

# Embark Richmond Highway

## Planning & Zoning Committee

### MVCCA

July 11, 2016



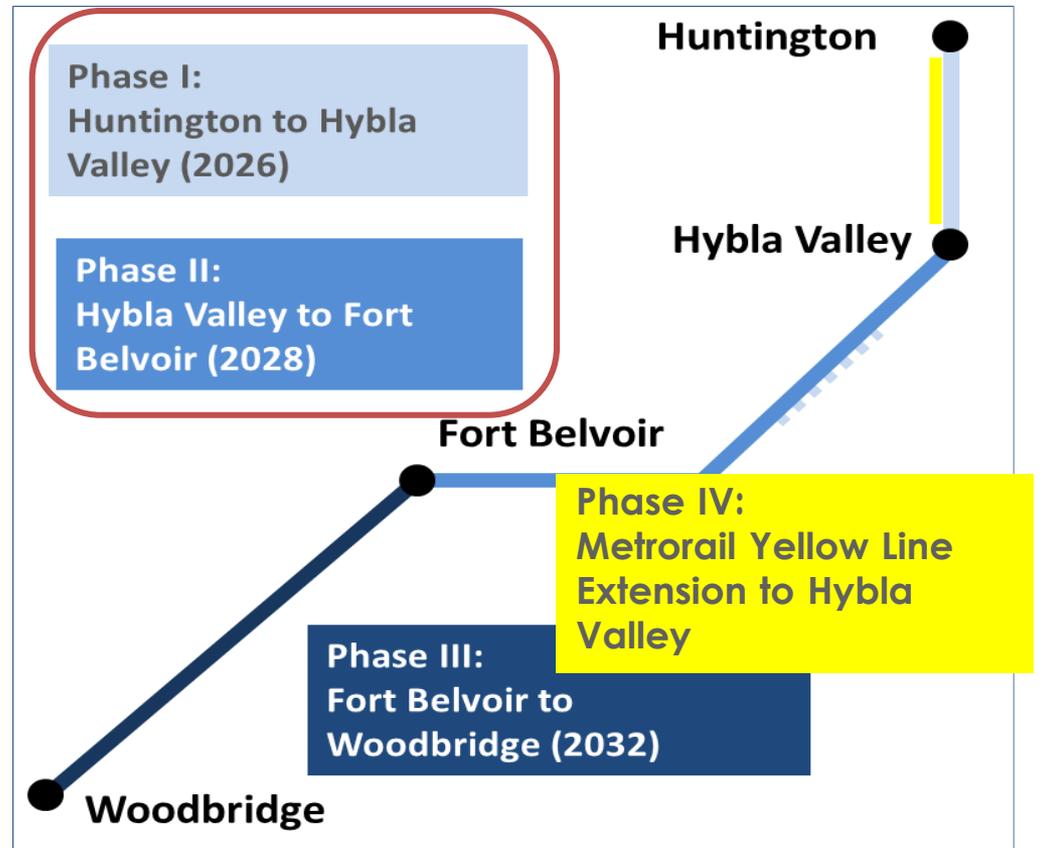
# Tonight's Presentation

- Project overview
- Timeline and current activities
- Draft Richmond Highway cross section
- Transportation analysis overview
- Draft conceptual grid of streets
- Status of the widening from Jeff Todd Way/Mount Vernon Memorial Highway to Napper Road

