

**Cabarrus Rowan Urban Area  
Metropolitan Planning Organization  
Technical Coordinating Committee**

**Wednesday October 18, 2023**

10:00 AM to 12:00 noon

**VIRTUAL MEETING**

**Agenda**

**1) Call to Order & Quorum TCC Chairman Smith**

- Roll Call of Voting Members & Introduction of Guests
- Adjustments to the Agenda
- Speakers from the Floor (3 minutes per speaker)

**2) Approval of August 16, 2023 minutes TCC Chairman Smith**

**3) FY 2024-2033 MTIP Modification #1 Wendy Miller**

**INFORMATION:** MPO staff typically brings amendments or modifications from recent NCDOT Board of Transportation agendas to the TCC/TAC for consideration. The first project modifications are statewide project additions: HM-9999, HS-2420DIV, HS-2420, HS-2420REG, HS-2420SW, HS-2421DIV, HS-2421REG, HS-2421SW, HS-2422DIV, HS-2420REG, HS-2422SW, SM-6215DIV, SM-6215REG, SM-6215SW, HO-0010B, M-556, TO-0004, P-2918, P-5719C, TC-0008, TC-0010, and TC-0012. The second project modification is the addition of preliminary engineering for the Concord sidewalk projects (BL-0087). The third project modification is to delay construction to FY 24 for the north apron expansion at Concord Regional Airport (AV-5892). The fourth project modification is to delay construction to FY 25 for the Bethpage Road sidewalk (C-5603F). The fifth project modification is to delay construction to FY 24 for the Grants Creek Greenway (EB-5619B). The sixth project modification is to delay construction to FY 24 for the Grants Creek Greenway (EB-5619C). The seventh project modification is to the cost increase for the NC 152 roundabout (HE-0009). The eighth project modification is to delay right-of-way to FY 24 for the Poplar Tent and Harris Intersection project (HL-0001). The ninth project modification is to delay right-of-way to FY 24 for the Brenner Avenue roundabout project (HE-0049). The tenth project modification is to delay construction to FY 25 for the US 29/Main Street improvements (HL-0064). The eleventh project modification is to add intersection improvements at NC 152 and NC 153 with construction in FY 24 (HS-2009I). The twelfth project modification is to add wrong way pavement marking signs on I-85 in FY 24 (HS-2010M). The thirteenth project modification is to increase the cost for the equipment and capital yard maintenance facility (P-

2918). The fifteenth project modification is to delay construction to FY 24 for the Piedmont Corridor trains and maintenance facility (P-5719C). The sixteenth project modification is to delay construction to FY 24 for the Norfolk Southern crossover relocation (P-5726B). The seventeenth project modification is to accelerate right-of-way to FY 24 for the Salisbury Train Station waiting area improvements (P-5733). The eighteenth project modification is the segmenting of NC 73 into BA and BB for R-5706B. The nineteenth project modification is the delay of construction to FY 26 for the Dale Earnhardt Blvd intersection improvements (U-5761). The twentieth project modification is the addition of segment E to the Rice Street and Cannon Farm Road project (W-5709E) in FY 24. The twenty-first project modification is to delay construction to FY 24 for the Old Salisbury Road/Irish Potato Road safety improvements (W-5710AO). The twenty-second project modification is the cost increases to the North Main Street improvements (U-6062). The twenty-third project modification is the project break for the Robinson Church Road/Peach Orchard Road improvements (HS-2010R). The twenty-fourth project modification is the project break for the NC 49/Old Airport Road U-turn bulbout (HS-2010Q). The twenty-fifth project modification is the project break for the NC 49/US 601 rumble strips (HS-2010P). The twenty-sixth project modification is the project break for the NC 73 rumble strips (HS-2010O). The twenty-seventh project modification is the delay of right-of-way to FY 24 for the Little Texas Road sidewalk (EB-5844). The twenty-eighth project modification is the delay of right-of-way to FY 24 for the US 601/Flowers Store Road intersection improvements (C-5603I). The final project modification is the project additional related to a federal grant for pedestrian safety elements such as countdown signal heads, crosswalks, etc. (BO-2419) Attachment 3 is a resolution modifying the MTIP for these projects. The new STIP was adopted in June and was effective October 1, 2023.

**ACTION/RECOMMENDATION:** 1) Receive a report on modification #1 to the FY 2024-2033 MTIP; 2) Discuss; and 3) Recommend that the TAC consider endorsing modification #1 to the FY 2024-2033 MTIP.

**4) Rider Transit Program of Projects (POP) Phil Conrad**

**INFORMATION:** The Program of Projects is a list of proposed FTA grant requests to support the operations of Rider Transit in Fiscal Year 2024. Rider has elected to use the MPO Public Involvement procedures to process this annual requirement. Attachment 4 is the POP.

**ACTION/RECOMMENDATION:** 1) Receive a report on Rider Transit's Program of Projects (POP); 2) Discuss; and 3) Request that the TAC consider releasing the POP for public comment.

**5) Performance-Based Planning: Safety Targets Brian Murphy**

**INFORMATION:** The federal transportation legislation requires that State DOTs and MPOs adopt performance-based planning as a component of the metropolitan transportation planning process. The NCDOT has released the next round of safety targets for North Carolina and it is up to each MPO to either adopt these targets or devise their own targets. The proposed safety targets were published on the MPO's website. A draft resolution in support of the new safety targets for 2024 is included as attachment 5.

**ACTION/RECOMMENDATION:** 1) Receive a report on the NCDOT Safety Targets; 2) Discuss; and 3) Recommend that the TAC consider releasing the Safety Targets for public comment.

**6) Metrolina Regional Model Update** **Martin Kinnamon**

**INFORMATION:** The Cabarrus-Rowan MPO is currently one of four MPO's in the proposed non-attainment Metrolina/Charlotte Region. The MPO will be working on projecting population and employment for the 3 horizon years in the Metrolina Regional Model: 2025, 2035, 2045, and 2055. A summary of the projections is included as Table 1 and Table 2.

**ACTION / RECOMMENDATION:** 1) Receive a report on the Socioeconomic Projections; 2) Discuss; and 3) Recommend that the TAC consider endorsing the socioeconomic projections for Cabarrus and Rowan Counties.

**7) Reports / MPO Business** **Phil Conrad / TCC Members**

- Local Reports – MPO/NCDOT Division 9 & 10/TPD
- Division 10 P7.0 List and Funding Scenario for P7.0
- RCI Letter of Support – Division 10
- CMAQ Program Update – TPD Policy for Non-Federal Match
- Special Study Update – Town of China Grove
- Pennies for Progress – Union County
- 2020 Census Smoothed Planning Boundary
- Cabarrus County MicroTransit Grant Award
- Bike and Ped Demonstration Planning Studies
- MPO Newsletter Topics

**8) Informational Items** **Phil Conrad**

- Rider Transit, Salisbury Transit, and MTC Ridership
- CRAFT Meeting Minutes

**Next scheduled meeting: November 15, 2023**

- Agenda items for November TCC meeting

MINUTES

TECHNICAL COORDINATING COMMITTEE

Wednesday, August 16, 2023

VIRTUAL MEETING

Members:

Phillip Graham	City of Concord
Susie Morris	Cabarrus County
Ed Muire	Rowan County & Town of Cleveland
Sean Epperson	NCDOT Div. 10
Mallory Hodgson	Town of Harrisburg
Fred Haith	NCDOT Div. 9
Jason Hord	Town of Granite Quarry
Richard Smith	City of Kannapolis
Franklin Gover	Town of China Grove
Steve Blount	Town of Spencer

Others:

Phil Conrad	CRMPO Director
Connie Cunningham	MPO Staff
Loretta Barren	FHWA
Andy Christy	CK RIDER
Phil Collins	Cabarrus Co
Roger Castillo	NCDOT TPD
Alex Rotenberry	NCDOT IMD
Andy Bailey	NCDOT TPD
Wendy Miller	MPO Staff
Caitlin Higgins	Talbert, Bright & Ellington
Andy Shook	Talbert, Bright & Ellington

TCC Chairman Richard Smith called the August 16, 2023 meeting of the Cabarrus Rowan MPO TCC to order. Chairman Smith called the roll of eligible TCC members and determined that a quorum was met. Chairman Smith then asked if there were any adjustments to the meeting agenda. With none heard, Chairman Smith continued by asking if there were any speakers from the floor. With no speakers being heard, TCC Chairman Smith moved to the next item of business.

**Approval of Minutes**

Chairman Smith called the TCC members' attention to the minutes of the May 17, 2023 TCC meeting included in their meeting packets. TCC Chairman Smith asked if there were any corrections or additions to the minutes. With no corrections or additions heard, Mr. Ed Muire made a motion to approve the minutes as presented. Mr. Steve Blount seconded the motion and the TCC members voted unanimously to approve. TCC Chairman Smith then made a request that in the future anyone attending the TCC meetings as a request from the City of Kannapolis should be shown as from the City of Kannapolis instead of Town of Kannapolis. CRMPO staff said the change would be effective immediately.

**FY 2020-2029 MTIP Modification #19**

CRMPO Director Phil Conrad called upon CRMPO Staff Planner Wendy Miller to provide information to the TCC members regarding this item. Staff Planner Miller reported to the TCC members that sometimes staff will bring amendments or modifications from recent NCDOT Board of Transportation agendas to the TCC and TAC for consideration. Staff Planner Miller continued by stating that the first project modification was the addition of preliminary engineering for the

Clarke Creek Greenway in FY 23 (BL-0060). The second project modification is the addition of the Concord Signal System project in FY 2024 (HE-0123). The third project modification is to add a project break for the Vulnerable Road User Pedestrian Bicycle Improvement Program in FY 23 for (HS-2024DIV) and (HS-2024REG) and (HS-2024SW) and (HS-2025DIV) and (HS-2025REG) and (HS-2025SW). The final project is to delay professional engineering to FY 23 for the Brenner Avenue Safety Improvements (HL-0049).

Staff Planner Miller called members' attention to Attachment 3 which was a resolution modifying the MTIP for these projects. She continued by stating that the new STIP was adopted in June and will be effective October 1, 2023.

With no questions and comments, Mr. Phillip Graham made a motion to recommend that the CRMPO TAC consider endorsing modification #19 to the FY 2020-2029 MTIP. Mr. Steve Blount seconded the motion and the TCC members voted unanimously to approve.

### **FY 2024-2027 TIP Conformity**

CRMPO Director Conrad reminded the TCC members that the Cabarrus-Rowan MPO and the Metrolina Regional Partners have been working on an Air Quality Conformity Analysis and Determination Report for the 2024-2027 TIP. Director Conrad explained that the TIP Conformity Report demonstrates that the financially constrained MTPs in the Metrolina Region meet national ambient air quality standards. He went on to call TCC members' attention to an explanation of the fiscal constraint prologue which was included as attachment 4A.

The report Director Conrad explained, also certifies that the Transportation Improvement Program is a subset of the 2050 MTP and the Conformity Report is consistent with the State Implementation Plan (SIP). He also called attention to Attachment 4B which was an excerpt from the TIP Conformity Report. Director Conrad reviewed the excerpt in detail for the TCC members and called attention to the fact that the Poplar Tent Road widening project and the rail project in Salisbury had been delayed for one year and the North Main Street sidewalk project has been delayed by six years.

After all discussion, and with no questions or comments being heard, Mrs. Susie Morris made a motion to recommend that the CRMPO TAC consider adopting the Air Quality Conformity Analysis and Determination for the 2024-2027 as well as the supporting financial information for the STIP. Mr. Ed Muire seconded that motion and the TCC members voted unanimously to approve.

### **FY 2023-2024 UPWP Amendment #1**

CRMPO Director Conrad explained that the CRMPO currently has some special study funds that have not been assigned. At that time CRMPO Director Phil Conrad called upon Mr. Franklin Gover from the Town of China Grove to present this item to the TCC members. Mr. Gover reported that the Town of China Grove is requesting \$48,000 in special study funds for a corridor study of NC 152 east. Mr. Gover explained the the Town would be responsible for the remaining 20 percent local match (\$12,000) for their proposed project.

With no questions or comments heard, Director Conrad called members' attention to Attachment #5 which was a draft resolution to amend the UPWP and increase the line item for "Special Studies" (II-B-3) by \$48,000.

After review, Director Conrad asked for any questions or comments. With none heard, Mr. Ed Muire made a motion to recommend that the CRMPO TAC consider adopting Amendment #1 to the 2023-2024 UPWP. Mrs. Susie Morris seconded that motion and the TCC members voted unanimously to approve.

### **Federal Certification Review**

Director Conrad reported to the TCC members that since the CRMPO is a federal designated Transportation Management Area (TMA), the Cabarrus-Rowan MPO is required to participate in a Federal Certification review regularly. He went on to explain that this review is conducted by the FHWA and certifies whether the CRMPO has a valid transportation planning process. The FHWA conducted the most recent review on February 27th. Part of the requirement was for FHWA staff to complete a desk audit in advance of the review.

