



I-395 Express Lanes
Northern Extension Project
Alexandria City Council
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Project Background

- Comprehensive Agreement executed in 2012 with 95 Express Lanes, LLC (95 Express) for 95 Express Lanes contemplated potential future development of the Northern Express Lanes in the I-395 corridor
 - In November 2015, VDOT and 95 Express signed a Development Framework Agreement outlining roles and responsibilities
 - VDOT is working to finalize the scope
- The toll project will provide long-term transit investment through an annual transit payment from toll revenues (at least \$15 million).
- Improvements to be built largely within VDOT's right of way





Atlantic Gateway: Partnering to Unlock the I-95 Corridor (FASTLANE/TIGER Grants)

Virginia selected to receive \$165 million dollar federal grant to improve more than 50 miles of the I-95/I-395 Corridor from Fredericksburg to the Pentagon.

- Extending I-95/I-395 Express Lanes
- North to the Pentagon (~ 7 miles)
- South to Fredericksburg (~ 10 miles)
- Improving commuter rail service on VRE and Amtrak
- Third track construction in Fairfax County (~ 8 miles)
- Improvements to Long Bridge (Potomac Crossing) (~ 6 miles)
- Increases Capacity on Interstate General Purpose Lanes
- Eliminates bottleneck on I-395 at Duke Street
- Adds new lanes across Rappahannock
- Expanding bus service and commuter parking spaces in the corridor

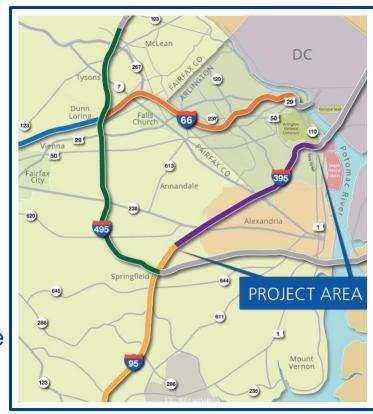






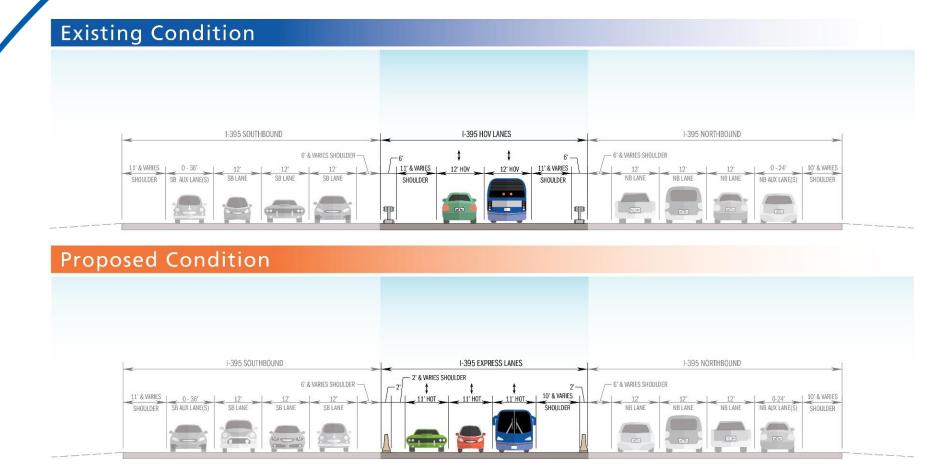
Project Scope

- Expand and convert the two existing reversible High Occupancy Vehicle (HOV) lanes on I-395 to three managed High Occupancy Toll (HOT) or Express Lanes for eight miles along I-395 from north of Edsall Road to the vicinity of Eads Street near the Pentagon
- Provide improved connections between the proposed I-395 Express Lanes and Eads Street
- Install signage, toll systems, and an Active Traffic Management System
- Provide sound walls
- Conduct a Transit/TDM Study to identify candidate projects





