

US 70 Multimodal Corridor Plan

DCHC MPO TC

US 70 Study Overview

- In-depth review of US 70 Corridor
 - NC 119 in Mebane to Orange/Durham County line (NC 751)
 - US 70 Business from NC 86 (Churton Street) to US 70
- Develop long-term vision for:
 - US 70 roadway itself
 - Surrounding communities and natural areas
- Focus is on preserving/enhancing:
 - Safety
 - Multi-modal options (access & connectivity)
 - Environmental features
 - Economic opportunities
- Project Study Team
 - City of Mebane & Town of Hillsborough
 - BGMPO & DCHC MPO
 - Alamance and Orange Counties
 - NCDOT
 - Consultant Team (VHB and Rose & Associates)





US 70 Study Background

- US 70 Corridor
 - ~19 miles: US 70 (minor arterial)
 - 3 miles: US 70 Bus (major collector/other arterial)
 - Links Durham, Hillsborough & Mebane
 - I-85 and I-40 handle bulk of traffic
 - Alternate route during I-85 incidents
 - Crucial northern access via NC 86 & NC 57
- Land Use Context
 - Significant natural & cultural constraints
 - Rural/Suburban/Urban: Varies by segment
 - Economic potential





US 70 Multimodal Corridor Study

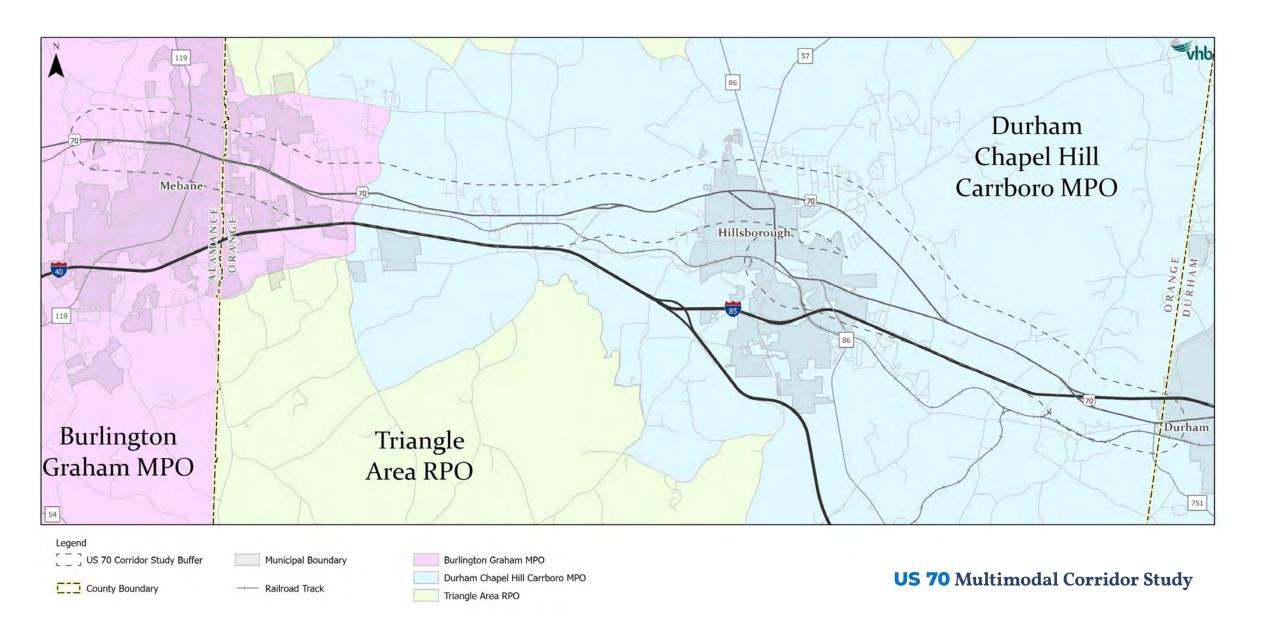
US 70 Study Background

- Roadway Characteristics
 - Primarily 2-lane with 4' paved shoulders
 - 120' ROW (RR constraints in Mebane)
 - 13 traffic signals
 - Primarily 45-mph speed limit
 - Rolling terrain & curvature in segments; limited passing
 - No bicycle facilities; limited pedestrian facilities
- Need better multi-modal access & functionality
 - Safety!
 - Transit options and access
 - Preserve & enhance environment
 - Provide economic opportunities
 - Balance desired improvements with long-term maintenance
 - Municipal/County/State





Corridor Location & Planning Jurisdictions



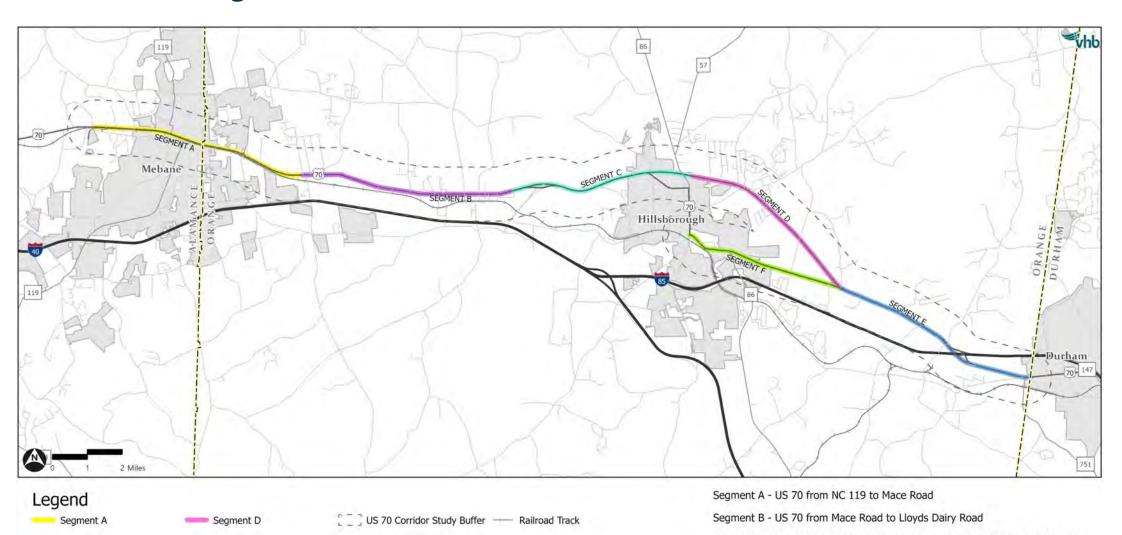
Corridor Segments

Segment E

Segment F

Segment B

Segment C



County Boundary

Municipal Boundary

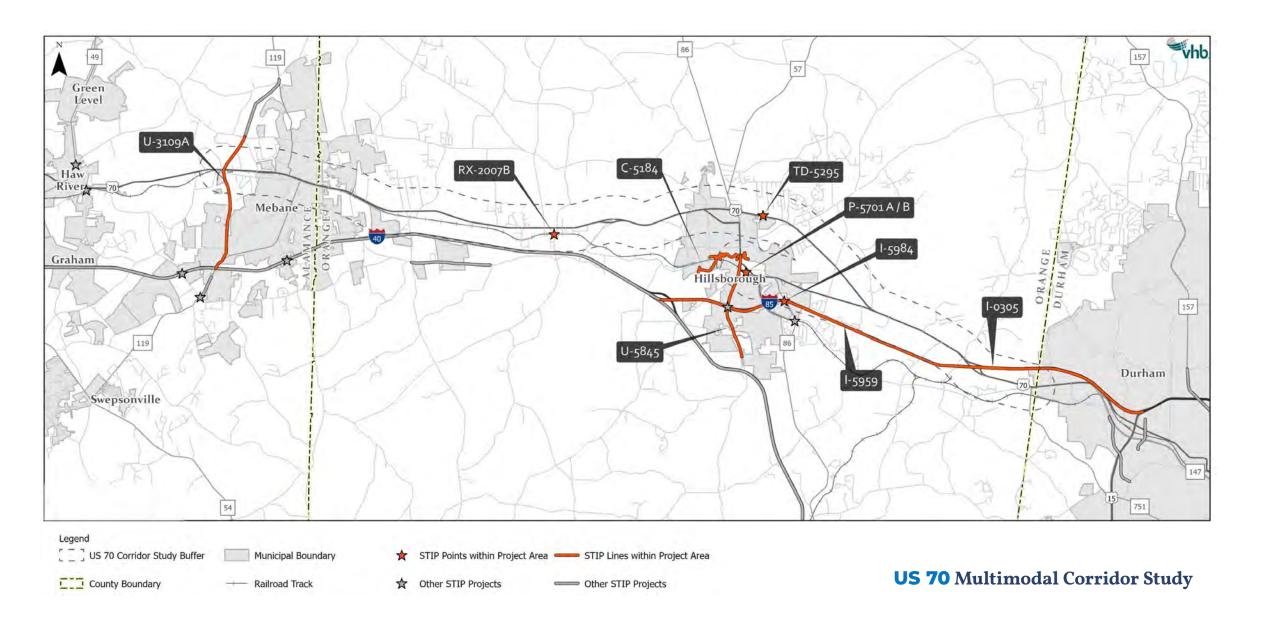
Segment C - US 70 from Lloyds Dairy Road to east of NC 86 (Churton Street)

Segment D - US 70 from east of NC 86 (Churton Street) to US 70 Business

Segment E - US 70 from US 70 Business to the Orange / Durham County Line

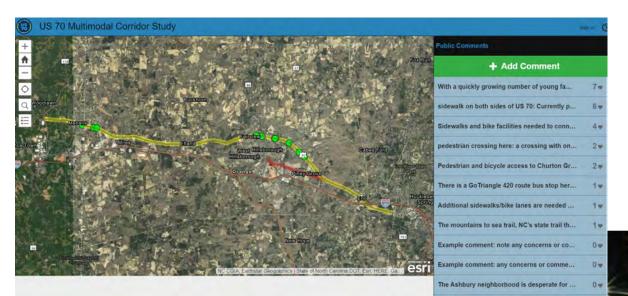
Segment F - US 70 Business from NC 86 (Churton Street) to US 70

Current 2020-2029 NCDOT STIP Projects



Project Website

- General project information
- www.us70west.com
- Interactive map/comment opportunity
- Public Meeting details





CORRIDOR STUDY NEWS

Interactive Map - Add your comments! NEW

Please utilize the online comment form and map to share your input on the U.S. 70 Corridor.

