

**BURLINGTON-GRAHAM METROPOLITAN PLANNING ORGANIZATION
TECHNICAL COORDINATING COMMITTEE MEETING**

TUESDAY AUGUST 17, 2021 9AM

The meeting will be held remotely via Microsoft Teams

Any member of the general public who wishes to make public comment should send an email to wmallette@burlingtonnc.gov or (336) 513-5418 by Friday, August 13, 2021, 3:00 p.m. to receive the meeting login information or to have their comments read during the public comment portion of the meeting.

AGENDA

1) Call to Order & Determination of Quorum Chairman

- Welcome and Introductions
- Changes to Agenda / Add On Items
- Speakers from the Floor – 3 minutes per speaker
- Approval of May 18 and June 15 TCC meeting minutes

2) SPOT 6.0 Schedule Delay Jason B. Schronce, PE , SPOT Office

INFORMATION: NCDOT recently announced the postponement of the next STIP (2024 – 2033) due to the increased costs of existing projects, stagnant revenues, and recent cost estimates of P6.0 project submittals. NCDOT updated over 450 project cost estimates and determined that the current STIP is over budget by \$5 - \$7 billion dollars. It was also determined that the SPOT construction estimates were too low for P3 - P5 projects. The concern is the ability to add new projects to the existing STIP due to increased project costs.

State law requires the STIP to be an accurate reflection of what will be built and fiscally constrained. As a result of project cost increases, NCDOT will have to adjust the construction schedule or eliminate projects from the STIP to when funds become available. The SPOT Office emphasized that STIP revenue forecasts and P6.0 impacts are not due to fiscal/cash flow issues. Jason Schronce, SPOT Office Manager, will provide a brief update and respond to questions.

RECOMMENDATION/ACTION: 1) Receive information and discuss.

3) NC Moves 2050 Resiliency Element Nastasha Earle-Young

INFORMATION: NCDOT now requires MPOs to include a discussion of resiliency planning in their transportation planning documents as severe environmental hazards and weather events pose a threat to mobility and accessibility. Studies have shown that flooding poses safety risks and causes travel time delays. NCDOT staff will also discuss potential funding to assist communities to conduct risk assessments.

RECOMMENDATION/ACTION: 1) Receive information and discuss.

4) NCDOT Draft CTP Update Daryl Vreeland, AICP

INFORMATION: NCDOT requested the BGMPO review of draft CTP maps and project lists. NCDOT staff will present an update of the data collection efforts and revised project schedule.

RECOMMENDATION/ACTION: 1) Receive information and discuss.

5) **FY 2020-2025 TIP Amendments** **Blake Cashmore**

INFORMATION: The BGMPO Transportation Improvement Program (TIP) consists of projects included in the NCDOT 2020 – 2029 State Transportation Improvement Program (STIP). The BGMPO TIP needs amendment to align with recent STIP project schedule changes or programming.

RECOMMENDATION/ACTION: 1) Receive information and discuss; 2) Recommend TAC approval of the July and August 2021 TIP amendments by resolution.

6) **FHWA Update** **Suzette Morales**

7) **NCDOT TPD Update** **Daryl Vreeland**

8) **NCDOT Division Engineer Report** **Stephen Robinson**

9) **Other Business** **Wannetta Mallette**

- MPO staff reports and updates
- Reports and questions from TCC Members
- **Next Meeting Scheduled October 19, 2021**

ACCESS TO INFORMATION: ALL MPO DOCUMENTS AND DATA CAN BE PROVIDED IN ALTERNATIVE FORMAT UPON REQUEST

PLEASE CONTACT THE MPO OFFICE FOR ADDITIONAL ASSISTANCE AND INFORMATION 336-513-5418

ACCESO A INFORMACION: TODOS LOS DOCUMENTOS Y DATOS DE MPO SE PUEDEN PROPORCIONAR EN FORMATOS ALTERNOS A PETICION

POR FAVOR COMUNIQUESE CON LA OFICINA DE MPO PARA INFORMACION E ASISTENCIA ADICIONAL 336-513-5418

It is the policy of the Burlington Graham Metropolitan Planning Organization to ensure that no person shall, on the ground of race, color, sex, age, national origin, or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity as provided by Title VI of the Civil Rights Act of 1964, the Civil Rights

Restoration Act of 1987, and any other related non-discrimination Civil Rights laws and authorities.

MINUTES

**BURLINGTON - GRAHAM METROPOLIAN PLANNING ORGANIZATION
TECHNICAL COORDINATING COMMITTEE
TUESDAY, MAY 18, 2021
VIA MICROSOFT TEAMS
9 AM**

MEMBERS PRESENT

Nishith Trivedi, Orange County (Chair)
Mike Nunn, Burlington
Pam DeSoto, Elon
Nolan Kirkman, Burlington
Ben York, Alamance
Tonya Caddle, Alamance County
Cy Stober, Mebane
Preston Mitchell, Mebane
Peter Murphy, ACTA
John Andoh, Link Transit
Mark Kirstner, PART
Dan Danieleley, Regional Airport
Bonnie Guo, GoTriangle
Ashley Ownbey, Mebane

BGMPO STAFF PRESENT

Wannetta Mallette
Blake Cashmore

NCDOT STAFF PRESENT

Wright Archer, NCDOT Division 7
Tamara Njegovan, NCDOT Division 7
Stephen Robinson, NCDOT Division 7
Daryl Vreeland, TPD
Andy Bailey, TPD
Richard Virgo, TPD

FHWA STAFF PRESENT

Suzette Morales

Call to Order

Chair Nish Trivedi called the May 18, 2021 TCC meeting to order at 9:07 a.m and welcomed all members and guests. Mr. Peter Murphy, Mr. Wright Archer and Mr. John Andoh were introduced as new members of the TCC. No changes were made to the agenda. Chair Trivedi then asked if there were any speakers from the floor. There were no speakers from the floor and no public comments were made.

Chair Trivedi presented the draft agenda for adoption and requested a motion to approve the agenda. Ms. Pam DeSoto made the motion to approve the agenda and Mr. Cy Stober

seconded the motion. The motion passed by unanimous vote. Ms. Wannetta Mallette conducted the membership roll call and established a quorum.

Approval of March 16, 2021 Meeting Minutes

Chair Trivedi asked for any comments or questions on the March 16, 2021 TCC meeting minutes. No comments or questions were made. Chair Trivedi requested a motion to approve the March 16, 2021 TCC meeting minutes. Mr. Mike Nunn made the motion to approve the meeting minutes and Ms. Pam DeSoto seconded the motion. The motion passed by unanimous voice vote.

Haggard Avenue Corridor Plan - Phase I

Ms. Pam DeSoto presented Phase I of the Haggard Avenue Corridor Plan. Haggard Avenue was identified as a priority area in the Town of Elon's Comprehensive Plan in 2019. The project was funded by a \$40,000 Special Studies grant through the Burlington-Graham MPO Unified Planning Work Program (UPWP) and a \$10,000 local match by the Town of Elon. The town selected SEPI, Incorporated (SEPI) to conduct the study. Ms. DeSoto identified the need for the Haggard Avenue Phase I Study and described the project study area and purpose. Elon conducted the study to develop an improved roadway design in hopes of reducing the number of pedestrian, bicycle and vehicle conflicts. SEPI identified two character areas – Campus Scale and Suburban Highway – which influenced plan recommendations and schematic designs. The schematic (conceptual) design recommendations included a median for most of the corridor, realignment of N. Oak Avenue, and the addition of roundabouts where appropriate. Ms. DeSoto also highlighted a potential framework for a Corridor Overlay District created by SEPI that would guide development along Haggard Avenue. Ms. DeSoto closed her presentation stating the town's Board approved the Phase I study and proceeding with the development of the Phase II and III studies.

Mr. Stober asked if SEPI evaluated the safety performance of a roundabout vs. a traditional intersection. Ms. DeSoto responded no, but an evaluation can be considered during the next study phases. Mr. Stober then asked if SEPI conducted an analysis of existing setbacks and their impact on pedestrian and bike safety along the corridor. Ms. DeSoto said SEPI compared existing setbacks against Complete Street recommendations. Ms. Tonya Caddle expressed support and the timeliness of the project in response to the increase in traffic.

Lowe's Boulevard Corridor Plan

Mr. Stober provided an overview of the Lowe's Boulevard Corridor Plan and introduced Ms. Ashley Ownbey as the Project Manager. Ms. Ownbey said the study was conducted by Ramey Kemp & Associates. The extension of Lowe's Boulevard is identified in both the Mebane Comprehensive Transportation Plan and the BGMPO 2045 Metropolitan

Transportation Plan. Ms. Ownbey described the project study area and purpose, which is to reduce congestion—particularly at the Trollingwood-Hawfields Road and NC 119 intersection. Ms. Ownbey said the City of Mebane expects considerable growth and development pressure within the project area as NC Commerce Park continues to expand. Public engagement began in December 2020 and included mailings to owners and tenants, announcements at city meetings, and social media posts. All public engagement efforts were completed in accordance with Title VI guidance. Conceptual designs were developed and presented to the public and planning board. In early March, the Mebane City Council unanimously approved a phased version of Concept 1A. Ms. Ownbey described the concept features, which included a two-lane median-divided road connecting to Senator Ralph Scott Parkway, with a 5' sidewalk on one side and 10' multi-use path on the other. Ms. Ownbey then closed her presentation and asked for questions.

Ms. Caddle commended the City of Mebane and acknowledged these were necessary improvements. Mr. Stober stated the importance of the project corridor and identified adjacent NCDOT STIP projects. After no additional questions or comments, Ms. Mallette requested that the TCC consider adding the project to the BGMPO CTP. Chair Trivedi asked for a motion. Ms. DeSoto made the motion to add the Lowe's Boulevard Corridor Plan to the BGMPO CTP and Ms. Caddle seconded the motion. The motion passed by unanimous voice vote.

NCDOT Draft CTP Maps and Project Lists

A joint presentation was made by Ms. Mallette and NCDOT TPD staff members. Ms. Mallette said draft CTP maps and project lists were emailed to the TCC and members were requested to review their projects against NCDOT's Complete Streets guidance and provide comments by June 30th. Mr. Daryl Vreeland provided an overview of the BGMPO CTP adoption schedule. The draft CTP will be released for public comment at the August TCC meeting with a tentative adoption date of October 2021.

Mr. Stober questioned the inclusion of old projects. Mr. Vreeland said this is the time to remove unwanted projects so that the maps can be updated. NCDOT wants to ensure the CTP project maps and corresponding spreadsheets reflect local political will and interests. Chair Trivedi thanked NCDOT for their efforts and asked if he could forward the maps to DCHC MPO. Mr. Andy Bailey responded yes and added that the BGMPO CTP map and project list templates follow the recently adopted design standards. Mr. Mark Kirstner voiced his preference for the previous map design, particularly the dashed line signifying proposed projects. He also recommended NCDOT consider identifying proposed headways in CTPs.

Agency Reports and Updates

FHWA: No updates.

NCDOT-TPD: Update included in agenda packets.

NCDOT-Division 7: Mr. Stephen Robinson presented the May Division Engineer Report and highlighted that work has begun on Mebane Oaks Road. Utility relocations and temporary signal installation will occur over the next few weeks. Mr. Robinson also stated that the bridge replacement on Huffman Mill Road south of I-40 is underway. Mr. Wright Archer added that NCDOT is aware of potential traffic impacts from construction on Mebane Oaks Road and that they are preparing mitigation strategies. Mr. Stober asked about the status of the Mebane Oaks @ Old Hillsborough Road project. Mr. Robinson responded that the project was pending utility relocations and he would contact the Project Manager to determine the status and respond to Mr. Stober.

BGMPO:

Highway Safety Plan - The BGMPO and NCDOT are still revising the Highway Safety Plan Scope of Work. The project start is anticipated for August 2021.

P6.0 - Staff is completing P6.0 data review that includes Complete Street and Purpose and Needs forms. She requested TCC members review their Complete Streets forms included with their submittal packages and forward the BGMPO any revisions. SPOT 6.0 scores will be released late summer or early fall.

TIP amendments - In accordance with the Public Involvement Plan, the BGMPO will approve TIP amendments as-needed by virtual meetings when approval is needed during non-meeting months.

CommunityViz - Ms. Mallette encouraged the TCC to participate in the upcoming series of CommunityViz workshops hosted by PART. Ms. Mallette recommended the BGMPO partner with PART on regional land use and transportation issues.

NC House Bill 511 - Ms. Mallette said Mr. Nathan Page requested TCC members support NC House Bill 511 that would require NCDOT to fully administer local bicycle and pedestrian projects.

