Adoption of the 2016 Meeting Calendar

- PPC members confirmed the next PPC meetings are scheduled for April 18, May 4, and June 28, 2015.
- PPC members requested NVTA staff prepare a regular PPC meeting schedule starting in September 2016, for approval at a subsequent PPC meeting.

Discussion/Information

IV. **FY2017 Program Update**

Mr. Jasper

- Ms. Backmon reported that the FY2017 Program call for projects resulted in a list of 24 candidate projects recommended for evaluation.
- Mr. Jasper provided an overview of the project selection process and the quantitative score criteria weighting adjustments previously agreed upon by the Project Implementation Working Group and approved by the Authority.
- In response to Board Member Fisette's questions regarding the project selection process, Mr. Jasper provided an overview of how the projects are analyzed and scored. He explained that the output from the HB 599 evaluation (conducted by VDOT) will be used for the congestion reduction criterion, and the other criteria are evaluated by NVTA staff based on information provided by the jurisdictions and agencies responding to the call for projects. He added that the NVTA part of this process is essentially completed for all the projects and the scores have been reported to the jurisdictions and agencies.
- Chair Randall questioned the weightings adopted for the FY2017 Program. Ms. Backmon explained that the increase from 35 to 45 percent (compared to the FY2015-16 Program) for congestion reduction was in part to align with the congestion component of Commonwealth's HB 2 process, which is weighted at 45 percent. Chairman Nohe further stated that HB 2 uses the same criterion statewide, however the HB 2 criteria weightings vary from region to region. The components that make a transportation project a good project differ depending on which region of the State is under evaluation. In Northern Virginia, congestion reduction is our highest priority. He explained when the Commonwealth Transportation Board (CTB) adopted their congestion weighting at 45 percent, it made sense to increase our weighting to 45 percent.
- Chairman Nohe pointed out that an imbalance still exists between the HB 2 and NVTA processes for HB 599 in that congestion relief is measured differently. While the HB 599 model (TRANSIMS) is robust and provides irrefutable analysis, this model is expensive and doesn't work well without a baseline of high congestion. Therefore, the State uses a simpler approach that applies to Statewide conditions more appropriately. He noted this could lead to discrepancies in results.
- Ms. Backmon reminded the committee that the project score is based on the universe of projects that the project is evaluated against; a universe of 24 projects is being evaluated for the FY2017 Program, whereas the State is evaluating a different universe of projects.
- Chairman Nohe observed that projects submitted for the FY2015-16 Program that are being resubmitted for the FY2017 Program will inevitably score differently because the universe of projects has changed; he specifically pointed out the inclusion of transit projects and mega-projects like the I-66/Route 28 interchange. He cautioned the possibility of failing to advance good projects (e.g., smaller, cost-effective projects) because they are submitted into the wrong pool of projects.

- Ms. Backmon stressed the importance of ensuring the HB 599 process is incorporated into the updated TransAction. She explained, with an updated long-range transportation plan, there will be no need for a separate HB 599 process when adopting the future Authority Six Year Program because congestion reduction, along with other performance measures, would have already been vetted through the TransAction process.
- Chairman Nohe pointed out that the law states we must give priority to projects that achieve the greatest congestion reduction relative to cost. He expressed that, ideally, we would have a universe of congestion relief scores and reliable cost estimates to evaluate; however, he cautioned that costs are always a variable.
- In response to Chair Randall's question about what constitutes "Connectivity" under quantitative scoring, Mr. Jasper clarified that the two criteria for Connectivity are connecting jurisdictions and connecting activity centers.
- Mr. Jasper reminded the group of two related policies associated with the FY2017 Program established to encourage project readiness and project advancement:
 - Jurisdictions must complete Standard Project Agreements (SPAs) for selected projects within 6 months of the adoption of the FY2017 Program (anticipated deadline is January 2017).
 - Submittal of first drawdown requests are due by June 30, 2019, by sponsors of approved projects.
- Mr. Jasper provided an overview of the schedule and upcoming milestones for the FY2017 Program. He reported completion of the project evaluations and HB 599 evaluations in April 2016 and NVTA approval of the project list for public comment (possibly all 24 projects) on May 12, 2016, which will allow the public the opportunity to comment on all 24 projects between May 17 and June 17, 2016, subject to Authority approval.
- Mr. Jasper announced that the public comment period along with town halls within the jurisdictions must take place during the public comment period. He requested that jurisdictions planning to host a town hall provide details to NVTA staff by April 29, 2016, for inclusion in NVTA's public outreach. Chairman Nohe encouraged jurisdictions to hold town halls and summarized the format of previous town halls he helped to conduct.
- Committee members expressed appreciation for Chairman Nohe's willingness to participate at their upcoming town halls.
- Mr. Jasper noted that the TransAction 2040 public outreach will also be underway during this same timeframe but he is optimistic that this will be an efficient use of resources and publicizing the two efforts in tandem will reinforce the linkage between long-range transportation planning and programming.
- Mr. Jasper reported that the PPC will be requested to recommend a date (anticipated June 9, 2016) for the FY2017 Program Public Hearing at the upcoming April PPC meeting. He added that the PPC will review project evaluations and recommend the project list for public comment at the May PPC meeting. In late June/early July (currently scheduled for June 28), the PPC will review the public comments and updated project evaluations and recommend the draft FY2017 Program to the

Authority. The Authority is anticipated to adopt the FY2017 Program on July 14, 2016.

- Mr. Jasper provided a summary of the 24 candidate projects and reminded the committee that the project details can be found on the NVTA website.
- In response to Council Member Rishell's question regarding how the Authority will fund the \$667,949,000 million requested for projects, Ms. Backmon explained that the Authority may choose to fund all 24 projects, which would require the need for bonds, or the Authority could choose to fund \$266,700,000 (estimated pay-go) or more; it will depend on the project list adopted by the Authority.
- Mr. Jasper reported that 19 of the 45 Northern Virginia projects that submitted requests for HB 2 funds are currently recommended for funding and 9 of these projects are requesting both HB 2 and FY2017 Program funds (specifically, 4 of these 9 projects are currently recommended for HB 2 funds).
- Ms. Backmon informed the committee that the State intends to fund to fruition all projects that are part of the CTB's Six Year Improvement Program under the new HB 2 process. She stated that there are some overlapping projects under consideration for the Authority's FY2017 Program in addition to the State's Six Year Improvement Program and she emphasized the importance of avoiding the over-funding of projects.
- In response to Chairman Nohe's inquiry regarding the intent of the nine projects that applied for funding from both the FY2017 Program and the State, Mr. Canizales explained that Prince William County asked for the same amount of money from both entities in order to complete the Route 1 project while, for the Route 15 project, the County asked for \$20 million from the Authority and \$25 million from the State to ensure \$45 million in funding for the project.
- Similarly, Mr. Biesiadny explained that Fairfax County requires funding from both HB 2 and the FY2017 Program to move the Route 28 project forward; however, he added that Phase 1 of the Route 7 Project appears to be fully-funded through the State, thus may not require Authority funding for completion of the first phase. (Committee members noted this could potentially "free-up" \$10 million in FY2017 funding requests.)
- Ms. Maria Sinner reported that there is a question included in HB 2 application process that queries whether funding is coming from another source; thus, the CTB will take this information under consideration prior to making their project selection for the Six Year Improvement Program on June 15, 2016.
- Chairman Nohe observed that there is a distinct likelihood that the Prince William County Route 1 project and Fairfax County Route 28 and Route 7 projects will be funded in the Six Year Improvement Plan and the five other projects for Fairfax County, Prince William County, and Town of Dumfries will not be recommended for HB 2 funds. The committee explored the possibility of, and how to address, increases and decreases in NVTA funding requests that arise as a result of State HB 2 funding determinations.
- Ms. Backmon pointed out the importance of ensuring there are no substantive changes to the projects, especially after completion of the Public Hearing and public comment timeframe. Thus, if any changes arise in the size and/or nature of the

request, this information needs to be relayed as soon as possible for PPC analysis and prior to subsequent recommendations to the Authority for release.