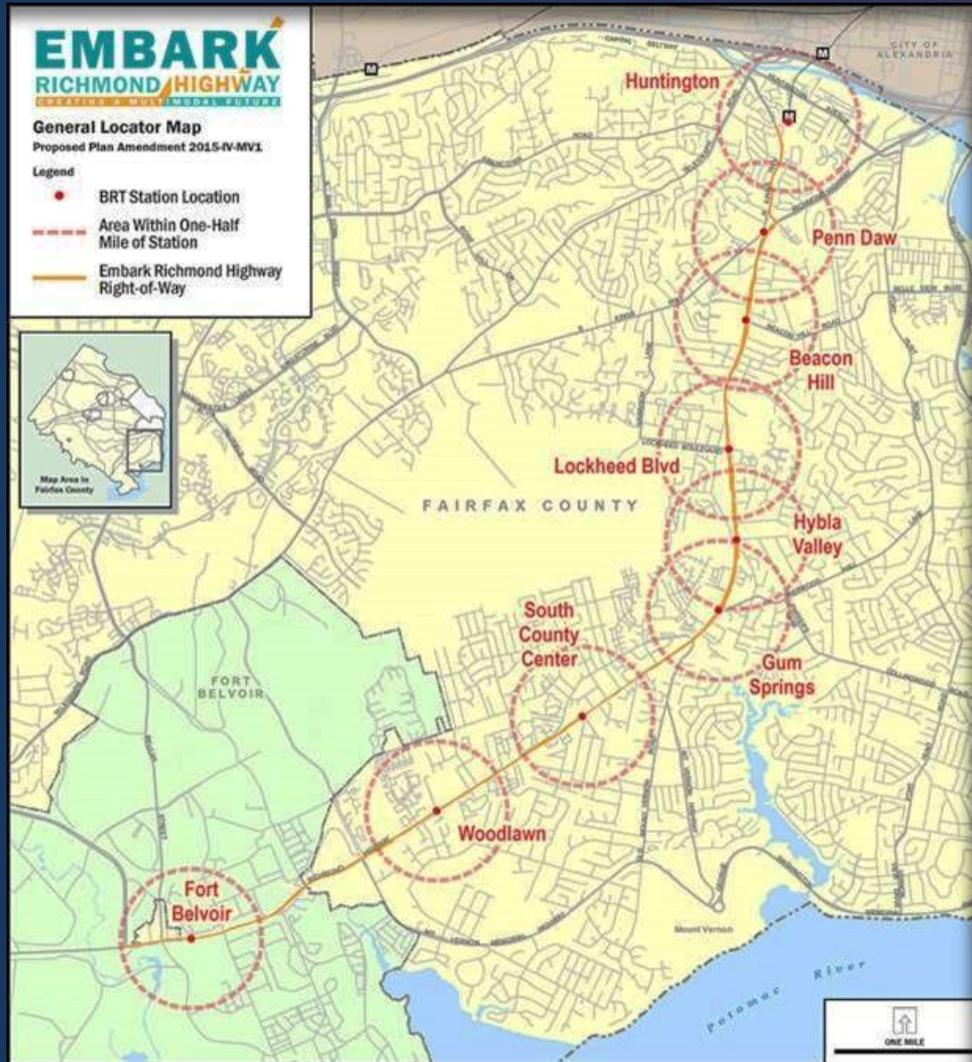
# I. PROJECT OVERVIEW

# Embark Richmond Highway

- Next step in creating a walkable, bikable, transit-oriented Richmond Hwy.
- Dependent on land use changes and funding
- Builds upon a state-led study to identify the type of transit mode:  
“Bus Rapid Transit (BRT) /Metrorail Hybrid”
  - Median running Bus Rapid Transit (BRT)
  - Metrorail extension to Hybla Valley
  - Roadway Widening
  - Bicycle and Pedestrian Facilities



