

# ARTERIAL

PRESERVATION PROGRAM

US 58 Arterial Preservation Plan – Study Recommendations

*September 4, 2019; 5:00 PM – 7:00 PM*

*South Hill, VA*

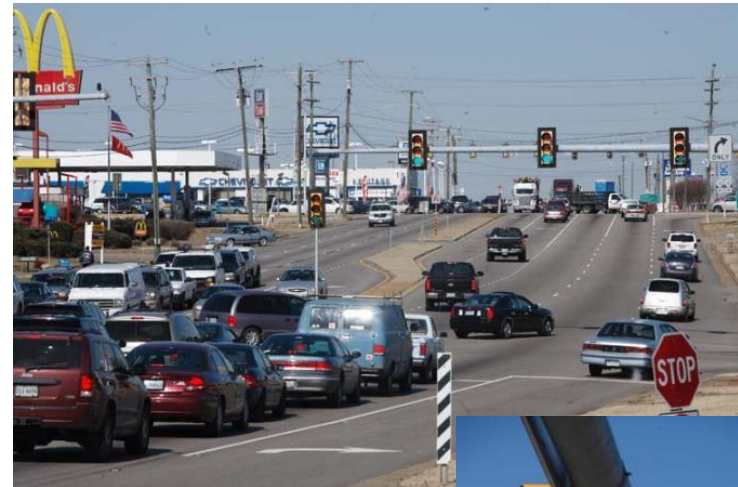


# Arterial Preservation Program

Background

# Summary of Program Goals

- To preserve and enhance the capacity and safety of Virginia's critical transportation highways:
  - Reduce congestion on arterial mainline
  - Minimize delays
  - Improve safety
  - Limit the number of conflict points



# Implementation Strategies

- Integrate program priorities with local economic development goals
- Improve access management
- Educate communities on the benefits of improved mobility
- Inspire coordinated transportation and land use planning efforts
- Eliminate unwarranted traffic signals
- Implement innovative intersection configurations

# Why This Matters

- Preparing for future traffic and economic development reduces the need for expensive, disruptive "retrofit" projects
- Route 58 is anticipated to see additional commercial and residential development
- Route 58 provides access to local destinations, the Port of Virginia, and tourist destinations