Adjournment

There being no further business, Chair Trivedi adjourned the meeting at 11:15 a.m. The next TCC meeting was scheduled on **August 17, 2021.**

MINUTES

**BURLINGTON-GRAHAM URBAN AREA
TECHNICAL COORDINATING COMMITTEE
TUESDAY, JUNE 15, 2021
VIA MICROSOFT TEAMS
9 AM**

MEMBERS PRESENT

Nishith Trivedi, Orange County (Chair)
Mike Nunn, Burlington (Vice Chair)
Nolan Kirkman, Burlington
Ben York, Alamance
Tonya Caddle, Alamance County
Cy Stober, Mebane
Peter Murphy, ACTA
John Andoh, Link Transit
Mark Kirstner, PART
Scott Rhine, PART
Bonnie Guo, GoTriangle

NCDOT STAFF

Tamara Njegovan, NCDOT Division 7
Stephen Robinson, NCDOT Division 7
Andy Bailey, NCDOT-TPD

FHWA STAFF

Suzette Morales

BGMPO STAFF PRESENT

Wannetta Mallette
Blake Cashmore

Call to Order

Chair Nish Trivedi called the June 15, 2021 TCC meeting to order at 9:07 a.m. and welcomed all members and guests. Ms. Wannetta Mallette conducted the membership roll call and established a quorum. No changes were made to the agenda and no speakers from the floor were present. Ms. Mallette said the May and June meeting minutes will be forwarded with the August agenda packet.

FFY21 American Rescue Plan Act and FFY22 Section 5307 Suballocation

Ms. Mallette provided an overview of the American Rescue Plan (ARP) Act and Section 5307 formula funding for regional transit agency BGMPO suballocations. She said NCDOT and the FTA approved the suballocation schedule as presented and Mr. Peter Murphy, ACTA Executive Director, voiced concerns and opposition to the Section 5307 suballocation methodology as ACTA would lose funding. Mr. Murphy preferred that the exact percentages used in the fund suballocation. Ms. Mallette responded that the MPO held meetings with representatives from the five transit agencies and separately with

ACTA and NCDOT. As a result, NCDOT recommended corrective measures for future suballocations. Ms. Mallette concluded by requesting the TCC recommend TAC approval of the BFGMPO FY 21 ARP Act and FY22 Section 5307 suballocations.

Mr. Murphy raised his opposition to the vote. Mr. Nunn responded that the Section 5307 suballocation between NCDOT, transit agencies, and the MPO was developed years prior to Mr. Murphy's arrival. Chair Trivedi added that the formula fund regional allocations were developed by state and federal agencies. This was confirmed by Mr. Nunn and Mr. Scott Rhine. Ms. Mallette highlighted guidance from the recent meeting with NCDOT, which included recommendations to use exact figures and provide additional time for agency objections. Mr. Nunn voiced his support of the MPO implementing NCDOT's recommendations for future suballocations. There being no further discussion, Chair Trivedi called the vote to approve the BGMPO ARP Act and Section 5307 suballocations as presented. Mr. Mike Nunn made a motion to approve, seconded by Mr. John Andoh. The motion carried with one no vote by Mr. Murphy.

FY 2020 – 2025 TIP Amendments

Ms. Mallette provided an overview of recent TIP amendments. The amended projects include the addition of two CMAQ projects and scope and schedule changes to W-5807B, a Boone Station Road pedestrian safety improvement project. Ms. Mallette then requested TCC approval of the TIP amendments. Mr. Cy Stober asked about the programming of CMAQ funds. Ms. Mallette responded that the CMAQ funds are for existing statewide STIP projects, not necessarily projects within the region. Chair Trivedi asked if CMAQ projects were included with congestion management projects. Ms. Mallette responded yes. Mr. Stephen Robinson made a motion to approve, seconded by Mr. Nunn. The motion passed by unanimous voice vote.

Agency Reports and Updates

FHWA: No updates.

NCDOT-TPD: Mr. Andy Bailey announced that NCDOT underwent a structural reorganization. The TPD staff will now report to Chief Engineer Mr. Ron Keeter, Division of Highways. The Division of Planning and Programming will be led by Mr. Joey Hopkins and now includes STIP, feasibility studies, Central Corridor Units and SPOT office operations.

NCDOT-Division 7: Mr. Robinson provided the Division 7 update. Mr. Cy Stober asked about the Old Hillsborough Rd @ Mebane Oaks Road intersection project. Mr. Robinson agreed to provide Mr. Stober the current project schedule.

BGMPO: Ms. Mallette reminded TCC members of the deadline to forward CTP comments to Mr. Daryl Vreeland.

Adjournment

There being no further business, Chair Trivedi adjourned the meeting at 10:31 a.m. The next meeting was scheduled on **August 17, 2021**.



NORTH CAROLINA
Department of Transportation



Transportation Resiliency

Background

Extreme Events

Hurricanes, prolonged flooding, increased maintenance/asset repairs

- 2018 Florence
- 2016 Matthew
- Other isolated, intense storms

2015-
Present

Federal Response

- FAST Act
- FHWA Emergency Relief Funds
- Vulnerability and Adaptation
- Resiliency considerations in long range plans
- Toolkits, training, peer exchanges (e.g., RAMCAPs Colorado procedure document)
- **USACE Flood Risk Feasibility Studies on Tar Pamlico, Neuse, and Lumber River Basins**

State Response

- **EO80**
- NC Climate Change Interagency Council
- ZEV Plan
- NC Climate Risk and Resiliency Plan
- NC Moves 2050
- Ongoing Research, Studies

Last
Decade

2018-
Present

NCDOT's Agency Resiliency Strategy Report

- **Executive Order 80**
 - 2020 NC Climate Risk Assessment and Resilience Plan tasks us annually to prepare an Agency Resiliency Strategy Report
- **Money**
 - The cost for doing nothing is more expensive than the cost of implementing resilient solutions
 - NCDOT has already directly or indirectly benefitted from federal funding specifically for resilience projects. Future funding is likely and will favor “*shovel worthy*” projects
- **It is the Department's mission** to ensure a safe and resilient system

Session Law 2019- 251 SB 356

DISASTER RELIEF FUNDS

SECTION 1.7. In addition to any other funds appropriated during the 2019-2020 fiscal year, there is appropriated from the General Fund to the Department of Transportation the sum of thirty-six million dollars (\$36,000,000) to be used as follows:

- (1) \$30,000,000 for current and future activities related to recovery from Hurricane Dorian such as debris removal and repair of highway infrastructure damage.
- (2) \$2,000,000 for the Living Shoreline projects.
- (3) \$2,000,000 to expand the Flood Inundation Mapping Alert Network for Transportation.
- (4) \$2,000,000 for a Flood Risk and Vulnerability Assessment on the Strategic Highway Corridor System.

FIMAN-T

FIMAN Flood Inundation Mapping and Alert Network

[ABOUT](#)
[MAP](#)
[ACCOUNT](#)
[LOG OUT](#)
20

Search Gages
Gages Summary
Legend
Building Legend
Weather Radar

+

-

🏠

🗺️

🏠

🗺️

Search for location ...

Current / Scenario / SEL	Freeboard (ft)
5.5	-4.8
1.9	-2.1
1.9	-1.2
9.7	-0.6
2.6	-0.4

1 - 5 of 10 items

Showing 456 Gages

Show Startup Gages

Click a gage to view more information.

Gage Level

Gage Symbols

- Current Condition
- Forecast Peak Condition

Risk Ratings

- Normal
- Monitor
- Minor Flooding
- Moderate Flooding
- Major Flooding
- Not Risk Rated
- Out of Service

Trend

- ↑ Rising
- ↓ Falling
- ↔ Constant

Legend

CDOT Assets

- ▲ Bridges
- ▲ Road Inundation Levels

- ~ > 5 Ft
- ~ 2 - 5 Ft
- ~ 0.5 - 2 Ft
- ~ 0 - 0.5 Ft

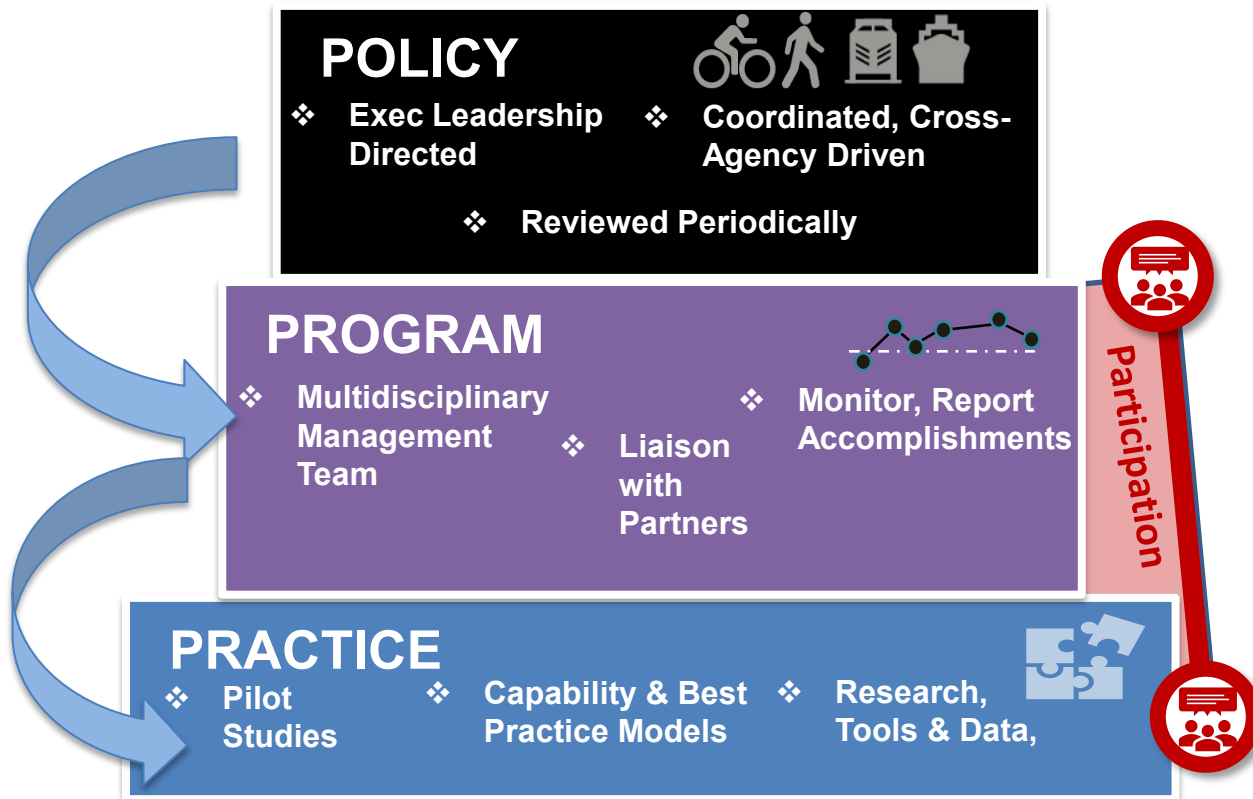
NC Moves 2050 Action

DEVELOP and Mainstream Risk / Resiliency Practices		
Action	Lead	Measures
R2 <i>Identify and prioritize multimodal transportation improvements that enhance system performance and reliability.</i> <ul style="list-style-type: none"> • Use U.S. 70 STC as a pilot project to demonstrate capabilities of FHWA sponsored tools such as Vulnerability Assessment Scoring Tool and Hazard Vulnerability Index. • Identify criticality criteria and impact of environmental stressors to multimodal infrastructure – highway, rail, air/sea/inland ports and to threatened access points. • Identify highest priority multimodal projects that make U.S. 70 more resilient and builds redundancy. Quantify asset and transportation system-based impacts to vulnerable populations along the corridor. • Recommend risk based and benefit/cost scoring calculations to incorporate into latest SPOT process. 	Transportation Planning Division <i>Kusondra King</i> kbking1@ncdot.gov	Development of the state's risk & resiliency plan (a recommended step in R1) will help identify appropriate measures. These can be paired with other required federal performances related to reliability, such as auto and truck travel time reliability on the NHS.

NC Moves 2050 Action

DEVELOP and Mainstream Risk / Resiliency Practices			
	Action	Lead	Measures
R4	<p><i>Support community-based resiliency approaches that inform NCDOT practices.</i></p> <ul style="list-style-type: none"> • Incorporate scenario-based analyses within the development of comprehensive transportation plans (CTPs) and metropolitan transportation plans (MTPs). • Streamline and integrate CTP outcomes within project development and preconstruction activities, including Integrated Project Delivery process. • Coordinate closely with MPOs and RPOs to align state and local practices within their long-range plans. Ensure local comprehensive plans inform state and local decision making. • Develop best practice approaches and facilitate peer exchange opportunities between MPO/RPO planning partners and through FHWA sponsored training. 	<p>Environmental Policy</p> <p>Colin Mellor</p> <p>cmellor@ncdot.gov</p>	<p>None recommended at this time.</p> <p>Progress for these steps is appropriate to report qualitatively. Development of the state's risk & resiliency plan (a recommended step in R1) may identify specific desired outcomes that could be measured.</p>

Strategy Vision, Goals, Objectives



Outcomes: Resiliency incorporated within each phase of transportation – *Planning* → *Maintenance*

Resiliency Strategy

Goals, Objectives

- O1:** Define the core components of a Policy Framework
- O2:** Assess the vulnerability and risk of North Carolina's multimodal transportation network.
- O3:** Identify and develop risk/resiliency efforts across the spectrum of NCDOT activities.
- O4:** Identify current and future opportunities to more closely coordinate with federal and state agencies and local planning partners

Short Term Strategies

The report outlines 17 short term strategies organized into 7 overarching categories, to be enacted over the next 12 months.