V. TransAction Update

Mr. Jasper

- Mr. Jasper provided a summary of the TransAction schedule, which includes many technical and public engagement tasks. He provided an overview of the TransAction activity that has led to the public outreach anticipated to start in Spring 2016.
- Mr. Jasper commended the level of effort and commitment provided by jurisdiction and agency staff who have participated in the TransAction Subcommittee and he expressed his appreciation for all the support given.
- Mr. Jasper explained that, instead of a call of projects, TransAction 2040 will utilize a comprehensive database containing all eligible regional projects that is under development in conjunction with jurisdiction and agency staff. He noted that the database currently captures about 500 candidate regional projects. He noted that filtering will be required to narrow this down to a reasonable number of projects that can be evaluated.
- In response to Council Member Rishell's question regarding a deadline for project submissions, Mr. Jasper requested that sufficient project data be submitted by the end of the month (March 2016). Ms. Backmon further confirmed that the database of projects needs to be completed by the end of the month; however, specific project-level components not yet submitted will be required for implementation into the model for analysis prior to August 2016.
- Chairman Nohe pointed out that there are projects that will be submitted that were not included in TransAction 2040 and also acknowledged that jurisdictions do not always agree whether projects should be submitted; he questioned whether there is a vetting process by which the Authority will determine if these projects are chosen.
- Ms. Backmon responded that projects are not be required to be in the locality's comprehensive plan/agency long-range plan in order to be considered. She emphasized that the Authority will ultimately be assessing the needs of the region in order to choose recommended projects.
- Chairman Nohe emphasized that the more alternatives we have in the plan, the more opportunity we have to find the most congestion-relieving/cost-effective projects to fund when the time comes.
- Mr. Jasper agreed and stated that TransAction is specifically exploring packages of projects that identify the transportation needs of the region; thus, after taking the "bottom-up" approach of understanding what projects are of interest to the jurisdictions and agencies, there will be a separate assessment to ensure the needs of the region are being addressed. Based on this analysis, he stated the Authority may intervene and additional "top-down" projects may be recommended for consideration in order to meet these needs.
- Chairman Nohe added that jurisdictions are required to notify the Virginia Department of Transportation (VDOT) and the NVTAA of any changes made to the jurisdiction's comprehensive plan so there is at least an understanding of any changes

that could affect facilities within TransAction. He pointed out that the Authority may amend the comprehensive plan to align with these changes but is not compelled to do this. Thus, the removal of a facility from a jurisdiction's comprehensive plan does not preclude it from being funded; the Authority would have to subsequently remove the facility from the long-range plan as well.

- Mr. Jasper provided an overview of the upcoming public outreach activities and summarized the two primary means of public outreach for TransAction: five workshops and ten pop-up events (event schedule provided to committee).
- Chair Bulova suggested the inclusion of a display that would capture the public's attention and provide an interesting way to show the results of improving our roads and corridors. Mr. Jasper and members of the committee agreed a visual representation of resolving our transportation challenges would be an excellent tool for public outreach.

VI. NVTA Update

Ms. Backmon

- Ms. Backmon informed the NVTA is hosting an event for the Intelligent Transportation Society of Virginia entitled "Planning for Tomorrow's Transportation, Today" on April 6, 2016, from 8:00 a.m. to 12 noon at the NVTA offices and confirmed registration is still open if members of the group are interested in attending.
- Ms. Backmon also reminded the group of the interactive strategic planning work session to be held on Monday, April 11, 2016, to address "What Does the Authority Want to Be When It Grows Up" from 10:00 a.m. to 2:00 p.m.

Adjournment

VII. Adjourn

- The meeting adjourned at 11:53 am.



Evaluation of Significant Transportation Projects in NoVA (FY17)

Draft Project Performance and Ratings

NVTA Planning and Programming Committee

4/18/16

Agenda

- **Background**
- **Implementation**
 - **FY15-16 Nominated Projects**
 - **FY17 Nominated Projects**
- **Meetings with Localities**
- **2020 and 2040 Performance and Ratings**
- **Discussion**
- **Next Steps**

Background: Legislation

- **HB599 was passed by the 2012 VA General Assembly**
 - **Mandated that VDOT evaluate and rate at least 25 significant transportation projects in the NOVA transportation district**
 - **Ratings to be based on the project's ability to reduce congestion and improve mobility during a homeland security emergency**
- **HB2313 was passed by the 2013 VA General Assembly**
 - **Provided a revenue stream for NVTAA to fund projects**
 - **70% of the revenues to fund projects rated by HB599 and in the regional transportation plan**
 - **Pertained to all projects other than transit capacity projects**
 - **Amended in 2015 to require ratings for transit projects**

Background: Development

- In 2013-2014, VDOT and DRPT, with CTB, NVTA and NOVA localities, implemented an evaluation and rating process
 - Used detailed transportation demand models to assess the congestion and mobility impacts in 2020 and 2040
 - Included stakeholder reviews and a Peer Review Group, consisting of subject matter experts from outside of Virginia
 - Developed performance measures and weights in cooperation with stakeholders and NVTA
 - Multimodal performance measures selected
 - Used *Decision Lens* process to facilitate weighting of performance measures

Performance Measures

Congestion Reduction Measures

- **Congestion Duration (27.9%)** = reduction in the number of hours of the day auto and transit passengers experience heavily congested travel conditions.
- **Person Hours of Delay (20.3%)** = reduction in the number of person hours of travel time above free flow travel time.
- **Person Hours of Congested Travel in Automobiles (15.4%)** = reduction in the number of person hours of travel in automobiles and trucks on heavily congested facilities.
- **Person Hours of Congested Travel in Transit Vehicles (11.8%)** = reduction in the number of person hours of travel in buses and trains on heavily congested facilities or in crowded vehicles.
- **Transit Crowding (11.5%)** = reduction in the number of transit person miles experiencing crowded conditions (local bus > 1.0; express bus and commuter rail > 0.9; Metrorail > 100 passengers/car).

Mobility Measures

- **Accessibility to Jobs (9.5%)** = increase in the number of jobs that can be reached from each household based on a 45 minute travel time by automobile and a 60 minute travel time by transit.
- **Emergency Mobility (3.6%)** = increase in the person hours of travel time resulting from a 10 percent increase in peak hour trip making.

Project Ratings

- **Project performance score is based on the project that generated the greatest change for a given measure**
 - **The project with the greatest change is awarded 100 points**
 - **All other projects are awarded a performance score by dividing their performance by the greatest performance change**
- **Rating = the performance measure score (0-100) multiplied by the performance measure weight and summed**

FY15-16 Nominated Projects

- **The first application of the HB599 process was for the NVTA FY15-16 program**
 - **37 highway/ITS projects were evaluated and rated**
 - **NVTA used the HB599 2040 ratings to measure congestion relief in their scoring and prioritizing of projects**
 - **The ratings accounted for 35% of the NVTA score**

