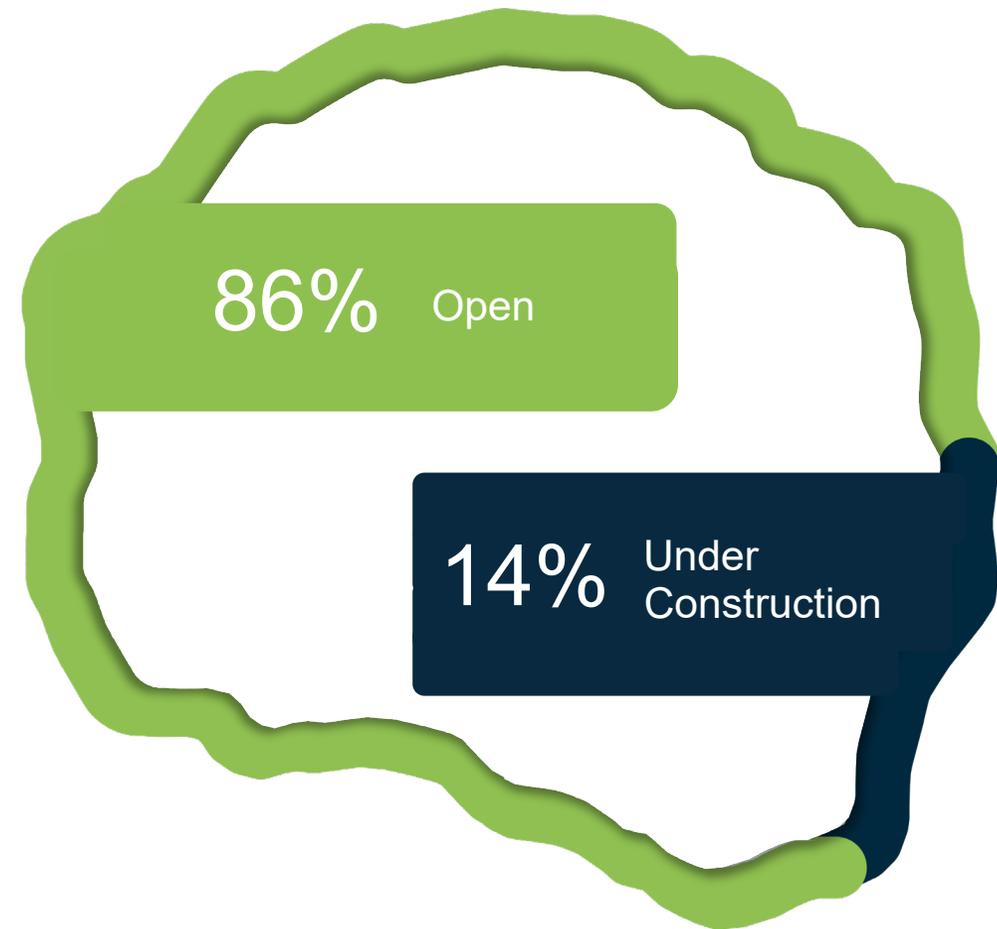


# Complete 540 Phase 2

Alan Shapiro, P.E.

# Completing the Loop

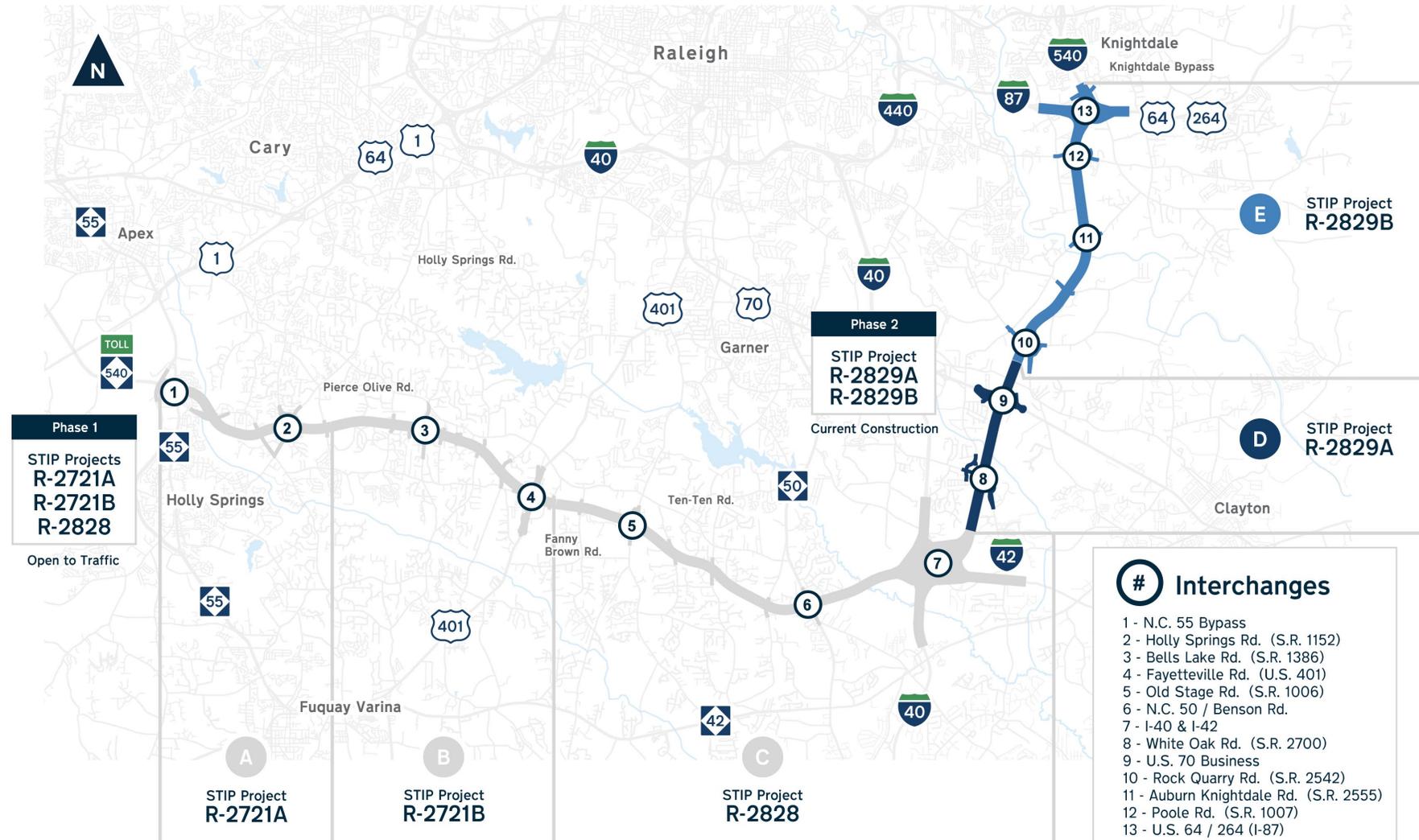
-  Open to traffic (66 miles)  
I-540 & Triangle Expressway
-  Missing link (10 miles)  
Eastern Wake Expressway