Cross-cutting	Awareness and Branding: Raise Resilience Visibility and Awareness
	Awareness and Branding: Build an Agency Resilience Brand
	Funding: Pursue Funding Opportunities
	Research Participation: Participate in National, State Research
Scoping	Develop Resilience Scoping Guidance
Planning	Conduct Multimodal Vulnerability Assessment in Strategic Transportation Corridor
	Incorporate Resilience Assessments in Long Range Plans (MTPs/CTPs)
	Incorporate Resilience within Integrated Project Delivery (IPD) Update
	AVIATION: Address Gaps in Resilience Planning and Standards
	FERRY: Address Gaps in Resilience Planning and Standards for Ferry
	FREIGHT: Address Gaps in Resilience Planning and Standards
	PORTS: Address Gaps in Resilience Planning and Standards
RAIL: Address Gaps in Resilience Planning and Standards	
Design	Incorporate Resilience into Design Guidance
Operations	Incorporate Resilience Analysis for Asset Management
Maintenance	Incorporate Resilient Infrastructure Treatments in Maintenance/Operations
Construction	Apply Adaptive Methods for Construction Processes

Short Term Strategy

STC VULNERABILITY Assessment



PLAN - Conduct Multimodal Analysis

- ❖ Legislative mandate - SL 2019-251 SB 356, Section 1.7 (4)
- ❖ Pilot Vulnerability assessment tools – **VAST, HVI, City Simulator**
- ❖ Evaluate transportation vulnerability, risk and environmental stressors at large scale corridor level
 - Highway assets (bridge, pavement), ports (air, sea) and rail
 - Critical connections/access (interchanges and gateways) to military bases, tourist destinations
- ❖ Incorporate and harness NCDOT tools and data layers
 - ❖ Current and predictive flood inundation and probability – Bridge Watch, FIMAN-T advanced hydrologic modeling
 - ❖ Involve and engage planning partners along entire corridor
- ❖ Involve and engage planning partners along entire corridor



Short Term Strategy

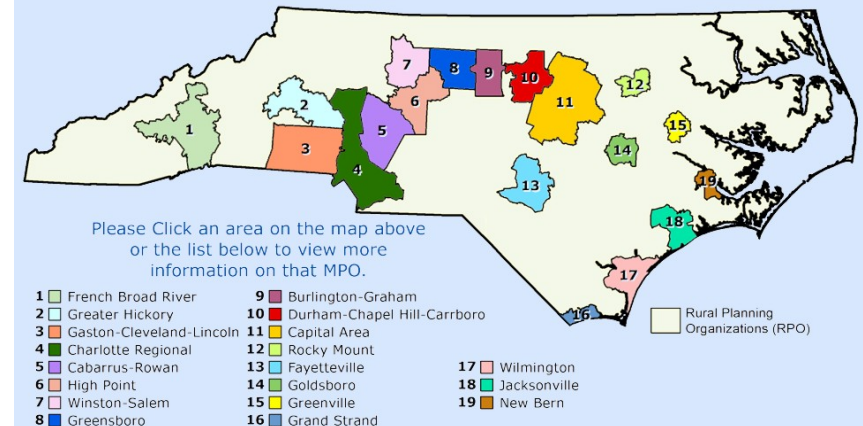
RESILIENCY WITHIN MTP and CTP



PLAN - Resiliency in MTP Update

- ❖ Build on Wilmington MPO approach – link Hydrological and Environmental layers ; expand use of project ATLAS and CTP layers
- ❖ Determine and describe resiliency-based criteria, considerations and project priorities.
- ❖ Identify Performance Measures for resiliency priorities – basis for project “burden/benefit” analysis
- ❖ Innovate stakeholder and community engagement
- ❖ Consider event-based scenario planning

Metropolitan Planning Organizations (MPO)



Legend

Inundated Roads

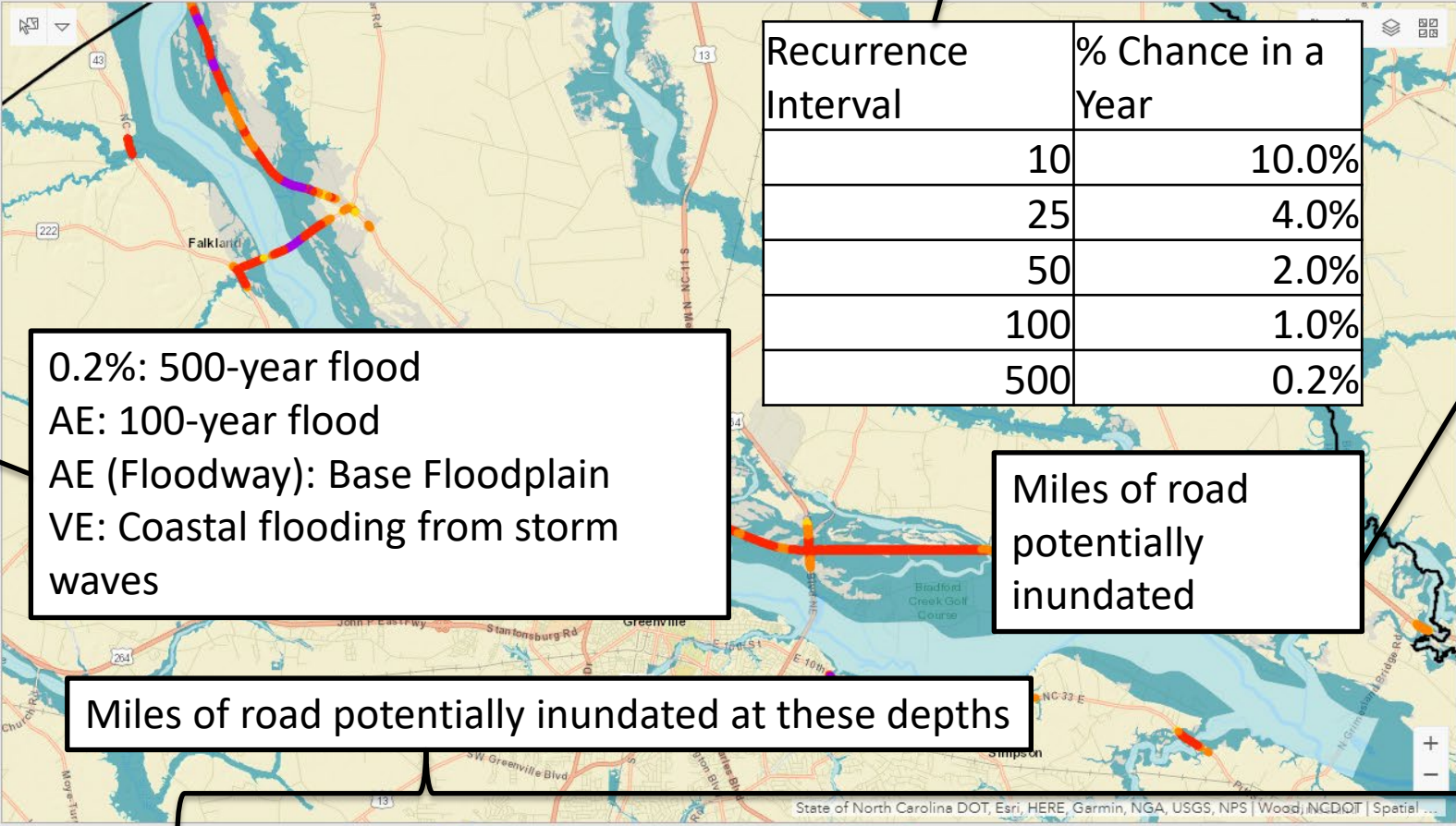
Depth

- > 5 ft
- 2 - 5 ft
- 0.5 - 2 ft
- 0.1 - 0.5 ft

Floodplains

Floodplains

- 0.2% Annual Chance Flood Hazard
- AE
- AE (Floodway)
- VE



Recurrence Interval	% Chance in a Year
10	10.0%
25	4.0%
50	2.0%
100	1.0%
500	0.2%

0.2%: 500-year flood
 AE: 100-year flood
 AE (Floodway): Base Floodplain
 VE: Coastal flooding from storm waves