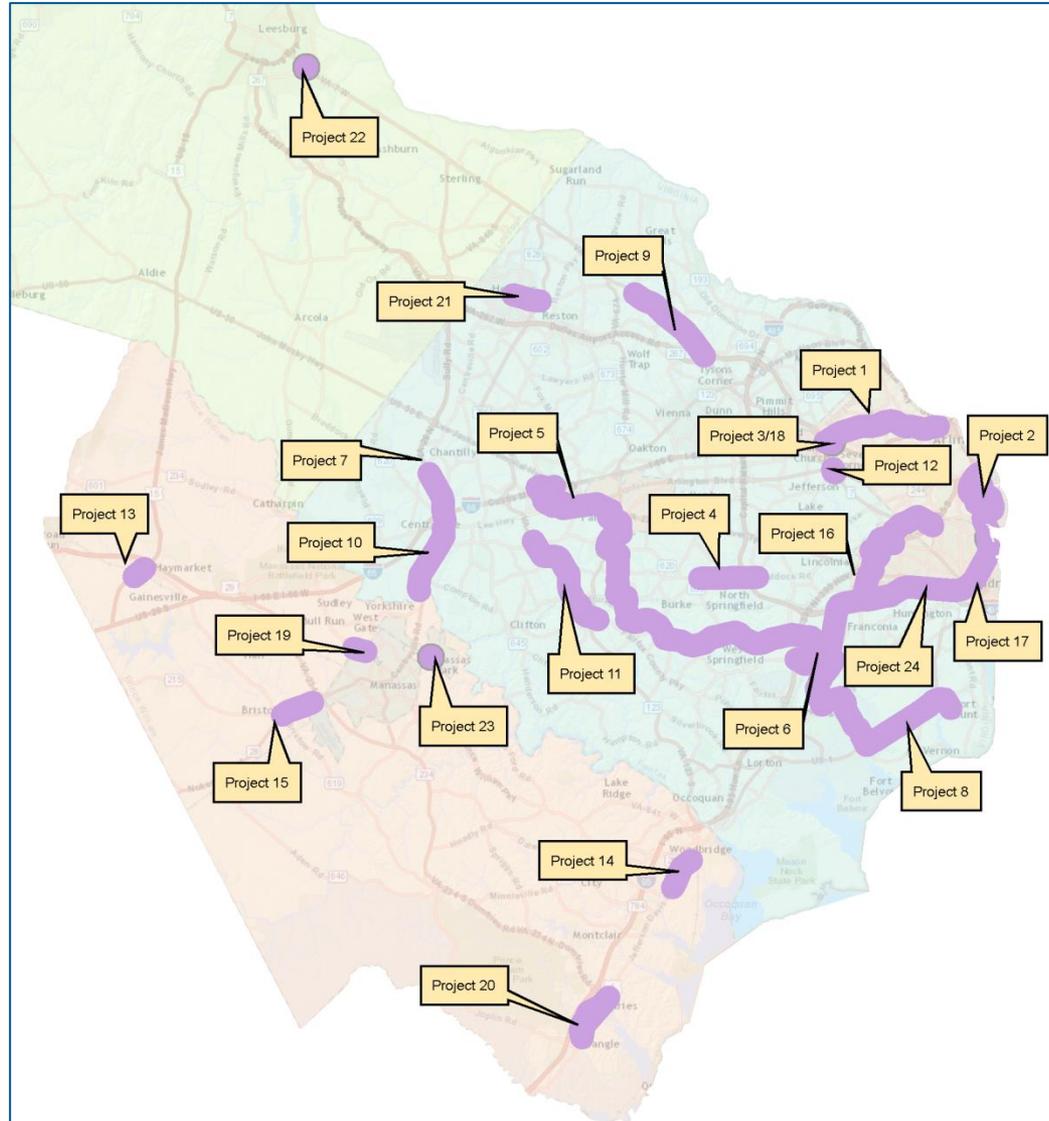
Process Changes for FY17 Application

- **Modified process to evaluate and rate transit projects**
 - **Tested three sample large scale transit projects (fall 2015)**
- **Process can now evaluate multimodal projects with both highway and transit components**
- **Updated land uses and networks to 2015 Constrained Long Range Plan and Cooperative Forecasts (Round 8.4) for 2020 and 2040**
 - **Includes Transform66 projects inside and outside the Beltway**
- **Removed all nominated projects from baseline networks and added back one by one**
 - **Provides a common base for all projects**
- **Reevaluated projects re-submitted from the FY15-16 program using improved models**

NVTA FY17 Nominated Projects

ID	Code	Project Name	Location
1	6R	Lee Highway Corridor ITS Enhancements	Arlington
2	8Y	Crystal City Streets	Arlington
3	6S	East Falls Church Bikeshare Connections	Arlington
4	7D	Braddock Road HOV Widening	Fairfax
5	9P	Fairfax Connector Bus Purchase and Service	Fairfax
6	8Z	Frontier Drive Extension and Braided Ramps	Fairfax
7	6T	I-66-Route 28 Interchange Improvements	Fairfax
8	8AA	Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax
9	1S	Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax
10	3M	Route 28 Widening (PWC Line to Route 29)	Fairfax
11	5D	Fairfax County Pkwy (Route 123 to Route 29)	Fairfax
12	6U	Seven Corners Ring Road Improvements	Fairfax
13	6V	Widen Route 15 (Route 55 to south of RR Tracks)	PWC
14	8BB	Widen Route 1 (Featherstone Rd to Mary's Way)	PWC
15	3N	Widen Route 28 (Route 234 to Linton Hall Rd)	PWC
16	8CC	Westend Transitway	Alexandria
17	8DD	Potomac Yard Metrorail Station	Alexandria
18	6W	Bikeshare Connections to Metrorail Stations	Falls Church
19	3P	Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas
20	8EE	Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries
21	1T	East Elden Street Widening	Herndon
22	1U	Route 7 - Battlefield Parkway Interchange	Leesburg
23	3Q	VRE Manassas Park Station Parking Expansion	VRE
24	8FF	Metrorail Blue Line Traction Power Upgrade	WMATA

FY17 Project Location Map



FY17 Nominated Project Types

- **24 projects nominated by NVTA**
 - **13 roadway improvements/widenings**
 - **6 transit projects**
 - **2 interchange construction**
 - **1 ITS traveler information / traffic management project**
 - **1 combined bike/ped/transit project**

Meetings with Localities

- **February 16 – March 11: meetings / webinars with stakeholders to review project coding and impact areas**
- **April 1 – April 12: meetings / webinars with stakeholders to review project results and preliminary ratings**
 - **Described the changes to the process**
 - **Showed maps of volume and congestion impacts**
 - **Shared project-specific performance measures and draft ratings for locality's projects only**
 - **Discussed issues and potential refinements based on comments**

2020 Performance Ratings

2020 Performance Measures (4/15/16 Final Draft)			Reduce Congestion Duration (hrs*In-mi)	Reduce Person Hours of Delay	Reduce Congested Person Hours in Autos	Reduce Congested Person Hours in Transit	Reduce Transit Crowding (PMT)	Increase Access to Jobs (45/60 minutes)	Improve Emergency Mobility (hours)	Project Rating
ID	Project Name	Location	27.9%	20.3%	15.4%	11.8%	11.5%	9.5%	3.6%	100.0%
	Northern Virginia Totals	NoVA	9,735	1,305,731	1,233,467	140,042	273,982	1,454,449	740,144	
7	6T I-66-Route 28 Interchange Improvements	Fairfax	(52.0)	(11,095)	(11,486)	(82.0)	(37.3)	3,233	(4,898)	77.4
10	3M Route 28 Widening (PWC Line to Route 29)	Fairfax	(49.3)	(6,477)	(7,994)	(37.3)	(9.8)	3,303	(2,756)	60.9
24	8FF Metrorail Blue Line Traction Power Upgrade	WMATA	(5.9)	(3,130)	(531)	(1,490.9)	(1,856.0)	3,010	(2,999)	43.8
11	5D Fairfax County Pkwy (Route 123 to Route 29)	Fairfax	(45.5)	(4,594)	(3,256)	(34.3)	(8.4)	1,574	(1,174)	42.9
8	8AA Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax	(32.7)	(1,583)	(1,021)	(29.9)	(9.6)	2,573	(847)	30.1
4	7D Braddock Road HOV Widening	Fairfax	(26.6)	(2,132)	(3,349)	(575.3)	(10.8)	744	(297)	29.6
17	8DD Potomac Yard Metrorail Station	Alexandria	(6.1)	(3,287)	(1,380)	(1,380.5)	(50.5)	1,928	(765)	28.5
14	8BB Widen Route 1 (Featherstone Rd to Mary's Way)	PWC	(9.1)	(3,677)	(4,112)	(52.5)	(13.5)	2,162	(612)	24.3
20	8EE Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries	(10.3)	(4,009)	(4,201)	(1.6)	-	1,202	(447)	22.3
9	1S Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax	(17.0)	(2,535)	(3,402)	(25.3)	(4.5)	965	(1,145)	22.2
15	3N Widen Route 28 (Route 234 to Linton Hall Rd)	PWC	(17.1)	(1,206)	(814)	(2.6)	(3.2)	453	(211)	14.0
16	8CC Westend Transitway	Alexandria	(4.5)	(1,344)	(1,050)	(440.4)	(116.0)	848	(583)	13.4
1	6R Lee Highway Corridor ITS Enhancements	Arlington	(8.6)	(553)	(401)	(18.7)	(14.6)	306	(115)	7.4
23	3Q VRE Manassas Park Station Parking Expansion	VRE	(3.2)	(1,370)	(92)	(40.0)	(13.0)	863	(58)	7.3
22	1U Route 7 - Battlefield Parkway Interchange	Leesburg	(10.5)	(275)	(49)	(1.5)	-	115	(221)	6.7
6	8Z Frontier Drive Extension and Braided Ramps	Fairfax	(7.2)	(435)	(120)	(35.8)	(1.8)	208	(148)	5.8
19	3P Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas	(4.6)	(334)	(291)	(2.4)	-	261	(56)	4.3
2	8Y Crystal City Streets	Arlington	(3.1)	(237)	(56)	(80.2)	(9.3)	370	(43)	4.0
5	9P Fairfax Connector Bus Purchase and Service	Fairfax	(2.8)	(247)	(47)	(59.0)	(20.0)	369	(48)	3.7
12	6U Seven Corners Ring Road Improvements	Fairfax	(4.5)	(224)	(245)	(2.8)	(1.1)	110	(85)	3.6
13	6V Widen Route 15 (Route 55 to south of RR Tracks)	PWC	(3.5)	(157)	(140)	(1.7)	-	38	(97)	2.6
3	6S East Falls Church Bikeshare Connections	Arlington	(1.8)	(110)	(83)	(44.2)	(10.4)	133	(125)	2.2
18	6W Bikeshare Connections to Metrorail Stations	Falls Church	(1.8)	(110)	(83)	(44.2)	(10.4)	133	(125)	2.2
21	1T East Elden Street Widening	Herndon	(1.2)	(56)	(174)	(2.1)	(0.4)	19	(51)	1.1