# Arterial Preservation Program

Access Management Overview

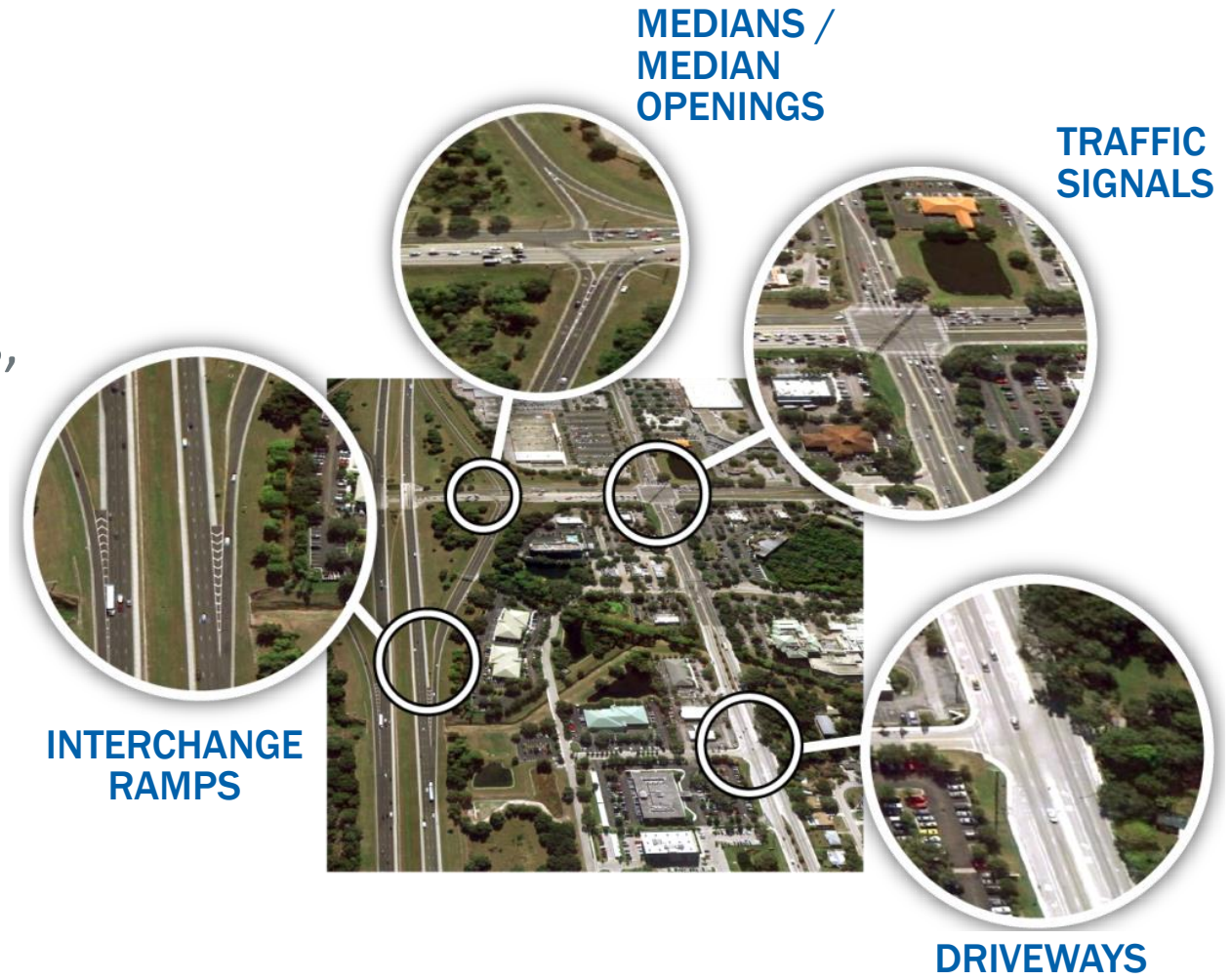
# Access Management

## What is Access Management?

Access management involves the location, spacing, and design of driveways, medians, median openings, traffic signals, and interchanges

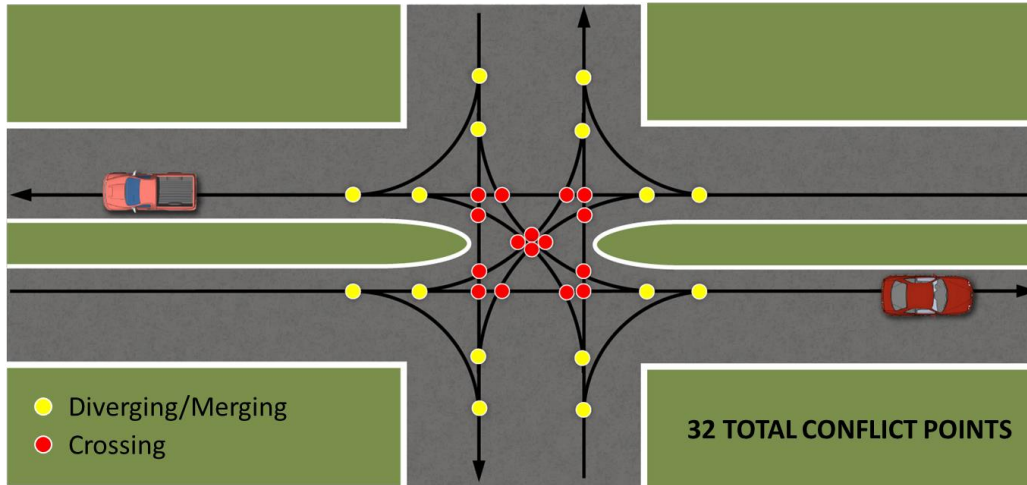
## Guiding Principles

- Limit the number of conflict points
- Separate conflict points
  - Reduce the number of median openings
  - Improve driveway design
  - Consolidate driveways to reduce frequency
- Look at conflict points from a network perspective

