



County of Fairfax, Virginia

# **Seven Corners Phasing Study**

## **2030 Conditions and Phasing Analysis**

***Virtual Public Information Meeting***  
***November 16<sup>th</sup> and 17<sup>th</sup>, 2021***

**Nanditha Paradkar, P.E.**  
Transportation Planner  
Department of Transportation

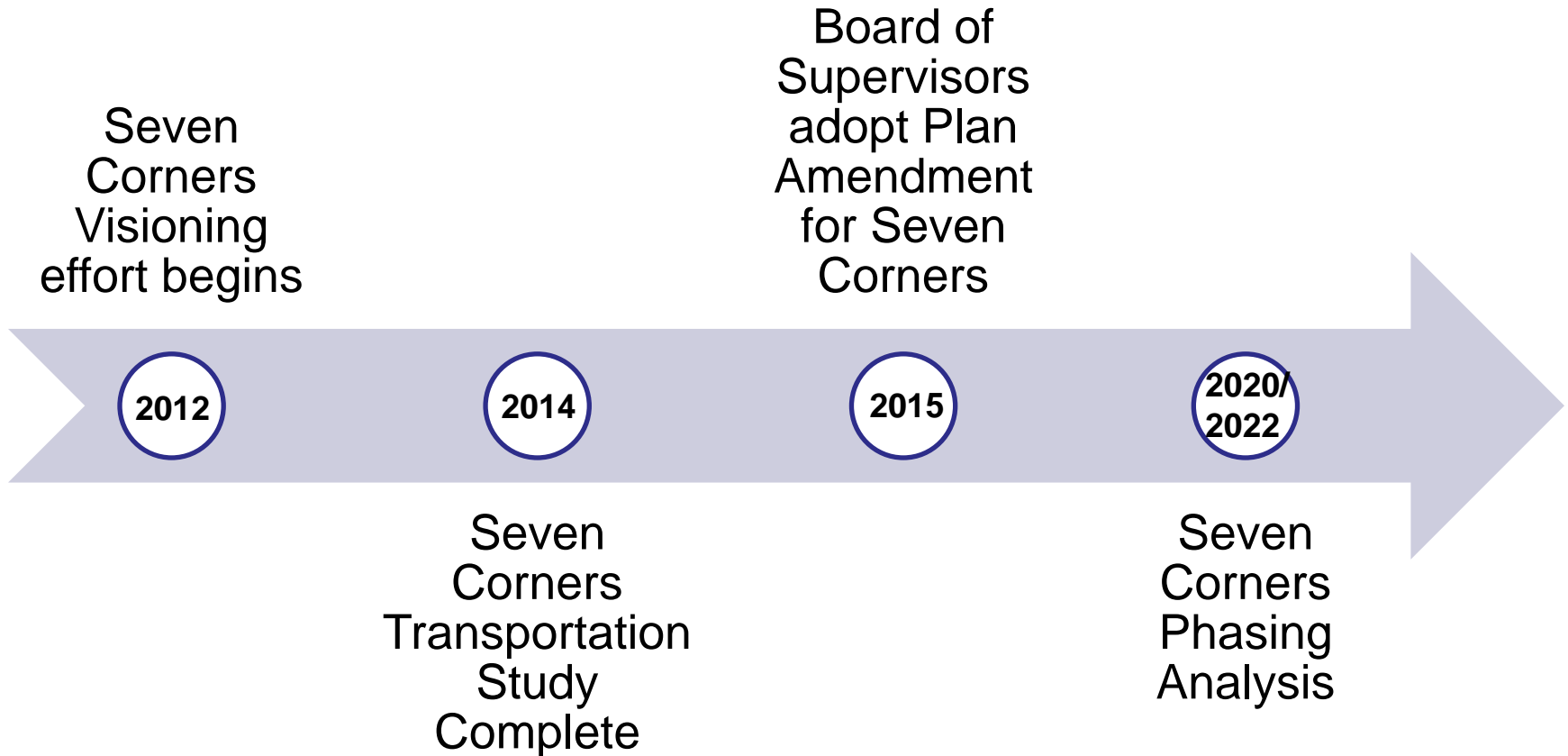


# Agenda

- Study Background, Purpose and Process
- Summary of Meeting 1 Outreach
- Typical Conditions Recap
- 2030 Phasing Concepts
- 2030 Analysis Results
- Pedestrian & Bicycle Facility Prioritization
- Next Steps & Schedule
- Public Input
- Questions/Comments