2040 Performance Ratings

2040 Performance Measures (4/15/16 Final Draft)			Reduce Congestion Duration (hrs*In-mi)	Reduce Person Hours of Delay	Reduce Congested Person Hours in Autos	Reduce Congested Person Hours in Transit	Reduce Transit Crowding (PMT)	Increase Access to Jobs (45/60 minutes)	Improve Emergency Mobility (hours)	Project Rating
ID	Project Name	Location	27.9%	20.3%	15.4%	11.8%	11.5%	9.5%	3.6%	100.0%
	Northern Virginia Totals	NoVA	12,053	1,760,909	1,663,223	163,887	342,478	1,818,061	976,214	
7	6T I-66-Route 28 Interchange Improvements	Fairfax	(52.0)	(13,446)	(13,318)	(143.6)	(65.5)	4,670	(8,382)	78.2
10	3M Route 28 Widening (PWC Line to Route 29)	Fairfax	(48.8)	(6,703)	(8,681)	(56.3)	(15.0)	4,117	(4,488)	57.1
9	1S Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax	(49.9)	(7,281)	(9,214)	(68.8)	(46.5)	2,334	(3,461)	55.5
24	8FF Metrorail Blue Line Traction Power Upgrade	WMATA	(17.6)	(4,813)	(1,240)	(1,656.5)	(1,439.0)	1,936	(1,531)	46.0
11	5D Fairfax County Pkwy (Route 123 to Route 29)	Fairfax	(40.4)	(6,230)	(5,230)	(58.8)	(14.0)	2,247	(2,619)	43.4
17	8DD Potomac Yard Metrorail Station	Alexandria	(24.1)	(4,617)	(1,688)	(1,519.5)	(65.7)	1,325	(1,069)	36.4
8	8AA Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax	(33.0)	(1,666)	(4,673)	(81.0)	(26.5)	4,415	(926)	35.8
14	8BB Widen Route 1 (Featherstone Rd to Mary's Way)	PWC	(21.2)	(5,296)	(6,216)	(84.0)	(13.5)	3,110	(857)	34.0
20	8EE Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries	(15.0)	(5,877)	(6,351)	(2.5)	-	1,760	(625)	28.1
4	7D Braddock Road HOV Widening	Fairfax	(25.5)	(1,368)	(1,871)	(441.9)	(16.0)	1,226	(737)	24.0
15	3N Widen Route 28 (Route 234 to Linton Hall Rd)	PWC	(25.6)	(2,019)	(1,356)	(3.4)	(3.4)	751	(342)	20.1
16	8CC Westend Transitway	Alexandria	(5.6)	(1,745)	(1,397)	(657.0)	(272.0)	1,021	(628)	16.5
22	1U Route 7 - Battlefield Parkway Interchange	Leesburg	(19.1)	(772)	(639)	(2.5)	(2.0)	1,024	(483)	14.5
6	8Z Frontier Drive Extension and Braided Ramps	Fairfax	(13.8)	(603)	(599)	(41.3)	(2.2)	242	(508)	10.0
1	6R Lee Highway Corridor ITS Enhancements	Arlington	(10.1)	(1,211)	(878)	(48.0)	(36.5)	514	(136)	10.0
12	6U Seven Corners Ring Road Improvements	Fairfax	(11.4)	(530)	(1,332)	(22.6)	(2.2)	172	(341)	9.1
19	3P Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas	(10.4)	(794)	(629)	(3.2)	(0.5)	433	(186)	8.5
23	3Q VRE Manassas Park Station Parking Expansion	VRE	(4.2)	(1,501)	(170)	(48.0)	(15.0)	956	(43)	7.1
2	8Y Crystal City Streets	Arlington	(3.4)	(357)	(299)	(137.8)	(15.0)	379	(109)	4.6
5	9P Fairfax Connector Bus Purchase and Service	Fairfax	(4.2)	(314)	(65)	(74.1)	(25.0)	333	(55)	4.2
13	6V Widen Route 15 (Route 55 to south of RR Tracks)	PWC	(4.8)	(267)	(262)	(2.0)	-	62	(172)	3.5
21	1T East Elden Street Widening	Herndon	(3.8)	(115)	(210)	(4.2)	(0.4)	21	(60)	2.6
3	6S East Falls Church Bikeshare Connections	Arlington	(2.0)	(146)	(110)	(55.0)	(13.0)	94	(163)	2.2
18	6W Bikeshare Connections to Metrorail Stations	Falls Church	(2.0)	(146)	(110)	(55.0)	(13.0)	94	(163)	2.2

Performance Rating Summary

2020 Project Ranking (4/15/16 Final Draft)				Project Rating
ID	Project Name	Location		
7	6T	I-66-Route 28 Interchange Improvements	Fairfax	77.4
10	3M	Route 28 Widening (PWC Line to Route 29)	Fairfax	60.9
24	8FF	Metrorail Blue Line Traction Power Upgrade	WMATA	43.8
11	5D	Fairfax County Pkwy (Route 123 to Route 29)	Fairfax	42.9
8	8AA	Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax	30.1
4	7D	Braddock Road HOV Widening	Fairfax	29.6
17	8DD	Potomac Yard Metrorail Station	Alexandria	28.5
14	8BB	Widen Route 1 (Featherstone Rd to Mary's Way)	PWC	24.3
20	8EE	Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries	22.3
9	1S	Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax	22.2
15	3N	Widen Route 28 (Route 234 to Linton Hall Rd)	PWC	14.0
16	8CC	Westend Transitway	Alexandria	13.4
1	6R	Lee Highway Corridor ITS Enhancements	Arlington	7.4
23	3Q	VRE Manassas Park Station Parking Expansion	VRE	7.3
22	1U	Route 7 - Battlefield Parkway Interchange	Leesburg	6.7
6	8Z	Frontier Drive Extension and Braided Ramps	Fairfax	5.8
19	3P	Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas	4.3
2	8Y	Crystal City Streets	Arlington	4.0
5	9P	Fairfax Connector Bus Purchase and Service	Fairfax	3.7
12	6U	Seven Corners Ring Road Improvements	Fairfax	3.6
13	6V	Widen Route 15 (Route 55 to south of RR Tracks)	PWC	2.6
3	6S	East Falls Church Bikeshare Connections	Arlington	2.2
18	6W	Bikeshare Connections to Metrorail Stations	Falls Church	2.2
21	1T	East Elden Street Widening	Herndon	1.1

2040 Project Ranking (4/15/16 Final Draft)				Project Rating
ID	Project Name	Location		
7	6T	I-66-Route 28 Interchange Improvements	Fairfax	78.2
10	3M	Route 28 Widening (PWC Line to Route 29)	Fairfax	57.1
9	1S	Route 7 Widening (Colvin Forest to Jarrett Valley)	Fairfax	55.5
24	8FF	Metrorail Blue Line Traction Power Upgrade	WMATA	46.0
11	5D	Fairfax County Pkwy (Route 123 to Route 29)	Fairfax	43.4
17	8DD	Potomac Yard Metrorail Station	Alexandria	36.4
8	8AA	Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax	35.8
14	8BB	Widen Route 1 (Featherstone Rd to Mary's Way)	PWC	34.0
20	8EE	Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries	28.1
4	7D	Braddock Road HOV Widening	Fairfax	24.0
15	3N	Widen Route 28 (Route 234 to Linton Hall Rd)	PWC	20.1
16	8CC	Westend Transitway	Alexandria	16.5
22	1U	Route 7 - Battlefield Parkway Interchange	Leesburg	14.5
6	8Z	Frontier Drive Extension and Braided Ramps	Fairfax	10.0
1	6R	Lee Highway Corridor ITS Enhancements	Arlington	10.0
12	6U	Seven Corners Ring Road Improvements	Fairfax	9.1
19	3P	Sudley Road Westbound (Godwin Dr to Dorsey)	Manassas	8.5
23	3Q	VRE Manassas Park Station Parking Expansion	VRE	7.1
2	8Y	Crystal City Streets	Arlington	4.6
5	9P	Fairfax Connector Bus Purchase and Service	Fairfax	4.2
13	6V	Widen Route 15 (Route 55 to south of RR Tracks)	PWC	3.5
21	1T	East Elden Street Widening	Herndon	2.6
3	6S	East Falls Church Bikeshare Connections	Arlington	2.2
18	6W	Bikeshare Connections to Metrorail Stations	Falls Church	2.2

