

Envision Route 7 Phase IV Mobility Study Community Chat

May 16, 2023

Xavier Harmony NVTC

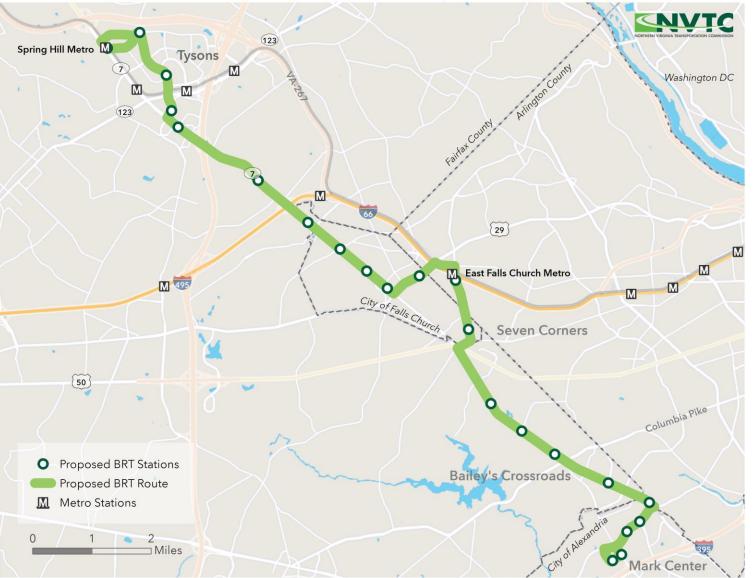


Agenda and Format

- 7:00 PM 7:15 PM: Overview of Envision Route 7 Project
 - Project background
 - Overview of BRT
 - Proposed BRT scenarios
 - Analysis of BRT scenarios
 - Next steps
- 7:15 PM 8:00 PM: Q/A at Information Boards

Project Background and Overview





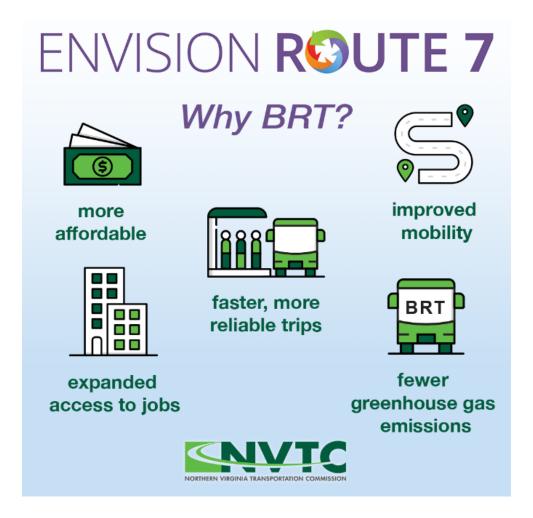
Envision Route 7 Project Overview

- Bus Rapid Transit (BRT) system from Mark Center to Tysons Corner
- Second busiest bus ridership corridor in Northern Virginia (currently at 106% of pre-pandemic ridership)



Envision Route 7 Project Benefits

- Connects major job centers
- Provides connection to two
 Metrorail Stations and one
 BRT service
- Improves transit quality of service
- Enhanced access to transit





Envision Route 7 Project Phases

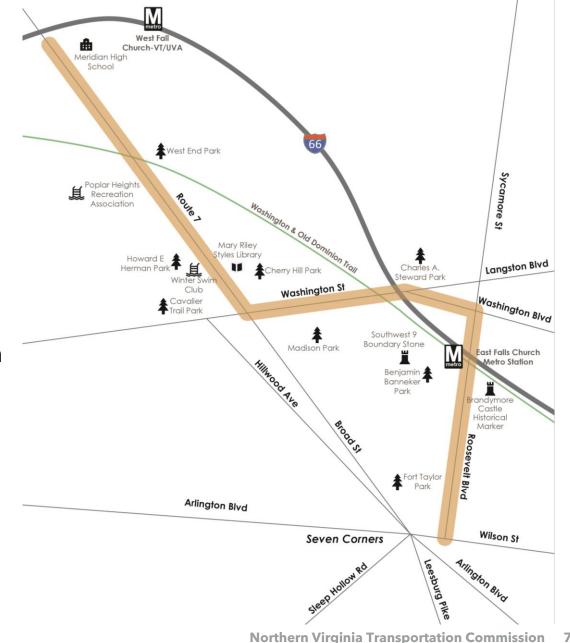


- Phase I identified transit options
- **Phase II** selected BRT as a solution
- Phase III developed BRT concept
- Phase IV assessed multiple BRT scenarios and their mobility benefits within the City of Falls Church



