



Northern Virginia Transportation Authority
The Authority for Transportation in Northern Virginia

TECHNICAL ADVISORY COMMITTEE

Wednesday, April 18, 2018, 7:00pm

**NVTA Office
3040 Williams Drive, Suite 200
Fairfax, Virginia 22031**

AGENDA

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

Action

- II. Approve Summary Notes of September 20, 2017 Meeting**
Recommended Action: Approval [with abstentions from those who were not present]
- III. Approve Summary Notes of February 21, 2018 Meeting**
Recommended Action: Approval [with abstentions from those who were not present]
- IV. CY2018 Meeting Schedule** Ms. Backmon, Executive Director
Recommended Action: Approval of calendar
- V. CY2018 Chair/Vice Chair Nominations** Ms. Backmon, Executive Director
Recommended Action: Approval of Chair/Vice Chair Nominees

Discussion/Information

- VI. FY2018-23 Six Year Program Update** Mr. Jasper, Principal,
Transportation Planning & Programming
- VII. NVTA Update** Ms. Backmon, Executive Director

Adjournment

- VIII. Adjourn**

**Next Meeting: May 16, 2018
7:00pm
NVTA Office**



Northern Virginia Transportation Authority
The Authority for Transportation in Northern Virginia

TECHNICAL ADVISORY COMMITTEE
Wednesday, September 20, 2017, 7:00pm
NVTA Office
3040 Williams Drive, Suite 200
Fairfax, Virginia 22031

MEETING SUMMARY

- I. Call to Order/Welcome** Chairman Boice
- Mr. Boice called the meeting to order at 7:01pm.
 - Attendees:
 - ✓ Members: Randy Boice; Pat Turner; Armand Ciccarelli; Meredith Judy; Shanjiang Zhu; Kathy Ichter.
 - ✓ NVTA Staff: Keith Jasper (Principal, Transportation Planning and Programming); Sree Nampoothiri (Transportation Planner); Camela Speer (Clerk).
 - ✓ Other: Noelle Dominguez (Fairfax County).

Action

- II. Approve Summary Notes of May 17, 2017 Meeting**
- Mr. Boice moved approval of the May 17, 2017 meeting summary; seconded by Ms. Turner. The motion carried unanimously with abstentions from those who were not present at the May meeting.

Discussion/Information

- III. TransAction: Public Comments** Mr. Jasper, Principal, Transportation Planning & Programming
- Mr. Jasper briefed the Technical Advisory Committee (TAC) on the public comments received for the Draft TransAction Plan. He noted several of the comments were supportive of projects or process and these comments were acknowledged. He reviewed the additional comments.
 - ✓ Several comments were received regarding the planning process, some requesting additional details that were not available in the planning process. It was noted that more details will be available in the final Technical Report. The Technical Report was discussed briefly, noting that while it will be made available, the Authority will not be asked to

officially adopt it. There was consensus that it is also unnecessary to have the Committee review and provide feedback on the report.

- ✓ In response to questions regarding multilingual access, Mr. Jasper mentioned that options are being considered to provide translation for the final TransAction Plan.
- ✓ In response to comments on the Draft TransAction Plan document, NVTA staff and the TransAction subcommittee are reviewing options to enhance the final draft.
- ✓ There were a number of roadway comments, most voicing strong opposition to the Bi-County Parkway and the proposed new river crossings. Additionally, there were several comments in support of the Hillsboro traffic calming project.
- ✓ Other project specific comments, only a few per project, were received and were a mixture of support and opposition.
- ✓ Several comments on the Route 28 Study were shared with the study team.
- ✓ The Town of Herndon requested adding two projects. It was noted that the projects were analyzed in early rounds of TransAction, but were not included in final list due to being filtered out in the process. The projects have been reinstated and do not require additional modeling work.
- ✓ Several jurisdictions requested clarifications of specific project descriptions and the TransAction subcommittee has provided editorial comments for clarity and consistency. These modifications and clarifications will be made to the Draft Project List and do not impact the technical analysis.
- ✓ Several comments were received in support of bicycle and pedestrian projects.
- Mr. Jasper noted that projects must be included in TransAction to be eligible to receive NVTA 70% funding. He added that inclusion does not commit the Authority to fund any project in the Plan. Mr. Jasper stated that the NVTA staff recommendation is to retain all projects in the Draft TransAction Project list. He explained that this provides project selection options to the Authority until the next update of TransAction. He acknowledged that there are many more projects in the Plan than can be funded.
- Mr. Jasper reviewed the Six Year Program process.
- Ms. Turner informed the Committee that Loudoun County is updating its comprehensive plan and much public comment has been received.
- Dr. Zhu inquired as to whether the public comments received for TransAction will be reflected in the Authority's funding process. Mr. Jasper responded that the Six Year Program will have its own extensive public comment period. He suggested that the comments received for TransAction are an indication of what could be expected in the Six Year Program, noting that jurisdictions may take these into consideration when choosing which projects to submit for funding.

- Mr. Jasper briefly reviewed the Six Year Program schedule and the proposed funding considerations.

IV. NVTA Update

Mr. Jasper, Principal, Transportation
Planning & Programming

- In response to Mr. Boice's question regarding the need for new TAC member appointments, Committee members were requested to provide recommendations for new TAC members. Mr. Jasper added that NVTA staff will contact existing members to determine skill sets of current members in an effort to identify what skills are needed in new members. He stated that NVTA staff would like to fill the vacancies as soon as possible.
- Mr. Jasper informed the Committee of upcoming Authority meetings and events.
 - ✓ The Authority meeting on October 12, 2017 will start early at 6:30pm.
 - ✓ The next Planning and Programming Committee meeting will be on October 4, 2017 at 10am.
 - ✓ There will be a Ribbon Cutting Ceremony for Route 28 on October 4, 2017 at 1pm.
 - ✓ The Authority's 15th Anniversary Celebration will be held on November 9, 2017, following a brief Authority business meeting at 6:30pm at the Sherwood Community Center in the City of Fairfax.
- Mr. Jasper stated that based on work flow, it is unlikely there will be a need for the TAC to meet prior to January 2018. He advised the Committee he will inform them of meeting changes as they are confirmed.

Adjournment

V. Adjourn

- Meeting adjourned at 7:53pm.



Northern Virginia Transportation Authority
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TECHNICAL ADVISORY COMMITTEE
Wednesday, February 21, 2018, 7:00pm
NVTA Office
3040 Williams Drive, Suite 200
Fairfax, Virginia 22031

MEETING SUMMARY

I. Call to Order/Welcome Pat Turner

- Ms. Turner called the meeting to order at 7:10 pm.
- Attendees:
 - ✓ Members: Pat Turner; Armand Ciccarelli; Meredith Judy; Shanjiang Zhu.
 - ✓ NVTA Staff: Keith Jasper (Principal, Transportation Planning and Programming); Sree Nampoothiri (Transportation Planner).
 - ✓ Other: Kyeongsu Kim (Connectics Transportation Group); Douglas Stewart.

Action

II. Approve Summary Notes of September 20, 2017 Meeting

- Due to lack of quorum, this action was postponed.

III. CY2018 Meeting Schedule

- Members expressed interest to continue the current schedule of meeting on third Wednesdays at 7pm. Due to lack of quorum, this action was postponed.

IV. CY2018 Chair/Vice Chair Nominations

- Members were in agreement to continue with the current Chair, Mr. Boice. Members agreed to let NVTA staff know their interest to become Vice Chair. Due to lack of quorum, this action was postponed.

Discussion/Information

V. **FY2018-23 Six Year Program Update**

Mr. Jasper, Principal,
Transportation Planning & Programming

- Mr. Jasper gave a high level summary of the Six Year Program that included project selection criteria, applications received, funding requests, estimated available funding, ongoing activities, and public engagement process.
- Project selection criteria:
 - ✓ Project eligibility (inclusion in and project scope match with TransAction, primary project location in Northern Virginia)
 - ✓ Project ratings (TransAction-based 15 performance measures)
 - ✓ Congestion Reduction Relative to Cost (CRRC) Ratio
 - ✓ Qualitative considerations (modal/geographic balance, past performance, funding leverage, etc.), and,
 - ✓ Public comment
- NVTA received 71 project applications and 62 candidate projects remain under consideration
 - ✓ 8 applications eliminated since they received I-66 Outside the Beltway Concessionaire payment
 - ✓ 1 application determined to be ineligible due to its location outside Northern Virginia
- The projects are truly multimodal as most projects feature at least one supporting modal component in addition to the main mode it serves.
- There are 17 projects inside the beltway and 44 projects outside the beltway. One WMATA project spans both.
- Construction funding request dominates with 66% of the total request of more than 2.5 billion.
- There are several “mega-projects” that requested more than 100 million each.
- The estimated available funding is between \$1.1B and \$1.5B depending on how the General Assembly decides on WMATA funding.
- Currently NVTA staff is working with applicants for clarifications, conducting modeling/analytical work, and tabulating the results for public engagement.
- Public engagement will include
 - ✓ March 8, 2018: Authority approval of Public Hearing date
 - ✓ April 12, 2018: Authority release of draft Six Year Program
 - ✓ April 13, 2018: Commencement of public comment period
 - ✓ May 10, 2018: Open House and Public Hearing at NVTA
 - ✓ May 20, 2018: End of public comment period.
- Mr. Jasper shared the project list and a map that included all 62 candidate projects and funding request details.

- In response to Dr. Zhu’s question on the commitment of funding for continuation projects, Mr. Jasper replied that there is no commitment but there is a reasonable expectation.
- In response to Ms. Turner’s question on the various symbols, Mr. Jasper explained that the first symbol represents the primary modal component and the rest represent supporting components.
- Ms. Turner further inquired if information on the fund request per modal component is available and Mr. Jasper answered in the negative. He added that this information is difficult to estimate.
- Ms. Turner commented that the BRT project total cost looks very high.
- Mr. Jasper informed the Committee that the next couple of TAC meetings will receive most of the analysis results for discussion and feedback. Ms. Turner suggested to keep them concise and provided in advance for better understanding.