Miles of road potentially inundated

Miles of road potentially inundated at these depths

500-year recurrence interval

Potential road inundation
 † 31.6 mi

Max inundation depth
 ≍ 8.4 ft

Average inundation depth
 ≍ 2.5 ft

Statistics

1,018 mi
 of streams
 Total Stream Mileage

0 mi
 of interstate
 Interstate Mileage

Depth: 0.1 - 0.5 ft
2.3 mi

Depth: 0.5 - 2 ft
9.6 mi

Depth: 2 - 5 ft
18 mi

Depth: >5 ft
1.6 mi



Legend

Inundated Roads

Depth

- > 5 ft
- 2 - 5 ft
- 0.5 - 2 ft
- 0.1 - 0.5 ft

Floodplains

Floodplains

- 0.2% Annual Chance Flood Hazard
- AE
- AE (Floodway)
- VE

Statistics

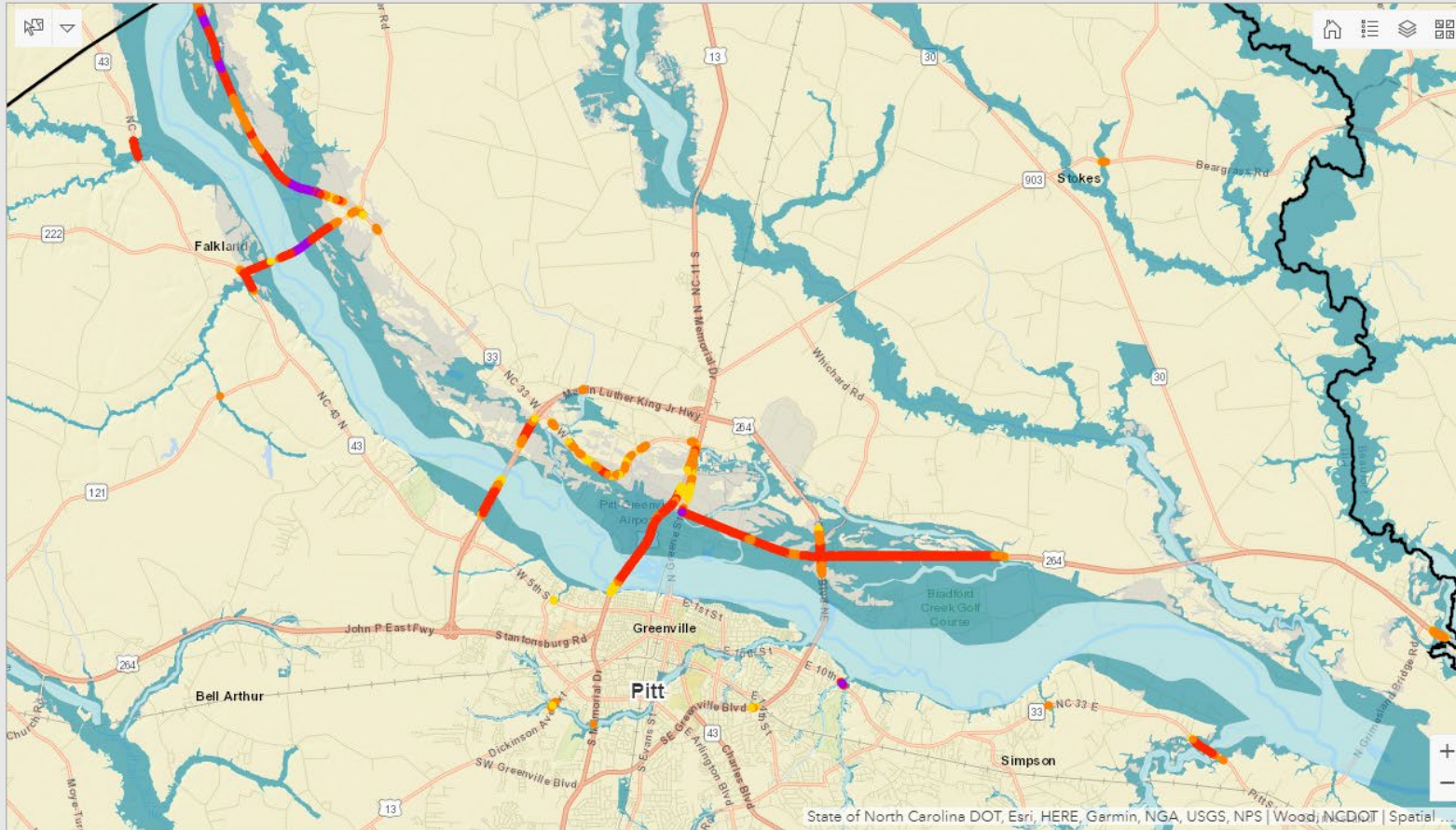
1,018 mi
of streams

Total Stream Mileage

0 mi

of interstate

Interstate Mileage



500-year recurrence interval

Potential road inundation
† 31.6 mi

Max inundation depth
≡ 8.4 ft

Average inundation depth
≡ 2.5 ft

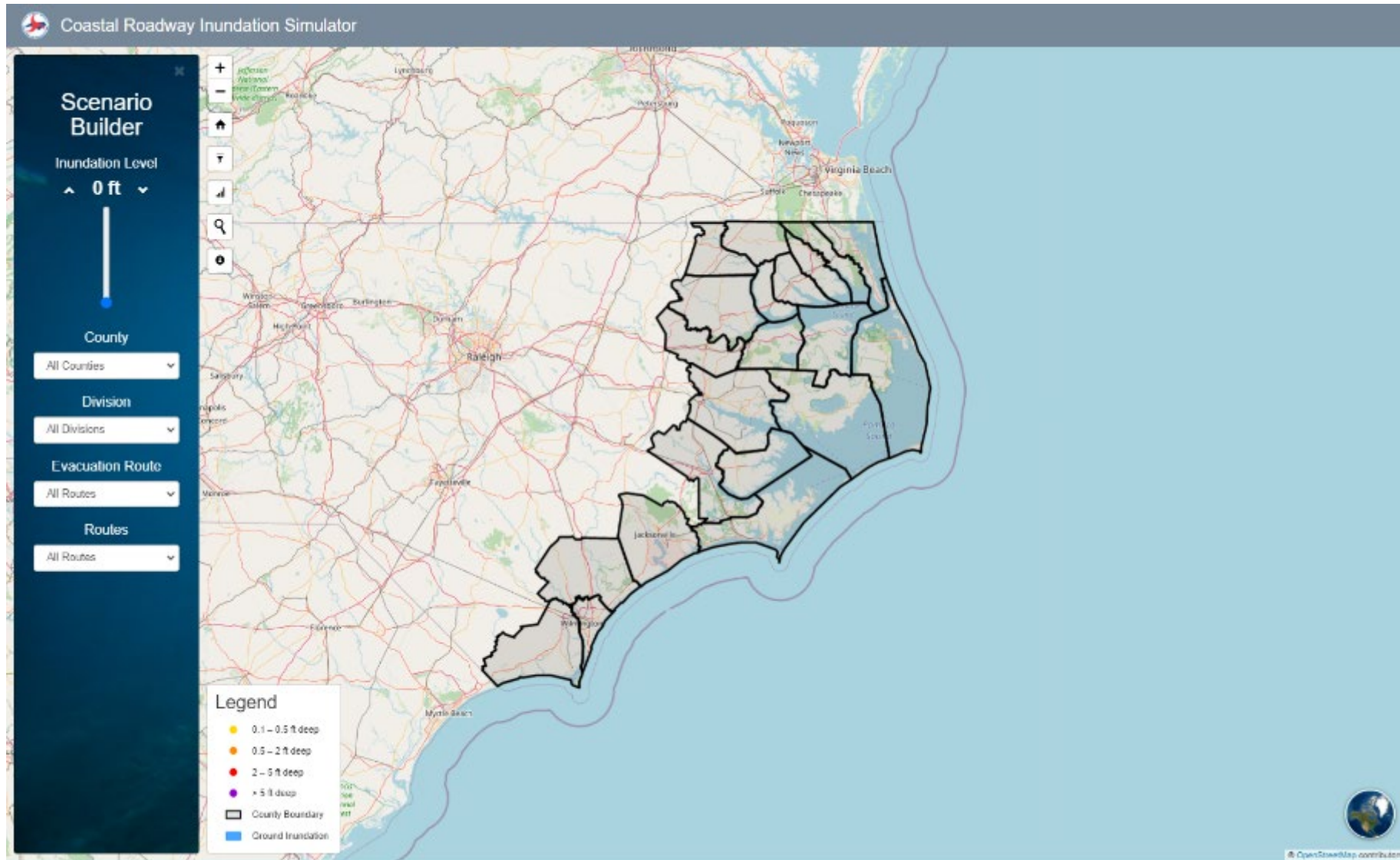
Depth: 0.1 - 0.5 ft
2.3 mi

Depth: 0.5 - 2 ft
9.6 mi

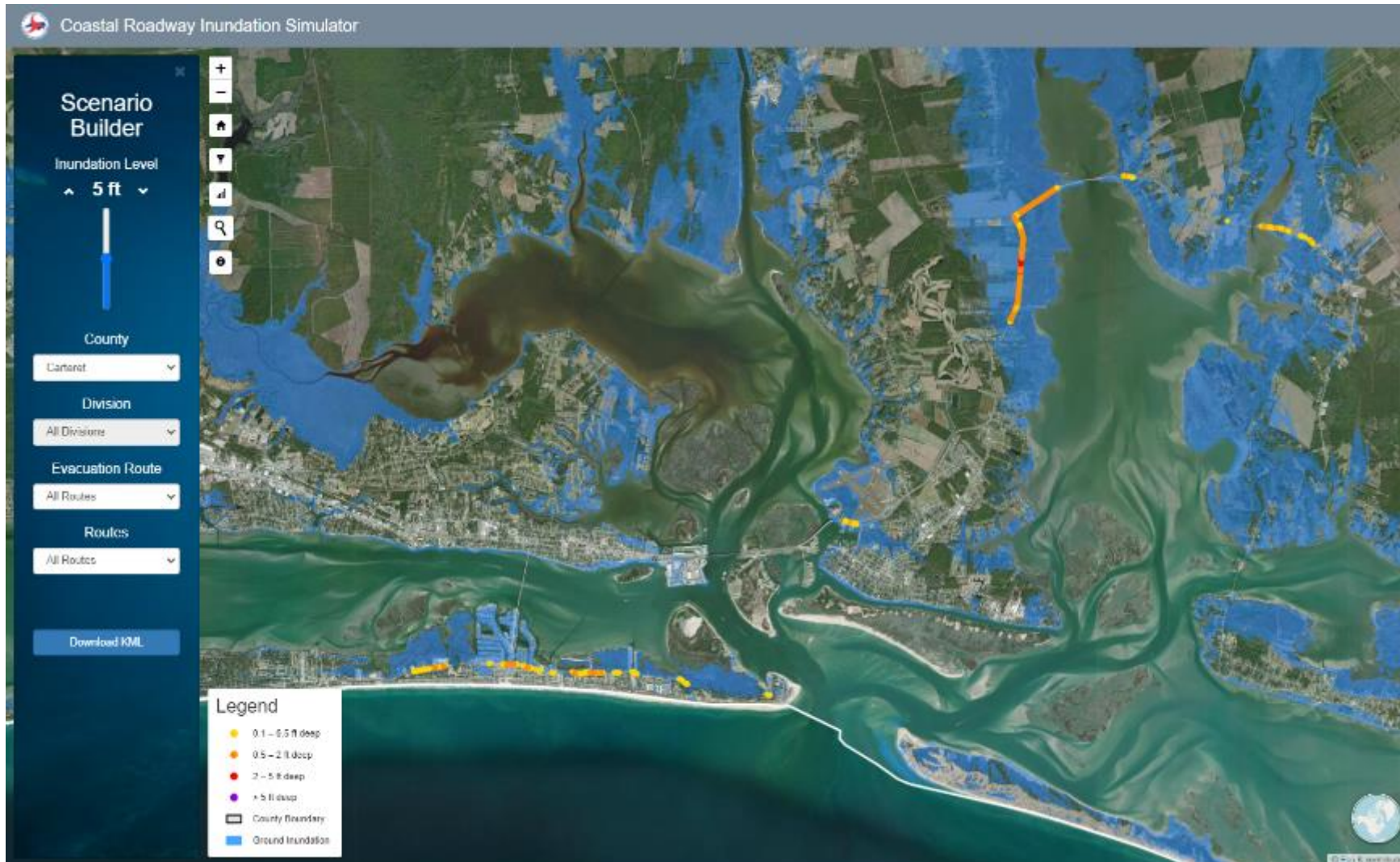
Depth: 2 - 5 ft
18 mi

Depth: >5 ft
1.6 mi

Coastal Roadway Inundation Simulator - CRIS



Coastal Roadway Inundation Simulator - CRIS



Geotech Asset Management Database

NCDOT - Geotechnical Asset Management (GAM) - NCDOT-GAM: MM7.5

Div_num	0
Easting	744,805.56
Failr_Typ	Rockslide
GAM_rating	1,482
geol_notes	Highly fractured meta-sediments; failure material originated from ~100' upslope
Images	
Latitude	35.73

NCDOT - Geotechnical Asset Management (GAM) - NCDOT-GAM

Properties

Use the selector above to switch between layers in the map.

Information

Symbology

Show in map legend

NCDOT - Geotechnical Asset Management (GAM) - NCDOT-GAM

Failr_Typ

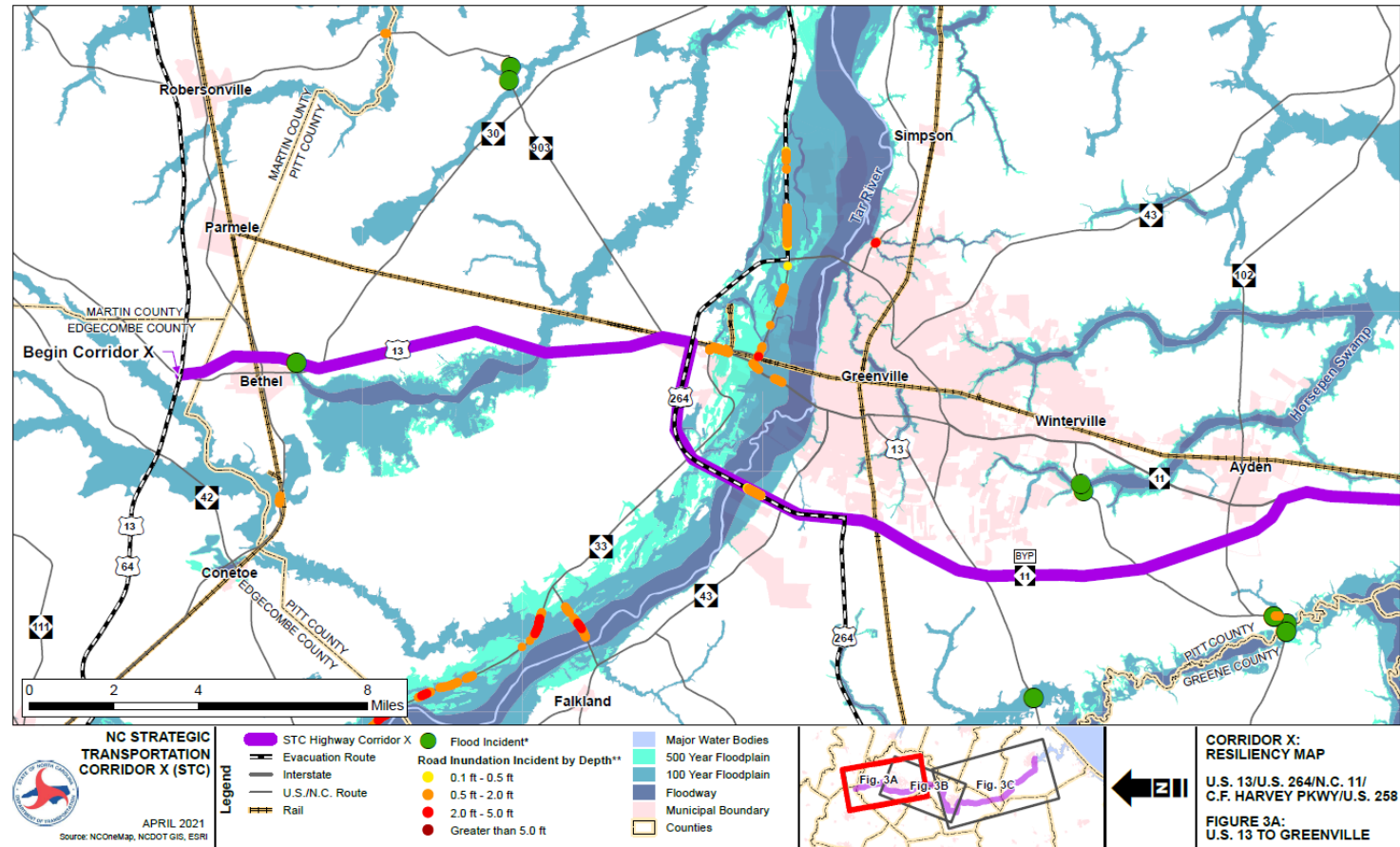
- E** Embankment
- H** Historic
- L** Landslide
- RF** Rockfall
- RS** Rockslide
- <all other values>

[Edit layer style](#)

Appearance

How to Apply Data

- Map the data along with environmental map
- See how flood inundation data affects projects
- Document potential project flood inundation and rockfall/landslide/rockslide
- Make note of roads parallel to facilities that are affected
- For roads that are inundated at certain recurrence intervals, follow provided guidelines



Guidelines for Flood Inundation

- Interstates and future interstates 100-year recurrence interval
- US and NC Routes – 50-year recurrence interval
- No data available on secondary roads at this time
- Engineering judgement on inundation depth of roadways
 - More than 0.5ft
 - If roadway is an Evacuation Route then any depth

Ongoing Resilience Projects

- Resilience Strategy Report Annual Update
- USACE Flood Risk Feasibility Studies on Neuse, Tar-Pamlico, and Lumber River Basins
- Finalize Flood Risk Feasibility Studies on I-95/I-40 and US-17/US-258
- Conduct Pilot Vulnerability Assessments on US74, US 70, west I-40, and NC12
- Rail Flood Inundation Mapping
- Resilience Registry of Projects

Rail Project



Making Transportation Resilient Web Site

Making Transportation Resilient



Flooding on I-95 in Robeson County after Hurricane Florence (2018)

The N.C. Department of Transportation, in line with its mission of *connecting people, products and places safely and efficiently*, is committed to building a transportation system designed around resilience and the ability to adapt and recover from a wide array of disruptions.