# Embark Components: Huntington to Accotink



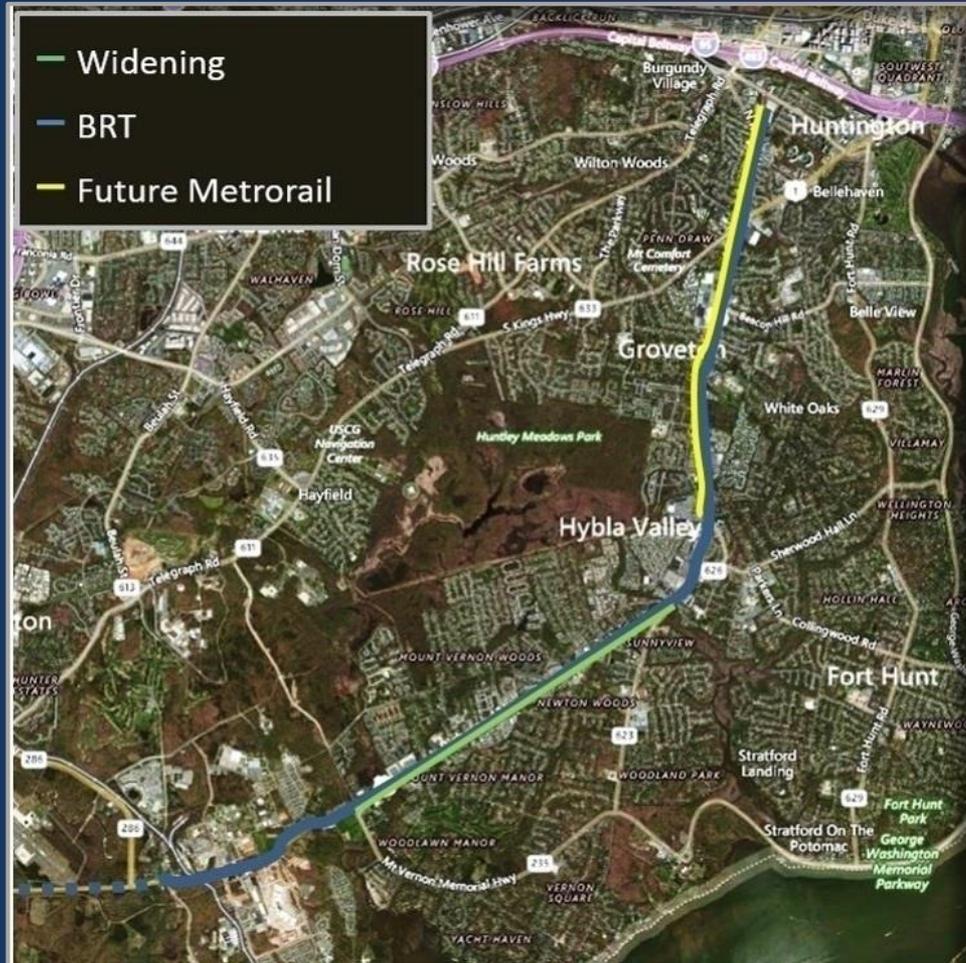
## Comprehensive Planning

- Refine transportation guidance, including planned transit modes
- Refine planned land use and urban design guidance at 9 stations in support of BRT