At that time Director Conrad introduced Mrs. Loretta Barren with Federal Highway Administration who provided an explanation of the need and requirements of the Certification Review process. She provided information specifically about the CRMPO review. Mrs. Barren thanked the CRMPO staff for the hard work they did, in preparing for the review and during the review. Director Conrad called members' attention to a summary of the findings of this review and a corresponding executive summary included in their TCC packets as attachment 6. Director Conrad asked the members if there were any questions or comments. With none being heard, Director Conrad thanked Mrs. Barren and other team members.

### **RIDER Public Transportation Agency Safety Plan**

Director Conrad reported to the TCC members that the Public Transportation Agency Safety Plan (PTASP) final rule (49 C.F.R. Part 673) requires certain operators of public transportation systems that are recipients or subrecipients of FTA grant funds to develop safety plans that include the processes and procedures necessary for implementing Safety Management Systems (SMS).

Director Conrad explained that on December 16, 2019, the Concord Kannapolis Area Transit/City of Concord notified NCDOT that they would not be drafting and certifying its own Public Transportation Agency Safety Plan. Instead, they chose to certify their Public Transportation Agency Safety Plan under NCDOT's framework and requirements as they are allowed by FTA to do as a small (less than 100 bus) public transportation provider. Director Conrad reported that the safety plan was approved by the Concord Kannapolis Area Transit Commission on August 2, 2023, and will go to the Concord City Council for approval following action by the CRMPO. The CRMPO is being asked to review and approve the safety plan.

Mr. Andy Christy with the RIDER Transit System addressed the TCC members stating that the safety plan is an annual federal requirement. He offered to answer questions, but none were heard.

In closing, CRMPO Director Conrad stated that a request for approval by NCDOT is the last step prior to final certification. He went on to state that The PTASP (309 pages) can be found at

[www.ckrider.com/resources/documents](http://www.ckrider.com/resources/documents). With no questions or comments heard, Mr. Phillip Graham made a motion to recommend that the CRMPO TAC consider approving the RIDER Public Transportation Agency Safety Plan. Mrs. Susie Morris seconded that motion and the TCC members voted unanimously to approve.

## **Reports/CRMPO Business**

Director Phil Conrad addressed the members and made a request to move topic number 3 to the head of the list due to time constraints in schedules. By consensus the TCC members approved.

**1. Local Reports – MPO/NCDOT Division 9 and 10/PTD-** Mr. Fred Haith, NCDOT Division 9 representative reported to the TCC members that the updated spreadsheet was included in today's meeting packet. He informed the members that if they had any questions, to please email them to him and he would get them the information they need. Mr. Phillip Craver with Division 9 addressed the TCC members and reviewed four projects from the spreadsheet.

Mr. Sean Epperson , NCDOT Division 10 representative called the TCC members' attention to a spreadsheet of Division 10 project updates and highlighted some of the ongoing projects in Division 10. He specifically called attention to the Stough Road and Old Airport Road projects.

Mr. Alex Rotenberry with NCDOT IMD reported to the TCC members that the IMD division at NCDOT has quarterly webinars available to provide members assistance and information. He went on to report that NCDOT will be a co-sponsor for the 2023 NC Bike & Walk Transportation Summit being held in Salisbury on September 14-16, 2023 at Catawba College. MPO staff intends to participate in this Summit.

Mr. Roger Castillo with NCDOT TPD reviewed the TPD Newsletter.

**2. CMAQ Program Update** – Director Conrad reported that applications for CMAQ projects should be submitted to NCDOT by September 30<sup>th</sup> and that the CRMPO had received three applications already.

**3. P7.0 Update** - Director Conrad reported that CRMPO is being asked to submit two project proposals. The first project would assist the City of Salisbury with the Western North Carolina Rail Passenger Service between Asheville and Salisbury. This project would be install and operate an Asheville to Salisbury passenger service along the Norfolk Southern AS-Line for about 139 miles. Mrs. Wendy Brindle with the City of Salisbury provided members with information on the project.

The second project for consideration was a 5000 ft parallel taxiway at the Mid-Carolina Regional Airport. Project managers Andy Shook and Caitlin Higgins provided members with information on this project.

After reviewing both projects and with little discussion, CRMPO TCC Chair Richard Smith made a motion to recommend that the CRMPO TAC consider supporting and approving the

inclusion of both projects into P7.0. Mr. Ed Muire seconded the motion and the TCC members voted unanimously to approve.

**4. Rowan Transit System Section 5310 Grant Application Letter of Support –**

Director Phil Conrad reported to the TCC members that Rowan County is seeking a letter of support from the CRMPO regarding their request for Federal Section 5310 funding. This funding would enable Rowan County to continue to provide transportation for elderly and disabled citizens. With no questions or discussion, Mr. Ed Muire made a motion to recommend that the CRMPO TAC provide a letter of support for Rowan County as they seek Section 5310 funds. TCC Chair Richard Smith seconded that motions and the members voted unanimously to approve.

**5 Special Studies Closeouts – Rowan County and Town of China Grove Special Studies Updates**

- Director Conrad requested updates from the respective jurisdictions on their projects. Mr. Ed Muire with Rowan County reported that Rowan County and the Town of West Spencer have reviewed the draft study. Mr. Muire also reported that a NCDOT workshop will be held later this month and that public comments will be solicited after the workshop. Mr. Franklin Gover with the Town of China Grove reported that their Main Street Corridor Study is complete.

**6. 2020 Census Planning Boundary Schedule**

– CR MPO Director Phil Conrad provided the members with a power point presentation on the Planning Boundary Schedule. He provided some background information on the US Census and explained in detail the potential issues in setting these boundaries. He also reviewed the current MOU. He closed in requesting direction from the TCC members as to whether or not to update the current MOU or to continue with status quo. At that time, Mr. Phillip Graham made a motion to recommend that the CR MPO TAC consider remaining status quo in regard to the CR MPO MOU. TCC Chair Richard Smith seconded that motion and the TCC members voted unanimously in favor.

**7. Bike and Ped Planning Update**

– Director Conrad reported to the members that CRMPO staff are currently developing a potential plans/study list that would increase bicycle and pedestrian safety issues. The plans would concentrate on intersection safety, complete streets projects, and identifying key safety needs.

**Informational Items**

Director Conrad called attention to the following informational items included in their packets:

- RIDER Transit, Salisbury Transit and MTC Ridership
- TPD Newsletter
- CRAFT Meeting Minutes

Director Conrad relayed to members information provided by the Cabarrus County Chamber. The Chamber will be holding their Regional Infrastructure Summit on September 15, 2023 at the Cabarrus County Milestone Building.

Mrs. Loretta Barren reminded members that the MPDG grant submittal ending date is August 21, 2023 and the final date for the federal Tribal Assistance Program is September 28, 2023.

**Next scheduled meeting September 20, 2023**

With no further business to discuss, TCC Chairman Richard Smith adjourned the meeting.

RESOLUTION ADOPTING MODIFICATION #1 TO THE CABARRUS-ROWAN  
METROPOLITAN TRANSPORTATION IMPROVEMENT PROGRAM FOR FY 2024-2033

**WHEREAS**, the Metropolitan Transportation Improvement Program (MTIP) is a staged multiple year listing of all federally funded transportation projects scheduled for implementation within the Cabarrus-Rowan 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 Transportation Advisory Committee (TAC); and

**WHEREAS**, the Transportation Advisory Committee has reviewed the current FY 2024-2033 Transportation Improvement Program, dated October 1, 2023, and found the need to modify it;

**WHEREAS**, the following attached modification has been proposed.

**WHEREAS**, Projects listed in the MTIP are also included in the State TIP (STIP) and balanced against anticipated revenues as identified in the STIP; and

**WHEREAS**, the Metropolitan Transportation Plan has a planning horizon year of 2050, and meets all the requirements in 23 CFR 450; and

**WHEREAS**, the Transportation Advisory Committee has found that the Transportation Improvement Program conforms to the purpose of the North Carolina State Implementation Plan (*or interim emissions tests in areas where no SIP is approved or found adequate*) for maintaining the National Ambient Air Quality Standards in accordance with 40 CFR 51 & 93; and

**WHEREAS**, the Transportation Advisory Committee has determined that the proposed modification is exempt from the requirements for determining air quality conformity in accordance with 40 CFR 93.127.

**NOW THEREFORE**, be it resolved by the Cabarrus-Rowan Urban Area Transportation Advisory Committee that the FY 2024-2033 Metropolitan Transportation Improvement Program dated October 1, 2023, for the Cabarrus Rowan Urban Area Metropolitan Planning Organization be modified as listed above on this the 25th day of October, 2023.

I, Ryan Dayvault, Transportation Advisory Committee Chair, do hereby certify that the above is a true and correct copy of the excerpt from the minutes of a meeting of the Cabarrus-Rowan Transportation Advisory Committee, duly held on the 25th day of October 2023.

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Ryan Dayvault, Chair  
Transportation Advisory Committee

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

STATEWIDE PROJECT

STIP ADDITIONS

* HM-9999 STATEWIDE	- STATEWIDE PROJECT	VARIOUS, MUNICIPAL BRIDGE INSPECTION PROGRAM. IMPLEMENTATION <u>ADD PROJECT AT THE REQUEST OF THE STRUCTURES MANAGEMENT UNIT.</u>		FY 2024 - \$1,000,000 (BGOFF) FY 2025 - \$1,000,000 (BGOFF) FY 2026 - \$1,000,000 (BGOFF) FY 2027 - \$1,000,000 (BGOFF) FY 2028 - \$1,000,000 (BGOFF) FY 2029 - \$1,000,000 (BGOFF) FY 2030 - \$1,000,000 (BGOFF) FY 2031 - \$1,000,000 (BGOFF) FY 2032 - \$1,000,000 (BGOFF) FY 2033 - \$1,000,000 (BGOFF) AFTER FY 2033 - <u>\$4,000,000</u> (BGOFF) \$14,000,000
* HS-2015DIV STATEWIDE PROJ.CATEGORY DIVISION	- STATEWIDE PROJECT	VARIOUS, VULNERABLE ROAD USER PEDESTRIAN / BICYCLE IMPROVEMENT PROGRAM EXCLUDING GRAND STRAND MPO. <u>ADD PROJECT AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	CONSTRUCTION	FY 2024 - <u>\$2,100,000</u> (VRU) \$2,100,000
* HS-2015REG STATEWIDE PROJ.CATEGORY REGIONAL	- STATEWIDE PROJECT	VARIOUS, VULNERABLE ROAD USER PEDESTRIAN / BICYCLE IMPROVEMENT PROGRAM EXCLUDING GRAND STRAND MPO. <u>ADD PROJECT AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	CONSTRUCTION	FY 2024 - <u>\$2,100,000</u> (VRU) \$2,100,000
* HS-2015SW STATEWIDE PROJ.CATEGORY STATEWIDE	- STATEWIDE PROJECT	VARIOUS, VULNERABLE ROAD USER PEDESTRIAN / BICYCLE IMPROVEMENT PROGRAM EXCLUDING GRAND STRAND MPO. <u>ADD PROJECT AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	CONSTRUCTION	FY 2024 - <u>\$2,800,000</u> (VRU) \$2,800,000

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

STATEWIDE PROJECT

STIP ADDITIONS

HS-2420DIV STATEWIDE PROJ.CATEGORY DIVISION	- STATEWIDE PROJECT	VARIOUS, SIGNAL RETIMING AND SIGNAL OPERATIONS SOFTWARE TO IMPROVE SAFETY. <u>ADD PROJECT AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	ENGINEERING	FY 2024 - \$8,500,000 (T) FY 2025 - \$8,500,000 (T) FY 2026 - \$8,500,000 (T) FY 2027 - \$8,500,000 (T) FY 2028 - \$8,500,000 (T) FY 2029 - <u>\$8,500,000 (T)</u> \$51,000,000
HS-2420REG STATEWIDE PROJ.CATEGORY REGIONAL	- STATEWIDE PROJECT	VARIOUS, SIGNAL RETIMING AND SIGNAL OPERATIONS SOFTWARE TO IMPROVE SAFETY. <u>ADD PROJECT AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	ENGINEERING	FY 2024 - \$8,500,000 (T) FY 2025 - \$8,500,000 (T) FY 2026 - \$8,500,000 (T) FY 2027 - \$8,500,000 (T) FY 2028 - \$8,500,000 (T) FY 2029 - <u>\$8,500,000 (T)</u> \$51,000,000
HS-2420SW STATEWIDE PROJ.CATEGORY STATEWIDE	- STATEWIDE PROJECT	VARIOUS, SIGNAL RETIMING AND SIGNAL OPERATIONS SOFTWARE TO IMPROVE SAFETY. <u>ADD PROJECT AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	ENGINEERING	FY 2024 - \$8,500,000 (T) FY 2025 - \$8,500,000 (T) FY 2026 - \$8,500,000 (T) FY 2027 - \$8,500,000 (T) FY 2028 - \$8,500,000 (T) FY 2029 - <u>\$8,500,000 (T)</u> \$51,000,000
HS-2421DIV STATEWIDE PROJ.CATEGORY DIVISION	- STATEWIDE PROJECT	VARIOUS, SAFETY MANAGEMENT PROGRAM, PROJECT IDENTIFICATION, ANALYSIS AND PRELIMINARY ENGINEERING. <u>ADD PROJECT AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	ENGINEERING	FY 2024 - \$15,000,000 (T) FY 2025 - \$15,000,000 (T) FY 2026 - \$15,000,000 (T) FY 2027 - \$15,000,000 (T) FY 2028 - \$15,000,000 (T) FY 2029 - <u>\$15,000,000 (T)</u> \$90,000,000