VI. NVTA Update

Mr. Jasper, Principal,
Transportation Planning & Programming

- Mr. Jasper informed the Committee of upcoming Authority meetings and events.
 - ✓ The Authority meeting on March 8, 2018, will start at 7:00pm. The main focus is expected to be the WMATA bills at the General Assembly and their impact on NVTA revenue. The 2017 Annual Report will also be released at the meeting.
 - ✓ The Third Annual Northern Virginia Transportation Roundtable hosted by NVTA is on March 14, 2018. The topic is “Self-Driving Vehicles: Utopia or Dystopia?”

VII. TAC Vacancies

Mr. Nampoothiri,
Transportation Planner

- Mr. Nampoothiri informed that currently there are four vacancies at the Committee due to resignation of members. Two of these vacancies are to be filled by the Commonwealth and two by the Authority. NVTA staff has received several recommendations and will share with the Authority and Commonwealth for consideration.

Adjournment

VIII. Adjourn

- Meeting adjourned at 8:30pm.



Northern Virginia Transportation Authority
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TECHNICAL ADVISORY COMMITTEE
Wednesday, February 21, 2018, 7:00pm
NVTA Office
3040 Williams Drive, Suite 200
Fairfax, Virginia 22031

DRAFT CY2018 MEETING SCHEDULE

Meetings are on the third Wednesday of each month at the NVTA offices

February 21, 2018; 7:00 PM

March 21, 2018; 7:00 PM

April 18, 2018; 7:00 PM

May 16, 2018; 7:00 PM

June 20, 2018; 7:00 PM

July 18, 2018; 7:00 PM

August: NO MEETING

September 19, 2018; 7:00 PM

October 17, 2018; 7:00 PM

November 21, 2018; 7:00 PM

December 19, 2018; 7:00 PM

Northern Virginia Transportation Authority
 FY 2018-23 Six Year Program Candidate Project List

DRAFT 04/13/2018

Project ID#	Jurisdiction/Agency	Project	Local Priority	TransAction ID#	Modal Components	Phases	Request	Total Cost
2018-001-0	Arlington County	ART Operations and Maintenance Facilities	1	123		Des, ROW, CN, CapAsset	\$ 55,459,000	\$ 98,487,000
2018-002-1	Arlington County	Ballston-MU Metrorail Station West Entrance	2	63		Des, ROW, CN, CapAsset	\$ 72,316,000	\$ 130,073,000
2018-003-0	Arlington County	Crystal City Metrorail Station East Entrance and Intermodal Connections	3	89		CN	\$ 87,000,000	\$ 90,140,000
2018-004-0	Arlington County	Pentagon City Multimodal Connections and Transitway Extension	4	117		Des, CN	\$ 28,850,000	\$ 46,665,000
2018-005-0	Arlington County	Intelligent Transportation System Improvements	5	104		CN	\$ 10,000,000	\$ 10,000,000
Arlington County Sub Total							\$ 253,625,000	\$ 375,365,000
2018-006-1	Fairfax County	Route 1 Widening (Mount Vernon Memorial Highway to Napper Road)	1	214		Des, ROW, CN	\$ 127,000,000	\$ 215,000,000
2018-007-0	Fairfax County	Richmond Highway Bus Rapid Transit - Phases I & II	2	39		Des, ROW, CN	\$ 250,000,000	\$ 544,800,000
2018-008-0	Fairfax County	Soapstone Drive Extension: Extend Soapstone Drive over Route 267 (Dulles Toll Road) to Sunset Hills Road	3	7		ROW, CN	\$ 132,060,000	\$ 169,240,000
2018-009-1	Fairfax County	Frontier Drive Extension and Intersection Improvements	4	84		ROW, CN	\$ 79,500,000	\$ 116,070,000
2018-010-2	Fairfax County	Route 28 Widening: Route 29 to Prince William County Line	5	30		CN	\$ 38,270,000	\$ 91,100,000
2018-011-0	Fairfax County	Braddock Road Intersection Improvements: Guinea Road to Ravensworth Road	6	336		Des, ROW, CN	\$ 52,400,000	\$ 69,800,000
2018-012-0	Fairfax County	Richmond Highway (Route 1)/CSX Underpass Widening	7	282		CN	\$ 12,000,000	\$ 56,000,000
2018-013-0	Fairfax County	Seven Corners Ring Road Improvements Phase 1 A, Segment A	8	18		Des	\$ 5,500,000	\$ 75,000,000
2018-014-1	Fairfax County	Rolling Road Widening: Hunter Village Drive to Old Keene Mill Road	9	54		ROW, CN	\$ 11,111,000	\$ 51,600,000
2018-015-0	Fairfax County	Route 29 Widening Project, Phase II (Union Mill Road to Buckley's Gate Drive)	10	217		ROW	\$ 7,600,000	\$ 67,000,000
2018-016-2	Fairfax County	Fairfax County Parkway Widening from Ox Road to Lee Highway includes a grade separated interchange at the intersection of Popes Head Road	11	57		ROW, CN	\$ 67,000,000	\$ 191,300,000
2018-017-0	Fairfax County	Rock Hill Road Bridge	12	19		Des, ROW, CN	\$ 100,000,000	\$ 100,000,000
2018-018-0	Fairfax County	Dulles Toll Road - Town Center Parkway Underpass	13	17		Des	\$ 17,000,000	\$ 168,980,000
2018-019-0	Fairfax County	Route 28 Widening (Northbound from Route 50 to McLearn Road)	14	26		CN	\$ 19,000,000	\$ 21,068,000
2018-020-0	Fairfax County	Shirley Gate Road Extension: Braddock Road to Fairfax County Parkway	15	58		ROW, CN	\$ 42,000,000	\$ 50,980,000
Fairfax County Sub Total							\$ 960,441,000	\$ 1,987,938,000
2018-021-0	Loudoun County	Route 15 Bypass Widening: Battlefield Parkway to Montresor Road	Top 3	191		ROW, CN	\$ 54,000,000	\$ 81,163,683
2018-022-0	Loudoun County	Northstar Boulevard - Shreveport Drive to Tall Cedars Parkway	Top 3	119, 188		ROW, CN	\$ 89,805,000	\$ 135,180,000
2018-023-0	Loudoun County	Extend Shellhorn Road: Loudoun County Parkway (Route 607) to Randolph Drive (Route 1072)	Top 3	184		ROW, Utility	\$ 16,000,000	\$ 126,750,000
2018-024-0	Loudoun County	Route 28 Northbound Widening –between the Dulles Toll Road and Sterling Boulevard		155, 159		CN	\$ 20,000,000	\$ 23,508,200
2018-025-0	Loudoun County	Evergreen Mills Road Widening: Loudoun County Parkway to Northstar Boulevard		179		Des, CN, Utility	\$ 46,092,000	\$ 68,885,000

Project ID#	Jurisdiction/Agency	Project	Local Priority	TransAction ID#	Modal Components	Phases	Request	Total Cost
2018-026-0	Loudoun County	Prentice Drive Extension: Lockridge Road (Route 789) to Shellhorn Road (Route 643)		150	   	ROW, CN, Utility	\$ 76,230,000	\$ 102,325,000
2018-027-0	Loudoun County	Route 9 Traffic Calming		327	  	Des, ROW, CN, Utility	\$ 12,112,000	\$ 22,206,000
2018-028-0	Loudoun County	Dulles West Boulevard Widening: Loudoun County Parkway to Northstar Boulevard		160	   	Des, ROW, CN, Utility	\$ 47,800,000	\$ 59,314,000
2018-029-0	Loudoun County	Evergreen Mills Road Intersection Realignments – Watson Road and Reservoir Road		180		Des, ROW, CN, Utility	\$ 14,000,000	\$ 14,000,000
Loudoun County Sub Total							\$ 376,039,000	\$ 633,331,883
2018-030-3	Prince William County	RT28 corridor improvements (Fitzwater Dr to Pennsylvania Ave)	1	300	  	CN	\$ 15,000,000	\$ 70,900,000
2018-031-1	Prince William County	Route 28 Corridor Feasibility Study - Environmental Impact Statement (City of Manassas to Fairfax County)	2	350	  	Other - EIS	\$ 3,500,000	\$ 5,100,000
2018-032-1	Prince William County	Construct Route 28 Corridor Roadway Improvements	3	350	  	Des, ROW, CN	\$ 145,000,000	\$ 228,000,000
2018-033-0	Prince William County	Construct Interchange at Route 234 and Sudley Manor Drive	4	222	  	Des, ROW, CN	\$ 80,600,000	\$ 80,600,000
2018-034-0	Prince William County	Construct Interchange at Route 234 and Brentsville Road	5	283	  	Des, ROW, CN	\$ 54,900,000	\$ 54,900,000
2018-035-0	Prince William County	Construct Interchange at Prince William Parkway and University Boulevard	6	324	  	Des, ROW, CN	\$ 24,200,000	\$ 24,200,000
2018-036-0	Prince William County	Summit School Rd Extension and Telegraph Rd Widening	7	270, 271	   	Des, ROW, CN	\$ 38,700,000	\$ 38,700,000
2018-037-0	Prince William County	Construct University Boulevard (Progress Court to Devlin Road) – Phase I	8	235	   	Des, ROW, CN	\$ 28,500,000	\$ 28,500,000
2018-038-0	Prince William County	Devlin Road Widening: Wellington Road to Linton Hall Road	9	242	  	Des, ROW, CN	\$ 26,050,000	\$ 26,050,000
2018-039-0	Prince William County	Construct Interchange at Prince William Parkway and Clover Hill Road	10	284	  	Des, ROW, CN	\$ 12,900,000	\$ 12,900,000
Prince William County Sub Total							\$ 429,350,000	\$ 569,850,000
2018-040-1	City of Alexandria	West End Transitway: Northern Segment (Phase 1)	1	42	 	ROW, CN, CapAsset, Other-Admin	\$ 60,750,000	\$ 128,151,000
2018-041-0	City of Alexandria	Alexandria ITS Projects	2	113	 	Des, CN	\$ 1,195,491	\$ 1,195,491
2018-042-1	City of Alexandria	Alexandria Bus Network ITS	3	194	 	CapAsset, Other	\$ 150,000	\$ 150,000
2018-043-0	City of Alexandria	DASH Transit Service Enhancements and Expansion	4	85		Des, CN, CapAsset, Other-Contin	\$ 11,933,161	\$ 23,068,161
2018-044-0	City of Alexandria	Alexandria Bike and Pedestrian Trails and Reconstruction	5	90	  	Des, ROW	\$ 2,200,000	\$ 11,630,000
2018-045-2	City of Alexandria	Alexandria Duke St Transitway	6	41	   	Des	\$ 12,000,000	\$ 115,050,000
City of Alexandria Sub Total							\$ 88,228,652	\$ 279,244,652
2018-046-0	City of Fairfax	Jermantown Road Corridor Improvements Project	1	136	   	Des, ROW, CN	\$ 26,000,000	\$ 26,200,000
2018-047-0	City of Fairfax	Intersection Improvements at Eaton Place/Chain Bridge Road	2	137, 140	  	Des, ROW, CN	\$ 10,750,000	\$ 10,850,000
2018-048-0	City of Fairfax	Old Lee Highway Multimodal Improvements Phase 1	3	138	  	ROW, CN	\$ 5,000,000	\$ 14,000,000
2018-049-0	City of Fairfax	Roadway Network Northfax West	4	140	  	Des, ROW, CN	\$ 2,500,000	\$ 5,000,000
2018-050-0	City of Fairfax	City of Fairfax Bike Share Implementation	5	139, 198		CN	\$ 1,159,000	\$ 1,159,000
City of Fairfax Sub Total							\$ 45,409,000	\$ 57,209,000