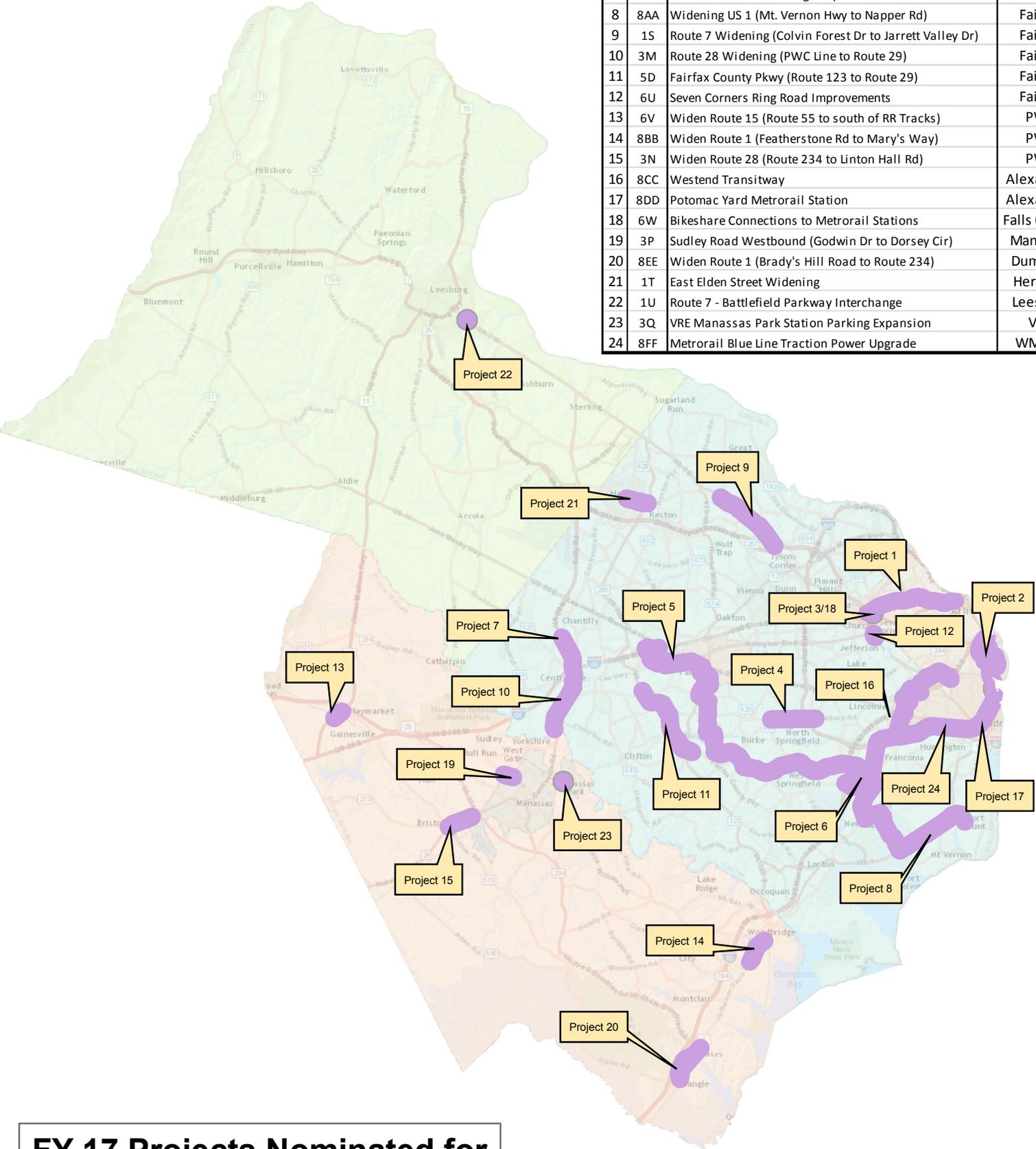
Next Steps

- **Receive comments from PPC**
- **Share Ratings with NVTA TAC – April 20**
- **Address comments and revise ratings if necessary**
- **Provide final ratings to NVTA – April 30th**



FY17 Project Nominations

ID	Code	Project Name	Location
1	6R	Lee Highway Corridor ITS Enhancements	Arlington
2	8Y	Crystal City Streets	Arlington
3	6S	East Falls Church Bikeshare Connections	Arlington
4	7D	Braddock Road HOV Widening	Fairfax
5	9P	Fairfax Connector Bus Purchase and Service Expansion	Fairfax
6	8Z	Frontier Drive Extension and Braided Ramps	Fairfax
7	6T	I-66-Route 28 Interchange Improvements	Fairfax
8	8AA	Widening US 1 (Mt. Vernon Hwy to Napper Rd)	Fairfax
9	1S	Route 7 Widening (Colvin Forest Dr to Jarrett Valley Dr)	Fairfax
10	3M	Route 28 Widening (PWC Line to Route 29)	Fairfax
11	5D	Fairfax County Pkwy (Route 123 to Route 29)	Fairfax
12	6U	Seven Corners Ring Road Improvements	Fairfax
13	6V	Widen Route 15 (Route 55 to south of RR Tracks)	PWC
14	8BB	Widen Route 1 (Featherstone Rd to Mary's Way)	PWC
15	3N	Widen Route 28 (Route 234 to Linton Hall Rd)	PWC
16	8CC	Westend Transitway	Alexandria
17	8DD	Potomac Yard Metrorail Station	Alexandria
18	6W	Bikeshare Connections to Metrorail Stations	Falls Church
19	3P	Sudley Road Westbound (Godwin Dr to Dorsey Cir)	Manassas
20	8EE	Widen Route 1 (Brady's Hill Road to Route 234)	Dumfries
21	1T	East Elden Street Widening	Herndon
22	1U	Route 7 - Battlefield Parkway Interchange	Leesburg
23	3Q	VRE Manassas Park Station Parking Expansion	VRE
24	8FF	Metrorail Blue Line Traction Power Upgrade	WMATA



FY 17 Projects Nominated for HB 599 Evaluation and Rating

Project_Location



NVTA FY17 Nominated Project Descriptions - Draft 4/18/16

ID	NVTA ID	Project Name	Jurisdiction	Description
1	6R	Lee Highway Corridor ITS Enhancements	Arlington	The Lee Highway ITS project proposes to install an Intelligent Transportation System and corresponding Adaptive Traffic Control System along Lee Highway between the City of Falls Church to near the DC border in Rosslyn to better manage traffic flow for both buses and autos. The project includes additional bluetooth devices, count stations, CCTV cameras and Forward Looking Infrared detectors. The traffic signals at the interchange of Lee Highway and I-66 will also be upgraded.
2	8Y	Crystal City Streets	Arlington	Project includes reconfiguring 12th Street South to extend the CCPY Transitway, improvement of intersections including pedestrian accessibility and safety, and the realignment of a segment of Clark Street with Bell Street, creating a more efficient street network.
3	6S	East Falls Church Regional and Bikeshare Connections	Arlington	Project includes addition of up to two bus bays at the East Falls Church Station, upgrade and expand bus shelters and seating at the station, addition of a bus only access lane from North Sycamore Street, sidewalk improvements at park and ride entrance, and the installation of 6 Capital Bikeshare stations within one mile of the Metro entrance.
4	7D	Braddock Road HOV widening	Fairfax	Widen Braddock Road from six general purpose lanes to eight lanes with one designated as HOV/HOT/Transit lane in each direction from Burke Lake Road to I-495. Project includes access management, intersection and signalization improvements, and pedestrian and bicycle facilities.
5	9P	Fairfax Connector Bus Purchase and Service Expansion	Fairfax	Purchase of (11) 40-ft buses to support new cross-county and new and expanded south county Metro feeder service. New cross county service will provide a connection between the I-66/Fair Oaks and Springfield areas via Burke Center. New and expanded south county service will connect Springfield with the Richmond Highway corridor and with the Van Dorn Metro Station.
6	8Z	Frontier Drive Extension and Braided Ramps	Fairfax	Extension of Frontier Drive from Franconia-Springfield Parkway to Loisdale Road, including access to the Franconia-Springfield Metro Station and braided ramps to and from the Franconia-Springfield Parkway. Provides on-street parking and pedestrian and bicycle facilities.
7	6T	I-66/Route 28 Interchange improvements	Fairfax	The project eliminates four traffic lights on Route 28, adds a new bridge to funnel traffic from Poplar Tree Road to the Ellanor Lawrence Park, provides a new accessway to the park from Route 28, improves bridges on Route 28 over I-66, and provides new access ramps to the proposed managed lanes on I-66.
8	8AA	Widen US 1 (Mt. Vernon Highway to Napper Road)	Fairfax	Widening of 2.9 miles of Richmond Highway between Mt. Vernon Highway to Napper Road from 4 to 6 lanes. Includes bicycle and pedestrian facilities and provisions for future transit.
9	1S	Route 7 Widening - Phase 1	Fairfax	Widening of 3.6 miles of Route 7 between Colvin Forest Drive and Jarrett Valley Drive from 4 to 6 lanes. Includes intersection improvements, and bicycle and pedestrian facilities.
10	3M	Route 28 Widening (PWC line to Route 29)	Fairfax	Widening of Route 28 between the Prince William County line and Route 29 in Centreville from 4 to 6 lanes. Includes intersection improvements and bicycle and pedestrian facilities.
11	5D	Fairfax County Parkway widening (Route 123 to Route 29)	Fairfax	Widen Fairfax County Parkway from four lanes divided to six lanes divided from Route 123 to Route 29. Includes improved bicycle and pedestrian amenities and intersection improvements.
12	6U	Seven Corners Ring Road improvements	Fairfax	Design and purchase right of way for the first phase of a new Seven Corners interchange which includes the ring road around the southwest side of the interchange from Route 50 west of the interchange to Sleepy Hollow Road at Castle Court.
13	6V	Widen Route 15 and construct overpass	Prince William	Widen Route 15 for 0.6 miles from 2 to 4 lanes between Route 55 and 1200' south of the Norfolk Southern Railroad tracks and construct an overpass over the tracks. Includes construction of a shared use path, connecting the sections both north and south of the tracks.

