

Presentation for County Board, February 27, 2018 – Regular Hearing

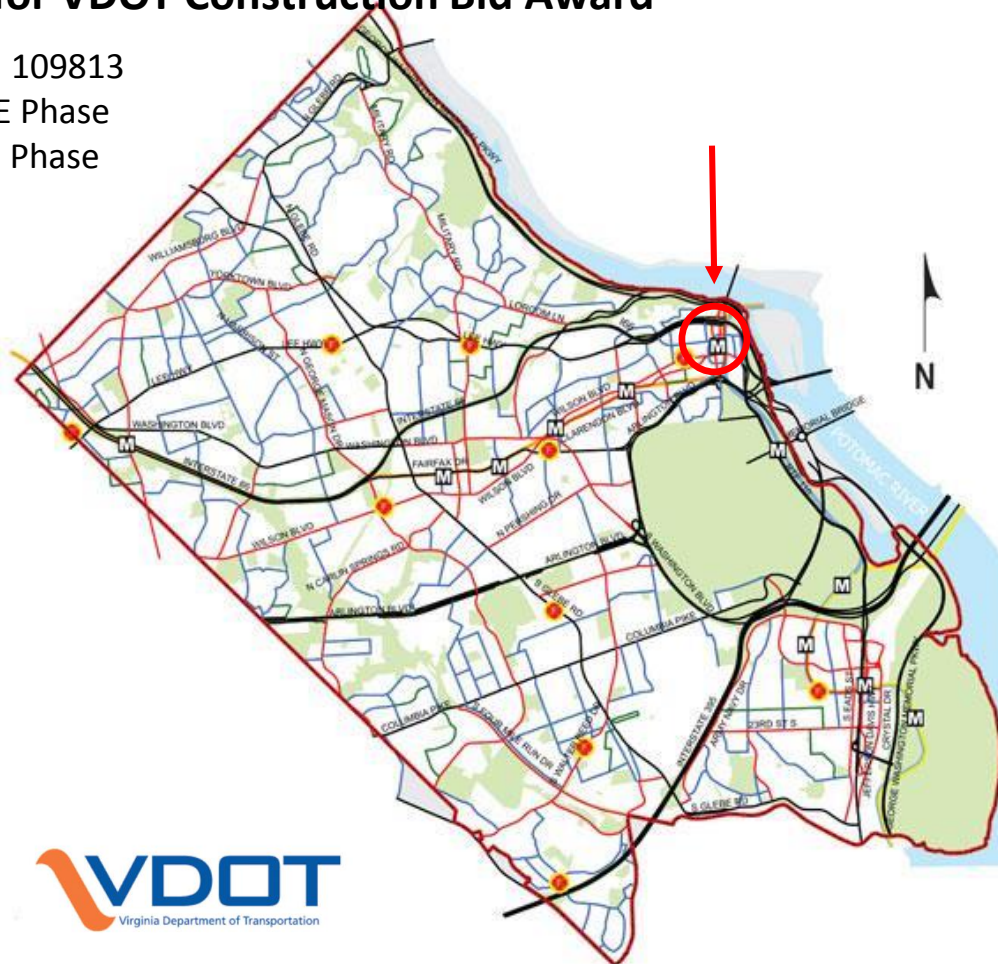
N. Lynn Street Esplanade and Custis Trail Improvements