Project ID#	Jurisdiction/Agency	Project	Local Priority	TransAction ID#	Modal Components	Phases	Request	Total Cost
2018-051-0	City of Falls Church	West Falls Church & Joint Campus Revitalization District Multimodal Transportation Project	1	334, 66		Des, ROW, CN, Other-Contin	\$ 15,700,000	\$ 15,700,000
2018-052-0	City of Falls Church	North Washington Street Multimodal Transportation Project	2	334, 66		Des, ROW, CN, Other-Contin	\$ 14,500,000	\$ 14,500,000
City of Falls Church Sub Total							\$ 30,200,000	\$ 30,200,000
2018-053-1	Town of Dumfries	Widen Route 1 (Fralely Blvd) to six lanes between Brady's Hill Rd and Dumfries Rd (RT234)	1	92		ROW, CN	\$ 116,554,000	\$ 123,954,000
Town of Dumfries Sub Total							\$ 116,554,000	\$ 123,954,000
2018-054-2	Town of Leesburg	Construct Interchange at Route 7 and Battlefield Parkway	1	193		CN	\$ 25,000,000	\$ 58,000,000
2018-055-2	Town of Leesburg	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	2	131		Des, ROW, CN	\$ 105,700,000	\$ 112,000,000
2018-056-0	Town of Leesburg	Construct Interchange at Route 15 Bypass and Battlefield Parkway	3	96		Design	\$ 2,000,000	\$ 60,000,000
Town of Leesburg Sub Total							\$ 132,700,000	\$ 230,000,000
2018-057-0	Town of Vienna	Mill St NE Parking Garage	1	199		CapAsset	\$ 2,300,000	\$ 4,600,000
Town of Vienna Sub Total							\$ 2,300,000	\$ 4,600,000
2018-058-1	VRE	VRE Crystal City Station Improvements	1	298		Des	\$ 4,000,000	\$ 41,810,000
2018-059-0	VRE	VRE Woodbridge Station and Occoquan Third Track Improvements	3	93, 301		Des	\$ 27,500,000	\$ 230,000,000
VRE Sub Total							\$ 31,500,000	\$ 271,810,000
2018-062-0	NOVA Parks	Falls Church Enhanced Regional Bike Routes (W&OD)	1	134		Des, CN	\$ 3,793,209	\$ 3,793,209
NOVA Parks Sub Total							\$ 3,793,209	\$ 3,793,209
60	TOTAL						\$ 2,470,139,861	\$ 4,567,295,744

***Symbol definition:**

- New or improved pedestrian path/trail
- New or improved bicycle lane/path
- New or improved bus/BRT facility
- Improvement/Access to Metrorail/VRE Commuter Rail
- Access to Park-and-Ride facility
- Transportation technology
- New or improved intersection/interchange
- New roadway capacity and/or alignment

The first symbol reflects the primary modal component, other symbols denote additional modal components, as identified in the project application.

Northern Virginia Transportation Authority
 FY 2018-23 Six Year Program Candidate Projects: Summary of Quantitative and Qualitative Evaluations