# Complete 540 Phase 2

**D** R-2829A  
4 miles  
2 full interchanges + 1 partial

**E** R-2829B  
6 miles  
3 full interchanges + 1 partial



# R-2829A



D

**\$287.3M**

Cost of Contract



# R-2829B



E

**\$449.9M**

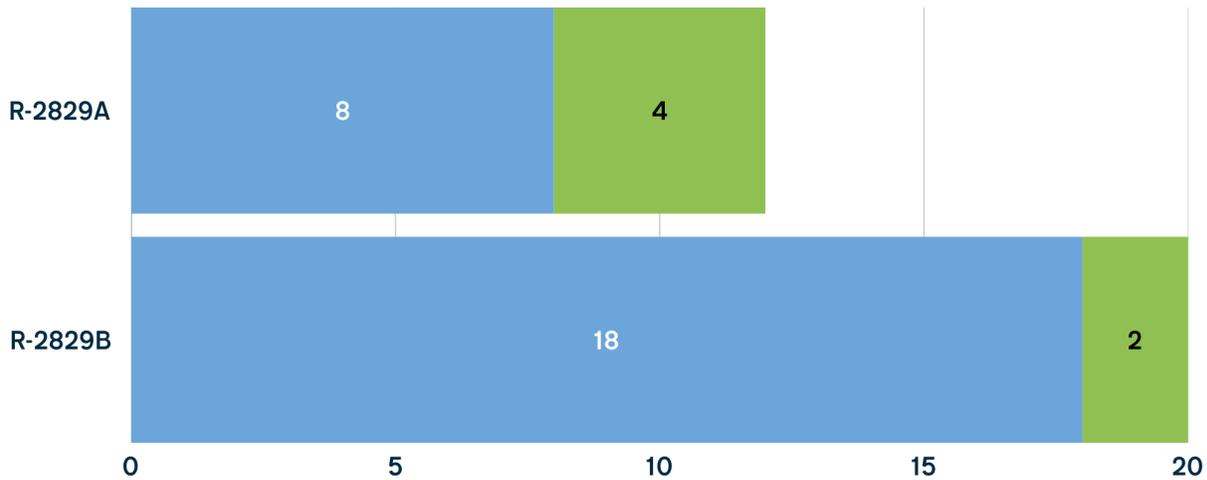
Cost of Contract



# Bridge and Culvert Construction

## Bridge Construction

● Not Started ● Under Construction ● Complete



## Culvert Construction

● Not Started ● Under Construction ● Complete



