NC Capital Area **Metropolitan Planning Organization**

WELCOME!

Today's Executive Board meeting is being held ***IN-PERSON****.*
The meeting will begin shortly.

This livestream is for viewing/listening only – online attendees will not be able to participate in the meeting.

Call In: 650 479 3208 Meeting Code: 2531 311 2241 Meeting Password: meet

PUBLIC COMMENTS SPEAKER SIGN UP SHEET:
https://docs.google.com/spreadsheets/d/1DtMvg8qI3UHOxjVWb4rh-P_Ec0L0d2eVQU0YorZjqPg/edit?usp=sharing

Download Presentation Slides: https://campo.legistar.com/Calendar.aspx

NC Capital Area **Metropolitan Planning Organization**

Executive Board Meeting

April 19, 2023

4:00 PM

1. Welcome and Introductions

Roll Call of Voting Members & Alternates

Town of Angier
Town of Apex
Town of Archer Lodge
Town of Bunn
Town of Cary
Town of Clayton
City of Creedmoor
Franklin County
Town of Franklinton
Town of Fuquay-Varina
Town of Garner

GoTriangle Bd. Trustees
Granville County
Harnett County
Town of Holly Springs
Johnston County
Town of Knightdale
Town of Morrisville
NCDOT - Div 4
NCDOT - Div 5
NCDOT - Div 6
City of Raleigh

Town of Rolesville
Wake County
Town of Wake Forest
Town of Wendell
Town of Youngsville
Town of Zebulon

<u>Ex Officio Non-Voting Members:</u>
Federal Highway Admin.
NC Turnpike Authority

CAMPO
NC Capital Area Metropolitan Planning Organization

2. Adjustments to the Agenda

CAMPO
NC Capital Area Metropolitan Planning Organization

3. Ethics Statement:

In accordance with the State Government Ethics Act, it is the duty of every Executive Board member to avoid conflicts of interest.

Does any Executive Board member have any known conflict of interest with respect to matters coming before the Executive Board today? If so, please identify the conflict and refrain from any participation in the particular matter involved.

CAMPO
NC Capital Area Metropolitan Planning Organization

4. Public Comments

This is an opportunity for comments by those in attendance. Please limit comments to three (3) minutes for each speaker.

CAMPO
NC Capital Area Metropolitan Planning Organization

5. Consent Agenda

5.1 March 15, 2023 Executive Board Minutes
Approve the March 15, 2023 Meeting Minutes.

5.2 2023 NCDOT Multimodal Planning Grant Application
Adopt resolutions for the Town of Angier and the City of Raleigh.

Requested Action:

Approve all Consent Agenda items.

CAMPO
NC Capital Area Metropolitan Planning Organization

Roll Call Vote for Slate of Action Items

Slate:
5.1-5.2: Consent Agenda

Town of Angier
Town of Apex
Town of Archer Lodge
Town of Bunn
Town of Cary
Town of Clayton
City of Creedmoor
Franklin County
Town of Franklinton
Town of Fuquay-Varina
Town of Garner

GoTriangle Bd. Trustees
Granville County
Harnett County
Town of Holly Springs
Johnston County
Town of Knightdale
Town of Morrisville
NCDOT - Div 4
NCDOT - Div 5
NCDOT - Div 6
City of Raleigh

Town of Rolesville
Wake County
Town of Wake Forest
Town of Wendell
Town of Youngsville
Town of Zebulon

<u>Ex Officio Non-Voting Members:</u>
Federal Highway Admin.
NC Turnpike Authority

CAMPO
NC Capital Area Metropolitan Planning Organization

6. Regular Agenda

6.1 Rail Corridor Identification and Development Program

6.2 Complete 540 - Update

6.3 Southeast Area Study Update

6.4 MTP Roadway Prioritization

6.5 2024-2033 TIP/STIP Update

CAMPO
NC Capital Area Metropolitan Planning Organization

6.1 Rail Corridor Identification & Development Program

CAMPO
NC Capital Area Metropolitan Planning Organization

NORTH CAROLINA
Department of Transportation

NC Corridor ID Program Opportunities

Jason Orthner, P.E., CPM
Rail Division Director

April 19, 2023

Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina

Types of Passenger Rail Service

Intercity Passenger Rail (Typically FRA supported)

- Connecting the centers of cities and towns
- Longer distances between stations
- Longer trip durations
- Baggage and food service typical

Commuter Rail (Typically FTA supported)

- Connecting outlying areas and urban centers
- Peak hour service is historically typical
- Closer station spacing
- Shorter trip durations

Light Rail (Typically FTA supported)

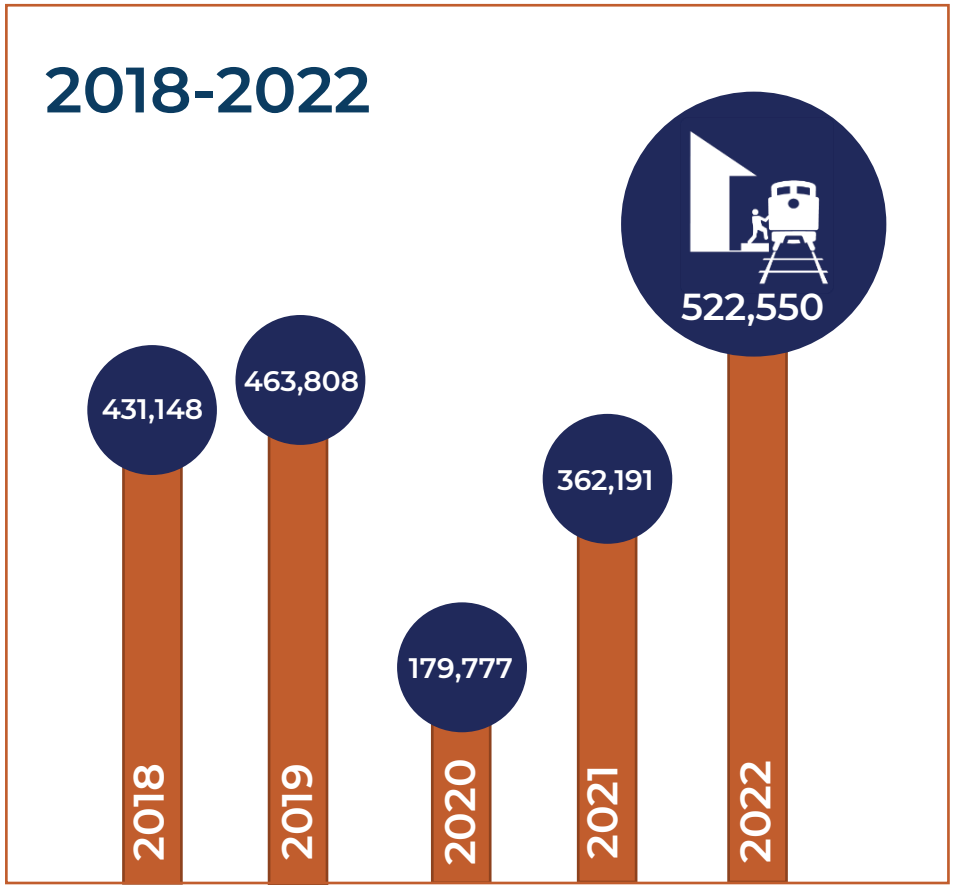
- Urban area
- Separate rail system (not part of national rail network)

ncdot.gov

NC Intercity Passenger Rail Service

Highest ridership in 32-year history

NC BY TRAIN



2023, 1st Quarter

Ridership topped

135,000

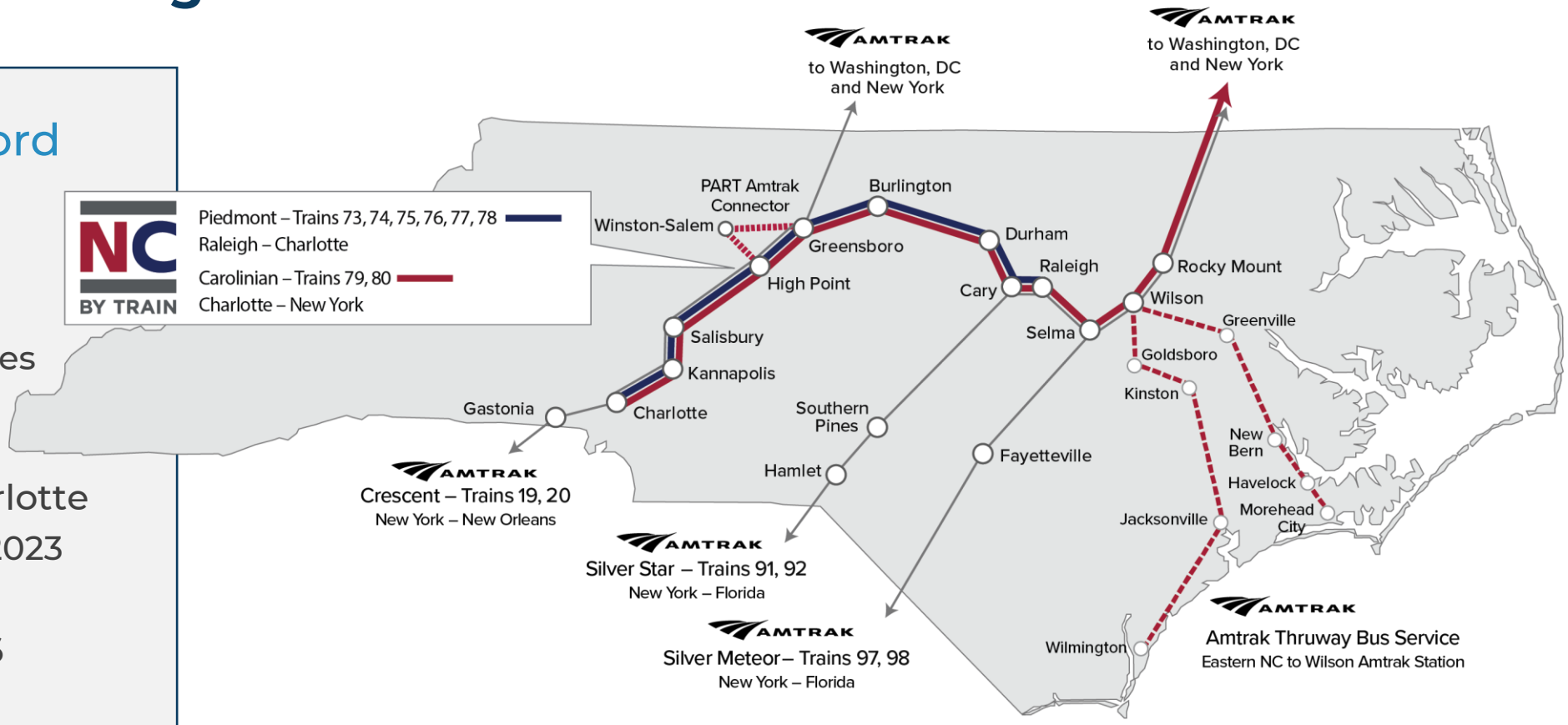
30% > than 1st Quarter 2019

50% > than 1st Quarter 2022

NC Intercity Passenger Rail Service

Ridership at record breaking levels

- *NC By Train*
  - among the best performing services during and post pandemic
- 5th Raleigh to Charlotte round-trip to start 2023
- Charlotte Gateway Station target 2026 completion



FRA Corridor ID Program Opportunities

12 Corridors Submitted:

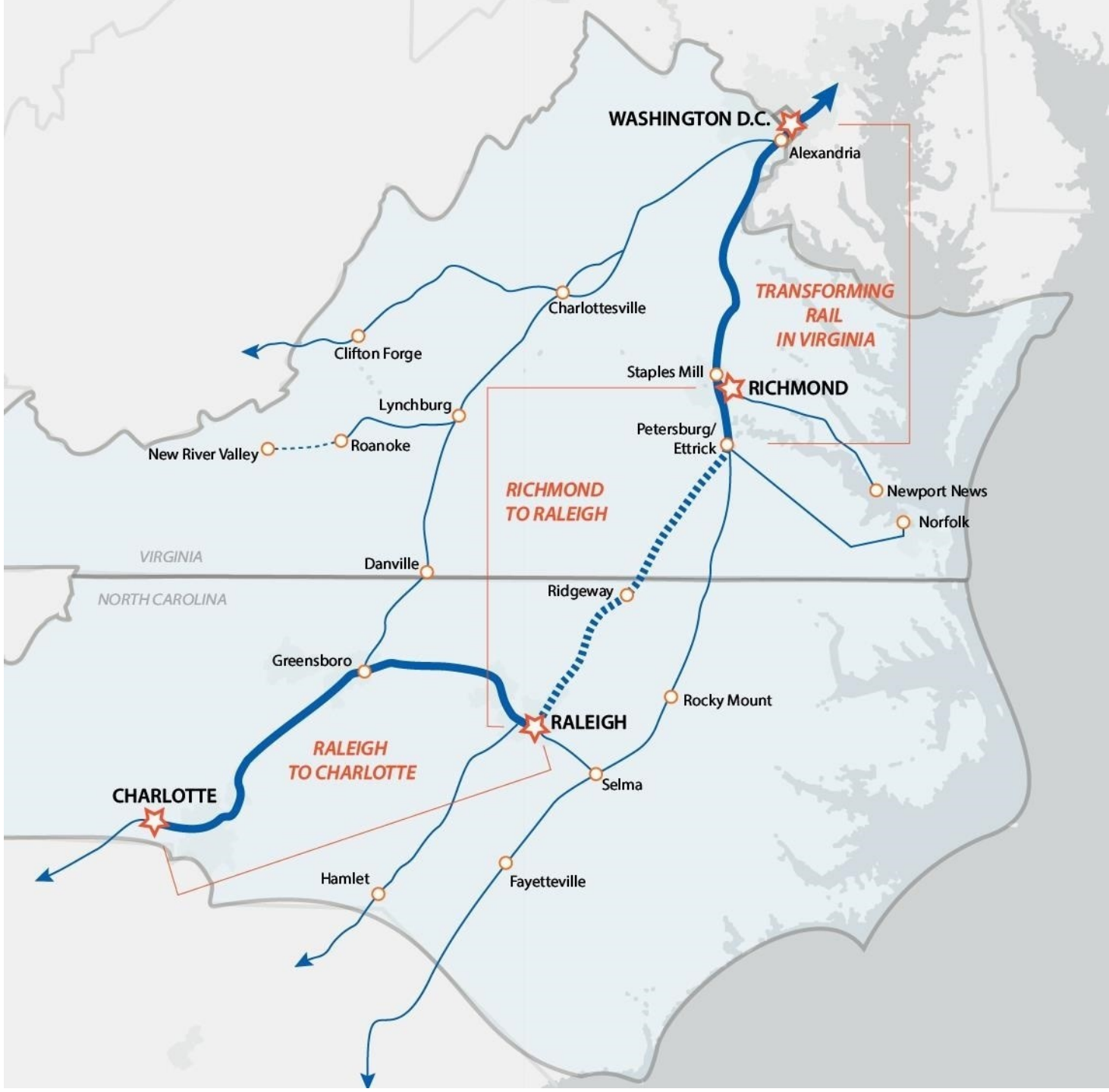
- Charlotte to Washington, DC
- Wilmington to Raleigh
- Charlotte to Kings Mountain
- Greenville to Raleigh
- Winston-Salem to Raleigh
- Hamlet to Raleigh
- Morehead City to Raleigh
- Fayetteville to Raleigh
- Winston-Salem to Charlotte
- Weldon to Raleigh
- Atlanta, GA to Charlotte
- Salisbury to Asheville

