



Vision Zero in Alexandria

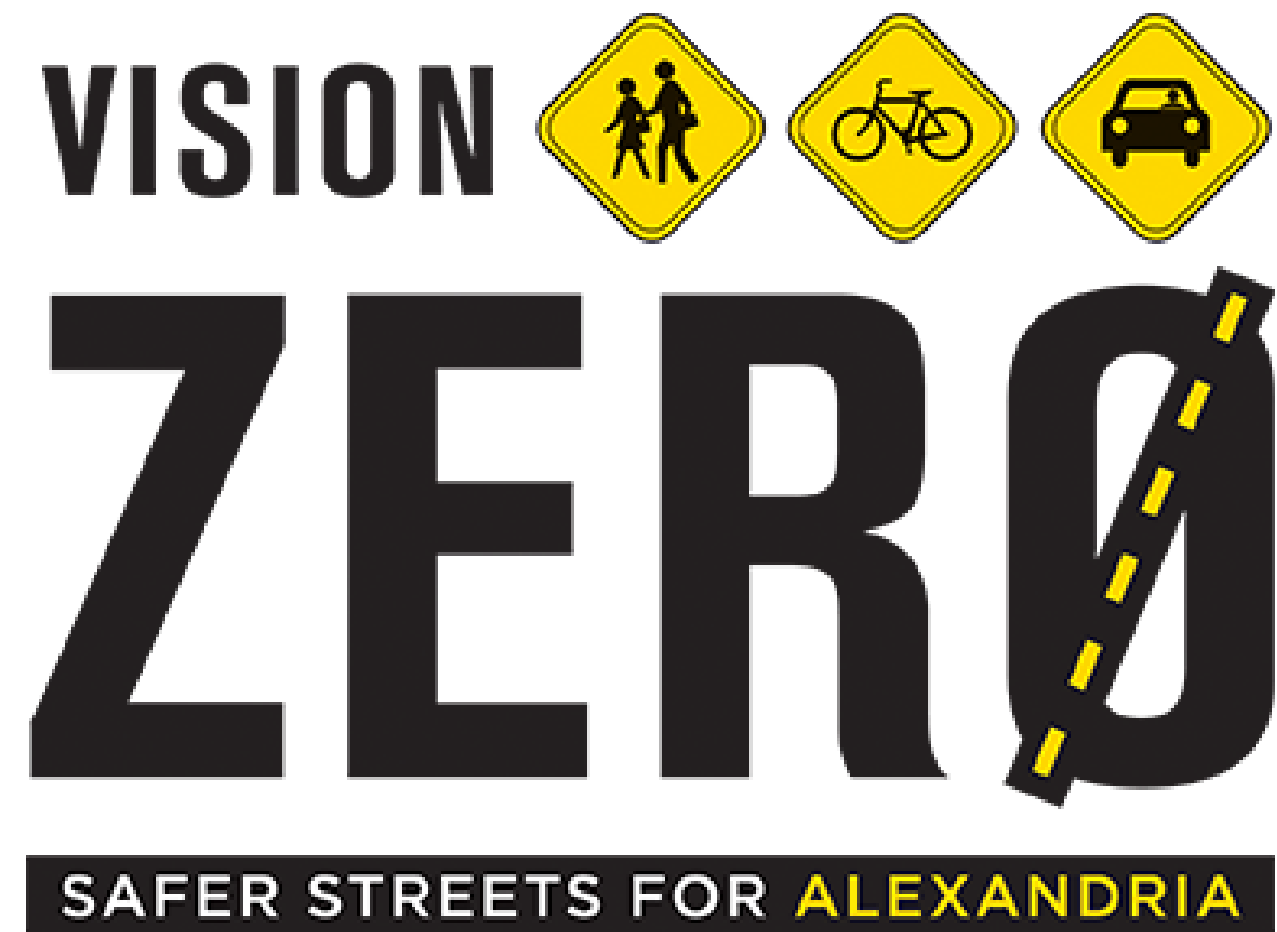
**MWCOG Bicycle and Pedestrian
Subcommittee Meeting | 03.19.24**