IN Launch Online Comment Form and Map »

Upcoming Events NEW

Three public meetings to be held in March have been announced.

View meeting details »

Welcome to the

US 70 Multimodal Corridor Study

The Durham Chapel Hill Carrboro Metropolitan Planning Organization (DCHC-MPO) is conducting a study of U.S. 70 West, from NC 119 in Mebane to U.S. 751 in Orange County. The Corridor Study ("the Study") will provide recommendations for future development of the transportation corridor.

A corridor study for a transportation corridor defines policies and actions that will guide how a corridor should be maintained or changed. This is a process that is community-led and relies on significant community involvement. This website will serve as the announcement board for events pertaining to the study and various activities the study will be undertaking.

The US 70 West Corridor has experienced and will continue to experience an explosion of residential and employment growth. Planning transportation use of the corridor moving forward will be integral to maintaining the community vision and character of the area, while celebrating growth and development.





Project Newsletter



The Durham Chapel Hill Carrboro Metropolitan Planning Organization (DCHC-MPO) is conducting a study of U.S. 70 West, from NC 119 in Mebane to U.S. 751 in Orange County. The Study will provide recommendations for future development of the transportation corridor with specific focus on multimodal facilities.

A corridor study for a transportation corridor defines policies and actions that will guide how a corridor should be maintained or changed. This is a process that is community-led and relies on significant community involvement. The project website (www.us70west.com) is a convenient resource for tracking the progress of the study, providing feedback, and checking the schedule and location of outreach activities.

Planning for the transportation use of the corridor moving forward is integral to maintaining the community vision and character of the area, while supporting growth and development.

Corridor Study Status

The study is expected to take approximately fifteen months, culminating with a published report in Fall 2023. The study team has analyzed the existing corridor with respect to traffic speeds and volumes, crashes, pedestrian and bicycle travel, transit service, and the character and condition of the roadway itself. Initial findings related to existing conditions will be available at the first round of community meetings. The team understands that the corridor is made up of many unique segments that will require tailored recommendations, and we need your input to help identify and prioritize both problems and potential solutions.





Community Meetings Round #1

- ★ MARCH 7 | 5:00-7:00 PM

 Passmore Center

 103 Meadowlands Dr, Hillsborough, NC 27278
- ★ MARCH 9 | 5:00-7:00 PM

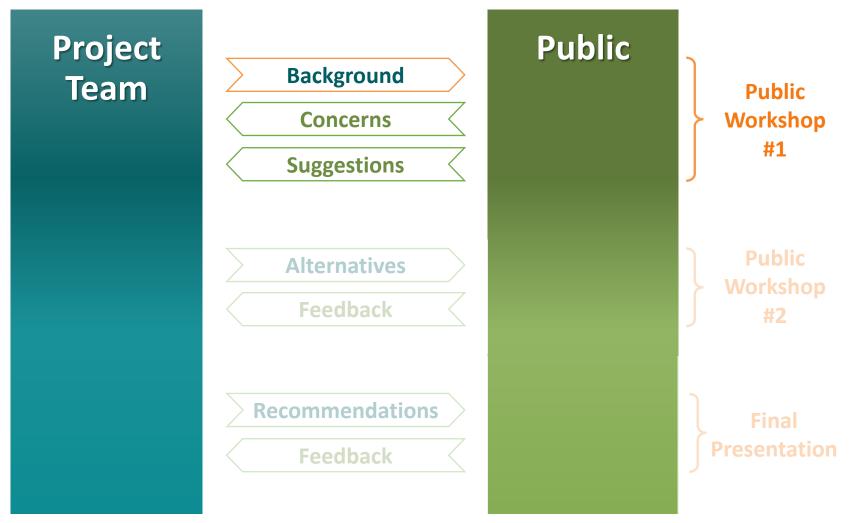
 Mebane Arts and Community Center

 633 Corregidor Street, Mebane, NC 27302
- ★ MARCH 14 | 5:00-7:00 PM

 Town Hall Annex

 105 E Corbin Street, Hillsborough, NC 27278

Public Participation – Round 1



Workshop Format

- Technical presentation at 5pm and 6pm
- Information boards with team members to have 1:1 discussions
- Interactive Activities
 - Sticker activity for problem identification
 - Bead voting activity to identify local priorities for improvements