# Anticipated Project Schedule



Completion of  
Permitting

Complete



Completion of  
Final Designs



Right of Way  
Activities

Ongoing Tasks



Beginning of Major  
Construction Activities

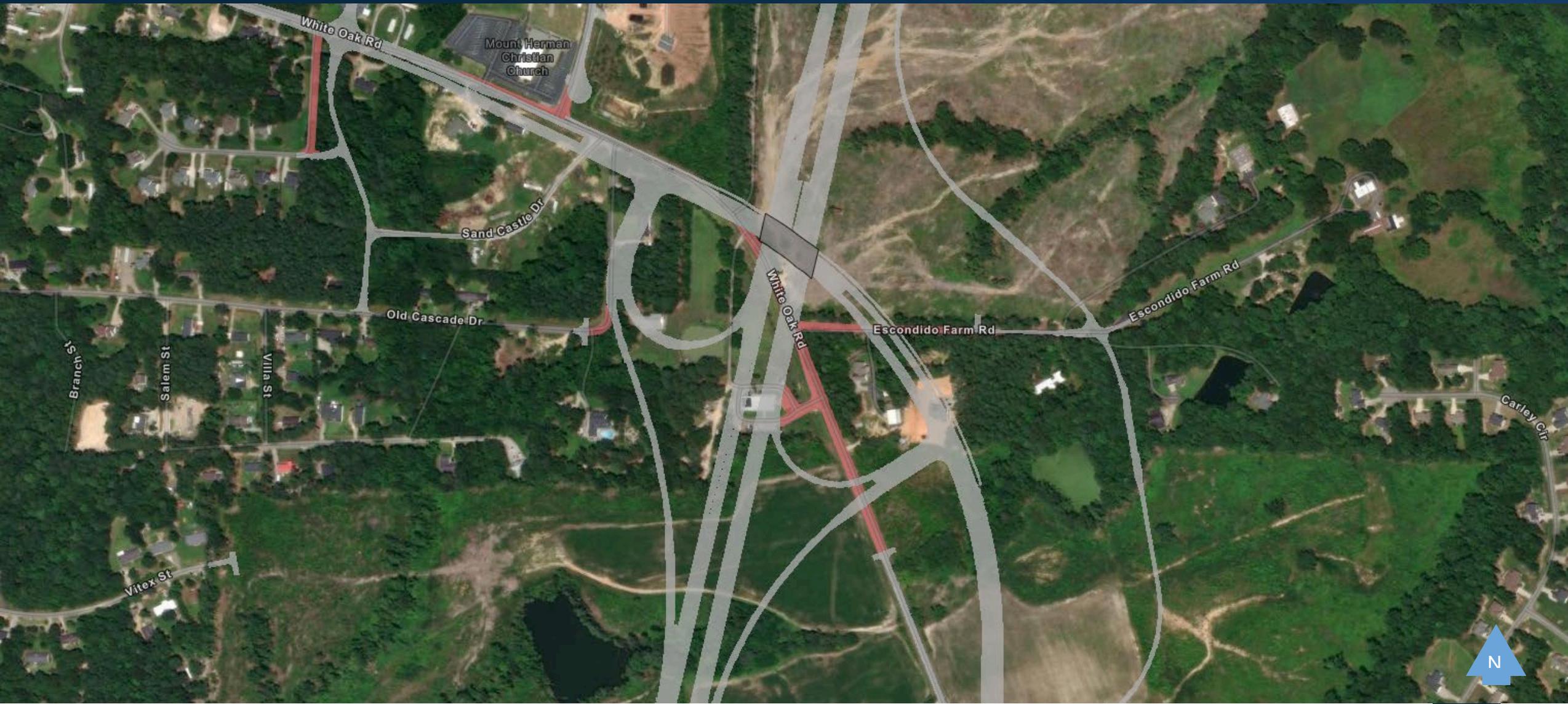


Project Completion  
2028

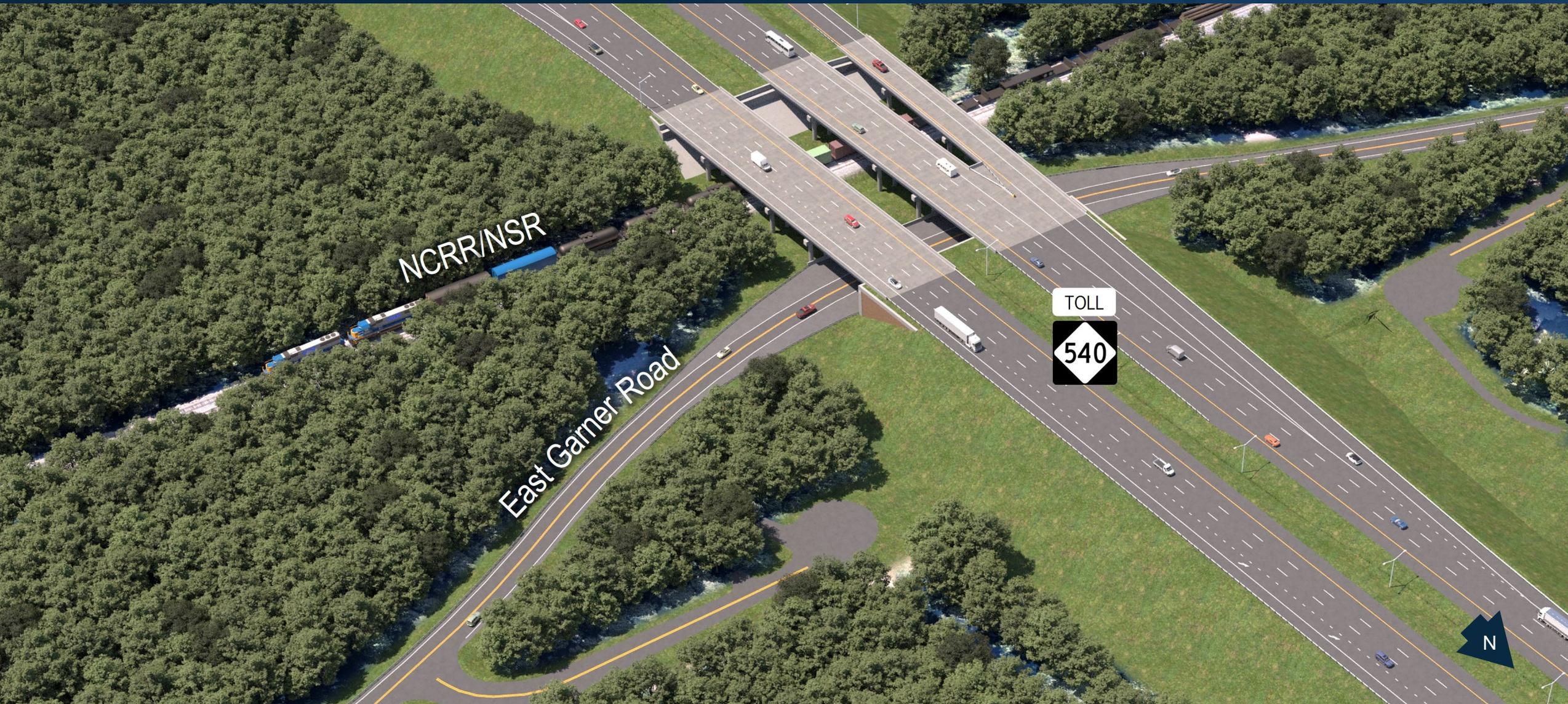
Upcoming  
Tasks

# R-2829A Design Concepts

# White Oak Road Interchange Design



# East Garner Road Design



# U.S. 70 Interchange Design

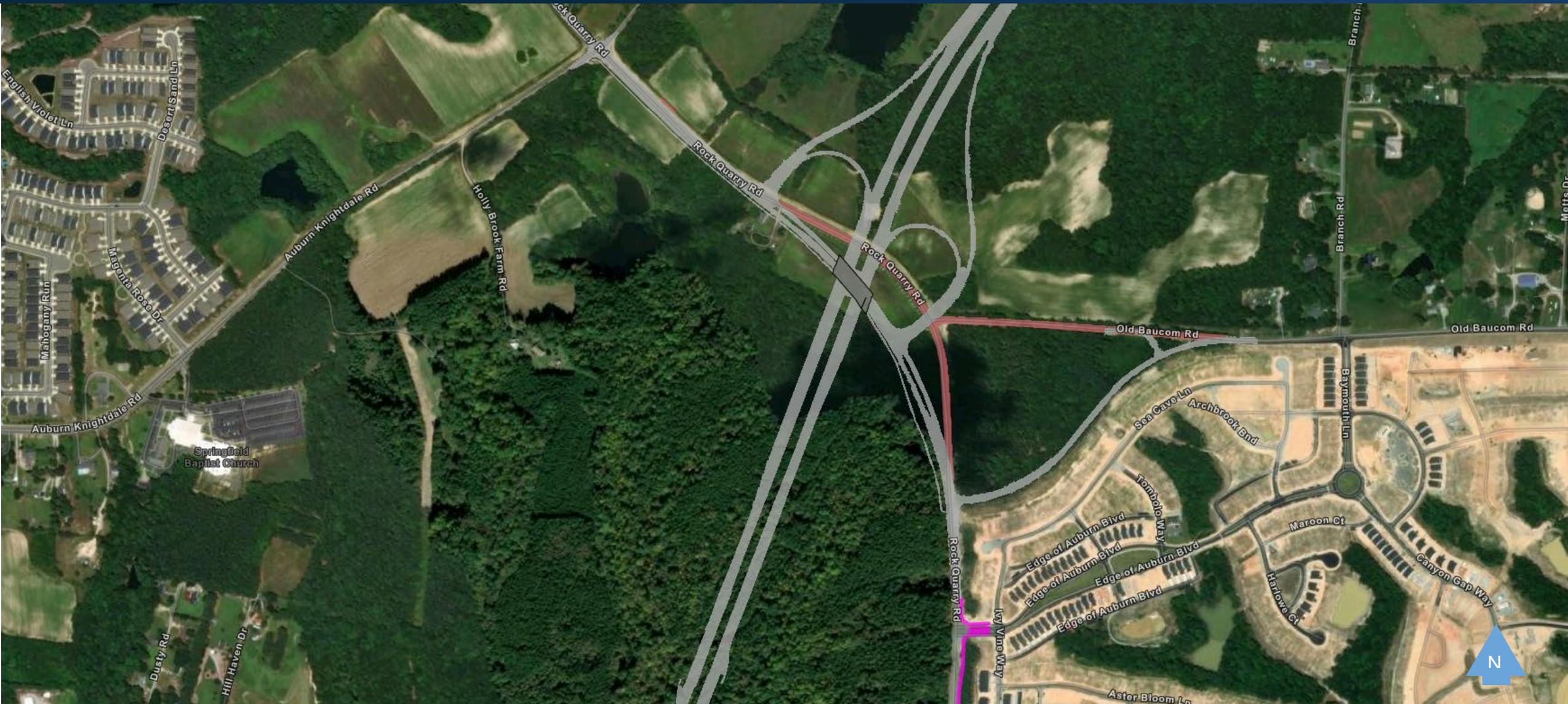


