Citizen Information Meeting
Mount Vernon Memorial Highway Trail Project

Presented by
Fairfax County Department of Transportation and
The Office of Mount Vernon District Supervisor Dan Storck

Mount Vernon Governmental Center
December 9, 2019, 7:30 PM
Meeting Agenda

• Introduction of the Project Team

• Project Discussion
  – Purpose of the Project
  – Design Update
  – Project Schedule

• Q&A – Community Feedback
Project Team

- Department of Transportation
  - Transportation Design Division
  - Capital Projects and Traffic Engineering Division
  - Whitman, Requardt & Associates (WRA)
  - Accumark, Utility Locating

- Department of Public Works
  - Land Survey Branch
  - Land Acquisition Division
  - Construction Division
Purpose of the Project

- Provide walking and biking accessibility to the attractions and amenities along the historic corridor

Existing Bus Stops

- GW’s Distillery & Gristmill
- Grist Mill Park
- Grist Mill Dog Park
- National Library at Mount Vernon
- GW’s Mount Vernon Estate
- GW’s Mount Vernon Estate & Gardens
- Washington Mill Elementary School
- Existing Bus Stops
Purpose of the Project

- Complete missing segments of the Potomac Heritage National Scenic Trail (PHNST) between Richmond Highway (US Route 1) and Southwood Drive

- PHNST is a designated National Scenic Trail corridor spanning parts of the Mid-Atlantic and upper Southeastern regions of the United States that connects various trails and historic sites

Proposed Pedestrian & Cyclist Facilities

- Construction of a 10-wide, approximately 6,400’ long asphalt shared use path within the missing segments
- Construction of a new pedestrian bridge crossing Dogue Creek
- Improvements of existing pedestrian crossings including installation of Rectangular Rapid Flashing Beacon (RRFB) at Southwood Drive
- Installation of new crosswalks and pedestrian signal
- Installation of ADA curb ramps
- Bus Stop Improvements
Proposed Pedestrian Bridge

- Within the shadow of the existing Mount Vernon Memorial Highway bridge

- 218’ long and 14’ wide bridge
- A steel girder bridge with concrete deck

Existing Roadway Bridge Crossing Dogue Creek Facing West Towards Fort Belvoir
The pier locations match those of existing roadway bridge
- Retaining wall is needed along westbound trail approach
- Stone pattern form liner treatment is proposed on the abutment wingwalls, retaining walls, and parapet
The pattern is selected to match the character of the area
- Form liner will be applied on both sides of the structure
- Railing is a combination of parapet and steel rails
- Medallion of a millstone

Source: George Washington’s Distillery and Gristmill website: [https://www.mountvernon.org/the-estate-gardens/distillery-gristmill/](https://www.mountvernon.org/the-estate-gardens/distillery-gristmill/)
## Intermediate Design Plan October 2019 - Supporting Data

- Topographic Survey
- Geotechnical Investigation
- Environmental Impact
  - Cultural Resources Studies
  - Wetland Delineation
- Floodplain Study
- Assessment of existing bus stops for consolidation/elimination
- Pedestrian Study
- Traffic Study
- VDOT Speed Limit Study
- Underground Utility Investigation
Design Update - West of Patton Boulevard

- A trail separated from the roadway will be constructed along Mount Vernon Memorial Highway between Grist Mill Road and Patton Boulevard.
  - Trail continues to Patton Boulevard in the grassed median area between the Service Road and Mt Vernon Memorial Highway.

At Patton Boulevard Facing West
The missing segments are all along northside of Mount Vernon Memorial Highway - trail is now on the northside of the road between Peartree Landing and Southwood Drive

- Removing westbound right turn lane to install the trail
- Reducing property impact
County of Fairfax, Virginia

Design Update - Pedestrian Crossings

- Installation of curb ramps at the intersection of Patton Boulevard and Mount Vernon Memorial Highway
  - Reduced crossing distance
  - Relocated eastbound bus stop

Looking at Patton Boulevard Facing East

- Proposed Trail
- Curb Ramp
- Bus Loading Pad
- Sidewalk connection to Bus Stop
Design Update – Pedestrian Crossings

- Installation of new high-visibility crosswalk and accessible pedestrian signal (APS) on Old Mill Road at Mount Vernon Memorial Highway
  - APS is to assist visually impaired pedestrians who relies on their hearing

Intersection of Mount Vernon Memorial Highway and Old Mill Road Facing East

Department of Transportation
Design Update - Pedestrian Crossings

- Relocation of existing crosswalk to just west of Grist Mill Park entrance with high-visibility crosswalk and fluorescent yellow-green warning signs
  - Reduced crossing distance

- Relocation of the existing asphalt trail within the Park closer to the road to improve crosswalk visibility for turning vehicles into the Park

Mount Vernon Memorial Highway at Grist Mill Park Entrance Facing North
Design Update - Pedestrian Crossings
- Installation of high-visibility crosswalk, and Rectangular Rapid Flashing Beacon (RRFB) with fluorescent yellow-green warning signs at Southwood Drive
  - RRFB uses irregular flash pattern similar to emergency flashers on police vehicle
  - Increase visibility and driver’s awareness of pedestrian presence
Design Update – Drainage Improvements

- Installation of underground detention system along Mount Vernon Memorial Highway at Old Mill Road intersection
  - Reducing stormwater runoff
- Upsizing the existing culvert under Mount Vernon Memorial Highway

Mount Vernon Memorial Highway at Old Mill Road Facing East
Project Challenges

- Left turn lane extension on Mount Vernon Memorial Highway westbound approaching Walker Gate Entrance
- Existing sewer forcemains at Dogue Creek
- Floodplain Study
- Wetland and Stream Impacts
Schedule

- 90% Design Plans – Spring 2020
- Initiate Land Acquisition – Spring 2020
  - With anticipation of no significant scope revision
- Complete Land Acquisition – Fall 2020
- Construction Start – Spring 2021
- Construction Completion – Winter 2021
Questions, Comments, or Suggestions

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Project Website:
https://www.fairfaxcounty.gov/transportation/walk/projects/mount-vernon-memorial-highway-trail-project