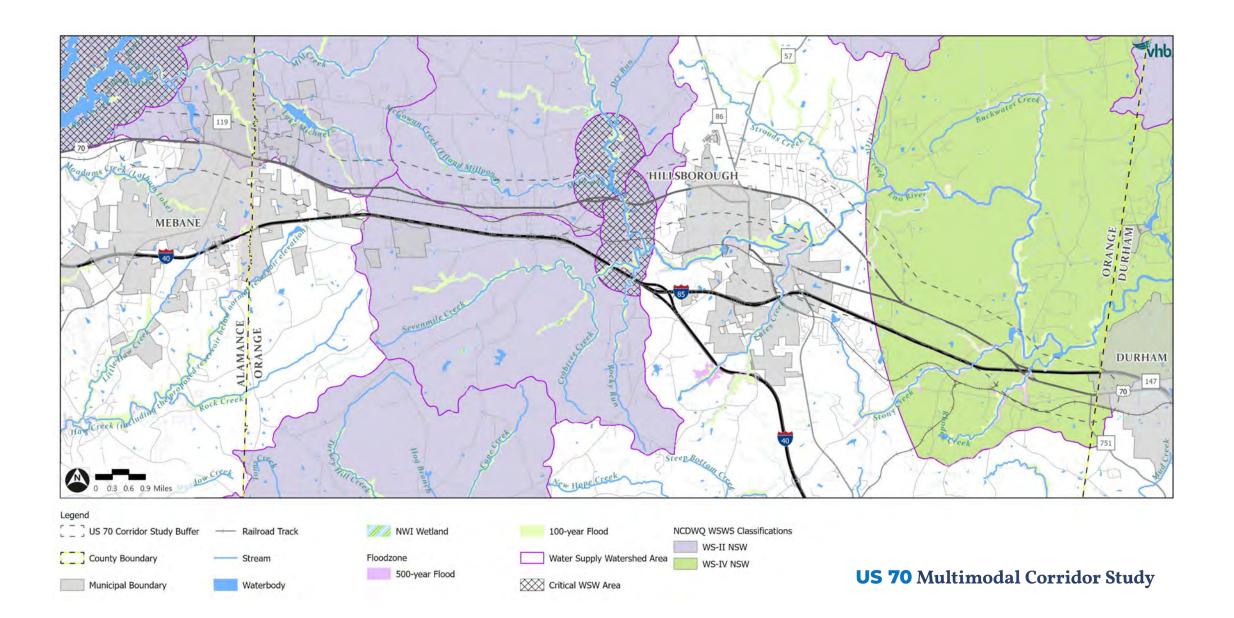




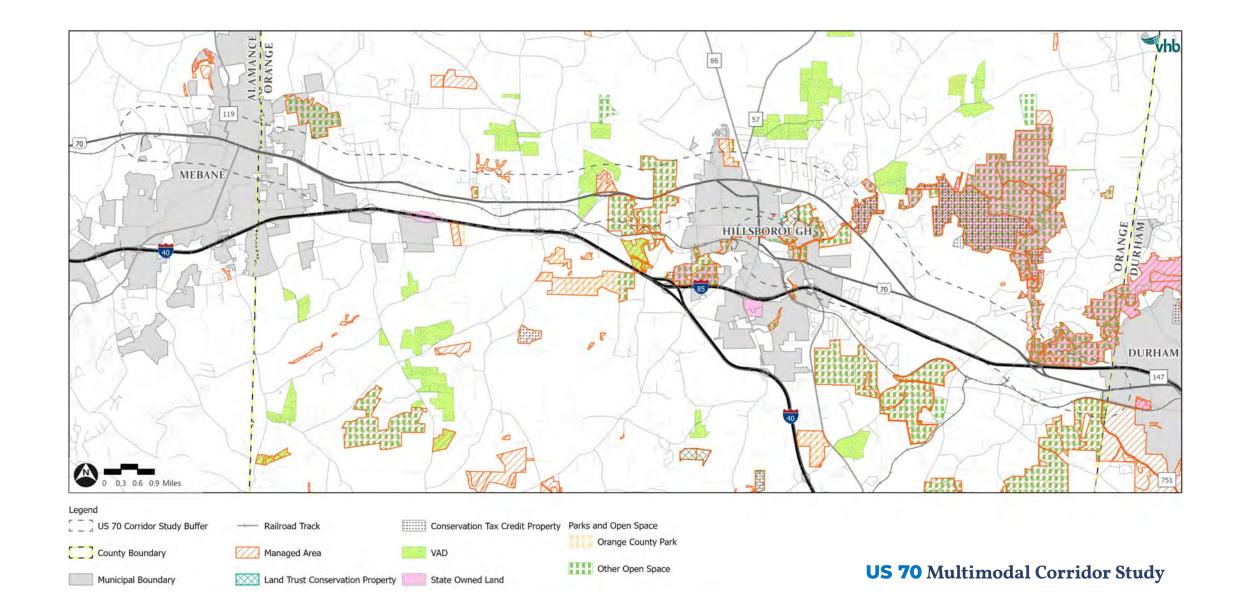
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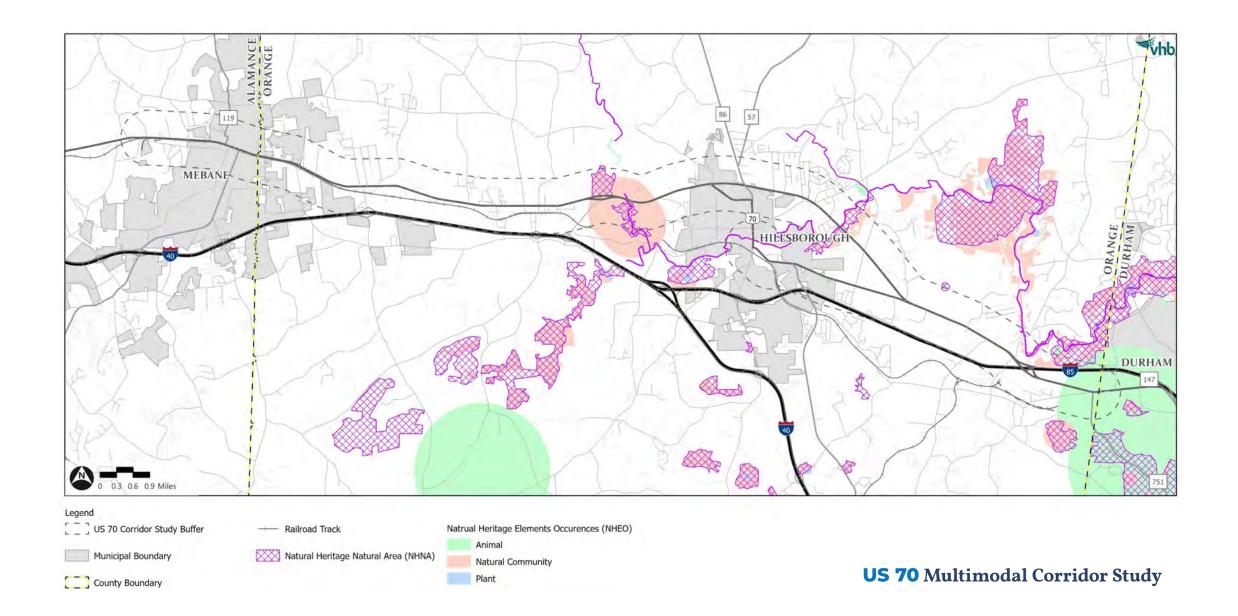
Water Quality, Sources, & Watersheds



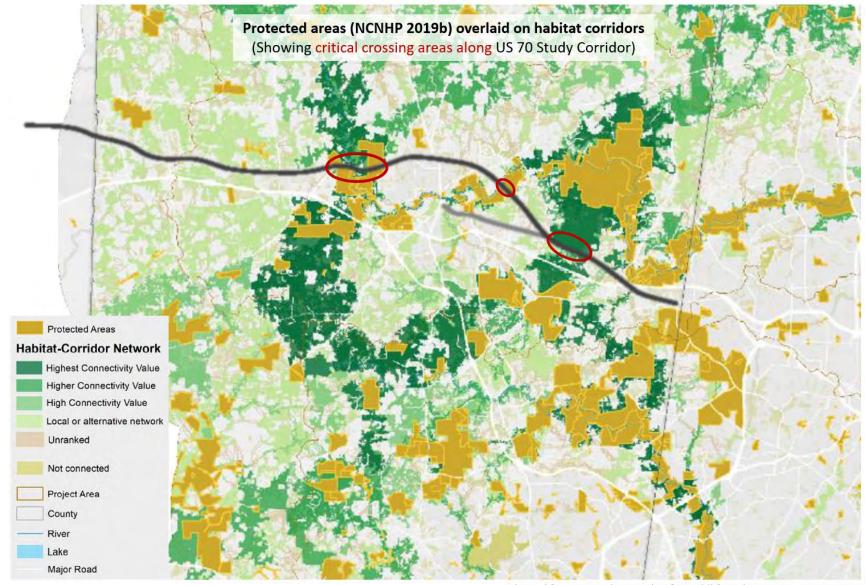
Natural Features



Wildlife Resources



Major Wildlife Corridors & Critical US 70 Crossing Areas

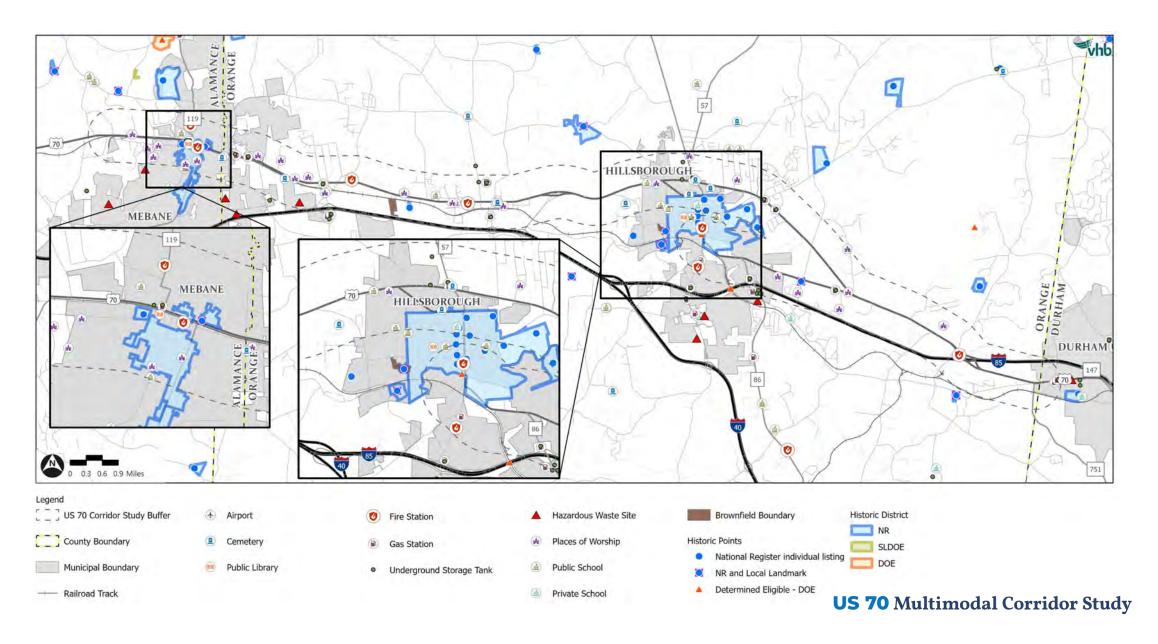




US 70 Multimodal Corridor Study

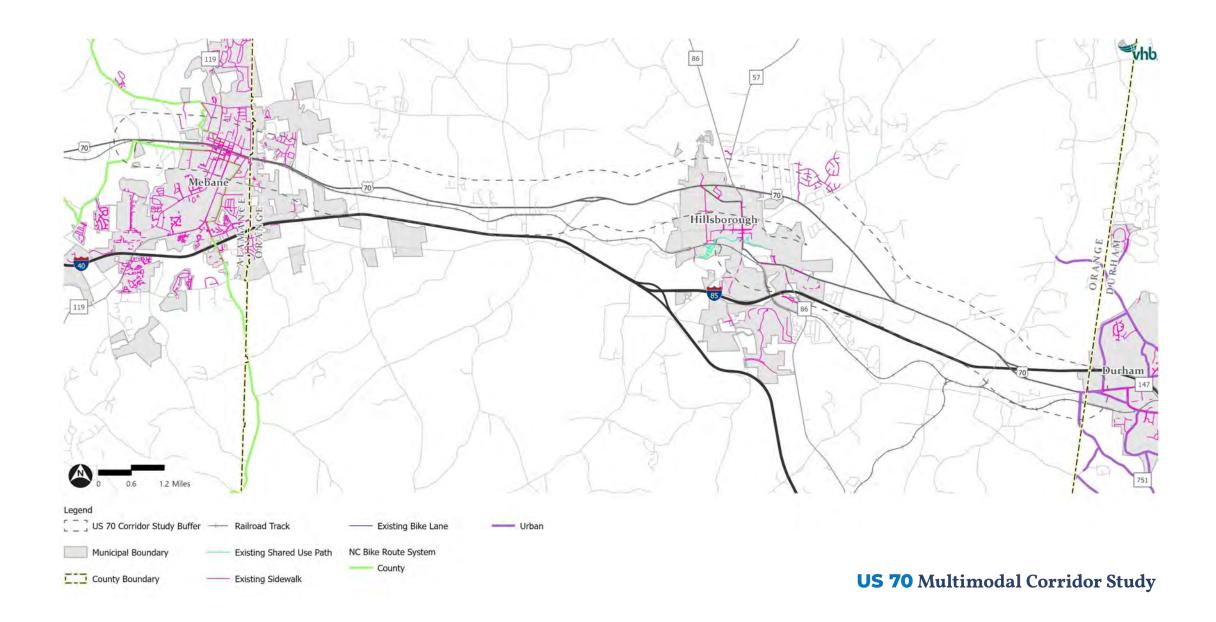
Adapted from A Landscape Plan for Wildlife Habitat Connectivity, 2019