# U.S. 70 Interchange Design



# R-2829B Design Concepts

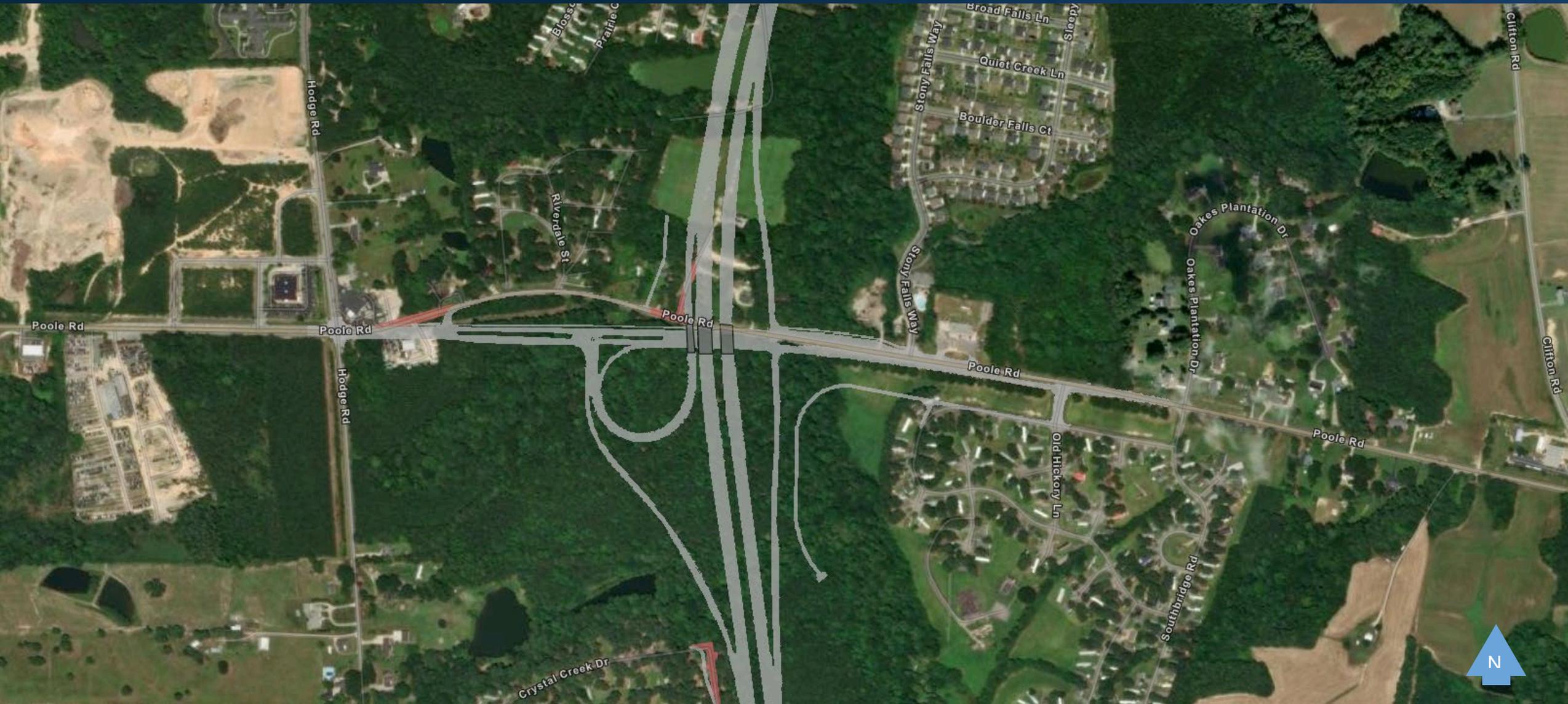
# Rock Quarry Road Interchange Design



# Auburn Knightdale Road Interchange Design



# Poole Road Interchange Design



# I-87 Interchange Design



# Project Highlights

Completed  
Turbine  
Interchange  
I-40 / I-42



Completed  
Turbine  
Interchange  
I-40 / I-42

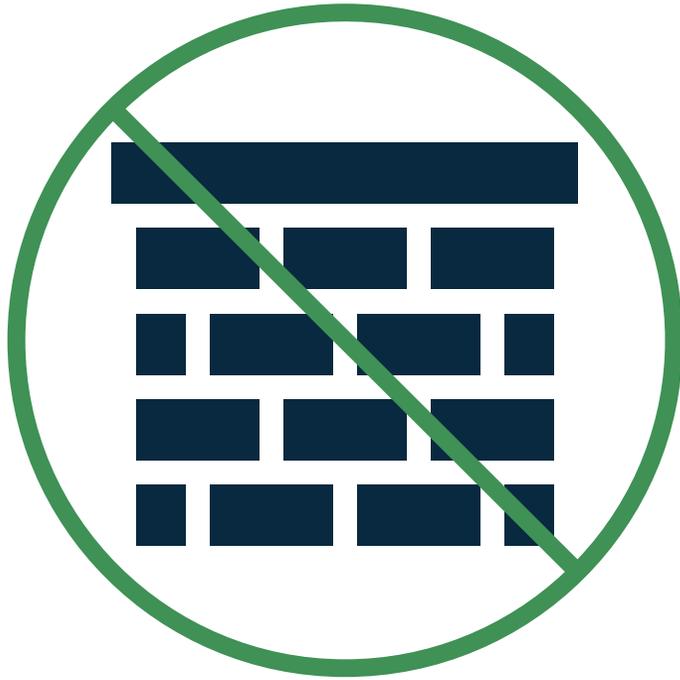


