MOUNT VERNON-LEE CHAMBER OF COMMERCE MEETING

THURSDAY, FEBRUARY 14, 2019
BELLE HAVEN COUNTRY CLUB
6023 FORT HUNT ROAD, ALEXANDRIA, VIRGINIA 22307

Dan Reinhard, PE, VDOT - Design Project Manager
Andy Beacher, PE, VDOT – Preliminary Engineering Manager
Ajmal “AJ” Hamidi, PE, FCDOT - Transportation Planner
John McDowell, PE, RK&K - Director, Transportation

UPC 107187 Richmond Highway Corridor Improvements
Today’s Meeting

- Project Coordination and Overview
- Roadway Improvements
- Potential Pedestrian Underpasses
- Stormwater Management
- Environmental Assessment
- Noise Analysis
- Right-of-Way Acquisition
- Schedule and Funding
- GIS Web Application
- Comments and Questions
Embark Richmond Highway is an initiative focused on creating a multimodal future for Richmond Highway Corridor where residents, workers, and visitors can walk, bike, or drive to the places they want to go. The components of the Embark Richmond Highway project include:

- Fairfax County-led components of EMBARK are providing the *vision* for the design of the widening of Richmond Highway from Jeff Todd Way to Napper Road.
- Fairfax County Board of Supervisors approved the Embark Comprehensive Plan Amendment on March 20, 2018.
- Coordination between state and local agencies occurs regularly at project progress meetings and during informal discussions and mini-workshops.
- VDOT maintains Richmond Highway and makes final decisions considering the positions of its partners and the public.
- Fairfax County Board of Supervisors will be asked to provide endorsement of this project.
Project Overview

- Widening of Richmond Highway (US Route 1) from four lanes to six lanes
  - Jeff Todd Way to Napper Road
  - Approximately 3 miles
- Safety improvements
- Congestion relief
- Intersection improvements
- Median reservation for future Fairfax County Bus Rapid Transit (BRT)
- Sidewalks and separate bicycle paths on both sides of road
- Three bridge replacements
- Potential noise walls
- Utility relocations
- Stormwater management
The intent of this exhibit is to depict the configuration of elements within the proposed right-of-way width of 178 ft. For clarity, potential landscaping is not depicted.
Intersection Improvements

Mt. Vernon Memorial Highway / Jeff Todd Way

- Six Lanes along Richmond Highway
- Allows adjustments for future BRT accommodations
- Provides exclusive right-turn lane along Mt. Vernon Memorial Highway
Intersection Improvements

Sacramento Drive / Cooper Road

- Realign Sacramento Drive to meet Cooper Road
- Single, traditional intersection
- Requires removal of several Woodlawn Center businesses
- Consistent with Fairfax County Comprehensive Plan
Intersection Improvements

Frye Road / Bestway Entrance

- Dual northbound left-turn lanes (unless signal at USPS is approved)
- Realigning Master Roofing and Siding / D.A.M. Garage entrance for candidate stormwater pond site (still under review)
Intersection Improvements

Buckman Road / Radford Avenue / Mohawk Lane

- Realign Buckman Road to Mohawk Lane via roundabout
- Realign intersection to Radford Avenue
- Cul-de-sac along Buckman Road for access
- Close Washington Avenue at Mohawk Lane with turnaround
Intersection Improvements

Russell Road / Reddick Avenue

- Realigning Reddick Avenue to align with Russell Road
- Dual left-turn lanes along Russell Road
- Single left-turn lane along Reddick Avenue
Intersection Improvements

Buckman Road / Mt. Vernon Highway

- Realign intersection 200 feet south of existing
- Dual left-turn lanes southbound to Mt. Vernon Highway
- Dual left-turn lanes from Buckman Road
- Dual right-turn lanes from Mt. Vernon Highway
- Pedestrian crossings across east, south and west legs of intersection
Potential Pedestrian Underpasses

Dogue Creek and Little Hunting Creek

- Provides crossing of Richmond Highway at separate elevation
- No pedestrian/vehicle conflicts
- Passes under road adjacent to creeks
- Ramps provided for pedestrian access
- Lighting will be included
Potential Pedestrian Underpass

Dogue Creek

Little Hunting Creek
Stormwater Management

VDOT is required by law to control and treat stormwater runoff from roadways. New, more stringent regulations took effect in July 2014, requiring more sophisticated stormwater treatment facilities, especially in a constrained urban corridor such as Richmond Highway. These regulations require ponds to be bigger and to detain more water for longer periods of time. Therefore, more and larger facilities are required for roadway projects.
Stormwater Management Detention Examples

- Bioretention
- Wet Pond
- Underground Detention

Final facility type, location and size to be determined in detailed design.
Environmental Assessment
National Environmental Policy Act

- Clean Air Act
- Clean Water Act
- Environmental Justice Executive Order
- Noise ordinances
- U.S. Department of Transportation Act of 1966; Section 4(f)
- Section 106 of the National Historic Preservation Act
- Contaminated materials and substances
- Endangered Species Act
- Coastal Zone Management Act
- Migratory Bird Treaty Act
- Protection of Wetlands Executive Order
- Patuxent Research Refuge Executive Order
- Floodplain Management Executive Order
- Federal Flood Risk Management Executive Order
- Limited English Proficiency Executive Order
- Military Construction and Appropriations Act
- State Environmental Laws
- Local Environmental Laws
A NEPA public hearing was held Oct. 29, 2018 and the comment period closed Dec. 6, 2018.

EA Document is available on the website for review.