ncdot.gov

DC to Charlotte Intercity Passenger Rail Corridor

Three Segments

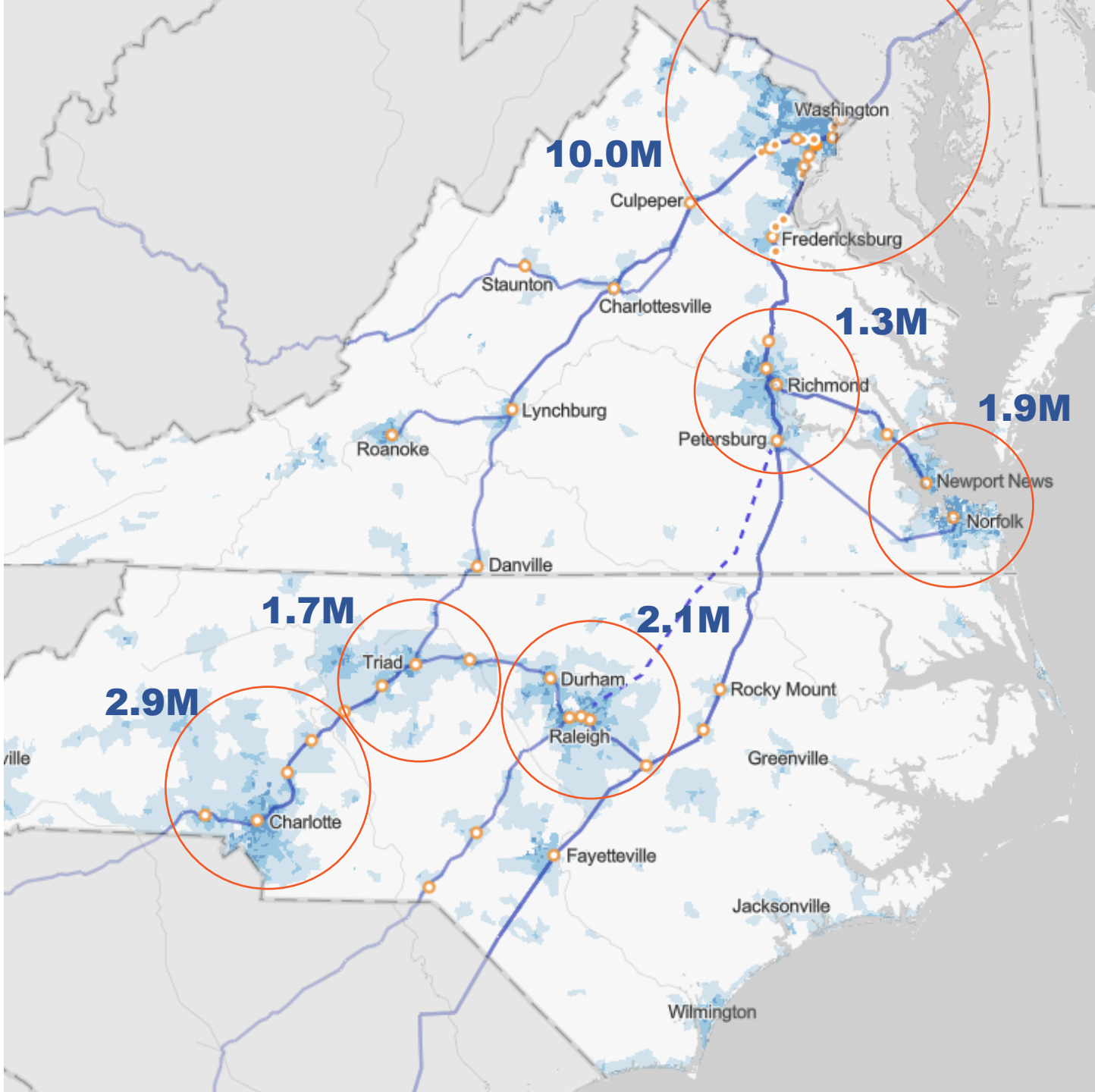
- **DC to Richmond**
  (Transforming Rail in Virginia)
  - Virginia leading
- **Richmond to Raleigh**
  - Partnership with Virginia
  - NC leading
- **Raleigh to Charlotte**
  - NC completed Piedmont Improvement Program
  - Additional incremental improvements



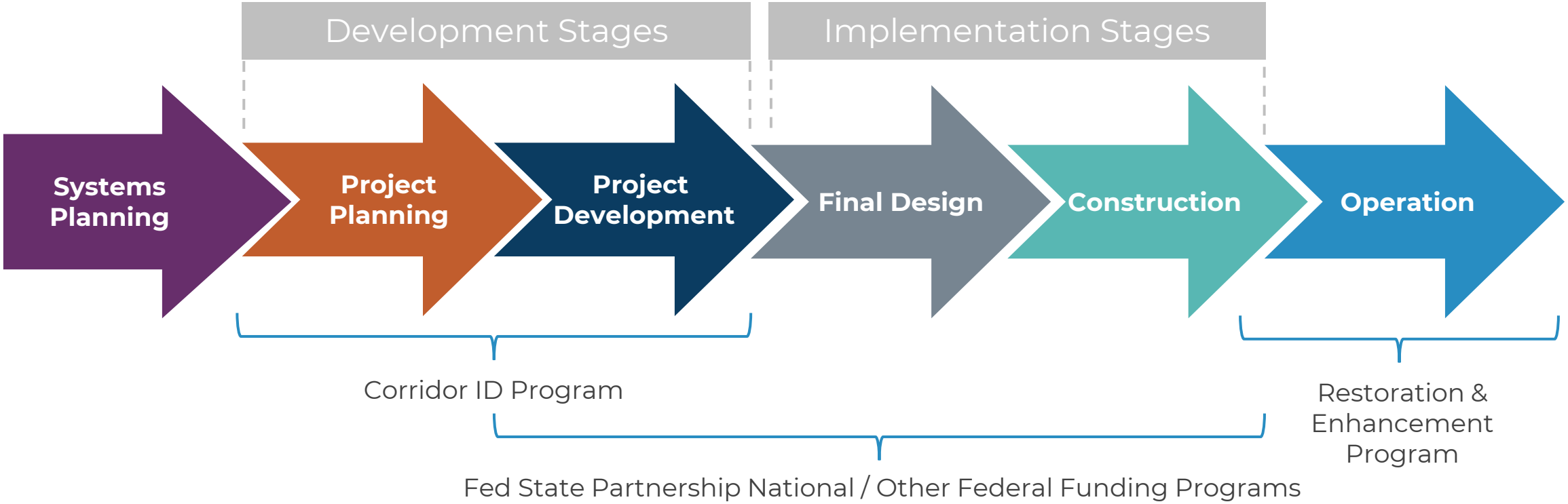
ncdot.gov

DC to Charlotte Corridor via S-line

- Direct connection between urban centers – 20M people – estimated to be 25M by 2040
- Additional capacity and over an hour in travel time saved between NC and VA
- Backbone of a regional multi-modal network
- Critical to further expanding the NC passenger rail system
- Provides freight network resiliency
- Environmental benefits
- Expands service to disadvantaged and underserved regions



FRA Project Lifecycle Stages – Corresponding FRA Funding Programs



Corridor ID Timeline

01

November 15, 2021
Enactment of the BIL

02

May 13, 2022
FRA established the Corridor ID Program within 180 days of enactment

September - December 2022
Extensive outreach to Corridor ID potential sponsors

03

December 2022
FRA publish a Notice of Corridor Solicitation and Funding Opportunity for the Corridor Identification and Development Program

January – April 2023
Extensive outreach to Class I railroads

04

May 13, 2023
First Congressional report on the Project Pipeline due one year following Program establishment

Corridor ID Timeline

June – July
Service Development Planning & Alternatives Analysis guidance preview

05

Late Summer 2023
Selections into Corridor ID program announced

06

Fall 2023
Selections under Fed-State Partnership National announced

07

Fall 2023- Spring 2024
Corridors selected under Corridor ID complete Step 1 and begin Step 2

08

February 2024
2nd Congressional report on the Project Pipeline due one year following Program establishment

Bipartisan Infrastructure Law – FRA Perspective

[ADVANCED APPROPRIATIONS]

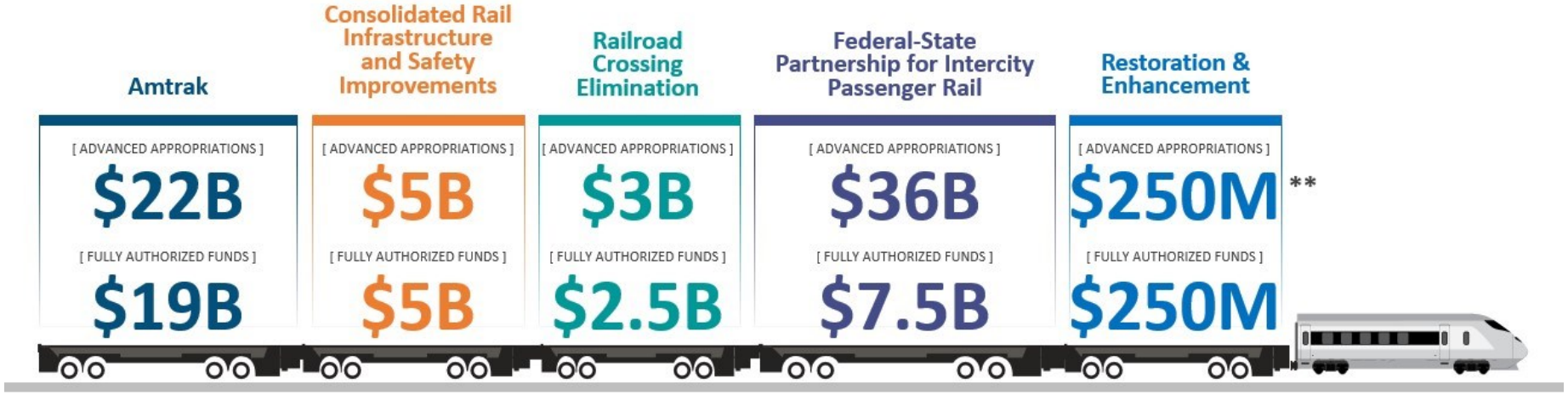
From FY22-FY26

$66B in total funding

[FULLY AUTHORIZED FUNDS]

From FY22-FY26

$36B* in total funding



** $34.5 billion for grant programs; additional $1.5 billion is authorized for FRA operations and R&D – not included in this graphic.*
*** Grants for Restoration & Enhancement (advanced appropriations portion) are funded through "takedowns" from Amtrak NN account; not included in totals to avoid double-counting.*

Thank you!

6.1 Rail Corridor Identification & Development Program

Requested Action:

Receive as information.

CAMPO
NC Capital Area Metropolitan Planning Organization

6.2 Complete 540 - Update

CAMPO
NC Capital Area Metropolitan Planning Organization

Complete 540 Update

Dennis Jernigan, P.E.

April 19, 2023

Providing drivers more choices for their commute

NORTH CAROLINA
Turnpike Authority

N
Raleigh
Knightdale
Knightdale Bypass
Cary
Apex
Holly Springs Rd.
Garner
Pierce Olive Rd.
Holly Springs
Ten-Ten Rd.
Fanny Brown Rd.
Clayton
Fuquay Varina
TOLL
Phase 1
STIP Projects
R-2721A
R-2721B
R-2828
Current Construction
Phase 2
STIP Project
R-2829A
R-2829B
Future Construction
A
STIP Project
R-2721A
B
STIP Project
R-2721B
C
STIP Project
R-2828
D
STIP Project
R-2829A
E
STIP Project
R-2829B
Interchanges
1 - N.C. 55 Bypass
2 - Holly Springs Rd. (S.R. 1152)
3 - Bells Lake Rd. (S.R. 1386)
4 - Fayetteville Rd. (U.S. 401)
5 - Old Stage Rd. (S.R. 1006)
6 - N.C. 50 / Benson Rd.
7 - I-40 & U.S. 70
8 - White Oak Rd. (S.R. 2700)
9 - U.S. 70 Business
10 - Rock Quarry Rd. (S.R. 2542)
11 - Auburn Knightdale Rd. (S.R. 2555)
12 - Poole Rd. (S.R. 1007)
13 - U.S. 64 / 264 (I-87)