## Environmental work

- Supporting Bus Rapid Transit and Richmond Highway widening

# Related Activity – Bus Rapid Transit System Planning and Design

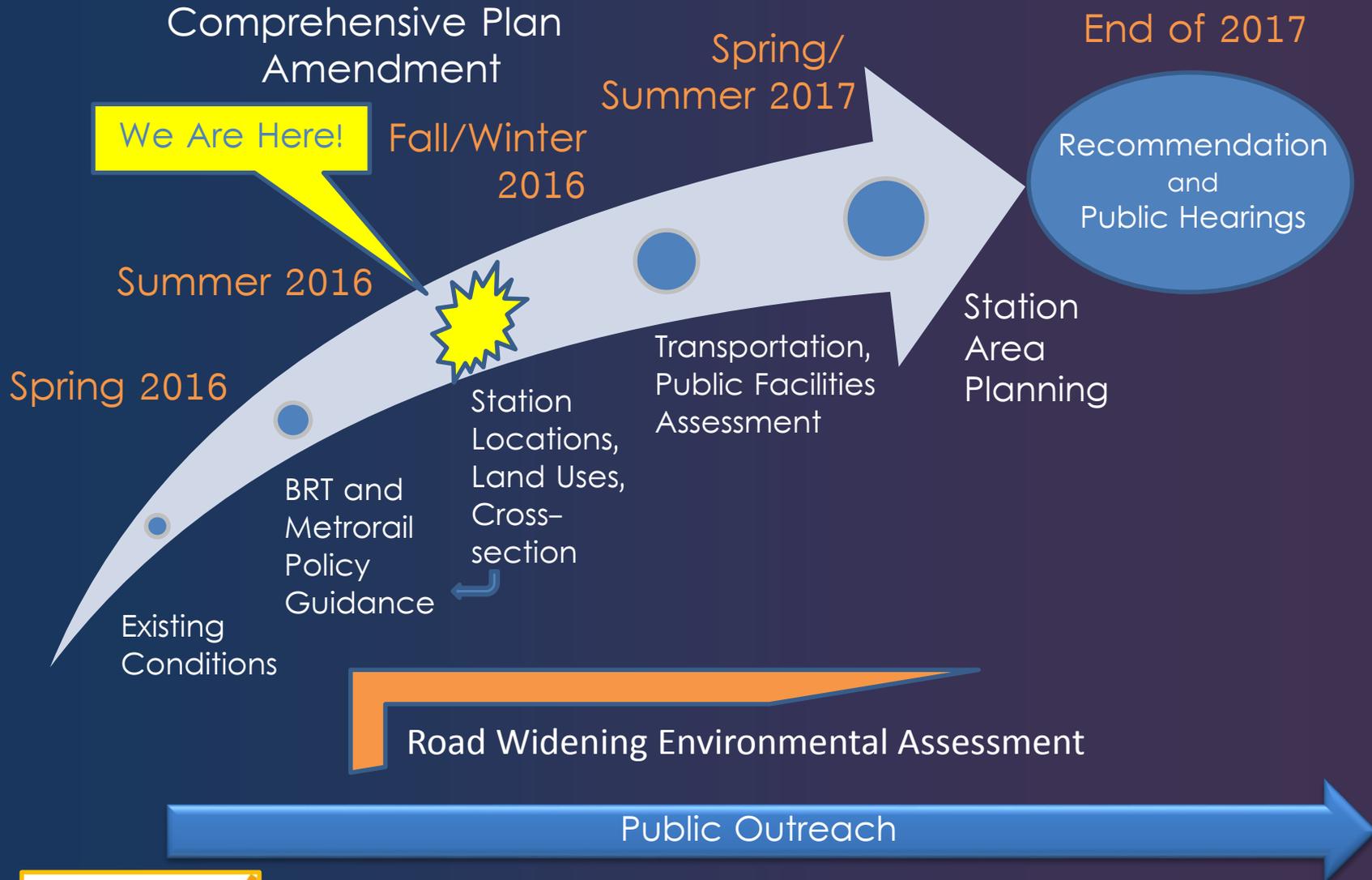


## BRT System (Huntington to Accotink)

- Approx. \$4M grant for BRT implementation awarded to County
  - From the State in FY 2016
- Currently Seeking a Project Management Consultant Team
  - Will aid County in Environmental, Design and Implementation work
  - Proposal bids received and being evaluated
- Traffic Consultant Counting Vehicle Volumes on Richmond Highway
  - Completed prior to school year ending
- Transportation Analysis to Support Comprehensive Plan Amendment
  - Consultant selected, work has begun
- Anticipated operation beyond 2028

## II. TIMELINE AND CURRENT ACTIVITIES

# General timeline through 2017



# Planned Community Meetings for Comprehensive Plan Amendment



## **Community Meeting #2** **July 25, 2016**

Guiding principles for urban design and conceptual street network; draft Richmond Highway cross section.

## **Community Meeting #4** **Spring 2017**

Draft North Kings Highway cross section; Impacts to land use alternative, including public facilities, parks and recreation, and transportation.

## **Community Meeting #6** **Fall 2017**

Overview of proposed recommendations and Comprehensive Plan guidance.

## **Community Meeting #1** **May 9, 2016**

Project overview, general BRT information, existing conditions, transit oriented development principles.

## **Community Meeting #3** **Fall 2016**

Final Richmond Highway cross-section; land use alternative.

## **Community Meeting #5** **Summer 2017**

Final North Kings Highway cross section; station area concept plans.