\* INDICATES FEDERAL AMENDMENT

**REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM**

STATEWIDE PROJECT

**STIP ADDITIONS**

HS-2421REG	- STATEWIDE PROJECT	VARIOUS, SAFETY MANAGEMENT PROGRAM,	ENGINEERING	FY 2024 -	\$15,000,000	(T)
STATEWIDE		PROJECT IDENTIFICATION, ANALYSIS AND		FY 2025 -	\$15,000,000	(T)
PROJ.CATEGORY		PRELIMINARY ENGINEERING.		FY 2026 -	\$15,000,000	(T)
REGIONAL		<u>ADD PROJECT AT THE REQUEST OF THE</u>		FY 2027 -	\$15,000,000	(T)
		<u>TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>		FY 2028 -	\$15,000,000	(T)
				FY 2029 -	\$15,000,000	(T)
					\$90,000,000	
HS-2421SW	- STATEWIDE PROJECT	VARIOUS, SAFETY MANAGEMENT PROGRAM,	ENGINEERING	FY 2024 -	\$15,000,000	(T)
STATEWIDE		PROJECT IDENTIFICATION, ANALYSIS AND		FY 2025 -	\$15,000,000	(T)
PROJ.CATEGORY		PRELIMINARY ENGINEERING.		FY 2026 -	\$15,000,000	(T)
STATEWIDE		<u>ADD PROJECT AT THE REQUEST OF THE</u>		FY 2027 -	\$15,000,000	(T)
		<u>TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>		FY 2028 -	\$15,000,000	(T)
				FY 2029 -	\$15,000,000	(T)
					\$90,000,000	
HS-2422DIV	- STATEWIDE PROJECT	VARIOUS, HIGHWAY SYSTEM DATA COLLECTION.	ENGINEERING	FY 2024 -	\$5,000,000	(T)
STATEWIDE		<u>ADD PROJECT AT THE REQUEST OF THE</u>		FY 2025 -	\$5,000,000	(T)
PROJ.CATEGORY		<u>TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>		FY 2026 -	\$5,000,000	(T)
DIVISION				FY 2027 -	\$5,000,000	(T)
				FY 2028 -	\$5,000,000	(T)
				FY 2029 -	\$5,000,000	(T)
				FY 2030 -	\$5,000,000	(T)
				FY 2031 -	\$5,000,000	(T)
				FY 2032 -	\$5,000,000	(T)
				FY 2033 -	\$5,000,000	(T)
					\$50,000,000	

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

STATEWIDE PROJECT

STIP ADDITIONS

HS-2422REG	- STATEWIDE PROJECT	VARIOUS, HIGHWAY SYSTEM DATA COLLECTION.	ENGINEERING	FY 2024 -	\$5,000,000	(T)
STATEWIDE		<u>ADD PROJECT AT THE REQUEST OF THE</u>		FY 2025 -	\$5,000,000	(T)
PROJ.CATEGORY		<u>TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>		FY 2026 -	\$5,000,000	(T)
REGIONAL				FY 2027 -	\$5,000,000	(T)
				FY 2028 -	\$5,000,000	(T)
				FY 2029 -	\$5,000,000	(T)
				FY 2030 -	\$5,000,000	(T)
				FY 2031 -	\$5,000,000	(T)
				FY 2032 -	\$5,000,000	(T)
				FY 2033 -	<u>\$5,000,000</u>	(T)
					\$50,000,000	
HS-2422SW	- STATEWIDE PROJECT	VARIOUS, HIGHWAY SYSTEM DATA COLLECTION.	ENGINEERING	FY 2024 -	\$5,000,000	(T)
STATEWIDE		<u>ADD PROJECT AT THE REQUEST OF THE</u>		FY 2025 -	\$5,000,000	(T)
PROJ.CATEGORY		<u>TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>		FY 2026 -	\$5,000,000	(T)
STATEWIDE				FY 2027 -	\$5,000,000	(T)
				FY 2028 -	\$5,000,000	(T)
				FY 2029 -	\$5,000,000	(T)
				FY 2030 -	\$5,000,000	(T)
				FY 2031 -	\$5,000,000	(T)
				FY 2032 -	\$5,000,000	(T)
				FY 2033 -	<u>\$5,000,000</u>	(T)
					\$50,000,000	
SM-6215DIV	- STATEWIDE PROJECT	VARIOUS, SCHOOL TRAFFIC ANALYSIS FOR NEW,	ENGINEERING	FY 2024 -	\$1,000,000	(T)
STATEWIDE		RELOCATED AND EXPANDING SCHOOLS.		FY 2025 -	\$1,000,000	(T)
PROJ.CATEGORY		<u>ADD PROJECT AT THE REQUEST OF THE</u>		FY 2026 -	\$1,000,000	(T)
DIVISION		<u>TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>		FY 2027 -	\$1,000,000	(T)
				FY 2028 -	\$1,000,000	(T)
				FY 2029 -	<u>\$1,000,000</u>	(T)
					\$6,000,000	

\* INDICATES FEDERAL AMENDMENT

**REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM**

STATEWIDE PROJECT

**STIP ADDITIONS**

SM-6215REG	- STATEWIDE PROJECT	VARIOUS, SCHOOL TRAFFIC ANALYSIS FOR NEW, RELOCATED AND EXPANDING SCHOOLS.	ENGINEERING	FY 2024 -	\$1,000,000	(T)
STATEWIDE				FY 2025 -	\$1,000,000	(T)
PROJ.CATEGORY		<u>ADD PROJECT AT THE REQUEST OF THE</u>		FY 2026 -	\$1,000,000	(T)
REGIONAL		<u>TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>		FY 2027 -	\$1,000,000	(T)
				FY 2028 -	\$1,000,000	(T)
				FY 2029 -	<u>\$1,000,000</u>	(T)
					\$6,000,000	

SM-6215SW	- STATEWIDE PROJECT	VARIOUS, SCHOOL TRAFFIC ANALYSIS FOR NEW, RELOCATED AND EXPANDING SCHOOLS.	ENGINEERING	FY 2024 -	\$1,000,000	(T)
STATEWIDE				FY 2025 -	\$1,000,000	(T)
PROJ.CATEGORY		<u>ADD PROJECT AT THE REQUEST OF THE</u>		FY 2026 -	\$1,000,000	(T)
STATEWIDE		<u>TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>		FY 2027 -	\$1,000,000	(T)
				FY 2028 -	\$1,000,000	(T)
				FY 2029 -	<u>\$1,000,000</u>	(T)
					\$6,000,000	

**STIP MODIFICATIONS**

* HO-0010B	- STATEWIDE PROJECT	IMPLEMENT STATEWIDE TRAFFIC OPERATIONS ACTIVITIES SUCH AS TRAFFIC MANAGEMENT CENTERS, TRAVELER INFORMATION, INTELLIGENT TRANSPORTATION SYSTEMS (ITS), AND TRAFFIC INCIDENT AND EVENT MANAGEMENT ACROSS THE ENTIRE STATE.	IMPLEMENTATION	FY 2024 -	\$22,228,000	(CMAQ)
STATEWIDE				FY 2024 -	\$4,000,000	(CRPANY)
PROJ.CATEGORY				FY 2024 -	\$6,557,000	(S(M))
EXEMPT				FY 2025 -	\$25,583,000	(CMAQ)
				FY 2025 -	\$4,000,000	(CRPANY)
				FY 2025 -	\$7,396,000	(S(M))
		<u>ADD CMAQ FUNDING IN FY 24, FY 25, AND FY 26. COST</u>		FY 2026 -	\$26,765,000	(CMAQ)
		<u>INCREASE EXCEEDING \$2 MILLION AND 25%</u>		FY 2026 -	<u>\$6,691,000</u>	(S(M))
		<u>THRESHOLDS.</u>			\$103,220,000	

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

STATEWIDE PROJECT

STIP MODIFICATIONS

M-556 STATEWIDE PROJ.CATEGORY STATEWIDE	- STATEWIDE PROJECT	ADVANCED RIGHT-OF-WAY ACQUISITION ACCOUNT. REVOLVING ACCOUNT TO FUND ADVANCED RIGHT-OF- WAY ACQUISITION. FUNDS TO BE REPAID FROM THE STIP PROJECT AT THE TIME THE PROJECT IS FUNDED. <u>ADD RIGHT-OF-WAY FUNDS IN FY 24 NOT PREVIOUSLY PROGRAMMED.</u>	RIGHT-OF-WAY	FY 2024 - <u>\$1,000,000</u> (T) \$1,000,000
TO-0004 STATEWIDE PROJ.CATEGORY PUBLIC TRANS	- STATEWIDE PROJECT	STATEWIDE, SYSTEM SAFETY OVERSIGHT GRANT FOR NCDOT RAIL DIVISION. <u>MODIFY FUNDS IN FY 24 AT THE REQUEST OF INTEGRATED MOBILITY DIVISION.</u>	ADMINISTRATIVE	FY 2024 - \$600,000 (S) FY 2024 - <u>\$1,800,000</u> (SSO) \$2,400,000

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP ADDITIONS

* BO-2419	- HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION	VARIOUS, CONSTRUCT PEDESTRIAN COUNTDOWN SIGNAL HEADS, CROSSWALKS, AND ACCESSIBLE ROUTES AT SIGNALIZED INTERSECTIONS IN 15 MUNICIPALITIES.	ENGINEERING	FY 2024 -	\$1,031,000	(DP)
BEAUFORT				FY 2024 -	\$344,000	(HSIP)
CHATHAM	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION			FY 2024 -	\$34,000	(S)
DAVIDSON			RIGHT-OF-WAY	FY 2025 -	\$89,000	(DP)
GRANVILLE	- TRIANGLE AREA RURAL PLANNING ORGANIZATION	<u>ADD PROJECT DUE TO AWARD OF FEDERAL GRANT. DP FUNDS REPRESENT FEDERAL RAISE GRANT FUNDS. S FUNDS REPRESENT SPOT SAFETY PROGRAM FUNDS.</u>		FY 2025 -	\$30,000	(HSIP)
HALIFAX				FY 2025 -	\$3,000	(S)
JOHNSTON	- MID-EAST RURAL PLANNING ORGANIZATION		UTILITIES	FY 2025 -	\$89,000	(DP)
LENOIR				FY 2025 -	\$30,000	(HSIP)
RICHMOND	- EASTERN CAROLINA RURAL PLANNING ORGANIZATION			FY 2025 -	\$3,000	(S)
ROBESON			CONSTRUCTION	FY 2025 -	\$7,791,000	(DP)
ROWAN	- PEANUT BELT RURAL PLANNING ORGANIZATION			FY 2025 -	\$2,596,000	(HSIP)
VANCE				FY 2025 -	\$260,000	(S)
WILSON	- KERR TAR RURAL PLANNING ORGANIZATION					\$12,300,000
PROJ.CATEGORY	- UPPER COASTAL PLAIN RURAL PLANNING ORGANIZATION					
DIVISION	- LUMBER RIVER RURAL PLANNING ORGANIZATION					
* HL-0123	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	UPGRADE SOFTWARE FOR CONCORD CITYWIDE SIGNAL SYSTEM.	ENGINEERING	FY 2024 -	\$800,000	(CRPDA)
CABARRUS				FY 2024 -	\$200,000	(L)
PROJ.CATEGORY		<u>ADD PROJECT AT THE REQUEST OF THE MPO.</u>	CONSTRUCTION	FY 2025 -	\$400,000	(CRPDA)
EXEMPT				FY 2025 -	\$100,000	(L)
						\$1,500,000