Initiatives & Policies

[Logistics + Freight](#)

[How a Road Gets Built](#)

[Military Connections](#)

[N.C. Bridges](#)

[NC Moves 2050 Plan](#)

[Safety & Mobility](#)

[Strategic Transportation Corridors](#)

[State Transportation Improvement Program](#)

[Statewide Transportation Plan](#)

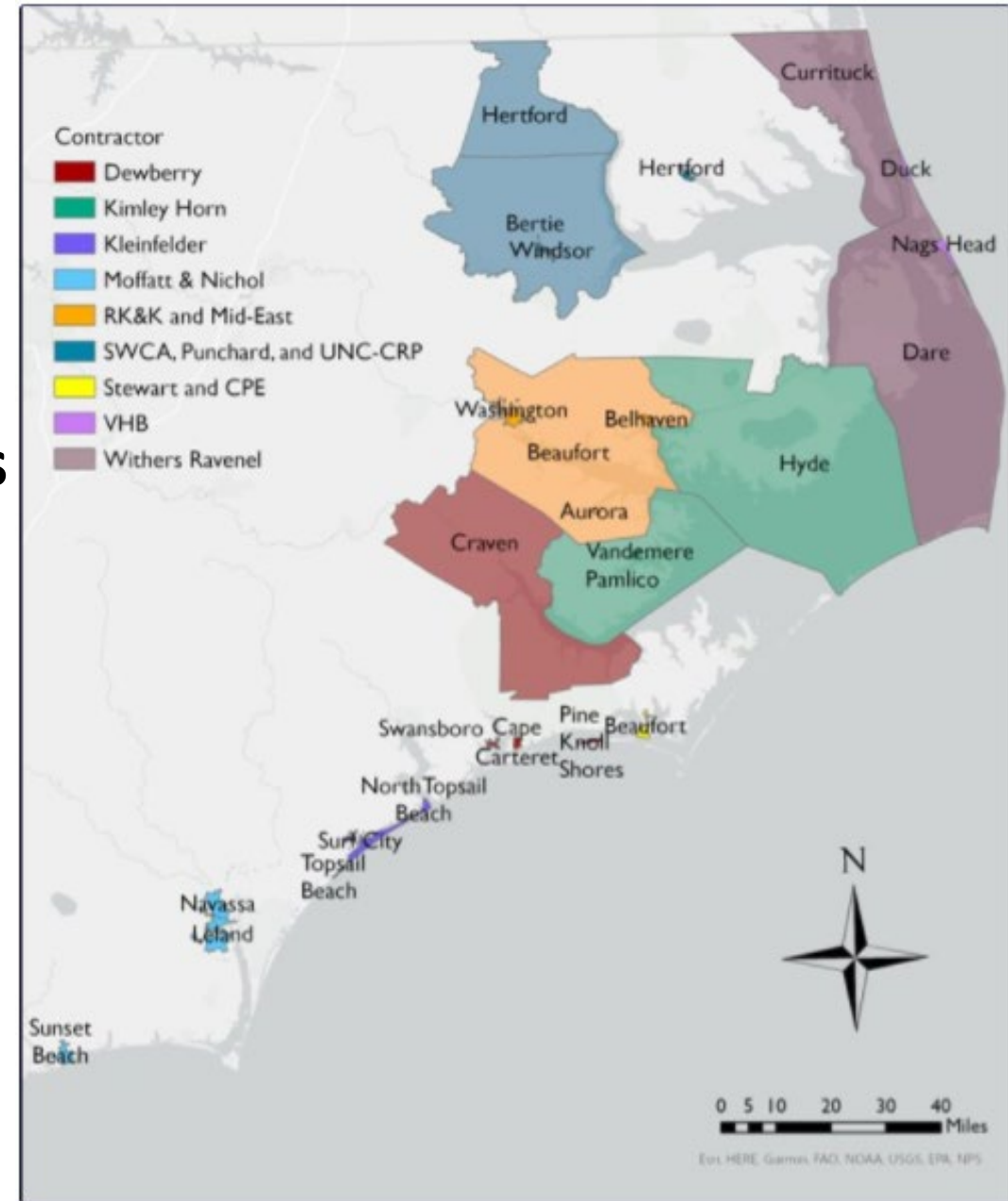
Transportation Resilience

[Studies & Reports](#)

[Frequently Used Terms](#)

Resilience – Next Steps

- Finalize policy
- Continue the work that's already being done
- Benefit-cost analyses of resilience projects
- Continue internal and external collaborative opportunities
 - NC Division of Coastal Management Technical Support Opportunities for coastal communities





NORTH CAROLINA
Department of Transportation



Thank you!

resilience@ncdot.gov



RESOLUTION

ADOPTING THE AMENDED 2020 – 2025 METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM AND AMENDED 2045 METROPOLITAN TRANSPORTATION PLAN FOR THE BURLINGTON - GRAHAM METROPOLITAN PLANNING ORGANIZATION

A motion was made by TAC member _____ and seconded by _____ for adoption of the resolution below, and upon being put to a vote was duly adopted on this 17th day of August, 2021.

WHEREAS, the Burlington – Graham Metropolitan Planning Organization (BGMPO) Transportation Advisory Committee (TAC) has found that the Metropolitan Planning Organization is conducting transportation planning in a continuous, cooperative, and comprehensive manner; and

WHEREAS, the Metropolitan Transportation Improvement Program (TIP) is a staged multiple year listing of all federally funded transportation projects scheduled for implementation within the Burlington – Graham Urban Area which have been selected from a priority list of projects, and

WHEREAS, the document provides the mechanism for official endorsement of the program of projects by the TAC; and

WHEREAS, projects listed in the TIP are also included in the North Carolina Department of Transportation (NCDOT) State Transportation Improvement Program (STIP) and balanced against anticipated revenues and identified in the STIP; and

WHEREAS, NCDOT has demonstrated fiscal constraint in the 2020 - 2029 STIP adopted on December 4, 2020 and the TIP is a subset of the STIP and by extension therefore demonstrates fiscal constraint; and

WHEREAS, the TIP shall include, to the maximum extent practicable, a description of the anticipated effect of the TIP toward achieving the performance targets identified in the metropolitan transportation plan, linking investment priorities to those performance targets; and

WHEREAS, the BGMPO Metropolitan Transportation Plan (MTP) has a Planning Horizon year of 2045, and meets all the requirements in 23 CFR 450;

WHEREAS, the BGMPO 2020 – 2025 TIP as amended is a direct subset of the 2045 MTP; and,

WHEREAS, the public has had the opportunity to review and comment on the amended 2020 – 2025 MTIP through public meetings and document sharing; and

NOW, THEREFORE, BE IT RESOLVED, that the Burlington - Graham Metropolitan Planning Organization Transportation Advisory Committee hereby approves the amended 2020 – 2025 Metropolitan Transportation Improvement Program and 2045 Metropolitan Transportation Plan.

CERTIFICATE: The undersigned certifies that the foregoing is a true and correct copy of a resolution adopted by the voting members of the TAC on August 17, 2021.

Date

Leonard Williams, Chair
Transportation Advisory Committee

STATE of: North Carolina
COUNTY of Alamance

I, _____, Notary Public of _____ County, North Carolina do hereby certify that Leonard Williams personally appeared before me on the ____ day of _____ 2021 to affix his signature to the foregoing document.

Notary Public
My Commission expires: _____

**PROPOSED AMENDMENTS AND MODIFICATIONS
TO TRANSPORTATION PROJECTS IN THE
BURLINGTON - GRAHAM MPO (BGMPO) TRANSPORTATION IMPROVEMENT PROGRAM (TIP)**

17-Aug-21

(COST AND SCHEDULES ARE PRELIMINARY AND SUBJECT TO SIGNIFICANT CHANGE AS MORE INFORMATION BECOMES AVAILABLE)

ID Number	Facility	City/County	Location	Project Description	TIP As Amended August 2, 2021				
					Committed (FY 2020-2025)		Developmental STIP (FY 2026-2029)		Cost/Funding
					PE/ROW	Construction	PE/ROW	Construction	
INTERSTATE									
I-5954	I-40/85	Alamance/Orange	East of N 54 In Graham to West of Buckhorn Road	Pavement Rehabilitation		Under Construction			\$ 11,179,000
I-5836	I-40/85	Graham	NC 49 to NC 54	Pavement Rehabilitation		Under Construction			\$ 100,000
I-5956	I-40/85	Alamance/Guilford	East of Rock Creek Dairy Road to West of University Drive	Pavement Rehabilitation		Under Construction			\$ 4,702,000
I-6009	I-40/85	Burlington	Huffman Mill Road	Construct left turn lane and improve Garden Road Operations			FY 2028	FY 2029	\$ 1,587,000
I-5711	I-40/85	Mebane	Mebane Oaks Road	Interchange Improvements		FY 2021/2023			\$ 14,443,000
I-5309	I-40/85	Alamance	Guilford County Line to East of NC 49	Pavement Rehabilitation		Under Construction			\$ 14,411,000
I-6059	I-40/85	Mebane	Trollingwood-Hawfields Road	Interchange Improvements			FY 2028	Post STIP	\$ 12,400,000
I-5958	I-40/85	Mebane	Buckhorn Road to Orange Grove Road	Pavement Rehabilitation			FY 2027	FY 2028	\$ 8,840,000
HIGHWAY									
R-5787	Various	Division 7	Division wide	ADA Intersection Upgrades		In Progress			\$ 6,189,000
U-3110 A/B	New Route	Elon	US 70 to Westbrook	Construct Multilane Facility Part on New Location		Complete			\$ 30,477,000
U-6011	US 70	Burlington	Huffman Mill Road	Intersection Improvements	FY 2023		FY 2025		\$ 2,700,000
U-5752	US 70	Burlington	St. Marks Church Road	Intersection Improvements		Under Construction			\$ 4,278,000
U-6009	US 70	Burlington	Tarleton Avenue to Fifth Street	Widen and Construct Center Turn Lane			FY 2027	Post STIP	\$ 11,319,000
U-6183	NC 49	Haw River	Wilkins Road and Bason Road	Intersection Improvements			FY 2027	Post STIP	\$ 2,700,000
U-6115A	NC 54	Graham	Riverbend Road and Johnson Street	Intersection Improvements			FY 2028	Post STIP	\$ 2,700,000
U-6115B	NC 54	Graham	I-40/85 Interchange	Upgrade Ramp Intersections			FY 2028	Post STIP	\$ 6,300,000
U-6115C	NC 54	Graham	Woody Drive	Intersection Improvements			FY 2028	Post STIP	\$ 2,900,000
U-6115D	NC 54	Graham	Woody Drive and Whittemore Road	Upgrade Pipe Culverts			FY 2028	Post STIP	\$ 1,900,000
U-6184	NC 54	Burlington	South O'Neal Street	Intersection Improvements			FY 2027	Post STIP	\$ 14,600,000
U-6010	US 70	Burlington	University Drive	Intersection Improvements and Widening of US 70		FY 2022			\$ 8,400,000
U-5844	NC 62	Burlington	Ramada Road to Church Street	Widen to Multilanes	FY 2023	FY 2024		FY 2025	\$ 11,400,000
U-6182	NC 87	Burlington	Flora Avenue	New Traffic Signal/Turn Lanes			FY 2027	Post STIP	\$ 1,300,000
U-3109A	NC 119	Mebane	I-85 to North to Mrs. White Road	Relocation		Under Construction			\$ 18,195,000
U-3109B	NC 119	Mebane	North of Mebane Rogers Rd to S. of Mrs. White Road	Relocation		Under Construction			\$ 6,435,000
U-6013	NC 119	Mebane	Trollingwood-Hawfields Road to Lowes Boulevard	Widen to Multilanes	FY 2022	FY 2024		FY 2025	\$ 8,700,000
U-6214	E. Haggard	Elon	W. Webb at University Drive	Improve Intersection			FY 2027	Post STIP	\$ 13,000,000
U-5538	New Route	Mebane	Trollingwood-Hawfields Road to Industrial Site	Construct Two-Lane Road		Under Construction			\$ 3,740,000
U-6114	NC 62	Burlington	Hatchery Road at Bonnie Lane	New Traffic Signal/Turn Lanes	FY 2025			FY 2027	\$ 15,210,000
U-6014	Graham-Hopedale Road	Burlington	W. Hanover Road to Morningside Drive	Widen to Multilanes with Bike/Ped Lanes	FY 2023	FY 2024		FY 2026	\$ 19,100,000
U-6132	N. Main Street	Graham	W. Parker Street	Intersection Improvements			FY 2028	Post STIP	\$ 3,000,000
U-6131	NC 54	Burlington	Maple Avenue	Intersection Improvements	FY 2025			FY 2026	\$ 1,610,000
U-6017	NC 54	Graham	East Elm Street	Intersection Improvements	FY 2022	FY 2023			\$ 2,780,000
U-5843	US 70	Burlington	Graham-Hopedale Road	Intersection Improvements		Under Construction			\$ 7,160,000
SIGNAL SYSTEM									
U-6015	Burlington	Burlington/Graham	Upgrade	Upgrade Signal System		Under Construction			\$ 9,266,000
BRIDGE REPLACEMENT									
B-4960	Judge Adams Road	Guilford	Little Alamance Creek	Bridge Replacement		Under Construction			\$ 3,514,000
B-6052	Trollingwood Road	Alamance	NCCR/Norfolk Southern Railroad	Bridge Replacement	FY 2024			FY 2026	\$ 3,000,000
B-5347	Pond Road	Alamance	Alamance Creek	Bridge Replacement		Under Construction			\$ 1,560,000
ID Number	Facility	City/County	Location	Project Description	TIP As Amended August 2, 2021		Developmental STIP (FY 2026-2029)		Cost/Funding
					PE/ROW	Construction	PE/ROW	Construction	
SAFETY									
HS-2007C	Various	Division 7	Division wide	Safety improvements at various locations in Division 7		FY 2021			\$ 3,455,000
W-5207	Various	Division 7	Division wide	Safety improvements at various locations in Division 7		Under			\$ 5,636,000
W-5707	Various	Division 7	Division wide	Safety improvements at various locations in Division 7		In Progress			\$ 4,757,000
W-5807B	Bonne Station Drive	Burlington	St. Marks Church Road/Java	Install Ped Signals and Curb Ramps		FY 2021			\$ 75,000
R-5787	Various	Division 7	Division wide	Intersection Upgrades for ADA Compliance		FY 21 and FY 22			\$ 2,500,000
CONGESTION MANAGEMENT									
C-5600	Various	CMAQ		Air Quality and Congestion Improvements	FY20,21,22	FY20,21,22			\$ 30,633,000
C-5601	Various	CMAQ		Air Quality and Congestion Improvements	FY20,21,22	FY20,21,22			\$ 4,404,000
C-5602	Various	CMAQ		Air Quality and Congestion Improvements	FY20 and 22	FY20 and 22			\$ 171,000
MITIGATION PROJECTS									
EE-4907	Various	Division 7	Division wide	Project Mitigation		In Progress			\$ 18,169,000