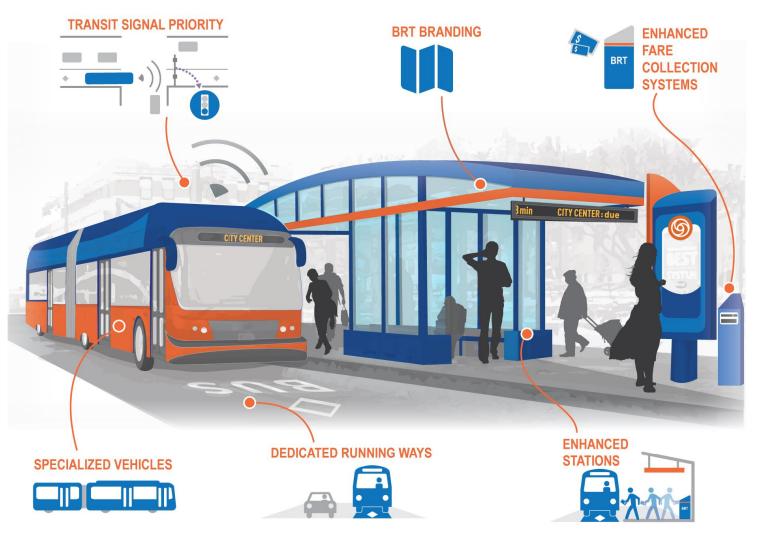
Envision Route 7 Phase IV: Study Corridor and Objectives

- 3.5 miles corridor in the City of Falls Church
- Connection to East Falls Church Metrorail Station
- Study objectives:
 - Determine the mobility effects of BRT
 - Facilitate public understanding of BRT
 - Test multiple BRT scenarios



Overview of Bus Rapid Transit (BRT)





Bus Rapid Transit (BRT) Overview

- BRT is a high-capacity and highquality transit system
- Provides fast and reliable service

Source: Madison Corridor Bus Rapid Transit, SDOT 2015



Bus Rapid Transit (BRT) Overview



Business Access and Transit (BAT) Lanes (Washington, DC)



Off-Board Fare Payment (New York City)



Level Boarding (Eugene, Oregon)



Real Time Info (Minneapolis)