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

AV-5892 CABARRUS PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	CONCORD REGIONAL AIRPORT (JQF), CONSTRUCT NORTH APRON EXPANSION. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 23 TO FY 24.</u>	CONSTRUCTION	FY 2024 - \$300,000 (T) FY 2024 - <u>\$1,870,000</u> (O) \$2,170,000
* BL-0087 CABARRUS PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	VARIOUS, ELM AVENUE NORTHWEST FROM GLENN STREET NORTHWEST TO ALEXANDER STREET NORTHWEST. GLENN STREET NORTHWEST FROM ELM AVENUE NORTHWEST TO ACADEMY AVENUE NORTHWEST. CROWELL DRIVE NORTHWEST FROM CLEARWATER ARTS CENTER DRIVEWAY TO CEDAR DRIVE NORTHWEST. CEDAR DRIVE NORTHWEST FROM GEORGIA STREET NORTHWEST TO BEECH STREET NORTHWEST. CONSTRUCT SIDEWALKS. <u>ADD PRELIMINARY ENGINEERING NOT PREVIOUSLY PROGRAMMED.</u>	ENGINEERING CONSTRUCTION	FY 2024 - \$8,000 (TADA) FY 2024 - \$2,000 (L) FY 2024 - \$1,292,000 (TADA) FY 2024 - <u>\$323,000</u> (L) \$1,625,000
* C-5603F CABARRUS PROJ.CATEGORY EXEMPT	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	SR 1643 (BETHPAGE ROAD), SR 1008 (SOUTH MAIN STREET) TO LEONARD AVENUE AND FROM WESTGREEN DRIVE TO KLONDALE AVENUE IN KANNAPOLIS. CONSTRUCT SIDEWALKS. <u>COST INCREASE EXCEEDING \$2 MILLION AND 25% THRESHOLDS. TO ALLOW ADDITIONAL TIME FOR UTILITY RELOCATION, DELAY CONSTRUCTION FROM FY 24 TO FY 25.</u>	CONSTRUCTION	FY 2025 - \$1,892,000 (CMAQ) FY 2025 - <u>\$473,000</u> (L) \$2,365,000
* EB-5619B ROWAN PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	GRANTS CREEK GREENWAY, CATAWBA COLLEGE AND MEADOWBROOK NEIGHBORHOOD TO WILTSHIRE VILLAGE. CONSTRUCT MULTIUSE PATH. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 23 TO FY 24.</u>	CONSTRUCTION	FY 2024 - \$1,151,000 (BGDA) FY 2024 - <u>\$288,000</u> (L) \$1,439,000

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* EB-5619C ROWAN PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	GRANTS CREEK GREENWAY, WILTSHIRE VILLAGE TO KELSEY SCOTT PARK. CONSTRUCT MULTIUSE PATH. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 23 TO FY 24.</u>	ENGINEERING  CONSTRUCTION	FY 2024 - \$294,000 (BGDA) FY 2024 - \$74,000 (L) FY 2024 - \$1,882,000 (BGDA) FY 2024 - \$470,000 (L) \$2,720,000
HE-0009 ROWAN PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NC 152, WIDEN PAVEMENT AND CONSTRUCT ROUNDAABOUT AT THE INTERSECTION WITH PROPOSED ACCESS ROAD EAST OF I-85 / US 601 IN CHINA GROVE. <u>COST INCREASE EXCEEDING \$2 MILLION AND 25% THRESHOLDS.</u>	CONSTRUCTION	FY 2024 - \$63,000 (T) FY 2025 - \$4,680,000 (T) FY 2026 - \$1,557,000 (T) \$6,300,000
* HL-0001 CABARRUS PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	SR 1394 (POPLAR TENT ROAD), SR 1449 (HARRIS ROAD) INTERSECTION. CONSTRUCT INTERSECTION IMPROVEMENT. SR 1394 (POPLAR TENT ROAD) FROM SR 2880 (MOSS DRIVE) TO FULLERTON PLACE DRIVE. WIDEN TO FOUR LANES. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY RIGHT-OF-WAY FROM FY 23 TO FY 24.</u>	RIGHT-OF-WAY  CONSTRUCTION	FY 2024 - \$3,632,000 (BGANY) FY 2024 - \$784,000 (BGDA) FY 2024 - \$1,104,000 (L) FY 2025 - \$6,280,000 (BGDA) FY 2025 - \$1,570,000 (L) \$13,370,000
* HL-0049 ROWAN PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	BRENNER AVENUE, US 70 / US 601 (JAKE ALEXANDER BOULEVARD) TO MILFORD HILLS ROAD IN SALISBURY. CONSTRUCT MEDIAN; CONSTRUCT ROUNDAABOUT AT MILFORD HILLS ROAD. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY RIGHT-OF-WAY FROM FY 23 TO FY 24.</u>	RIGHT-OF-WAY  CONSTRUCTION	FY 2024 - \$11,000 (BGDA) FY 2024 - \$3,000 (L) FY 2024 - \$664,000 (BGDA) FY 2024 - \$166,000 (L) \$844,000

\* INDICATES FEDERAL AMENDMENT

**REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM**

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

**STIP MODIFICATIONS**

* HL-0064 ROWAN PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	US 29 MAIN STREET, KERR STREET TO HORAH STREET IN SALISBURY. SAFETY IMPROVEMENTS. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 24 TO FY 25. ADD PRELIMINARY ENGINEERING NOT PREVIOUSLY PROGRAMMED.</u>	ENGINEERING  UTILITIES  CONSTRUCTION	FY 2024 - \$8,000 (BGDA) FY 2024 - \$2,000 (L) FY 2024 - \$2,609,000 (BGDA) FY 2024 - \$652,000 (L) FY 2025 - \$4,817,000 (BGDA) FY 2025 - <u>\$1,204,000</u> (L) \$9,292,000
* HS-2009I ROWAN PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NC 152, NC 152 AT NC 153 NEAR CHINA GROVE. INTERSECTION IMPROVEMENTS. <u>ADD PROJECT AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	RIGHT-OF-WAY CONSTRUCTION	FY 2024 - \$20,000 (HSIP) FY 2024 - <u>\$302,000</u> (HSIP) \$322,000
* HS-2010M CABARRUS MECKLENBURG PROJ.CATEGORY STATEWIDE	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION - CHARLOTTE REGIONAL TRANSPORTATION PLANNING ORGANIZATION	I-85, I-77, I-277, I-485, AND US 74. INSTALL WRONG WAY PAVEMENT MARKINGS AND SIGNS. <u>ADD PROJECT BREAK AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	CONSTRUCTION	FY 2024 - <u>\$350,000</u> (HSIP) \$350,000

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

**STIP MODIFICATIONS**

* P-2918	- CHARLOTTE REGIONAL TRANSPORTATION PLANNING ORGANIZATION	PIEDMONT CORRIDOR, TRAIN 74 / 75 OPERATIONS BETWEEN CHARLOTTE AND RALEIGH, EQUIPMENT AND CAPITAL YARD MAINTENANCE FACILITY.	OPERATIONS	FY 2024 - \$7,226,000 (CMAQ)
ALAMANCE				FY 2024 - <u>\$1,806,000</u> (S)
CABARRUS	- CAPITAL AREA METROPOLITAN PLANNING ORGANIZATION	<u>COST INCREASE EXCEEDING \$2 MILLION AND 25% THRESHOLDS.</u>		\$9,032,000
DAVIDSON	- GREENSBORO URBAN AREA METROPOLITAN PLANNING ORGANIZATION			
DURHAM	- BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION			
GUILFORD	- DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION			
MECKLENBURG	- HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION			
ORANGE	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION			
RANDOLPH				
ROWAN				
WAKE				
PROJ.CATEGORY				
EXEMPT				

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

P-5719C ALAMANCE CABARRUS DAVIDSON DURHAM GUILFORD MECKLENBURG ORANGE ROWAN WAKE WAKE WAKE PROJ.CATEGORY REGIONAL	- GREENSBORO URBAN AREA METROPOLITAN PLANNING ORGANIZATION - CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION - BURLINGTON-GRAHAM URBAN AREA METROPOLITAN PLANNING ORGANIZATION - DURHAM-CHAPEL HILL-CARRBORO METROPOLITAN PLANNING ORGANIZATION - CHARLOTTE REGIONAL TRANSPORTATION PLANNING ORGANIZATION - HIGH POINT URBAN AREA METROPOLITAN PLANNING ORGANIZATION - CAPITAL AREA METROPOLITAN PLANNING ORGANIZATION	PIEDMONT CORRIDOR, NEW TRAINS AND MAINTENANCE FACILITY. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 23 TO FY 24. DP REPRESENTS STATE OF GOOD REPAIR GRANT.</u>	CONSTRUCTION	FY 2024 - \$156,888,000 (DP) FY 2024 - \$27,820,000 (T) FY 2025 - <u>\$27,820,000</u> (T) \$212,528,000
P-5726B ROWAN PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NORFOLK SOUTHERN, SALISBURY NORFOLK SOUTHERN CROSSOVER RELOCATION. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY CONSTRUCTION FROM FY 23 TO FY 24.</u>	CONSTRUCTION	FY 2024 - \$40,000 (T) FY 2025 - \$2,851,000 (T) FY 2026 - <u>\$1,109,000</u> (T) \$4,000,000

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REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* P-5733 ROWAN PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NORFOLK SOUTHERN, CITY OF SALISBURY. UPGRADE STATION BUILDING, EXPAND WAITING SPACE AND SURFACE PARKING. <u>ADD PRELIMINARY ENGINEERING NOT PREVIOUSLY PROGRAMMED. ACCELERATE RIGHT-OF-WAY FROM FY 25 TO FY 24 AT THE REQUEST OF THE MPO. COST INCREASE EXCEEDING \$2 MILLION AND 25% THRESHOLDS.</u>	ENGINEERING  RIGHT-OF-WAY  CONSTRUCTION	FY 2024 - \$523,000 (CMAQ) FY 2024 - \$197,000 (L) FY 2024 - \$1,454,000 (CMAQ) FY 2024 - \$600,000 (T) FY 2026 - \$5,419,000 (CMAQ) FY 2026 - \$1,905,000 (T) FY 2026 - \$248,000 (L) FY 2027 - \$1,124,000 (CMAQ) FY 2027 - \$395,000 (T) FY 2027 - <u>\$52,000</u> (L) \$11,917,000
R-5706BA CABARRUS PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NC 73 (DAVIDSON HIGHWAY), EAST OF SR 1394 (POPLAR TENT ROAD) TO I-85. <u>SEGMENT R-5706B INTO SEGMENTS BA AND BB AT THE REQUEST OF THE DIVISION. PROJECT FUNDED FOR PRELIMINARY ENGINEERING ONLY.</u>		
R-5706BB CABARRUS PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NC 73 (DAVIDSON HIGHWAY), I-85 TO US 29. <u>SEGMENT R-5706B INTO SEGMENTS BA AND BB AT THE REQUEST OF THE DIVISION. PROJECT FUNDED FOR PRELIMINARY ENGINEERING ONLY.</u>		
U-5761 CABARRUS PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NC 3 (DALE EARNHARDT BOULEVARD), INTERSECTION OF NC 3 (DALE EARNHARDT BOULEVARD) AND US 29/601 (CANNON BOULEVARD). CONSTRUCT INTERSECTION IMPROVEMENTS. <u>TO ALLOW ADDITIONAL TIME FOR RIGHT-OF-WAY ACQUISITION. DELAY CONSTRUCTION FROM FY 24 TO FY 25.</u>	CONSTRUCTION	FY 2025 - \$81,000 (T) FY 2026 - \$4,503,000 (T) FY 2027 - \$3,077,000 (T) FY 2028 - <u>\$439,000</u> (T) \$8,100,000

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REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

<p>* W-5709E ROWAN PROJ.CATEGORY REGIONAL</p>	<p>- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION</p>	<p>NC 153 (RICE STREET), NC 153 (RICE STREET) AT SR 1197 (CANNON FARM ROAD / MT MORIAH CHURCH ROAD) IN CHINA GROVE <u>ADD SEGMENT "E" NOT PREVIOUSLY PROGRAMMED PER DIVISION.</u></p>	<p>CONSTRUCTION</p>	<p>FY 2024 - <u>\$2,500,000</u> (NHP) \$2,500,000</p>
<p>* W-5710AO CABARRUS PROJ.CATEGORY DIVISION</p>	<p>- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION</p>	<p>SR 1002 (OLD SALISBURY CONCORD ROAD), SR 2400 (IRISH POTATO ROAD) NEAR KANNAPOLIS. CONSTRUCT SAFETY IMPROVEMENTS. <u>TO ALLOW ADDITIONAL TIME FOR RIGHT-OF-WAY ACQUISITION, DELAY CONSTRUCTION FROM FY 23 TO FY 24.</u></p>	<p>CONSTRUCTION</p>	<p>FY 2024 - <u>\$1,000,000</u> (HSIP) \$1,000,000</p>

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

STATEWIDE PROJECT

STIP MODIFICATIONS

TC-0008	- STATEWIDE PROJECT	STATEWIDE, 5339(b) DISCRETIONARY GRANT FOR	CAPITAL	FY 2024 -	\$875,000	(L)
STATEWIDE		FACILITY CONSTRUCTION		FY 2024 -	<u>\$350,000</u>	(5339)
PROJ.CATEGORY		<u>ADD FUNDING IN FY 24 AT THE REQUEST OF THE</u>				
PUBLIC TRANS		<u>INTEGRATED MOBILITY DIVISION.</u>			\$1,225,000	
TC-0010	- STATEWIDE PROJECT	STATEWIDE, 5339(b) DISCRETIONARY GRANT FOR FOR	CONSTRUCTION	FY 2024 -	\$900,000	(L)
STATEWIDE		FACILITY CONSTRUCTION		FY 2024 -	<u>\$3,600,000</u>	(5339)
PROJ.CATEGORY		<u>ADD FUNDING IN FY 24 AT THE REQUEST OF THE</u>				
PUBLIC TRANS		<u>INTEGRATED MOBILITY DIVISION.</u>			\$4,500,000	
TC-0012	- STATEWIDE PROJECT	STATEWIDE, 5339(b) DISCRETIONARY GRANT TO	CAPITAL	FY 2024 -	\$625,000	(L)
STATEWIDE		PURCHASE ELECTRIC BUSES AND CHARGING		FY 2024 -	<u>\$2,500,000</u>	(5339)
PROJ.CATEGORY		STATIONS.				
PUBLIC TRANS		<u>ADD FUNDING IN FY 24 AT THE REQUEST OF THE</u>			\$3,125,000	
		<u>INTEGRATED MOBILITY DIVISION.</u>				