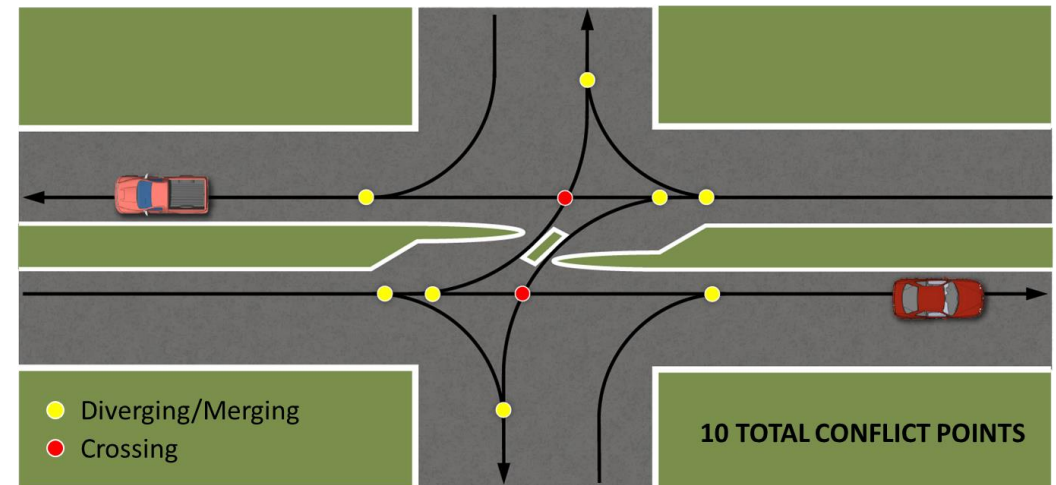


# Conflict Points

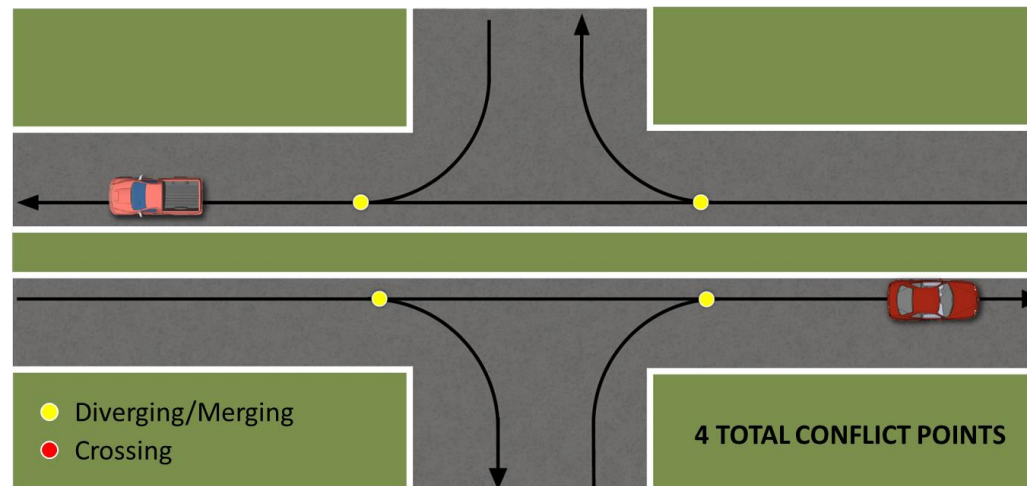
FULL UNSIGNALIZED MEDIAN OPENING



DIRECTIONAL MEDIAN OPENING



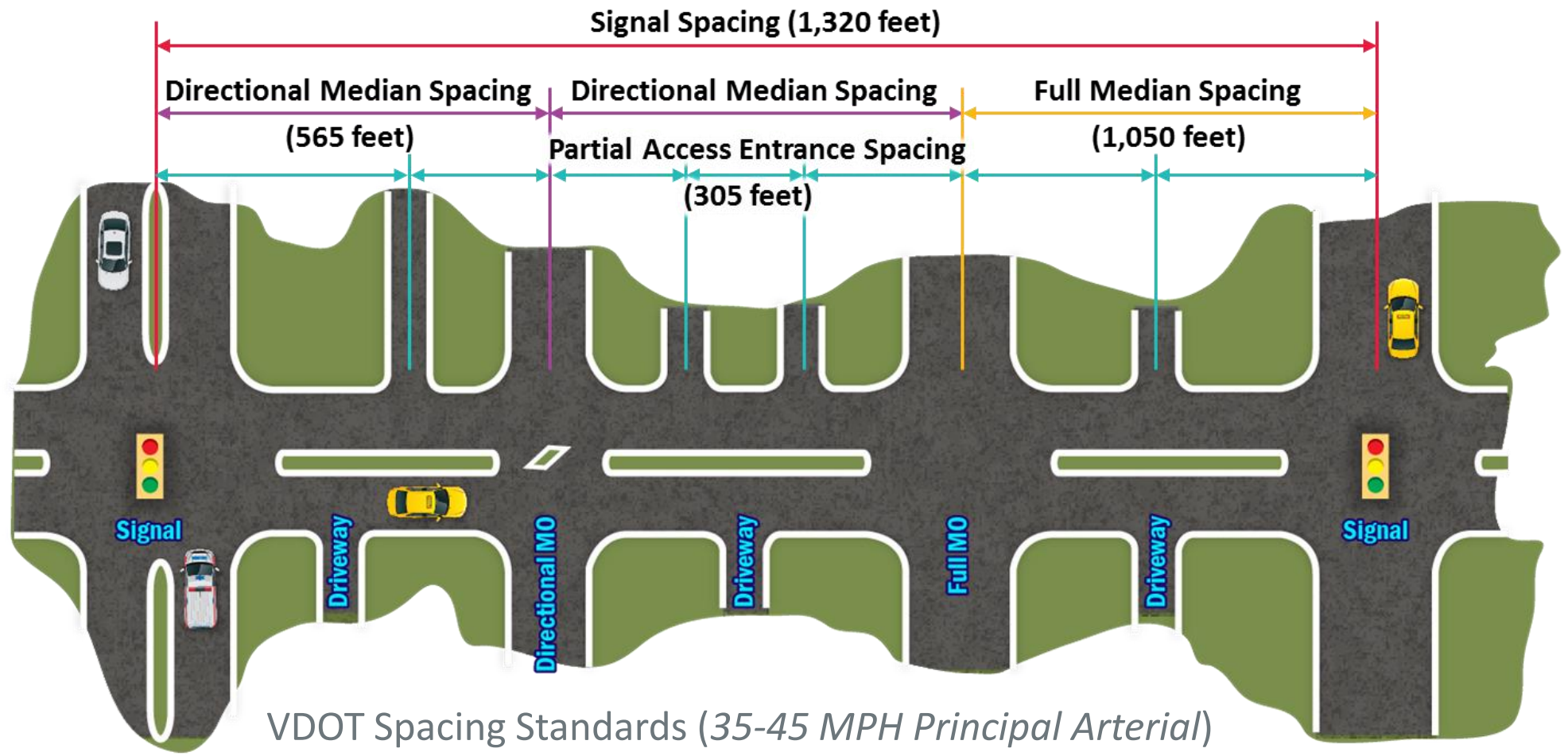
RIGHT-IN/RIGHT-OUT DRIVEWAY