HS-2007C	Various	Division 7	Division wide	Long-Life Pavement Markings		FY 2021			\$ 3,455,000
AVIATION									
AV-5851	Burlington/Alamance Airport	Burlington	Runway	Construct Paved Overrun/Safety Improvements		FY 2022			\$ 2,080,000
AV-5737	Burlington/Alamance Airport	Burlington	Runway 24 Approach Improvements	Easements and Construction Clearance	FY 2022				\$ 1,200,000
BICYCLE AND PEDESTRIAN									
EB-5879	US 70	Burlington	Graham-Hopedale Road to Sellars Mill Road	Construct Sidewalk		FY 2022	FY 2022		\$ 94,000
EB-5885	US 70	Burlington	Beaumont Avenue to Graham-Hopedale Road	Construct Sidewalk			FY 2021		\$ 120,000
EB-5887	NC 49/ NC 54	Graham	W. Pine Street to N. Marshall Street	Construct Sidewalk	FY 2021	FY 2022			\$ 175,000
EB-5988	Lee Avenue	Elon	W. Lebanon Avenue to W. Haggard Avenue	Construct Sidewalk	FY 2024/25			FY 2026	\$ 307,000
TRANSIT									
TG-6187	Statewide			Formula Funding			FY 2020/22		\$ 3,751,000
TG-6811B	ACTA	Alamance		Funding for Preventive Maintenance			FY 2020		\$ 46,000
TA-6733	Link Transit	Alamance		Capital Assistance			FY 2020		\$ 1,235,000
TD-6322	Link Transit	Alamance		Capital Assistance			FY2020		\$ 60,000
TG-6812A	Link Transit	Alamance		ADA Services			FY 2020		\$ 211,000
TO-6170	Link Transit	Alamance		Operating Assistance			FY 2020		\$ 3,394,000
TP-5162	Link Transit	Alamance		Planning for Facility Feasibility Study			FY 2020		\$ 95,000
TP-5161	Link Transit	Alamance		Planning for Fixed Route Service Expansion			FY 2020		\$ 5,000
TO-5220	BGMPO	Orange		Operating Assistance			FY 2020		\$ 282,000
TO-6151	Link Transit	Gulford		Operating Assistance			FY 2020/21		\$ 4,032,000
TO-6142	Statewide			Formula Funding			FY 2020/22		\$ 18,778,000
TO-5214	ACTA	Alamance		Operating Assistance			FY 2020/27		\$ 10,060,000
TK-6103	ACTA	Alamance		Administration			FY 2020/23		\$ 4,882,000
TG-6137B	PART	Alamance		Capital			FY 2020/25		\$ 1,000,000
TO-5136	PART	Alamance/Gulford		Operating Assistance			FY 2020/23		\$ 11,817,000
TO-5134	PART	Alamance		Operating Assistance			FY 2020/25		\$ 3,806,000
PASSENGER RAIL									
P-4405	Various	Division 7		Private Crossings Safety			In Progress		\$ 10,291,000
RC-2007	Various	Division 7		Traffic Separation Study			To Be Requested		
RX-2007	Various	Division 7		Highway-Rail Grade Crossing Safety Improvements			To Be Requested		
Y-5807	Various	Division 7		Traffic Separation Study			To Be Requested		
Z-5807	Various	Division 7		Highway-Rail Grade Crossing Safety Improvements			To Be Requested		
P-5719	Piedmont Corridor	Division 7		Purchase and Refurbish Rail Cars			FY 2022, 24 and 25		\$ 212,528,000
P-5205	Piedmont Corridor	Alamance	Graham to Haw River	Siding and Curve Realignment			Under Construction		\$ 11,605,000
P-2918	Piedmont Corridor	Division 7	Piedmont Corridor Train 74/75, Operations added FY21	Equipment and Capital Yard Maintenance			In Progress		\$ 8,211,000

RESURFACING

2020

WBS	Plan Year	Route Name	County	From Description	To Description	To Description	Length
N/A	2020	US 70	001-Alamance	SR 1928	SR 1301	SR 1301	8.40
N/A	2020	Friendship-Patterson Mill Rd.	001-Alamance	NC 62	SR 2321	SR 2321	4.88
N/A	2020	Hatchery Rd.	001-Alamance	SR 1154	NC 62	NC 62	0.98
N/A	2020	O'Neal-Rockwood Conn.	001-Alamance	US 70	SR 1323	SR 1323	1.30
N/A	2020	Pond Rd.	001-Alamance	SR 1149	END MAINT	END MAINT	1.70
N/A	2020	Whitsell Dr.	001-Alamance	SR 1158	END MAINT	END MAINT	0.13
N/A	2020	Inge Rd.	001-Alamance	SR 1216	SR 1166	SR 1166	0.14
N/A	2020	Altamahaw Church St.	001-Alamance	SR 1571	CUL-DE-SAC	CUL-DE-SAC	1.31
N/A	2020	Alfred Rd.	001-Alamance	SR 2159	SR 2158	SR 2158	0.96
N/A	2020	Cedar Cliff Rd.	001-Alamance	SR 2116	NC 87	NC 87	1.67
N/A	2020	Harden St. (NC 54)	001-Alamance	US 70 (W)	NC 49	NC 49	2.17

2021

WBS	Plan Year	Route Name	County	From Description	To Description	To Description	Length
N/A	2021.00	NC 62	001-Alamance	GCL	I-40	I-40	7.05
N/A	2021.00	Mt. Willen Rd.	001-Alamance	SR 2135	SR 2147	SR 2147	4.60
N/A	2021.00	Anthony Rd.	001-Alamance	NC 62	SR 1148	SR 1148	0.29
N/A	2021.00	Anthony Rd.	001-Alamance	NC 49	SR 1147	SR 1147	3.05
N/A	2021.00	Graham Hopedale Rd.	001-Alamance	PVMT JOINT	NC 54	NC 54	2.84
N/A	2021.00	Parker St.	001-Alamance	NC 49	SR 1716	SR 1716	1.00
N/A	2021.00	Lindley Mill Rd.	001-Alamance	CCL	SR 1005	SR 1005	4.31
N/A	2021.00	Timber Ridge Lake Rd.	001-Alamance	NC 49	GCL	GCL	2.50
N/A	2021.00	Flora Ave.	001-Alamance	NC 87	SR 1530	SR 1530	1.07
N/A	2021.00	Danieley Water Wheel Rd.	001-Alamance	SR 1594	SR 1593	SR 1593	1.27
N/A	2021.00	Hanover Rd.	001-Alamance	SR 1801	SR 1716	SR 1716	1.78
N/A	2021.00	Stone St.	001-Alamance	NC 49	SR 1936	SR 1936	0.48
N/A	2021.00	Stone St. Extension	001-Alamance	SR 1935	SR 1940	SR 1940	2.26
N/A	2021.00	Center St.	001-Alamance	NC 119	OCL	OCL	0.37
N/A	2021.00	Holt St.	001-Alamance	US 70	SR 1962	SR 1962	1.63
N/A	2021.00	Eighth St.	001-Alamance	Sr 1961	SR 1007	SR 1007	0.60
N/A	2021.00	Bakatsias Lane	001-Alamance	SR 1928	END MAINT.	END MAINT.	0.52
N/A	2021.00	Porter Ave.	001-Alamance	SR 2185	END MAINT.	END MAINT.	0.08

N/A	2021.00	Silk Hope Liberty Rd.	001-Alamance	RCL	CCL	CCL	0.30
N/A	2021.00	Old Switchboard Rd.	001-Alamance	SR 1003	CCL	CCL	2.33
N/A	2021.00	Holman Mill Rd.	001-Alamance	SR 1004	SR 1005	SR 1005	0.77
N/A	2021.00	Longpine Rd.	001-Alamance	SR 1146	END MAINT.	END MAINT.	0.40
N/A	2021.00	South Mebane St.	001-Alamance	End of Divided	NC 87	NC 87	1.36
N/A	2021.00	Haggard Ave.	001-Alamance	SR 1301	NC 100	NC 100	0.73
N/A	2021.00	Haggard Ave.	001-Alamance	NC 87	SR 1323	SR 1323	1.30

REVISIONS TO THE 2020-2029 STIP
HIGHWAY PROGRAM

BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* C-4903	- BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, NORTH CAROLINA AIR AWARENESS OUTREACH PROGRAM TO PROVIDE EDUCATION AND PRODUCE DAILY AIR QUALITY FORECAST.	IMPLEMENTATION FY 2022 -	\$578,000	(CMAQ)
CABARRUS			FY 2022 -	<u>\$282,000</u>	(S)
CATAWBA	- ROCKY MOUNT METROPOLITAN PLANNING ORGANIZATION			\$860,000	
CHATHAM					
DAVIDSON	- GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION				
DAVIE					
DURHAM	- HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION	<u>ADD IMPLEMENTATION IN FY 22 NOT PREVIOUSLY PROGRAMMED. AT THE REQUEST OF THE TRANSPORTATION PLANNING DIVISION.</u>			
EDGEcombe					
FORSYTH	- GREENSBORO URBAN AREA METROPOLITAN PLANNING ORGANIZATION				
FRANKLIN					
GASTON	- GASTON CLEVELAND LINCOLN URBAN AREA METROPOLITAN PLANNING ORGANIZATION				
GRANVILLE					
GUILFORD					
HAYWOOD	- WINSTON-SALEM URBAN AREA METROPOLITAN PLANNING ORGANIZATION				
IREDELL					
JOHNSTON	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION				
LINCOLN					
MECKLENBURG	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION				
NASH					
ORANGE	- CAPITAL AREA METROPOLITAN PLANNING ORGANIZATION				
PERSON					
ROWAN	- CHARLOTTE REGIONAL TRANSPORTATION PLANNING ORGANIZATION				
SWAIN					
UNION	- LAND OF SKY RURAL PLANNING ORGANIZATION				
WAKE					
PROJ.CATEGORY	- NORTHWEST PIEDMONT RURAL PLANNING ORGANIZATION				
EXEMPT					
	- SOUTHWESTERN RURAL PLANNING ORGANIZATION				
	- UPPER COASTAL PLAIN RURAL PLANNING ORGANIZATION				
	- TRIANGLE AREA RURAL PLANNING ORGANIZATION				

* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2020-2029 STIP
HIGHWAY PROGRAM

BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

- ROCKY RIVER RURAL PLANNING ORGANIZATION
- KERR TAR RURAL PLANNING ORGANIZATION

EB-5879 ALAMANCE PROJ.CATEGORY DIVISION	- BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION	US 70 (NORTH CHURCH STREET), SR 1716 (GRAHAM-HOPEDALE ROAD) TO SR 1719 (SELLARS MILL ROAD) IN BURLINGTON. CONSTRUCT SIDEWALK. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY RIGHT-OF-WAY FROM FY 21 TO FY 22 AND CONSTRUCTION FROM FY 21 TO FY 22.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2022 - FY 2022 - FY 2022 - FY 2022 -	\$22,000 \$6,000 \$53,000 \$13,000 <hr/> \$94,000	(TA5200) (L) (TA5200) (L)
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* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2020-2029 STIP
HIGHWAY PROGRAM

BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

P-5719C	- CABARRUS-ROWAN URBAN AREA	NCRR, ACQUIRE AND REFURBISH 8 RAIL CARS.	CONSTRUCTION	FY 2022 - \$156,888,000	(O)
ALAMANCE	METROPOLITAN PLANNING ORGANIZATION	<u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND</u>		FY 2024 - \$27,820,000	(T)
CABARRUS	- BURLINGTON-GRAHAM URBAN AREA	<u>DESIGN, DELAY CONSTRUCTION FROM FY 21 TO FY 22.</u>		FY 2025 - \$27,820,000	(T)
DAVIDSON	METROPOLITAN PLANNING ORGANIZATION			\$212,528,000	
DURHAM	- DURHAM-CHAPEL HILL-CARRBORO				
GUILFORD	METROPOLITAN PLANNING ORGANIZATION				
MECKLENBURG	- CHARLOTTE REGIONAL TRANSPORTATION				
ORANGE	PLANNING ORGANIZATION				
ROWAN	- GREENSBORO URBAN AREA				
WAKE	METROPOLITAN PLANNING ORGANIZATION				
PROJ.CATEGORY	- HIGH POINT URBAN AREA METROPOLITAN				
REGIONAL	PLANNING ORGANIZATION				
	- CAPITAL AREA METROPOLITAN PLANNING				
	ORGANIZATION				

* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2020-2029 STIP
HIGHWAY PROGRAM

STATEWIDE PROJECT

STIP ADDITIONS

* TM-0036 STATEWIDE PROJ.CATEGORY PUBLIC TRANS	- STATEWIDE PROJECT	STATEWIDE, 5310 STATE ADMINISTRATIVE FUNDS. <u>ADD PROJECT IN FY 2022 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION. NEW PROJECT DEVELOPED FOR FEDERAL FUNDING AWARD.</u>	ADMINISTRATIVE	FY 2022 - <u>\$567,000</u> \$567,000	(5310)
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* TU-0008 STATEWIDE PROJ.CATEGORY PUBLIC TRANS	- STATEWIDE PROJECT	NCDOT, NCSU (ITRE) WILL PROVIDE TECHNICAL ASSISTANCE TO THE INTEGRATED MOBILITY DIVISION AND SUBRECIPIENTS. <u>ADD PROJECT IN FY 2022 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION. NEW PROJECT DEVELOPED FOR FEDERAL FUNDING AWARD.</u>	PLANNING	FY 2022 - \$118,000 (S) FY 2022 - <u>\$470,000</u> \$588,000	(5311)
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* TU-0009 STATEWIDE PROJ.CATEGORY PUBLIC TRANS	- STATEWIDE PROJECT	NCDOT, NCSU (ITRE) WILL USE THE FUNDS TO PROVIDE TRAINING/PROFESSIONAL DEVELOPMENT RELATED TO DELIVERY OF ADA TRAINING TO TRANSIT PROFESSIONALS. <u>ADD PROJECT IN FY 2022 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION. NEW PROJECT DEVELOPED FOR FEDERAL FUNDING AWARD.</u>	PLANNING	FY 2022 - <u>\$765,000</u> \$765,000	(RTAP)
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STIP MODIFICATIONS

* C-5702D STATEWIDE PROJ.CATEGORY EXEMPT	- STATEWIDE PROJECT	VARIOUS, NORTH CAROLINA CLEAN ENERGY TECHNOLOGY CENTER. CONDUCT A CLEAN-FUEL ADVANCED TECHNOLOGY OUTREACH AND AWARENESS PROGRAM IN ALL CMAQ-ELIGIBLE COUNTIES. <u>ADD NEW PROJECT BREAK AT THE REQUEST OF THE TRANSPORTATION PLANNING DIVISION.</u>	IMPLEMENTATION	FY 2022 - \$1,210,000 (CMAQ) FY 2022 - <u>\$303,000</u> \$1,513,000	(L)
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* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2020-2029 STIP
HIGHWAY PROGRAM

STATEWIDE PROJECT

STIP MODIFICATIONS

<p>* C-5702E STATEWIDE PROJ.CATEGORY EXEMPT</p>	<p>- STATEWIDE PROJECT</p>	<p>VARIOUS, NORTH CAROLINA CLEAN ENERGY TECHNOLOGY CENTER. EMISSIONS-REDUCING SUB-AWARDS IN ALL CMAQ-ELIGIBLE COUNTIES. <u>ADD NEW PROJECT BREAK AT THE REQUEST OF THE TRANSPORTATION PLANNING DIVISION.</u></p>	<p>IMPLEMENTATION</p>	<p>FY 2022 - \$1,222,000 (CMAQ) FY 2022 - <u>\$306,000</u> (L) \$1,528,000</p>
<p>* TO-0003 STATEWIDE PROJ.CATEGORY PUBLIC TRANS</p>	<p>- STATEWIDE PROJECT</p>	<p>STATEWIDE, HUMAN TRAFFICKING AWARENESS AND PUBLIC SAFETY INITIATIVE DISCRETIONARY GRANT AWARDED BY FTA. GRANT WILL ALLOW FOR STATEWIDE TRAINING AND IMPLEMENTATION OF A TRAINING PROGRAM FOR TRANSIT EMPLOYEES ACROSS THE STATE ON HOW TO RECOGNIZE AND RESPOND TO THE SIGNS OF HUMAN TRAFFICKING. THE DEPARTMENT ALSO WILL DEVELOP HUMAN TRAFFICKING AWARENESS EDUCATIONAL MATERIALS TO BE POSTED ON TRANSIT VEHICLES AND STATIONS. <u>MODIFY FUNDING IN FY 21 AT THE REQUEST OF THE INTEGRATED MOBILITY DIVISION.</u></p>	<p>ADMINISTRATIVE</p>	<p>FY 2021 - \$120,000 (5312) FY 2021 - <u>\$30,000</u> (5307) \$150,000</p>

* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2020-2029 STIP
HIGHWAY PROGRAM

TRIANGLE AREA RURAL PLANNING ORGANIZATION

STIP MODIFICATIONS

* C-4903	- BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, NORTH CAROLINA AIR AWARENESS OUTREACH PROGRAM TO PROVIDE EDUCATION AND PRODUCE DAILY AIR QUALITY FORECAST.	IMPLEMENTATION FY 2022 -	\$578,000	(CMAQ)
CABARRUS			FY 2022 -	<u>\$282,000</u>	(S)
CATAWBA	- ROCKY MOUNT METROPOLITAN PLANNING ORGANIZATION			\$860,000	
CHATHAM					
DAVIDSON	- GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION				
DAVIE		<u>ADD IMPLEMENTATION IN FY 22 NOT PREVIOUSLY PROGRAMMED. AT THE REQUEST OF THE TRANSPORTATION PLANNING DIVISION.</u>			
DURHAM	- HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION				
EDGECOMBE					
FORSYTH	- GREENSBORO URBAN AREA METROPOLITAN PLANNING ORGANIZATION				
FRANKLIN					
GASTON	- GASTON CLEVELAND LINCOLN URBAN AREA METROPOLITAN PLANNING ORGANIZATION				
GRANVILLE					
GUILFORD					
HAYWOOD	- WINSTON-SALEM URBAN AREA METROPOLITAN PLANNING ORGANIZATION				
IREDELL					
JOHNSTON	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION				
LINCOLN					
MECKLENBURG	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION				
NASH					
ORANGE	- CAPITAL AREA METROPOLITAN PLANNING ORGANIZATION				
PERSON					
ROWAN	- CHARLOTTE REGIONAL TRANSPORTATION PLANNING ORGANIZATION				
SWAIN					
UNION	- LAND OF SKY RURAL PLANNING ORGANIZATION				
WAKE					
PROJ.CATEGORY	- NORTHWEST PIEDMONT RURAL PLANNING ORGANIZATION				
EXEMPT					
	- SOUTHWESTERN RURAL PLANNING ORGANIZATION				
	- UPPER COASTAL PLAIN RURAL PLANNING ORGANIZATION				
	- TRIANGLE AREA RURAL PLANNING ORGANIZATION				

* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2020-2029 STIP
HIGHWAY PROGRAM

UPPER COASTAL PLAIN RURAL PLANNING ORGANIZATION

STIP MODIFICATIONS

* C-4903	- BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, NORTH CAROLINA AIR AWARENESS OUTREACH PROGRAM TO PROVIDE EDUCATION AND PRODUCE DAILY AIR QUALITY FORECAST.	IMPLEMENTATION	FY 2022 -	\$578,000	(CMAQ)
CABARRUS				FY 2022 -	<u>\$282,000</u>	(S)
CATAWBA	- ROCKY MOUNT METROPOLITAN PLANNING ORGANIZATION				\$860,000	
CHATHAM						
DAVIDSON	- GREATER HICKORY METROPOLITAN PLANNING ORGANIZATION					
DAVIE						
DURHAM	- HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION	<u>ADD IMPLEMENTATION IN FY 22 NOT PREVIOUSLY PROGRAMMED. AT THE REQUEST OF THE TRANSPORTATION PLANNING DIVISION.</u>				
EDGECOMBE						
FORSYTH	- GREENSBORO URBAN AREA METROPOLITAN PLANNING ORGANIZATION					
FRANKLIN						
GASTON	- GASTON CLEVELAND LINCOLN URBAN AREA METROPOLITAN PLANNING ORGANIZATION					
GRANVILLE						
GUILFORD						
HAYWOOD	- WINSTON-SALEM URBAN AREA METROPOLITAN PLANNING ORGANIZATION					
IREDELL						
JOHNSTON						
LINCOLN	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION					
MECKLENBURG						
NASH	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION					
ORANGE						
PERSON	- CAPITAL AREA METROPOLITAN PLANNING ORGANIZATION					
ROWAN						
SWAIN	- CHARLOTTE REGIONAL TRANSPORTATION PLANNING ORGANIZATION					
UNION						
WAKE	- LAND OF SKY RURAL PLANNING ORGANIZATION					
PROJ.CATEGORY						
EXEMPT	- NORTHWEST PIEDMONT RURAL PLANNING ORGANIZATION					
	- SOUTHWESTERN RURAL PLANNING ORGANIZATION					
	- UPPER COASTAL PLAIN RURAL PLANNING ORGANIZATION					
	- TRIANGLE AREA RURAL PLANNING ORGANIZATION					

* INDICATES FEDERAL AMENDMENT

NCDOT PROJECTS LOCATED IN BGUMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
SS-4907BQ 44757.1.1 44757.2.1 44757.3.1	Intersection improvements (All Way Stop) at SR 1005 (Greensboro-Chapel Hill Road) at SR 2369 (Sylvan School Road) and SR 2371 (Pleasant Hill Road) in Snow Camp .	5/1/21	Jun. 2021	\$22,500 R/W \$153,000 CON	4-way stop installation and flasher completed 4/17/18, utility relocations complete, widening delayed to Spring 2022	Derek Dixon
48798	Installation of crosswalks and pedestrian signals and update curb ramps at the intersection of US 70 (South Church Street) and Edgewood Avenue (non-system) in Burlington .	Dec. 2021	Jul. 2022	\$150,394	Construction Pending	Dawn McPherson Derek Dixon
47786 SM-5707B 47903.2.1	Intersection improvements on SR 1007 (Mebane Oaks Rd) at SR 2126/2128 (Old Hillsborough Rd) south of Mebane . Improvements include addition of left and right turn lanes, radii widening, signal installation, resurfacing, and pavement markings.	Apr. 2021	Jun. 2021	\$898,500	Design complete, ROW acquisition underway - 100% complete with right of entry, Utility relocations pending - Construction to begin after utility relocations	Chad Reimakoski Derek Dixon
SS-6007Y 49709.1.1 49709.3.1	Intersection improvements (all-way stop and overhead flasher) at intersection of SR 1005 (Greensboro Chapel Hill Road) at SR 1004 (Snow Camp Road) in Snow Camp .	1/3/2022	6/30/22	\$29,700	Planning and design activities underway	Dawn McPherson
U-6010 47145.1.1 47145.2.1 47145.3.1	Intersection improvements at US 70 (South Church Street) and SR 1226/SR 1311 (University Drive) in Burlington	4/19/22	FY 2024	\$8,400,000	Planning and design activities underway, ROW acquisition underway	Brian Ketner
SS-6007A 48886.1.1 48886.3.1	All-Way Stop installation with overhead flashers, and rumble strips installation at NC 49 and SR 1005 (West Greensboro Chapel Hill Road).	Jun. 2021	Oct. 2021	\$61,200	Funds approved and released 9/11/19 - Construction began 7/28/2021	Dawn Mcpherson
B-5728 45684.1.1 45684.2.1 45684.3.1	Replace Bridge #112 over Reedy Fork Creek on NC87 in Ossipee	11/16/21	FY2024	\$6,200,000	Planning and design activities complete - ROW underway	Kevin Fischer