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* C-56031 CABARRUS PROJ.CATEGORY EXEMPT	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	US 601, FLOWES STORE ROAD TO ZION CHURCH ROAD AND AT THE US 601 AND FLOWES STORE ROAD INTERSECTION. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY RIGHT-OF-WAY FROM FY 23 TO FY 24.</u>	RIGHT-OF-WAY  CONSTRUCTION	FY 2024 - \$200,000 (CMAQ) FY 2024 - \$50,000 (L) FY 2024 - \$916,000 (CMAQ) FY 2024 - <u>\$229,000</u> (L)	\$1,395,000
* EB-5844 CABARRUS PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	LITTLE TEXAS ROAD, LANE STREET TO DALE EARNHARDT BOULEVARD. CONSTRUCT SIDEWALK AND CURB AND GUTTER. <u>TO ALLOW ADDITIONAL TIME FOR PLANNING AND DESIGN, DELAY RIGHT-OF-WAY FROM FY 23 TO FY 24.</u>	RIGHT-OF-WAY  CONSTRUCTION	FY 2024 - \$320,000 (TAANY) FY 2024 - \$80,000 (L) FY 2024 - \$131,000 (CMAQ) FY 2024 - \$936,000 (TAANY) FY 2024 - <u>\$267,000</u> (L)	\$1,734,000
* HS-20100 CABARRUS STANLY PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION - ROCKY RIVER RURAL PLANNING ORGANIZATION	NC 73, MILE MARKER 0 TO MILE MARKER 4.3, MILE MARKER 13.1 TO MILE MARKER 18.9, MILE MARKER 20.9 TO MILE MARKER 24.0 IN CABARRUS COUNTY; MILE MARKER 0 TO MILE MARKER 8.1 IN STANLY COUNTY. INSTALL RUMBLE STRIPS AND LONG LIFE PAVEMENT MARKINGS. <u>ADD PROJECT BREAK AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	CONSTRUCTION	FY 2024 - \$1,018,000 (HSIP) FY 2025 - <u>\$382,000</u> (HSIP)	\$1,400,000
* HS-2010P CABARRUS PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NC 49: US 601; NC 3, MILE MARKER 13.8 TO MILE MARKER 15.8; MILE MARKER 6.4 TO MILE MARKER 12.3; MILE MARKER 13.8 TO MILE MARKER 20.3. INSTALL RUMBLE STRIPS AND LONG LIFE PAVEMENT MARKINGS. <u>ADD PROJECT BREAK AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	CONSTRUCTION	FY 2024 - \$727,000 (HSIP) FY 2025 - <u>\$78,000</u> (HSIP)	\$805,000

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

* HS-2010Q CABARRUS PROJ.CATEGORY STATEWIDE	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NC 49, SR 2635 (OLD AIRPORT ROAD). INSTALL DIRECTIONAL CROSSOVER WITH U-TURN BULBOUT. <u>ADD PROJECT BREAK AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	RIGHT-OF-WAY UTILITIES CONSTRUCTION	FY 2025 - FY 2026 - FY 2027 - FY 2028 -	\$10,000 \$10,000 \$677,000 <u>\$73,000</u>	(HSIP) (HSIP) (HSIP) (HSIP)	\$770,000
* HS-2010R CABARRUS PROJ.CATEGORY DIVISION	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	SR 1168 (ROBINSON CHURCH ROAD), SR 1169 (PEACH ORCHARD ROAD) NEAR HARRISBURG. WIDEN SHOULDERS AND IMPROVE SUPERELEVATION. <u>ADD PROJECT BREAK AT THE REQUEST OF THE TRANSPORTATION MOBILITY AND SAFETY DIVISION.</u>	RIGHT-OF-WAY UTILITIES CONSTRUCTION	FY 2025 - FY 2027 - FY 2027 - FY 2028 -	\$50,000 \$25,000 \$264,000 <u>\$451,000</u>	(HSIP) (HSIP) (HSIP) (HSIP)	\$790,000
U-5761 CABARRUS PROJ.CATEGORY REGIONAL	- CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION	NC 3 (DALE EARNHARDT BOULEVARD), INTERSECTION OF NC 3 (DALE EARNHARDT BOULEVARD) AND US 29/601 (CANNON BOULEVARD). CONSTRUCT INTERSECTION IMPROVEMENTS. <u>TO ALLOW ADDITIONAL TIME FOR UTILITY RELOCATION, DELAY CONSTRUCTION FROM FY 24 TO FY 26.</u>	CONSTRUCTION	FY 2026 - FY 2027 - FY 2028 -	\$3,963,000 \$3,430,000 <u>\$707,000</u>	(T) (T) (T)	\$8,100,000

\* INDICATES FEDERAL AMENDMENT

REVISIONS TO THE 2024-2033 STIP  
HIGHWAY PROGRAM

CABARRUS-ROWAN URBAN AREA METROPOLITAN PLANNING ORGANIZATION

STIP MODIFICATIONS

U-6062	- CABARRUS-ROWAN URBAN AREA	SR 2739 (NORTH MAIN STREET / SOUTH MAIN	RIGHT-OF-WAY	FY 2028 -	\$83,000	(T)
CABARRUS	METROPOLITAN PLANNING ORGANIZATION	STREET), SR 2000 (JACKSON PARK ROAD) / NORTH		FY 2029 -	\$8,174,000	(T)
ROWAN		LOOP ROAD IN KANNAPOLIS TO SR 1211 (KIMBALL		FY 2030 -	\$9,498,000	(T)
PROJ.CATEGORY		ROAD) IN CHINA GROVE. UPGRADE ROADWAY		FY 2031 -	\$4,748,000	(T)
DIVISION		INCORPORATING BICYCLE LANES AND SIDEWALKS.		FY 2032 -	\$2,770,000	(T)
		<u>COST INCREASE EXCEEDING \$2 MILLION AND 25%</u>		FY 2033 -	\$2,770,000	(T)
		<u>THRESHOLDS.</u>	UTILITIES	FY 2028 -	\$5,700,000	(T)
				FY 2029 -	\$5,700,000	(T)
			CONSTRUCTION	FY 2031 -	\$1,311,000	(T)
				FY 2032 -	\$10,676,000	(T)
				FY 2033 -	\$8,242,000	(T)
				AFTER FY 2033 -	<u>\$5,272,000</u>	(T)
					\$64,944,000	

\* INDICATES FEDERAL AMENDMENT

CABARRUS / ROWAN URBAN AREA  
METROPOLITAN PLANNING  
ORGANIZATION



FY 2024 Program of Projects  
Rider Transit System

## How to Make Comments

The Cabarrus-Rowan Metropolitan Planning Organization (MPO) is holding a public comment period on the Draft Program of Projects document from October 30<sup>th</sup> to November 27<sup>th</sup>. **Please submit any comments on the documents that you may have by Monday, November 27<sup>th</sup> to:**

email: [pconrad@rlcassoc.com](mailto:pconrad@rlcassoc.com)

**Mail: Attention: Phil Conrad  
Program of Projects  
Cabarrus-Rowan MPO  
57 Union Street South  
Concord, NC 28025**

For additional information or further assistance, call Phil Conrad at (704) 791-0608 or visit the MPO's website at [www.crmppo.org](http://www.crmppo.org). Comments on the public participation process are also welcome.

### **Locations of Plan Materials:**

The document is also available online at [www.crmppo.org](http://www.crmppo.org).

Copies of the Draft Program of Projects document are also available for public review during the review period at the following locations:

- Cabarrus County Planning Department Office
- Rowan County Planning Department Office
- Rider Transit Center

## **Background**

The annual Program of Projects is a list of projects proposed to be funded in a given fiscal year from Federal Transit Formula Grants, any transit discretionary grants, any Federal Highway Funds flexed to FTA for transit improvements, and state formula grant programs. Such projects must also be identified in the MPO-approved Metropolitan Transportation Improvement Program or the Unified Planning Work Program to be eligible for inclusion in the Program of Projects. The Program of Projects provides an additional opportunity for the public to learn about and comment on planned transit grants for the fiscal year.

The Program of Projects may be developed and approved by the designated recipient (the City of Concord - Rider Transit System) or the Metropolitan Planning Organization. The MPO is responsible for the MTIP and the UPWP, and therefore, Rider Transit has elected to use the MPO's public comment process for its program of projects. There are multiple recipients of Federal Transit grants operating in the MPO area (Salisbury Transit and NCDOT for Cabarrus County and Rowan County). The MPO must follow the Public Participation Plan, which for the Program of Projects requires a 28-day public comment period.

## **FY 2024 Program of Projects**

The FY 2024 Program of Projects includes anticipated FTA formula grants under the following programs: Section 5303 Metropolitan Planning, Section 5307 Urbanized Formula, Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities, and Section 5339 Bus and Bus Facilities.

The FY 2024 Program of Projects also includes State Maintenance Assistance Program (SMAP) funds administered by NCDOT.

The Program of Projects also describes funds made available to subrecipients and grant details such as a description, federal funding amount, and matching funds amounts. The proposed program as identified in the Draft Program of Projects will be the final program unless amended.

The MPO will seek public input on the Program of Projects under the MPO Public Participation Program. This includes a 28-day public comment period and a public review to be held at the January 24 TAC meeting. The Transportation Advisory Committee will be the body to approve the document.

**Recommended Action: MPO Approval at the January 24 meeting.**

## Section 5307 Urbanized Area Formula Grants – FY 2024

### TG-5103C      Preventive Maintenance: Contracted Maintenance Capital Costs

The City of Concord will apply for Federal capital assistance to support the costs associated with using a third-party contractor to provide transit services. Rider Transit provides the vehicles, but the third-party contractor provides drivers and maintenance staff necessary to provide public transportation services in the City of Concord. Under FTA rules this is counted as preventive maintenance. Eligible expenses are eligible for up to 80% federal reimbursement. Eligible expenses are capped at no more than 40% of overall third-party contractor costs. The proposed grant amount falls under the 40% maximum threshold.

<b>Total Costs:</b>	<b>Federal</b>	<b>Local</b>	<b>State</b>
<b>\$1,500,000</b>	\$1,200,000	\$300,000	N/A

### TG-5103A      Routine Capital

The City of Concord will apply for Federal routine capital assistance to support the purchase of a bus stop shelters, benches, shop equipment, spare parts, engines, farebox, service vehicles, etc.

<b>Total Costs:</b>	<b>Federal</b>	<b>Local</b>	<b>State</b>
<b>\$625,000</b>	\$500,000	\$125,000	N/A

### TG-5173      Purchase Replacement Buses

The City of Concord may apply for Federal capital assistance to support the purchase of replacement buses.

<b>Total Costs:</b>	<b>Federal</b>	<b>Local</b>	<b>State</b>
<b>\$6,800,000</b>	\$5,440,000	\$680,000	\$680,000

### TG-5103B      Routine Capital – ADA Service

The City of Concord will apply for Federal operating assistance for up to 10% of the total operating costs of ADA Paratransit Services. This includes fuel and operator salaries for this service.

<b>Total Costs:</b>	<b>Federal</b>	<b>Local</b>	<b>State</b>
<b>\$375,000</b>	\$300,000	\$75,000	N/A

### TS-5116      Security Enhancements

The City of Concord will utilize at least 1% of 5307 program assistance to enhance security for the Rider Transit system.

<b>Total Costs:</b>	<b>Federal</b>	<b>Local</b>	<b>State</b>
<b>\$25,000</b>	\$25,000	N/A	N/A

TL-0005

**Expansion Bus**

Total Costs:	Federal	Local	State
\$725,000	\$580,000	\$145,000	N/A

TO-5138

**Fixed Route Operating Expenses\***

The City of Concord will apply for Federal operating assistance for Rider’s fixed route services. The proposed project will serve the Concord Urbanized Area and will support public transportation services sponsored by the City of Concord through Rider Transit.

Total Costs:	Federal	Local	State
\$2,713,000	\$1,300,000	\$1,100,000	\$313,000

**Section 5310 Enhanced Mobility of Seniors & Individuals with Disabilities – FY 2024**

The City of Concord will apply for Section 5310 Enhanced Mobility for Seniors and Persons with Disabilities funding and consistent with the Coordinated Human Services Transportation Plan.

**Section 5310 Operating (TA-5128B)**

Request operating assistance for competitively selected projects to support transportation services to the elderly and disabled for employment, education, and medical trips.