# Study Background



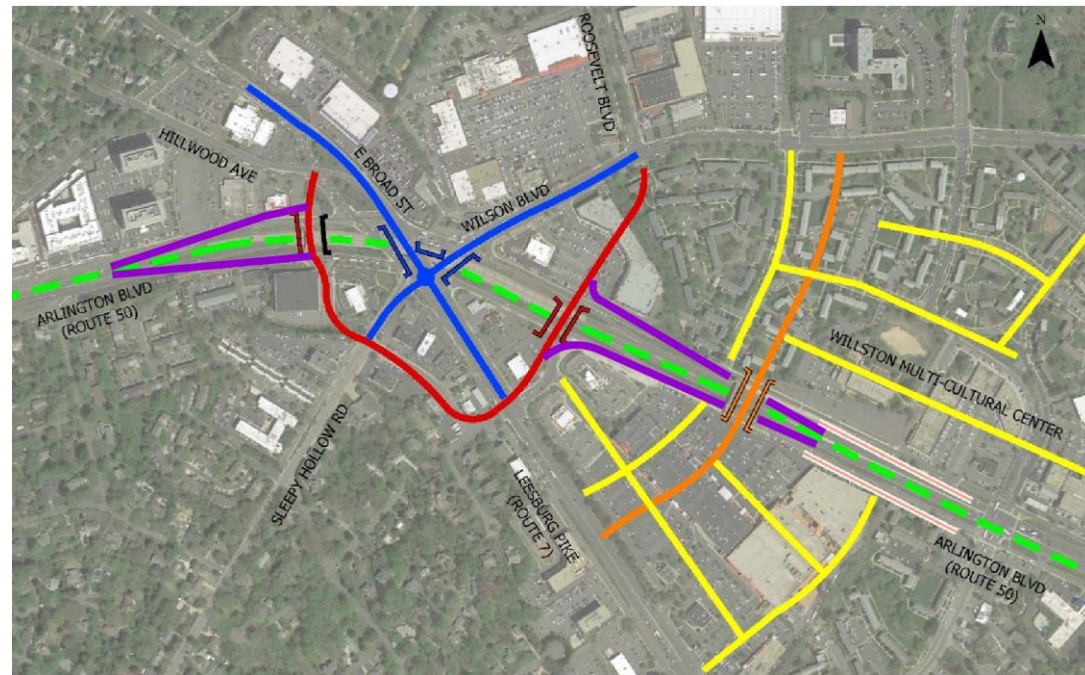




# Study Background

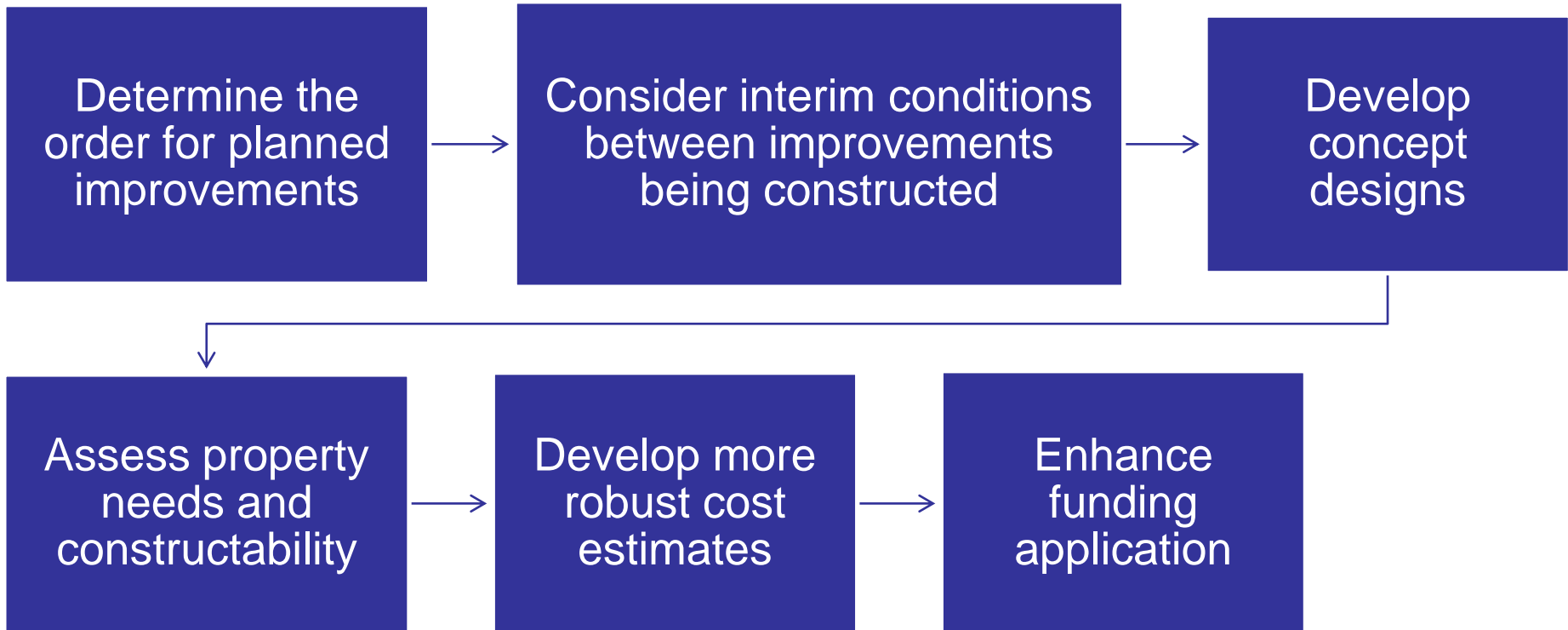
- Results of 2014 traffic analysis led to selection of a concept with:

- **A ring road**
- **Four-way intersection**
- **Route 50 widening**
- **Shifted ramps to and from Route 50**
- **Willston / Village Center to Route 7**
- **Additional connecting streets**



