

# **Pedestrian and Bicycle Master Plan Update**

City Council

April 16, 2016

# Primary Project Objectives

- Update Pedestrian and Bicycle section of Transportation Master Plan
  - Improve safety for pedestrians and bicyclists
  - Provides priorities and focus
  - Similar to Transit Chapter of Transportation Master Plan
  - After plan adoption, second phase of detailed design and analysis, and public outreach to occur with projects
- Develop Complete Streets Design Guidelines
  - Design guidance for staff, developers, and community



# Council Role

- Receive update on the draft Pedestrian and Bicycle Master Plan
- Hold a public hearing on the Pedestrian and Bicycle Master Plan and Master Plan Amendment
- Approve amendment to the Transportation Master Plan chapter of the Alexandria Master Plan, to replace the Pedestrian and Bicycle sections of the Transportation Master Plan

# Civic Engagement





# Pedestrian and Bicycle Master Plan

- Introduction
- Walking in Alexandria
- Bicycling in Alexandria
- Implementation
- Appendices
  - Civic Engagement Plan
  - Civic Engagement Summary
  - Progress Report
  - Case Study Areas
  - Funding Sources
  - Methodology
  - Prioritization Results

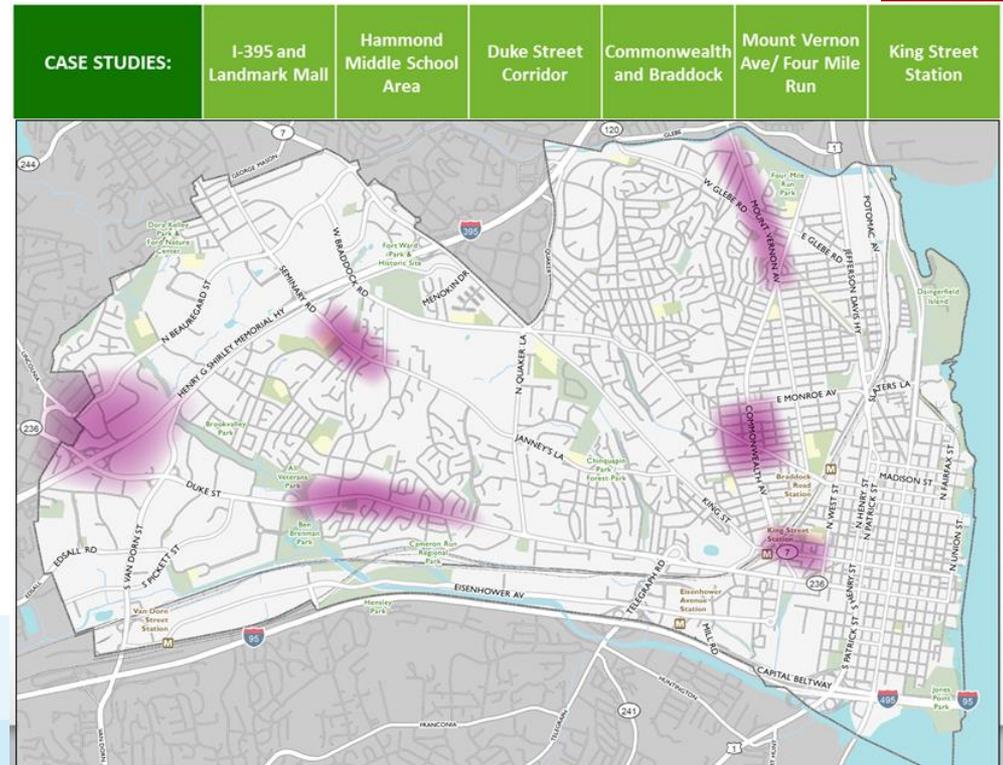
# SUMMARY - Pedestrian Recommendations



**Over 500 Facility Recommendations in Six Study Areas**

**Ten prioritized new sidewalk projects distributed throughout the City**

- Nearly 4 miles of new priority sidewalks





# Key Pedestrian Strategies

## Engineering Strategies

- Apply the Complete Streets Design Guidelines for all new development and future capital improvement projects.
- Close sidewalk gaps and improve sidewalks where needed.
- Prioritize and standardize curb ramp upgrades and other ADA improvements.
- Reduce conflicts between bikes and pedestrians on sidewalks
- Maintenance and snow removal of pedestrian facilities