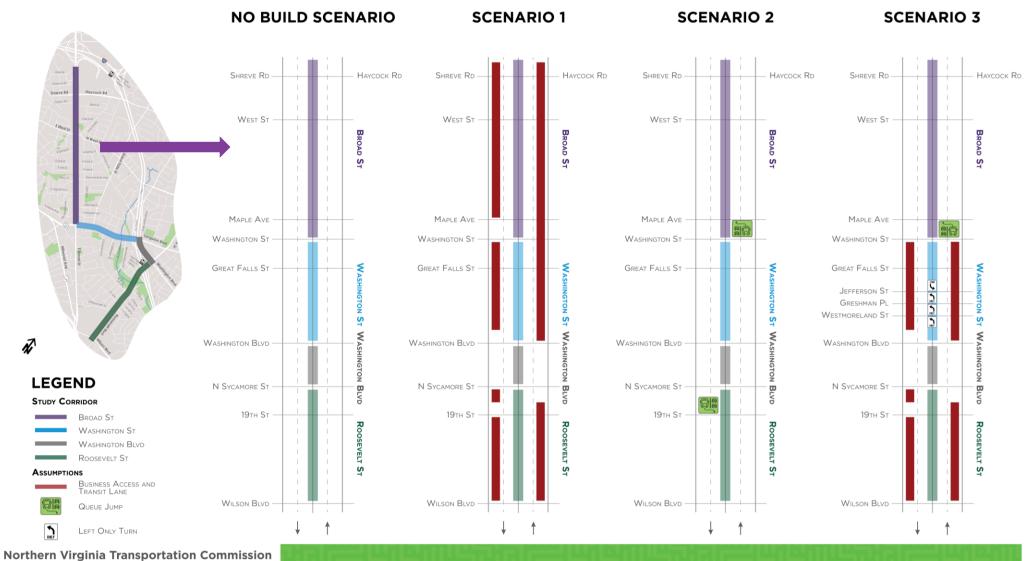


All Door Boarding (Los Angeles) Northern Virginia Transportation Commission 10

Proposed Bus Rapid Transit (BRT) Scenarios

Proposed BRT Scenarios









Business Access and Transit (BAT) Lanes: Broad Street & West Street, Scenario 1

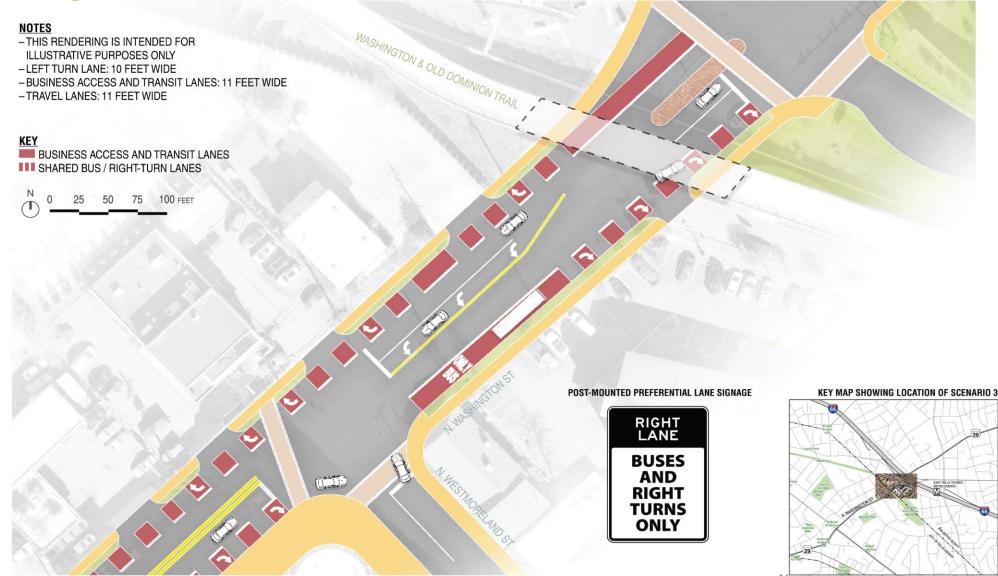


Queue Jump Lanes and Signals N Sycamore St. & 19th St. N, Scenario 2





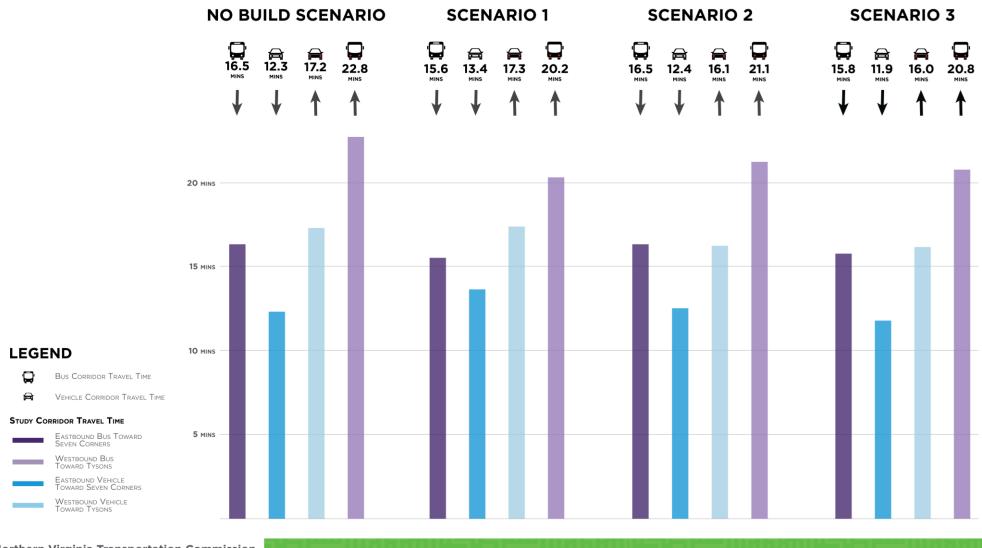
BAT Lanes with Left Turn Pockets N. Washington St. & N Westmoreland St., Scenario 3



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Analysis of Bus Rapid Transit (BRT) Scenarios