# Access Management Guidelines

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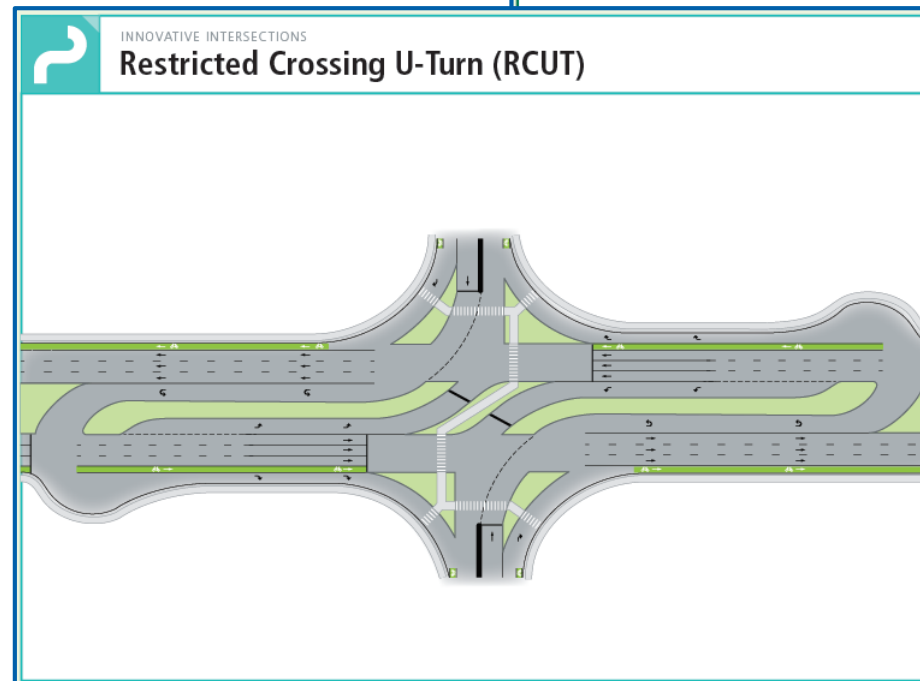
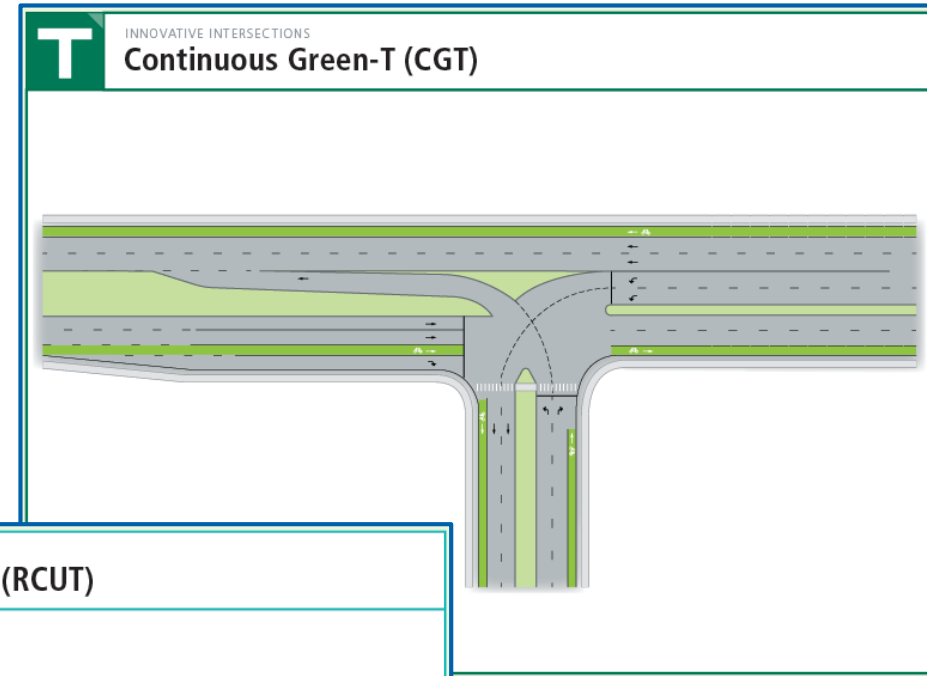
VDOT Spacing Standards (35-45 MPH Principal Arterial)

# Arterial Preservation Program

Innovative Intersections Overview

# Innovative Intersections

- Intersection designs which:
  - Improve safety
  - Reduce delay
  - Increase efficiency
- Can reduce delays and crashes as much as 50%
- Also known as:
  - Alternative
  - Non-traditional
  - Unconventional
  - Reduced Conflict