NCDOT PROJECTS LOCATED IN BGUMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
SS-6007G 49117.1.1 49117.3.1	Installation of overhead flasher on NC 49 at SR 1130 (Friendship Patterson Mill Road) south of Burlington .	Jun. 2022	Nov. 2022	\$9,900	Funds approved 3/5/20 and released 6/23/20 - Overhead flasher installed - Final Inspection Completed 5/28/2021	Dawn McPherson
W-5807B 48952.1.3 48952.2.3 48952.3.3	Installation of ADA curb ramps and pedestrian accessible signals on SR 1301 (Boone Station Drive) at SR 1301 (St. Marks Church Road) and Boone Station Drive (non-system) at Glidewell Road/Tiki Lane (non-system) in Burlington	5/30/21	FY2024	\$75,000	PE funds scheduled to be released 2/2/21 - Construction Underway	Dawn McPherson Chad Reimakoski
U-6017 47162.1.1 47162.2.1 47162.3.1	Intersection improvements at NC 54 (East Harden St.) and NC 49 (East Elm St.) in Graham	2/16/23	FY2025	\$2,500,000	Planning and design activities underway	Rob Weisz
U-5844 50234.1.1 50234.2.1 50234.3.1	Construct multi-lanes on NC62 from SR 1430 (Ramada Road) to US 70 (South Church Street) in Burlington	11/21/23	FY2026	\$9,000,000	Planning and design activities underway	Rob Weisz
U-6013 47158.1.4 47158.2.4 47158.3.4	Widen NC 119 to multi-lanes from SR 1981 (Trollingwood-Hawfields Rd)/ SR 2126 (Old Hillsborough Rd) to Lowes Blvd (non-system) in Mebane .	12/19/23	FY 2026	\$5,200,000	Planning and design activities underway	Rob Weisz
U-6014 47159.1.1 47159.2.1 47159.3.1	Widen SR 1716 (Graham-Hopedale Rd) to multi-lanes with Bicycle/Pedestrian accommodations from SR 1720 (West Hanover Rd) to Morningside Drive in Burlington	5/21/24	FY 2026	\$11,300,000	Planning and design activities underway, Includes EB-5882	Rob Weisz
U-6011 47146.1.1 47146.2.1 47146.3.1	Intersection improvements at US 70 (South Church Street) and SR 1158 (Huffman Mill Rd) in Burlington	8/20/24	FY2026	\$2,400,000	Planning and design activities underway	Brian Ketner
B-6052 48709.1.1 48709.2.1 48709.3.1	Replace bridge 68 over NCRR / Norfolk Southern Railroad on SR 1928 (Trollingwood Road) in Haw River	1/20/26	FY2027	\$2,500,000	PE funding approved 5/6/19	Kevin Fischer

NCDOT PROJECTS LOCATED IN BGUMPO - UNDER DEVELOPMENT

TIP/WBS #	Description	Let/Start Date	Completion Date	Cost	Status	Project Lead
I-6009 47962.1.1 47962.2.1 47962.3.1	Interchange improvements at I-40/I-85 and SR 1158 (Huffman Mill Road). Construct additional right turn lane on I-40 WB Ramp and improve operations at SR 1308 (Garden Road) intersection in Burlington	6/27/29	FY2031	\$936,000	PE funding approved 6/5/18	Brian Ketner
U-6009 47144.1.1 47144.2.1 47144.3.1	Widen and construct center turn lane on US70 (West Church St) from Tarleton Ave. to Fifth Street in Burlington	1/1/40	FY2040	\$6,337,000	Planning and design activities on hold	Rob Weisz
I-6059 48689.1.1 48689.2.1 48689.3.1	Interchange improvements at I-40/I-85 and SR 1981 (Trollingwood-Hawfields Road) in Mebane	1/1/40	FY2040	\$12,400,000	PE funding scheduled for 12/4/24	Laura Sutton

North Carolina Department of Transportation

Active Projects Under Construction - Alamance Co.

Contract Number	TIP Number	Location Description	Contractor Name	Resident Engineer	Contract Bid Amount	Availability Date	Completion Date	Work Start Date	Estimated Completion Date	Progress Schedule Percent	Completion Percent
C203676	B-5239	REPLACE BRIDGE #126 OVER MILL RACE AND BRIDGE #119 OVER HAW RIVER ON NC-87.	DANE CONSTRUCTION INC	Howell, Bobby J	\$4,786,122.27	3/15/2018	3/29/2020	3/15/2018	4/15/2021	100.00	99.57
C203844	U-3109A	NC-119 RELOCATION FROM I-40/85 TO SR-1921 (MEBANE ROGERS RD/ STAGE COACH RD).	THALLE CONSTRUCTION CO., INC.	Howell, Bobby J	\$45,389,069.36	6/26/2017	1/28/2021	8/3/2017	12/31/2021	100.00	81.15
C204106	U-3109B	NC-119 RELOCATION NORTH OF SR-1921 (MEBANE ROGERS RD) TO SOUTH OF SR-1918 (MRS WHITE RD).	THALLE CONSTRUCTION CO., INC.	Howell, Bobby J	\$8,151,660.80	8/27/2018	11/28/2020	10/4/2018	11/15/2021	100.00	76.85
C204111	U-6015	BURLINGTON - GRAHAM SIGNAL SYSTEM	ALS OF NORTH CAROLINA LLC	Howell, Bobby J	\$7,938,392.20	10/29/2018	8/15/2021	2/11/2019	11/2/2021	81.02	66.07
C204603	I-5711	I-40/I-85 AND SR 1007 (MEBANE OAKS ROAD) IN MEBANE INTERCHANGE IMPROVEMENTS	ZACHRY CONSTRUCTION CORPORATION	Howell, Bobby J	\$12,865,732.71	4/26/2021	1/11/2024	4/26/2021	1/11/2024	6.00	7.55
C204626		RESURFACE 1 SECTION OF NC 87, 1 SECTION OF NC 49 AND 21 SECTIONS OF SECONDARY ROADS	FSC II LLC DBA FRED SMITH COMPANY	Lorenz, PE, Kris	\$4,639,570.37	6/3/2021	11/1/2022	6/28/2021			
DG00407		REPLACE BRIDGE #444 ON SR 1768 (HUGHES MILL ROAD) OVER JORDAN CREEK	SMITH-ROWE, LLC	Howell, Bobby J	\$620,550.15	6/3/2021	8/31/2022				
DG00426		RESURFACE A PORTION OF NC 87 AND PORTIONS OF 3 SECONDARY ROADS	RILEY PAVING INC	Lorenz, PE, Kris	\$3,463,032.95	7/9/2018	11/1/2019	2/25/2020	1/1/2021	100.00	90.92
DG00489		AST RE-TREATMENT OF 14 SECONDARY ROADS	CAROLINA ROAD SOLUTIONS LLC	Howell, Bobby J	\$444,745.69	4/1/2021	10/30/2021	5/3/2021	10/30/2021	100.00	88.12
DG00507		AST RETREATMENT OF 48 SECONDARY ROADS IN ALAMANCE COUNTY AND ONE SECONDARY ROAD IN ORANGE COUNTY	WHITEHURST PAVING CO., INC	Hayes, PE, Meredith D	\$1,042,639.12	7/1/2021	6/30/2022	7/6/2021	6/30/2022	72.00	67.50
DG00511		REPLACE BRIDGE #173 ON SR 1149 (HUFFMAN MILL ROAD) OVER BACK CREEK	R.E. BURNS & SONS CO., INC.	Snell, PE, William H	\$2,106,851.45	5/3/2021	10/25/2022	5/3/2021	10/25/2022	28.00	25.02
DG00521		REPLACE BRIDGE #164 ON SR 1113 (KIMESVILLE ROAD) OVER NORTH PRONG STINKING QUARTER CREEK	FSC II LLC DBA FRED SMITH COMPANY	Hayes, PE, Meredith D	\$1,418,242.53	6/21/2021	11/18/2021	6/21/2018	11/18/2021	18.00	5.47
DG00523		REPLACE BRIDGE #128 ON SR 2369 (SYLVAN ROAD) OVER CANE CREEK	FSC II LLC DBA FRED SMITH COMPANY	Hayes, PE, Meredith D	\$963,820.60	5/24/2021	8/22/2021	6/10/2021	8/22/2021	27.00	18.21

THE PARTiculars

Piedmont Authority for Regional Transportation

August 2021

PART

A New Look

There are many variables to **Connecting Communities** within the Triad. The **PART**iculars is our monthly newsletter that gives us an opportunity to check in, connect, and share the latest news about PART and our PARTnerships. As we work hard to provide great commuter services, stay “in-the-know” with The **PART**iculars.

PART Riders Enjoy New Comfort and Style

PART welcomes a new addition to our fleet family! **Our New Flyer Xcelsior**, 40-foot buses are packed with innovative style and increased comfort, providing our valued commuters with an enhanced riding experience. PART purchased a total of 10 new buses. In March 2021, we received six buses that went into operation in May. In June 2021, we received four additional buses; service is scheduled to begin in August. Here are some of the amenities:

- Seating accommodations are for 38 and can hold up to 52 passengers
- Passenger windows can open and close on the upper transom
- Installation of boarding camera above driver's headspace
- Enhanced 'talking bus' features, announcing stop arrivals
- Driver Safety partitions
- Rear route signage

The Diamond Dropbox Fare Boxes are a big change! These new fare boxes are the beginning of a full transition from our old GFI Fare boxes. By using Umo and the Diamond Fare Boxes, we're making it easier for commuters to ride. The total cost for the new additions to PART's fleet was roughly \$4.9 million with 80% FTA grant funds and 20% local funds.



Driver Shortages Bring On Temporary Suspension of Service

Due to driver shortages, PART was forced to make the hard choice to temporarily suspend PART Express **Route 9 – Davidson County Greensboro Express and Route 10 – Randolph County Express**. This decision went into effect Monday, July 12, 2021, and will remain in effect until we can ensure runs will not be missed due to lack of personnel. These decisions are never easy as we know they affect our valued passengers. We fully recognize this means the passengers will have to find alternative transportation until more drivers are hired, and we can consistently provide service.

Our contractor, National Express, has been challenged with seeking new driver talent, but they are taking aggressive steps to fill the void. They have recently increased driver wages, launched an intensive recruiting campaign, and will be holding on-site career events every Wednesday, beginning August 11, 2021. PART will be evaluating our circumstances daily and looking to re-establish service early this fall.

Route Changes

It's that time of year! Over the past several years, the fall has introduced service changes for PART Express; the same holds true during August 2021. With the reopening of UNC, PART is bringing back our full **Route 4 Greensboro to Chapel Hill and Route 4 – Alamance Burlington Express** service with a few minor modifications. These changes will enable employees, patients, and students, to have greater opportunities to get back and forth between Chapel Hill and other areas across our region.

There are also two minor bus stop changes that will take place on **Route 24 – Burgess/Regional Road** to service customers in more convenient locations including improved access to Truist (formerly BB&T).

Visit www.partnc.org/routechanges for more information on the changes, beginning on August 2, 2021.

Did You Know?



Keeping you safe is our number one priority! Because PART receives Federal Funding, we are required to participate in the Federal Transit Administration Drug & Alcohol Program. All employees are required to conduct pre-employment drug testing and post-accident drug and alcohol testing.

In addition to these regulations, all employees working in safety-sensitive positions such as driving, maintenance workers, and even our ticket agents, must participate in a random drug and alcohol testing program. When testing is necessary, the tests are conducted at Certified Collection and Testing Facilities to ensure the tests and methods used are accurate, and in compliance with the regulations. Drug and alcohol testing is just one critical component used to ensure all employees, passengers, and the public are as safe as possible as they travel throughout the Piedmont Triad region.

It's Time to Get Engaged...

...in our social media, that is! PART is interested in connecting with you to read your comments, see your likes, check out your shares, and retweet your sweet tweets. And we'd like you to do the same!



A Special Note of Thanks to Our Partners

As with most agencies, PART has been directly impacted due to COVID-19. Our main local funding source comes from rental car proceeds. The shutting down of businesses, restrictions on travel, and changes in workforce, meant PART began last fiscal year 57% below "normal" levels. Although this fiscal year has seen some improvement, we are still looking at a 23% decrease.

Special recognition and thanks to our PARTner agencies including our local cities and Metropolitan Planning Organizations (MPOs), for providing much needed Federal Transit Administration Cares Act, Coronavirus Response and Relief Supplemental Appropriations Act, and American Rescue Plan funds. These dollars have supported PART Express service and additional safety measures we've implemented, since March 2020.

CHALK TALK

At PART, we love hearing from our commuters

"I take PART public transit, so my commute is spent relaxing, instead of fighting traffic. I can focus on myself more and relax on the way home if it's been a stressful day. I can also read and learn something new." ~ Miguel F.

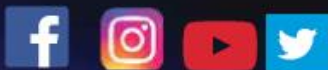
It's a wise choice to ride with PART!

Why ride?

Less time behind the wheel = less stress

Get a few extras steps in

Check up on your emails!



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