**December 2017** – Planning Commission public hearing

**January 2018** – Board of Supervisors public hearing

# Recent Staff Activities

1. BRT Project Management Consultant bids received and being evaluated
2. VDOT traffic counts completed
3. Staff BRT workshops
4. Transit oriented development pilot program FTA grant application submitted
5. Begin developing land use alternative for 1<sup>st</sup> station area grouping (Huntington, Penn Daw, Beacon/Groveton)
6. Meetings with developers about site-specific rezoning applications and Plan amendments
7. Transportation analysis consultant selected
8. Community Outreach
  - Podcast – audio interview about Embark
  - Preparation for July 25 community meeting
  - Spring Bank and MVCCA P+Z Committee community meetings

# III. DRAFT PROPOSED RICHMOND HIGHWAY CROSS SECTION

# Transit Boulevard

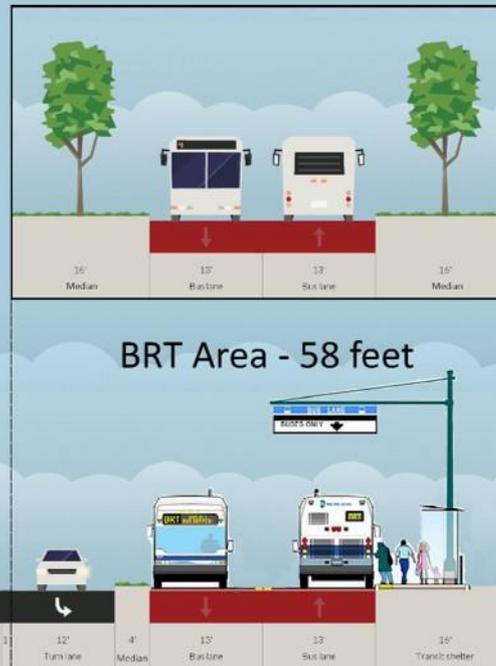
## Richmond Highway - 178 feet

*DRAFT Proposal*

**Notes:**

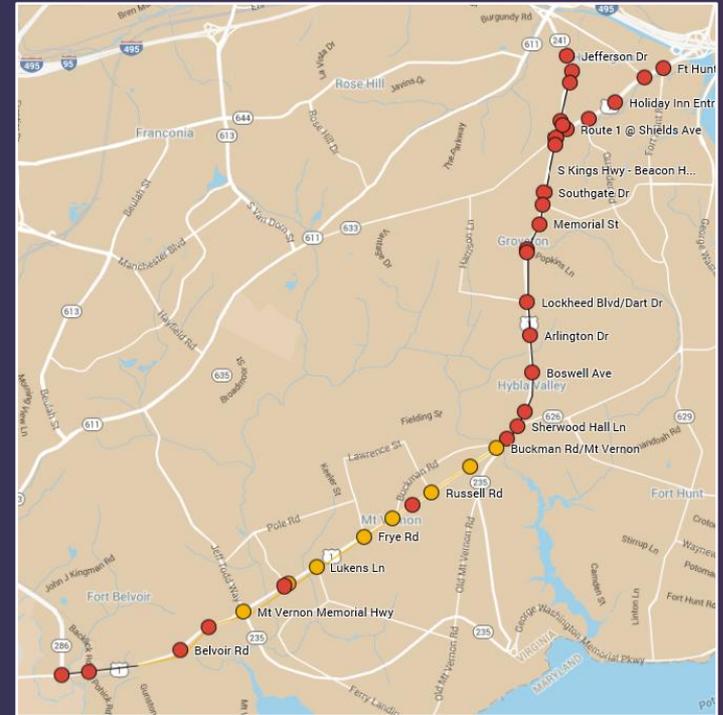
This section matches the current Comprehensive Plan section right-of-way with updated VDOT trail (shared use path) standards.

Right-of-way width could change depending upon location of street lights and utilities.



# Embark Richmond Highway Transportation Analysis

- Analyze alternative land use scenario(s) for the Comprehensive Plan Amendment
- Review multimodal cross-sections and street networks, and pedestrian and bicycle connectivity



*Traffic count locations*

# Embark Richmond Highway Transportation Analysis

Near term work (Summer 2016):

- Data Collection
- Develop street network for testing
- Existing Conditions Analysis
- Transportation model calibration

Mid term work (Summer/Fall 2016):

- 2040 Modeling
- Richmond Highway cross section refinement
- Initial evaluation of conceptual grid of streets
- BRT station location refinement