## Program / Policy Strategies

- Conduct evaluation of traffic fatalities and develop a Vision Zero Program
- Pursue funding to oversee education and outreach for pedestrian safety
- Pursue funding for high priority pedestrian projects
- Partnerships with Health Department and Schools



# SUMMARY - Bicycle Recommendations

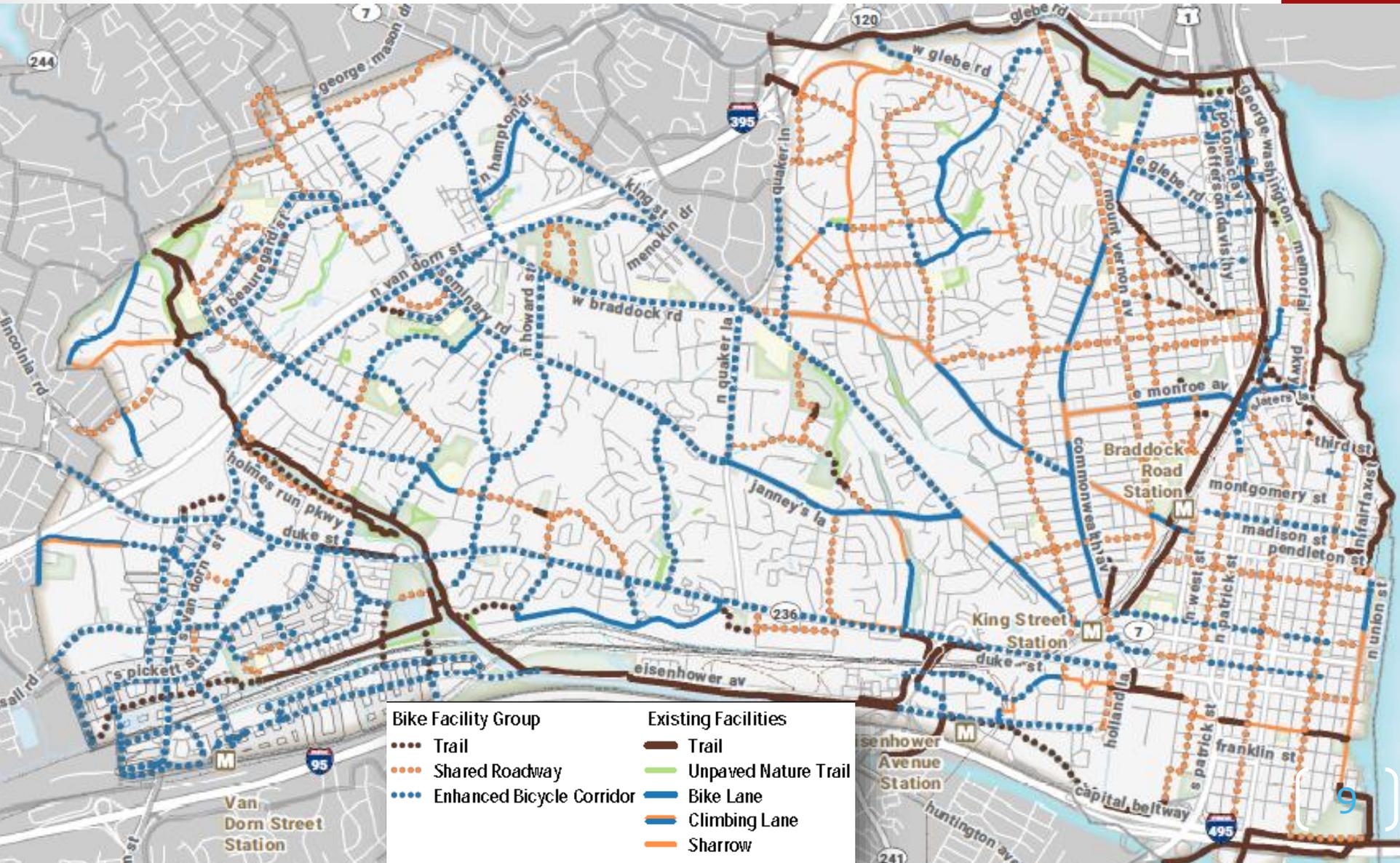
## Over 88 miles of NEW Bicycle Facilities