# Innovative Intersection Videos



# Arterial Preservation Plan

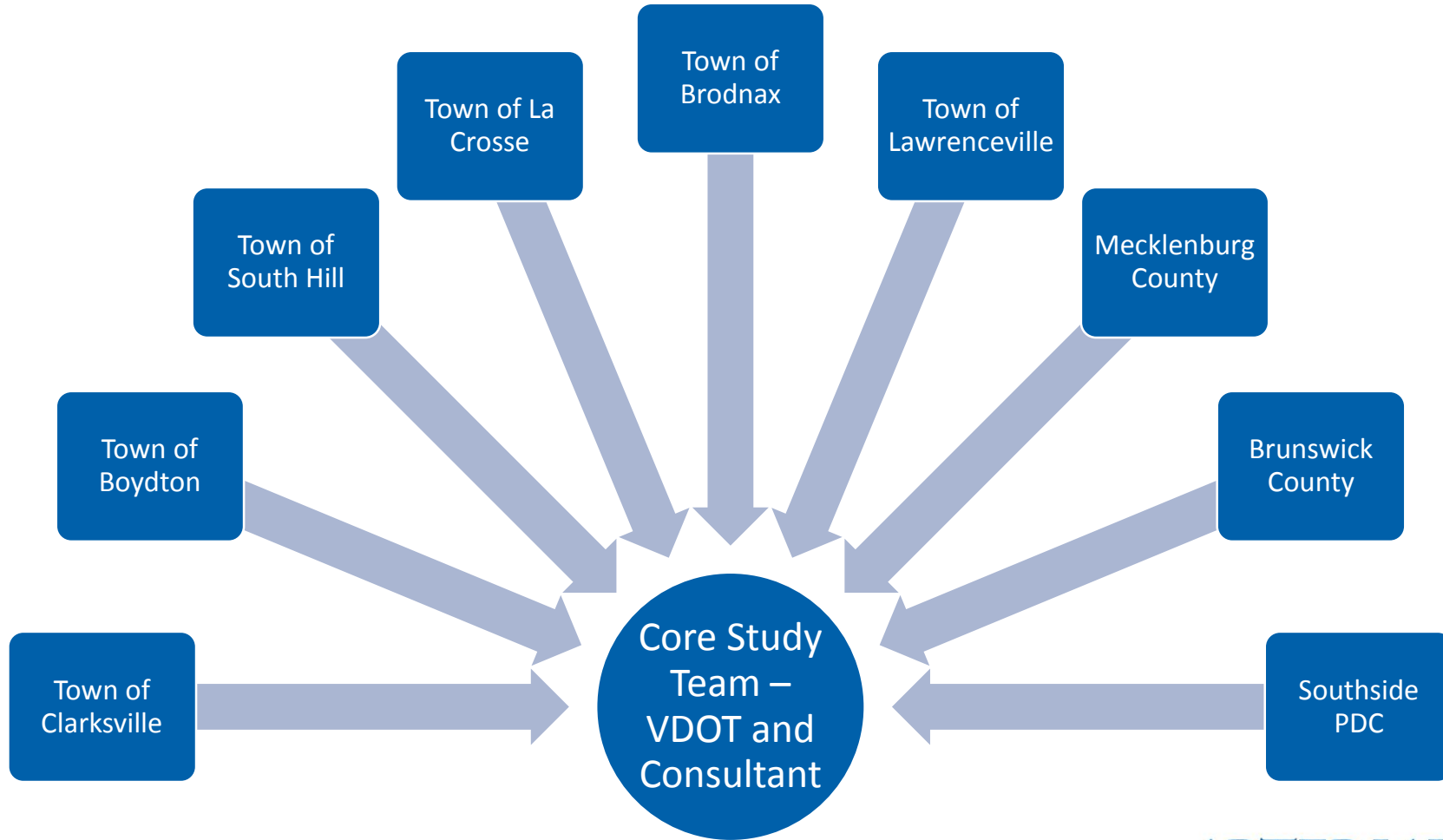
US 58 Corridor

# Study Corridor

US 58 from Greenville-Brunswick County Line to Mecklenburg-Halifax County Line (65.7 miles)



# Project Stakeholders / Working Group



# Key issues identified in study corridor

- Safety concerns
  - Lack of adequate shoulders
  - Poor sight distance at intersections in certain locations
  - Higher levels of crashes in dense commercial and developed areas
  - Below standard turn lanes
- Operational challenges
  - High number of crossovers and access points
  - Delay in more developed areas
- Maintaining local access
- Future traffic growth



# Recommended Concepts

- There are 88 crossovers and 75 intersections along the corridor
- Recommended concepts were prepared for each of the above and are available tonight for your review