Total Costs:	Federal:	Local:	State:
\$450,000	\$225,000	\$225,000	N/A

**Section 5310 Program Administration (TA-5128C)**

Request administrative support to administer the grants, compliance, and reporting program for the City of Concord. Up to 10% of available funds may be used for this purpose.

Total Costs:	Federal:	Local:	State:
\$50,000	\$50,000	N/A	N/A

**Section 5310 Capital (TA-5128A)**

Request capital assistance for competitively selected projects to support transportation services to the elderly and disabled for employment, education, and medical trips.

Total Costs:	Federal:	Local:	State:
\$625,000	\$500,000	\$125,000	N/A

**Section 5339 Bus and Bus Facility Program – FY 2024**

**Bus and Bus Facilities – Routine Capital (TA-5130A)**

The City of Concord may apply for Federal capital assistance to support the purchase of routine capital - bus stop shelters, benches, shop equipment, spare parts, engines, farebox, vehicles, etc. using Section 5339 funds.

Total Costs:	Federal:	Local:	State:
\$250,000	\$200,000	\$50,000	N/A

**Bus and Bus Facilities - Expansion Buses (TA-5130B)**

The City of Concord may apply for Federal capital assistance to support the purchase of bus and paratransit vehicles to support increases in service using Section 5339 funds.

<b>Total Costs:</b>	<b>Federal:</b>	<b>Local:</b>	<b>State:</b>
<b>\$500,000</b>	\$400,000	\$100,000	N/A

**Section 5303 Planning Assistance – FY 2024**

**Planning Assistance – 5303 (TP-5118)**

The City of Concord will apply for Federal planning assistance to support transit planning by the Cabarrus-Rowan MPO.

<b>Total Costs:</b>	<b>Federal:</b>	<b>Local:</b>	<b>State:</b>
<b>\$304,000</b>	\$243,200	\$30,400	\$30,400

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**Specific projects to be considered in FY24:**

- Cabarrus County Long Range Public Transit Master Plan implementation
  - Priority 1- System Consolidation and Implementation Plan (Rider Transit and CCTS)
- Customer Satisfaction Program Plan
- Rider Transit Bus Stop Amenity Program (ongoing)
- Public Transportation Agency Safety Plan (annually)
- ADA Transition Plan
- Bus replacement and expansion procurement
- ADA Paratransit vehicle replacement procurement
- TSA Security Assessment Program (on-going)
- Microtransit pilot and analysis

**Endorsement of Targets for Safety Performance Measures Established By NCDOT**

WHEREAS, the Cabarrus-Rowan MPO has been designated by the Governor of the State of North Carolina as the Metropolitan Planning Organization {MPO} responsible, together with the State, for the comprehensive, continuing, and cooperative transportation planning process for the MPO's metropolitan planning area; and;

WHEREAS the Highway Safety Improvement Program {HSIP} final rule {23 CFR Part 490} requires States to set targets for five safety performance measures by August 31, 2023, and;

WHEREAS, the North Carolina Department of Transportation (NCDOT) has established targets for five performance measures based on five year rolling averages for: (1) Number of Fatalities, {2} Rate of Fatalities per 100 million Vehicle Miles Traveled (VMT), (3) Number of Serious Injuries, (4) Rate of Serious Injuries per 100 million VMT, and (5) Number of Non-Motorized {bicycle and pedestrian} Fatalities and Non-motorized Serious Injuries, and;

WHEREAS, the NCDOT coordinated the establishment of safety targets with the 19 Metropolitan Planning Organizations (MPOs) in North Carolina through a Safety Target Setting Coordination Training Workshop held in March, 2017, and;

WHEREAS, the NCDOT has officially established and reported the safety targets in the Highway Safety Improvement Program annual report dated August 31, 2023, and;

WHEREAS the MPO's may establish safety targets by agreeing to plan and program projects that contribute toward the accomplishment of the State's targets for each measure, or establish its own target within 180 days of the State establishing and reporting its safety targets in the HSIP annual report.

NOW THEREFORE, BE IT RESOLVED, that the Cabarrus-Rowan MPO Transportation Advisory Committee (TAC) agrees to plan and program projects that contribute toward the accomplishment of the State's targets as noted below for each of the aforementioned performance measures:

- **For the 2024 Highway Safety Improvement Plan (HSIP), the goal is to reduce total fatalities by 23.22 percent each year from 1,494.8 (2017-2021 average) to 1,151.7 (2020-2024 average) by December 31, 2024.**
- **For the 2024 Highway Safety Improvement Plan (HSIP), the goal is to reduce the fatality rate by 24.39 percent from 1.279 (2017-2021 average) to .967 (2020-2024 average) by December 31, 2024.**
- **For the 2024 Highway Safety Improvement Plan (HSIP), the goal is to reduce total serious injuries by 32.45 percent from 4,903.4 (2017-2021 average) to 3,312.1 (2020-2024 average) by December 31, 2024.**
- **For the 2024 Highway Safety Improvement Plan (HSIP), the goal is to reduce the serious injury rate by 34.08 percent from 4.195 (2017-2021 average) to 2.765 (2020-2024 average) by December 31, 2024.**
- **For the 2024 Highway Safety Improvement Plan (HSIP), the goal is to reduce the total non-motorized fatalities and serious injuries by 29.21 percent from 637.2 (2017-2021 average) to 451.1 (2020-2024 average) by December 31, 2024.**

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Ryan Dayvault, TAC Chair

DATE: September 26, 2023

TO: Phil Conrad, AICP  
Transportation Planner, Cabarrus - Rowan Metropolitan Planning Organization

FROM: Brian Mayhew, PE, CPM  
State Traffic Engineer  
Transportation Mobility & Safety Division

SUBJECT: Safety Performance Measures – FHWA Assessment and 2024 Targets

DocuSigned by:  
  
EA0525CE2812491

### **Background**

Effective April 14, 2016, the Federal Highway Administration (FHWA) established five highway safety performance measures in accord with regulations set forth in the Federal MAP-21 and FAST Act transportation funding bills. These performance measures are:

1. Number of fatalities;
2. Rate of fatalities per 100 million vehicle miles traveled;
3. Number of serious injuries;
4. Rate of serious injuries per 100 million vehicle miles traveled; and
5. Number of combined non-motorized fatalities and non-motorized serious injuries.

These targets are established annually, are based on 5 year rolling averages, and are for calendar years. North Carolina state targets are set in agreement with our [Strategic Highway Safety Plan \(SHSP\)](#) goals. The SHSP goals are developed through collaborative efforts of a diverse group of stakeholders including state, regional, and local partners (including MPOs). The goal of the most recent (2019) SHSP is to reduce fatalities and serious injuries by half by 2035, moving towards zero by 2050.

### **North Carolina Safety Performance Target Achievement Determination**

Earlier this year, FHWA completed an assessment of target achievement for NCDOT's calendar year (CY) 2021 safety targets, based on the 5-year averages for 2017-2021 for each measure. As per 23 CFR 490.211(c)(2), a State Department of Transportation (DOT) has met or made significant progress towards meeting its safety performance targets when at least four of the safety performance targets established under 23 CFR 490.209(a) have been met or the actual outcome

is better than the baseline performance. **Based on FHWA’s review, North Carolina has not met or made significant progress toward achieving its safety performance targets.** As a result, NCDOT must ensure that all HSIP safety funds are obligated, and must develop an HSIP Implementation Plan that describes actions the State will take to meet or make significant progress toward achieving its targets. Table 1 below provides a summary of the target achievement determination at the state level.

*Table 1: North Carolina Safety Performance Target Achievement Determination Summary for CY 2021*

Performance Measures	5-year Rolling Averages			Target Achieved?	(Actual) Better than Baseline?	Met or Made Significant Progress?
	Target	Actual	Baseline			
	2017 - 2021	2017 - 2021	2015 - 2019			
Fatalities (5 Year Average)	1,309.9	1,501.2	1,426.8	No	No	No
Fatality Rate (5 Year Average)	1.105	1.284	1.206	No	No	
Serious Injuries (5 Year Average)	3,656.1	4,898.4	3,905.0	No	No	
Serious Injury Rate (5 Year Average)	3.065	4.186	3.278	No	No	
Non-motorized Fatalities and Serious Injuries (5 Year Average)	504.4	624.0	537.6	No	No	

Table 2 below shows what this determination would look like if the state’s methodology for establishing the CY 2021 goal was applied to crash data specific to Cabarrus - Rowan MPO.

*Table 2: Cabarrus - Rowan MPO Safety Performance Target Achievement Determination Summary for CY 2021*

Performance Measures	5-year Rolling Averages			Target Achieved?	(Actual) Better than Baseline?	Met or Made Significant Progress?
	Target	Actual	Baseline			
	2017 - 2021	2017 - 2021	2015 - 2019			
Fatalities (5 Year Average)	36.8	46.2	40.4	No	No	No
Fatality Rate (5 Year Average)	0.990	1.242	1.090	No	No	
Serious Injuries (5 Year Average)	112.2	136.0	121.8	No	No	
Serious Injury Rate (5 Year Average)	2.996	3.640	3.262	No	No	
Non-motorized Fatalities and Serious Injuries (5 Year Average)	12.4	19.2	13.4	No	No	

**2024 State Safety Performance Targets**

2024 state safety performance targets were submitted to FHWA on August 31<sup>st</sup>, as required, with the submission of the annual Highway Safety Improvement Program (HSIP) report. These targets reflect the 2019 SHSP goal to reduce fatalities and serious injuries by half by 2035, moving towards zero by 2050. The calculated targets are shown in Table 3 below. More detailed information about each target can be found at this [link](#).

*Table 3: North Carolina Calendar Year 2024 Safety Performance Targets*

Performance Measure	CY 2024
Number of Fatalities	1,151.7
Rate of Fatalities	0.967
Number of Serious Injuries	3,312.1
Rate of Serious Injuries	2.767
Number of Non-Motorized Fatalities & Serious Injuries	451.1

**2024 Cabarrus – Rowan MPO Safety Performance Targets**

Table 4 below provides crash data specific to your MPO and shows what the safety performance targets would look like if you applied the state’s methodology (reducing fatalities and serious injuries by half by 2035). More detailed information specific to your MPO can be found at this [link](#).

*Table 4: Cabarrus – Rowan MPO Specific Safety Performance Targets*

Year	Fatalities (5 Year Average)	Fatality Rate (5 Year Average)	Serious Injuries (5 Year Average)	Serious Injury Rate (5 Year Average)	Non-motorized Fatalities and Serious Injuries (5 Year Average)
2008 - 2012	42.2	1.277	62.2	1.894	11.4
2009 - 2013	41.6	1.290	64.8	2.018	13.6
2010 - 2014	41.0	1.280	72.2	2.244	14.8
2011 - 2015	41.8	1.280	77.6	2.370	13.2
2012 - 2016	43.2	1.290	92.4	2.730	14.2
2013 - 2017	41.2	1.197	107.2	3.043	15.4
2014 - 2018	40.0	1.111	117.6	3.225	13.8
2015 - 2019	40.4	1.090	121.8	3.262	13.4
2016 - 2020	42.2	1.151	132.6	3.594	15.4
2017 - 2021	46.2	1.242	136.0	3.640	19.2
2018 - 2022	51.4	1.377	135.8	3.629	18.4
<b>2024 Target*</b>	<b>32.4</b>	<b>0.866</b>	<b>99.6</b>	<b>2.647</b>	<b>10.9</b>

## Next Steps

MPOs are not directly assessed by FHWA on their progress towards meeting safety performance targets. However, coordination and deliberate action will be needed to achieve the fatal and serious injury crash reduction goals outlined in the NC Strategic Highway Safety Plan and as communicated through the safety performance targets. We encourage additional coordination between MPO's and NCDOT Traffic Safety Unit in all areas of safety, but specifically in data sharing, safety tools development, safety need identification and shared safety project implementation. The Traffic Safety Unit is available to meet with your MPO for additional discussion and partnership.

FHWA guidance allows each MPO to establish safety performance targets by either agreeing to plan and program projects so that they contribute toward the accomplishments of the State DOT performance targets or committing to quantifiable HSIP targets for their specific MPO area. If an MPO establishes its own targets, it will need to do so in coordination with the State per FHWA guidelines. The Traffic Safety Unit is available to facilitate this coordination. As a reminder, MPOs must establish safety performance targets no later than February 27 of each year per FHWA guidance. Please transmit a signed adoption resolution indicating the establishment of safety targets for your MPO or supporting the state's targets to Daryl Vreeland ([dvreeland@ncdot.gov](mailto:dvreeland@ncdot.gov)) in the Transportation Planning Division just as you have in previous years. An adoption resolution template can be found at this [link](#).

Finally, a new NCDOT Traffic Safety website has been established to communicate safety information to the public. A few direct links that may be of specific interest to MPOs can be found below:

- Main NCDOT Traffic Safety Unit website: [link](#)
- Mapped safety data: [link](#)
  - Here you can find a variety of spatial datasets related to traffic safety, including: fatal and serious injury crashes, pedestrian and bicycle crashes, safety projects (completed, funded, and those competing for funding), and several interactive map-based dashboards that allows the user to select an area of interest for more specific crash statistics.
- Safe Streets for All Grant (SS4A) Program: [link](#)
  - Here you will find North Carolina specific information related to the SS4A grant program. It is expected that the content of this site will expand over time.