- 44 miles of Enhanced Bicycle Corridors
- 36 miles of Shared Roadways
- 8 miles of New Trails

## Continuous Connections to Major Destinations

- Mark Center
- Potomac Yard
- Mount Vernon Trail
- Old Town
- Van Dorn/ Eisenhower Metro
- Landmark Mall
- Beauregard / West End
- Shirlington

# Proposed Bicycle Network





# Key Bicycle Strategies

## Engineering Strategies

- Expand the on-street bicycle network through additional bike lanes, routes and shared lane markings
- Implement / evaluate protected bike lanes and neighborhood bikeways
- Improve access and safety for all users on trails, particularly at entrance / exit points
- Maintenance and snow removal of bicycle facilities
- Expand Capital Bikeshare system and seek additional operation funding opportunities

## Program / Policy Strategies

- Conduct construction inspections to ensure safe / accessible bike/pedestrian accommodations during construction
- Pursue funding for high priority bicycle projects
- Partnerships with Health Department and Schools
- Partner with Local Motion and Police to build upon the regional safety campaign
- Bicycle education, outreach and promotion to underrepresented groups

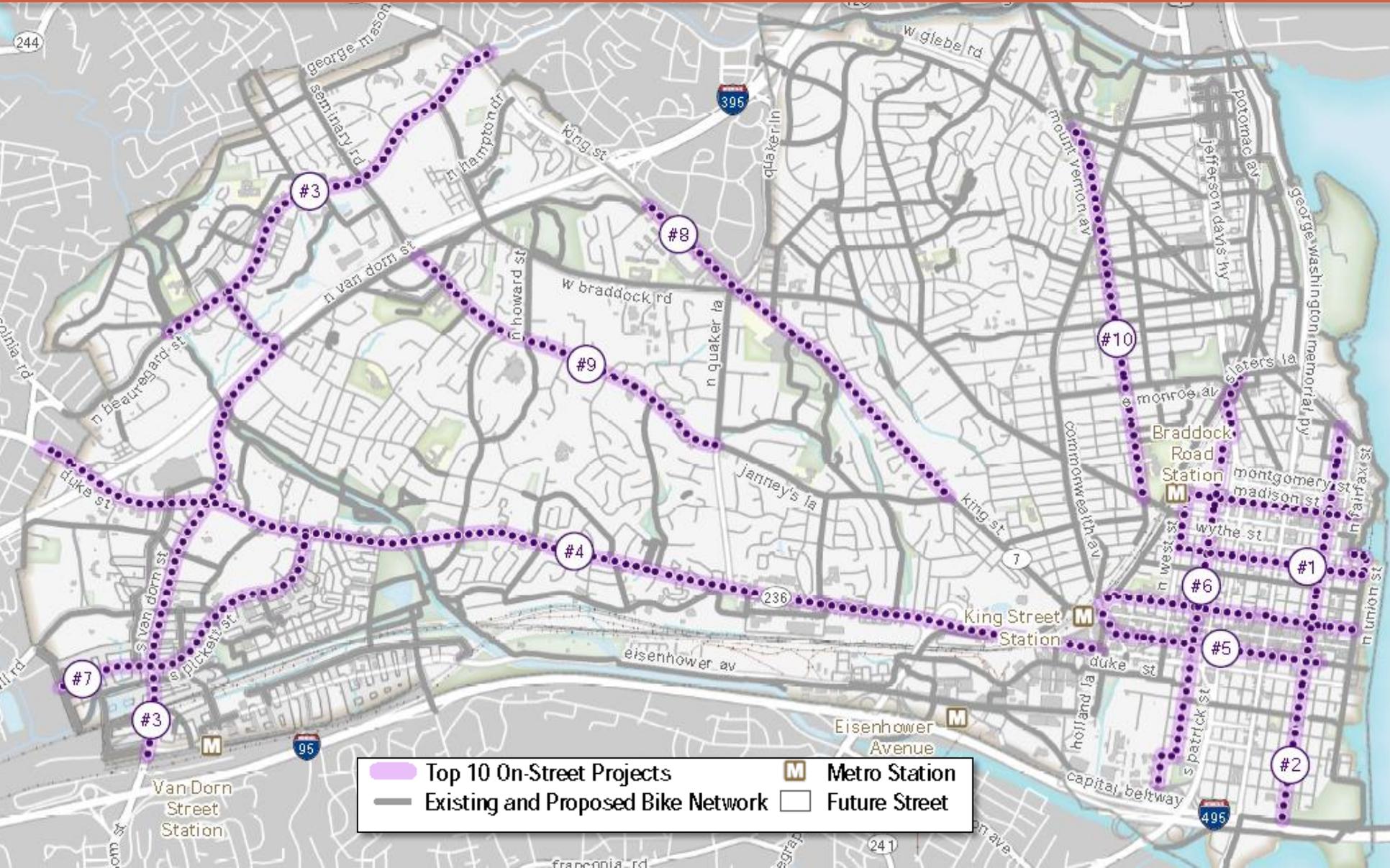


# Implementation

- Implement Project Priorities through City's budget process and grants
- Develop a Vision Zero policy and program
- Continue to implement pedestrian / bike improvements in coordination with development and street resurfacing
- Implement Case Study improvements through Complete Streets program and grants