Typical Section





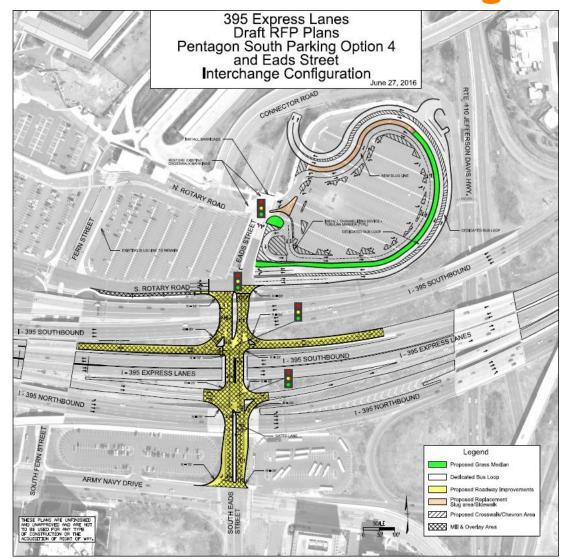
Express Lanes Access

- All existing access points to remain the same – except for Eads Street Interchange
- Capacity and operational improvements at Eads Street Interchange under evaluation
- Seminary Road South facing ramp remains limited to HOV-only at all times





Pentagon South Parking and Eads Street Interchange





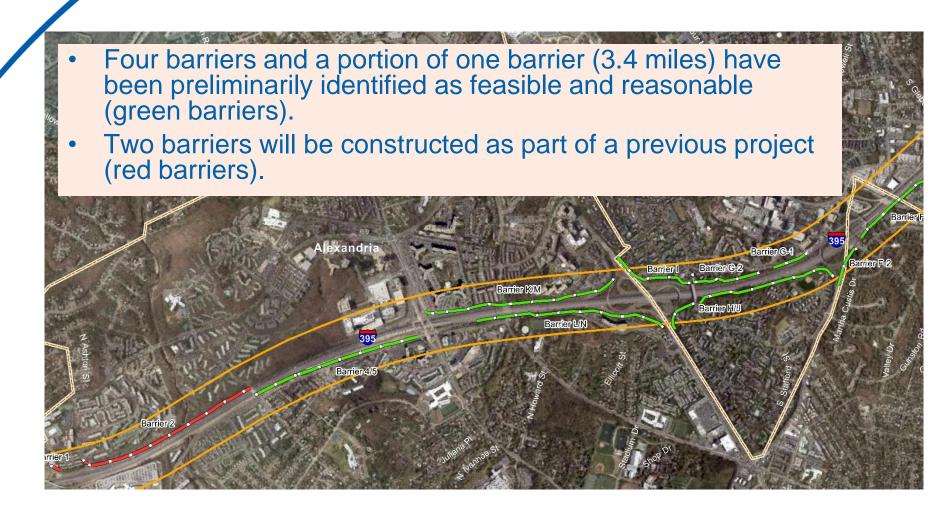
Environmental Assessment

- VDOT prepared Environmental Assessment (EA)
 - Draft Environmental Assessment available at
 <u>Virginiadot.org/395express</u> on September 12, 2016
 - Technical Studies include:
 - Traffic Analysis and Forecasting
 - Air Analysis
 - Noise Analysis
 - Indirect and Cumulative Effects
 - Cultural and Natural Resources
 - Public Information Meeting in April 2016
 - Public Hearings on October 24 and 26, 2016





Noise Barriers within Alexandria







Noise Wall Analysis and Process

Preliminary Design

- ✓ Identify noise receptors
- ✓ Perform noise measurements at representative receptors along the corridor
- ✓ Perform noise modeling

construction plans

- ✓ Identify impacts (is noise mitigation warranted?)
- ✓ Design and assess mitigation (typically noise walls)
- ✓ Present noise study results and preliminary noise wall locations at public meetings <<WE ARE HERE</p>

