



Northern Virginia Transportation Authority

The Authority for Transportation in Northern Virginia

TECHNICAL ADVISORY COMMITTEE

Wednesday, April 20, 2022, 7:00pm

3040 Williams Drive, Suite 200

Fairfax, Virginia 22031

(In-person meeting and livestreamed via [YouTube](#))

AGENDA

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

Action

- II. Summary Notes of March 16th, 2022 Meeting** Chair Boice
Recommended action: Approve meeting notes

Discussion/Information

- III. Status of FY2022-2027 Six Year Program Update** Dr. Nampoothiri, Senior
Transportation Planner
- IV. Status of TransAction Plan Update** Dr. Nampoothiri, Senior
Transportation Planner
- V. NVT A Updates** Ms. Monica Backmon,
CEO

Adjournment

- VI. Adjourn**

Next Meeting
May 18th, 2022



Northern Virginia Transportation Authority
The Authority for Transportation in Northern Virginia

TECHNICAL ADVISORY COMMITTEE
Wednesday, March 16th, 2022, 7:00 pm
Northern Virginia Transportation Authority
Live-streamed on [YouTube](#)

MEETING SUMMARY

I. Call to Order/Welcome

- Chairman Boice called the meeting to order at 7:03 pm at the NVTA Office.
- Attendees:
 - **TAC Members:** Randy Boice, Karen Campblin, Armand Ciccarelli, Amy Morris, Frank Spielberg, and Dr. Shanjiang Zhu.
 - **NVTA Staff:** Keith Jasper, Principal, Transportation Planning and Programming; Dr. Sree Nampoothiri, Senior Transportation Planner; and Mackenzie Love, Regional Transportation Planner.
 - **Consultants:** Tom Harrington (Cambridge Systematics Inc.)

II. Summary of November 22, 2021, Meeting

- The motion to accept the meeting summary was approved unanimously.

III. Approval of Meeting Schedule for Calendar Year 2022

- Mr. Jasper noted that NVTA Staff intend to seek endorsements for the FY2022-2027 Six Year Program (SYP) during the June 15th meeting.
- The motion to accept the draft meeting schedule was approved unanimously.

IV. Status of FY2022-2027 Six Year Program Update

- Dr. Nampoothiri provided an update on the process that had been undertaken as of March 16th, 2022, to evaluate the 26 projects that had been submitted for consideration in NVTA's FY2022-2027 Six Year Program (SYP.) This included calculation of the TransAction Performance Measures and weightings, which can be found in Attachment A.

TransAction Ratings. These ratings represent the difference in each of the Performance Measures included in TransAction that NVTA's model anticipates would occur if the project were built. For each Performance Measure, the project that receives the best result is assigned a score of 100 and all other projects are assigned a score that is relatively proportionate. Once each project has been assigned a score for each Performance Measure, the weights previously approved by the Authority are applied to

those scores, which are summed to get an overall TransAction Rating for each project.

NVTA Staff have shared the preliminary TransAction Ratings for each project submitted by a jurisdiction, to ensure no errors were made in modeling any project.

Congestion Reduction Relative to Cost (CRRC). To calculate this, NVTA's model is used to assess potential congestion reduction in the region due to the project being built in 2030 and in 2045. This is reported in TransAction Performance Measures A1 and A2, and staff are able to use these results to extrapolate changes for each year between 2030 and 2045. The results for all years from the year of project completion are then summed for each project, and that is divided by the total cost of that project.

Long Term Benefit (LTB). Virginia Code states that over the long term, jurisdictions should receive a benefit from NVTA's investments that are approximately equal to the share of revenues that can be attributed to that jurisdiction, in the long term.

Mr. Jasper explained that the Code does not describe how to calculate this Long Term Benefit, so in 2014 NVTA worked with its committees to determine that "long term" would be considered to mean 10 years, and that LTB would be calculated on a rolling basis. They also worked to establish a methodology, which would use two factors to create a score. 50% of said score would be based on the amount of revenues allocated to projects by a jurisdiction, and the remaining 50% would be related to where the benefits of projects could be attributed. He went on to explain that because NVTA has recently allocated 10 years of funding, it is now time to begin calculating LTB. He cautioned that it is unlikely that all jurisdictions will be in perfect balance in regards to LTB at any point, and that corrections would take multiple SYP cycles. Despite this, LTB balance may inform project selection in a given SYP cycle, but would not be the primary factor in funding recommendations.