Funding Request for VDOT Construction Bid Award

UPC Design 70762 / CN 109813

Locally Administered PE Phase

VDOT Administered CN Phase

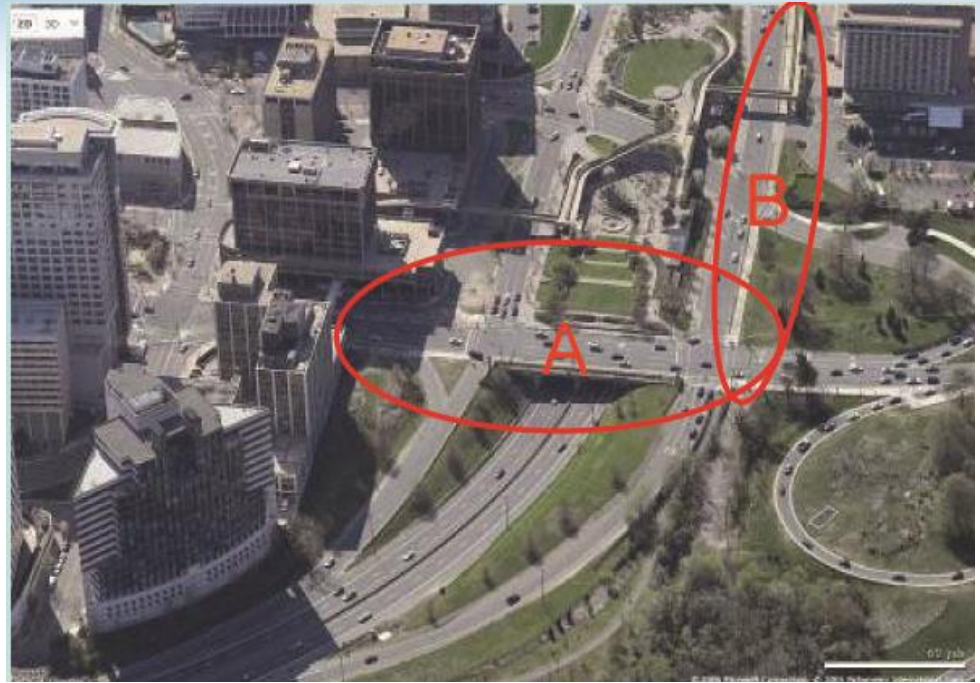


Project Overview

This is a pedestrian and bicycle safety, traffic management and street beautification initiative located in one of the busiest areas in Arlington.

The project includes the Lee Highway and N. Lynn Street Intersection and will provide significant improvements for the over 600,000 annual combined bikes and walkers using the Custis Trail and over 1.8 million combined bikes and walkers going between Rosslyn and Georgetown.

The project incorporates findings from the 1999 Esplanade Study, the 2003 Rosslyn Circle Safety Study and the 2006 Lynn Street Esplanade Design Study.