Outline

**Vision Zero
Overview**

**Project
Highlight**

**Additional
Work**



Vision Zero Action Plan, 2017

Zero fatal and severe injury crashes by 2028

Citywide Crash Analysis, 2022

Updated high-injury network

Vision Zero Annual Work Plan

Annual project priorities not tied to other programs

Project: Highlight: Duke Street/Route 1 Intersection Safety Improvements



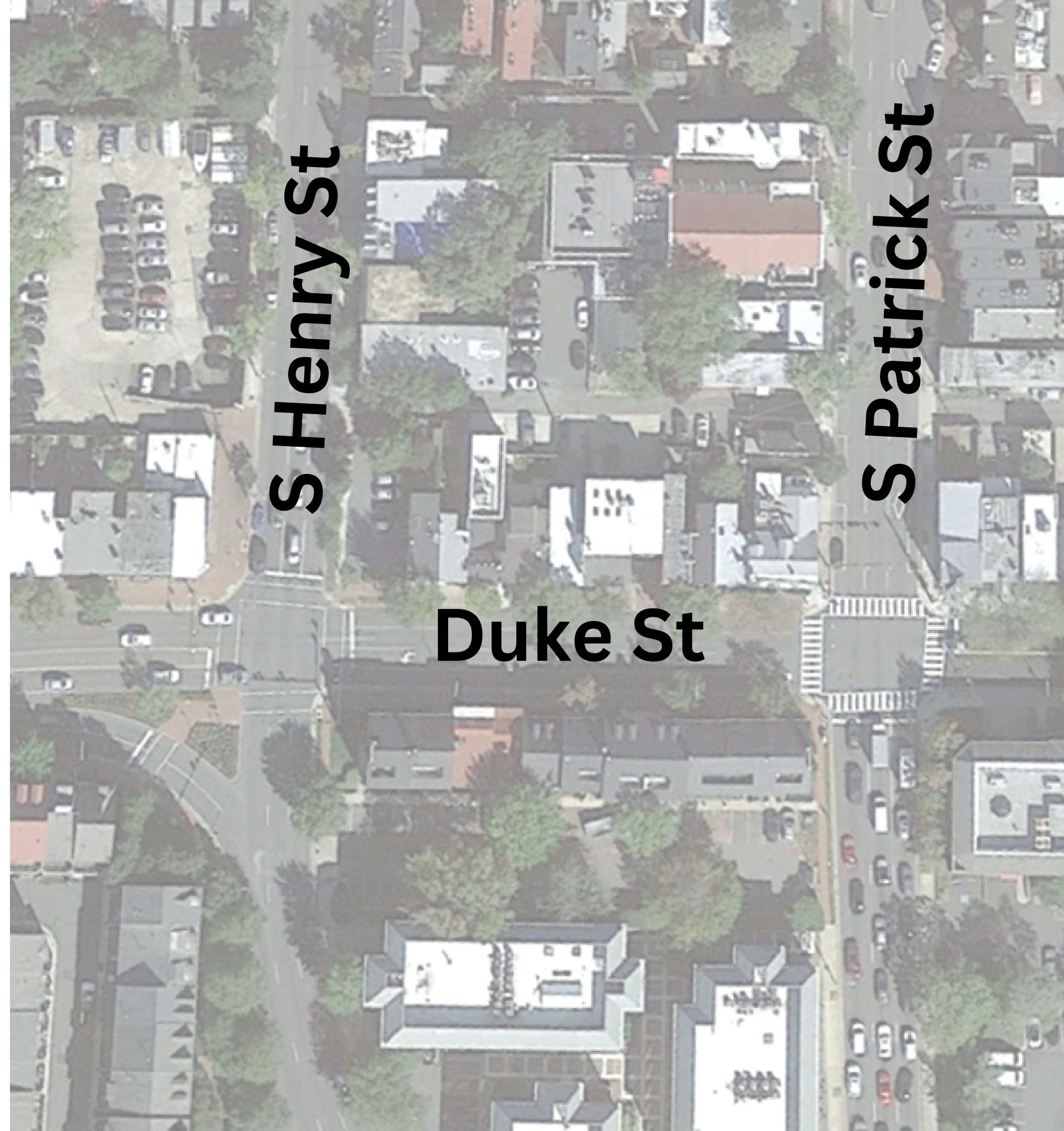
Metropolitan Washington
Council of Governments