- Dr. Nampoothiri distributed copies of a table that detailed the factors that will be considered in evaluating projects for the FY2022-2027 SYP. It included columns for CRRC rating and rank, which will be used to order candidate projects in the table; TransAction rating and rank; and LTB scores. The remaining factors are qualitative and include:

- Amount and type of external funding already committed to the project
 - Past performance of the applicant in using NVT A funds, and, if applicable, past performance of that particular project in using NVT A funds
 - Project readiness.
- Dr. Nampoothiri also noted that public comment will also be considered. Mr. Jasper noted that NVT A is also interested in geographic and modal balance, but that assessment of these factors can only be done at the end of the process.
 - Mr. Spielberg asked if this approach favors adding highway capacity? Chairman Boice highlighted that in one year, Virginia Railway Express (VRE) and an Intelligent Transportation System (ITS) were actually the top two highest performing projects. Mr. Jasper added that the Consultant team working on TransAction does a good job addressing all modes.
- Dr. Nampoothiri shared upcoming opportunities for the public to provide input:
- A Public Comment Period will begin on April 15th and end on May 22nd;
 - A Public Hearing will be held on May 12th, on the same evening as the Authority meeting; and
 - An Open House will be held as part of the Joint Transportation Agency meeting, that will take place on May 4th at the Virginia Department of Transportation offices.
- NVT A Staff hope to seek Authority adoption of the SYP 2022-20227 at its July meeting.

V. Status of TransAction Plan Update

- Dr. Nampoothiri informed the Committee that the model being developed for TransAction is now ready and has been used to create a baseline to which projects will be compared. The team is now working to finalize top-down project lists, based on gaps identified in the region. Once that list is finalized, NVT A Staff will share the full TransAction project list (including both top-down and those contributed by jurisdictions) with the Committee. After that, the model will be run to evaluate the projects. Next, work will begin on the TransAction scenario analysis process.

Dr. Nampoothiri also provided an update on TransAction public engagement, indicating that NVT A Staff intend to ask the Authority to approve a date for a Public Hearing, likely in September, on the same evening they are asked to adopt

the SYP. This timing would align with hopeful adoption of TransAction by the end of this calendar year. Other recent engagement activities included the 4th iteration of the NVTa Perceptions survey; creation of “micro-moments” on NVTa’s social media; and publishing a series of monthly blog posts about the TransAction process.

- Mr. Spielberg asked two questions about the TransAction Technical Memo, which had been shared with the Committee before the meeting:
 - How would free-flow be calculated for use in evaluation of Person Hours of Delay, or PHD, a TransAction Performance Measure? Mr. Harrington indicated that this would be calculated based on the speed limit of a road.
 - What are the origins of the Crash Mitigation Factors (CMFs) utilized in the TransAction Performance Measures around safety? Mr. Harrington explained that most of the CMFs are standard from SmartScale, which is the Commonwealth’s competitive grant program for transportation projects. Chairman Boice added that the CMFs are based on the national Highway Safety Manual.

VI. NVTa Updates

- Mr. Jasper reminded the Committee that NVTa would be hosting the 7th Annual Northern Virginia Transportation Roundtable on Wednesday, March 30th, and invited them to register.
- Mr. Jasper informed the Committee that the Authority meeting scheduled for April 14th was being rescheduled, and that April 21st was the most likely option.

VII. Adjournment

- The meeting adjourned at 8:53 pm.

Attachment:

A. Weights for the Ten Performance Measures Recommended by the Authority





















































Weights for the Ten Performance Measures Recommended by the Authority

Approved by the Authority			
Goal		Performance Measure	Weight
Mobility	A1	Total Person-Hours of Delay in autos*	10
	A2	Total Person-Hours of Delay on Transit*	10
	B1	Duration of Severe Congestion*	10
	B2	Transit person-miles in dedicated/priority ROW*	10
Accessibility	C1	Access to jobs by car, transit, and bike*	10
	C2	Access to jobs by car, transit, and bike for EEA populations	10
	D1	Quality of access to transit and the walk/bike network	15
Resiliency	E1	Potential for safety and security improvements	10
	F1	Vehicle Emissions	10
	G1	Transportation System Redundancy*	5









* HB599 measures

Northern Virginia Transportation Authority
Summary of FY2022-2027 Six Year Program Candidate Projects