Please contact me directly at (919) 814-5100 or [bmayhew@ncdot.gov](mailto:bmayhew@ncdot.gov) for further questions or discussion.

BKM\bgm

cc: Jamal Alavi, PE, CPM  
Daryl Vreeland, AICP  
George Hoops, PE  
Shawn Troy, PE  
Brian Murphy, PE

**Table 1: Population Projections**

<b>ROWAN COUNTY</b>	<b>2018</b>	<b>2020</b>	<b>2025</b>	<b>2035</b>	<b>2045</b>	<b>2050</b>	<b>2055</b>	<b>2060</b>	<b>2065</b>	<b>Annual</b>
										<b>Growth Rate</b>
PROJECTION YEAR	2018	2020	2025	2035	2045	2050	2055	2060	2065	
2005 MRM FORECAST			177,661	208,752						
ANNUAL INCREASE			0.88%	0.54%	0.51%					
MRM ESTIMATE	<b>148,000</b>	<b>146,875</b>	<b>155,571</b>	<b>168,900</b>	<b>180,626</b>	<b>186,892</b>	<b>193,465</b>	<b>199,592</b>	<b>205,618</b>	
ANNUAL INCREASE			0.73%	0.86%	0.69%	0.69%	0.70%	0.63%	0.60%	
<b>4TH ECONOMY</b>		<b>146,875</b>	<b>161,111</b>	<b>189,583</b>	<b>218,056</b>	<b>232,292</b>	<b>246,528</b>	<b>260,764</b>	<b>275,000</b>	<b>1.9385%</b>
Delta			<b>5,540</b>	<b>20,683</b>	<b>37,430</b>	<b>45,400</b>	<b>53,063</b>	<b>61,172</b>	<b>69,382</b>	
			<b>4%</b>	<b>12%</b>	<b>21%</b>	<b>24%</b>	<b>27%</b>	<b>31%</b>	<b>34%</b>	
MRM HOUSEHOLDS	59,924	55,485	60,000	65,300	70,000	73,281	75,608	78,229	81,033	
<b>CABARRUS COUNTY</b>										
PROJECTION YEAR	2018	2020	2025	2035	2045	2050	2055	2060	2065	
MPO PREVIOUS ESTIMATE	<b>209,515</b>	<b>225,804</b>	<b>267,877</b>	<b>337,916</b>	<b>399,347</b>	<b>432,689</b>	<b>468,664</b>	<b>500,249</b>	<b>532,387</b>	
PERCENT INCREASE			19%	26%	18%	8%	8%	7%	6%	
ANNUAL INCREASE			4%	3%	2%	2%	2%	1%	1%	
<b>4TH ECONOMY</b>		<b>225,804</b>	<b>258,779</b>	<b>313,333</b>	<b>376,023</b>	<b>409,628</b>	<b>444,935</b>	<b>481,309</b>	<b>518,499</b>	<b>2.8805%</b>
Delta			<b>(9,098)</b>	<b>(24,583)</b>	<b>(23,324)</b>	<b>(23,061)</b>	<b>(23,729)</b>	<b>(18,940)</b>	<b>(13,888)</b>	
			<b>-3%</b>	<b>-7%</b>	<b>-6%</b>	<b>-5%</b>	<b>-5%</b>	<b>-4%</b>	<b>-3%</b>	
HOUSEHOLDS	76,826	74,967	99,000	125,100	147,900	164,655	175,868	188,835	202,819	
WSACC ESTIMATE*						381,000				

\*Assumes an average household size of 2.58

**Table 2: Employment Projections**

	2018	2020	2025	2035	2045	2050	2055	2060	2065
<b>ROWAN COUNTY</b>									
PROJECTION YEAR	2018	2020	2025	2035	2045	2050	2055	2060	2065
MRM ESTIMATE	56,956	58,296	59,168	62,812	66,383	67,903	69,782	71,473	73,172
<b>4TH ECONOMY</b>			<b>76,519</b>	<b>81,037</b>	<b>86,461</b>	<b>88,838</b>	<b>91,435</b>	<b>94,221</b>	<b>96,817</b>
			17,351	18,225	20,078	20,935	21,653	22,748	23,645
<b>JOBS/HOUSING RATIO</b>			0.47	0.43	0.40	0.38	0.37	0.36	0.35
<b>CABARRUS COUNTY</b>									
PROJECTION YEAR	<b>2018</b>	<b>2020</b>	<b>2025</b>	<b>2035</b>	<b>2045</b>	<b>2050</b>	<b>2055</b>	<b>2060</b>	<b>2065</b>
MRM ESTIMATE	82,433	85,492	101,930	123,594	145,809	158,418	168,948	180,600	192,169
<b>4TH ECONOMY</b>			<b>131,759</b>	<b>139,338</b>	<b>148,389</b>	<b>152,378</b>	<b>156,725</b>	<b>161,379</b>	<b>165,729</b>
			29,829	15,744	2,580	(6,040)	(12,223)	(19,221)	(26,440)
<b>JOBS/HOUSING RATIO</b>			0.51	0.44	0.39	0.37	0.35	0.34	0.32

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## **CABARRUS-ROWAN MPO MEMORANDUM**

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**TO:** CABARRUS-ROWAN MPO MEMBERS  
**FROM:** PHIL CONRAD, MPO DIRECTOR  
**SUBJECT:** 2055 MTP SOCIOECONOMIC FORECASTS  
**DATE:** OCTOBER 16, 2023

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At the October 2023 meeting, the TAC is asked to adopt county-level projections (control totals) for future population and employment in Cabarrus and Rowan counties for the 2055 MTP's four horizon years: 2025, 2035, 2045 and 2055. CRMPO staff and other regional planning staff, with the help of 4<sup>th</sup> Economy consultants, have been developing county-level projections/control totals for a fall 2023 endorsement by the MPOs and RPO. The development of updated socioeconomic data is an essential component of the development of the 2055 Metropolitan Transportation Plan. The projections will inform allocation and distribution of future socioeconomic growth estimates at the TAZ level throughout the two counties of Cabarrus and Rowan.

### **PURPOSE**

- Projections are direct inputs into for the Metrolina Regional Travel Demand Model & Metropolitan Transportation Plan development process.
- Respective county level projections are endorsed by each of the Metrolina MPOs and the RPO in Stanly County.
- Projections are being developed and verified with local staff based on socioeconomic data collected for the 2022 base year, which coincides with the recent US Census release.
- Projections have previously been endorsed approximately every four years since inception of the Travel Model in 2003.

### **DATA SOURCES**

- Bureau of Economic Analysis (BEA)
- Regional Economic Development consultant expertise (Fourth Economy, 2023)
- Geographically located employment data
- Chamber of Commerce/EDC Major Employer Database

- County & local building permits
- County & local certificates of occupancy
- Census estimates
- Average Household Size and vacancy rates (Census)
- Local development trends
- Local staff research

### **KEY CONSIDERATIONS**

- Projections are intended to be objective, research-based, and defensible; used primarily as an input to the modeling/MTP process to ultimately process and pass air quality conformity, and any subsequent amendments.
- Projections adopted in calendar 2023 incorporate projections by regional economists, and most current employment, household, and school enrollment data trends.
- CRMPO has previously endorsed projections using this approach
- Local staff re-assess these projections every 4 years to coincide with a new base year and the next MTP process.

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TIP / WBS No.	Description	Let Date	Completion Date	Status	Construction Cost	Contractor	Project Administrator	Comments
<b>PROJECTS UNDER CONSTRUCTION</b>								
B-4626 38443.3.3 (C204446)	Replace Bridge #3 (EBL), and apply Bridge Preservation Treatment to Bridge #8 (WBL), over Yadkin River/W-S SB RR on NC 49 in Rowan County	February 1, 2022	April 30, 2025	45% Complete	\$13,777,568	Smith-Rowe	Eric Goldston (704) 630-3220	Smith-Rowe continuing demolition of old bridge and to begin setting girders for new bridge. Anticipated completion date of April 2025.
B-5772 45728.3.1	Replace Bridge #66 over Norfolk Southern RR on SR 1724 (Hurley School Rd) in Rowan County	October 1, 2022	November 11, 2024	3% Complete	\$2,880,727	Smith-Rowe	Kelly Seitz (704) 630-3200	Project is delayed due to needing a revised construction agreement with Norfolk Southern Railroad.
U-5738 50163.3.1 (C204426)	Widen to multiple lanes on SR 2528 (Julian Rd) from US 601 (Jake Alexander Blvd) to SR 2667 (Summit Park Dr) in Salisbury	March 28, 2022	January 28, 2025	40% Complete	\$13,039,376	J. T. Russell and Sons	Eric Goldston (704) 630-3220	JTR currently working on phase 1 grading and storm drainage. Anticipated traffic shift to new alignment late 2023/early 2024.
R-5789H (DI00303)	ADA Ramps, Curb and Gutter, Sidewalk Construction on various routes in Davidson, Davie, Forsyth, Rowan, and Stokes.	October 31, 2022	TBA	60% Complete	\$964,376	Carolina Group Properties LLC	Kelly Seitz (704) 630-3200	Contractor is currently working in China Grove on replacing WCR. All work in Cleveland, Granite Quarry, Rockwell, Salisbury and Spencer is completed. Crews will also be working in Landis.
HL-0005	Various, City of Salisbury Signal System Upgrade.	September 30, 2022	Fall 2023	60% Complete	\$282,000	ALS of NC	Wendy Brindle (704) 638-5201	Material supply issues.
2023CPT.09.07.10801 2023CPT.09.08.20801 (C204811)	Milling, resurfacing, and shoulder reconstruction on 1 section of US-70, US-29, and NC-150, and 5 sections of secondary roads.	March 15, 2023	September 15, 2024	0% Complete	\$4,651,490	J. T. Russell and Sons	Kelly Seitz (704) 630-3200	No work planned on the project until late September 2023.
17BP.9.R.76 (DI00269)	Replace Bridge #81 on SR 1926 (Hannah Ferry Rd) over Deals Creek in Rowan County	August 23, 2023	May 3, 2024	0% Complete	\$932,023	Dellinger, Inc.	Eric Goldston (704) 630-3221	Availability date of September 25, 2023. Dellinger will begin clearing & grubbing.
HS-2009E	Pavement Grinding and Markings on SR 1002 (Old Concord Road) from Cabarrus County Line (Milepost 28.57) to Jake Alexander Boulevard (Milepost 17.63) in Salisbury	March 27, 2023	TBA	0% Complete	\$188,317	TRP Construction Group, LLC	Kelly Seitz (704) 630-3200	No work planned on the project until July 2023.
HS-2009D	Extend concrete median and install U-turn bulb out on Jake Alexander Blvd east of Morlan Park Rd in Salisbury	May 24, 2023	October 31, 2023	5% Complete	\$443,685	Atlantic Contracting Company, Inc.	Eric Goldston (704) 630-3220	Atlantic Contracting began sign installation on 8/8/23 and will begin preparing for widening work at U-turn bulb.
<b>PROJECTS UNDER DEVELOPMENT</b>								
HE-0009	NC 152 Improvements with Proposed Access Road East of I-85/US 601 in China Grove	January 24, 2024	TBD	ROW Acquisition in progress	\$6,300,000	TBD	Ryan Newcomb (336) 747-7800	Economic Development project. PE work has started. 25% plans are complete. Hydro approved. 65% plans are complete. The developer is responsible for ROW acquisition and utility relocations. Final plans are complete pending ROW acquisition and utility relocations. Let date has been delayed to January due to delays by the developer acquiring the needed R/W and utility relocations being completed.
P-5726 47604.3.1 (C204343)	NS Main - Construct Track Improvements, Second Platform, Pedestrian Underpass, Sitework, Retaining Wall, and Signalling Equipment	January 21, 2025	TBA	ROW Acquisition in progress	\$10,800,000	TBA	Sam Coleman (919) 707-4158	Raleigh Let - Pending execution of rail agreement.
P-5726A	Salisbury train station second platform and pedestrian underpass.	February 28, 2024	TBA	ROW Acquisition in progress	\$2,500,000	TBA	Sam Coleman (919) 707-4158	Division POC
P-5726B	Salisbury Norfolk Southern crossover relocation.	March 29, 2024	TBA	ROW Acquisition in progress	\$4,000,000	TBA	Sam Coleman (919) 707-4158	NON-DOT Let
P-5733 47612.3.1	NS Main - Rowan County - Upgrade Station Building, expand waiting space and surface parking	July 15, 2025	TBA	ROW Acquisition 2025	\$2,370,000	TBA	Sam Coleman (919) 707-4158	Raleigh LET