Final Design

sign
ers

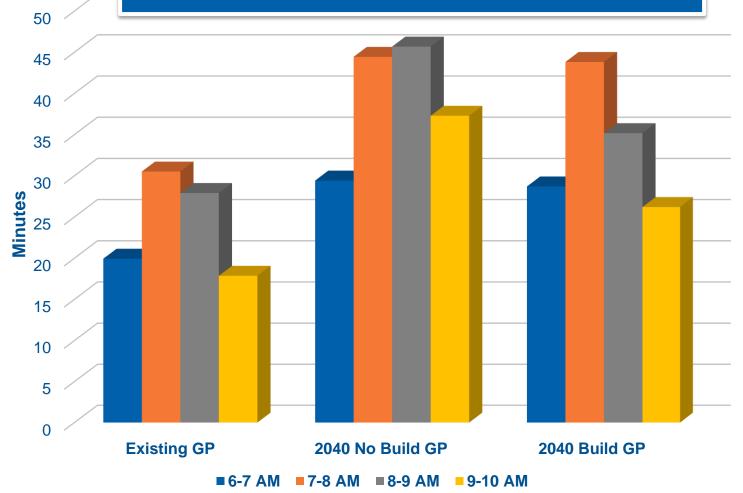


Northbound I-395 Travel Times – AM Peak

South of Edsall Rd to North of HOV Lane Terminus in DC

2040 Build Condition vs. 2040 No Build Condition:

- Travel times decrease 11 min from 8 AM to 10 AM
- Average travel time decrease of 5.7 minutes (15% reduction)



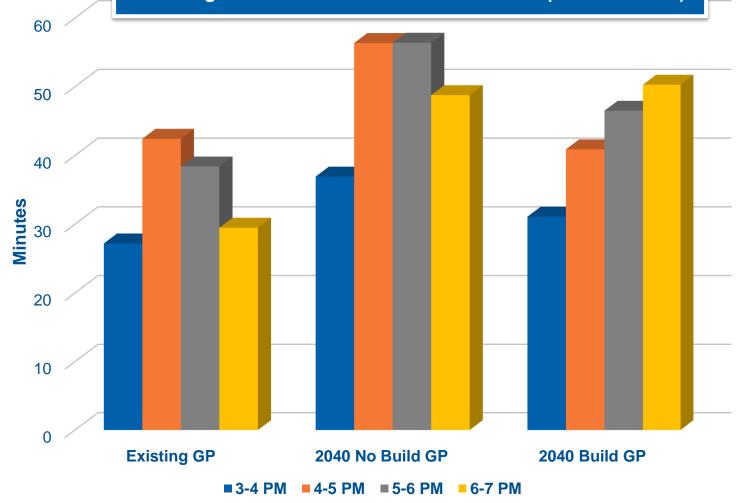


Southbound I-395 Travel Times – PM Peak

South of Edsall Rd to North of HOV Lane Terminus in DC

2040 Build Condition vs. 2040 No Build Condition:

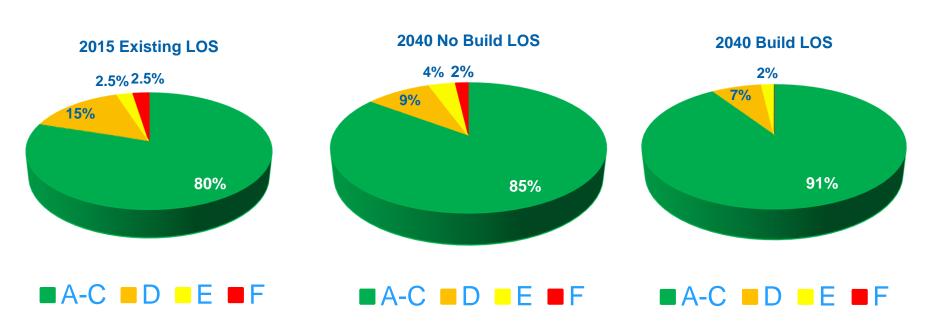
- Travel times decrease 10 16 min from 4 PM to 6 PM
- Average travel time decrease of 7.4 minutes (15% reduction)