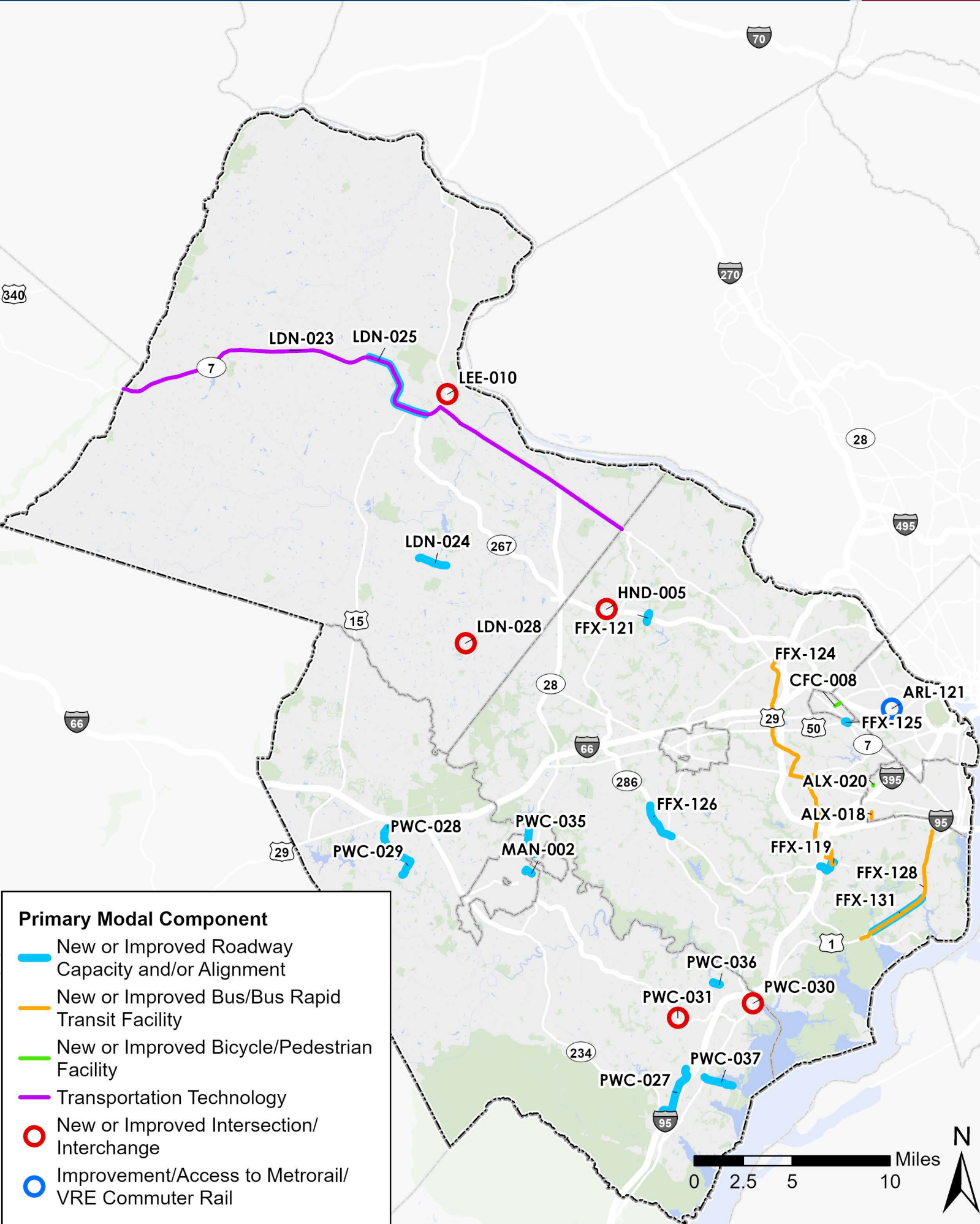
4/14/2022

#	Application ID	Jurisdiction / Agency	Project	Fund request	Total project cost	Primary and supporting modal components
1	ARL-021	Arlington Co	Ballston-MU Metrorail Station West Entrance	\$ 80,000,000	\$ 140,000,000	 
2	FFX-131	Fairfax Co	Richmond Highway Widening From Mt. Vernon Memorial Highway/Jeff Todd Way to Sherwood Hall Lane	\$ 60,207,038	\$ 415,000,000	  
3	FFX-128	Fairfax Co	Richmond Highway (Route 1) BRT	\$ 80,000,000	\$ 730,000,000	 
4	FFX-121	Fairfax Co	Soapstone Drive Extension: Sunset Hills Road to Sunrise Valley Drive	\$ 73,793,037	\$ 235,000,000	 
5	FFX-119	Fairfax Co	Frontier Drive Extension and Intersection Improvements	\$ 145,200,000	\$ 180,200,000	 
6	FFX-126	Fairfax Co	Fairfax County Parkway Widening: Nomes Court to Route 123	\$ 108,000,000	\$ 115,035,882	   
7	FFX-125	Fairfax Co	Seven Corners Ring Road Improvements: Arlington Boulevard (Route 50) Westbound Ramp to Castle Place/Sleepy Hollow Road	\$ 94,800,000	\$ 94,800,000	  
8	FFX-124	Fairfax Co	8 New Battery Electric Buses - Fairfax Connector Buses for Tysons to Franconia Service	\$ 10,000,000	\$ 10,000,000	
9	LDN-025	Loudoun Co	Route 7 Improvements: Route 9 to Dulles Greenway	\$ 20,000,000	\$ 130,992,500	
10	LDN-028	Loudoun Co	Loudoun County Parkway Interchange at US 50	\$ 35,250,000	\$ 181,152,680	 
11	LDN-024	Loudoun Co	Ryan Road Widening (Phase 2): Evergreen Mills Road to Beaverdam Drive	\$ 16,000,000	\$ 31,500,000	
12	LDN-023	Loudoun Co	Route 7 Corridor ITS Implementation Program	\$ 2,500,000	\$ 3,777,000	
13	PWC-031	Prince William Co	Construct Interchange at Prince William Parkway and Minnieville Road	\$ 67,500,000	\$ 70,000,000	 
14	PWC-030	Prince William Co	Route 1 at Route 123 Interchange	\$ 61,200,000	\$ 68,000,000	 
15	PWC-027	Prince William Co	Van Buren Road North Extension: Route 234 to Cardinal Drive	\$ 80,000,000	\$ 82,000,000	 