Places of Interest

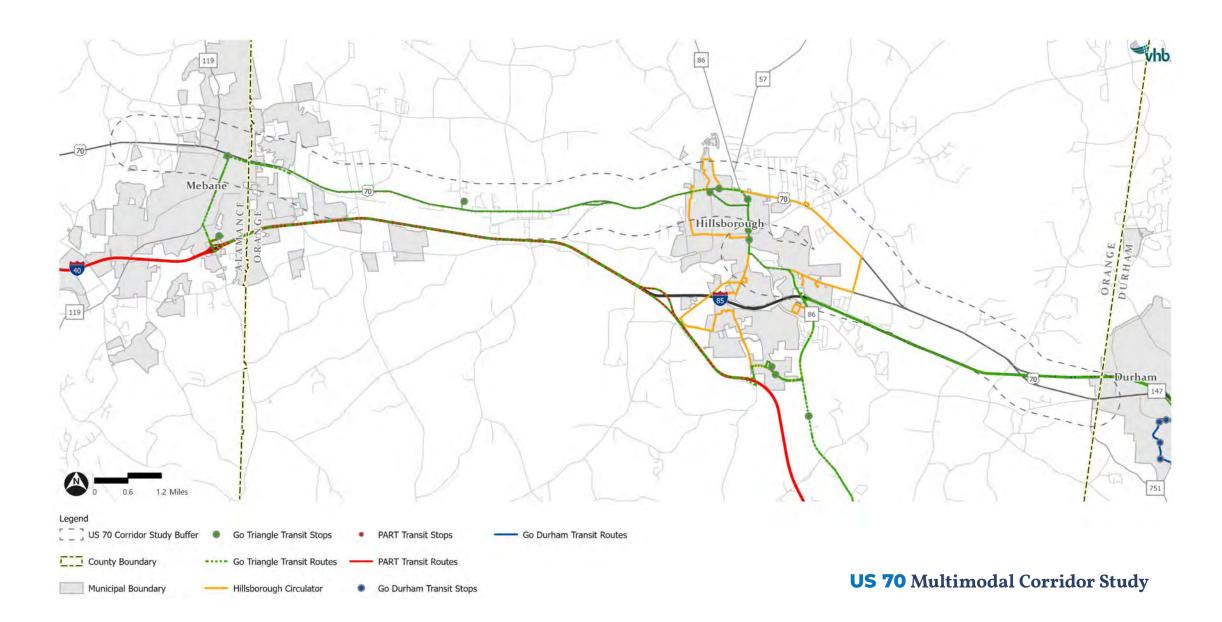




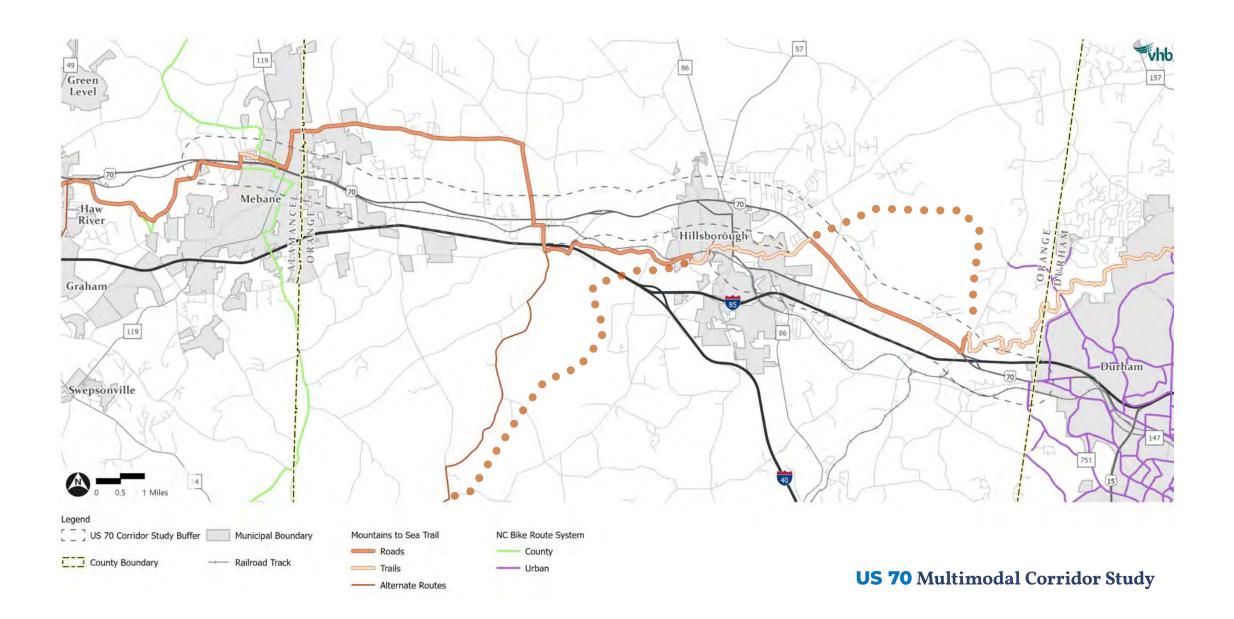
Existing Pedestrian & Bicycle Networks



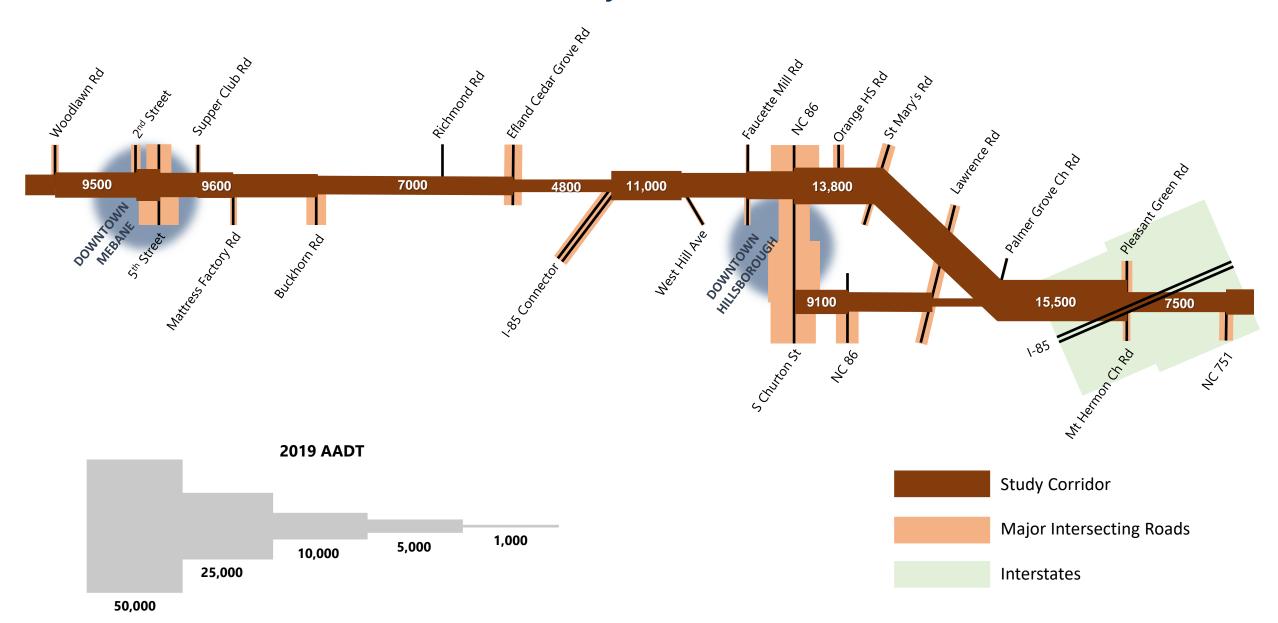
Existing Transit Routes



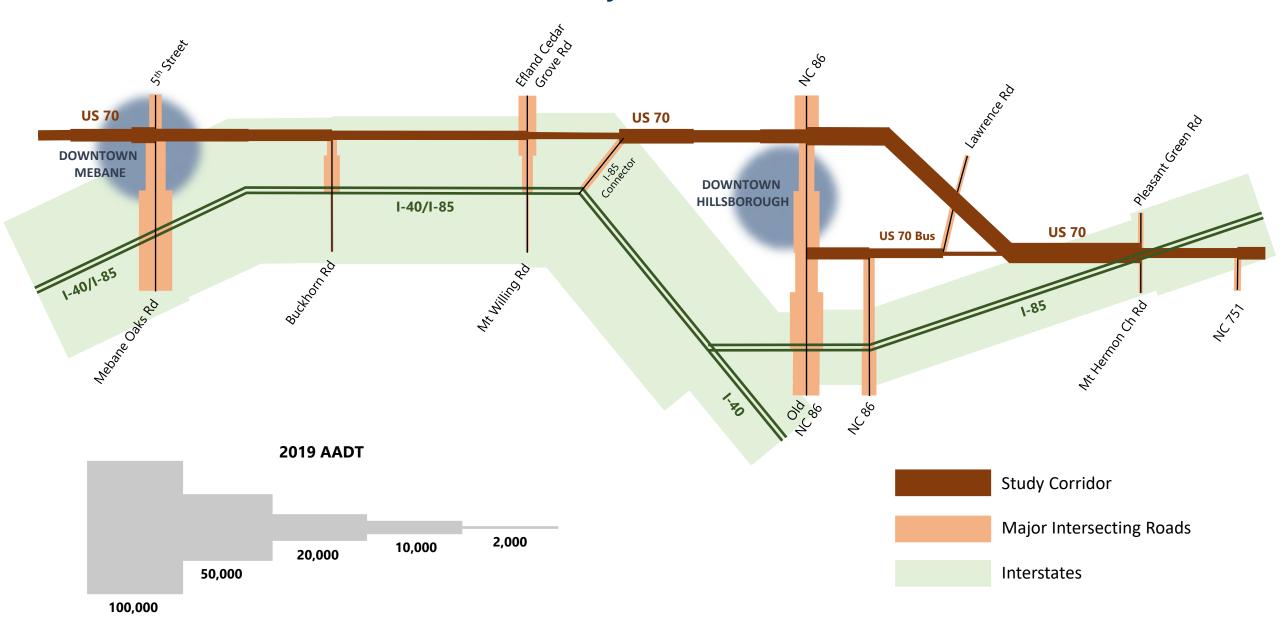
Regional Hiking & Biking Routes



Relative 2019 Traffic Volumes in Study Area

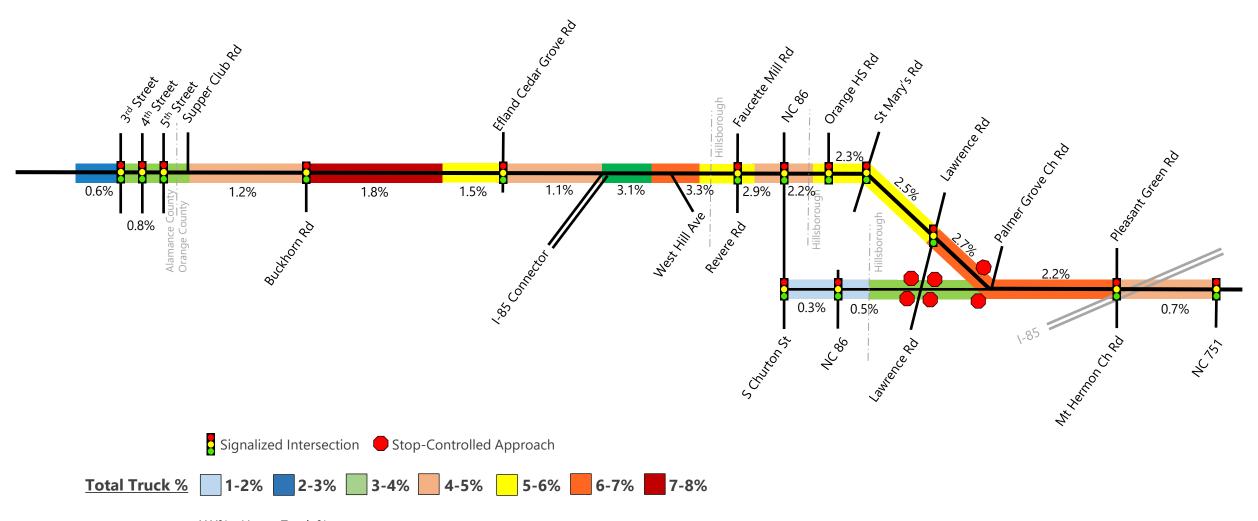