Kimley»Horn



Project Overview

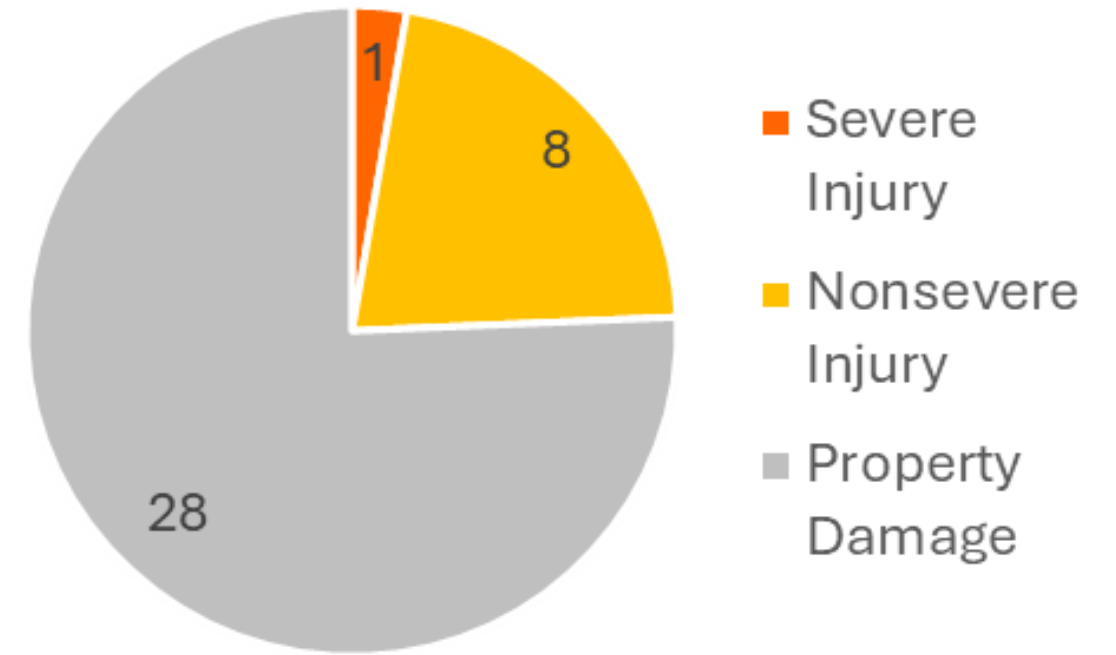
- **Project Goal:** Enhance traffic safety for all roadway users at the intersections of Duke Street and South Patrick Street and Duke Street at South Henry Street.
- **Over 35 crashes** have occurred at each intersection since 2015. The two intersections rank among the City's high-crash sites.