16	PWC-029	Prince William Co	Devlin Road (South) Widening: Linton Hall Road to University Boulevard	\$ 35,000,000	\$ 40,000,000	 
17	PWC-028	Prince William Co	University Boulevard Extension: Devlin Road to Wellington Road	\$ 53,000,000	\$ 100,000,000	 
18	PWC-036	Prince William Co	Old Bridge Road Widening: Colby Drive to Minnieville Road	\$ 25,000,000	\$ 25,000,000	
19	PWC-037	Prince William Co	Neabsco Road Improvements - Neabsco Road Widening: Route 1 to Daniel Ludwig Drive	\$ 26,500,000	\$ 26,500,000	
20	PWC-035	Prince William Co	Old Centreville Road Widening: Fairfax County Line to Route 28	\$ 96,000,000	\$ 96,000,000	 
21	ALX-018	City of Alexandria	West End Transitway Phase 1b: South Van Dorn Street and Bridge Design	\$ 5,000,000	\$ 40,999,440	 
22	ALX-020	City of Alexandria	Alexandria Bike and Pedestrian Trails Construction and Reconstruction: Holmes Run Trail - Dora Kelly Fair-weather Crossing Bridge	\$ 5,000,000	\$ 5,500,000	 
23	CFC-008	City of Falls Church	North Washington Street Multimodal Improvements Project: Great Falls Street to Gresham Place	\$ 22,500,000	\$ 22,500,000	  
24	MAN-002	City of Manassas	Liberia Avenue 3rd Lane Eastbound: Route 28 to Euclid Avenue	\$ 8,851,639	\$ 8,851,639	  
25	HND-005	Town of Herndon	Herndon Parkway Improvements at Worldgate Drive Extension	\$ 4,581,000	\$ 6,536,000	 
26	LEE-010	Town of Leesburg	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	\$ 13,283,839	\$ 185,074,950	 
26			TOTAL	\$ 1,229,166,553	\$ 3,044,420,091	

Modal Components

-  New or improved roadway capacity and/or alignment
-  New or improved intersection/interchange
-  Improvement/access to Metrorail/VRE commuter rail
-  New or improved bus/BRT facility
-  New or improved bicycle/pedestrian facility
-  New or improved bicycle facility
-  New or improved pedestrian facility
-  Transportation Technology

First symbol reflects the primary modal component, other symbols denote supporting modal components






































