14	8BB	Widen Route 1 (Featherstone Rd to Marys Way)	Prince William	Widen 1.31 miles of Route 1 from 4 to 6 lanes from Featherstone Road to Mary's Way. Includes bicycle and pedestrian improvements.
15	3N	Widen Route 28 (Route 234 to Linton Hall Rd)	Prince William	Widen 1.5 miles of Route 28 from a 4-lane undivided to a 6-lane divided highway, between Pennsylvania Avenue and Linton Hall Road. Includes bicycle and pedestrian facilities.
16	8CC	Westend Transitway	Alexandria	A transitway operating between Van Dorn Metro Station and the Pentagon using two alignments. The project will connect the Van Dorn and Pentagon Metro Stations to Landmark Mall, Mark Center, Southern Towers, the Shirlington Transit Center and the Pentagon.
17	8DD	Potomac Yard Metro Station	Alexandria	Construction of a new Metro station and ancillary facilities at Potomac Yard on the Blue/Yellow lines between National Airport and Braddock Road Metro stations. Will serve existing neighborhoods and retail centers as well as high-density transit-oriented development planned by the City.
18	6W	Bikeshare Connections to Metrorail Stations	Falls Church	Provide additional access to the East Falls Church Metro station by installing up to 16 bikeshare stations along city streets. Provides connection to Orange/Silver lines of Metrorail as well as bus services serving the station. Provides last mile access to Falls Church workers using the regional transit network. Combined with project #3.
19	3P	Sudley Road westbound	Manassas	Widening of westbound Sudley Road (Route 234) from 2 to 3 lanes from Godwin Drive to Dorsey Circle. Includes addition of pedestrian facilities.
20	8EE	Widen Route 1 (Brady's Hill Rd to Route 234)	Dumfries	The project will widen northbound Route 1 from 2 lanes undivided to 6 lanes divided from Brady's Hill Road to Possum Point Road so both NB/SB traffic will be on the same alignment as northbound, and widen Route 1 NB/SB lanes from 4 lanes undivided to 6 lanes divided from Possum Point Road to Route 234 Dumfries. This 2.1 mile project will provide bicycle and pedestrian facilities and will convert existing Route 1 southbound along Main Street in Dumfries to a two way local roadway.
21	1T	East Elden Street Widening	Herndon	Widen and reconstruct East Elden Street for 1.0 miles between the Fairfax County Parkway and Monroe St. Segments include a 4 to 6 lane widening between Fairfax County Parkway and Herndon Parkway, 4 lanes with a landscaped median and turn lanes between Herndon Parkway and Van Buren, and transitioning to a 2-lane section with left turn lanes between Van Buren and Monroe Street. Project includes bicycle and pedestrian enhancements and facilities.
22	1U	Route 7- Battlefield Parkway Interchange	Leesburg	Grade separate Route 7 and Battlefield Parkway to improve safety and improve pedestrian and vehicle flow.
23	3Q	VRE Manassas Park Station Parking Expansion	VRE	The project includes analysis of alternatives as well as design and construction for additional parking and pedestrian connections at the VRE Manassas Park Station. A need has been identified for approx. 500 more spaces for VRE riders. The size and location of the proposed parking facility and pedestrian access to the platform will be determined through the currently funded study.
24	8FF	Metrorail Blue Line Traction Power Upgrades	WMATA	Increasing the power supply of the Metro system to support consistent deployment of eight-car trains. This portion of the system-wide upgrade focuses on the Blue Line, and includes the purchase and installation of tie breaker equipment, power substations, and direct-current gear.

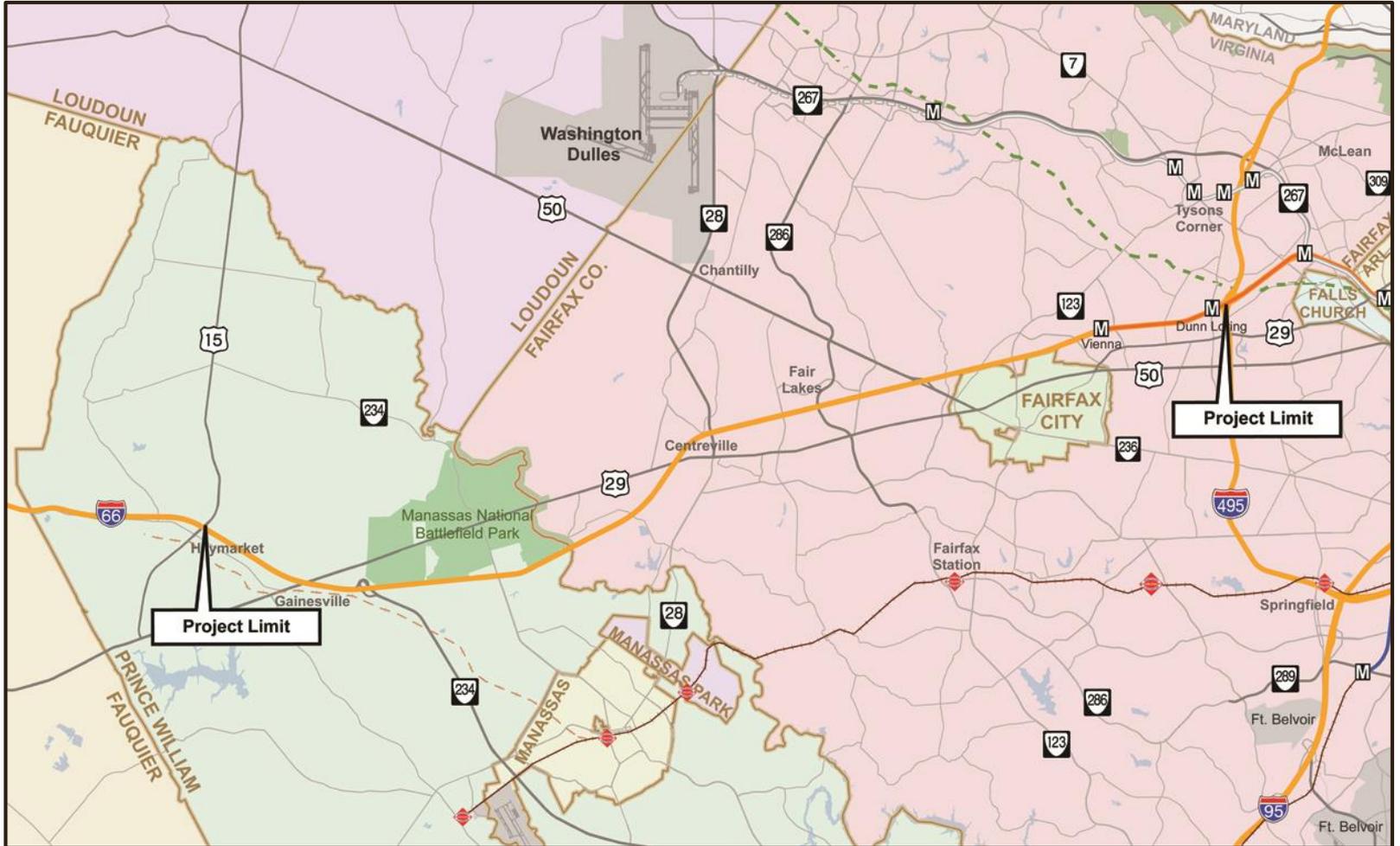


Multimodal Solutions - 495 to Haymarket

Northern Virginia Transportation Authority
Renée Hamilton
VDOT Deputy District Administrator

April 18, 2016

Project Map



Multimodal Solutions - 495 to Haymarket

Project Background

Dates	Key Milestones
November 2013	FHWA approved Tier 1 Environmental Impact Statement with a Record of Decision
July 2014	Launched Tier 2 Environmental Assessment (EA) and Transform 66 Outside the Beltway
February 2015	Project submitted for consideration in region's Air Quality Conformity Analysis for Constrained Long Range Plan (CLRP)
May/June 2015	NEPA Public Hearings for Draft EA
August 2015	Commissioner's Finding of Public Interest
September 2015	Preferred Alternative and Phasing Approach: Briefings to CTB and Elected Officials; RFQ posted
October 2015	Inclusion in Region's Transportation Planning Board's Constrained Long Range Plan
October 2015	CTB Approved Preferred Alternative and Phased Approach
December 2015	Decision on Procurement: Toll Concession
March 2016	TPB approved preferred alternative for the air quality conformity analysis for 2016 CLRP amendment