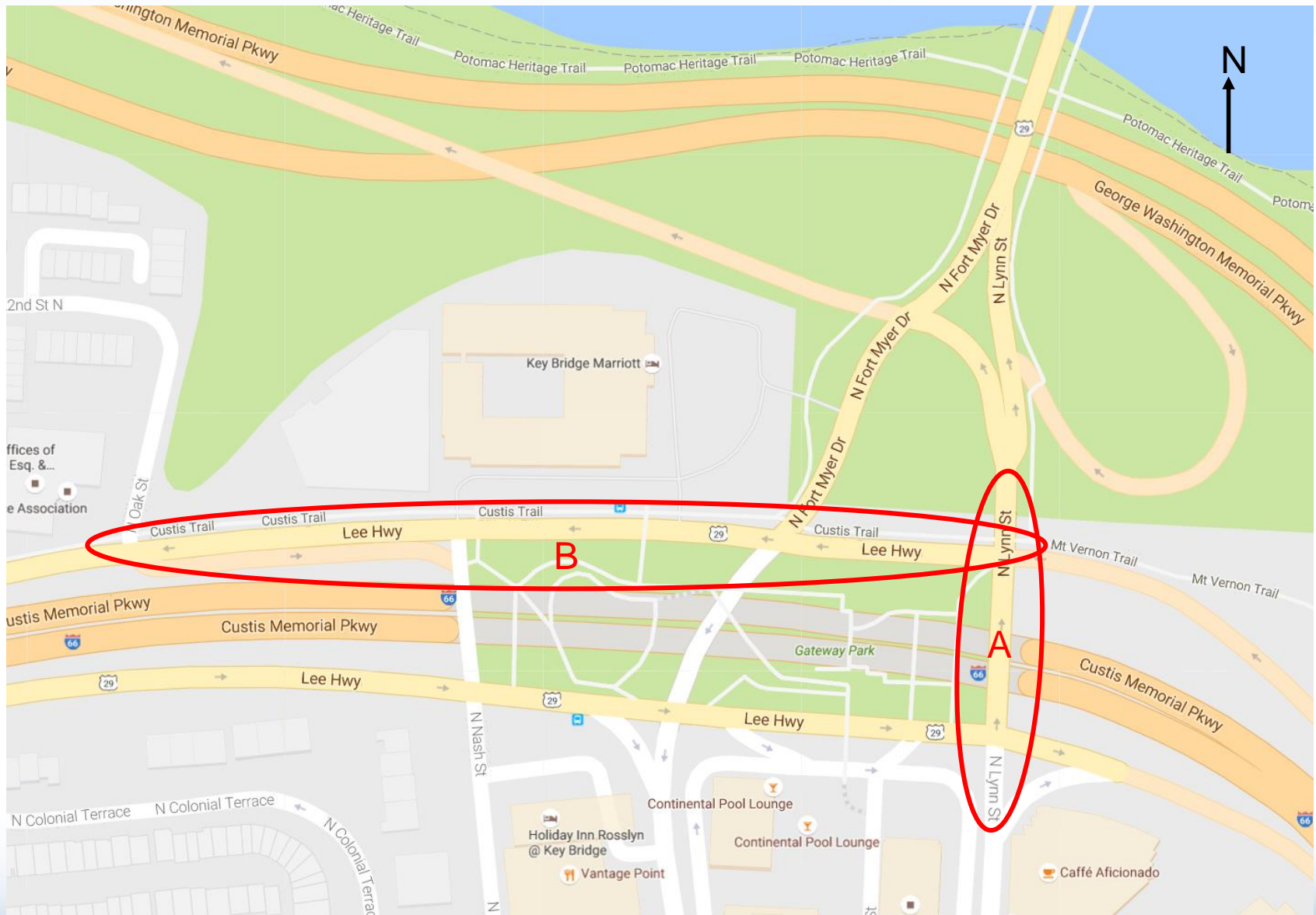


- (A) Lynn Street Esplanade: North Lynn Street from eastbound Lee Highway to westbound Lee Highway.
- (B) Custis Trail: Westbound Lee Highway from N. Lynn Street to N. Oak Street.

Project Location:

(A) Lynn Street Esplanade: North Lynn St. from eastbound Lee Highway to westbound Lee Highway.

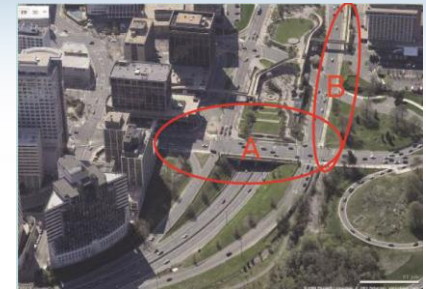
(B) Custis Trail: westbound Lee Highway from N. Lynn Street to N. Oak Street.