Primary Modal Component

- New or Improved Roadway Capacity and/or Alignment
- New or Improved Bus/Bus Rapid Transit Facility
- New or Improved Bicycle/Pedestrian Facility
- Transportation Technology
- New or Improved Intersection/Interchange
- Improvement/Access to Metrorail/VRE Commuter Rail

Northern Virginia Transportation Authority

FY2022-27 Six Year Program Candidate Projects: Summary of Quantitative and Qualitative Evaluations

4/14/2022

Application ID	Jurisdiction / Agency	Project	Primary and supporting modal components	Fund request	Total project cost	Phases for which funds are requested	Previously Approved NVTA Regional Funds	Phases for which there is still a funding gap	Local priority	External funds	Past performance (% of expected funds reimbursed by FY2022 Q2) Continuation Jurisdiction/ Projects Agency		Past performance (% of allocated funds reimbursed by FY2022 Q2) Continuation Jurisdiction/ Projects Agency		Reimb. Request to SPA ratio (FY2021)	First fiscal year of expected drawdown	Year of opening	Long Term Benefit	Other	TransAction project rating (incl. HB 599)	TransAction project rating rank (incl. HB 599)	CRRC (Reduction in annual person hours of delay / Total project cost in \$1000's)	CRRC rank
LDN-023	Loudoun Co	Route 7 Corridor ITS Implementation Program		\$ 2,500,000	\$ 3,777,000	CN														20.10	9	2064.26	1
LDN-025	Loudoun Co	Route 7 Improvements: Route 9 to Dulles Greenway		\$ 20,000,000	\$ 130,992,500	ROW, CN		PE, ROW, CN												33.32	5	110.79	2
FFX-126	Fairfax Co	Fairfax County Parkway Widening: Nomes Court to Route 123	   	\$ 108,000,000	\$ 115,035,882	PE, ROW, CN														56.20	1	105.22	3
PWC-035	Prince William Co	Old Centreville Road Widening: Fairfax County Line to Route 28	  	\$ 96,000,000	\$ 96,000,000	PE, ROW, CN													Note A	36.15	4	104.72	4
PWC-028	Prince William Co	University Boulevard Extension: Devlin Road to Wellington Road	  	\$ 53,000,000	\$ 100,000,000	CN														27.21	7	88.43	5
PWC-027	Prince William Co	Van Buren Road North Extension: Route 234 to Cardinal Drive	  	\$ 80,000,000	\$ 82,000,000	PE, ROW, CN														17.16	13	70.77	6
MAN-002	City of Manassas	Liberia Avenue 3rd Lane Eastbound: Route 28 to Euclid Avenue	  	\$ 8,851,639	\$ 8,851,639	PE, ROW, CN														7.79	24	69.11	7
PWC-036	Prince William Co	Old Bridge Road Widening: Colby Drive to Minnieville Road		\$ 25,000,000	\$ 25,000,000	PE, ROW, CN														12.03	18	64.48	8
FFX-124	Fairfax Co	8 New Battery Electric Buses - Fairfax Connector Buses for Tysons to Franconia Service		\$ 10,000,000	\$ 10,000,000	Asset Acq														15.99	14	48.88	9
PWC-029	Prince William Co	Devlin Road (South) Widening: Linton Hall Road to University Boulevard	  	\$ 35,000,000	\$ 40,000,000	ROW, CN														9.04	21	28.99	10