DRAFT 04/13/2018

Project ID#	Jurisdiction / Agency	Project	Fund request	Cumulative request	Phases for which funds are requested	Phases for which there is still a funding gap	Past performance (% reimbursed by FY18 Q2)		External funds	Local priority	First fiscal year of expected drawdown	Year of opening	Impact on Metrorail / VRE core / system improvements	Primary and supporting modal components	Other	TransAction project rating (HB 599)	TransAction project rating rank (HB 599)	CRRC (Reduction in annual person hours of delay / Total project cost in \$1000's)	CRRC rank
							Continuation projects	Jurisdictional level											
2018-041-0	City of Alexandria	Alexandria ITS Projects	\$ 1,195,491	\$ 1,195,491	Des, CN									📶 🚶		65.00	49	5520.61	1
2018-042-1	City of Alexandria	Alexandria Bus Network ITS	\$ 150,000	\$ 1,345,491	CapAsset, Other									📶 🚶		64.62	51	5144.53	2
2018-005-0	Arlington County	Intelligent Transportation System Improvements	\$ 10,000,000	\$ 11,345,491	CN									📶 🚶 🚲 🚲		69.39	23	822.22	3
2018-019-0	Fairfax County	Route 28 Widening (Northbound from Route 50 to McLearn Road)	\$ 19,000,000	\$ 30,345,491	CN									🚶		79.18	5	466.23	4
2018-024-0	Loudoun County	Route 28 Northbound Widening –between the Dulles Toll Road and Sterling Boulevard	\$ 20,000,000	\$ 50,345,491	CN									🚶		90.00	1	216.70	5
2018-046-0	City of Fairfax	Jermantown Road Corridor Improvements Project	\$ 26,000,000	\$ 76,345,491	Des, ROW, CN									🚶 🚶 🚶 🚶		65.80	46	108.75	6
2018-021-0	Loudoun County	Route 15 Bypass Widening: Battlefield Parkway to Montresor Road	\$ 54,000,000	\$ 130,345,491	ROW, CN									🚶 🚶 🚶 🚶		80.77	4	106.63	7
2018-015-0	Fairfax County	Route 29 Widening Project, Phase II (Union Mill Road to Buckley's Gate Drive)	\$ 7,600,000	\$ 137,945,491	ROW									🚶 🚶 🚶 🚶		68.92	24	97.51	8
2018-023-0	Loudoun County	Extend Shellhorn Road: Loudoun County Parkway (Route 607) to Randolph Drive (Route 1072)	\$ 16,000,000	\$ 153,945,491	ROW, Utility									🚶 🚶 🚶 🚶		85.13	3	80.15	9
2018-014-1	Fairfax County	Rolling Road Widening: Hunter Village Drive to Old Keene Mill Road	\$ 11,111,000	\$ 165,056,491	ROW, CN									🚶 🚶 🚶 🚶		65.99	44	79.73	10
2018-010-2	Fairfax County	Route 28 Widening: Route 29 to Prince William County Line	\$ 38,270,000	\$ 203,326,491	CN	CN								🚶 🚶 🚶 🚶	See Note A	68.40	25	77.88	11
2018-016-2	Fairfax County	Fairfax County Parkway Widening from Ox Road to Lee Highway includes a grade separated interchange at the intersection of Popes Head Road	\$ 67,000,000	\$ 270,326,491	ROW, CN	CN								🚶 🚶 🚶 🚶		76.40	6	73.05	12
2018-039-0	Prince William County	Construct Interchange at Prince William Parkway and Clover Hill Road	\$ 12,900,000	\$ 283,226,491	Des, ROW, CN									🚶 🚶 🚶 🚶	See Note B	68.35	26	72.84	13
2018-030-3	Prince William County	RT28 corridor improvements (Fitzwater Dr to Pennsylvania Ave)	\$ 15,000,000	\$ 298,226,491	CN									🚶 🚶 🚶 🚶		70.62	18	71.22	14
2018-017-0	Fairfax County	Rock Hill Road Bridge	\$ 100,000,000	\$ 398,226,491	Des, ROW, CN									🚶 🚶 🚶 🚶	See Note C	75.22	7	67.25	15
2018-022-0	Loudoun County	Northstar Boulevard - Shreveport Drive to Tall Cedars Parkway	\$ 89,805,000	\$ 488,031,491	ROW, CN									🚶 🚶 🚶 🚶		69.54	22	65.39	16
2018-053-1	Town of Dumfries	Widen Route 1 (Fraleigh Blvd) to six lanes between Brady's Hill Rd and Dumfries Rd (RT234)	\$ 116,554,000	\$ 604,585,491	ROW, CN									🚶 🚶 🚶 🚶		72.84	10	56.15	17
2018-026-0	Loudoun County	Prentice Drive Extension: Lockridge Road (Route 789) to Shellhorn Road (Route 643)	\$ 76,230,000	\$ 680,815,491	ROW, CN, Utility									🚶 🚶 🚶 🚶		72.95	9	46.19	18
2018-062-0	NOVA Parks	Falls Church Enhanced Regional Bike Routes (W&OD)	\$ 3,793,209	\$ 684,608,700	Des, CN									🚶 🚶		50.00	60	34.18	19
2018-043-0	City of Alexandria	DASH Transit Service Enhancements and Expansion	\$ 11,933,161	\$ 696,541,861	Des, CN, CapAsset, Other-Contin									🚶		66.53	39	33.70	20
2018-054-2	Town of Leesburg	Construct Interchange at Route 7 and Battlefield Parkway	\$ 25,000,000	\$ 721,541,861	CN									🚶 🚶 🚶 🚶		71.12	16	30.70	21
2018-028-0	Loudoun County	Dulles West Boulevard Widening: Loudoun County Parkway to Northstar Boulevard	\$ 47,800,000	\$ 769,341,861	Des, ROW, CN, Utility									🚶 🚶 🚶 🚶		72.51	13	30.01	22
2018-007-0	Fairfax County	Richmond Highway Bus Rapid Transit - Phases I & II	\$ 250,000,000	\$ 1,019,341,861	Des, ROW, CN	ROW, CN, CapAsset								🚶 🚶 🚶 🚶	See Note D	85.86	2	28.58	23
2018-006-1	Fairfax County	Route 1 Widening (Mount Vernon Memorial Highway to Napper Road)	\$ 127,000,000	\$ 1,146,341,861	Des, ROW, CN	ROW, CN								🚶 🚶 🚶 🚶		75.14	8	26.48	24
2018-040-1	City of Alexandria	West End Transitway: Northern Segment (Phase 1)	\$ 60,750,000	\$ 1,207,091,861	ROW, CN, CapAsset, Other-Admin	ROW, CN								🚶 🚶 🚶 🚶		68.16	27	23.73	25
2018-020-0	Fairfax County	Shirley Gate Road Extension: Braddock Road to Fairfax County Parkway	\$ 42,000,000	\$ 1,249,091,861	ROW, CN	CN								🚶 🚶 🚶 🚶	See Note E	67.38	33	21.62	26
2018-031-1	Prince William County	Route 28 Corridor Feasibility Study - Environmental Impact Statement (City of Manassas to Fairfax County)	\$ 3,500,000	\$ 1,252,591,861	Other - EIS									🚶 🚶 🚶 🚶		67.59	30	21.13	27
2018-032-1	Prince William County	Construct Route 28 Corridor Roadway Improvements	\$ 145,000,000	\$ 1,397,591,861	Des, ROW, CN	CN								🚶 🚶 🚶 🚶		67.59	31	21.13	28
2018-047-0	City of Fairfax	Intersection Improvements at Eaton Place/Chain Bridge Road	\$ 10,750,000	\$ 1,408,341,861	Des, ROW, CN									🚶 🚶 🚶 🚶	See Note F	65.01	48	19.76	29
2018-035-0	Prince William County	Construct Interchange at Prince William Parkway and University Blvd	\$ 24,200,000	\$ 1,432,541,861	Des, ROW, CN									🚶 🚶 🚶 🚶	See Note B	72.69	11	17.57	30
2018-045-2	City of Alexandria	Alexandria Duke St Transitway	\$ 12,000,000	\$ 1,444,541,861	Des	ROW, CN, CapAsset								🚶 🚶 🚶 🚶		71.33	15	17.07	31
2018-052-0	City of Falls Church	North Washington Street Multimodal Transportation Project	\$ 14,500,000	\$ 1,459,041,861	Des, ROW, CN, Other-Contin									🚶 🚶 🚶 🚶		50.69	59	16.93	32
2018-027-0	Loudoun County	Route 9 Traffic Calming	\$ 12,112,000	\$ 1,471,153,861	Des, ROW, CN, Utility									🚶 🚶 🚶 🚶	See Note G	53.58	55	16.01	33
2018-012-0	Fairfax County	Richmond Highway (Route 1)/CSX Underpass Widening	\$ 12,000,000	\$ 1,483,153,861	CN									🚶 🚶 🚶 🚶		70.75	17	13.87	34
2018-057-0	Town of Vienna	Mill St NE Parking Garage	\$ 2,300,000	\$ 1,485,453,861	CapAsset									🚶 🚶		52.73	56	13.85	35
2018-034-0	Prince William County	Construct Interchange at Route 234 and Brentsville Road	\$ 54,900,000	\$ 1,540,353,861	Des, ROW, CN									🚶 🚶 🚶 🚶	See Note B	67.96	29	13.77	36
2018-050-0	City of Fairfax	City of Fairfax Bike Share Implementation	\$ 1,159,000	\$ 1,541,512,861	CN									🚶		66.44	40	12.56	37
2018-049-0	City of Fairfax	Roadway Network Northfax West	\$ 2,500,000	\$ 1,544,012,861	Des, ROW, CN	Des, ROW, CN								🚶 🚶 🚶 🚶	See Note F	66.91	36	10.78	38
2018-056-0	Town of Leesburg	Construct Interchange at Route 15 Bypass and Battlefield Parkway	\$ 2,000,000	\$ 1,546,012,861	Design	Des, ROW, CN								🚶 🚶 🚶 🚶		72.54	12	10.58	39
2018-004-0	Arlington County	Pentagon City Multimodal Connections and Transitway Extension	\$ 28,850,000	\$ 1,574,862,861	Des, CN	ROW, CN								🚶 🚶 🚶 🚶		66.01	43	10.34	40
2018-008-0	Fairfax County	Soapstone Drive Extension: Extend Soapstone Drive over Route 267 (DTR) to Sunset Hills Road	\$ 132,060,000	\$ 1,706,922,861	ROW, CN	ROW, CN								🚶 🚶 🚶 🚶		67.47	32	9.25	41
2018-009-1	Fairfax County	Frontier Drive Extension and Intersection Improvements	\$ 79,500,000	\$ 1,786,422,861	ROW, CN	CN								🚶 🚶 🚶 🚶		69.80	21	8.43	42
2018-058-1	VRE	VRE Crystal City Station Improvements	\$ 4,000,000	\$ 1,790,422,861	Des	ROW, CN								🚶 🚶		63.91	53	6.92	43
2018-044-0	City of Alexandria	Alexandria Bike and Pedestrian Trails and Reconstruction	\$ 2,200,000	\$ 1,792,622,861	Des, ROW	ROW, CN, Other								🚶 🚶 🚶 🚶		66.90	37	6.88	44
2018-029-0	Loudoun County	Evergreen Mills Road Intersection Realignments – Watson Road and Reservoir Road	\$ 14,000,000	\$ 1,806,622,861	Des, ROW, CN, Utility									🚶		68.03	28	6.02	45

Project ID#	Jurisdiction / Agency	Project	Fund request	Cumulative request	Phases for which funds are requested	Phases for which there is still a funding gap	Past performance (% reimbursed by FY18 Q2)		External funds	Local priority	First fiscal year of expected drawdown	Year of opening	Impact on Metrorail / VRE core / system improvements	Primary and supporting modal components	Other	TransAction project rating (HB 599)	TransAction project rating rank (HB 599)	CRRC (Reduction in annual person hours of delay / Total project cost in \$1000's)	CRRC rank
							Continuation projects	Jurisdictional level											
2018-002-1	Arlington County	Ballston-MU Metrorail Station West Entrance	\$ 72,316,000	\$ 1,878,938,861	Des, ROW, CN, CapAsset	CN								🚇		57.26	54	5.60	46
2018-018-0	Fairfax County	Dulles Toll Road - Town Center Parkway Underpass	\$ 17,000,000	\$ 1,895,938,861	Des	ROW, CN								🚶 🚲 🚗		72.40	14	5.35	47
2018-051-0	City of Falls Church	West Falls Church & Joint Campus Revitalization District Multimodal Transportation Project	\$ 15,700,000	\$ 1,911,638,861	Des, ROW, CN, Other-Contin									🚶 🚲 🚗 🚘	See Note H	52.57	57	5.01	48
2018-037-0	Prince William County	Construct University Boulevard (Progress Court to Devlin Road) – Phase I	\$ 28,500,000	\$ 1,940,138,861	Des, ROW, CN									🚶 🚲 🚗		66.10	42	4.82	49
2018-038-0	Prince William County	Devlin Road Widening: Wellington Road to Linton Hall Road	\$ 26,050,000	\$ 1,966,188,861	Des, ROW, CN									🚶 🚲 🚗		66.93	35	4.04	50
2018-036-0	Prince William County	Summit School Rd Extension and Telegraph Rd Widening	\$ 38,700,000	\$ 2,004,888,861	Des, ROW, CN									🚶 🚲 🚗	See Note I	69.91	20	3.03	51
2018-011-0	Fairfax County	Braddock Road Intersection Improvements: Guinea Road to Ravensworth Road	\$ 52,400,000	\$ 2,057,288,861	Des, ROW, CN	CN								🚶 🚲 🚗		65.56	47	3.01	52
2018-025-0	Loudoun County	Evergreen Mills Road Widening: Loudoun County Parkway to Northstar Boulevard	\$ 46,092,000	\$ 2,103,380,861	Des, CN, Utility									🚶 🚲 🚗		66.32	41	2.98	53
2018-033-0	Prince William County	Construct Interchange at Route 234 and Sudley Manor Drive	\$ 80,600,000	\$ 2,183,980,861	Des, ROW, CN									🚶 🚲 🚗	See Note B	70.19	19	2.84	54
2018-048-0	City of Fairfax	Old Lee Highway Multimodal Improvements Phase 1	\$ 5,000,000	\$ 2,188,980,861	Des, ROW, CN	CN								🚶 🚲 🚗		67.11	34	1.83	55
2018-001-0	Arlington County	ART Operations and Maintenance Facilities	\$ 55,459,000	\$ 2,244,439,861	Des, ROW, CN, CapAsset	Des, CN, CapAsset								🚘	See Note J	65.96	45	1.44	56
2018-055-2	Town of Leesburg	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	\$ 105,700,000	\$ 2,350,139,861	Des, ROW, CN									🚶 🚲 🚗		64.73	50	1.41	57
2018-003-0	Arlington County	Crystal City Metrorail Station East Entrance and Intermodal Connections	\$ 87,000,000	\$ 2,437,139,861	Des, ROW, CN	CN								🚇 🚶		51.94	58	1.13	58
2018-059-0	VRE	VRE Woodbridge Station and Occoquan Third Track Improvements	\$ 27,500,000	\$ 2,464,639,861	Des, ROW, CN	CN								🚇		64.19	52	1.03	59
2018-013-0	Fairfax County	Seven Corners Ring Road Improvements Phase 1 A, Segment A	\$ 5,500,000	\$ 2,470,139,861	Des, ROW, CN	ROW, CN								🚶 🚲 🚗		66.66	38	0.19	60