Complete 540 Phase 1 of Construction

N
Raleigh
Knightdale
Knightdale Bypass
Cary
Apex
Holly Springs Rd.
Garner
Pierce Olive Rd.
Holly Springs
Ten-Ten Rd.
Fanny Brown Rd.
Fuquay Varina
TOLL
Phase 1
STIP Projects
R-2721A
R-2721B
R-2828
Current Construction
Phase 2
STIP Project
R-2829
Future Construction
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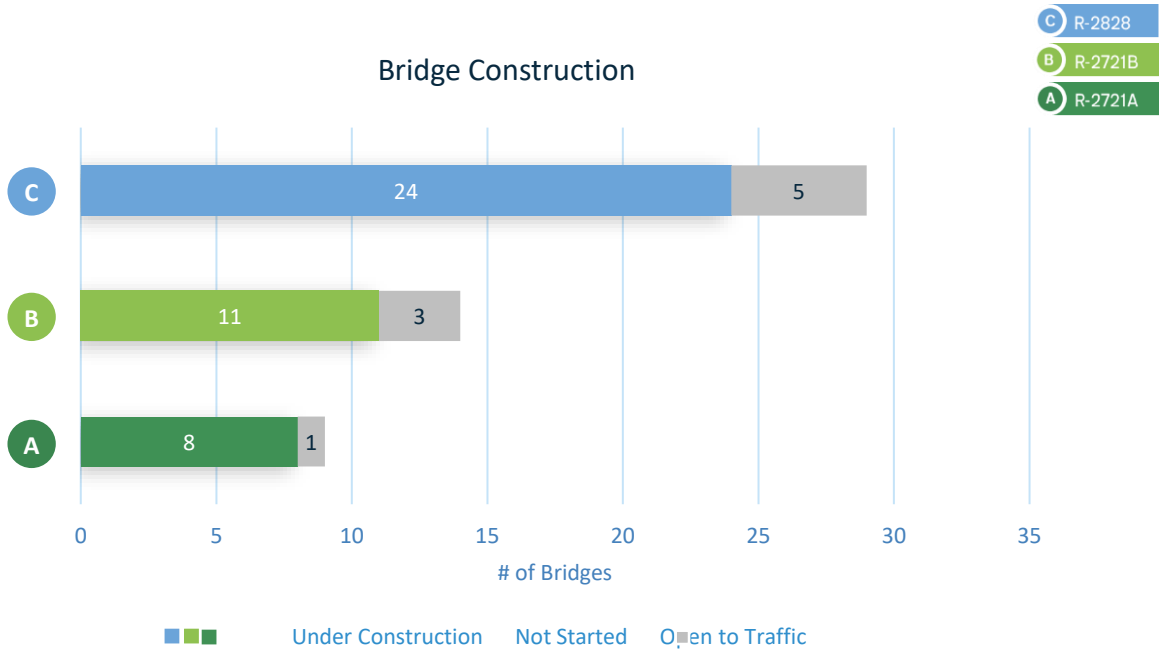
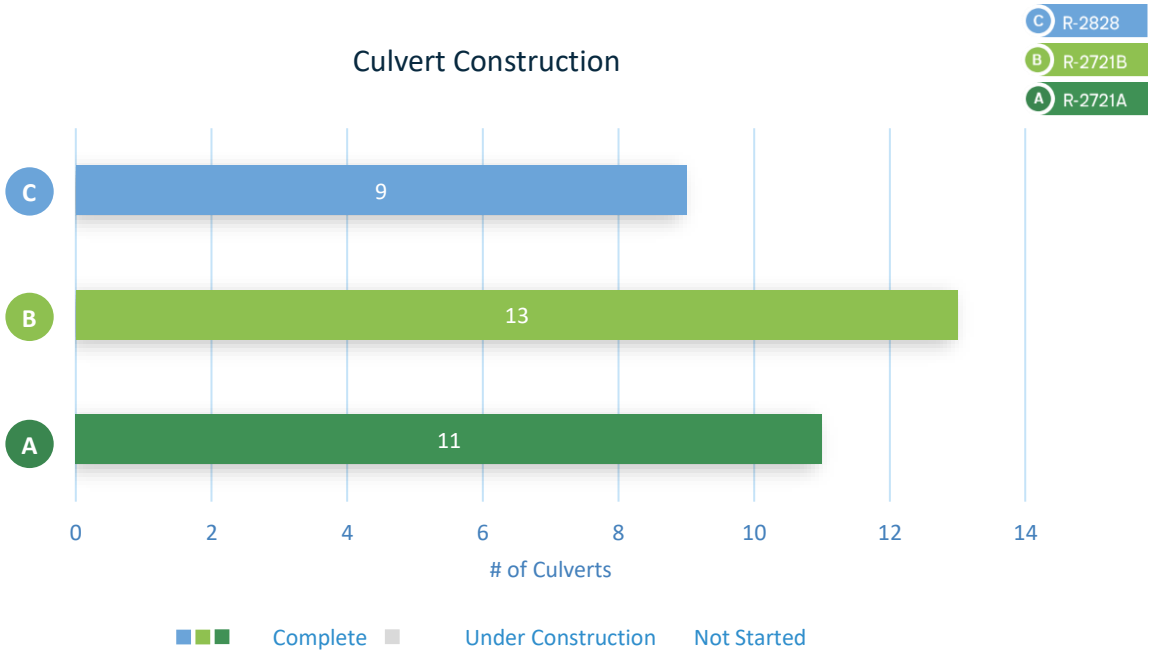
11 - Auburn Knightdale Rd. (S.R. 2555)
12 - Poole Rd. (S.R. 1007)
13 - U.S. 64 / 264 (I-87)

On Grade

Stabilized Soil and Bridge Construction

Bridge & Culvert Construction





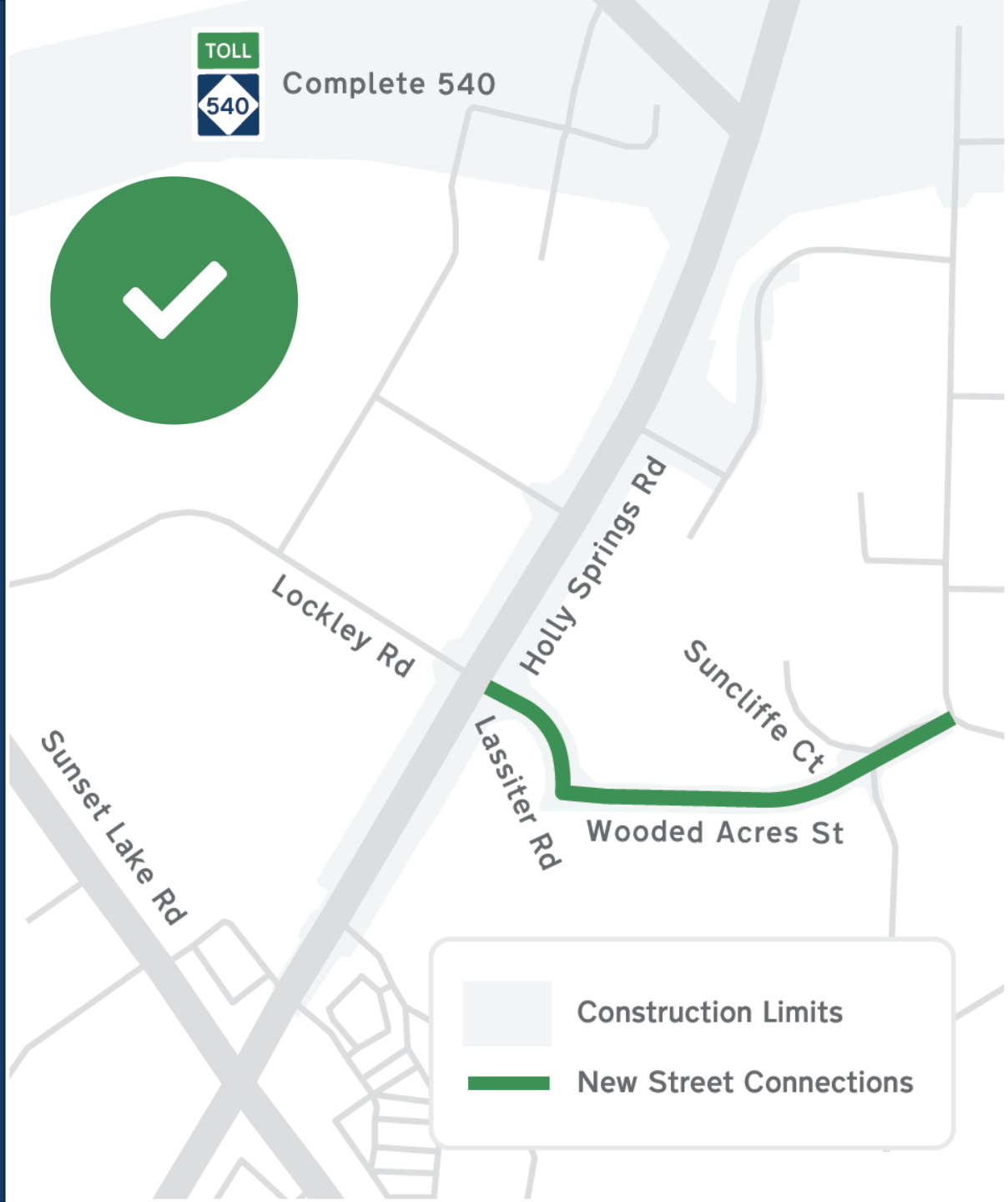
Updated 4-12-2023

Noisewall Construction

Paving

Complete 540 Openings

- Old Stage Road
  - April 2023
- West Lake Road
  - March 2023
- Relocated Rolling Farm Drive
  - January 2023
- River Falls Pedestrian Trail and Culvert
  - November 2022
- Sunset Lake Road (1 of 2)
  - November 2022
- US-401
  - November 2022
- Holland Church Road
  - September 2022
- Lassiter Road and Wooded Acres Street
  - August 2022
- NC-50
  - August 2022
- Deerborn Drive Extension
  - July 2022
- New Bethel Church Road
  - July 2022
- Kildaire Farm Road
  - May 2022
- Johnson Pond
  - April 2022
- Fanny Brown Road
  - November 2021



Complete 540 Phase 2

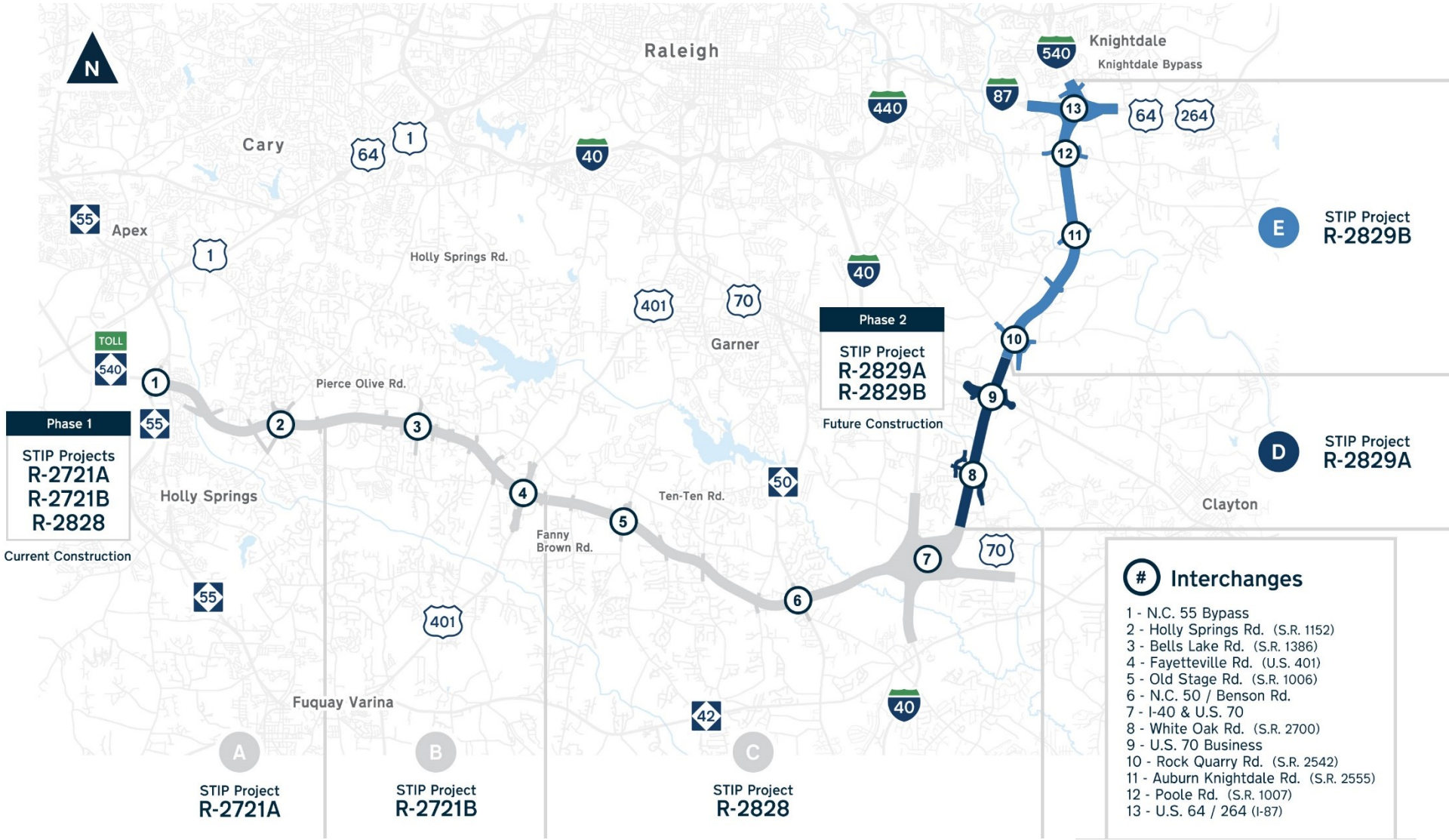
Complete 540 Phase 2

R-2829A

- 4.4 miles
- 2 full interchanges + 1 partial

R-2829B

- 6.6 miles
- 3 full interchanges + 1 partial



R-2829B

RFQ Advertisement	November 15, 2022
Statement of Qualifications due from Design-Build Teams	December 20, 2022
Department Announces Short-listed Teams	January 18, 2023
Department Issues Industry Draft RFP to Short-listed Teams	January 18, 2023
First Meeting with Short-listed Teams	February 1, 2023
Department Issues Second Industry Draft RFP to Short-listed Teams	February 15, 2023
Department Holds Statement of Qualifications Debriefs	Week of February 20, 2023
Second Meeting with Short-listed Teams	March 1, 2023
Department Issues Final RFP to Short-listed Teams	March 22, 2023
Technical Proposals and Fuel Usage Factor Chart / Estimate of Quantities Due	June 22, 2023
Sealed Price Proposals Due	July 11, 2023
Technical Presentations by Short-listed Teams	July 12, 2023
Open Price Proposals	July 18, 2023
Department Holds Technical Proposal Debriefs (Pending Contract Execution)	Week of August 21, 2023

NOTE: All dates are approximate and subject to change.

NORTH CAROLINA Turnpike Authority

R-2829A

RFQ Advertisement	February 1, 2023
Statement of Qualifications due from Design-Build Teams	February 28, 2023
Department Announces Short-listed Teams	March 16, 2023
Department Issues Industry Draft RFP to Short-listed Teams	March 16, 2023
First Meeting with Short-listed Teams	April 4, 2023
Department Holds Statement of Qualifications Debriefs	Week of April 17, 2023
Department Issues Second Industry Draft RFP to Short-listed Teams	April 18, 2023
Second Meeting with Short-listed Teams	May 2, 2023
Department Issues Final RFP to Short-listed Teams	May 16, 2023
Technical Proposals and Fuel Usage Factor Chart / Estimate of Quantities Due	August 24, 2023
Sealed Price Proposals Due	September 12, 2023
Technical Presentations by Short-listed Teams	September 13, 2023
Open Price Proposals	September 19, 2023
Department Holds Technical Proposal Debriefs (Pending Contract Execution)	Week of October 23, 2023

NORTH CAROLINA Turnpike Authority

NOTE: All dates are approximate and subject to change.