FFX-131	Fairfax Co	Richmond Highway Widening From Mt. Vernon Memorial Highway/Jeff Todd Way to Sherwood Hall Lane	  	\$ 60,207,038	\$ 415,000,000	PE, ROW, CN	\$ 248,387,962													37.98	3	21.95	11
HND-005	Town of Herndon	Herndon Parkway Improvements at Worldgate Drive Extension	  	\$ 4,581,000	\$ 6,536,000	ROW, CN														17.52	12	17.94	12
LDN-024	Loudoun Co	Ryan Road Widening (Phase 2): Evergreen Mills Road to Beaverdam Drive		\$ 16,000,000	\$ 31,500,000	ROW, CN														9.28	20	17.50	13
PWC-031	Prince William Co	Construct Interchange at Prince William Parkway and Minnieville Road	  	\$ 67,500,000	\$ 70,000,000	ROW, CN														13.75	16	13.55	14
PWC-030	Prince William Co	Route 1 at Route 123 Interchange	  	\$ 61,200,000	\$ 68,000,000	PE, CN														10.91	19	7.37	15
LDN-028	Loudoun Co	Loudoun County Parkway Interchange at US 50	  	\$ 35,250,000	\$ 181,152,680	PE, ROW, CN														12.80	17	6.87	16
FFX-128	Fairfax Co	Richmond Highway (Route 1) BRT	  	\$ 80,000,000	\$ 730,000,000	PE, ROW, CN	\$ 250,000,000	PE, ROW, CN												44.50	2	5.97	17
FFX-125	Fairfax Co	Seven Corners Ring Road Improvements: Arlington Boulevard (Route 50) Westbound Ramp to Castle Place/Sleepy Hollow Road	   	\$ 94,800,000	\$ 94,800,000	PE, ROW, CN														8.83	22	5.13	18
FFX-121	Fairfax Co	Soapstone Drive Extension: Sunset Hills Road to Sunrise Valley Drive	  	\$ 73,793,037	\$ 235,000,000	PE, ROW, CN	\$ 15,000,000				N/A		N/A							19.65	10	4.65	19
PWC-037	Prince William Co	Neabsco Road Improvements - Neabsco Road Widening: Route 1 to Daniel Ludwig Drive		\$ 26,500,000	\$ 26,500,000	PE, ROW, CN														3.12	26	3.85	20
FFX-119	Fairfax Co	Frontier Drive Extension and Intersection Improvements	  	\$ 145,200,000	\$ 180,200,000	PE, ROW, CN	\$ 27,000,000													8.46	23	3.79	21
ALX-018	City of Alexandria	West End Transitway Phase 1b: South Van Dorn Street and Bridge Design	  	\$ 5,000,000	\$ 40,999,440	PE		ROW, CN												30.73	6	2.77	22
LEE-010	Town of Leesburg	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	  	\$ 13,283,839	\$ 185,074,950	ROW	\$ 7,400,000	CN												17.97	11	1.83	23
ARL-021	Arlington Co	Ballston-MU Metrorail Station West Entrance	  	\$ 80,000,000	\$ 140,000,000	CN	\$ 12,000,000													26.08	8	1.37	24
ALX-020	City of Alexandria	Alexandria Bike and Pedestrian Trails Construction and Reconstruction: Holmes Run Trail - Dora Kelly Fair-weather Crossing Bridge	 	\$ 5,000,000	\$ 5,500,000	CN		PE												6.35	25	0.20	25
CFC-008	City of Falls Church	North Washington Street Multimodal Improvements Project: Great Falls Street to Gresham Place	  	\$ 22,500,000	\$ 22,500,000	PE, ROW, CN														14.49	15	0.15	26
		TOTAL		\$ 1,229,166,553	\$ 3,044,420,091		\$ 3,044,420,091																