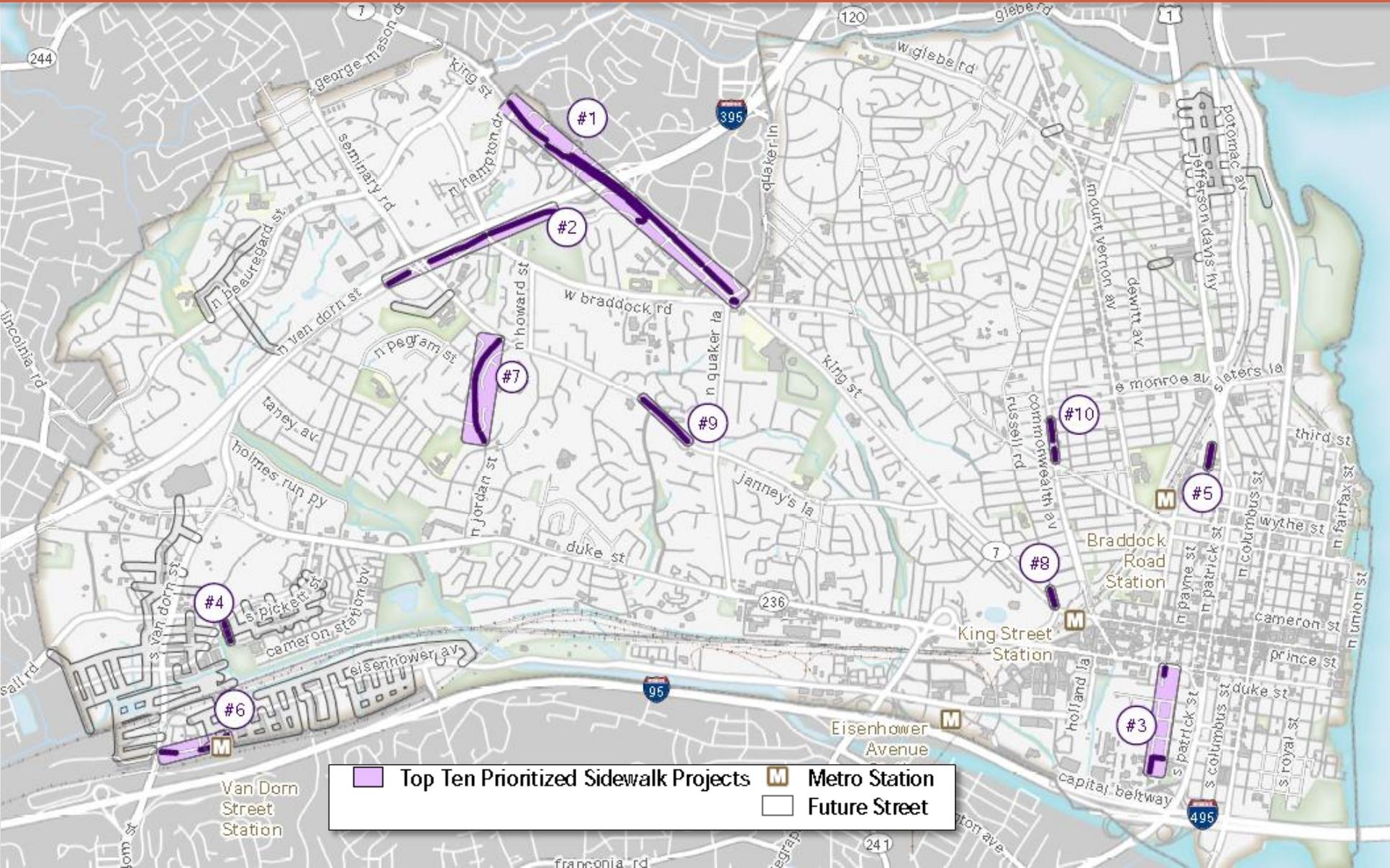


# Prioritized On-Street Bicycle Projects



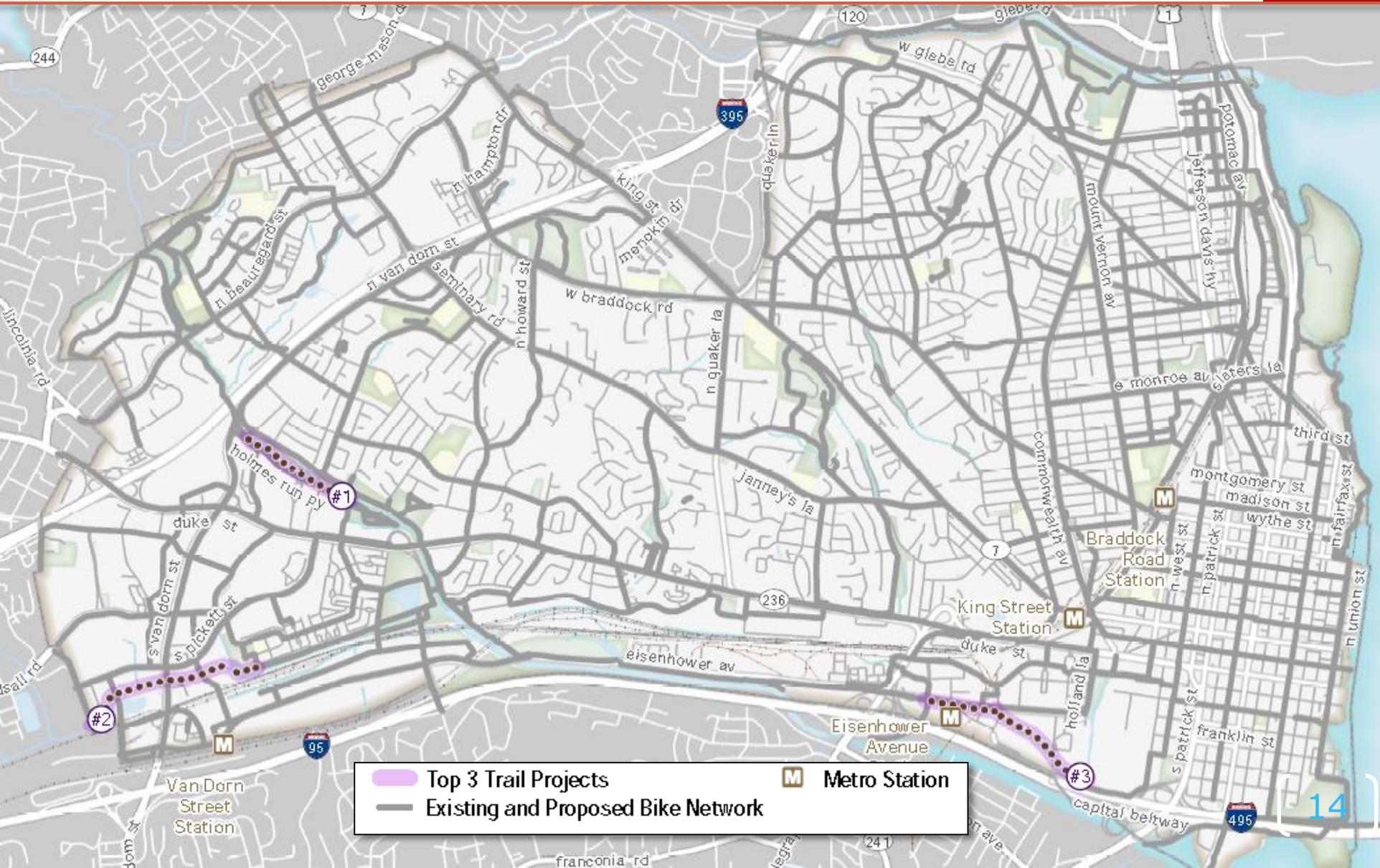


# Prioritized Sidewalk Projects



 Top Ten Prioritized Sidewalk Projects	 Metro Station
 Future Street	

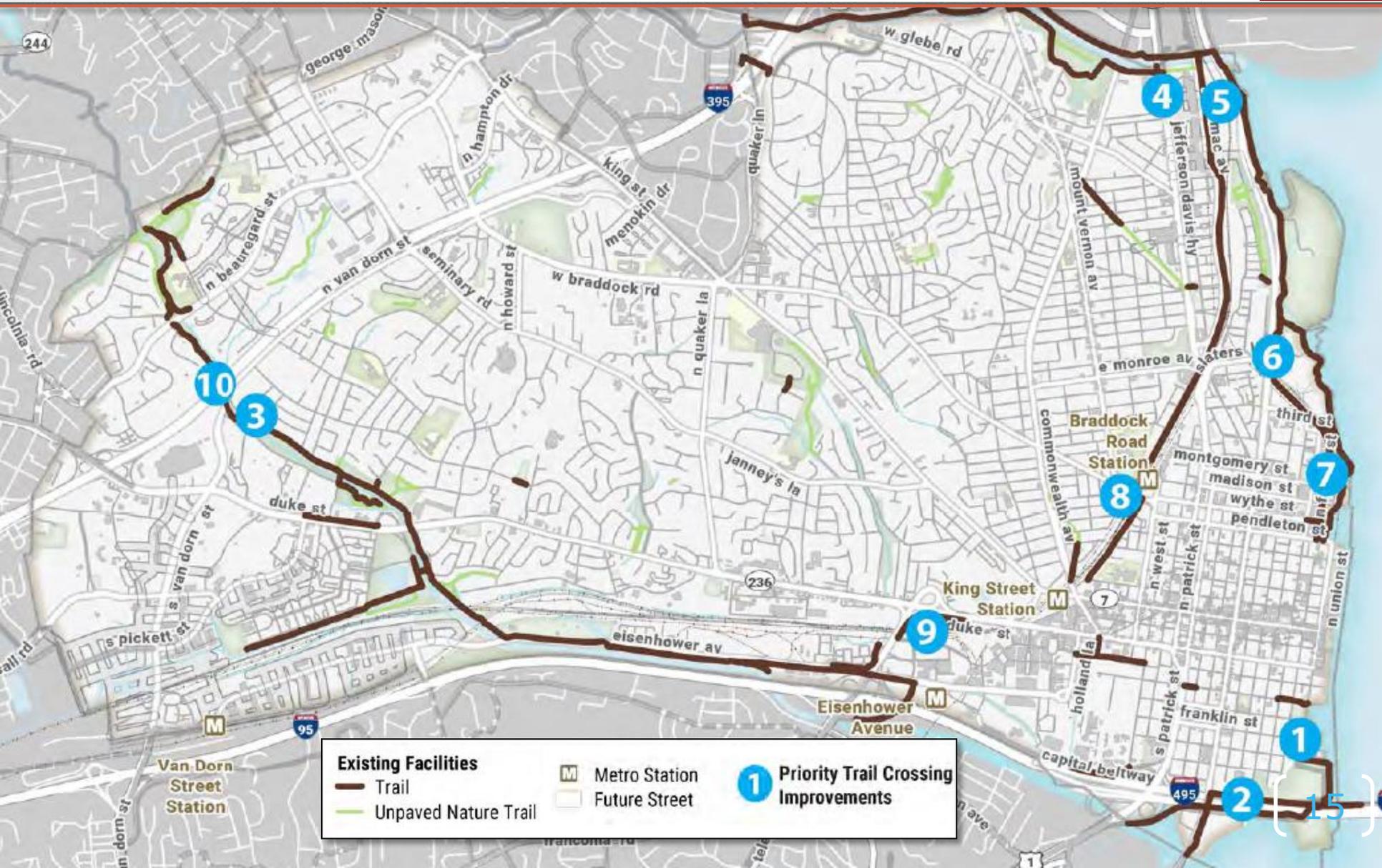
# Prioritized Trail Projects



 Top 3 Trail Projects  
 Existing and Proposed Bike Network  
 Metro Station



# Priority Trail Crossing Improvements





# Ad Hoc Advisory Committee

- February 25, 2016 - Endorsed approval of Pedestrian and Bicycle Master Plan, emphasizing:
  - Vision Zero initiative
  - Routine updates on status of plan / Report Card
  - City should pursue funding sources to implement the plan
  - Continue public engagement as projects are implemented

# Transportation Commission Action



- March 16, 2016 - Endorsed approval of Master Plan Amendment with following:
- Pedestrian Engineering Strategy #5:
  - Add language to provide automatic pedestrian signals where feasible to minimize pedestrian delay
- Bicycle Program / Policy Strategy #12:
  - Include partnering with ACPS and include children as an underrepresented group
- Provide funding to implement the plan vision, goals, strategies and priority projects



# Planning Commission Action

- April 5, 2016 - Approval of Master Plan Amendment with following:
- Pedestrian Engineering Strategy #5:
  - Add language to provide automatic pedestrian signals where feasible to minimize pedestrian delay
- Bicycle Program / Policy Strategy #12:
  - Include partnering with ACPS and include children as an underrepresented group



# ALEXANDRIA COMPLETE STREETS DESIGN GUIDELINES

## Vision

Streets are vital to the health, mobility, and accessibility of Alexandria's residents, workers, and visitors. Alexandria aspires to have a comprehensive, integrated transportation network with design that allows safe and convenient travel for people of all ages and abilities, including children, older adults and individuals with disabilities. The network should accommodate all users, including pedestrians, bicyclists, transit users, and motorists and incorporate green infrastructure to enhance the city's environmental quality.

## Guiding Principles



**HEALTH AND SAFETY  
FOR ALL USERS**



**NEIGHBORHOOD AND  
ECONOMIC VITALITY**



**SUSTAINABLE  
DESIGN**



**PLACEMAKING AND  
NEIGHBORHOOD CHARACTER**



**ACCOMMODATE ALL MODES  
OF TRAVEL**