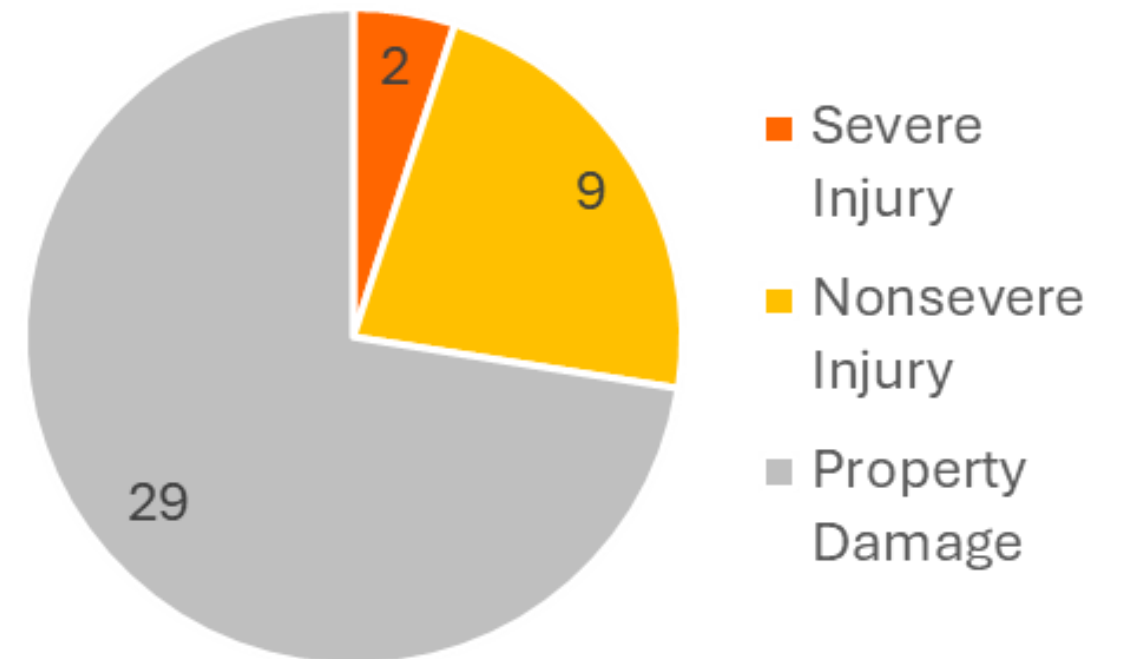
Crash Trends

2015-2022

S Henry St
Total Crashes: 37
Pedestrian Crashes: 2
Angle Crashes: 14



S Patrick St
Total Crashes: 40
Pedestrian Crashes: 2
Angle Crashes: 14



Community Input

- **67%** say South Henry Street is unsafe or very unsafe
- **47%** say South Patrick Street is unsafe or very unsafe
- Top concerns include:
 - People drive too fast
 - Unsafe turns
 - People disregard signs and signals
 - People block the intersection

“Drivers in the double right lanes to veer onto South Henry don’t see the traffic lights which make it dangerous for pedestrians having the signal to cross Duke.”

“Drivers block the intersection, turn without looking and drive too fast. Both my husband and I have almost been hit when walking, numerous times.”

“I find it very hard to see pedestrians at this intersection at night. It should be lit better. Pedestrians wear reflective gear and put flashing necklaces on their children so they are soon [sic] - they shouldn't have to do that.”

Safety Audit Summary

Objectives:

- Holistically observe from both driver and pedestrian perspectives
- Gain insight on driver and pedestrian behaviors and interactions
- Assess the functionality of existing infrastructure through qualitative observation
- Identify potential safety hazards for all road users
- Identify potential measures to eliminate/mitigate safety problems



Safety Audit Findings

Observed issues related to:

- Signal operations
- Roadway geometry
- Visibility
- ADA accessibility
- Traffic
- Lighting