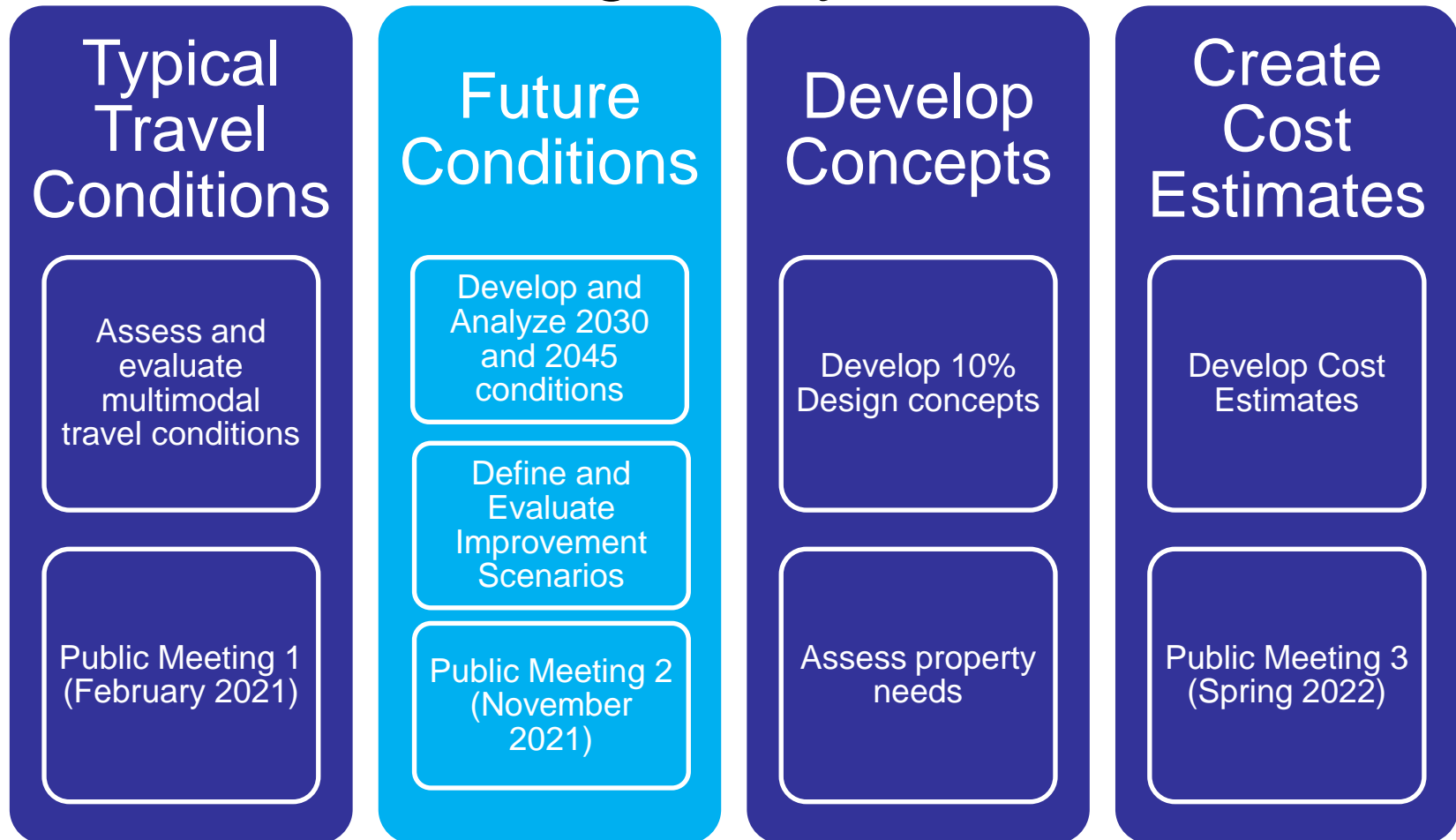


# Purpose of Phasing Study





# Phasing Study Process

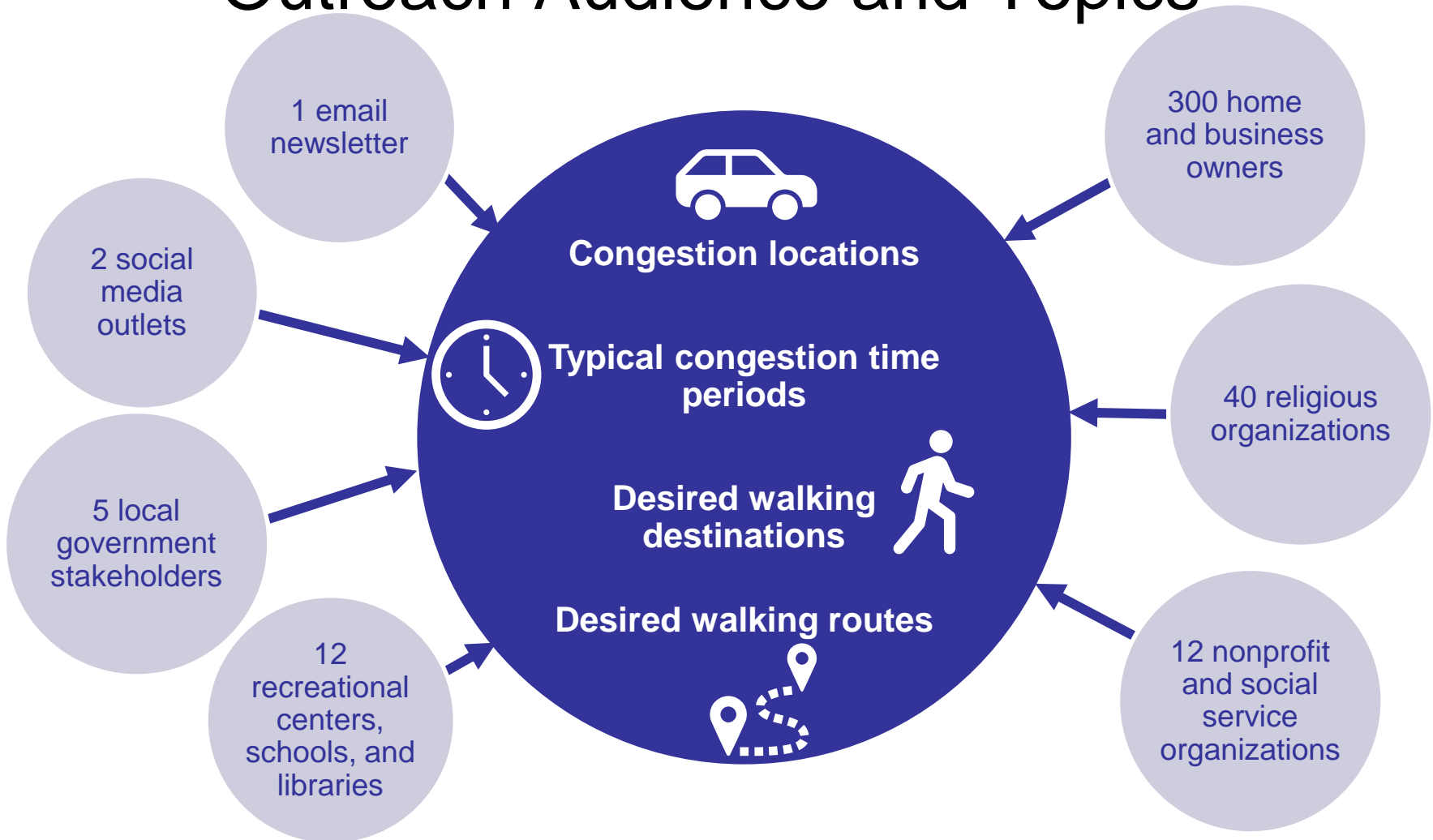




# Summary of Meeting 1 Outreach



# Outreach Audience and Topics







# Comment Topic Areas



Queuing (Back-ups), 46%



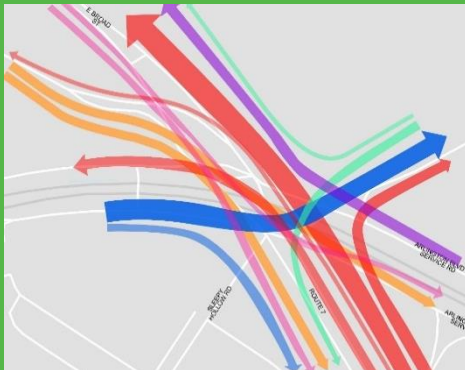
Bike/Ped Safety, 38%



Signal timing, 33%



Access/  
driveway  
management,  
21%



Turning Conflicts, 44%



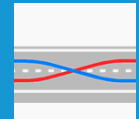
Bike/Ped Facilities, 35%



Transit  
Access or  
Frequency,  
19%



Wayfinding  
(Directional  
Signs), 17%



Weaving,  
10%

Off-Peak, 8%



<https://www.fairfaxcounty.gov/transportation/study/seven-corners>