Final Step in NEPA Process:
• Addressing Comments received
• Seeking Finding of No Significant Impact from FHWA, in early 2019.
**Required** to evaluate noise levels on federally funded projects to comply with federal law under the National Environmental Policy Act

Where project noise levels are projected to exceed established criteria, VDOT is **required to propose noise mitigation**

Sound Barriers will be constructed **only** if the people who are directly benefited vote for them

**Noise Analysis**

- Preliminary and Final
- Computer model calibrated to existing conditions
- Based on design year traffic volumes (2045)
- Loudest hour – 3 PM for Richmond Highway
Preliminary Noise Analysis

- NB Rte. 1 – Barriers 1P, 6P, 7P – 1,009’
- SB Rte. 1 – Barriers 11P, 12P – 1,004’
- Approximately 6.5% of total project length
- Aesthetic treatments may be considered
Example – Sound Barrier Voting

Only benefited receptors vote

- Yellow - Impacted and Benefited is weighted as a 5
- Blue - Benefited but not impacted is weighted as a 3
- Green – Not Benefited and not impacted – Do not vote
- Rentals – Owner and renter votes
- Voting occurs during Final Design 2019 - 2022
Right-of-Way Acquisition

- Each property impact is unique
- Further design details are needed to determine full right of way impacts
- Right of way acquisition process to begin after detailed design – anticipated in mid-2019
- Meetings with individual property owners
- Right of Way representatives will be at each public meeting
We are here - February 14, 2019

Calendar Schedule

<table>
<thead>
<tr>
<th>Environmental (NEPA)</th>
<th>Road &amp; Bridge Design</th>
<th>Right of Way &amp; Utilities</th>
<th>Construction</th>
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</thead>
<tbody>
<tr>
<td>2016</td>
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<td>2018</td>
<td>2019</td>
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<tr>
<td>NEPA Scoping</td>
<td>NEPA Studies</td>
<td>Draft EA</td>
<td>Public Hearing</td>
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<td>NEPA Studies</td>
<td>Final Design</td>
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<td>2021</td>
<td>2022</td>
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<tr>
<td>NEPA Studies</td>
<td>Prelim Design</td>
<td>Design Approval</td>
<td>Pre Ad</td>
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<td>Public Information</td>
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<td>NEPA Studies</td>
<td>NEPA Scoping</td>
<td>NEPA Studies</td>
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Milestone Activities (NEPA)
- Draft EA
- FONSI

Milestone Activities (Road & Bridge Design)
- Prelim Design
- Design Approval
- Construction
- Pre Ad

Milestone Activities (Right of Way & Utilities)
- ROW Acquisition
- Utility Relocation

Milestone Activities (Construction)
- NTP
- Project Open to Traffic 2026

Milestone Activities
- NEPA Public Hearing & Public Information Meeting #4
  - October 2018
- FHWA Finding of No Significant Impact
  - Winter 2018/19
- Design Public Hearing
  - March 26, 2019
- Begin Right of Way Acquisition
  - Summer 2019
- Begin Utility Relocation
  - Summer 2020
- Begin Construction
  - Spring 2023
- Project Open to Traffic 2026

= Milestones

We are here - February 14, 2019
## Project Estimate and Funding

<table>
<thead>
<tr>
<th>Cost Estimate* ($ in Millions)</th>
<th>Programmed Funding</th>
<th>Proposed Sources</th>
<th>Funding Sources**</th>
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<tbody>
<tr>
<td>PE $16</td>
<td>$ 1.0</td>
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<td>NVTA 70% (FY15/16)</td>
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<tr>
<td>RW/UT $163.5</td>
<td>$ 36.1</td>
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<td>RSTP (Federal)</td>
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<td>CN $192.5</td>
<td>$ 10.0</td>
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<td>Revenue Sharing</td>
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<tr>
<td>Total $372</td>
<td>$ 127.0</td>
<td>$ 194.2</td>
<td>SMART SCALE (Submitted Application 8/18) and/or Additional Sources: NVTA 70%, RSTP, Federal Grants, Developer Contrib., Local, and Other</td>
</tr>
</tbody>
</table>

|               | $ 177.8            | $ 194.2         | $ 372            |

*Cost estimates subject to refinement as project develops.

**Project is jointly funded with $128 million from the Northern Virginia Transportation Authority (NVTA).
GIS Web Site Application

Available on the project webpage www.virginiadot.org/projects/northernvirginia/Richmond_highway.asp

Opening page

Property impact information is preliminary in nature and subject to change as the design is refined.
GIS Web Site Application

Available on the project webpage www.virginiadot.org/projects/northernvirginia/Richmond_highway.asp

Intersection
level view

Property impact information is preliminary in nature and subject to change as the design is refined.
GIS Web Site Application

Available on the project webpage www.virginiadot.org/projects/northernvirginia/Richmond_highway.asp

Property view

Property impact information is preliminary in nature and subject to change as the design is refined.
How to Provide Comments

- Attend the Design Public Hearing on March 26, 2019, 6:30pm at Mount Vernon High School
  - Submit written comments on the comment sheets at the meeting
  - Provide oral comments to the court reporter

- Mail:
  - Mail written comments to VDOT, attention Dan Reinhard, P.E.
    VDOT Northern Virginia District, 4975 Alliance Drive, Fairfax, VA 22030

- Email:
  - Email your comments or questions to RichmondHighway@vdot.Virginia.gov

Please reference “Richmond Highway Corridor Improvements” in subject line of all correspondence
Questions?