# Typical Toll Vault



# Toll Technology Improvements

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Eliminating Toll Vaults



Cost Savings

# Toll Collection Loop Advancements

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Loops are damaged frequently



Eliminating loops allows less impact to customers for maintenance activities

# DBE Participation

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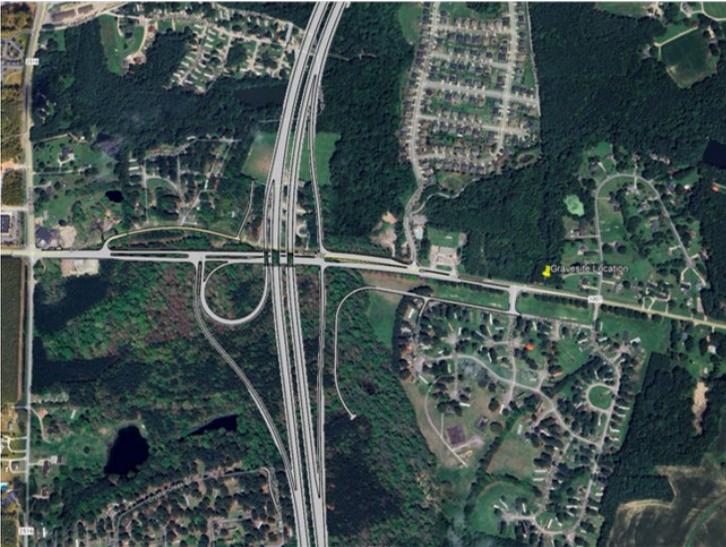
Over \$30 million for committed  
DBE participation