Complete 540 Phase 2 - Preconstruction Activities

Completed Activities

- Environmental Document
- Section 404/401 Corridor Permits
- Biological Opinion
- Air Quality Conformity
- Final Surveys
- Traffic Forecasts and Analysis
- Service Road Study
- Confirmation of Environmental Mitigation Availability
- Roadway and Structure
- Geotechnical Investigations
- Update Project Cost Estimate
- Refining Preliminary Design
- Developing Pavement Design and Life Cycle Analyses
- Railroad Coordination
- Industry Coordination

Activities Underway

- Advanced Acquisition of Certain Right-of-Way Parcels
- Coordination with Owners of Towers Regarding Needed Relocations
- Planning for Community Water and Sewer Conflict Resolutions
- Planning for Other Long Lead-Time Items
- Utility Coordination
- Developer Coordination
- Refine Plans for Right-of-Way Acquisition
- Design-Build Procurement

FAA Communications Tower Relocation – R-2829B

- Was on private property at Rock Quarry Road – Parcel 30 ~ Sta 1208+00
- Tower removed from property
- All work for this relocation was completed by others
- Ongoing coordination is underway

SBA Cell Tower Relocation – R-2829B

- Currently on southeast corner of the Raleigh Rugby Club property – Parcel 53 ~ Sta 1433+00
- All work for this relocation is being completed by others
- Ongoing coordination is underway
- Town of Knightdale has issued a special use permit
- NEPA underway

NORTH CAROLINA
Turnpike Authority

WELCOME

Session Agenda

9:00 a.m. – 9:30 a.m.	Open Registration for DBE Outreach Session
9:30 a.m. – 9:45 a.m.	Civil Rights Overview
9:45 a.m. – 10:15 a.m.	Certifications (DBE, SBE, HUB, SPSF)
10:15 a.m. – 10:45 a.m.	On-the-Job Training Program (OJT)
10:45 a.m. – 11:15 a.m.	Business Opportunity and Workforce Development
11:15 a.m. – 11:30 a.m.	Utilization and Contractor Compliance, Title VI, EEO
11:30 a.m. – 12:00 p.m.	NC Turnpike Authority Overview
12:00 p.m. – 1:00 p.m.	Networking/Lunch on your own and Open Registration for Industry Forum
1:00 p.m. – 3:00 p.m.	Industry Forum (Complete 540 Phase 2)
3:00 p.m. – 4:00 p.m.	Networking

Meeting Overview

The Outreach Session will include information about certification support services, Disadvantaged Business Enterprise (DBE) utilization and compliance, and laws governing DBE work with NCDOT. The Industry Forum will include a discussion on project scope, DBE goals, and contracting opportunities for the Complete 540 Phase 2 project.

Sign-in & Name Tags

When you sign in at the sign-in table, you will be handed a name tag. Name tag color categories below:

- DBE Firm
- Design Firm
- Prime Contractor
- Subcontractor

For your information, the sign in sheets from today's event will be posted on the NCDOT Design-Build website at https://connect.ncdot.gov/letting/Pages/Design-Build.aspx

Meeting Refreshments

Vending machines and tables are located in the café of the McKimmon Center.

DBE Outreach Session

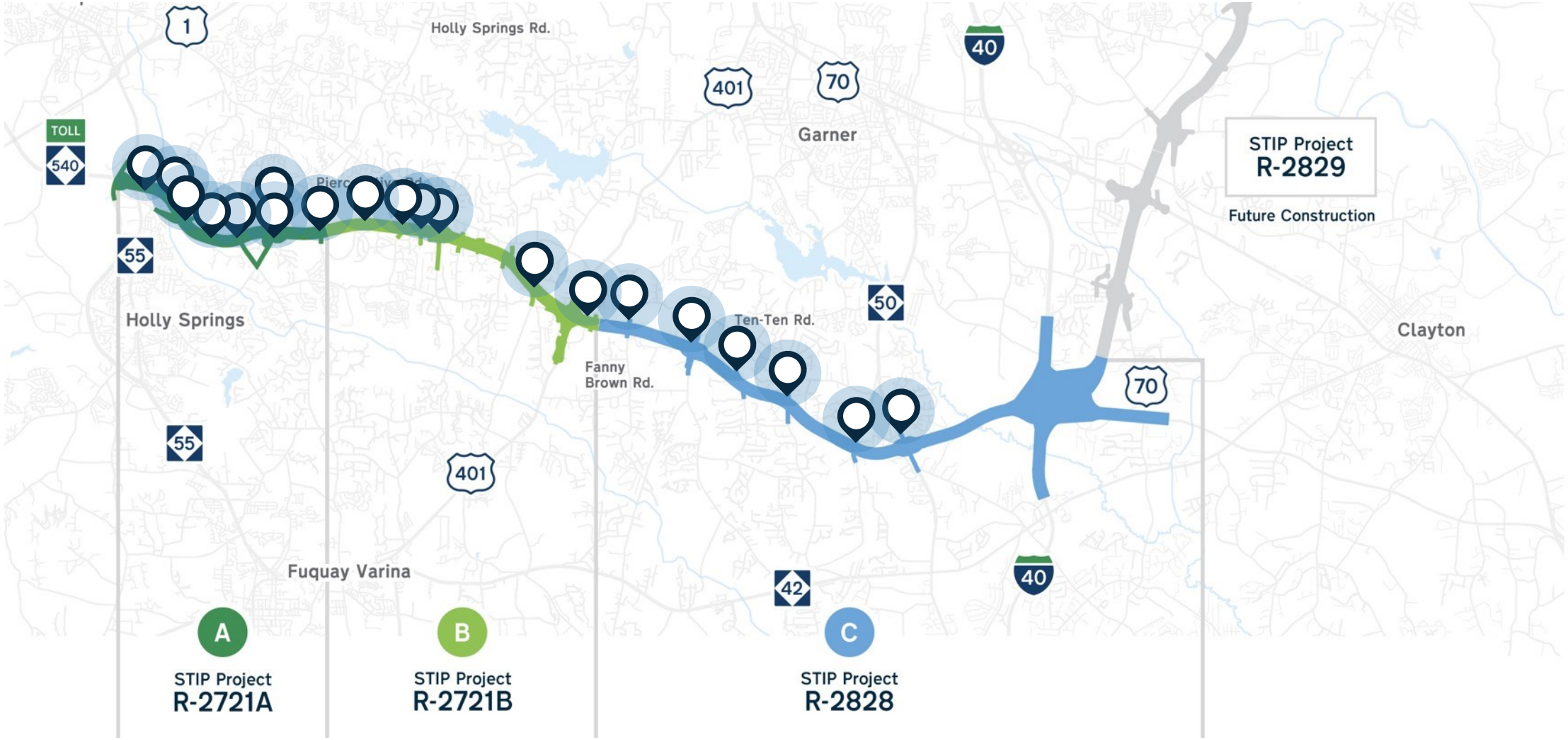
Phase 2 Industry Forum

Prime/DBE Networking

For the Benefit

of the Neighborhood

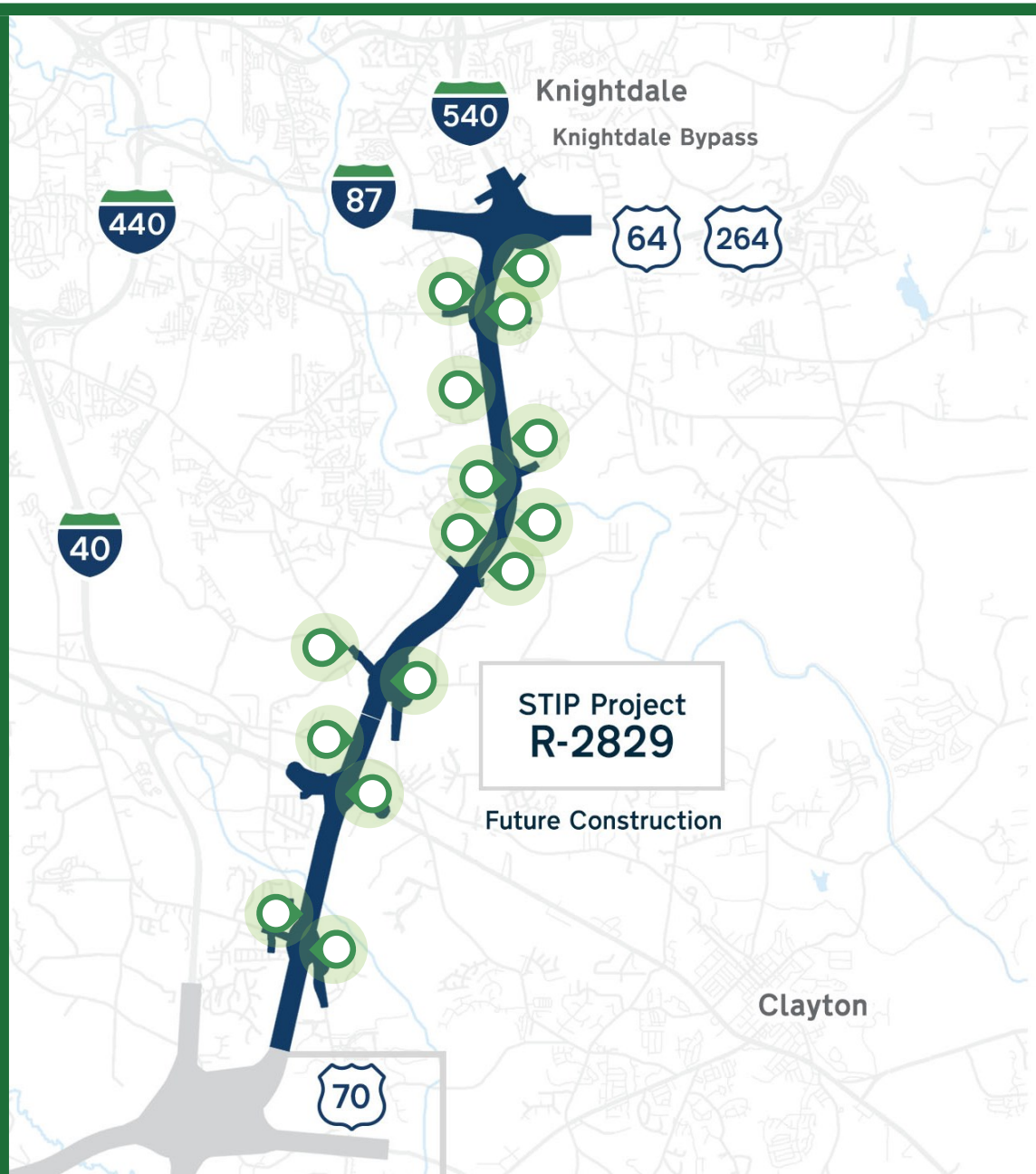
Bike/Pedestrian/Multi-Use Accommodations – Phase 1



Bike/Pedestrian/Multi-Use Accommodations – Phase 2

- Collaboration with:

  - Garner
  - Knightdale
  - Raleigh
  - Wake County
  - Wake County Public School System



Bicycle Accommodations

- Shared Bike Lanes
  - East Williams Street
  - Sunset Lake Road
    - Both crossings
  - Lake Wheeler Road
  - N.C. 50 (Benson Road)
  - White Oak Road
  - Rock Quarry Road
  - Auburn Knightdale Road
  - Poole Road
- Separate Bike Lanes
  - Holly Springs Road

Multi-Use Accommodations

- Multi-Use Paths
  - WoodCreek Pedestrian and Bicycle Path
  - Old McCullers Multi-Use Path
  - White Oak Road Multi-Use Path
  - US 70 Business Multi-Use Path
  - Rock Quarry Road Multi-Use Path
  - Auburn Knightdale Road Multi-Use Path
  - Poole Road Multi-Use Path

- Greenways
  - Middle Creek Greenway
  - Camp Branch Greenway
  - Optimist Farm Greenway
  - Old Stage Road Greenway
  - White Oak Creek Greenway
  - Future Greenway Connector at Randleigh Farm
  - Neuse River Greenway Trail
  - Future Neuse River Trail

Pedestrian Accommodations

Sidewalks

- Part of Complete 540
  - East Williams Street
  - Sunset Lake Road
    - 2 crossings
  - Holly Springs Road
  - Old Stage Road
  - N.C. 50 (Benson Road)
  - White Oak Road
  - Poole Road

- Ready for Future Improvements
  - East Williams Street
  - Pierce Olive Road
  - West Lake Road
  - Bells Lake Road
  - Lake Wheeler Road
  - Fanny Brown Road
  - Holland Church Road
  - Sauls Road
  - US 70 Business
  - Rock Quarry Road
  - Auburn Knightdale Road

Community Outreach

Complete 540 Outreach

Public Meetings

Over 4,000 participants over 102 public meetings

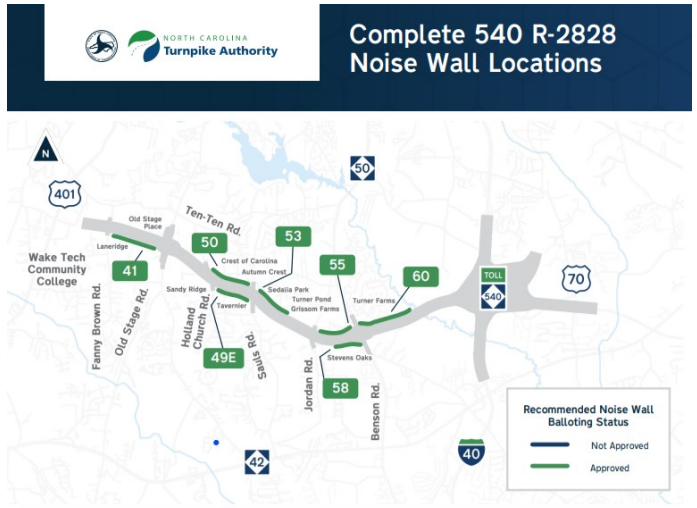
Informing Residents

25,650 postcards &
86 Nextdoor posts

Resident Inquiries

1,761 emails & 1,055 calls to the Complete 540 Hotline

Resources at ncdot.gov/complete540

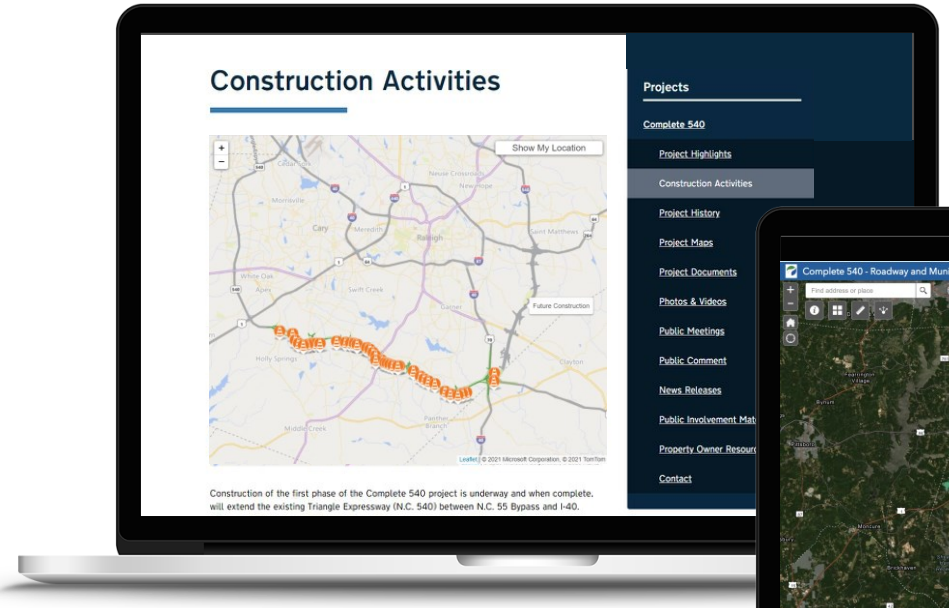


Noise Wall #	Location	Length (feet)	Height Range (feet)	Construction Timeframe*	Balloting Status
41	East of Fanny Brown Rd. South side of Complete 540	4,898	5-27	TBD	Approved
49E	West of Sauls Rd. South side of Complete 540	1,980	7-25	TBD	Approved
50	West of Sauls Rd. North side of Complete 540	2,025	14-21	TBD	Approved
53	East of Sauls Rd. North side of Complete 540	3,953	13-28	TBD	Approved
55	West of Benson Rd. North side of Complete 540	4,890	8-28	TBD	Approved
58	West of Benson Rd. South side of Complete 540	4,885	10-27	TBD	Approved
60	East of Benson Rd. North side of Complete 540	1,245	7-26	TBD	Approved