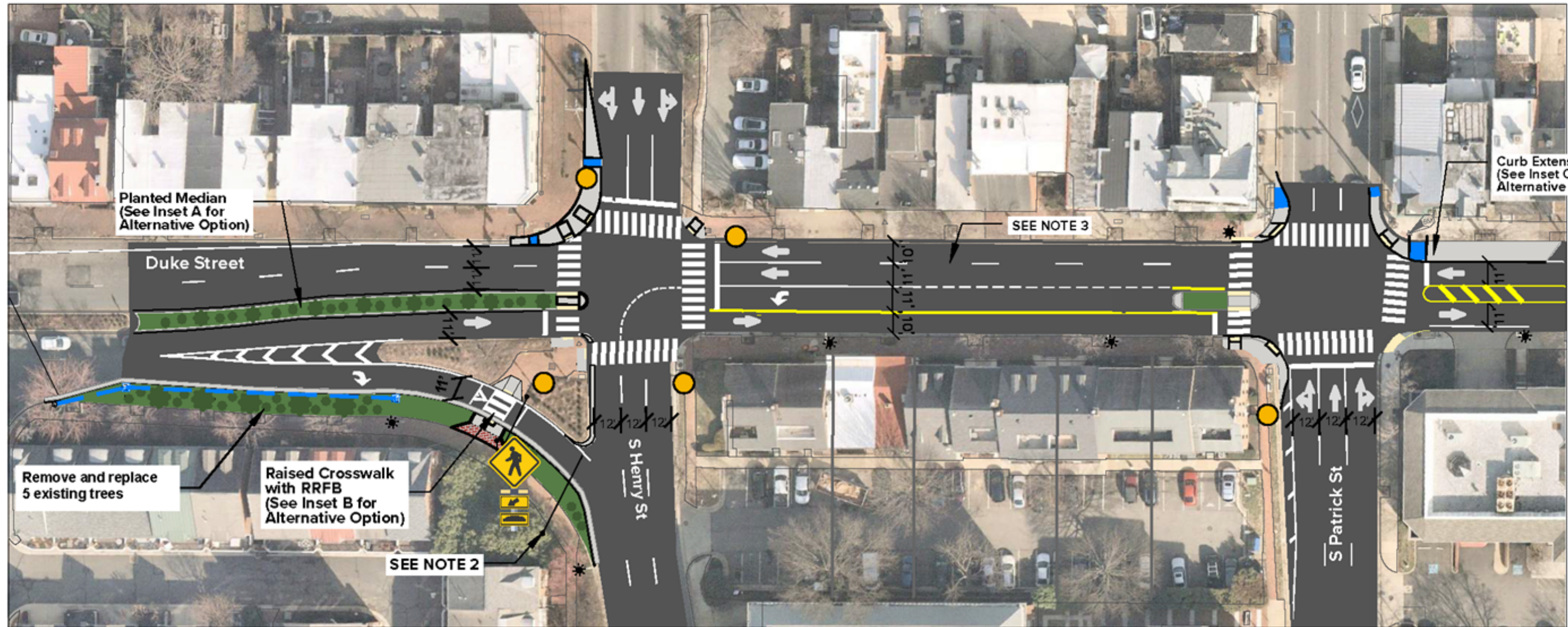
This crossing at South Patrick Street is not ADA accessible, and the utility poles block visibility of pedestrians waiting to cross.



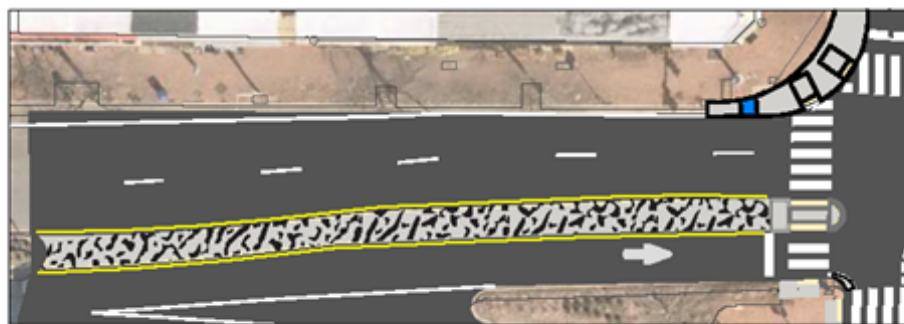
The slip lanes from Duke to South Henry Street encourage high-speed turns, and drivers were observed not stopping for pedestrians with the right-of-way.