Project Scope

Preferred Alternative

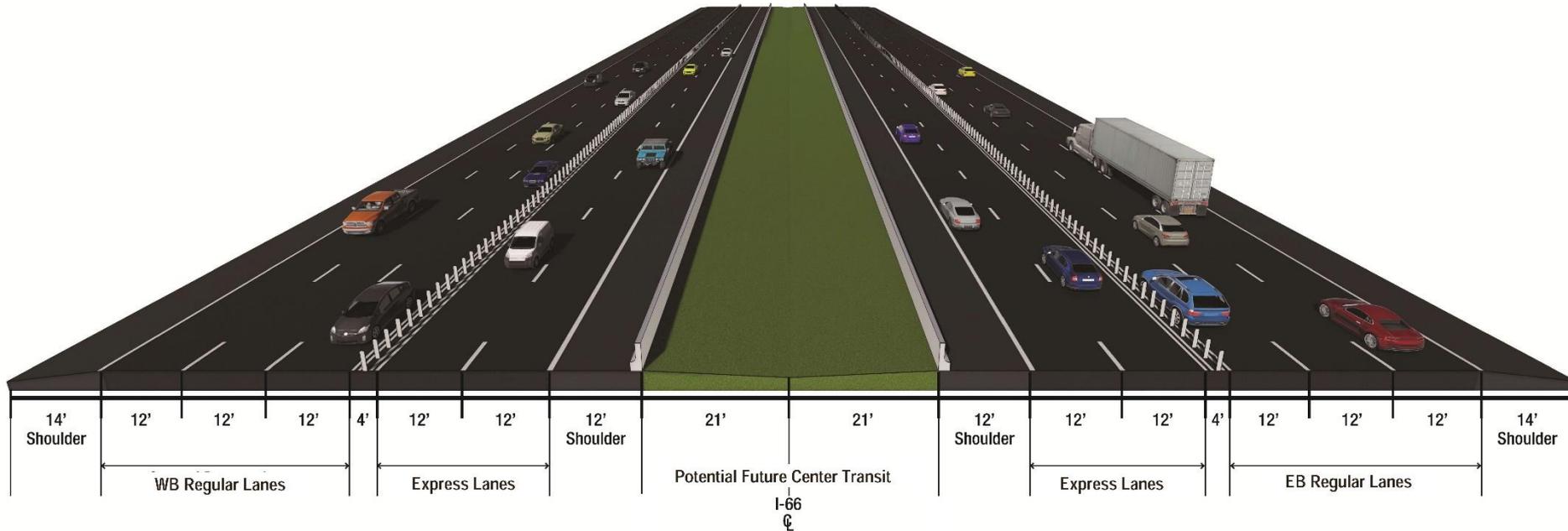
- Two Express Lanes (convert existing HOV lane & add one lane)
- Three regular lanes
- New transit service and other multimodal improvements

Project Phasing

- Elements of Phase 1
 - Provides 2 Express Lanes in each direction to Gainesville (University Boulevard)
 - Provides new transit service and park-and-ride facilities
 - Makes safety and operational improvements at key interchanges
- Future Phases
 - Included in Preferred Alternative and environmental document
 - Elements can be implemented to meet future demand as funding becomes available



Preferred Alternative Mainline Cross Section



Flexible barrier with buffer, median for potential future transit
(with auxiliary lanes, if needed)



Route 28 Interchange 2015 Traffic Volumes

Total Traffic Utilizing the interchange

- Route 28 Through Traffic Northbound and Southbound
- Ramps from I-66 to Route 28
- Ramps from Route 28 to I-66