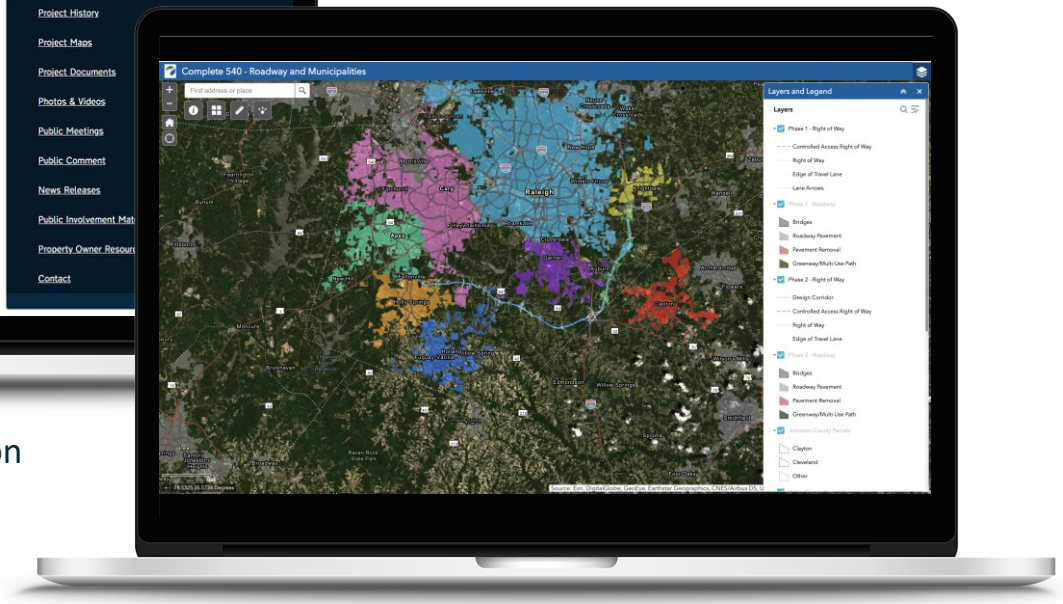
* Construction dates are subject to change.
Noise wall locations shown are approximate.

February 2021

Noise Wall Locations Handout



Interactive Map for Construction Activities



Preferred Alternative Interactive Map

If you have any questions, please contact us at complete540@ncdot.gov or 1-800-554-7849

Contact Us

ncdot.gov/complete540

complete540@ncdot.gov

1-800-554-7849

@NCTurnpike

@NC_QuickPass

Providing drivers more choices for their commute

6.2 Complete 540 - Update

Requested Action:

Received as information.

CAMPO
NC Capital Area Metropolitan Planning Organization

6.3 Southeast Area Study Update

CAMPO
NC Capital Area Metropolitan Planning Organization

Southeast Area Study Update

Executive Board

SEAS
SOUTHEAST AREA STUDY
UPDATE

April 19th, 2023

Agenda

1. Project Background
2. Public Engagement
3. Scenario Planning
4. DRAFT Modal Recommendations
5. Upcoming Steps
6. Q&A

Project Background

SEAS
SOUTHEAST AREA STUDY
UPDATE

What is the SEAS Update?

This study **integrates land use and transportation** to accommodate existing and future travel needs for the purpose of reevaluating and revising, as needed, the **unified vision and comprehensive transportation strategy** established in the 2017 SEAS.

Partnership

CAMPO
NC Capital Area Metropolitan Planning Organization

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UPPER COASTAL PLAIN
RURAL PLANNING ORGANIZATION

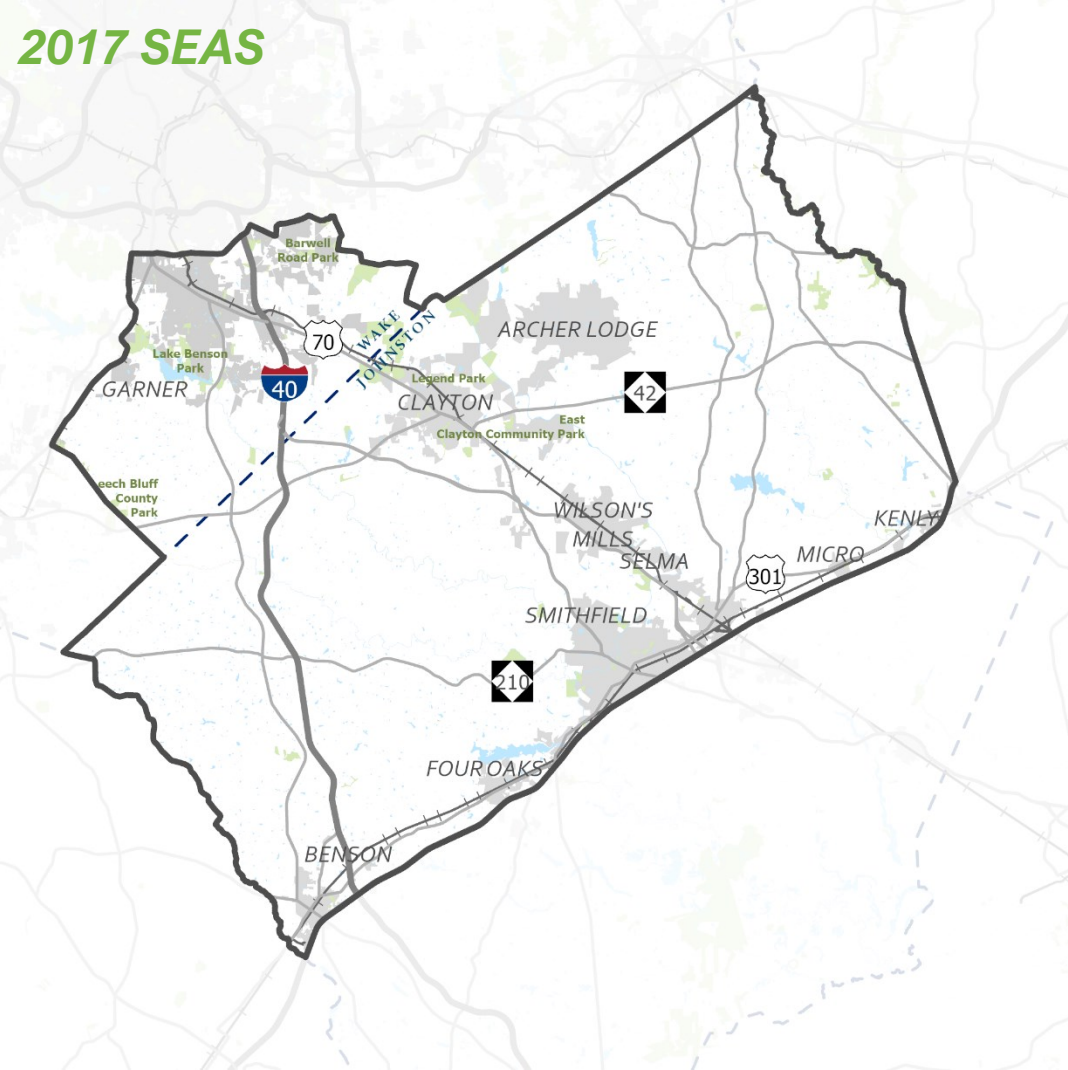
Growth and Expansion

Population Growth

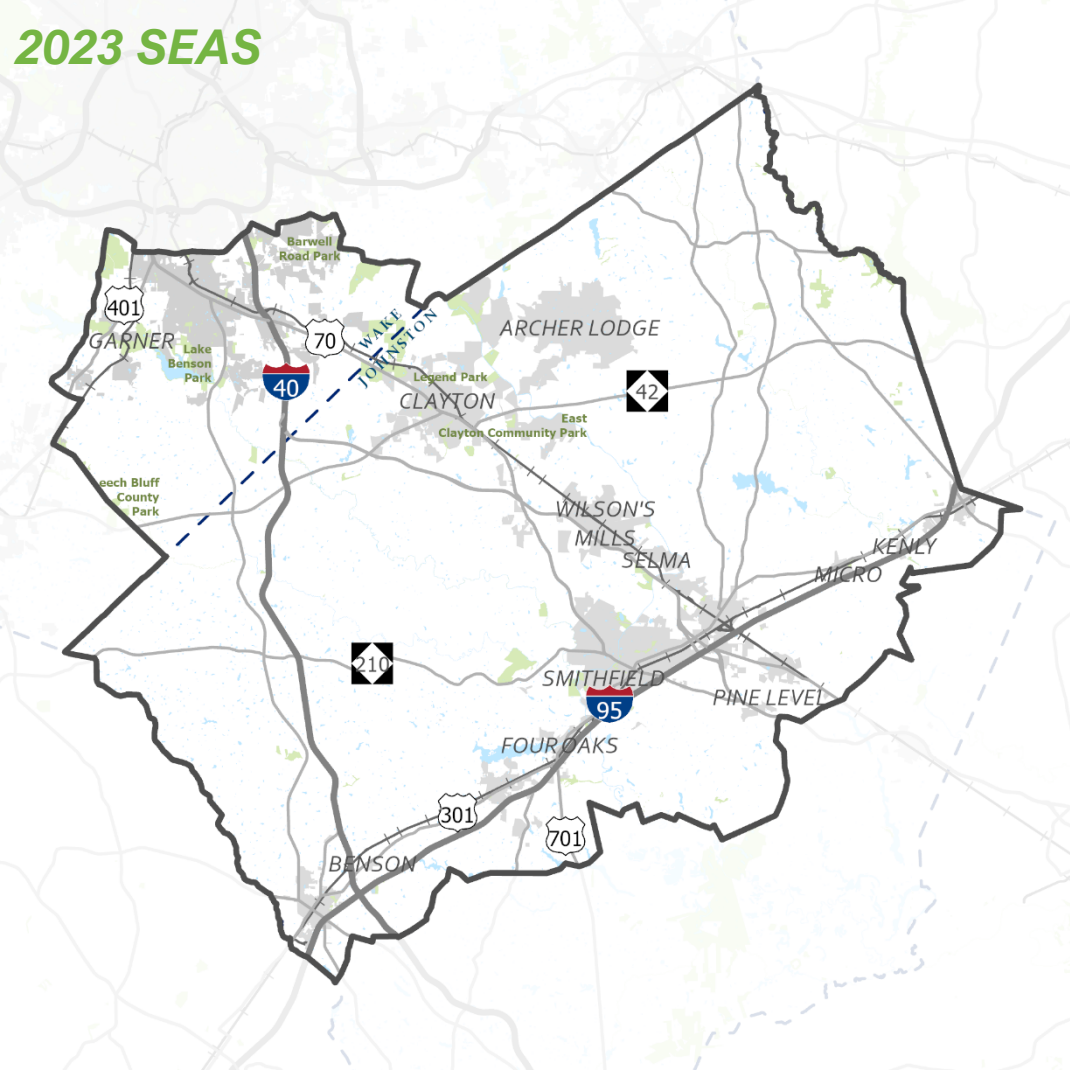
original 2017 study estimated **+10,000** people by 2022

ACS data showed **+21,638** people by 2020

2017 SEAS



2023 SEAS



Guiding Principles

LIVABILITY
Enhance and promote our region's quality of life through transportation and land use decisions that equitably support public health, education, parks and recreation, public art, and local character.

TRAFFIC FLOW
Make it easier to move within and through our region by reducing congestion and improving roadway operations.

SUSTAINABLE GROWTH
Blend development decisions and transportation strategies to promote and sustain employment and population growth by offering housing and neighborhood choices to meet diverse needs while preserving the area's natural features.

TRAVEL SAFETY
Promote a safer, more secure transportation system by reducing crashes, enhancing reliability and predictability, and improving emergency coordination.

ACTIVE TRANSPORTATION
Integrate our transportation network to provide travel choices, especially walking and cycling, for all users, regardless of age and ability.

NETWORK CONNECTIVITY
Link local and regional destinations through improved connections and enhanced integration among travel modes.

ECONOMIC VITALITY
Grow our economy through a transportation network by connecting residents to jobs, goods, services, and opportunities within and beyond our region.

FREIGHT MOVEMENT
Support global competitiveness of our region through a transportation network that efficiently moves goods and services.

Project Schedule

March – April '22

- Start up and Preparation
- Engagement Diagnostic
- Branding
- PEP
- Data Collection

May – Dec '22

- State of the Region
- Policy and Plan Review
- Existing Land Use
- Hot Spot Menu

Jan – May '23

- Baseline Scenarios
- Deficiency Analysis
- Scenario Testing
- Multimodal Recommendations Development
- Policy and Land Use Best Practices Toolbox
- Hot Spot Analysis

June – August '23

- Prioritization
- Cost Opinions
- Implementation Strategy
- Documentation

Sept - Oct '23

- Presentations and Adoption Efforts

Public Engagement

Discover
May – August 2022

Involve
September 2022 – May 2023

Consult
June – September 2023

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Public Engagement

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Who's involved?