AM Peak Hour Level of Service Study Intersections

- 55 intersections evaluated
- Overall improvement in LOS in 2040 Build Condition
 - Reduced number of intersections operating at LOS E/F
 - Eads Street Interchange Improvements eliminate several deficient intersections



Project Benefits

Move More People

- 35 50% increase in traffic volumes in HOT lanes; relieves General Purpose lanes
- Move more than 13,000 more people in PM peak (north of Glebe Rd)

Reduce Congestion

- Average 6 to 8 minute travel time reduction in General Purpose Lanes
- 15% reduction in travel times in General Purpose lanes
- Increasing capacity on I-395 reduces diversion of traffic to arterial roadways

Expand Travel Choices

- Promote HOV throughout the day (currently no incentive to HOV during off-peak)
- Allow all motorists to continue north on the HOT lanes at Turkeycock Run or enter the southbound HOT lanes exiting DC

Increase Reliability

Reduce congestion in HOT lanes before and after current HOV restricted periods



Transit/TDM Study Overview

- DRPT leading study that will identify transit services and TDM enhancements that can be funded by the Annual Transit Investment from I-395 toll revenues
- Study kicked-off in April; complete in December 2016
- DRPT coordinating study with 11 Key Stakeholders
- Public outreach including Pop-Ups, Open Houses, Presentations, Travel Behavior Survey, etc.
- Commonwealth will provide at least \$15 million annually from toll revenue for I-95/I-395 Transit & TDM initiatives
- Eligible projects will increase mobility, move more people and benefit toll payers in the I-395 corridor
- Initial, unrefined project list identifies \$11 billion in needs



Proposed Transit Improvements in Alexandria

- Improve frequency on existing DASH routes
- New DASH circulators
- Bus Rapid Transit
 - West End Transitway (Corridor C)
 - Duke Street Transitway (Corridor B)
- King Street and Van Dorn Street Metro station improvements
- Potomac Yard Metrorail Station
- New/expanded transit centers (Landmark Mall, Mark Center)
- DASH bus garage



Key Milestones

Key Milestones	Begin Dates
Public Outreach and Technical Coordination	Ongoing
Begin NEPA – Environmental Assessment	January 2016
Begin Transit/TDM Study	April 2016
Public Information Meetings	April 11 and 13, 2016
Public Hearing	October 24 and 26, 2016
Regional Long-Range Plan Decision	November 2016
Final NEPA Decision	December 2016
Final Transit/TDM Study	December 2016
Final Financial Agreement	January 2017
Begin Construction (95 Express)	Summer 2017
Project Completion (95 Express)	Summer 2019



I-395 South Widening Duke Street to Edsall Road

I-395

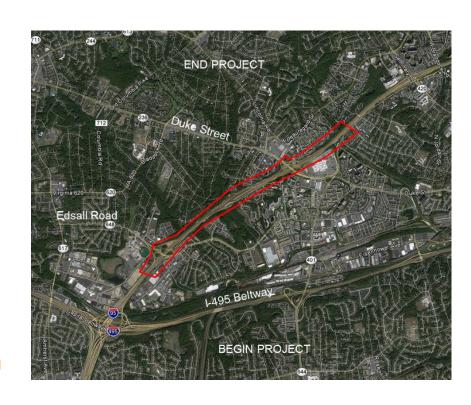
 Widen Southbound I-395 from 3 lanes to 4 lanes between Duke Street and Edsall Road

Edsall Road Interchange

 Replace existing Edsall Westbound to I-395 Southbound Loop Ramp with new signalized intersection

Duke Street Interchange

 Replace existing I-395 Southbound to Duke Eastbound Loop Ramp with new signalized intersection







Thank you

Virginiadot.org/395express
For more information
and to sign up for updates