Relative 2019 Traffic Volumes in Study Area



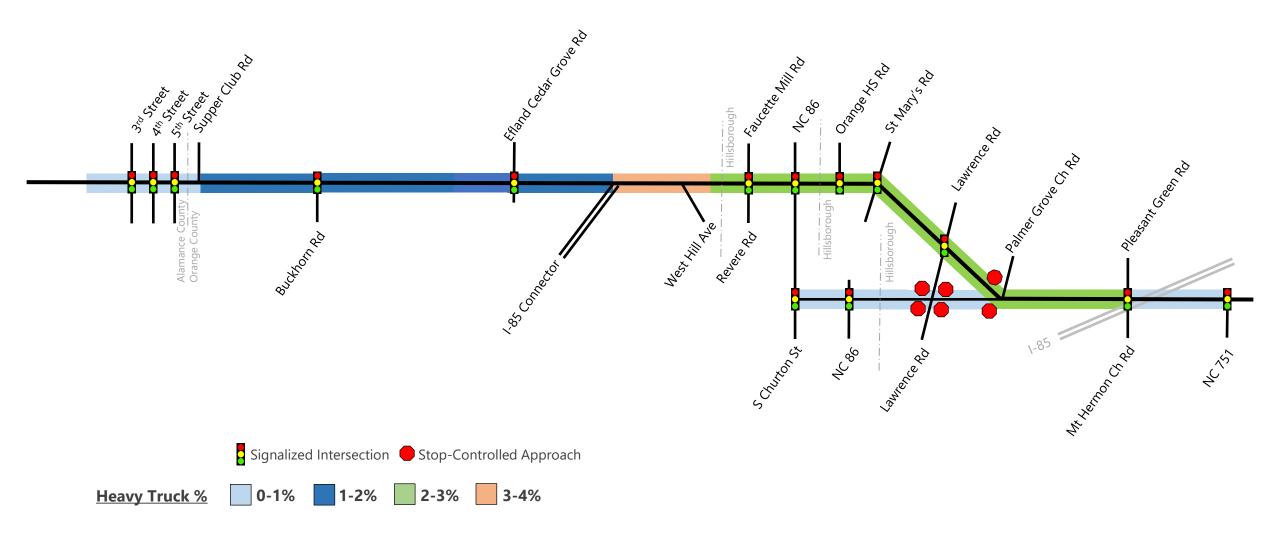
Total Truck Percentages

Estimated from 2019 Location-Based Services

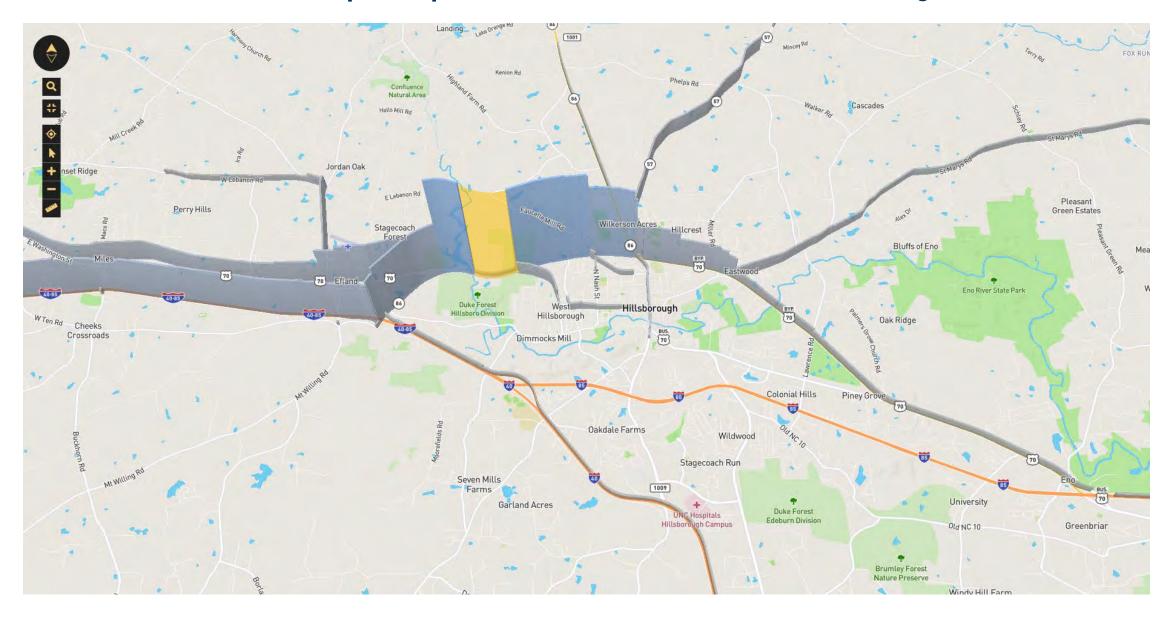


Heavy Truck Percentages

Estimated from 2019 Location-Based Services



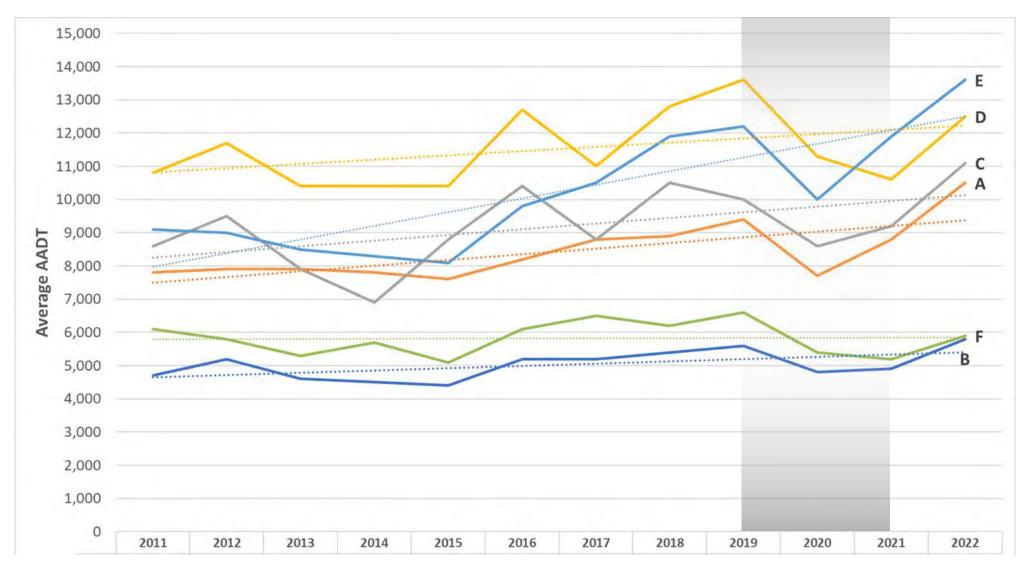
Distribution of US 70 trips for point west of West Hill St (2019 StreetLight LBS Data)