# Typical Conditions Recap



# Typical Conditions Recap: PM Travel Patterns





# Typical Conditions Recap: Biking

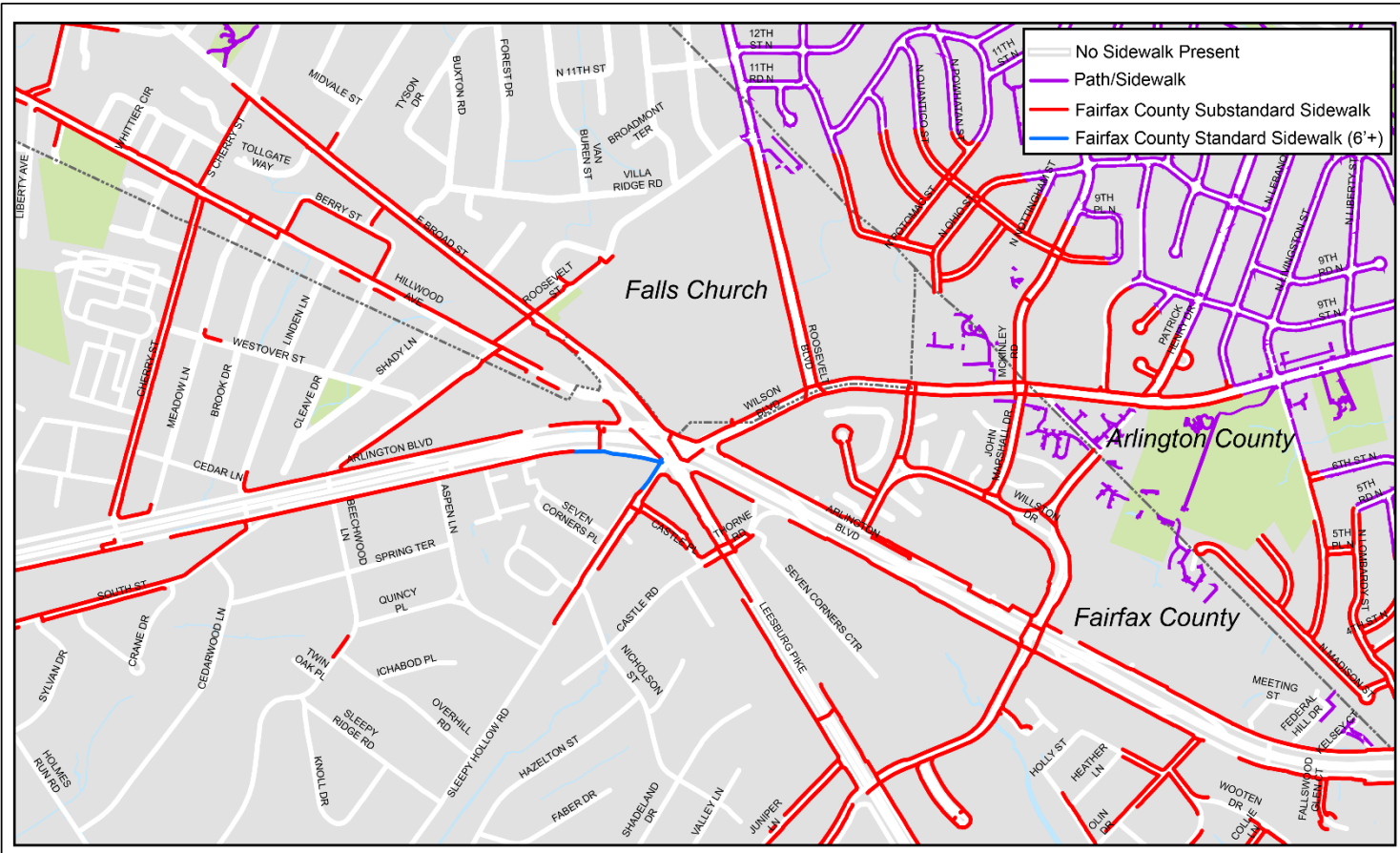






# Typical Conditions Recap: Sidewalks

Seven Corners Phasing Study



0 0.075 0.15 0.3 Miles

**KITTELSON**  
& ASSOCIATES

Existing Sidewalk

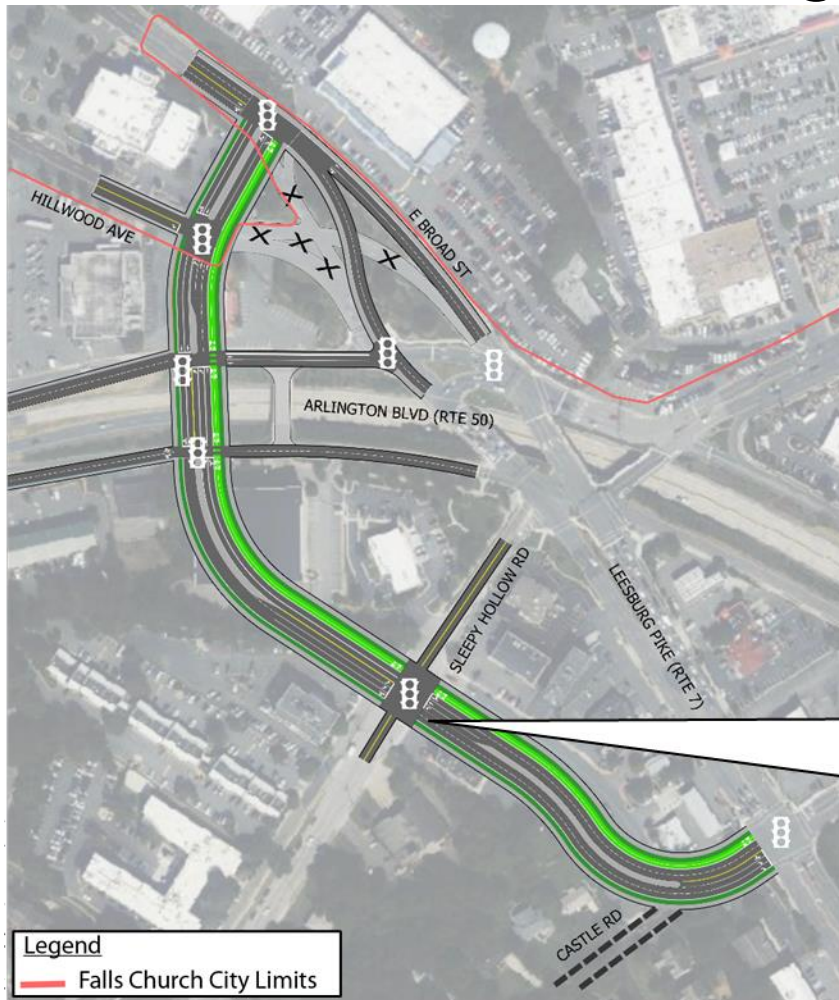




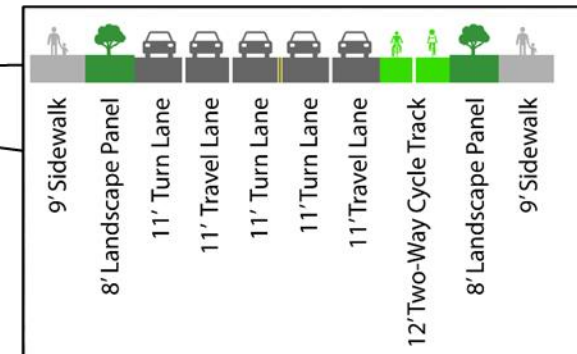
# 2030 Phasing Scenarios



# 2030 Phasing: Scenario 1

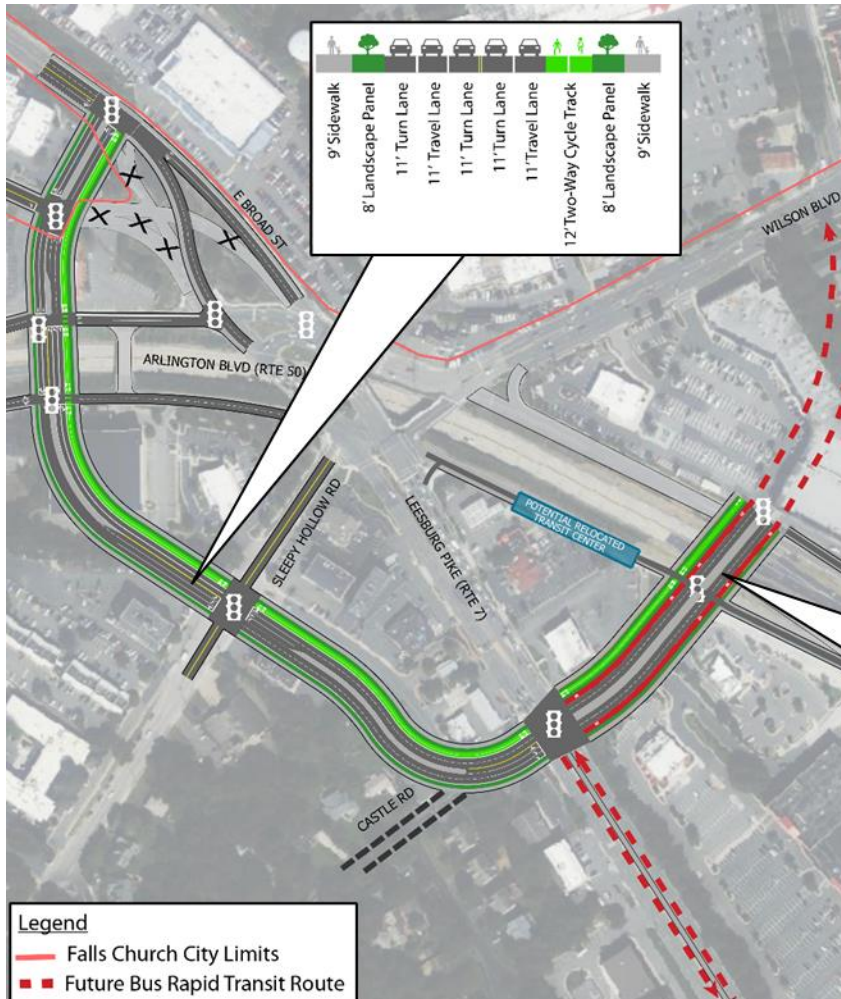


- Ring Road along the west side of the interchange
- Ring Road will be four lanes with a center turn lane/median