# Goals, Objectives and Draft Measures of Effectiveness (MOEs)

*Balance livability with traffic and transit performance*

Goal	Objective	MOEs
Mitigate traffic impacts of multimodal improvements (BRT, bike/pedestrian) and land use changes	<ul style="list-style-type: none"> <li>Evaluate north/south road capacity</li> <li>Evaluate proposed grid of streets</li> </ul>	<ul style="list-style-type: none"> <li>Intersection Level of Service</li> <li>Queue lengths</li> <li>Intersection delay</li> <li>Travel speed</li> <li>Travel time reliability (Auto)</li> <li>Local traffic</li> </ul>
Provide high-quality, high performance BRT	<ul style="list-style-type: none"> <li>Estimate transit ridership</li> <li>Assess BRT performance</li> <li>Evaluate BRT station locations</li> </ul>	<ul style="list-style-type: none"> <li>BRT frequency</li> <li>Travel time reliability (Transit)</li> <li>Travel speed</li> <li>Ridership</li> <li>Safety</li> <li>Affordability</li> </ul>
Improve bicycle and pedestrian connectivity, access, attractiveness, and safety	<ul style="list-style-type: none"> <li>Evaluate proposed grid of streets</li> <li>Increase bicycle facilities</li> <li>Increase pedestrian network connectivity</li> </ul>	<ul style="list-style-type: none"> <li>Pedestrian crossing times</li> <li>Corridor crossing opportunities</li> <li>Miles of pedestrian/bicycle facilities</li> <li>Network completeness</li> </ul>