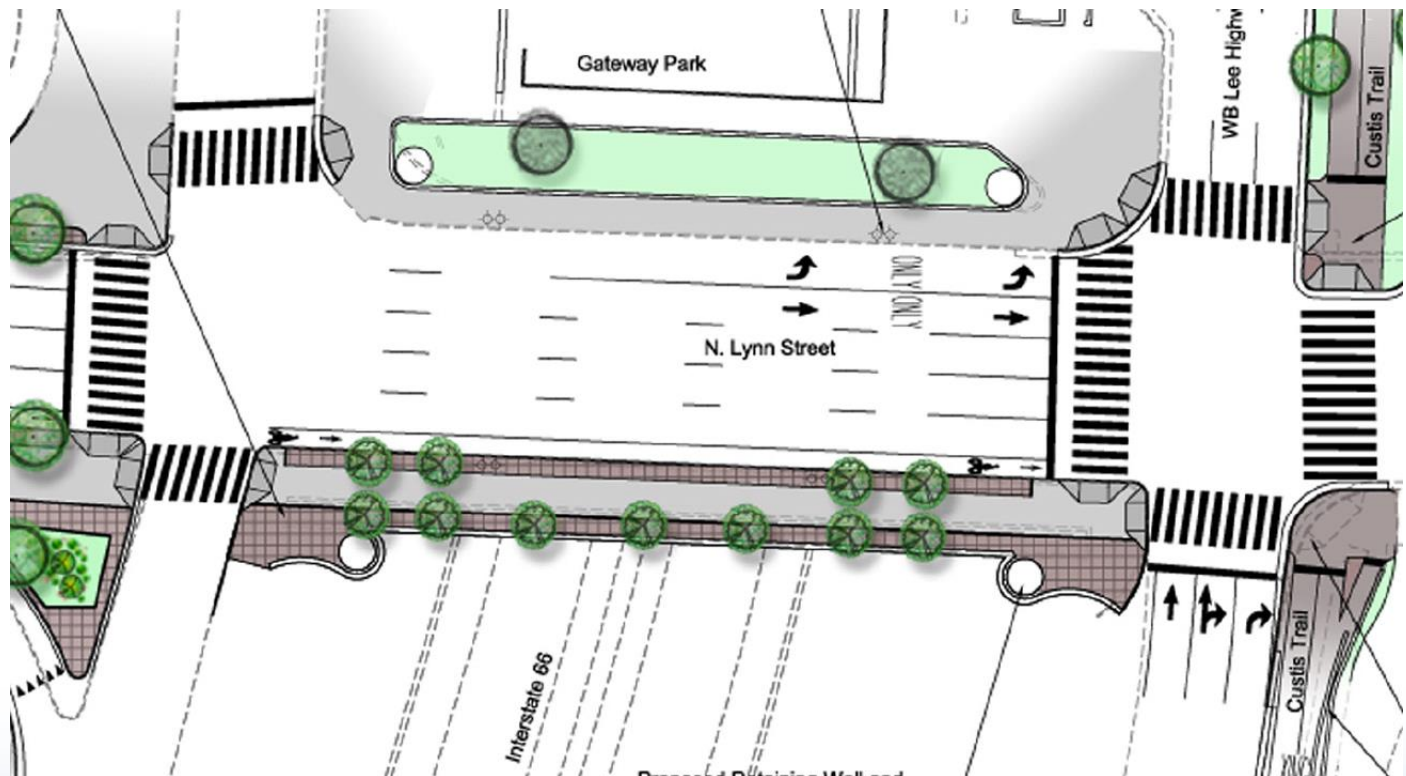
The Lynn Street Esplanade (A)

Project includes:

- Widened sidewalks and larger pedestrian and bike waiting areas
- 11' traffic lanes
- Upgraded traffic signals and new signage
- On-street bike lane on Lynn Street
- Upgraded street lights
- “Corridor of Light” public art elements at the four corners of the I-66 bridge
- Custom fencing
- Landscaping



(A) Lynn Street Esplanade
(B) Custis Trail



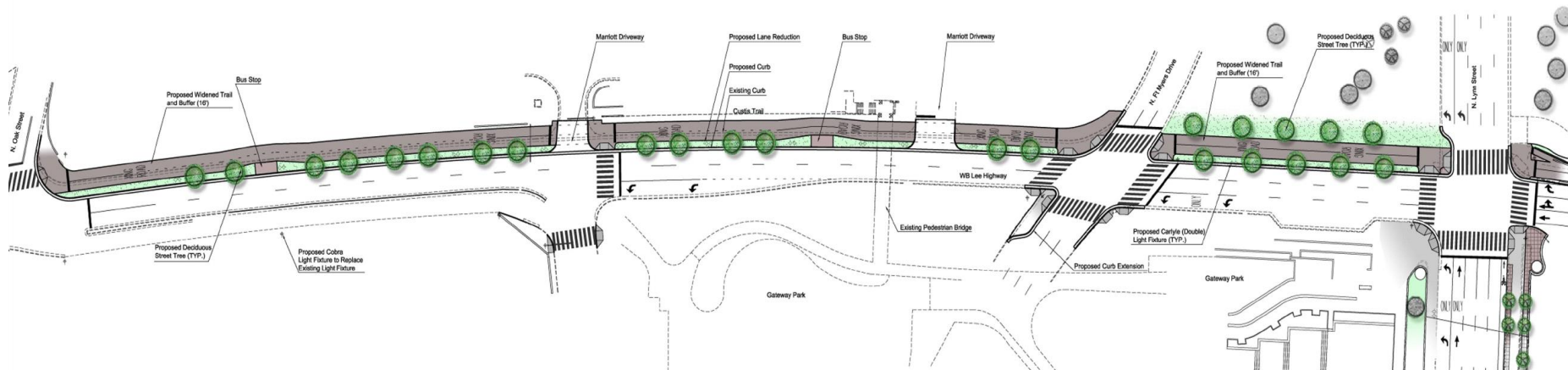
Custis Trail Improvements (B)