# ALEXANDRIA COMPLETE STREETS DESIGN GUIDELINES



## Alexandria Street Typology

Alexandria's street typologies offer a balance between functional classification, adjacent land uses, and the competing needs of all modes of transportation. Each street typology prioritizes users and various design elements based on the context and character of the street. Within Alexandria's constrained public right-of-way, trade-offs must be balanced and should encourage healthy and active transportation options such as bicycling and walking.



# ALEXANDRIA COMPLETE STREETS DESIGN GUIDELINES



## Alexandria Street Typology

COMMERCIAL CONNECTOR

MAIN STREET

NEIGHBORHOOD RESIDENTIAL

PARKWAYS

SHARED STREETS

MIXED-USE BOULEVARD

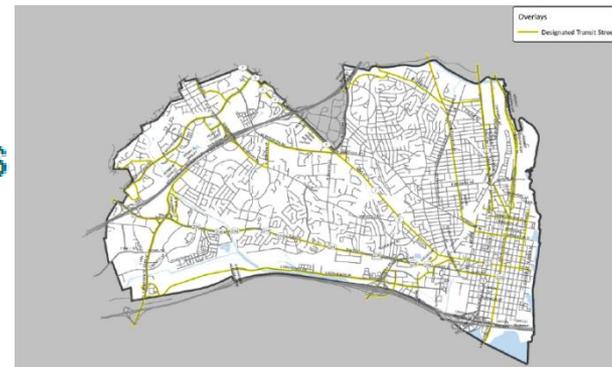
NEIGHBORHOOD CONNECTOR

INDUSTRIAL

## Street Overlays

TRANSIT STREETS BICYCLE NETWORK STREETS

HISTORIC STREETS AND ALLEYS





# Next Steps

- **May:** Ordinance to amend the Alexandria Master Plan