# How to Read the Figures

US 58 Arterial Preservation Plan



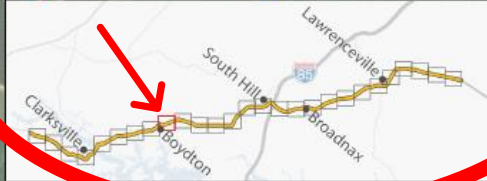
HALIFAX COUNTY LINE

BRUNSWICK COUNTY LINE

US 58 Arterial Preservation Plan  
 Figure 11  
 Intersections & Median Crossovers  
 Mecklenburg County

I-# - Intersection	C-# - Crossover #
Intersection 30: Washington St with US 58	
Recommendation: See Figure 12	
Cost: \$1.2M to \$1.9M	
Intersection 31: US 58 BUS with US 58	
Recommendation: See Figure 13	
Cost: \$1.1M to \$1.4M	
Crossover 21:	
Recommendation: Remove crossover	
Cost: \$0.2M to \$0.3M	
Intersection 32: Herbert Dr with US 58	
Recommendation: Lengthen all existing turn lanes on US 58. Smart Scale Application-UPS 113297	
Cost: \$2.1M	
Crossover 22:	
Recommendation: No recommendations	
Cost: Not Applicable	

● No Recommendation  
● Recommended Removal  
● Minor Improvement  
● Major Improvement





**US 58 Arterial Preservation Plan  
Figure 11  
Intersections & Median Crossovers  
Mecklenburg County**

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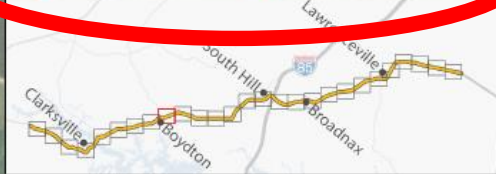
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HALIFAX COUNTY LINE

BRUNSWICK COUNTY LINE

### Route 58 Arterial Management Plan Figure 12 Intersection #30: US 58 and Washington St Mecklenburg County

**Recommendation:** Reconfigure intersection of US 58 and Washington St to Continuous Green-T (CGT). Construct U-turn area west of main intersection to permit southbound movements from Washington St to cross US 58. Extend eastbound right-turn lane to U-turn area and reconstruct existing turn-lanes on US 58 to VDOT Design Standards.

ROW: ... All improvements are within ... ROW

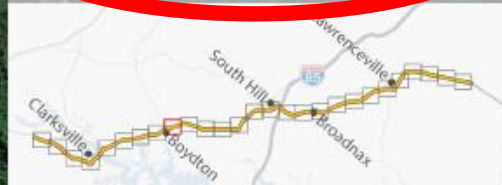
**Improvement Type:** Safety, Travel Time Preservation

#### Operations & Safety:

Traffic Operations	Reduced delay times for vehicles traveling eastbound on US 58 from southbound Washington St
Safety	Reduced conflict points where vehicles cross paths. Reduced risk of angle crashes from Washington St onto US 58

Cost: \$1.2M to \$1.9M

- Standard Movements
- Re-routed Movements



# Public Input

- View boards around the room
- Look up specific locations in recommendations packet
- Speak with consultant and VDOT staff
- Provide written comments

# Next Steps

- Review meeting input and finalize study report
  - Report will be available on VDOT project website once complete
- Work with Town & County officials to implement solutions
  - Identify priorities & seek funding
  - Concepts do not advance without local support
  - No date has been established for construction
  - Recommendations will be implemented as opportunity and funding permits



# How to find more information

- Arterial Preservation Program Website

[http://www.viriniadot.org/programs/vdot\\_arterial\\_preservation\\_program.asp](http://www.viriniadot.org/programs/vdot_arterial_preservation_program.asp)

- Innovative Intersections Website

<http://www.viriniadot.org/innovativeintersections/>

- US 58 Arterial Preservation Plan Website

[http://www.viriniadot.org/projects/richmond/us\\_58\\_arterial\\_preservation\\_plan.asp](http://www.viriniadot.org/projects/richmond/us_58_arterial_preservation_plan.asp)

# ARTERIAL

## PRESERVATION PROGRAM

US 58 Arterial Preservation Plan – Final Recommendations

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