CAMPO Committees	Stakeholder Oversight Team (SOT)	Core Technical Team (CTT)	Public
Local Jurisdiction Members	Key Community Stakeholders	Elected Officials	Consultants

Engagement Phases

1

Discover

May – August 2022

2

Involve

September 2022 – May 2023

3

Consult

June – September 2023

Phase I Engagement | Overview

- Email & social media blasts
- Pop-up events
- Online survey
- Work with Committees
- Meetings with local jurisdictions & county planning staff

Online Survey

7 questions about: Visioning, Transportation, Land Use

601 participants

6,610 individual data points

818 written comments

Jurisdictional Meetings

Meetings held with local planning staff from each of the 12 study area municipalities to vet the study scenario's planning process and preferred growth strategy

Pop-up Events

8 events from July 11 to July 29th across the study area

Committees

Stakeholder Oversight Team

Core Technical Team

Email & Social Media

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Jurisdictional Meetings

Meeting 1

August 3rd

- Archer Lodge
- Clayton
- Garner
- Raleigh
- Johnston and Wake Counties

Meeting 2

August 4th

- Benson
- Four Oaks
- Kenly
- Pine Level
- Johnston County

Meeting 3

August 5th

- Smithfield
- Selma
- Wilson's Mills
- Johnston County

Meeting 4

January 11th

- Benson
- Four Oaks
- Kenly
- Micro
- Pine Level
- Smithfield
- Selma
- Wilson's Mills
- Johnston County

Meeting 5

January 11th

- Archer Lodge
- Clayton
- Garner
- Raleigh
- Johnston County
- Wake County

Phase II Engagement | Looking Ahead

- Public Symposium
- Email & social media blasts
- Draft Preferred Scenario
- Draft Modal Recommendations

Public Symposium

Email & Social Media

Committees

Stakeholder Oversight Team

Core Technical Team

Outreach Toolbox

Email and social media post templates

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Scenario Planning

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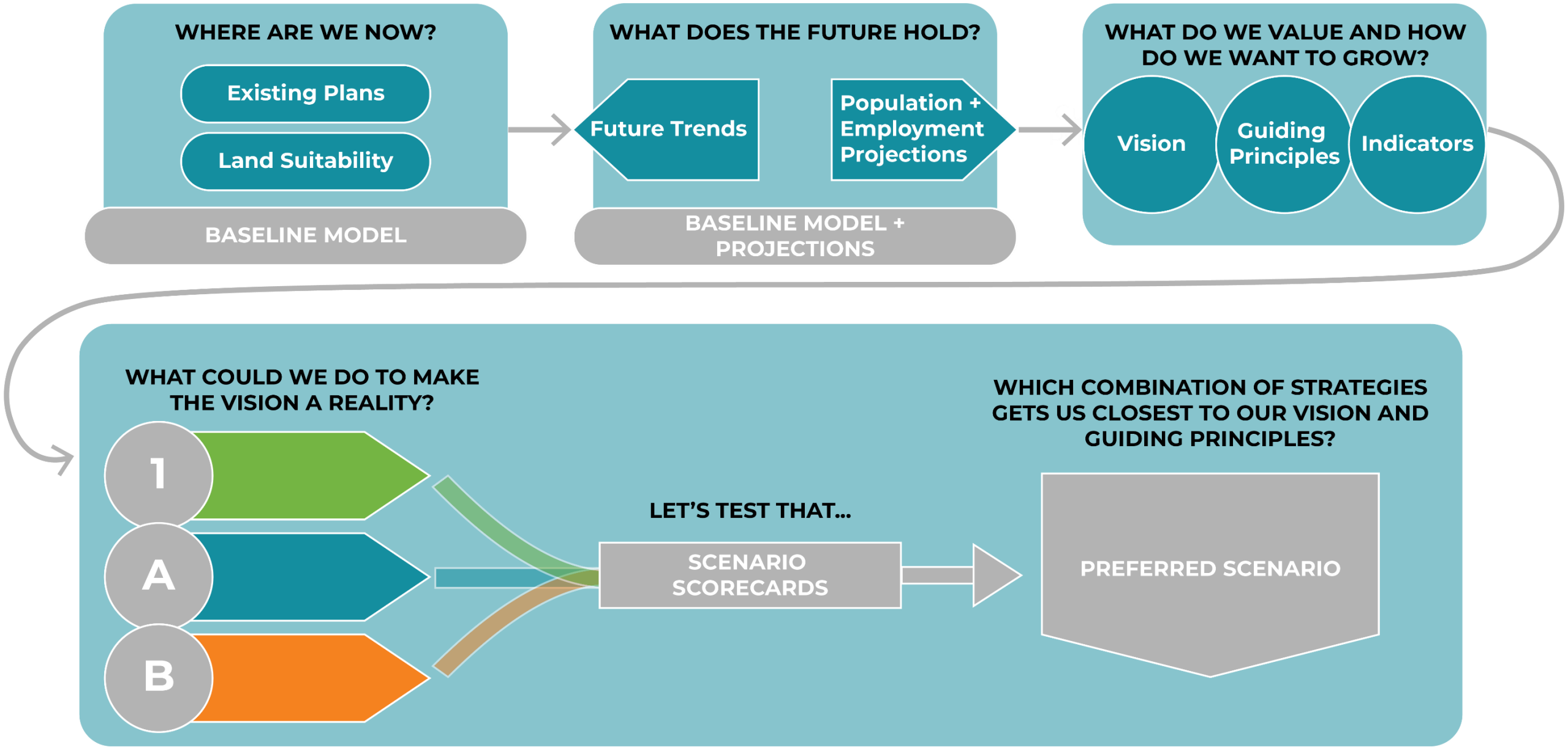
Land Use Scenario Planning | Process



Scenario Development | Three Narratives

Scenario 1 — Existing Plans (Dispersed)

- How growth would occur if we followed current land use plans where development continues an outward pattern of single-family subdivisions in suburban and rural areas enabled by the expansion of infrastructure

Scenario A — Corridors

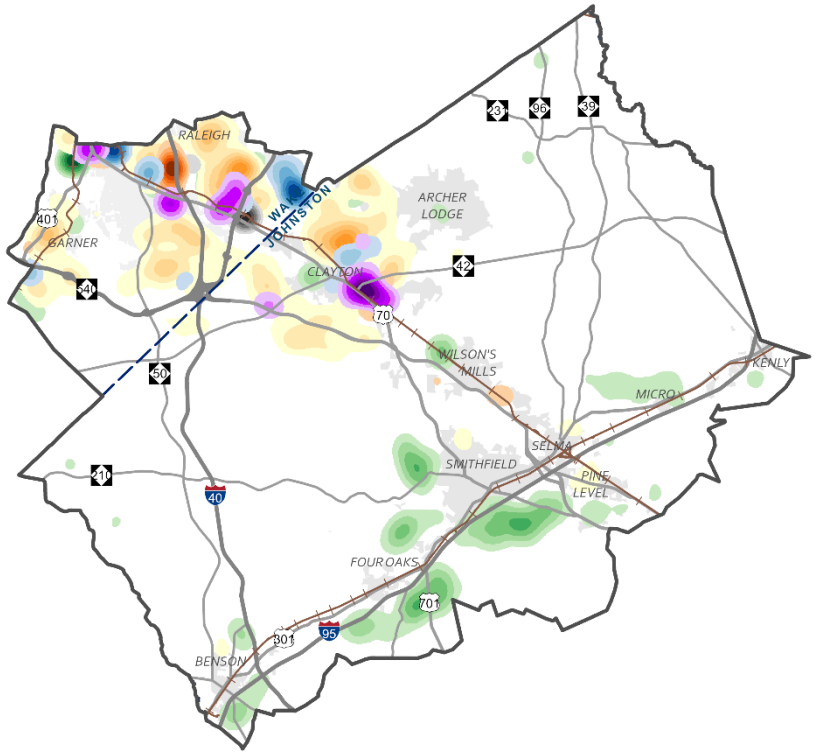
- How growth would occur if suburban and rural single-family growth was balanced with redevelopment and investment along major corridors including a mix of retail, employment, & multifamily

Scenario B — Centers

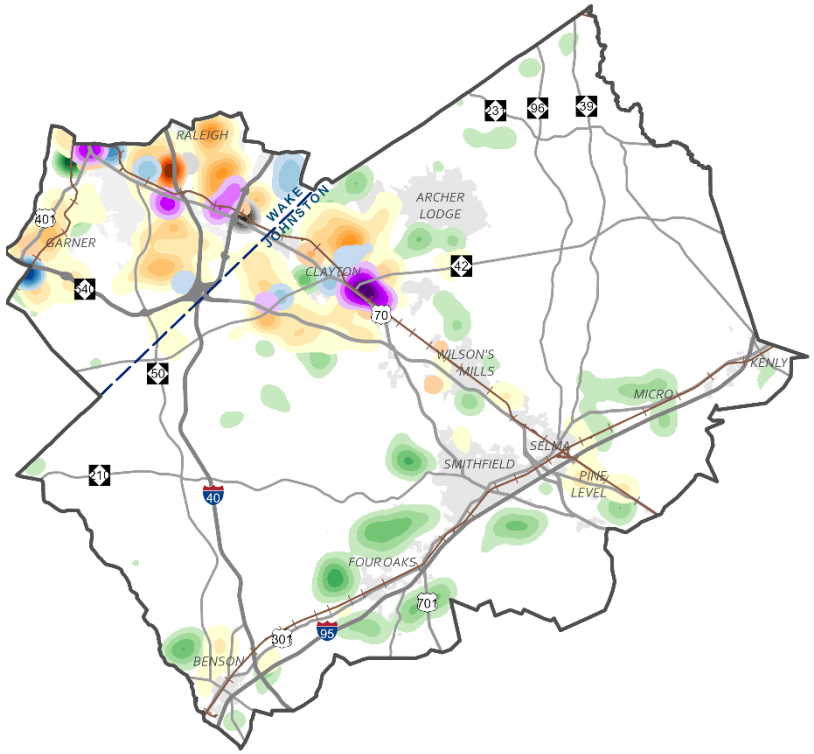
- How growth would occur if we focused density to core of existing downtown communities while establishing new mixed-used centers with a mix of retail, offices, homes, schools, parks & public spaces. More suburban neighborhoods are separated from employment and commercial areas, but have multimodal connections to them

Population and Employment Growth by Land Use Patterns

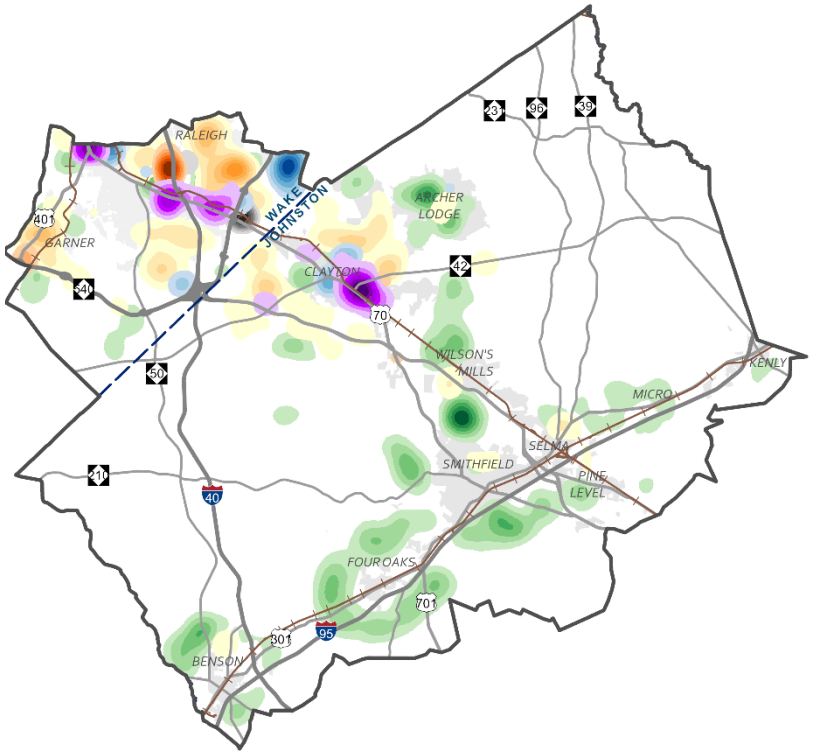
Existing Plans



Corridors



Centers



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Rural

Suburban

City and Town

Office and Retail

Industrial

Special

Scenario Scorecard

Indicator	Existing Plans	Corridors	Centers	Guiding Principle
Land Consumed	59.45	▼	▼	
Net Residential Density	3.08	▲	▲	
Mix of Housing Types				
0-1 Units per Acre (Single-Family)	8,820	▼	▼	
2-4 Units per Acre (Single-Family)	42,310	▲	▼	
4-6 Units per Acre (Single-Family)	23,320	▼	▲	
6-10 Units per Acre (Townhomes)	4,600	▼	▲	
10-18 Units per Acre (Single-Family Attached)	300	▲	▲	
More than 18 Units per Acre (High Density Multifamily)	6,770	▼	▼	
Homes in Walkable Areas	16,390	▼	▲	
Homes within 1 mile of Employment Centers	78,080	▲	▲	
Homes near Transit				
Homes that can walk to local bus route (1/4 mile)	13,780	▼	▲	
Homes that can walk to BRT (1/2 mile)	15,510	—	—	
Jobs near Transit				
Jobs that can walk to local bus route (1/4 mile)	31,910	▲	▲	
Jobs that can walk to BRT (1/2 mile)	50,450	▲	▲	
Job and Home Balance	1.20	▲	▲	
Vehicle Miles Traveled	14,684,200	—	—	
Vehicle Hours of Delay	22,000	▼	—	
Lane Miles of Congested Corridors	171	—	—	

Excellent
Good
Fair
Poor
Very Poor

Upcoming Steps

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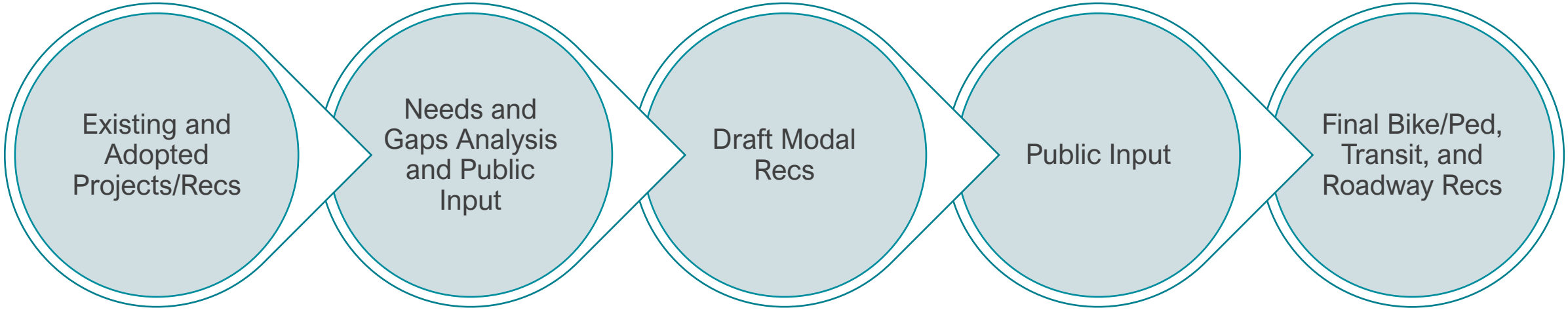
Upcoming Steps | Modal Recommendations



Upcoming Steps

- SOT Meeting
  - **Review draft preferred scenario** and **draft modal recommendations**
- Public Symposium
  - Public release of **draft preferred scenario** and **draft modal recommendations**
- Prioritization and Cost Estimation
- Documentation and Reporting
- TCC and TAC Endorsement

Questions?

Thank You!

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6.3 Southeast Area Study Update

Requested Action:

Receive as information.

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6.4 MTP Roadway Prioritization

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AGENDA

01 Project Team

02 Project Purpose

03 Project Tasks & Schedule

Project Team

Project Prioritization Methodology

High Street Consulting

Project Roles

Brittany Gernhard

Project Manager

Kevin Ford

Technical Lead

Alice Beattie

Deputy Project Manager

NC Capital Area MPO

Project Roles

Tim Shortley
CAMPO
Project Manager

Mike Bruff
CAMPO
Transportation Modeling Engineer

Alex Rickard
CAMPO
Deputy Director

Gerald Daniel
CAMPO
Transportation Modeling Engineer

David Keilson
NCDOT
Division Planning Engineer Div. 5

Matthew Day
Triangle J COG
Director of Transportation

Shelby Powell
CAMPO
Deputy Director

Phil Geary
NCDOT
Transportation Engineer TPD

- ✓ Responsibilities: Review criteria, provide data, provide feedback

Project Purpose

- **Identify and develop a robust and systematic approach for prioritizing proposed roadway improvements for the MTP beyond traditional measures of effectiveness**
  - Aligned with CAMPO's strategic goals, national best practices, and CAMPO's constituent priorities
  - Comprehensive, flexible, and data-supported

Why are we here

Current Project Prioritization

Payback Period Metric

- *Project Cost ($) / Project Annual Benefit ($)*
- Utilizing forecast of roadway travel time savings

Ideal Project Prioritization Incorporates Considerations for:

Local Planning

Equity

Safety

Multi-modal

Environmental

Freight

Project Tasks and Schedule

Updated Project Prioritization Process

Task	Nov	Dec	Jan 2023	Feb	Mar	April	May
Project Management							
Data Assessment & Peer Research							
Criteria and Methodology Development							
Project Scoring Resources						★	
Strategic Roadmap for Project Prioritization							

Task 2: Data Assessment, Peer Research Review and Analysis for Applicability

Example Resources

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- What plans, documents, existing tools and other products influence the decision making process?
  - Current plans (MTP/CTP, Air conformity)
  - Programs and studies (hot spots, area / corridor studies)
  - Travel Demand Model
  - Environmental Justice Requirements
  - Published project maps and other visualizations

STRATEGIC TRANSPORTATION INVESTMENTS
Smart decisions to keep North Carolina moving.