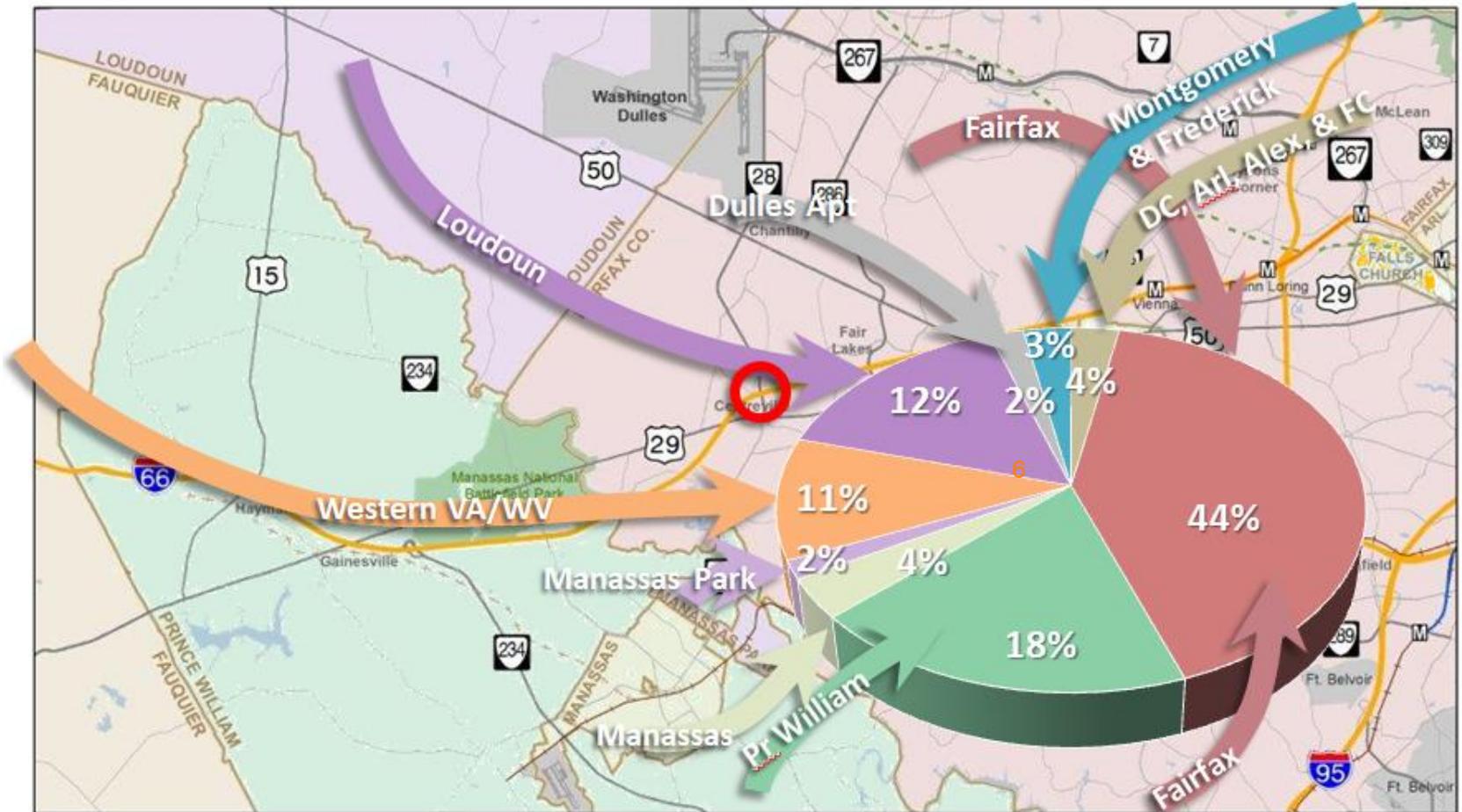
AM Peak Hour = 8,450 vehicles per hour

PM Peak Hour = 9,500 vehicles per hour



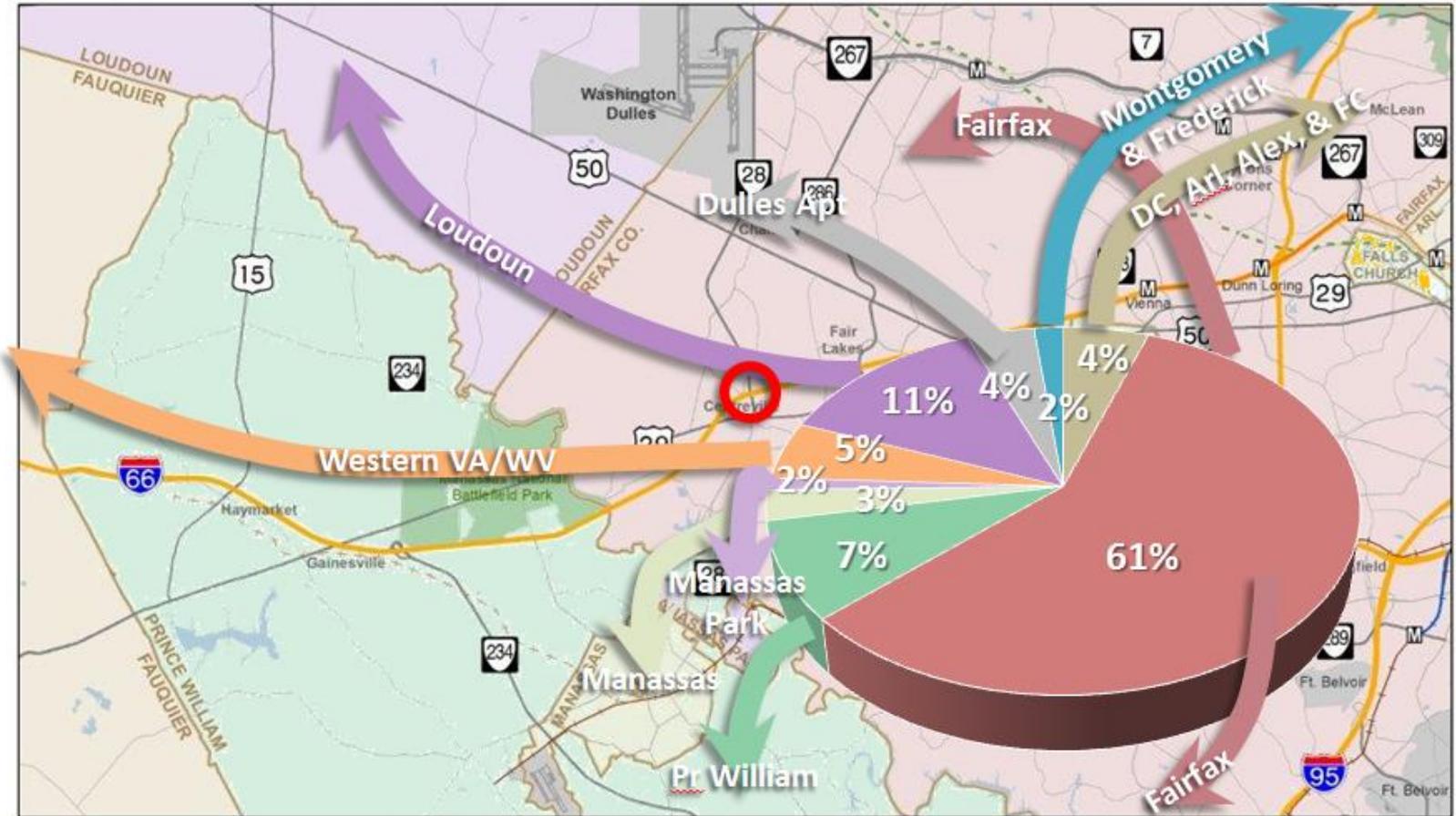
Existing Use of I-66 / VA 28 Interchange

Origin– AM Peak Period



Existing Use of I-66 / VA 28 Interchange

Destination– AM Peak Period



Route 28 Interchange Improvements

- Retains existing movements between Route 28 and I-66 general purpose lanes
- Adds critical access points between Route 28 and new express lanes on I-66
- Removes all four existing traffic signals between Westfields and I-66 along Route 28
- Relocates access to EC Lawrence Park from Route 28 to Stonecroft Boulevard

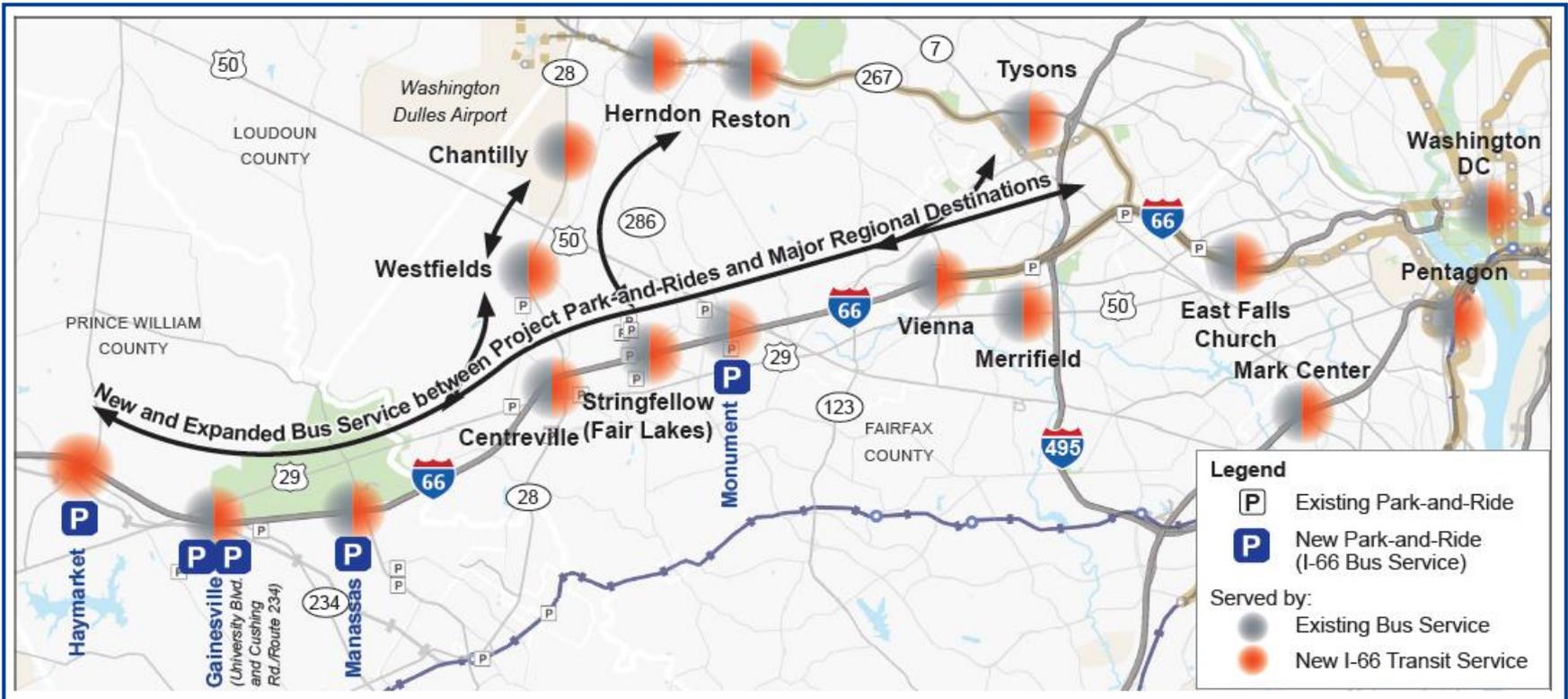


Multimodal Improvements

- Public-Private Partnership (P3) Agreement guarantees funding for investment in new transit service in the I-66 corridor
- Transform 66: Outside the Beltway Multimodal Program will include:
 - New point-to-point commuter bus service between park-and-ride lots in Fairfax and Prince William Counties and regional employment centers such as Washington, Tysons, the Pentagon and the Dulles area
 - Operations to begin in 2021 with new routes to be phased in through 2040
 - New routes to be operated by Fairfax Connector and PRTC OmniRide
 - New park and ride lots to include 4,000 new parking spaces by 2021
 - Transportation Demand Management (TDM) strategies, including promotion of transit, carpooling, vanpooling, telework and other alternatives



Expanded Park and Ride Lots and Transit Service



Project Status and Key Milestones

Activities	Dates
Revised Environmental Assessment	January 14, 2016
Consideration of Alternative Technical Concepts	March/April 2016
Final Environmental Document	April/May 2016
Public Hearing on Final Draft RFP & HOV-2 to HOV-3	May 23, 24 and 25, 2016
Final Request for Proposals (RFP)	June 2016
Selection of Developer	September 2016
Design Public Hearing	Early 2017
Construction Start	2017
Open to Traffic	Late 2020



Public Outreach and Communications

Transform 66: Inside and Outside the Beltway

- More than 300 outreach meetings with stakeholders to date
- Electronic notifications to stakeholder database of 5,000
- Received more than 3,000 emails
- Earned media and social media outreach
- Transform66.org project website nearly 40,000 visitors

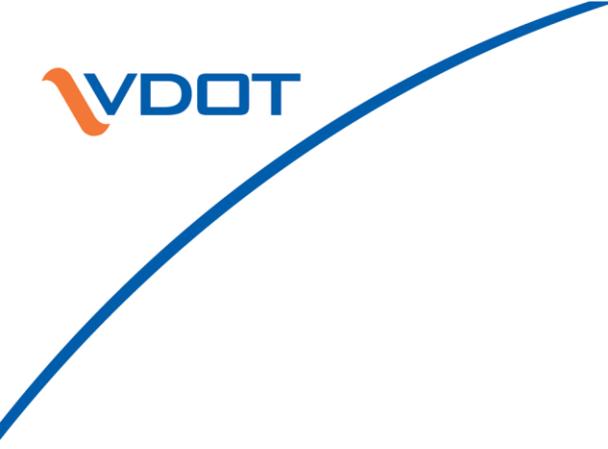
Public Hearing on Procurement and HOV-2 to HOV-3 Conversion May 23, 24 and 25, 2016 (6:30–8:30 p.m.)

May 23:
Oakton High School
2900 Sutton Road
Vienna, VA 22181

May 24:
**VDOT Northern Virginia
District Office**
4975 Alliance Drive
Fairfax, VA 22030

May 25:
**Piney Branch
Elementary School**
8301 Linton Hall Road
Bristow, VA 20136



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**Visit
Transform66.org**