Notes

Anticipated next three SYP updates:
 12 / 2019 FY2020
 12 / 2021 FY2022
 12 / 2023 FY2024

- A** SYP application is for widening from 4 to 8 lanes while the project in TransAction is for widening to 6 lanes. Fairfax County will bear the cost of widening from 6 to 8 lanes. The total cost of widening to 6 lanes has been derived from detailed cost calculations provided by the County.
- B** The project is part of \$400,000 VDOT STARTS study for innovative interchange design
- C** There is no supporting resolution from Loudoun County though the project is partially in Loudoun County
- D** Phase II cannot be implemented without completing project 2018-006-1 Route 1 Widening. Phase I is expected to be open by 2026 while Phase II by 2028.
- E** Project cannot be completed before project 2018-016-2 Fairfax County Parkway Widening and Popes Head Interchange
- F** Eaton/Chain Bridge Road intersection project and the Roadway Network Northfax West project are close to each other and function together
- G** There will be overall project cost & time savings if SYP funds allocated
- H** See the attached letter from the City of Falls Church
- I** VDOT has recently budgeted a total of \$350,000 using pre-scoping funds towards a preliminary study for this project.
- J** Total project cost could be reduced from \$98,487,000 to potentially as low as \$60,000,000 based on refinements to the facility design. The CRRC shown here is based on the higher original cost.

	% drawn down of expected drawdown	% drawn down of expected drawdown	See definition below				
	>66.67%	>66.67%	High	Top 3	FY18-20	FY18-20	Yes
	33.33-66.67%	33.33-66.67%	Medium	Next 3	FY21-23	FY21-23	
	<33.33%	<33.33%	Low	All others	>FY23	>FY23	
	N/A	N/A					None

External Funds

- High Non-NVTA>50% or >10M
- Medium Non-NVTA<50% or <10M
- Low No external funds

Modal Components

- New or improved pedestrian path/trail 🚶
- New or improved bicycle lane/path 🚲
- New or improved bus/BRT facility 🚘
- Improvement/Access to Metrorail/VRE Commuter Rail 🚇
- Access to Park-and-Ride facility 🚗
- Transportation technology 📶
- New or improved intersection/interchange 🚦
- New roadway capacity and/or alignment 🛣️

The first symbol reflects the primary modal component, other symbols denote additional modal components, as identified in the project application



CITY OF FALLS CHURCH

March 22, 2018

Ms. Monica Backmon
Northern Virginia Transportation Authority
3040 Williams Drive, Suite 200
Fairfax, Virginia 22031

Dear Ms. Backmon:

This letter provides additional, qualitative information about the City's West Falls Church and Joint Campus Revitalization District Multimodal Transportation Project application for NVTA 70% funds. The City submits this additional qualitative information for consideration in developing the NVTA Six Year Program.

Connections to the Regional Transportation Network

The City's West Falls Church and Joint Campus Revitalization District Multimodal Transportation Project is located at the intersection of jurisdictional, agency, and multimodal lines. This project is necessary to connect and realize the full potential of multiple ongoing and planned regional (and state) transportation investments. The following bullets list the projects in the immediate area and how they will be made more effective by this West Falls Church project.

- **Transform I-66** The twin goals of the Transform I-66 Project are to move more people and to increase connectivity. As part of Transform I-66, a direct connection is being provided between eastbound I-66 and the West Falls Church Metro Station. The City's project will accommodate the new connection by improving vehicle flow in the vicinity.
- **The Route 7 Bus Rapid Transit (BRT) Project** runs along Route 7 from Tysons in Fairfax County to the Mark Center in Alexandria. This West Falls Church project will support realignment of the street network in the vicinity of the West Falls Church Metro to support a direct connection between the West Falls Church Metro Station and Route 7 BRT project.
- **The W&OD Trail** is a major regional biking corridor and passes approximately a ¼ mile distance from this project area. This project will enable increased usage of the W&OD Trail, which will reduce auto dependence (a regionally adopted goal) and support investment in pedestrian and bicycle facilities (a major voice during the public engagement process of TransAction).

- **Capital Bikeshare** Falls Church is expanding the regional Capital Bikeshare System with stations at the West Falls Church Metrorail Station, George Mason High School, and nine other locations throughout the City. As you are aware, Capital Bikeshare is often used as a first mile/last mile connection to other regional transportation facilities, and this project will provide the infrastructure for those connections.

Coordinating Transportation Investments with Redevelopment

Recently initiated and potential future development activity is not fully captured in the Metropolitan Washington Council of Governments (MWCOC) Cooperative Forecasts. In particular, the following redevelopment activity is ongoing.

- **The West Falls Church Development Project** is an approximately 10 acre property slated for a minimum of 1.5 million square feet of new development at the intersection of West Broad Street and Haycock Road. Construction is expected to begin in 2021.
- **Founder's Row**, approximately a ¼ mile from the project area, is an approximately 4.5 acre property proposed for redevelopment with 58,356 square feet of retail/restaurant, 4,946 square feet of office and 394 residential units.
- **WMATA**, for the West Falls Church Metrorail Station property, submitted a Comprehensive Plan Amendment to Fairfax County. The property is approximately 24 acres and under the proposed amendment will consider 150,000 square feet of office, 50,000 square feet of retail, 300 multi-family residential units, and 200 residential townhomes.

According to VDOT data, existing average annual weekday traffic counts on Route 7 are 33,000 trips, and on Haycock Road are 11,000 trips. Based on acreage and typical development (land use) programs in the City, the West Falls Church Development is expected to generate a minimum of 13,500 daily trips. As noted above, this development program has not yet been incorporated into the MWCOC Cooperative Forecasts, and therefore, is not accounted for in the TransAction model. Recent regional studies funded through the MWCOC Transportation and Land Use Connection (TLC) program have suggested mode share goals of 50% non-automobile. The City's West Falls Church and Joint Campus Revitalization District Multimodal Transportation Project is a necessary step for reaching this mode share goal and could reduce automobile traffic in the vicinity by 6,750 daily trips.

To accommodate future development and reinvestment in regional activity centers such as the City of Falls Church, the region has recognized a need to invest in multimodal transportation options. These investments are also supported at the state level with documents like VTRANS, which recognize the need to invest in revitalization districts, again, like the City of Falls Church. Additionally, a recently completed TLC study funded by the MWCOC, recognized the need for investment in multimodal transportation options, including bicycle, pedestrian and transit connections, and a re-oriented grid of streets to accommodate better vehicle flow.

Project Priorities

As we noted during the application process, of our two submissions this is the City's number one priority.

The City looks forward to working with NVTA staff on the execution of this vital West Falls Church project in service to our city and the region.

Sincerely,

A handwritten signature in black ink, appearing to read "Wyatt Shields". The signature is written in a cursive, flowing style.

F. Wyatt Shields
City Manager

cc: City of Falls Church Council Members

Cindy L. Mester, Deputy City Manager

James B. Snyder, Director of Community Planning and Economic Development Services

Paul Stoddard, Director of Planning

Kerri Oddenino, Planner

FY2018-23 Six Year Program Candidate Projects: Congestion Reduction Relative to Cost (CRRC) Ratios