# Gravesites

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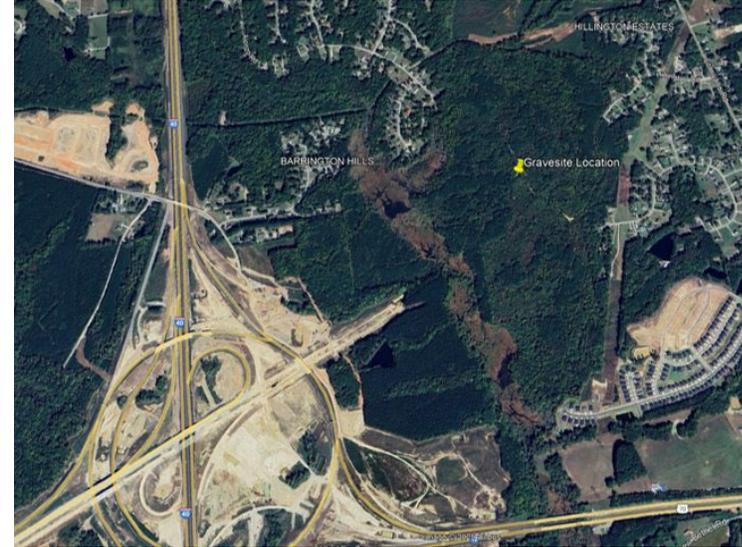
## Avoidance

Poole Road



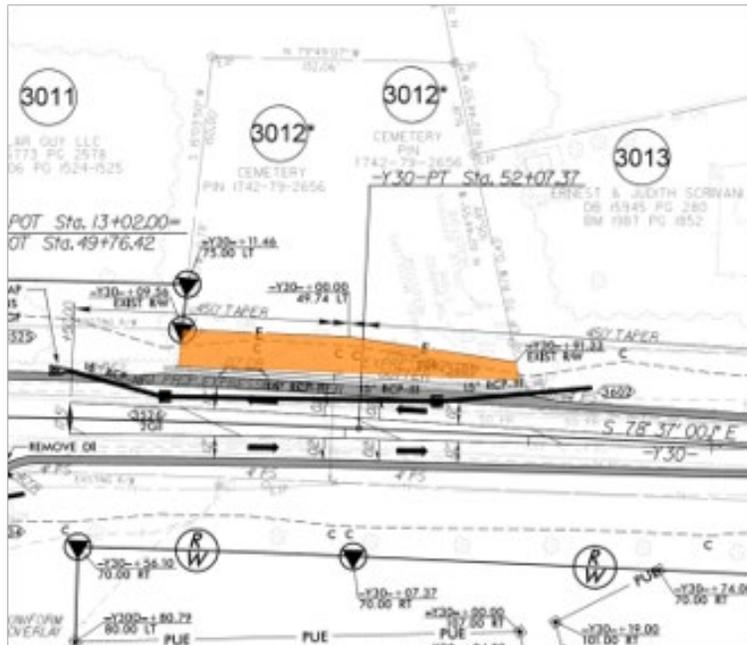
## Relocation

Bushy Branch

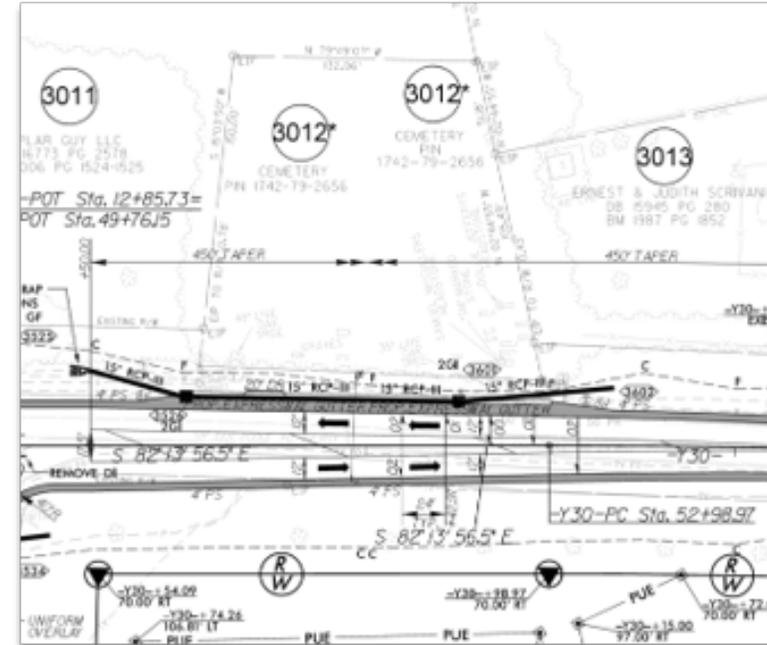


# Gravesite Avoidance

June 2024 Design



Current Design



# Gravesite Relocation



Date Discovered

October 1, 2024



Contract Awarded

January 6, 2025



Work Ended

January 16, 2025



RFP/Bid Advertised\*

November 25, 2024

Work Began

January 13, 2025



# Gravesite Relocation

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# Neuse River Crossing

# Neuse River Construction Activities

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Building dual bridges for  
Toll N.C. 540 to cross over  
the Neuse River Greenway  
Trail & Neuse River



