



Construct Interchange at Route 234 and Brentsville Road

Project Description



This project consists of constructing an interchange at the intersection of Route 234 (Prince William Parkway/Dumfries Road) and Brentsville Road. The project will include the construction of a bridge to grade separate the intersection of Prince William Parkway and Brentsville Road. The project will convert the intersection of Prince William Parkway at Bradley Cemetery Way to a continuous green-T intersection, and will include the realigning of Brentsville Road to provide a through roadway to Dumfries Road. The new bridge will provide free-flow movements and will eliminate delay for southbound Prince William Parkway (Rt. 234) to eastbound Prince William Parkway (Rt. 294), as well as westbound Prince William Parkway (Rt. 294) to southbound Dumfries Road (Rt. 234). At the continuous Green-T intersection on Prince William Parkway (Rt. 294) and Bradley Cemetery Way, the eastbound direction will be free-flowing, which allows additional green time to be provided to other movements. Brentsville Road will be rerouted to align with the intersection of Prince William Parkway and Dumfries Road and will operate under a three-phase signal control. Funding requested for this application will cover all phases of the project. This intersection was reviewed under the VDOT Strategically Targeted Affordable Roadway Solutions (STARS) program, which is used to develop comprehensive, innovative transportation solutions to improve congestion and solve traffic and safety challenges in the State of Virginia. VDOT has invested \$400,000 in studying the Prince William Parkway Corridor for potential improvements to major intersections.

Reference Number: 2018-034-0
TransAction ID: 283
Submitting Jurisdiction/Agency: Prince William County
Location: Intersection of Route 234 and Brentsville Road
Requested NVTA Funds: \$54,900,000
Total Cost to Complete Project: \$54,900,000

Project Location



Project Milestones

	Before FY2018	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	After FY2023
Design, Engineering, Environmental Work			X	X	X			
Right of Way Acquisition					X	X	X	
Construction						X	X	X

Project Funding

	Requested NVTA Funds	Other Funding Sources	Total Cost by Phase
Design, Engineering, Environmental Work	\$6,400,000		\$6,400,000
Right of Way Acquisition	\$1,400,000		\$1,400,000
Construction	\$47,100,000		\$47,100,000
TOTAL:	\$54,900,000		\$54,900,000

Project Analysis Highlights

Congestion Reduction Relative to Cost Ratio (Total Cost in \$1000's):	13.77
Congestion Reduction Relative to Cost Ratio Rank (Total Cost in \$1000's):	36
TransAction Project Rating:	67.96
TransAction Project Rating Rank:	29

Note: The project analysis above was completed by NVTA staff using data and information from the project application and analyses of the region's transportation network.

Regional Impacts

- Reduce congestion and improve travel times
- Provide long-term operational improvements to Route 234
- Provide improved safety and operations

Note: The regional impacts listed above are a summary of what was submitted in the project application NVTA staff received from the jurisdiction or agency that has applied for funding.