Reference #	Jurisdiction / Agency	Project	Fund request	Total project cost	CRRC (Reduction in annual person hours of delay / Total project cost in \$1000's)
2018-001-0	Arlington County	ART Operations and Maintenance Facilities	\$ 55,459,000	\$ 98,487,000	1.44
2018-002-1	Arlington County	Ballston-MU Metrorail Station West Entrance	\$ 72,316,000	\$ 130,073,000	5.60
2018-003-0	Arlington County	Crystal City Metrorail Station East Entrance and Intermodal Connections	\$ 87,000,000	\$ 90,140,000	1.13
2018-004-0	Arlington County	Pentagon City Multimodal Connections and Transitway Extension	\$ 28,850,000	\$ 46,665,000	10.34
2018-005-0	Arlington County	Intelligent Transportation System Improvements	\$ 10,000,000	\$ 10,000,000	822.22
2018-006-1	Fairfax County	Route 1 Widening (Mount Vernon Memorial Highway to Napper Road)	\$ 127,000,000	\$ 215,000,000	26.48
2018-007-0	Fairfax County	Richmond Highway Bus Rapid Transit - Phases I & II	\$ 250,000,000	\$ 544,800,000	28.58
2018-008-0	Fairfax County	Soapstone Drive Extension: Extend Soapstone Drive over Route 267 (Dulles Toll Road) to Sunset Hills Road	\$ 132,060,000	\$ 169,240,000	9.25
2018-009-1	Fairfax County	Frontier Drive Extension and Intersection Improvements	\$ 79,500,000	\$ 116,070,000	8.43
2018-010-2	Fairfax County	Route 28 Widening: Route 29 to Prince William County Line *	\$ 38,270,000	\$ 83,414,728	77.88
2018-011-0	Fairfax County	Braddock Road Intersection Improvements: Guinea Road to Ravensworth Road	\$ 52,400,000	\$ 69,800,000	3.01
2018-012-0	Fairfax County	Richmond Highway (Route 1)/CSX Underpass Widening	\$ 12,000,000	\$ 56,000,000	13.87
2018-013-0	Fairfax County	Seven Corners Ring Road Improvements Phase 1 A, Segment A	\$ 5,500,000	\$ 75,000,000	0.19
2018-014-1	Fairfax County	Rolling Road Widening: Hunter Village Drive to Old Keene Mill Road	\$ 11,111,000	\$ 51,600,000	79.73
2018-015-0	Fairfax County	Route 29 Widening Project, Phase II (Union Mill Road to Buckley's Gate Drive)	\$ 7,600,000	\$ 67,000,000	97.51
2018-016-2	Fairfax County	Fairfax County Parkway Widening from Ox Road to Lee Highway includes a grade separated interchange at the intersection of Popes Head Road	\$ 67,000,000	\$ 191,300,000	73.05
2018-017-0	Fairfax County	Rock Hill Road Bridge	\$ 100,000,000	\$ 100,000,000	67.25
2018-018-0	Fairfax County	Dulles Toll Road - Town Center Parkway Underpass	\$ 17,000,000	\$ 168,980,000	5.35
2018-019-0	Fairfax County	Route 28 Widening (Northbound from Route 50 to McLearen Road)	\$ 19,000,000	\$ 21,068,000	466.23
2018-020-0	Fairfax County	Shirley Gate Road Extension: Braddock Road to Fairfax County Parkway	\$ 42,000,000	\$ 50,980,000	21.62
2018-021-0	Loudoun County	Route 15 Bypass Widening: Battlefield Parkway to Montresor Road	\$ 54,000,000	\$ 81,163,683	106.63
2018-022-0	Loudoun County	Northstar Boulevard - Shreveport Drive to Tall Cedars Parkway	\$ 89,805,000	\$ 135,180,000	65.39
2018-023-0	Loudoun County	Extend Shellhorn Road: Loudoun County Parkway (Route 607) to Randolph Drive (Route 1072)	\$ 16,000,000	\$ 126,750,000	80.15
2018-024-0	Loudoun County	Route 28 Northbound Widening –between the Dulles Toll Road and Sterling Boulevard	\$ 20,000,000	\$ 23,508,200	216.70
2018-025-0	Loudoun County	Evergreen Mills Road Widening: Loudoun County Parkway to Northstar Boulevard	\$ 46,092,000	\$ 68,885,000	2.98
2018-026-0	Loudoun County	Prentice Drive Extension: Lockridge Road (Route 789) to Shellhorn Road (Route 643)	\$ 76,230,000	\$ 102,325,000	46.19
2018-027-0	Loudoun County	Route 9 Traffic Calming	\$ 12,112,000	\$ 22,206,000	16.01
2018-028-0	Loudoun County	Dulles West Boulevard Widening: Loudoun County Parkway to Northstar Boulevard	\$ 47,800,000	\$ 59,314,000	30.01
2018-029-0	Loudoun County	Evergreen Mills Road Intersection Realignments – Watson Road and Reservoir Road	\$ 14,000,000	\$ 14,000,000	6.02
2018-030-3	Prince William County	RT28 corridor improvements (Fitzwater Dr to Pennsylvania Ave)	\$ 15,000,000	\$ 70,900,000	71.22
2018-031-1	Prince William County	Route 28 Corridor Feasibility Study - Environmental Impact Statement (City of Manassas to Fairfax County)	\$ 3,500,000	\$ 5,100,000	21.13
2018-032-1	Prince William County	Construct Route 28 Corridor Roadway Improvements	\$ 145,000,000	\$ 228,000,000	21.13
2018-033-0	Prince William County	Construct Interchange at Route 234 and Sudley Manor Drive	\$ 80,600,000	\$ 80,600,000	2.84
2018-034-0	Prince William County	Construct Interchange at Route 234 and Brentsville Road	\$ 54,900,000	\$ 54,900,000	13.77
2018-035-0	Prince William County	Construct Interchange at Prince William Parkway and University Boulevard	\$ 24,200,000	\$ 24,200,000	17.57
2018-036-0	Prince William County	Summit School Rd Extension and Telegraph Rd Widening	\$ 38,700,000	\$ 38,700,000	3.03
2018-037-0	Prince William County	Construct University Boulevard (Progress Court to Devlin Road) – Phase I	\$ 28,500,000	\$ 28,500,000	4.82
2018-038-0	Prince William County	Devlin Road Widening: Wellington Road to Linton Hall Road	\$ 26,050,000	\$ 26,050,000	4.04
2018-039-0	Prince William County	Construct Interchange at Prince William Parkway and Clover Hill Road	\$ 12,900,000	\$ 12,900,000	72.84
2018-040-1	City of Alexandria	West End Transitway: Northern Segment (Phase 1)	\$ 60,750,000	\$ 128,151,000	23.73
2018-041-0	City of Alexandria	Alexandria ITS Projects	\$ 1,195,491	\$ 1,195,491	5520.61
2018-042-1	City of Alexandria	Alexandria Bus Network ITS	\$ 150,000	\$ 150,000	5144.53
2018-043-0	City of Alexandria	DASH Transit Service Enhancements and Expansion	\$ 11,933,161	\$ 23,068,161	33.70
2018-044-0	City of Alexandria	Alexandria Bike and Pedestrian Trails and Reconstruction	\$ 2,200,000	\$ 11,630,000	6.88
2018-045-2	City of Alexandria	Alexandria Duke St Transitway	\$ 12,000,000	\$ 115,050,000	17.07
2018-046-0	City of Fairfax	Jermantown Road Corridor Improvements	\$ 26,000,000	\$ 26,200,000	108.75
2018-047-0	City of Fairfax	Intersection Improvements at Eaton Place/Chain Bridge Road	\$ 10,750,000	\$ 10,850,000	19.76
2018-048-0	City of Fairfax	Old Lee Highway Multimodal Improvements Phase 1	\$ 5,000,000	\$ 14,000,000	1.83
2018-049-0	City of Fairfax	Roadway Network Northfax West	\$ 2,500,000	\$ 5,000,000	10.78
2018-050-0	City of Fairfax	City of Fairfax Bike Share Implementation	\$ 1,159,000	\$ 1,159,000	12.56
2018-051-0	City of Falls Church	West Falls Church & Joint Campus Revitalization District Multimodal Transportation Project	\$ 15,700,000	\$ 15,700,000	5.01
2018-052-0	City of Falls Church	North Washington Street Multimodal Transportation Project	\$ 14,500,000	\$ 14,500,000	16.93
2018-053-1	Town of Dumfries	Widen Route 1 (Fraleigh Blvd) to six lanes between Brady's Hill Rd and Dumfries Rd (RT234)	\$ 116,554,000	\$ 123,954,000	56.15
2018-054-2	Town of Leesburg	Construct Interchange at Route 7 and Battlefield Parkway	\$ 25,000,000	\$ 58,000,000	30.70
2018-055-2	Town of Leesburg	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	\$ 105,700,000	\$ 112,000,000	1.41
2018-056-0	Town of Leesburg	Construct Interchange at Route 15 Bypass and Battlefield Parkway	\$ 2,000,000	\$ 60,000,000	10.58
2018-057-0	Town of Vienna	Mill St NE Parking Garage	\$ 2,300,000	\$ 4,600,000	13.85
2018-058-1	VRE	VRE Crystal City Station Improvements	\$ 4,000,000	\$ 41,810,000	6.92
2018-059-0	VRE	VRE Woodbridge Station and Occoquan Third Track Improvements	\$ 27,500,000	\$ 230,000,000	1.03
2018-062-0	NOVA Parks	Falls Church Enhanced Regional Bike Routes (W&OD)	\$ 3,793,209	\$ 3,793,209	34.18

* Fairfax County project 2018-010-2 was evaluated as a six-lane widening (instead of an eight-lane widening) in order to be consistent with TransAction. Consequently, a lower project cost (\$83,414,728) was used to calculate the CRRC ratio for project 2018-010-2 than that originally submitted by Fairfax County (\$91,100,000).

DRAFT
4/13/2018
Northern Virginia Transportation Authority
FY 2018-23 Six Year Program Project Ratings