- Includes cycle track and sidewalks
- Hillwood Avenue connection adjusted
- Slightly adjusted ramps to/from Route 50 on west

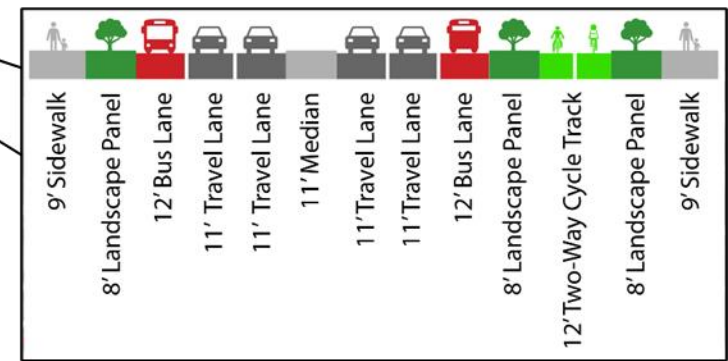




## 2030 Phasing: Scenario 2



- Extend Ring Road across Route 50 in the southeast
- New segment will include exclusive bus facilities
- New location for Transit Center
- Access Road intersects Ring Road
- New and adjusted ramps to/from Route 50 on east







# 2030 Transit Considerations



- Transit Center along Access Road
- Buses will access the transit center from the interchange
- Transit Center retains similar capacity
- Buses circulate back to Route 7 along the Ring Road