Minimal relocation of  
the Neuse River  
Greenway Trail



Trail access will  
remain open from  
dawn to dusk daily



River & trail users  
will be informed of  
construction activities

# Neuse River Safety Plan

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Compliance



Site Specific Safety Plan



Annual Review



Monthly Inspection



Monitors/Flaggers



Overhead Operations



Storm Preparedness

# Neuse River Safety Precautions

**NOTICE**

NCTA IS CONSTRUCTING NC 540 BRIDGES OVER THE NEUSE RIVER JUST SOUTH OF AUBURN KNIGHTDALE RD

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A SAFE PASSAGE LANE IS BEING MAINTAINED THROUGH THE CONSTRUCTION ZONE

THE LAST PULL-OUT IS LOCATED AT POOLE RD BOAT ACCESS

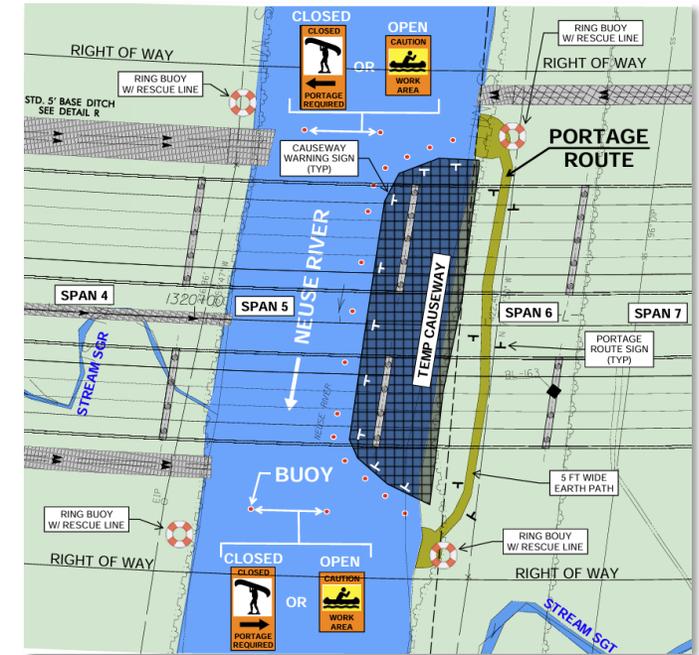
PLEASE FOLLOW ALL SAFETY GUIDANCE

MORE INFORMATION CAN BE FOUND AT  
[WWW.NCDOT.GOV/COMPLETE540](http://WWW.NCDOT.GOV/COMPLETE540)  
1-800-554-7849  
[COMPLETE540@NCDOT.GOV](mailto:COMPLETE540@NCDOT.GOV)

Advanced Warning Signage

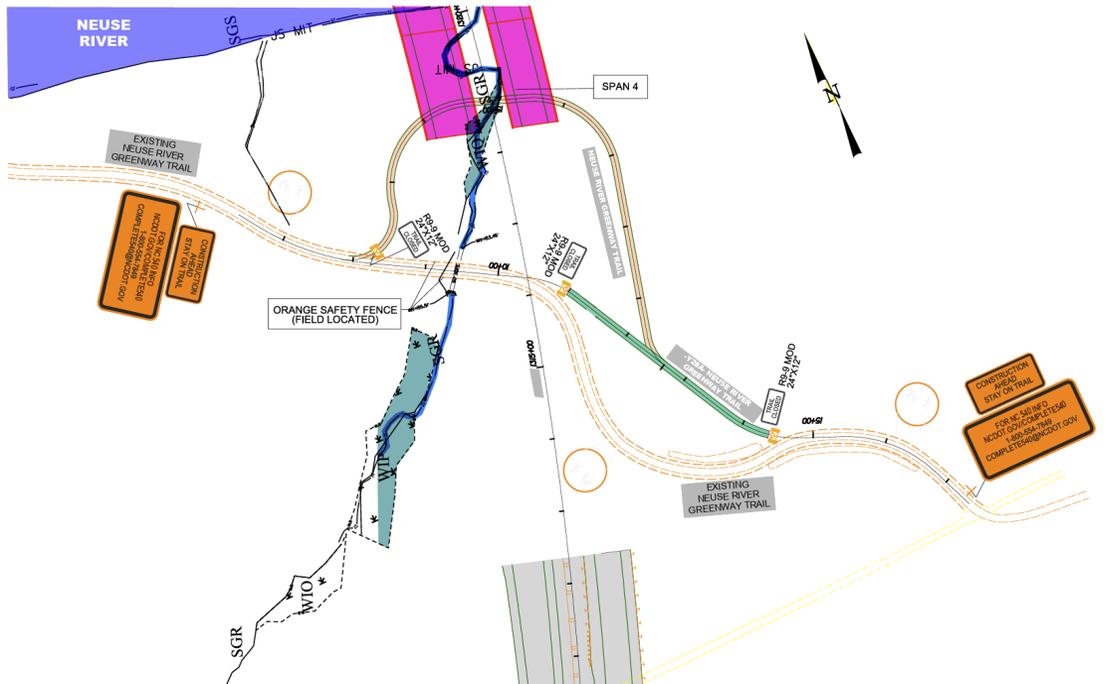


Ring Buoys



River Safety Plan

# Neuse River Greenway Trail Precautions



Trail Safety Plan



Orange Safety Fencing

# Bike, Pedestrian and Multi-Use Accommodations

# Bike/Pedestrian/Multi Use Accommodations – Phase 2



# Bike/Pedestrian/Multi Use Accommodations – Phase 2



## Bike/Multi -Use Accommodations



- Shared Bike Lanes
  - White Oak Road
  - Rock Quarry Road
  - Auburn Knightdale Road
  - Poole Road
- Multi -Use Paths
  - White Oak Road
  - White Oak Creek Greenway
  - Rock Quarry Road
  - Neuse River Greenway Trail
  - Poole Road
- Ready for Future Improvements
  - U.S. 70 Business
  - East Garner Road
  - Battle Bridge Road
  - Additional Neuse River Trail
  - Auburn Knightdale Road