Project includes:

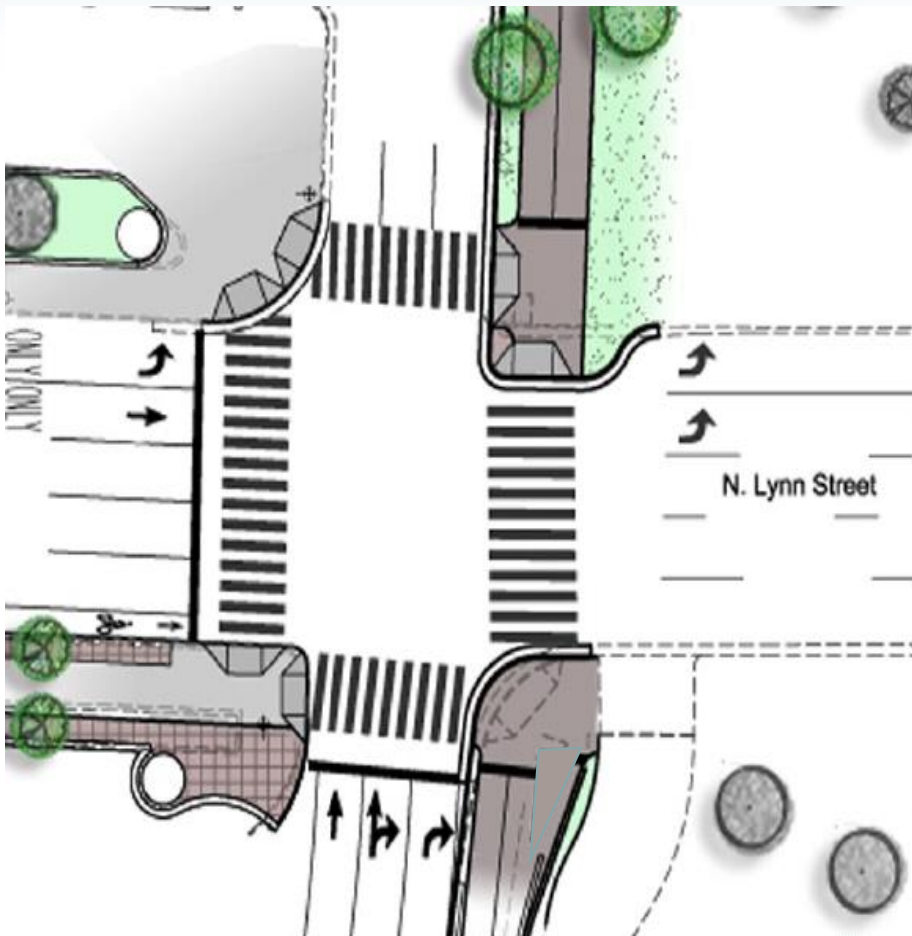
- Bicycle and pedestrian facility upgrades
- Intersection improvements at Lee Highway and N. Lynn Street
- Trail widening to 16'
- Increased trail separation from traffic
- Westbound lane reduction from Ft. Myer Drive to N. Oak Street
- Curb extensions and wider curb ramps
- New traffic and dedicated bike signals
- New streetlights on both sides of westbound Lee Highway