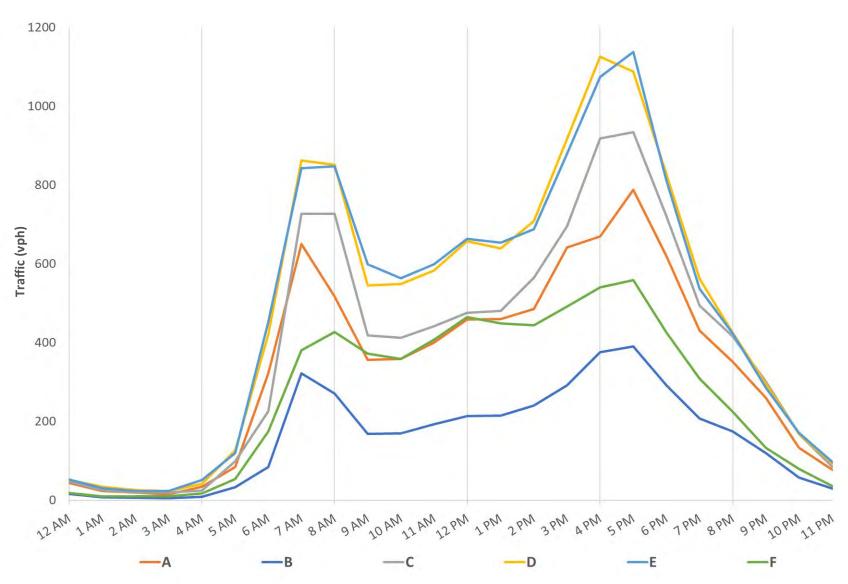
Distribution of US 70 trips for point west of Pleasant Green Rd (2019 StreetLight LBS Data)



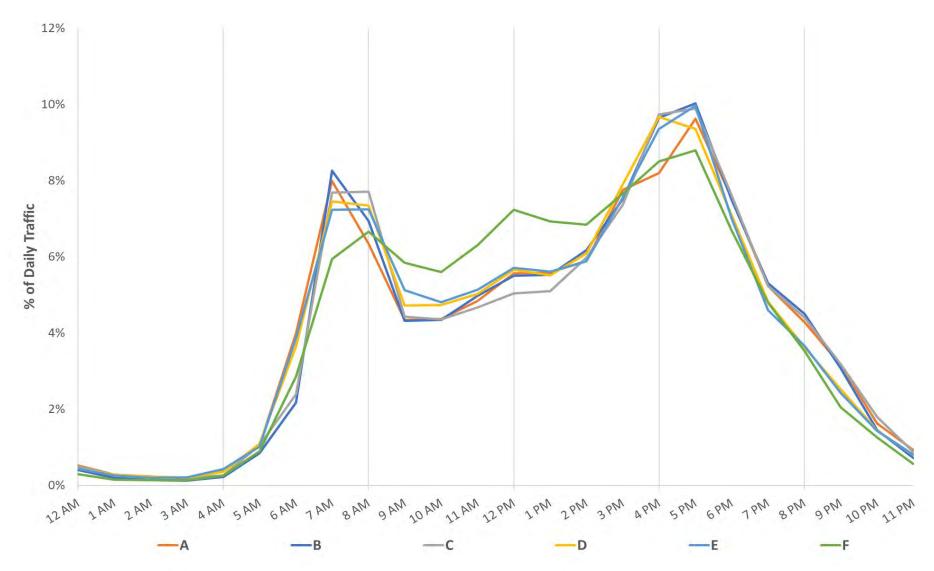
Historic Traffic Volume Trends by Study Segment



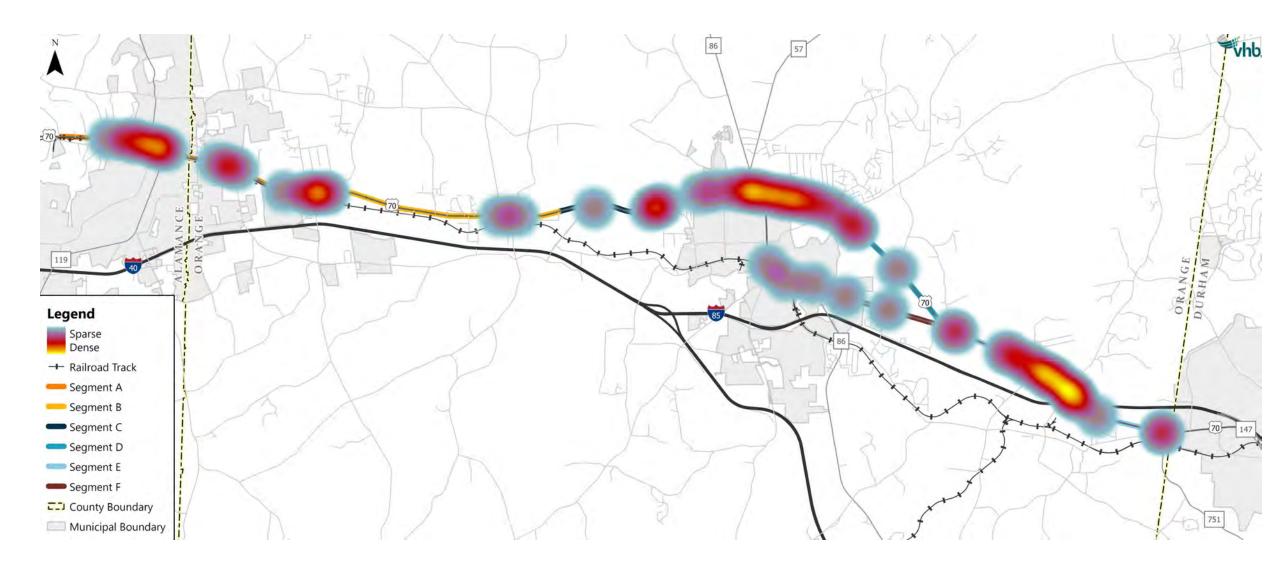
Hourly Traffic Volume by Time-of-Day (by Segment)



% of Daily Traffic by Time-of-Day (by Segment)