# Pedestrian Accommodations

## Sidewalks



- Part of Phase 2
  - White Oak Road
  - Poole Road
- Ready for Future Improvements
  - U.S. 70 Business
  - East Garner Road
  - Rock Quarry Road
  - Battle Bridge Road
  - Auburn Knightdale Road

# Phase 2 Outreach Efforts

## Continuation



Mirroring successful strategies from Phase 1

## Neighborhood Meetings



Kick off at East Garner Road

## Communications Plan



Comprehensive communications and public engagement plan

## Early Communications



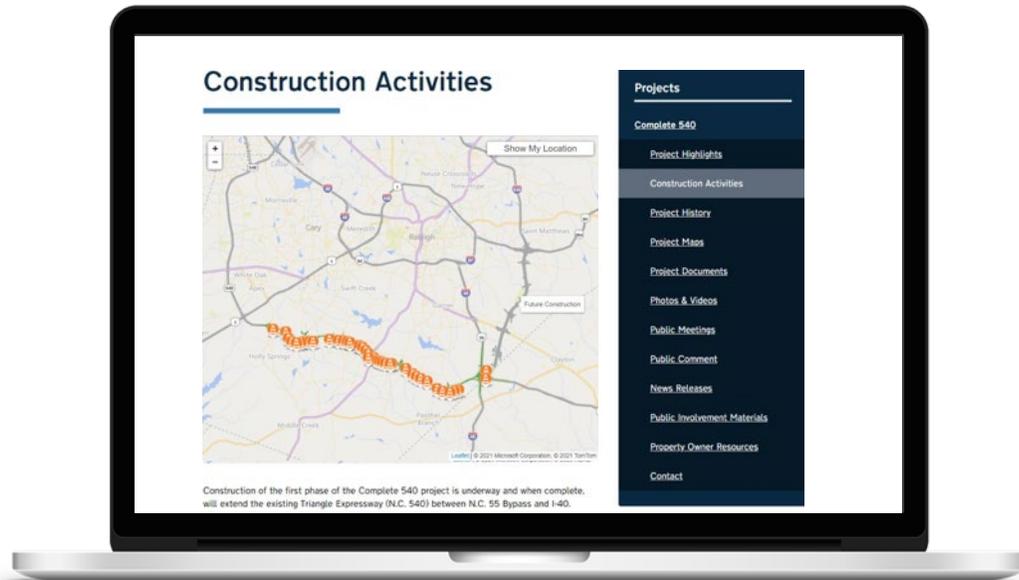
Initiated communications in early 2025  
i.e., neighborhood meeting and letters to residents

## Proactive Outreach

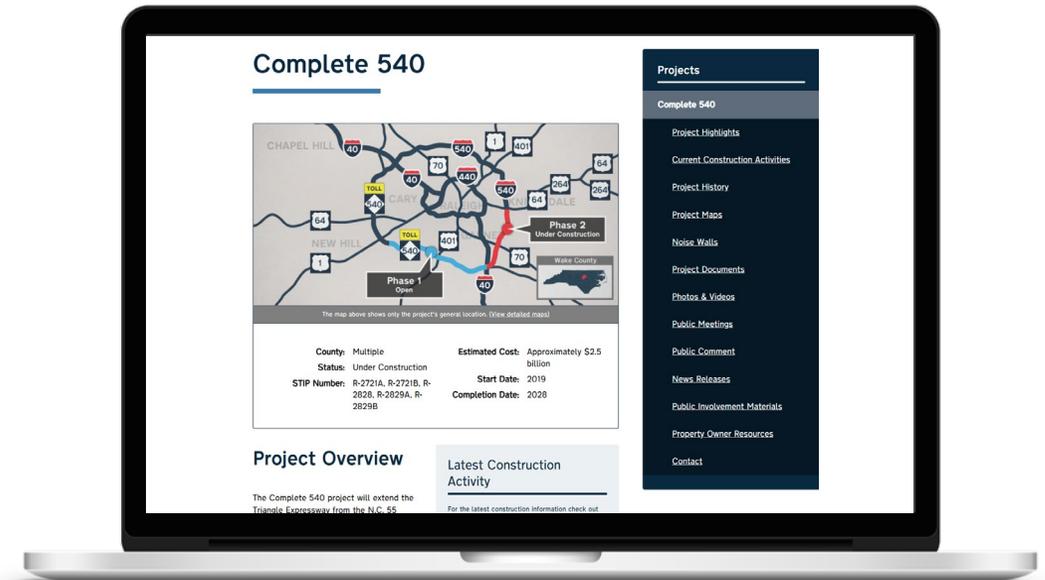


Initiating contact with organizations to present

# Resources at [ncdot.gov/complete540](https://ncdot.gov/complete540)



Interactive Map for Construction Activities



Complete 540 Webpage

If you have any questions, please contact us at [complete540@ncdot.gov](mailto:complete540@ncdot.gov) or 1-800-554-7849

Para servicios de interpretación, llame al 1 -800 -481 -6494.

## Before You Go!

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-  Sign up for an NC Quick Pass account to start saving 50% on tolls in NC
-  Manage your existing NC Quick Pass account
-  Get answers to your questions about tolling



# Contact Us



[ncdot.gov /complete540](https://ncdot.gov/complete540)



[complete540@ncdot.gov](mailto:complete540@ncdot.gov)



1-800 -554 -7849



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llame al 1 -800 -481-6494.



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Questions?



Thank you!