(A) Lynn Street Esplanade
(B) Custis Trail



Custis Trail at N. Lynn Street (B)



- Reduced crossing distances
- New traffic and trail signals
- Larger trail queuing areas
- Barrier removed for Improved visibility of trail users
- Tighter corners to slow traffic in pedestrian areas

Transfer to VDOT for Construction Phase

December 2016 – County Board approves the transfer of construction phase to VDOT. The County and VDOT see advantages to this change:

- The VDOT Procurement System (Falcon) has a large pool of contractors pre-qualified for projects of this size to better ensure a competitive bid.
- All work is on state and interstate highway systems. VDOT's direct Construction Administration (for this type of project) will simplify Construction Administration and Inspections.
- The transfer was intended to speed up the project timeline.
- The transfer freed up County engineering, purchasing and construction staff to work on other high priority projects.

Due to the amount of revisions required to load the plans and bid documents into the Falcon System and poor bidder response in the 1st advertisement, there was a 1 year extension of the project timeline.

The other advantages listed above appear to still benefit Arlington and the final delivery of the project.

Proposed Funding Increase

The \$1,363,502 increase in the construction phase cost is associated with four significant changes:

- Construction costs for materials and labor have increased significantly since the funding agreement was approved in 2016. Additionally cost of working in a congested urban environment may have been under estimated.
- Per VDOT's request, design changes were made to signal plans, traffic maintenance plans and to other sheets, specifications and bid items.
- Modifying the plans and bid package to work within the VDOT Falcon System required additional changes that impacted the bid costs and the project schedule.
- The estimated duration of construction was extended as part of changes to the Maintenance of Traffic plans, increasing project costs.

Summary of VDOT Construction Phase Cost Increase Dec 2016 - Jan 2018

2018 VDOT Costs Based on Accepted Low Bid - Construction & Admin

Ardent Bid - General Construction	\$7,067,600.00
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Ardent 10% Contingency	\$706,760.00
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VDOT Const. Engineering & Inspection (CEI)	\$1,299,142.00
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Incentive / Disincentive per Contract	\$240,000.00
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Total	\$9,313,502.00
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2016 Approved Funding	\$7,950,000.00
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Additional Funds Required	\$1,363,502.00
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2016 Appendix A – Construction Phase Costs (Current Agreement)

Project Cost and Reimbursement				
Phase	Project Allocations	Funds type (Choose from drop down box)	Local % Participation for Funds Type	Local Share Amount
Preliminary Engineering				
Total PE				
Right of Way & Utilities				
Total RW				
Construction	\$4,438,950	Revenue Sharing	50.00%	\$2,219,475
	\$3,511,050	Local Funds	100.00%	\$3,511,050
Total CN	\$7,950,000			\$5,730,525
Total Estimated Cost	\$7,950,000			\$5,730,525
Total Maximum Reimbursement / Payment by Locality to VDOT				\$5,730,525
Total Maximum Reimbursement by VDOT to Locality (Less Local Share and VDOT Expenditures)				

Proposed 2018 Appendix A – Construction Phase Costs

Project Cost				
Phase	Project Allocations	Funds type (Choose from drop down box)	Local % Participation for Funds Type	Local Share Amount
Preliminary Engineering				
Total PE				
Right of Way & Utilities				
Total RW				
Construction	\$4,438,950	Revenue Sharing	50%	\$2,219,475
	\$4,874,552	Local Funds	100%	\$4,874,552
Total CN	\$9,313,502			\$7,094,027
Total Estimated Cost	\$9,313,502			\$7,094,027
Total Maximum Reimbursement / Payment by Locality to VDOT				\$7,094,027

Proposed Construction Phase Cost Increase:

\$1,363,502

VDOT Project Schedule:

- Advertisement Date:* October 10, 2017
- Bid Opening Date:* January 24, 2018
- Executed Contract (Bid Date + 60 days) March 25, 2018
- NTP** (Contract Execution + 15 Days) April 4, 2018
- Total Calendar Days for Construction: 780
- Substantial Completion Date: April 4, 2020
- Contract Completion Date: May 13, 2020

End of Presentation