Goal 1: Enhance quality of life and economic strength of Northern Virginia through transportation													Goal 2: Enable optimal use of the transportation network and leverage the existing network				Goal 3: Reduce negative impacts	Project Performance Rating											
1.1 Congestion Reduction				1.2 Travel Time Reliability		1.3 Accessibility		1.4 Activity Center Connectivity			2.1 Safety	2.2 System Integration	2.3 Vehicle Productivity	2.4 Resiliency	3.1 Emissions Reduction														
1.1.1 Total Person Hours of Delay (HB 599)	1.1.2 Transit Crowding [transit route-miles] (HB 599)	1.1.3 Person Hours of Congested Travel in Automobiles (HB 599)	1.1.4 Person Hours of Congested Travel in Transit Vehicles (HB 599)	1.2.1 Congestion Severity: Maximum Travel Time Ratio	1.2.2 Congestion Duration [hours*lane-miles] (HB 599)	1.3.1 Percentage of jobs / population within 1/2 mile of high quality transit	1.3.2 Number of jobs within 45 minutes by auto or within 60 mins by transit (HB 599)	1.4.1 Average travel time per trip between Regional Activity Centers [minutes]	1.4.2 Walkable / bikeable environment within a Regional Activity Center	2.1.1 Safety of the transportation system	2.2.1 First and last mile connections	2.3.1 Person Miles per Vehicle Mile	2.4.1 Person Hours of travel caused by 10% increase in PM peak hour demand (HB 599)	3.1.1 Vehicle miles traveled (VMT) at speeds with high emission rates															
DRAFT Project Ratings for NVTA FY2018-23 Six Year Program (SYP)													10%	5%	5%	5%	5%	10%	5%	5%	5%	5%	5%	5%	10%	10%	5%	10%	100%
Horizon Year 2040																													
ID	Project Title	Sq. Mi	PHD	RouteMi /SqMi	Cong PHT /SqMi	Cong PHT /SqMi	Max Hour	Hours*Mi /SqMi	Percent	Jobs	Minutes	Qual Score	EPDO Value	Qual Score	PMT/VMT	PMT/SqMi	VMT/SqMi	Rating											
2018-001-0	ART Operations and Maintenance Facilities	26.4	731	1	16	-	0.01	-	0%	389,559	2.11	5.72	-	0.59	-	-	-	65.96											
2018-002-1	Ballston-MU Metrorail Station West Entrance	0.3	412	25	1,677	192	0.20	30	0%	261,217	0.87	4.00	-	4.00	0.08	-	9,418	57.26											
2018-003-0	Crystal City Metrorail Station East Entrance and Intermodal Connections	1.0	17	-	-	21	-	-	0%	299,362	1.93	4.02	-	3.94	-	-	-	51.94											
2018-004-0	Pentagon City Multimodal Connections and Transitway Extension	0.6	964	9	1,757	-	0.59	-	0%	549,642	1.91	4.28	-	4.11	-	-	2,457	66.01											
2018-005-0	Intelligent Transportation System Improvements	4.1	2,357	12	609	2	0.05	26	0%	316,785	1.46	4.48	40	1.99	0.05	-	882	69.39											
2018-006-1	Route 1 Widening (Mount Vernon Memorial Highway to Napper Road)	3.7	4,630	3	1,174	72	0.44	10	0%	502,972	1.08	4.94	-	-	0.01	39	1,737	75.14											
2018-007-0	Richmond Highway Bus Rapid Transit - Phases I & II	3.5	6,106	12	1,887	122	0.26	29	36%	518,412	0.73	5.69	74	0.42	0.01	43	7,726	85.86											
2018-008-0	Soapstone Drive Extension: Extend Soapstone Drive over Route 267 (Dulles Toll Road) to Sunset Hills Road	2.6	6,000	9	2,303	154	0.51	-	0%	307,677	3.71	3.10	36	2.91	-	-	-	67.47											
2018-009-1	Frontier Drive Extension and Intersection Improvements	1.9	880	3	416	44	0.19	8	0%	968,644	0.67	5.17	-	2.71	-	-	1,185	69.80											
2018-010-2	Route 28 Widening: Route 29 to Prince William County Line	5.0	1,042	-	436	3	-	2	0%	680,961	1.20	-	-	-	-	65	732	68.40											
2018-011-0	Braddock Road Intersection Improvements: Guinea Road to Ravensworth Road	3.8	339	-	56	1	0.04	1	0%	729,773	-	-	53	0.22	-	82	824	65.56											
2018-012-0	Richmond Highway (Route 1)/CSX Underpass Widening	0.8	381	0	900	15	0.18	6	0%	917,362	-	-	71	0.15	0.01	100	439	70.75											
2018-013-0	Seven Corners Ring Road Improvements Phase 1 A, Segment A	1.0	244	15	366	58	0.07	9	0%	403,009	0.98	4.97	81	1.20	-	-	1,320	66.66											
2018-014-1	Rolling Road Widening: Hunter Village Drive to Old Keene Mill Road	2.0	520	1	582	8	-	1	0%	968,464	-	-	-	-	-	198	1,500	65.99											
2018-015-0	Route 29 Widening Project, Phase II (Union Mill Road to Buckley's Gate Drive)	2.3	959	-	528	3	0.22	1	0%	526,195	0.60	-	-	-	0.01	62	2,161	68.92											
2018-016-2	Fairfax County Parkway Widening from Ox Road to Lee Highway includes a grade separated interchange at the intersection of Popes Head Road	2.7	3,131	-	-	0	0.20	-	0%	778,908	0.42	-	31	-	0.02	261	-	76.40											
2018-017-0	Rock Hill Road Bridge	0.9	1,871	-	2,445	4	0.18	-	0%	413,853	1.30	3.00	-	3.00	-	-	6,996	75.22											
2018-018-0	Dulles Toll Road - Town Center Parkway Underpass	1.2	677	2	637	40	-	-	0%	261,743	1.50	1.78	-	3.00	0.01	15	2,128	72.40											
2018-019-0	Route 28 Widening (Northbound from Route 50 to McLearn Road)	3.2	5,497	2	1,826	10	0.78	3	0%	618,188	1.57	-	-	-	-	295	8,503	79.18											
2018-020-0	Shirley Gate Road Extension: Braddock Road to Fairfax County Parkway	1.8	261	-	151	-	-	-	0%	848,113	-	-	-	-	-	-	-	67.38											
2018-021-0	Route 15 Bypass Widening: Battlefield Parkway to Montresor Road	4.3	8,456	-	2,355	2	1.76	8	0%	422,028	1.55	-	-	-	-	54	12,000	80.77											
2018-022-0	Northstar Boulevard - Shreveport Drive to Tall Cedars Parkway	3.0	1,614	-	1,285	2	0.13	10	0%	530,590	2.16	-	-	-	0.02	34	6,110	69.54											
2018-023-0	Extend Shellhorn Road: Loudoun County Parkway (Route 607) to Randolph Drive (Route 1072)	1.9	4,468	-	3,087	12	1.10	-	0%	678,360	4.52	-	-	1.90	-	-	11,989	85.13											
2018-024-0	Route 28 Northbound Widening –between the Dulles Toll Road and Sterling Boulevard	2.7	8,039	-	3,228	7	0.18	-	0%	420,673	1.52	2.01	-	0.95	-	-	6,206	90.00											
2018-025-0	Evergreen Mills Road Widening: Loudoun County Parkway to Northstar Boulevard	0.5	627	-	1,786	0	0.42	8	0%	555,708	3.05	-	-	-	-	58	10,463	66.32											
2018-026-0	Prentice Drive Extension: Lockridge Road (Route 789) to Shellhorn Road (Route 643)	1.6	1,310	-	1,919	17	0.50	-	0%	656,247	3.41	-	-	1.10	-	60	7,990	72.95											
2018-027-0	Route 9 Traffic Calming	0.1	556	-	3,801	9	2.19	4	0%	68,041	-	-	16	-	0.01	103	-	53.58											
2018-028-0	Dulles West Boulevard Widening: Loudoun County Parkway to Northstar Boulevard	2.7	2,417	-	1,389	0	0.10	12	0%	548,183	2.96	-	-	-	-	-	6,103	72.51											
2018-029-0	Evergreen Mills Road Intersection Realignments – Watson Road and Reservoir Road	0.9	92	-	14	-	0.06	-	0%	460,059	-	-	4	-	-	-	210	68.03											

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**Northern Virginia Transportation Authority
FY 2018-23 Six Year Program Project Ratings**