Concept Designs

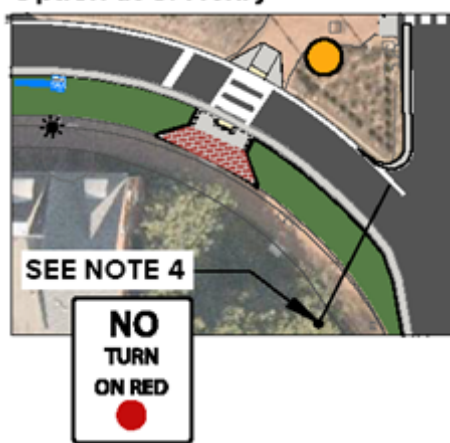
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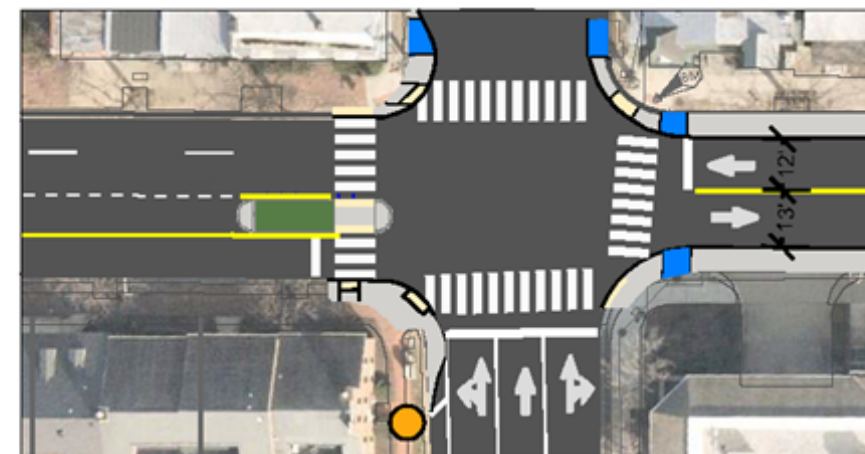
INSET A: Artistic Median Option at S. Henry



INSET B: Alternative Crosswalk Option at S. Henry



INSET C: Alternative East Leg Curb Extensions at S. Patrick



NOTES

1. Leading pedestrian intervals to be implemented at S. Henry St. and S. Patrick St. signalized crossings
2. Signal infrastructure and signal operations to be removed
3. Lane widths match existing conditions
4. Signal infrastructure to remain
5. Emergency Vehicle preemption to be included at all approaches



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Duke Street Safety Improvements
Proposed Concept

LEGEND

- Asphalt Art Opportunity
- Proposed Brick Fill
- Existing Light Pole
- Tactile Surface
- Proposed Landscape Fill
- Proposed Stormwater Pipe /Inlet
- Concrete Fill
- Proposed Light Pole
- Proposed Tree

Next Steps

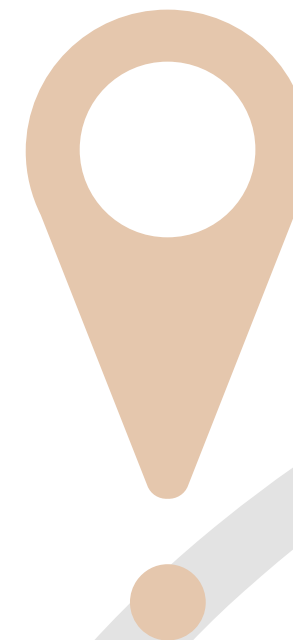
Smart Scale Grant Application
Fall 2024



Traffic & Parking Board Public Hearing
March 25, 2024



Community Comment Period
February-March 2024



Additional Work

- South Pickett Street Corridor Improvements (TLC FY24)
- Pedestrian Lighting Study (RRSP FY24)
- Edsall Road Corridor Improvements (TLC FY25)
- Seminary Road Safety Study (RRSP FY25)
- West End High-Crash Intersection Audits
- Duke Street in Motion
- Eisenhower Avenue Transportation Study
- Mount Vernon Avenue North
- King Street-Bradlee Corridor Improvements
- Duke Street Turn Calming

More information: alexandriava.gov/VisionZero

Thank you!

Alex Carroll

Complete Streets Program Manager

City of Alexandria

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