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Northern Virginia Transportation Authority

FY2022-27 Six Year Program Candidate Projects: CRRC Ratings

4/14/2022

Application ID	Jurisdiction	Project Title	CRRC Rating	CRRC Rank	Total Project Cost	Requested Amount
LDN-023	Loudoun Co	Route 7 Corridor ITS Implementation Program	2064.26	1	\$ 3,777,000	\$ 2,500,000
LDN-025	Loudoun Co	Route 7 Improvements: Route 9 to Dulles Greenway	110.79	2	\$ 130,992,500	\$ 20,000,000
FFX-126	Fairfax Co	Fairfax County Parkway Widening: Nomes Court to Route 123	105.22	3	\$ 115,035,882	\$ 108,000,000
PWC-035	Prince William Co	Old Centreville Road Widening: Fairfax County Line to Route 28*	104.72	4	\$ 96,000,000	\$ 96,000,000
PWC-028	Prince William Co	University Boulevard Extension: Devlin Road to Wellington Road	88.43	5	\$ 100,000,000	\$ 53,000,000
PWC-027	Prince William Co	Van Buren Road North Extension: Route 234 to Cardinal Drive	70.77	6	\$ 82,000,000	\$ 80,000,000
MAN-002	City of Manassas	Liberia Avenue 3rd Lane Eastbound: Route 28 to Euclid Avenue	69.11	7	\$ 8,851,639	\$ 8,851,639
PWC-036	Prince William Co	Old Bridge Road Widening: Colby Drive to Minnieville Road	64.48	8	\$ 25,000,000	\$ 25,000,000
FFX-124	Fairfax Co	8 New Battery Electric Buses - Fairfax Connector Buses for Tysons to Franconia Service	48.88	9	\$ 10,000,000	\$ 10,000,000
PWC-029	Prince William Co	Devlin Road (South) Widening: Linton Hall Road to University Boulevard	28.99	10	\$ 40,000,000	\$ 35,000,000
FFX-131	Fairfax Co	Richmond Highway Widening From Mt. Vernon Memorial Highway/Jeff Todd Way to Sherwood Hall Lane	21.95	11	\$ 415,000,000	\$ 60,207,038
HND-005	Town of Herndon	Herndon Parkway Improvements at Worldgate Drive Extension	17.94	12	\$ 6,536,000	\$ 4,581,000
LDN-024	Loudoun Co	Ryan Road Widening (Phase 2): Evergreen Mills Road to Beaverdam Drive	17.50	13	\$ 31,500,000	\$ 16,000,000
PWC-031	Prince William Co	Construct Interchange at Prince William Parkway and Minnieville Road	13.55	14	\$ 70,000,000	\$ 67,500,000
PWC-030	Prince William Co	Route 1 at Route 123 Interchange	7.37	15	\$ 68,000,000	\$ 61,200,000
LDN-028	Loudoun Co	Loudoun County Parkway Interchange at US 50	6.87	16	\$ 181,152,680	\$ 35,250,000
FFX-128	Fairfax Co	Richmond Highway (Route 1) BRT	5.97	17	\$ 730,000,000	\$ 80,000,000
FFX-125	Fairfax Co	Seven Corners Ring Road Improvements: Arlington Boulevard (Route 50) Westbound Ramp to Castle Place/Sleepy Hollow Road	5.13	18	\$ 94,800,000	\$ 94,800,000
FFX-121	Fairfax Co	Soapstone Drive Extension: Sunset Hills Road to Sunrise Valley Drive	4.65	19	\$ 235,000,000	\$ 73,793,037
PWC-037	Prince William Co	Neabsco Road Improvements - Neabsco Road Widening: Route 1 to Daniel Ludwig Drive	3.85	20	\$ 26,500,000	\$ 26,500,000
FFX-119	Fairfax Co	Frontier Drive Extension and Intersection Improvements	3.79	21	\$ 180,200,000	\$ 145,200,000
ALX-018	City of Alexandria	West End Transitway Phase 1b: South Van Dorn Street and Bridge Design	2.77	22	\$ 40,999,440	\$ 5,000,000
LEE-010	Town of Leesburg	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	1.83	23	\$ 185,074,950	\$ 13,283,839
ARL-021	Arlington Co	Ballston-MU Metrorail Station West Entrance	1.37	24	\$ 140,000,000	\$ 80,000,000
ALX-020	City of Alexandria	Alexandria Bike and Pedestrian Trails Construction and Reconstruction: Holmes Run Trail - Dora Kelly Fair-weather Crossing Bridge	0.20	25	\$ 5,500,000	\$ 5,000,000
CFC-008	City of Falls Church	North Washington Street Multimodal Improvements Project: Great Falls Street to Gresham Place	0.15	26	\$ 22,500,000	\$ 22,500,000

* For consistency in analyses, this project was analyzed without the NVTa-funded RT28 Corridor Improvements (RT28 Bypass) project in the future no-build and build networks.