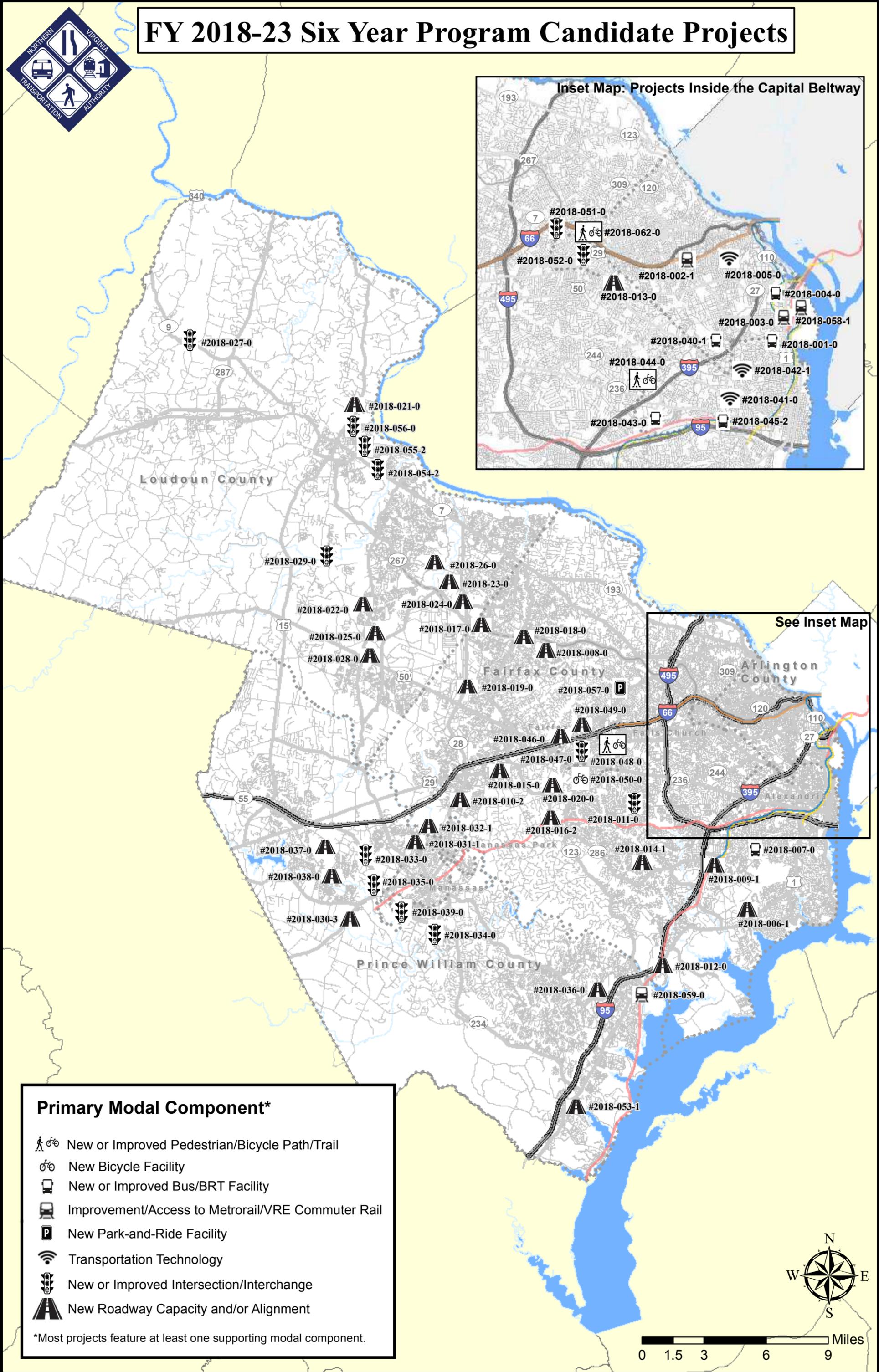
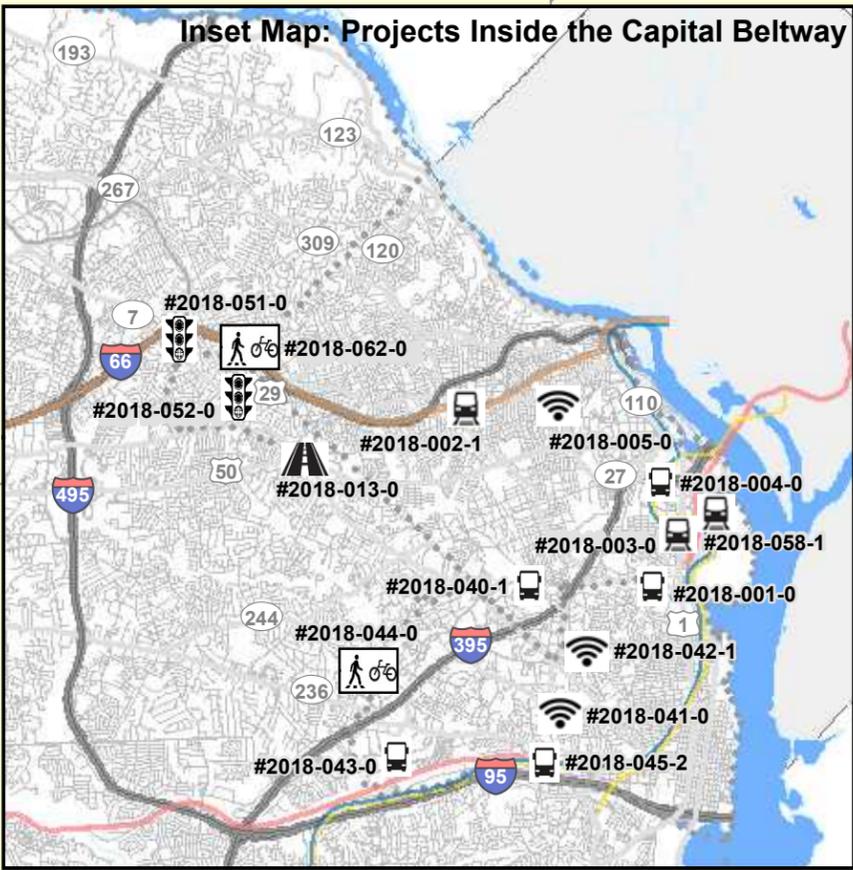
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DRAFT Project Ratings for NVTA FY2018-23 Six Year Program (SYP) Horizon Year 2040	10%	5%	5%	5%	5%	10%	5%	5%	5%	5%	5%	10%	10%	5%	10%	100%
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ID	Project Title	Sq. Mi	PHD	RouteMi /SqMi	Cong PHT /SqMi	Cong PHT /SqMi	Max Hour	Hours*Mi /SqMi	Percent	Jobs	Minutes	Qual Score	EPDO Value	Qual Score	PMT/VMT	PMT/SqMi	VMT/SqMi	Rating
2018-030-3	RT28 corridor improvements (Fitzwater Dr to Pennsylvania Ave)	2.5	1,567	-	909	1	0.23	18	0%	432,632	-	-	-	0.63	-	51	4,565	70.62
2018-031-1	Route 28 Corridor Feasibility Study - Environmental Impact Statement (City of Manassas to Fairfax County)	8.0	623	1	139	2	-	0	0%	741,338	1.21	-	-	-	0.00	42	739	67.59
2018-032-1	Construct Route 28 Corridor Roadway Improvements	8.0	623	1	139	2	-	0	0%	741,338	1.21	-	-	-	0.00	42	739	67.59
2018-033-0	Construct Interchange at Route 234 and Sudley Manor Drive	1.4	1,290	-	750	1	0.14	7	0%	667,088	1.83	-	-	-	-	-	2,182	70.19
2018-034-0	Construct Interchange at Route 234 and Brentsville Road	1.4	172	-	57	0	0.09	2	0%	451,674	-	-	-	-	-	31	-	67.96
2018-035-0	Construct Interchange at Prince William Parkway and University Boulevard	1.0	985	-	716	2	0.26	2	0%	548,913	1.85	-	-	-	-	-	4,097	72.69
2018-036-0	Summit School Rd Extension and Telegraph Rd Widening	2.4	1,281	0	506	14	0.19	6	0%	713,356	-	-	-	-	0.00	-	3,655	69.91
2018-037-0	Construct University Boulevard (Progress Court to Devlin Road) – Phase I	2.9	328	-	13	-	0.07	0	0%	530,552	1.19	-	-	-	-	-	-	66.10
2018-038-0	Devlin Road Widening: Wellington Road to Linton Hall Road	2.7	544	-	22	-	0.13	1	0%	528,447	-	-	-	-	-	-	110	66.93
2018-039-0	Construct Interchange at Prince William Parkway and Clover Hill Road	1.4	220	-	-	-	-	-	0%	485,670	2.15	4.88	-	0.02	0.01	39	-	68.35
2018-040-1	West End Transitway: Northern Segment (Phase 1)	7.2	658	9	396	9	-	-	5%	289,755	1.30	5.47	-	1.33	-	17	-	68.16
2018-041-0	Alexandria ITS Projects	2.2	695	11	348	31	-	4	0%	320,323	1.16	5.35	1	0.72	0.01	-	828	65.00
2018-042-1	Alexandria Bus Network ITS	0.6	327	9	641	31	-	2	0%	321,583	0.87	5.58	-	0.28	0.01	-	2,352	64.62
2018-043-0	DASH Transit Service Enhancements and Expansion	16.1	1,889	3	131	10	0.03	-	0%	340,700	1.20	6.54	-	1.06	-	-	549	66.53
2018-044-0	Alexandria Bike and Pedestrian Trails and Reconstruction	2.5	37	2	-	-	-	-	0%	271,122	1.04	6.45	-	-	-	-	-	66.90
2018-045-2	Alexandria Duke St Transitway	2.0	959	10	562	61	-	-	23%	337,651	1.19	5.53	1	1.28	-	-	1,179	71.33
2018-046-0	Jermantown Road Corridor Improvements Project	0.7	235	-	472	26	0.12	11	0%	804,335	-	-	-	-	-	7	3,464	65.80
2018-047-0	Intersection Improvements at Eaton Place/Chain Bridge Road	1.0	169	1	-	2	-	-	0%	529,991	0.93	3.58	44	-	-	-	-	65.01
2018-048-0	Old Lee Highway Multimodal Improvements Phase 1	1.6	90	-	610	22	-	-	0%	533,394	0.94	6.00	30	-	-	-	1,692	67.11
2018-049-0	Roadway Network Northfax West	1.0	269	1	1	11	-	-	0%	574,721	0.94	3.43	48	-	-	-	-	66.91
2018-050-0	City of Fairfax Bike Share Implementation	6.2	-	-	-	-	-	-	0%	563,034	1.21	5.14	34	0.38	-	-	-	66.44
2018-051-0	West Falls Church & Joint Campus Revitalization District Multimodal Transportation Project	0.2	54	8	334	15	0.06	-	0%	483,541	1.26	4.00	101	4.00	0.01	-	847	52.57
2018-052-0	North Washington Street Multimodal Transportation Project	0.1	66	4	854	58	0.11	3	0%	324,397	0.93	5.00	94	2.00	0.04	-	-	50.69
2018-053-1	Widen Route 1 (Fralely Blvd) to six lanes between Brady's Hill Rd and Dumfries Rd (RT234)	2.7	2,494	1	772	5	0.16	6	0%	773,509	-	-	-	-	-	-	1,458	72.84
2018-054-2	Construct Interchange at Route 7 and Battlefield Parkway	1.0	819	-	739	6	0.05	-	0%	625,539	-	-	-	-	-	-	7,617	71.12
2018-055-2	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	1.0	-	1	-	0	-	-	0%	480,270	1.65	-	-	-	-	-	-	64.73
2018-056-0	Construct Interchange at Route 15 Bypass and Battlefield Parkway	1.0	956	-	1,135	1	0.47	15	0%	469,640	1.63	-	-	-	-	-	7,818	72.54
2018-057-0	Mill St NE Parking Garage	0.1	55	5	489	-	0.19	1	0%	506,577	-	-	-	-	0.01	-	3,151	52.73
2018-058-1	VRE Crystal City Station Improvements	0.1	129	5	1,405	79	0.19	30	0%	413,746	0.87	6.22	-	0.22	-	151	2,454	63.91
2018-059-0	VRE Woodbridge Station and Occoquan Third Track Improvements	0.2	107	7	739	21	0.24	9	0%	670,408	0.83	5.00	-	2.00	0.03	32	3,913	64.19
2018-062-0	Falls Church Enhanced Regional Bike Routes (W&OD)	0.1	56	11	766	31	0.77	-	0%	399,282	0.93	4.00	64	4.00	-	8	906	50.00



FY 2018-23 Six Year Program Candidate Projects



Primary Modal Component*

-  New or Improved Pedestrian/Bicycle Path/Trail
-  New Bicycle Facility
-  New or Improved Bus/BRT Facility
-  Improvement/Access to Metrorail/VRE Commuter Rail
-  New Park-and-Ride Facility
-  Transportation Technology
-  New or Improved Intersection/Interchange
-  New Roadway Capacity and/or Alignment

*Most projects feature at least one supporting modal component.