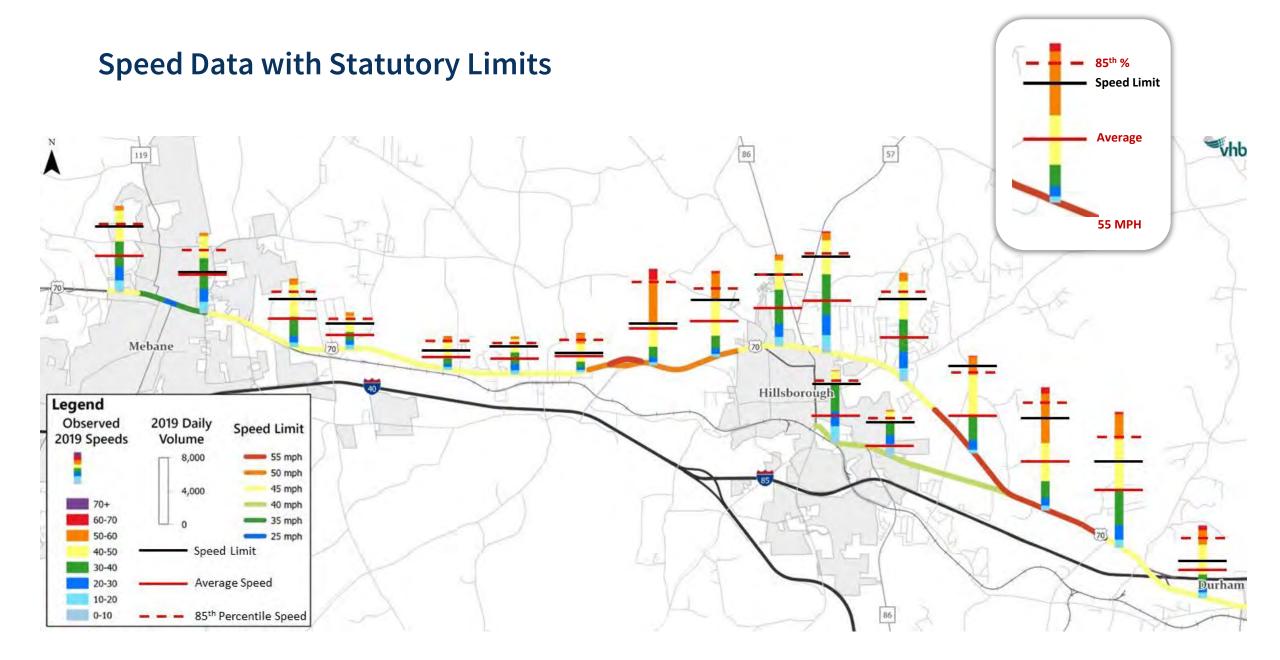


Crash Density



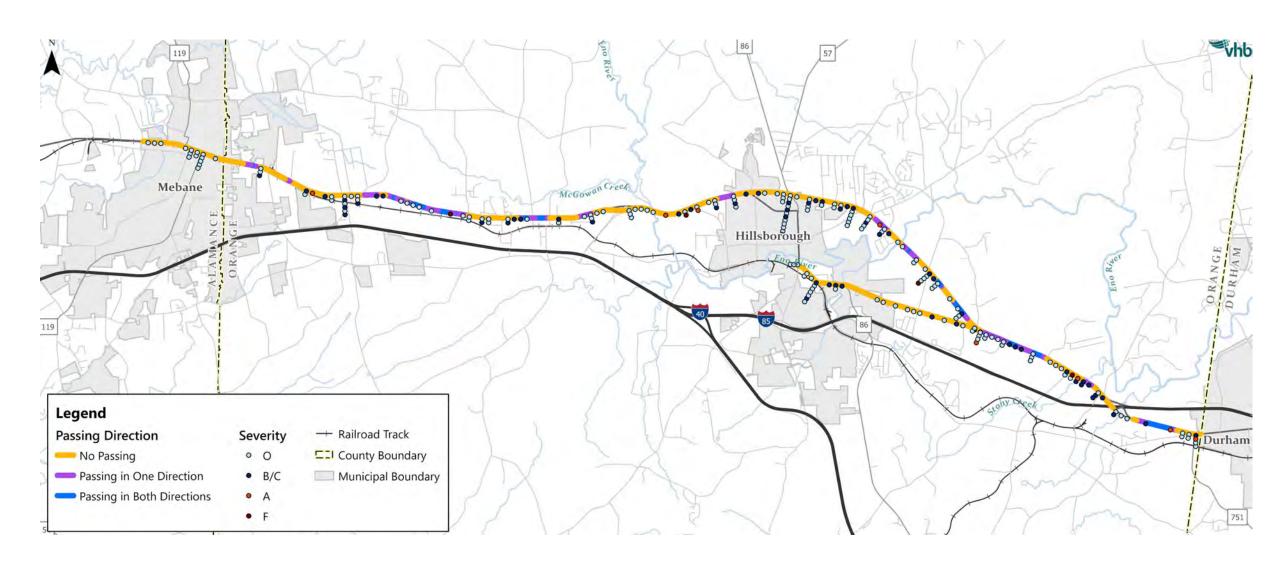
Detailed Crash Totals by Type & Location



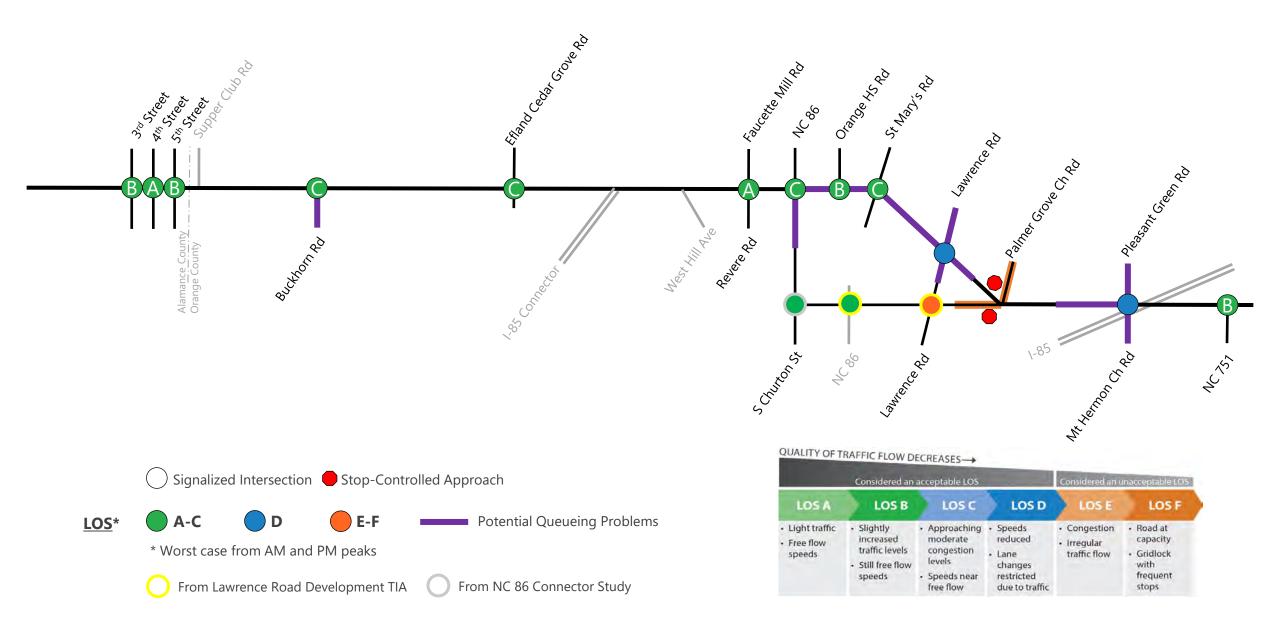


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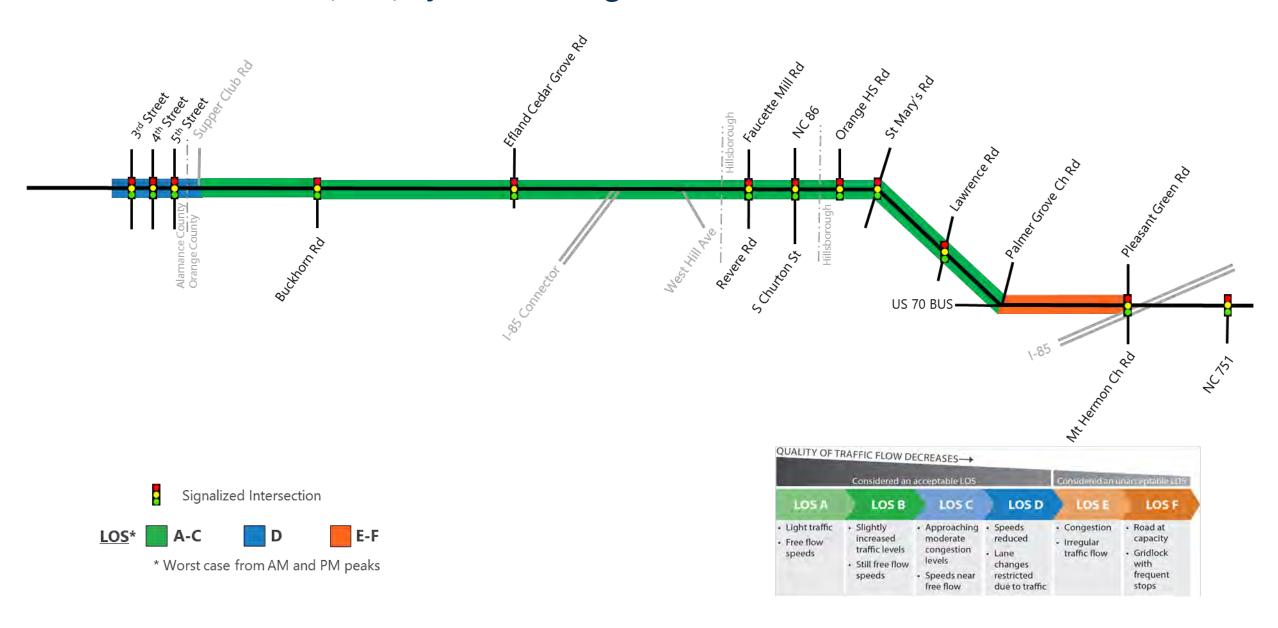
Run-Off Road Crashes with Severities & Passing Zones



Intersection Level-of-Service (LOS)