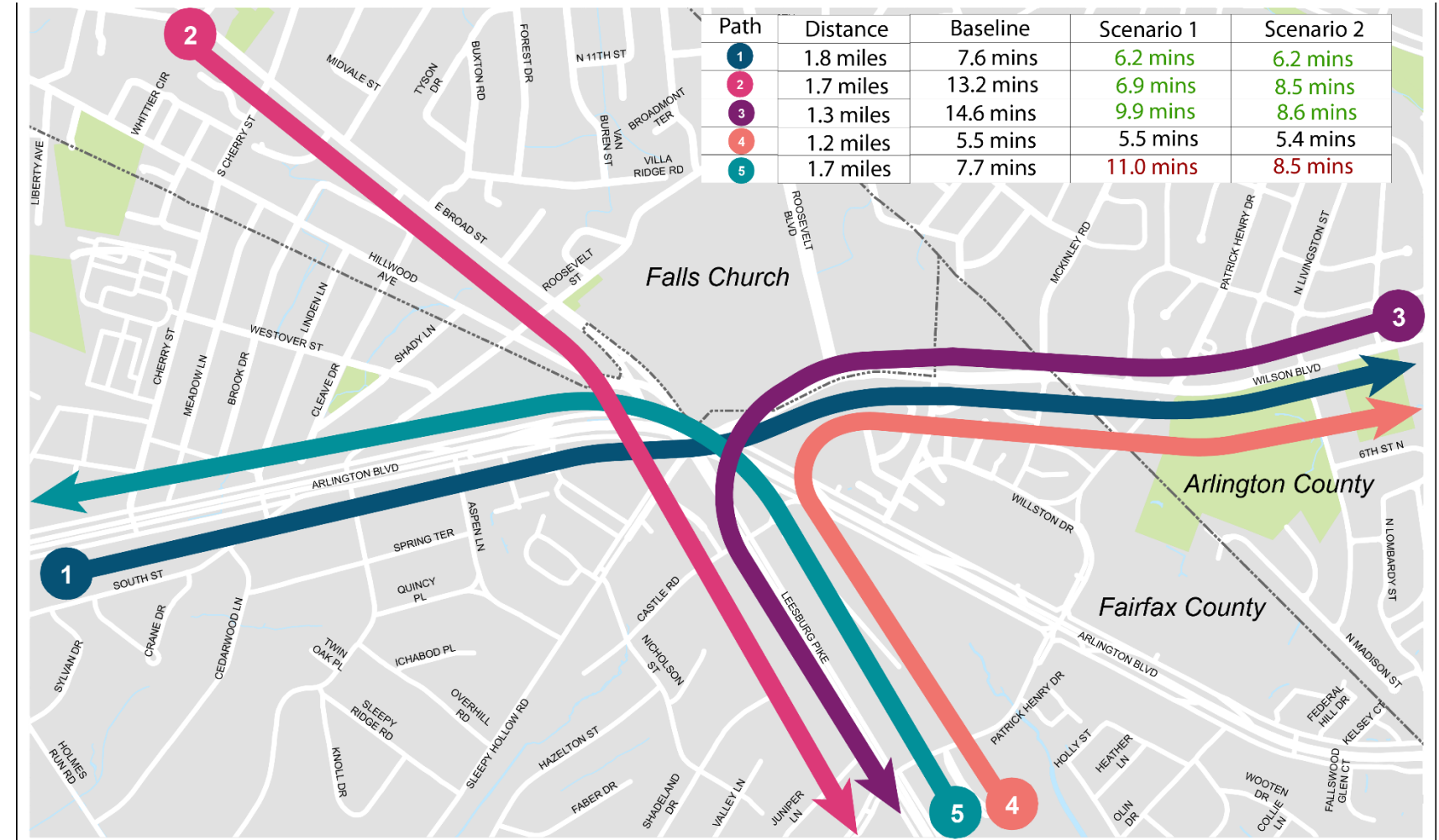


# 2030 Analysis Results





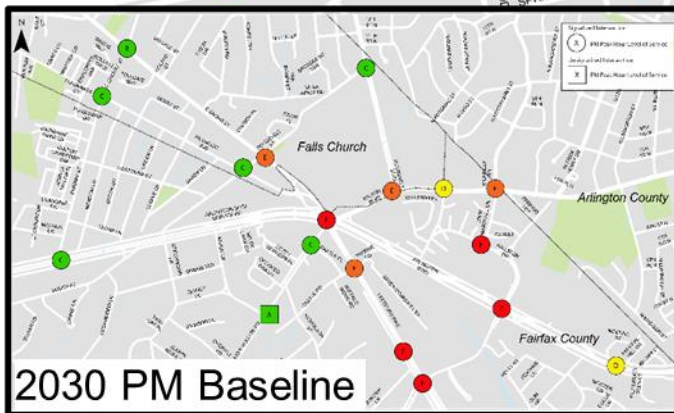
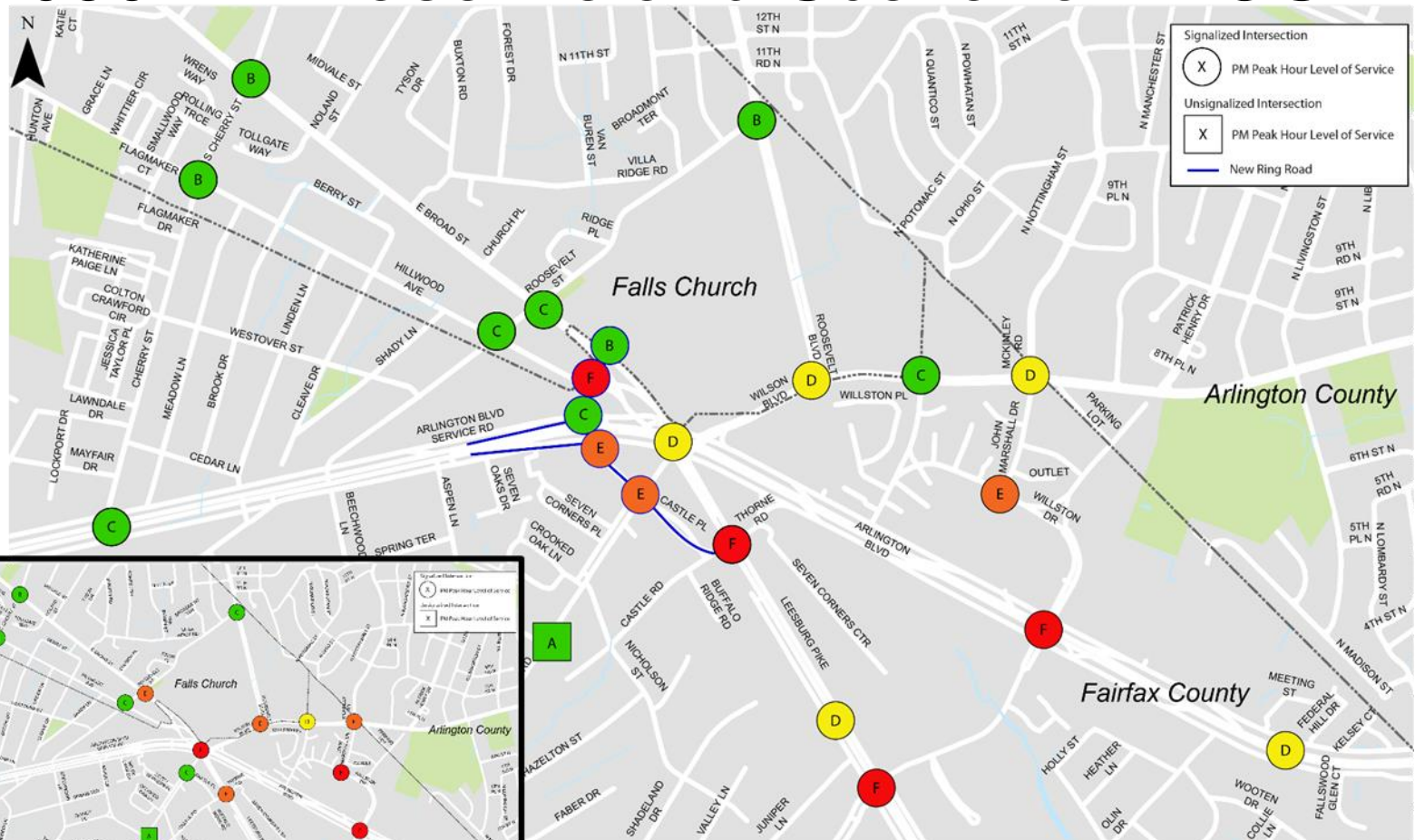
# 2030 PM Vehicle Travel Times



[illegible]