Discovery Calls for Data Collection and Assessment

Series of Conversations with Subject Matter Experts from CAMPO and NCDOT

Requests to share data including GIS files for planned project locations and descriptions, historic crash locations by severity, pavement conditions, build/no-build TDM outputs, SPOT outputs, etc.

Additional topics covered during calls:

- Transit and bike/ped planning data
- CMAQ data
- Environmental justice data
- Economic/land use data
- Non-NBI bridge data
- INRIX or other travel time data
- Freight network data

Task 3: Criteria and Methodology Development and Documentation

Prioritization Criteria Development

Criteria and Methodology Development

What makes for a 'Good' Criteria Set?

- Aligned with planning goals and objectives
- Measurable with regularly available data
- Representative of all project types and geographies
- Differentiating to produce a clear ranking
- Focused on impacts to key performance metrics
- Intuitive to any audience and simple to explain

Draft Criteria

2050 MTP Goals and Objectives

Connect people and places	➢ **Access to Opportunity** - People residing within [x] minutes travel time of job and/or education destinations
Promote and expand multimodal and affordable transit choices	➢ **Access to Transit –** Prioritize projects that provide the most travel time savings along transit routes ➢ **Bike Infrastructure –** Prioritize projects that include bike lanes based on need identified by current Bike Score ➢ **Pedestrian Infrastructure –** Prioritize projects that include sidewalks, crosswalks, etc. lanes based on need identified by current Walk Score
Manage congestion and system reliability	➢ **Congestion –** Prioritize projects which will have the most impact on improving peak period travel times ➢ **Reliability –** Prioritize projects which will have the most impact on improving travel time reliability multiplied by VMT
Stimulate inclusive economic vitality and opportunity	➢ **Truck Congestion –** Prioritize projects which will have the most impact on improving truck travel times [bonus for projects on strategic freight corridors] ➢ **Truck Reliability –** Prioritize projects which will have the most impact on improving truck travel time reliability multiplied by truck VMT [bonus for projects on strategic freight corridors] ➢ **Density –** Prioritize projects that will improve walking, biking, transit in locations with a close ratio of jobs to residents within project's census block group [or TAZ] ➢ **Relative benefit cost ratio** – Prioritize similar projects by total benefits compared to cost

Draft Criteria

Ensure equity and participation	➢ ***Exploratory; may include*** *– Prioritize projects with benefits for communities of concern, plan alignment, documented community support or engagement, and/or reunification of communities bifurcated by transportation infrastructure.*
Improve infrastructure condition and resilience	➢ **Functionally obsolete bridges –** Prioritize roadway projects that also improve more functionally obsolete bridge deck area
Protect the human and natural environment and minimize climate change	➢ **Change in greenhouse gas (GHG) emissions –** Prioritize projects with greater reductions in GHG emissions
Promote safety, health and well-being	➢ **Safety –** Prioritize projects projected to have the greatest impact on reducing fatal and serious injury crashes

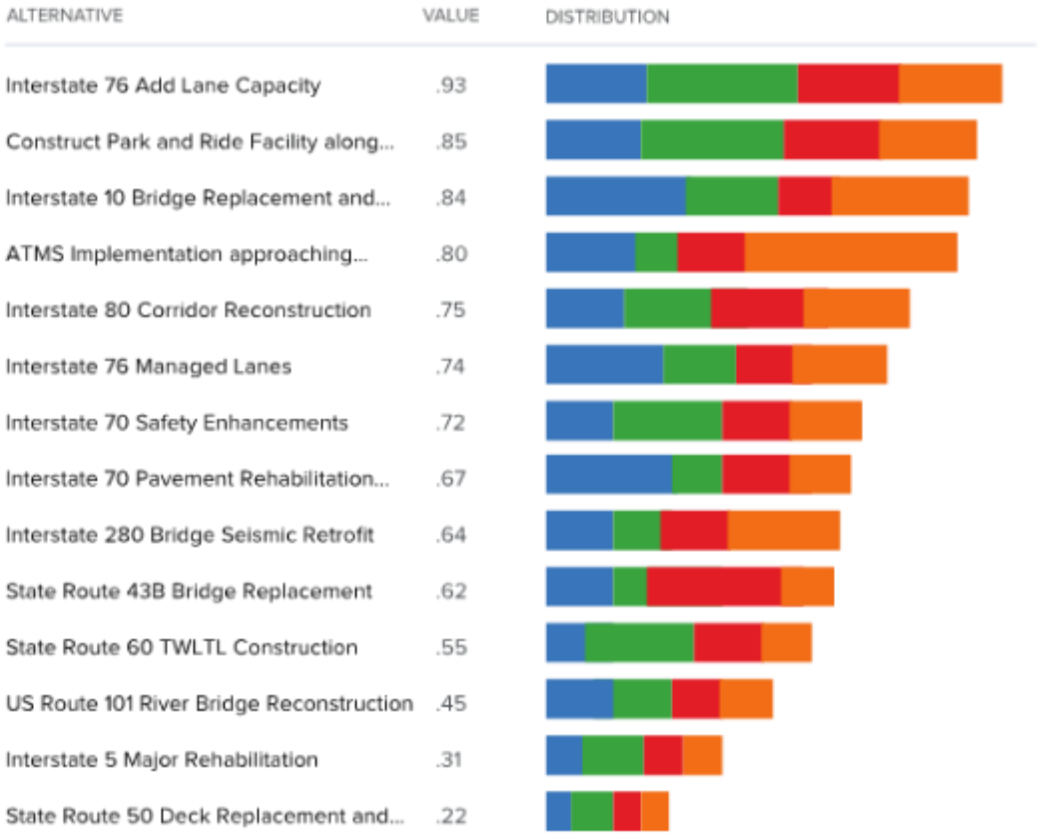
Task 4: Project Scoring Resources

Scoring Process

After criteria have been finalized, needs/existing conditions and project impact scores will be calculated. Then, scores will be combined using the following process:

1. Normalization
2. Data-Informed Score Calculation
3. Weighting

Validate and Explore What Ifs?



Validate rankings are reflective of agency values

Confirm equitable distribution by geography and project type

Explore performance implications of alternative policies

Task 5: Strategic Roadmap for Project Prioritization Planning Processes

Road Map for Project Prioritization Processes

The roadmap will help define a process for continued progress for performance-based prioritization and evaluating the process.

Elements may include:

- Outline how prioritization process fits into the MTP development process
- Review tools and resources to help manage impact-oriented project prioritization process
- Suggest opportunities to build out capabilities for project prioritization (planning contracts, federal grants, etc.)
- Outline methods to determine baseline weights for each criteria
- Demonstrate how scores can inform a fiscally constrained program
- What can CAMPO do now with the data and resources they have (short term)?
- What can CAMPO do with moderate change (medium term) and what are longer-term goals?

Next Steps

- Finalize development of Prioritization Tool w/ High Street (June 2023)
- CAMPO MTP/TIP Steering Committee Meetings (Fall 2023 - criteria & weights)
- TCC/Ex Board Recommendations on Development of 2055 MTP (2024)

Thank You

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HIGH STREET

6.4 MTP Roadway Prioritization

Requested Action:

Receive as information.

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6.5 2024-2033 TIP/STIP Update

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Draft 2024-2033 STIP Development Method

- Refreshed 1,000+ estimates in the 2020-2029 STIP, resulting in substantial cost increases
- A combined $8B overprogrammed in the 10-year STIP
- BOT approved process:
  - Stop P6.0, No Local Input Points
  - Develop 2024-2033 STIP using existing projects in 2020-2029 STIP

Existing 2020-2029
STIP Funded projects

No new P6.0 evaluated projects

Project Pool

Draft 2024-2033 STIP

Projects to be reprioritized in P7.0

6.5 2024-2033 TIP/STIP Update

- April 2023 NCDOT released an updated 2024-2033 STIP
- New version includes “project swaps” from across North Carolina
- Additional Project Schedule Changes
  - Project Development issues
  - Lower Revenues
  - Additional Project Cost increases

- Resulting in several project delays and some uncommitted projects

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April 2023 – Present to BOT Proposed Final 2024-2033 STIP

April 2022
Draft 2024 - 2033 STIP released

July 2022
SL 2022-74; Additional revenue appropriated

August 2022
Revised Draft 2024-2033 STIP released
Includes new revenues

June 2023
Final 2024-2033 STIP to be adopted by BOT

Sept 2023
Final 2024-2027 STIP to be approved by FHWA

Final STIP Funding Availability

Several factors affected funding availability for the Final STIP:

- Federal and State Revenue forecasts were lowered

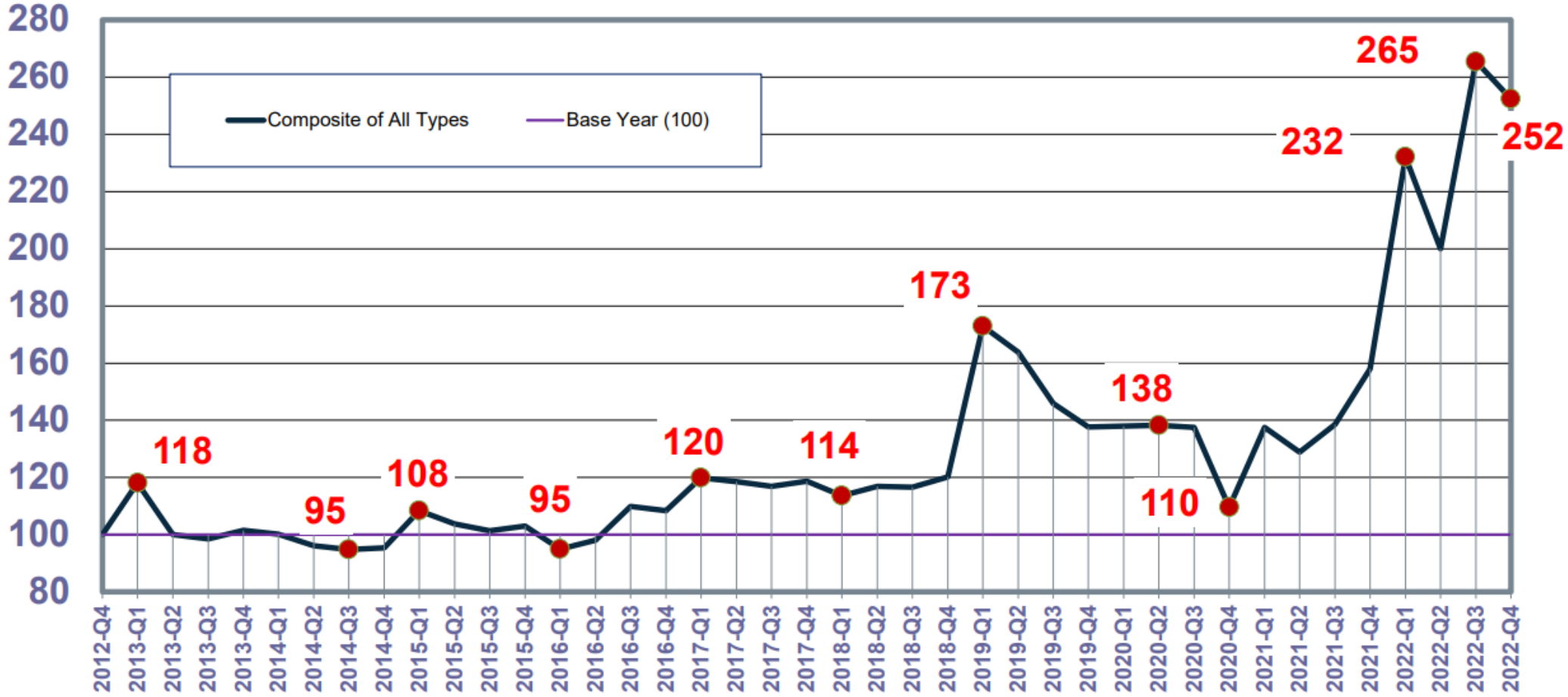
Difference between Final & Draft STIP		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Federal	$	(33.20)	(34.60)	(61.00)	(61.00)	(61.00)	(61.00)	(61.00)	(61.00)	(61.00)	(61.00)	**(555.80)**
	%	-2.2%	-2.2%	-3.8%	-3.8%	-3.8%	-3.8%	-3.8%	-3.8%	-3.8%	-3.8%	**-3.5%**
State	$	33.00	64.10	20.10	(26.60)	43.85	31.31	(17.68)	(77.82)	(141.68)	(186.97)	**(258.39)**
	%	1.5%	2.7%	0.8%	-1.0%	1.7%	1.2%	-0.6%	-2.7%	-4.8%	-6.1%	**-1.0%**