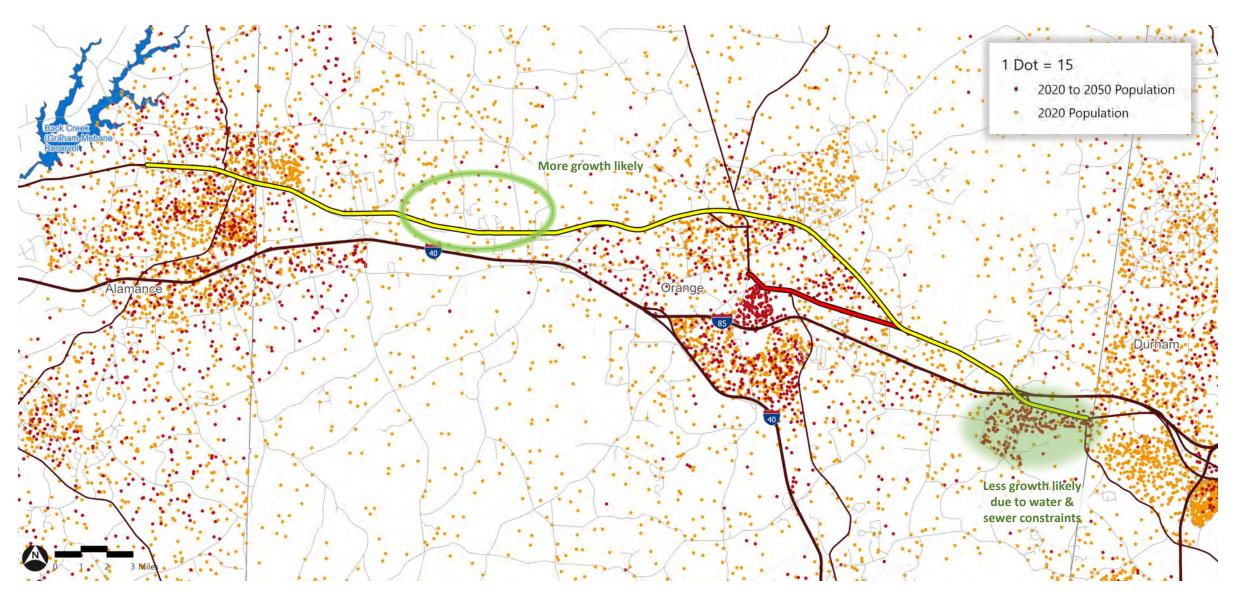


Level-of-Service (LOS) by Corridor Segment



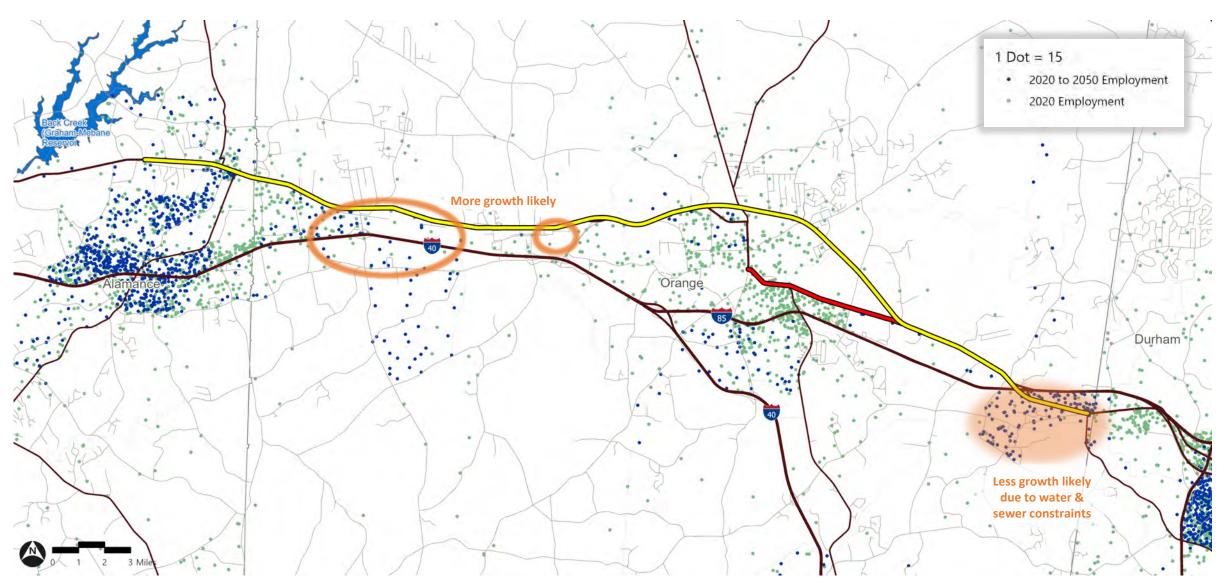


Population Growth, 2020 to 2050

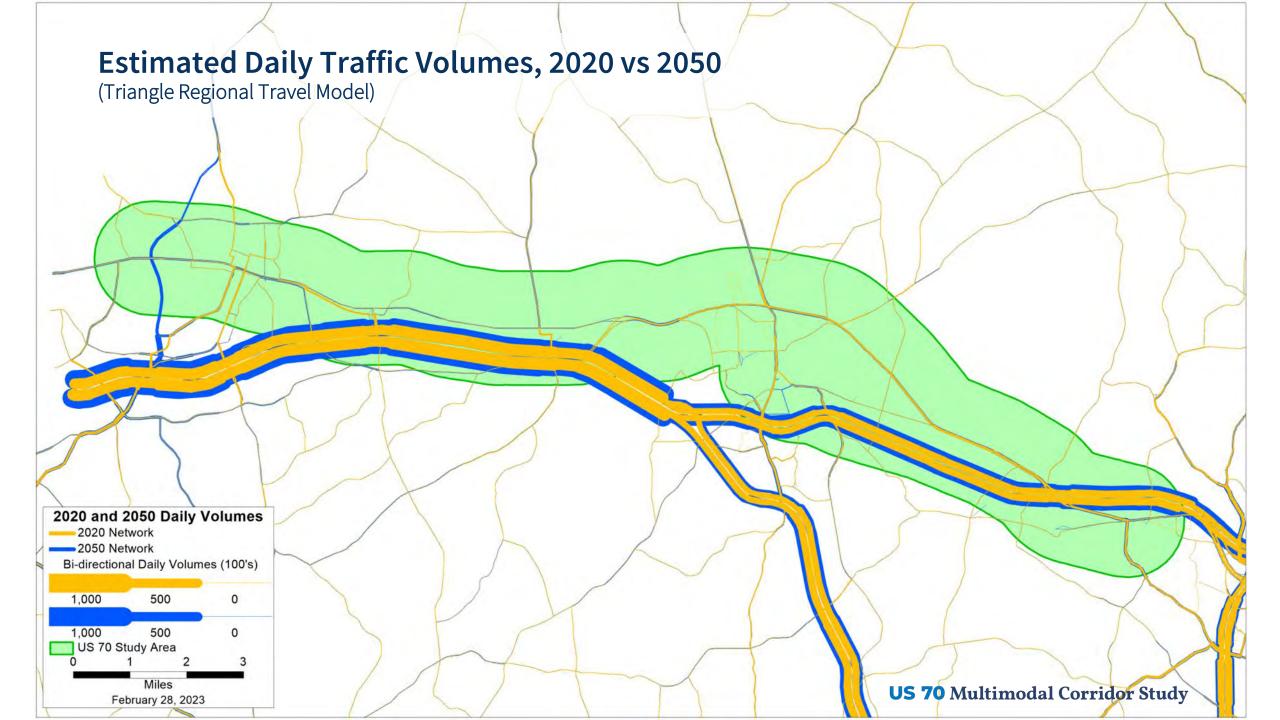


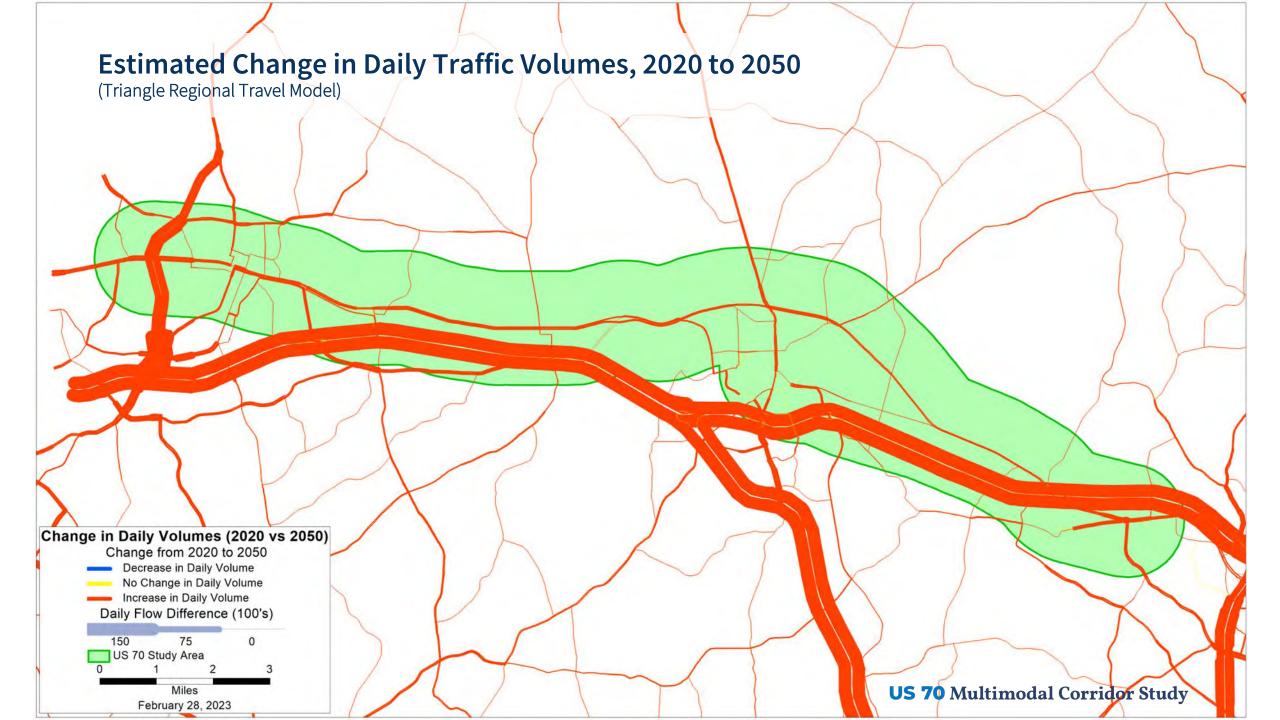
US 70 Multimodal Corridor Study

Employment Growth, 2020 to 2050



US 70 Multimodal Corridor Study







Findings to Date

- ✓ Traffic has returned to pre-COVID levels
 - Higher speeds
 - More trucks
- ✓ High crash rates & speeds in some locations
- ✓ Need pedestrian & bicycle improvements
 - Safety Health Economy Transit
- ✓ Anticipate moderate, localized traffic growth
- ✓ Rail ROW constrains parts of western corridor
- ✓ I-85 improvements critical to US 70 traffic
- ✓ Full access needed at I-85 Connector
- ✓ NC 86 & NC 57 access via US 70 is important





Develop & Test Solutions

- ✓ Safety
- ✓ Walk & bike connections
 - Crossing/along US 70
- ✓ Intersection operations
 - RR interactions
- ✓ Transit service
- ✓ Roadway cross-sections
- Environmental protection
- ✓ Supportive land uses & policies
- ✓ Project priorities & phasing





Public Participation – Round 2