# IV. DRAFT CONCEPTUAL GRID OF STREETS

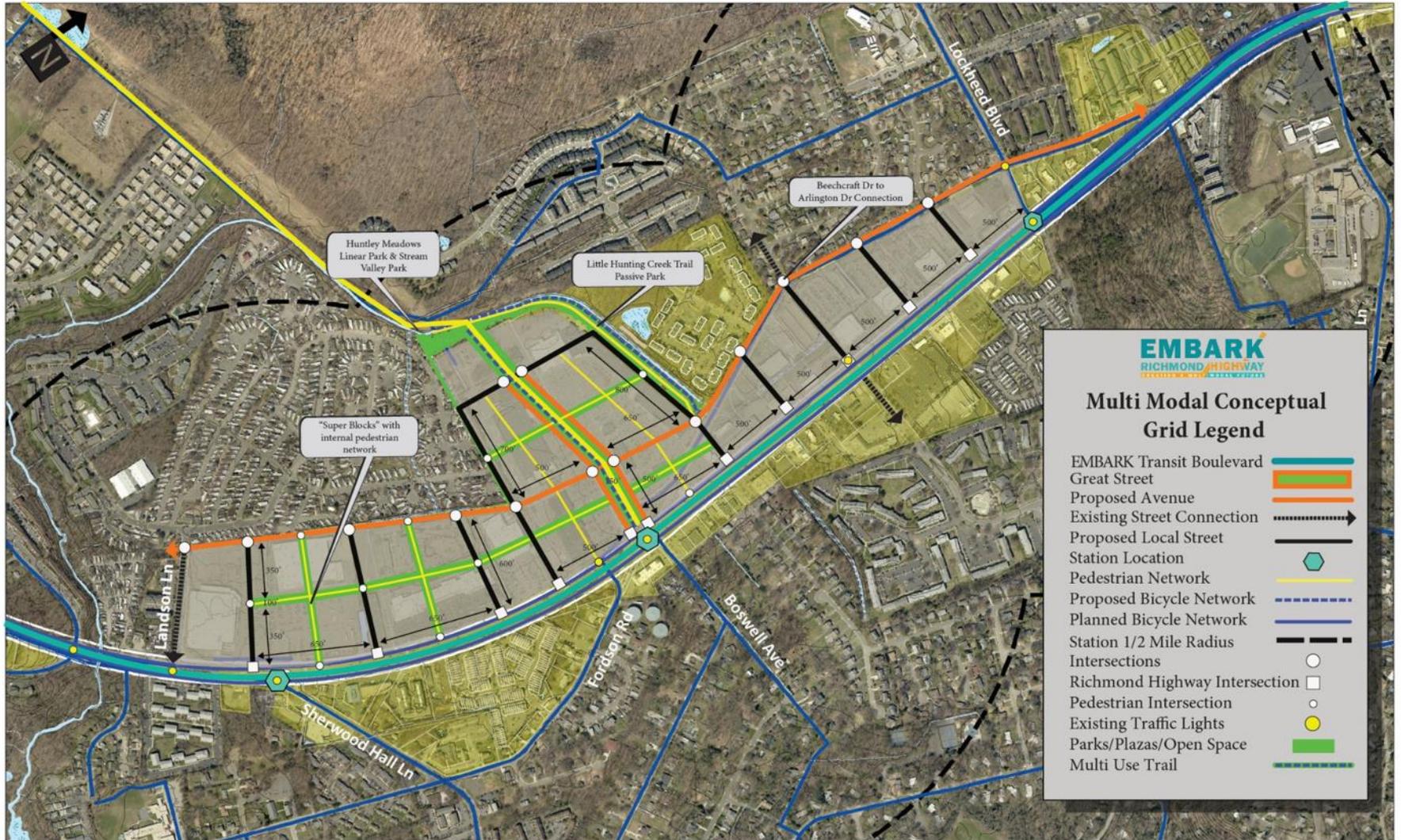
# Benefits of Street Grids

- Congestion Relief and Improved Mobility
- Safety
- Multimodal Choices
  
- Economic Development
- Urban Design
- Healthy Communities
- Environmental Management

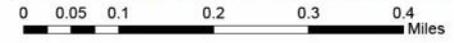
# Benefits of Street Grids

- Economic Development
  - Grow the economy and maximize return on investment
  - Create desirable locations for investment in the community, including residential, employment and mixed use opportunities
  - Maximize opportunities to efficiently concentrate mixed use development
- Urban Design
  - Create compact, walkable, mixed-use, transit oriented communities–Reducing automobile dependency
  - Create an inviting and dynamic environment that includes a network of open public spaces
  - Utilize grid as the physical framework for land use, environmental, transportation, and social goals

# Lockheed Blvd/Hybla Valley/Gum Spring



Document Path: S:\GIS\Project Folders\EMBARK Base Maps\EMBARKBaseMapSubareaTemplate.mxd





## **Widening from Jeff Todd Way/Mount Vernon Memorial Highway to Napper Road**

**Amanda Baxter**  
Special Projects Development Manager  
[Amanda.Baxter@vdot.virginia.gov](mailto:Amanda.Baxter@vdot.virginia.gov)

# Project Limits



# Route 1 Widening Development & Delivery Schedule

## Anticipated Schedule

- **Citizens Information Meeting- Summer 2017**
- **Public Hearing- January 2018**
- **Design Approval- May 2018**
- **Right of Way Acquisition & Utility Relocation- August 2019**
- **Advertise for Construction- December 2022**
- **Construction begins- 2023**

# V. HOW CAN YOU BE INVOLVED?

# Public Meetings

- **Monthly Advisory Group:**  
<http://www.fairfaxcounty.gov/dpz/embarkrichmondhwy/meetings>
  - Public comment typically invited at the end of meetings
  - Next meeting is July 18, 8:30 – 10:30 am, South County Center, Room 221
- **Community meetings:**  
<http://www.fairfaxcounty.gov/dpz/embarkrichmondhwy/meetings>
  - Community Meeting #2 July 25, 7:00 – 9:00 p.m., West Potomac HS



# Stay Informed and Contact Us



- Website:  
<http://www.fairfaxcounty.gov/dpz/embarkrichmondhwy>
- Listserv:  
<http://www.fairfaxcounty.gov/email/lists/>
- Email:  
[DPZ-RichmondHighway@fairfaxcounty.gov](mailto:DPZ-RichmondHighway@fairfaxcounty.gov)
- Facebook:  
<https://www.facebook.com/fairfaxlanduse>
- Twitter:  
Hashtag #EmbarkRH
- Call Planning and Zoning Staff: (703)324-1380
- Call Transportation Staff: (703)877-5600

# End of Presentation

## Questions?