BRT and Vehicle Corridor Travel Times (minutes) AM Peak Hour

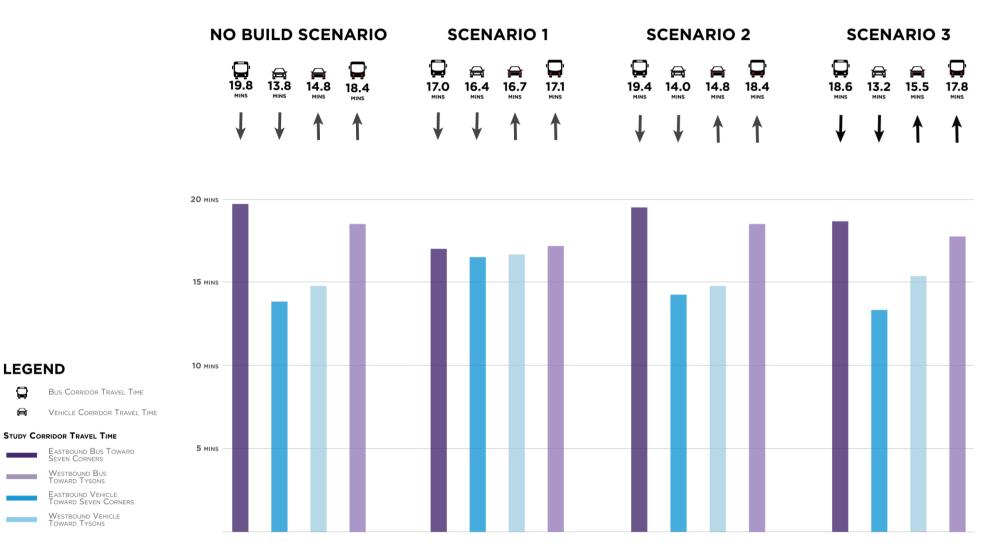


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BRT and Vehicle Corridor Travel Times (minutes) PM Peak Hour



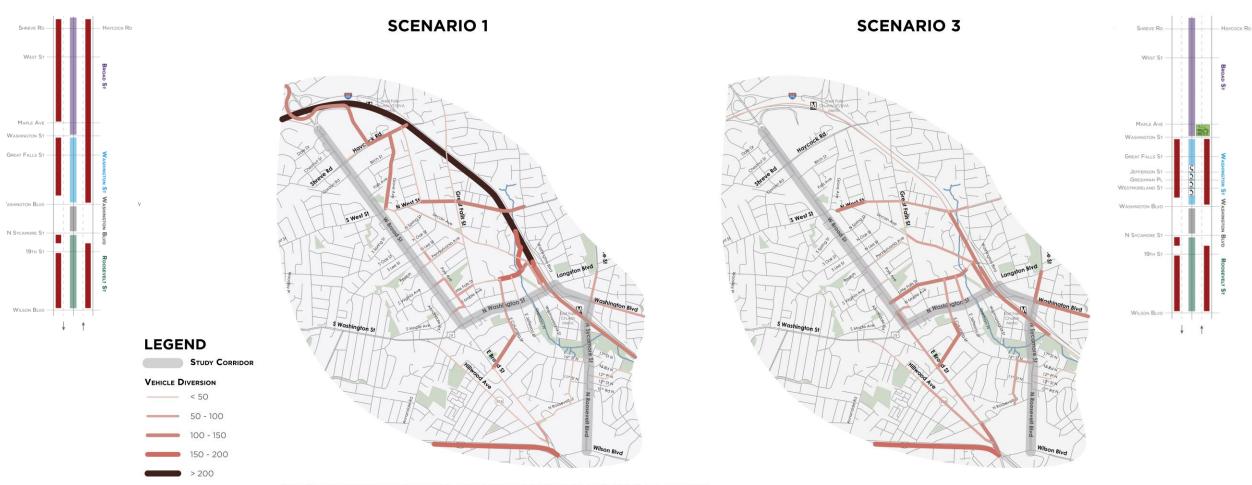
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WHERE ARE VEHICLES DIVERTING DURING THE RUSH HOURS?

SCENARIO 3



Note: The vehicle diversion estimates presented in the figures above for Scenario 1 and Scenario 3 are representative of rush hour traffic volumes. Additionally, they reflect vehicles being diverted in both directions of traffic.

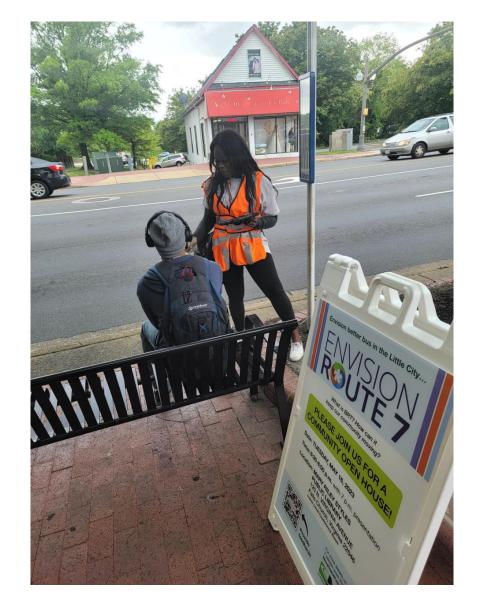
SCENARIO 1





Next Steps

- This study
 - Survey closes June 4
 - Final report expected to be completed in July
 - Study findings are expected to be presented to the NVTC Commissioners in September
- Project next steps
 - Currently scoping final planning and environmental work (planning to start fall/winter 2023)
 - Coordination with stakeholders is ongoing



Thank You.

Xavier Harmony

Northern Virginia Transportation Commission xavierharmony@novatransit.org

https://novatransit.org/programs/route7/



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2300 Wilson Boulevard, Suite 230, Arlington, Virginia 22201 | www.novatransit.org | @novatransit