- Contract awards for projects continue to come in higher than STIP estimates
- More mature estimates regularly higher than preliminary estimates
- Covering overdrafts on existing active projects
- Several new economic development projects were programmed in some Divisions (which hits their Division Needs bucket)
- Updated variance calculation ("lookback law") incorporated FY 2022 authorizations

ganization

Rolling Construction Cost Index

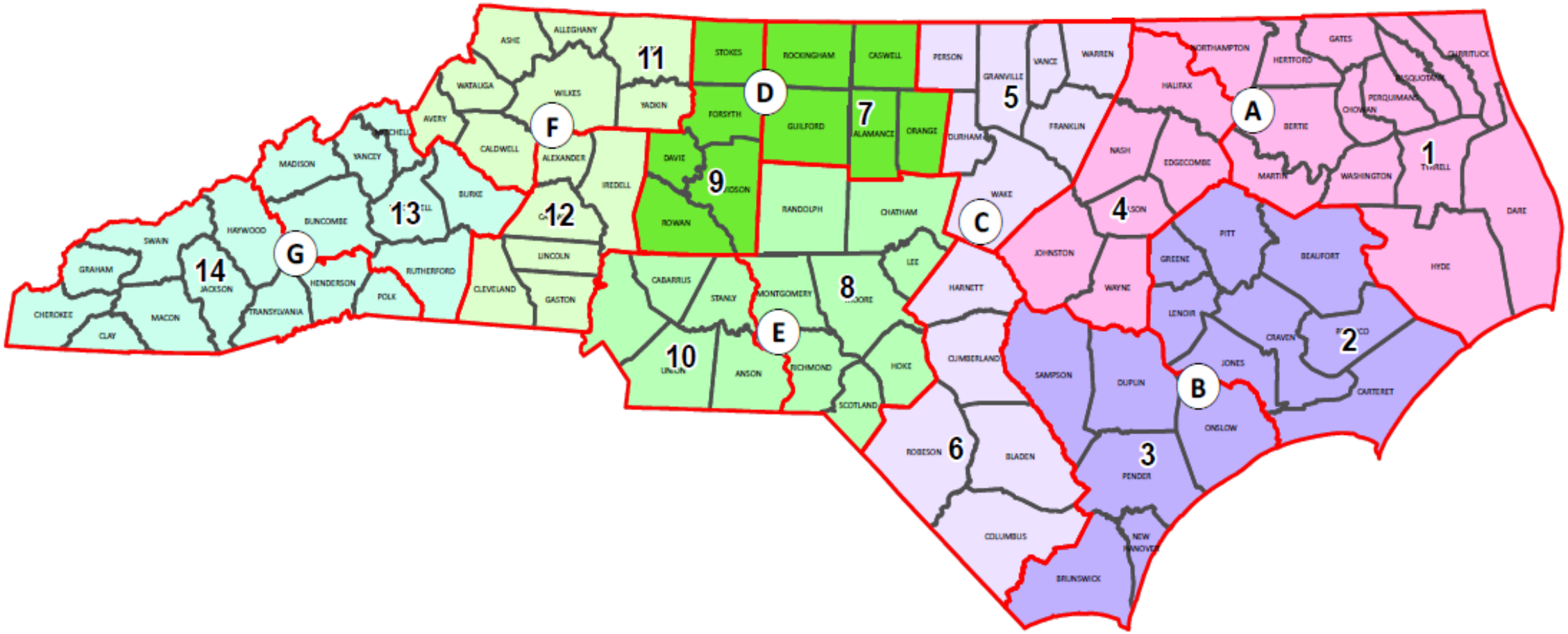
(2012 is base year, purple line equals 100)



2024-2033 STIP Funding Availability Comparison

	Draft 2024-2033 STIP (August 2022)	Final 2024-2033 STIP (March 2023)
Available Funding for Programming	$37.0B*	$36.3B*
Amount Reserved for Inflation	$4.2B	$4.1B
Amount Available for Programming Projects	$32.8B	$32.2B

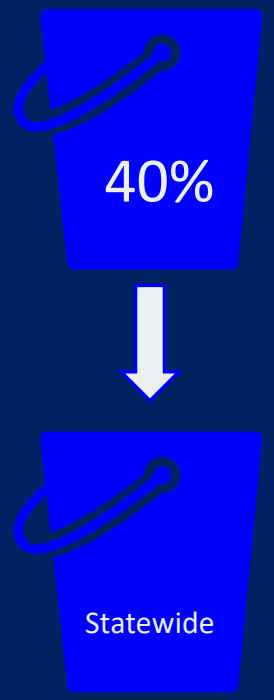
* Includes latest state consensus revenue forecast, including sales tax revenue + federal funds



Defined in STI Legislation

STIP Funding Distribution

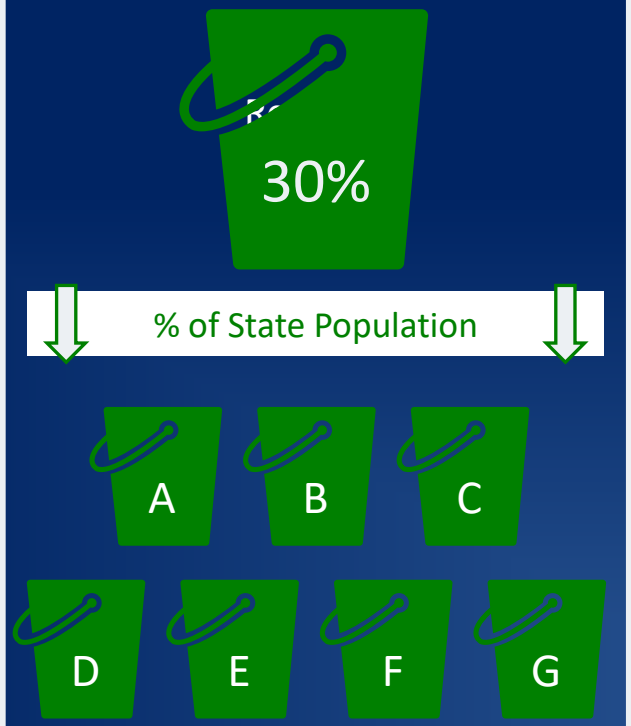
Statewide Mobility



Programmed First

Interstate Maintenance
Bridge Replacement
Bridge Rehabilitation
Highway Safety

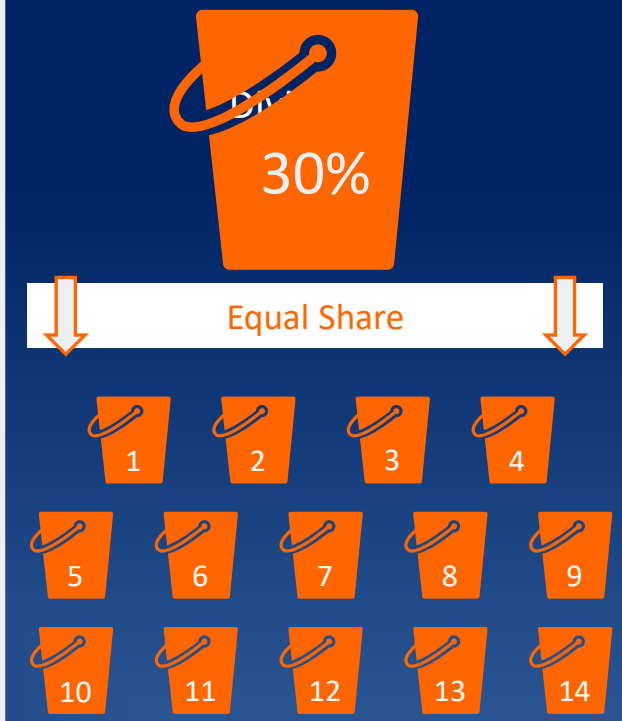
Regional Impact



Programmed First

Bridge Replacement
Bridge Rehabilitation
Highway Safety

Division Needs



Programmed First

Bridge Replacement
Bridge Rehabilitation
Highway Safety
MPO Direct Attributable
Transportation Alternatives
Highway-Rail Crossing
Economic Development

Defined in STI Legislation

Annual Funding Balance

+/-10% Variance Test

Year	2016	2017	2018	2019	2020	Total
Statewide						Test
Regional						Test
Division						Test
Annual Budgets	Test	Test	Test	Test	Test	Test

- Many budget tests included in State and Federal Law
- Compare total programmed amount to anticipated annual budget for each year
- For every five year period, compare programmed amounts to budget targets set by law in the Statewide, Regional and Division categories

Now committed as a Result of Project Swaps

ROUTE/CITY	DESCRIPTION	MODE	DIVISION(S)	PROJECT ID	RIGHT-OF-WAY SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	UTILITIES SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	CONSTRUCTION SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)
NORTH CAROLINA RAILROAD / NORFOLK SOUTHERN H LINE	SR 1655 (TRINITY ROAD) IN CARY. CONSTRUCT GRADE SEPARATION AND CLOSE CROSSING 630657S.	RAIL	5	P-5734	2027	2027	2029
NORTH CAROLINA RAILROAD; NORFOLK SOUTHERN H LINE;	BERYL ROAD CROSSING IN RALEIGH. EXTEND BERYL ROAD TO ROYAL AVENUE, AND CLOSE CROSSING 630647L.	RAIL	5	P-5736	2028	2028	2029
VARIOUS	TRIANGLE TOWN CENTER. CONSTRUCT TRANSIT CENTER AND PARK-AND-RIDE FACILITY.	PUBLIC TRANSIT	5	TD-5307	2027	2027	2028
US 401	NC 55 / NC 42 IN FUQUAY-VARINA. IMPROVE US 401 INTERSECTION WITH NC 55 / NC 42. PROJECT WILL INCLUDE IMPROVEMENTS TO NC 55 INTERSECTION WITH NC 42, AND CONSTRUCTION OF CONNECTOR FROM NC 55 TO SR 5056 (JUDD PARKWAY).	HIGHWAY	5	U-5751	2028	2028	2031
VARIOUS	APEX TOWNWIDE SIGNAL SYSTEM. UPGRADE EXISTING INFRASTRUCTURE AND INSTALL NEW FIBER, CONTROLLERS, SIGNALS, AND OTHER EQUIPMENT AS NECESSARY.	HIGHWAY	5	U-6117	2027	2027	2028
VARIOUS	RALEIGH CITYWIDE SIGNAL SYSTEM. UPGRADE SOFTWARE FOR EXISTING ITS SYSTEM.	HIGHWAY	5	U-6119	2027	2027	2028

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Projects Delayed by 1 Year

ROUTE/CITY	DESCRIPTION	MODE	DIVISION(S)	PROJECT ID	RIGHT-OF-WAY SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	UTILITIES SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	CONSTRUCTION SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)
CSX S LINE	SR 2108 (MILLBROOK ROAD) IN RALEIGH. CONSTRUCT GRADE SEPARATION AND CLOSE CROSSING 630605A.	RAIL	5	P-5737	UNDERWAY	2022	2025
I-440 / US 1	SR 2000 (WAKE FOREST ROAD) IN RALEIGH. INTERCHANGE IMPROVEMENTS.	HIGHWAY	5	I-5708	UNDERWAY	UNDERWAY	2026
US 1	I-540 TO NORTH OF SR 2006 (DURANT ROAD) IN RALEIGH.	HIGHWAY	5	U-5307A	2026	2026	2026
US 70 (GLENWOOD AVENUE)	WEST OF SR 3067 (T.W. ALEXANDER DRIVE) TO I-540 IN RALEIGH. UPGRADE ROADWAY TO IMPROVE	HIGHWAY	5	U-5518	2026	2026	2026
I-40 / US 64	I-440 / US 1 / US 64 TO SR 1370 (LAKE WHEELER ROAD) IN RALEIGH. ADD LANES.	HIGHWAY	5	I-5701	2027	2027	2027
I-40	I-440 / US 1 / US 64 INTERCHANGE IN RALEIGH. RECONSTRUCT INTERCHANGE.	HIGHWAY	5	I-5703	2027	2027	2027
US 64	WEST OF SR 1308 (LAURA DUNCAN ROAD) TO US 1 IN APEX AND CARY. CORRIDOR UPGRADE AND IMPROVEMENTS.	HIGHWAY	5	U-5301	2027	2027	2030
I-40	SR 1002 (AVIATION PARKWAY) TO SR 1652 (HARRISON AVENUE) IN CARY. CONSTRUCT AUXILIARY	HIGHWAY	5	I-5966	2028	2028	2031

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Projects Delayed by 3 Years

ROUTE/CITY	DESCRIPTION	MODE	DIVISION(S)	PROJECT ID	RIGHT-OF-WAY SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	UTILITIES SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	CONSTRUCTION SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)
SR 1012 (WESTERN BOULEVARD)	CONSTRUCT BICYCLE / PEDESTRIAN TUNNEL IMMEDIATELY WEST OF SR 1321 (AVENT FERRY ROAD) IN RALEIGH.	BIKE/PED	5	EB-5718	N/A	N/A	2028
VARIOUS	TOWN OF MORRISVILLE. CONSTRUCT TOWNWIDE ITS / SIGNAL SYSTEM.	HIGHWAY	5	U-5967	N/A	2028	2029

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Projects now Uncommitted (will recompete in P7)

ROUTE/CITY	DESCRIPTION	MODE	DIVISION(S)	PROJECT ID	RIGHT-OF-WAY SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	UTILITIES SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)	CONSTRUCTION SCHEDULE FINAL 2024-2033 STIP (MARCH 2023)
NC 55 (WILLIAMS STREET)	US 1 TO NORTH OF SR 1160 (OLIVE CHAPEL ROAD). CONVERT EXISTING MULTILANES TO MEDIAN DIVIDED SECTION AND WIDEN REMAINING 2-LANE SECTIONS	HIGHWAY	5	U-2901B	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY
US 1	NORTH OF SR 2006 (DURANT ROAD) IN RALEIGH TO NORTH OF SR 2045 (BURLINGTON MILLS ROAD) IN WAKE FOREST.	HIGHWAY	5	U-5307B	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY
US 1	NORTH OF SR 2045 (BURLINGTON MILLS ROAD) TO SOUTH OF NC 98 BUSINESS IN WAKE FOREST.	HIGHWAY	5	U-5307C	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY
US 70 / NC 50	SR 2026 (HAMMOND ROAD) / SR 2812 (TIMBER DRIVE) IN GARNER. CONVERT AT-GRADE INTERSECTION TO INTERCHANGE.	HIGHWAY	5	U-5744	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY
SR 1010 (TEN-TEN ROAD)	APEX PEAKWAY IN APEX TO SR 1300 (KILDARE FARM ROAD) IN CARY. WIDEN TO MULTILANES.	HIGHWAY	5	U-5825	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY
NEW ROUTE	SR 1613 (MCCRIMMON PARKWAY) TO NC 540 IN MORRISVILLE. CONSTRUCT MULTILANE FACILITY ON NEW LOCATION.	HIGHWAY	5	U-5966	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY	FUNDED FOR PRELIMINARY ENGINEERING ONLY

*CAMPO has been informed by NCDOT that U-2901B will remain committed

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6.5 Draft 2024-2033 TIP/STIP Update

Schedule & Next Steps	
Present 2024-2033 TIP, 2050 MTP Amendment & AQ CDR	June 2023
Public Review & Comment	June – Aug 2023
TCC / Public Hearing / Board Action	August 2023

Requested Action:

Receive as information

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7. Informational Items: Budget

7.1 Operating Budget – FY 2023

7.2 Member Shares - FY 2023

Requested Action:
Receive as information.

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8.1 Informational Item: Project Updates

Studies:

- Project Prioritization Methodology
- Southeast Area Study Update
- U.S. 401 Corridor Study

Other Updates:

- Wake Transit/TPAC Updates
- Mobility Coordination Committee
- Safe Routes to School (SRTS)
- Non-Motorized Volume Data Program
- Triangle Transportation Choices (TDM Program)
- NCDOT Highway Project U-2719
- NC 540 Bonus Allocation Projects

8.2 Informational Item: Public Engagement Updates

Requested Action:

Receive as information.

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9. Informational Item: Staff Reports

- MPO Executive Director
- TCC Chair
- NCDOT Transportation Planning Division
- NCDOT Division 4
- NCDOT Division 5
- NCDOT Division 6
- NCDOT Rail Division
- NC Turnpike Authority
- NCDOT Integrated Mobility Division
- Executive Board Members

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Upcoming Events

Date	Event
May 4 10:00 a.m.	Technical Coordinating Committee Meeting
May 17 4:00 p.m.	Executive Board Meeting
June 1 10:00 a.m.	Technical Coordinating Committee Meeting
June 21 4:00 p.m.	Executive Board Meeting