# 2030 PM Baseline and Scenario 1 LOS

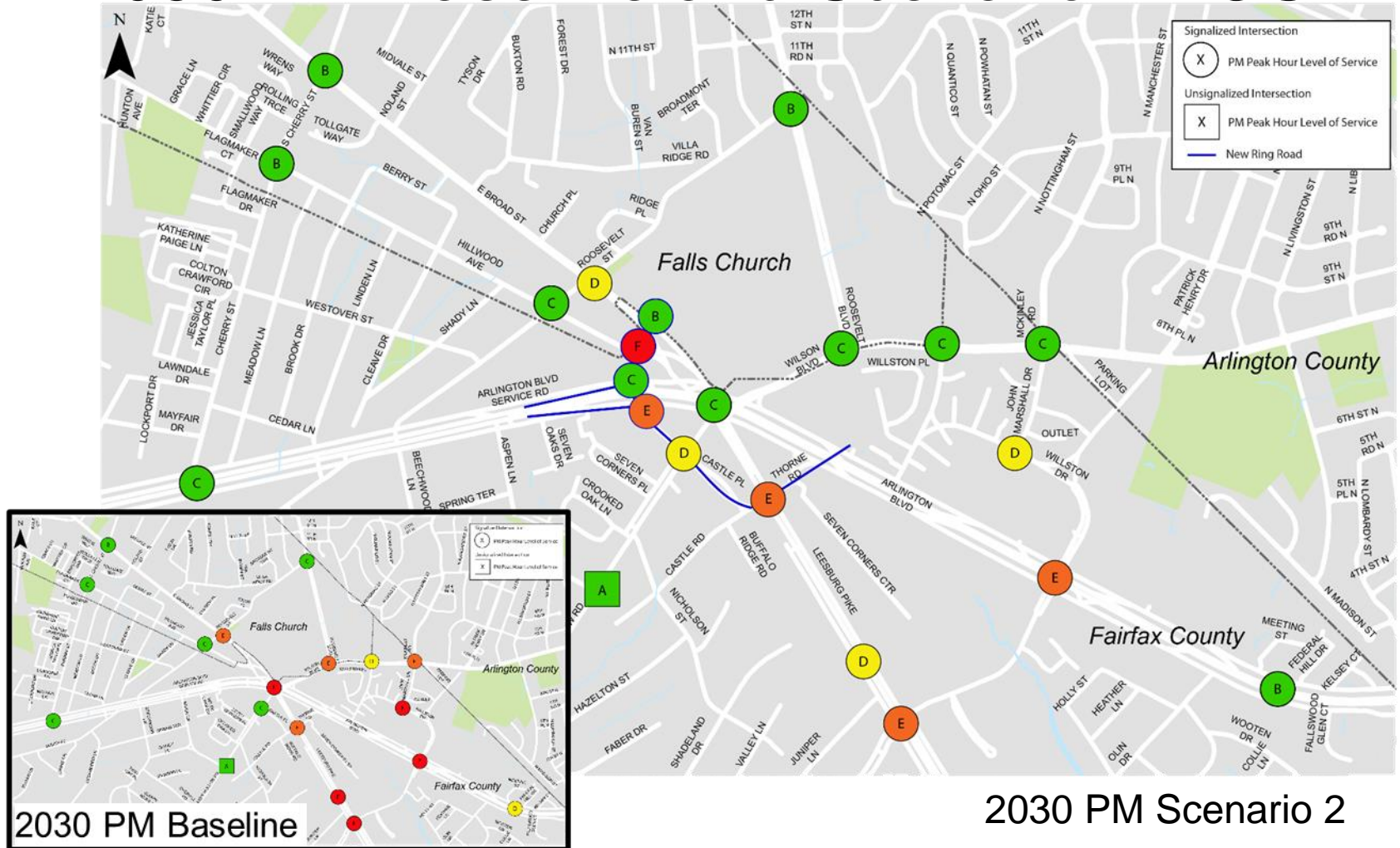


2030 PM Scenario 1



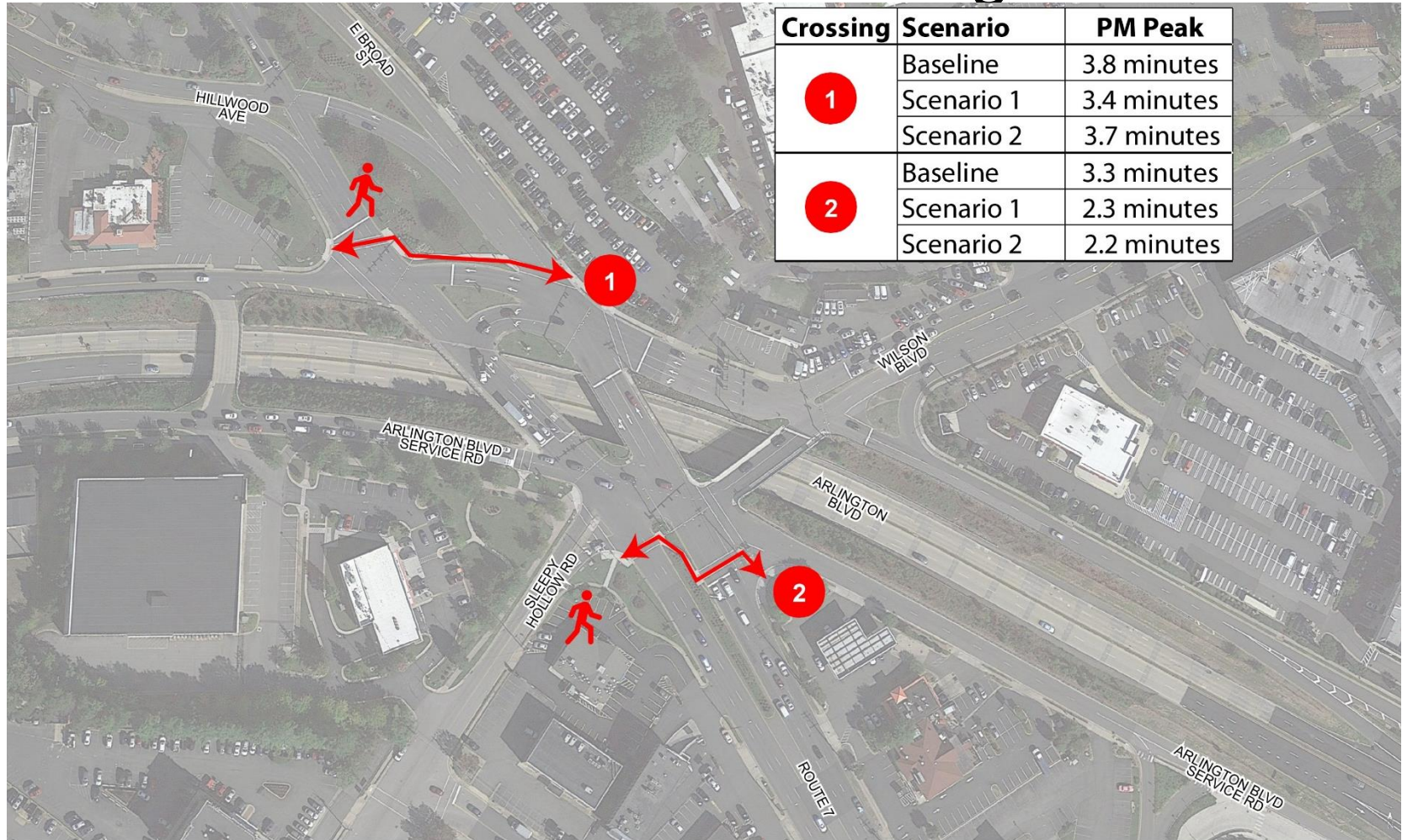


# 2030 PM Baseline and Scenario 2 LOS





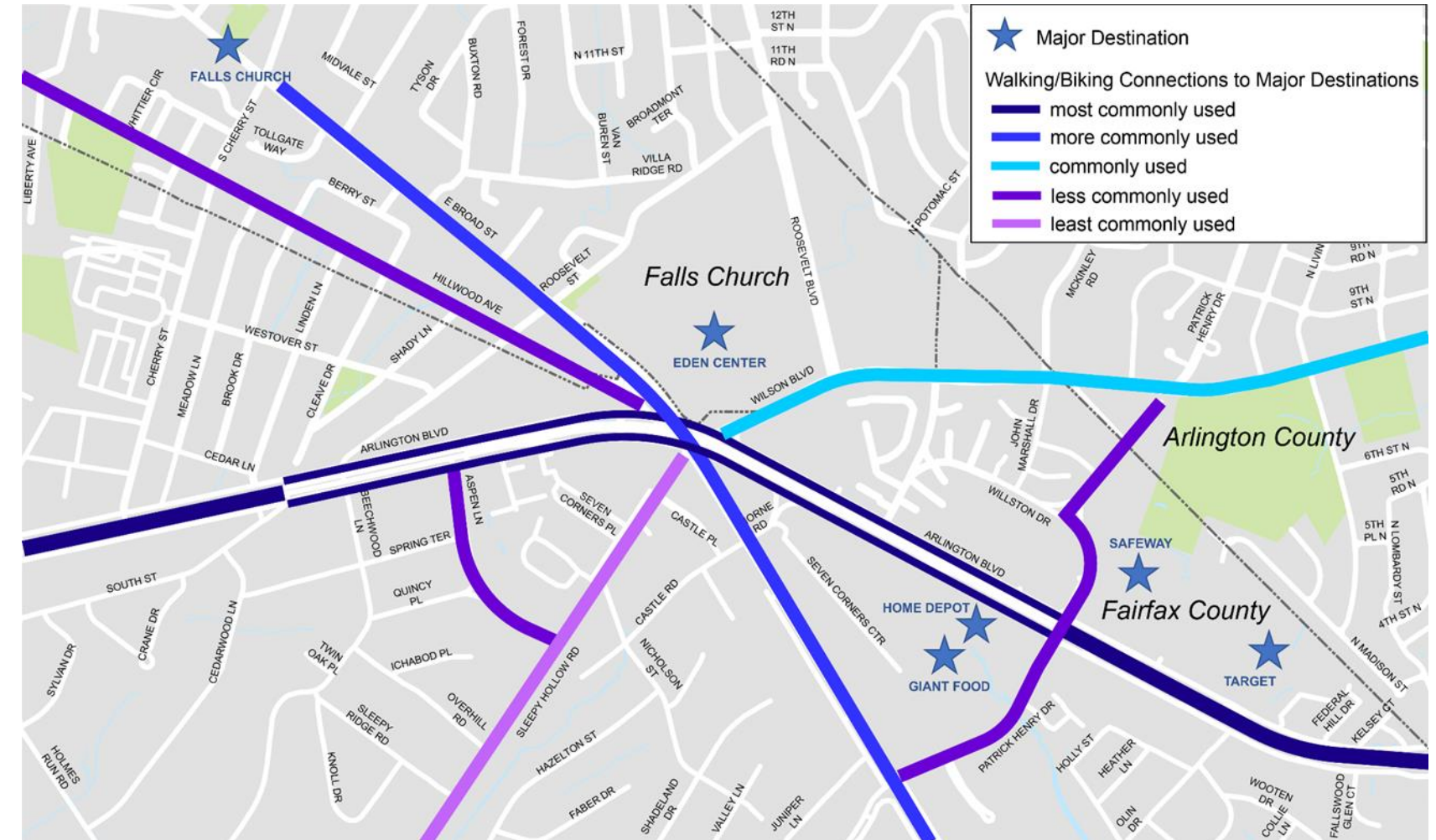
# 2030 Pedestrian Crossing Times





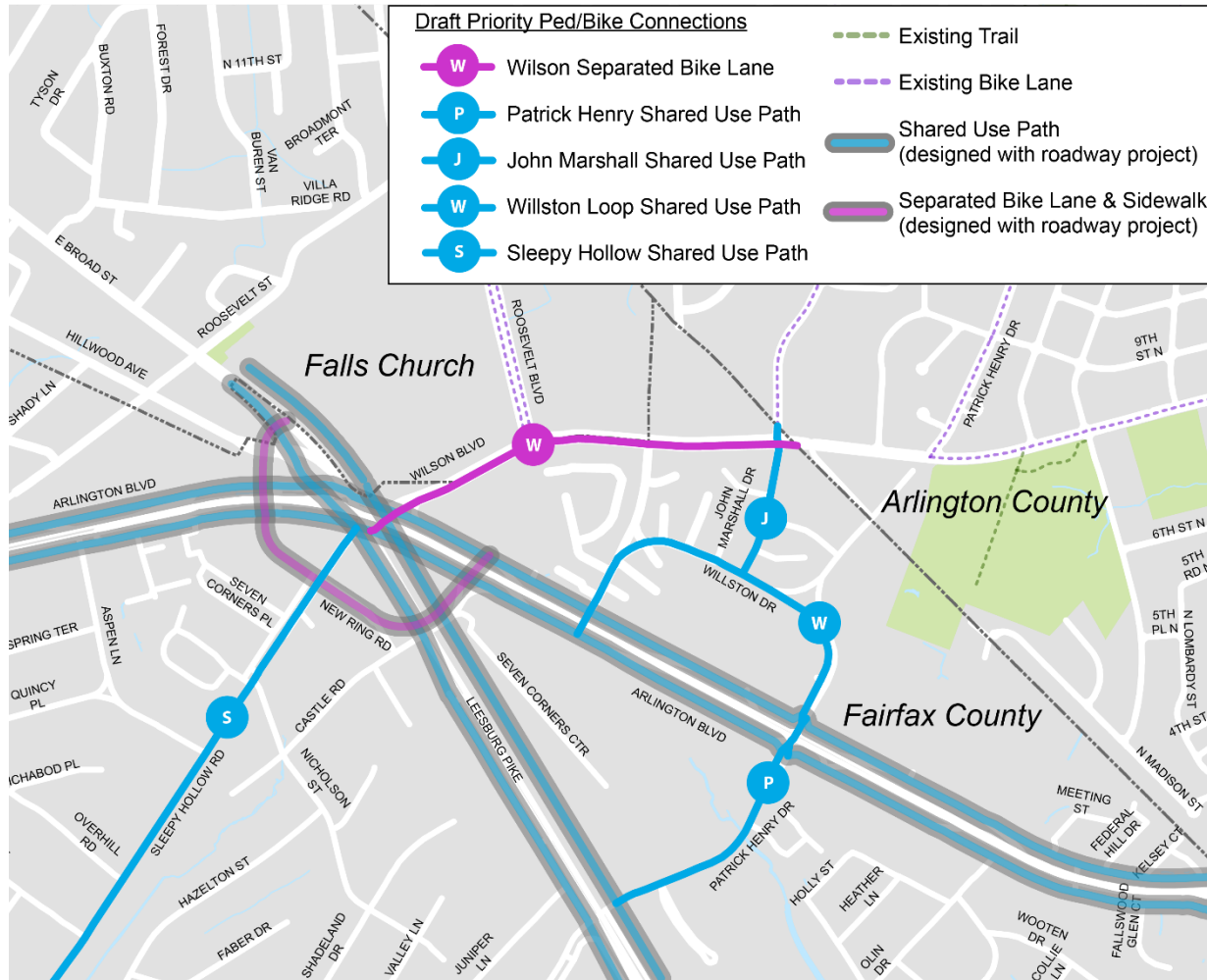


# Pedestrian/Bicycle Input from Meeting 1





# 2030 Pedestrian, Trail, and Bicycle Priorities



- Prioritize planned improvements
- Improve access to adjacent neighborhoods
- Connect facilities to Ring Road



# Next Steps and Schedule



## Next Steps

### Identify Phasing of Improvements

Identify long range phasing scenarios

Multimodal travel analysis

Identify order of improvements

### Develop Concept and Estimate Cost

Complete conceptual layout

Planning level cost estimate

Identify property impacts

Cost by project phase



# Project Schedule

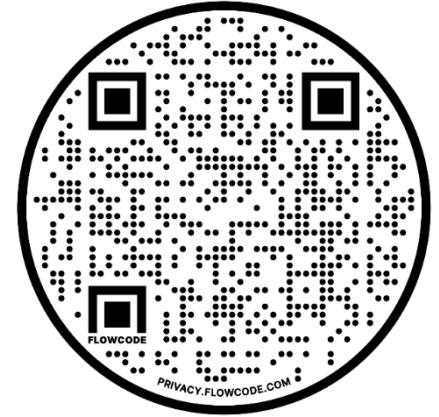
- 2030 Concepts and Conditions
  - Public Meeting 2
  
- Preferred Concept / Cost Estimates
  - Public Meeting 3 (Spring 2022)
  
- Documentation Complete (Summer 2022)





# Questions and Feedback

Scan the QR code to complete a survey on the project  
*Comments due December 10, 2021*



Please also visit the project website at:

<https://www.fairfaxcounty.gov/transportation/study/seven-corners>

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