Northern Virginia Transportation Authority

FY2022-27 Six Year Program Candidate Projects: TransAction Ratings

4/14/2022

Application IDProject Name		Performance Measures										TransAction Rating	TransAction Rating Rank
		Auto PHD Reduction (A1)	Transit PHD Reduction (A2)	Congestion Duration Reduction (B1)	Growth in PMT in Dedicated ROW (B2)	Growth in Total Access (C1)	Growth in Total EEA Access (C2)	Ped-Bike-Transit Environment (D1)	Safety Points (E1)	Emissions Reduction (F1)	Surge PHT Increase (G1)		
Weights		10%	10%	10%	10%	10%	10%	15%	10%	10%	5%	100%	
FFX-126	Fairfax County Parkway Widening (Nomes Court to Route 123)	100.00	25.64	100.00	0.00	100.00	71.35	1.20	46.15	100.00	34.20	56.20	1
FFX-128	Richmond Highway (Route 1) Bus Rapid Transit	24.30	100.00	0.00	100.00	17.73	53.14	29.04	61.54	23.58	42.20	44.50	2
FFX-131	Richmond Highway Widening From Route 235 North to Route 235 South	41.12	36.69	34.33	0.00	36.73	61.33	16.13	92.31	34.41	37.39	37.98	3
PWC-035	Old Centreville Road Widening: Fairfax County Line to Route 28	54.77	17.99	48.72	0.00	69.83	91.48	4.52	30.77	26.01	30.20	36.15	4
LDN-025	Route 7 Improvements	86.05	2.83	87.83	0.00	17.44	0.00	2.42	38.46	68.86	56.16	33.32	5
ALX-018	West End Transitway Phase 1b	0.05	4.82	0.00	2.52	77.65	100.00	45.06	30.77	0.00	47.86	30.73	6
PWC-028	University Boulevard Extension: Devlin Road to Wellington Road	51.12	3.12	49.98	0.00	23.79	19.22	5.05	46.15	48.83	44.68	27.21	7
ARL-021	Ballston-MU Metrorail Station West Entrance	0.00	13.03	0.00	14.70	9.65	48.07	100.00	23.08	0.00	4.55	26.08	8
LDN-023	Northern Virginia ITS/ICM Improvements	67.31	0.00	25.44	0.00	0.00	0.00	2.97	69.23	23.16	22.73	20.10	9
FFX-121	Soapstone Drive Extension	3.80	16.15	27.16	3.11	2.80	0.00	34.77	61.54	4.19	51.11	19.65	10
LEE-010	Interchange Improvements at Route 15 Leesburg Bypass and Edwards Ferry Road	0.64	15.86	0.00	0.00	1.08	7.00	14.12	100.00	2.16	63.61	17.97	11
HND-005	Herndon Parkway Improvements at Worldgate Drive Extension	0.54	0.00	17.49	0.00	0.00	0.00	13.53	76.92	35.36	49.09	17.52	12
PWC-027	Van Buren Road North	30.80	6.66	2.99	0.00	7.94	16.56	6.69	46.15	23.12	54.78	17.16	13
FFX-124	Connector Buses (8 New) - Fairfax Connector Buses for Tysons to Franconia Service	0.00	33.29	35.16	10.60	18.94	32.58	0.00	7.69	0.00	43.34	15.99	14
CFC-008	North Washington Street Multimodal Improvements Project	0.03	0.00	0.00	0.00	0.00	0.00	36.78	69.23	0.00	40.94	14.49	15
PWC-031	Construct Interchange at Prince William Parkway and Minnieville Road	4.40	19.69	0.78	0.00	0.00	3.70	6.57	76.92	0.00	44.37	13.75	16
LDN-028	Loudoun County Parkway Interchange at US 50	6.70	14.59	0.17	0.00	14.00	3.40	4.25	61.54	4.78	32.79	12.80	17
PWC-036	Old Bridge Road Widening: Colby Drive to Minnieville Road	7.33	14.59	8.16	0.00	9.18	8.46	4.09	38.46	7.88	40.18	12.03	18
PWC-030	Route 1 at Route 123 Interchange	2.05	3.54	0.00	0.00	13.47	21.36	5.99	30.77	2.76	52.32	10.91	19
LDN-024	Ryan Road Widening (Phase 2)	2.20	2.12	0.40	0.00	0.10	1.86	2.33	53.85	2.11	53.31	9.28	20
PWC-029	Devlin Road Widening: Linton Hall Road to University Boulevard	6.45	0.28	7.95	0.00	7.32	0.00	3.94	30.77	8.35	46.82	9.04	21
FFX-125	Seven Corners Ring Road Improvements	3.18	3.40	0.41	0.00	0.00	2.58	11.19	38.46	3.57	39.83	8.83	22
FFX-119	Frontier Drive Extension and Intersection Improvements	3.76	2.27	2.41	0.00	1.39	6.61	8.46	30.77	1.08	47.36	8.46	23
MAN-002	Liberia Avenue 3rd Lane Eastbound	2.49	2.83	3.54	0.00	3.36	6.39	6.76	30.77	0.75	35.22	7.79	24
ALX-020	Alexandria Bike and Pedestrian Trails Construction and Reconstruction	0.01	0.00	0.00	0.00	0.10	0.20	12.36	23.08	0.01	43.10	6.35	25
PWC-037	Neabsco Road Improvements	0.00	6.80	0.00	0.00	0.00	1.28	0.00	23.08	0.00	0.00	3.12	26