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TIP / WBS No.	Description	Let Date	Completion Date	Status	Construction Cost	Contractor	Project Administrator	Comments
<b>PROJECTS UNDER DEVELOPMENT</b>								
R-5860 47548.3.1	Widen to multilanes - US 52 Rowan County Proposed Misenheimer Bypass to Proposed Rockwell Bypass (4.6 miles)	January 1, 2040	TBA	ROW Acquisition 2027	\$39,321,000	TBA	Alexander Foster (919) 707-6239	DDRL *The PE work for this project has been temporarily suspended.*
U-5901 44705.3.1	Airport Parkway –Construct 2-lane roadway on Multilane right of way in new location from SR 1710 (Harrison Rd) near US 70/601 (Jake Alexander Blvd) to SR 2539 (Peach Orchard Rd) at US 29 in Salisbury	2030	TBA	Planning/Design in Progress ROW Acquisition 2027	\$39,502,000	TBA	Ryan Newcomb (336) 747-7800	DDRL - Raleigh Let. Express design update in progress to update project estimate. Project is now on the PE Move Forward List. NTP for PE work issued 1/17/23. Project website updates are complete. Start of study letters have been sent. Scheduling Merger Screening for late September/early October. Planning for CP1 meeting Fall 2023.
U-6062 47486.3.1	Upgrade SR 2739 (N. Main St and S. Main St) to incorporate Bicycle Lanes and Sidewalks, from SR 2000 (Jackson Park Rd/N. Loop Rd) in Kannapolis to SR 1211 (Kimball Rd) in China Grove	2031	TBA	ROW Acquisition 2028	\$28,400,000	TBA	Ryan Newcomb (336) 747-7800	DDRL - *The PE work for this project has been temporarily suspended.* Express design update in progress to revise project estimate.
U-6130 48321.3.1	Construct ramp and intersection improvements on US 29 at NC 152 in China Grove	Funded for Preliminary Engineering Only	Funded for Preliminary Engineering Only	Funded for Preliminary Engineering Only	\$2,000,000	Funded for Preliminary Engineering Only	Ryan Newcomb (336) 747-7800	Division POC (DPOC) *The PE work for this project has been temporarily suspended.* Express design update in progress to revise project estimate.
W-5709E 44855.3.5	Construct Roundabout and other safety improvements at Intersection NC 153 (Rice Street) and SR 1197 (Cannon Farm Rd) in China Grove	August 28, 2024	TBA	ROW Acquisition in progress	\$2,500,000	TBA	Matt Jones (336) 747-7800	Division POC Let (DPOC) - Project is progressing with design and right of way acquisition. Right of way acquisitions are underway, working to acquire all parcels required for utility relocations.
Y-5500IA 80000.2.1.12	SR 1526 (Henderson Grove Church Rd) RR Crossing #724 362M Closure	November 28, 2023	TBA	ROW Acquisition in progress	\$4,150,000	TBA	Kumar Trivedi (919) 707-4109	Division POC Let (DPOC) - R/W Plans Complete (RPC)(09/02/2021)
<b>STATE FORCES CONSTRUCTED PROJECTS</b>								
48921	Construct right turn lane on SR 1210 (Old Beatty Ford Rd) at US 29.	May 31, 2024	TBA	ROW Acquisition complete. Utility relocations are required.	\$361,000	State Forces	Matt Jones, PE (336) 747-7800	High Impact Low Cost (HILC) project - Let date is dependent upon right of way acquisition but hopeful a settlement can be reached with owner. An Appraisal has been requested due to the owners counteroffer being unreasonable. The right of way needed for the project has been acquired. NCDOT maintenance forces will assess their current workload and projects to determine if construction could begin by Fall 2023.
SM-5709G	Construct left turn lane on NC 152 at US 29 in China Grove	August 31, 2023	TBA	Under Construction	\$290,000	State Forces	Matt Jones, PE (336) 747-7800	NCDOT maintenance forces have begun work and are installing the new signal pole and drainage.
<b>DIVISION BRIDGE PROJECTS UNDER DEVELOPMENT</b>								
15BPR.74	Bridge Rehabilitation - Bridge #137 and #465 on I-85 over Yadkin River	April 15, 2025	TBA	TBA	\$4,200,000	TBA	Daniel Dagenhart (336) 747-7800	In development
15BPR.115	Bridge Rehabilitation - Bridge #790137 and #790465 on I-85 over Yadkin River	4/15/2025	TBA	TBA	\$4,200,000	TBA	Daniel Dagenhart (336) 747-7801	In development
17BP.9.R.76	Replace Bridge #81 over Deals Creek on SR 1926 (Hannah's Ferry Rd) in Rowan County	August 30, 2023	TBA	ROW Acquisition Complete	\$750,000	TBA	Daniel Dagenhart (336) 747-7800	Final Plans recieved - FERC permit acquired. We have ran into issues with State properties and multiple State agencies affecting the ROW.
17BP.9.R.85	Replace Bridge #198 and Bridge #199 over Crane Creek on SR 2529 (St. Paul Church Rd) in Rowan County	October 25, 2023	TBA	ROW Acquisition in progress	\$1,200,000	TBA	Daniel Dagenhart (336) 747-7800	Planning and Design underway.

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TIP / WBS No.	Description	Let Date	Completion Date	Status	Construction Cost	Contractor	Project Administrator	Comments
<b>DIVISION BRIDGE PROJECTS UNDER DEVELOPMENT</b>								
17BP.9.R.86	Replace Bridge #205 over Grant's Creek on SR 1516 (Airport Rd) in Rowan County	May 29, 2024	TBA	ROW Acquisition in progress	\$1,000,000	TBA	Daniel Dagenhart (336) 747-7800	Project is on schedule.
17BP.9.R.96	Replace Bridge #254 over Kerr Creek on SR 1547 (Caldwell Rd) in Rowan County	February 11, 2026	TBA	ROW Acquisition in progress	\$900,000	TBA	Daniel Dagenhart (336) 747-7800	Planning and Design underway.
BP9-R004 BP9-R004.3 (formerly 17BP.9.R.78)	Replace Bridge #235 over Unnamed Creek on SR 1322 (Ebenezer Rd) in Rowan County	November 13, 2024	TBA	ROW Acquisition in progress	\$750,000	TBA	Daniel Dagenhart (336) 747-7800	Planning and Design underway.
BP9-R012 BP9-R012.3 (formerly 17BP.9.R.105)	Replace Bridge #108 over Tuckertown Reservoir on SR 1004 (Stokes Ferry Rd) in Rowan County	August 27, 2025	TBA	ROW Acquisition Nov. 23, 2023	\$1,500,000	TBA	Daniel Dagenhart (336) 747-7800	Planning and Design underway.
<b>LOCALLY ADMINISTERED PROJECTS</b>								
BL-0034	US 601 from north of Kelsey Scott Park Greenway to end of Salisbury Mall project in Salisbury. Construct sidewalk connections to Salisbury Greenway/Carolina Thread Trail.	June 30, 2025	TBA	ROW Acquisition June 28, 2024	\$845,040	TBA	Wendy Brindle (704) 638-5201	Non-DOT let (LAP) - City of Salisbury - PEF has been chosen and OIG reviewing.
C-5603D 43713.3.4	Construct sidewalks on Old Concord Rd from Ryan St to Jake Alexander Blvd	November 17, 2023	TBA	ROW Acquisition in progress	\$414,000	TBA	Wendy Brindle (704) 638-5201	Non-DOT let (LAP) - City of Salisbury - Reviewing final plans. The City has received ROW phase authorization. Need ROW certification to ask for construction authorization.
C-5603H 43713.3.8	Brenner Ave from Statesville Blvd. to W Horah St and Brenner Ave. at Link Ave. in Salisbury	September 1, 2024	TBA	ROW Acquisition in progress	\$643,000	TBA	Wendy Brindle (704) 638-5201	Non-DOT let (LAP) - City of Salisbury - in design. The City has received ROW phase authorization. Waiting on Consultant to update final plans and proposal.
EB-5619B 56033.3.3	Grants Creek Greenway - Construct Multi-use trail from Kelsey Scott Park to Forestdale Dr in Salisbury	September 29, 2024	TBA	ROW Acquisition in progress	\$1,439,000	TBA	Wendy Brindle (704) 638-5201	NON-DOT let (LAP)
EB-5861	Third Street Greenway from 3rd Street to Yadkin River in Spencer. Construct alternate route, including spur from Grants Creek	September 30, 2024	TBA	TBA	TBA	TBA	Joel Taylor (704) 633-5331	Non-DOT let (LAP)
HL-0049	US 70 / US 601 (Jake Alexander Blvd) to Milford Hills Rd in Salisbury. Construct Median; Construct roundabout at Milford Hills Rd.	September 30, 2024	TBA	ROW Acquisition Sept. 1, 2023	\$830,000	TBA	Wendy Brindle (704) 638-5201	Non-DOT let (LAP) - PE funding was requested on 7/19/23. BOT approved funds on September 2023 agenda.
<b>COMPLETED PROJECTS</b>								
17BP.9.R.80	Replace Bridge #155 over Second Creek on SR 2136 (Agner Rd) in Rowan County	February 15, 2023	July 20, 2023	100% Complete	\$792,315	Kemp Sigmon Construction Co.	Eric Goldston (704) 630-3220	Project waiting on permanent vegetation establishment.

TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
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RAILROAD	RAILROAD PROJECTS							
	PROJECTS UNDER DEVELOPMENT							
	Y-4810K	Rogers Lake Road Grade Separation over NA/NCRR Railroad and closure at Grade Crossing N.724408Y in Kannapolis	November 2022	December 2026	10.78 % Complete	16.3M	NJR Group, Inc.	NCDOT Michael Mariano 704-983-4400
P-5725	Kannapolis Train Station Second Platform and Pedestrian Overpass	June 2024	TBD		10.1 M	TBD	NCDOT Brad Smythe 919-707-4118	Utility Relocations being performed. Pending Railroad CONstruction Agreement completion.

I85	I-85 PROJECT							
	PROJECTS UNDER DEVELOPMENT							
I-3802AA	I-85 Installation of Fiber Optic Communications Network, CCTV and DMS System for I-3802A project	February 2023	October 2024 - January 2025	Awarded	2.1 M	Traffic Control Devices	NCDOT Michael Mariano 704-983-4400	Project is currently under CONstruction. Allotted 510 days to Complete construction.

URBAN	URBAN PROJECTS							
	ACTIVE CONSTRUCTION PROJECTS							
	U-3440	NC 3 Kannapolis. U-2009 (Westside Bypass)-TO-SR 1691 (Loop Road). Widen existing route to multi-lane facility	November 2016	FALL 2023	95% Complete	34.1 M	JT Russell	NCDOT Jon Hinson 980-523-0085
PROJECTS UNDER DEVELOPMENT								

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
B A N P R O J E C T S	U-5761	NC 3 (Dale Earnhardt Blvd.) Kannapolis Improve Intersection of NC 3 and US 29/601	R/W-2022 LET 2025	2027 PROJECTED	90% Plans R/W 60%	10.9 M	RS&H	NCDOT Donald Griffith 704-983-4418	ROW Acquisition has been paused due to utility revisions and will resume once markups are complete. Anticipated Schedule Change Request was sent 8/23/2023 to reflect 2025 LET. Schedule change IS complete and properly reflected in SAP.
	U-6032	Mallard Creek Road (SR-2467)/ Derita Rd (SR-1445) from I-485 to Concord Mills Blvd. Widen to 6 lanes	R/W-2022 LET 2025	2027 PROJECTED	75% Plans	25 M	KCI	NCDOT Donald Griffith 704-983-4418	Currently in Design. PE work continuing. ROW Acquisition paused due to Duke Energy mark-up. Schedule Change Request is anticipated due to the delay in utilities. PM will provide update when SCR has been sent.
	U-5956	US 29 Concord. Realign Union Cemetery Road to Intersect US 29 at Rock Hill Church Road	R/W-2022 LET 2025	2027 PROJECTED	75% Plans	8.1 M	Kimley-Horn	NCDOT Randy Bowers 704-983-4400	ROW Acquisition in progress.
	U-3415A	SR 1394 Poplar Tent Rd. Concord Derita Road to George Liles Pkwy. Widen to 4 lane divided	R/W-2024 LET-2027	2029 PROJECTED	15 % Plans	20.5 M	TBD	NCDOT Donald Griffith 704-983-4418	PROJECT IS BEING RESTARTED and moving forward. Working toward 25% plans.
	U-6029	SR 1394 Poplar Tent Rd. Concord Derita Road to NC 73. Widen to 4 lanes						NCDOT Sean Epperson 704-983-4400	PROJECT NOT FUNDED

**C  
P** CONGESTION PROJECTS

**HIGHWAY SAFETY PROJECTS**

ACTIVE CONSTRUCTION PROJECTS

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS	
S A F E T Y	47866/ SS-4910CK	Poplar Tent Rd. at Rock Hill Church Road & Eva Drive Concord Intersection improvements	March 2023	Spring 2024		1.48 M	NJR Group	NCDOT Michael Mariano 704-983-4380	Project began in July however it was halted due to utility conflicts. DDC is currently working to redesign and project will resume immediately thereafter.	
	<b>PROJECTS UNDER DEVELOPMENT</b>									
	W-5710AO	Salisbury-Concord Road/Old Concord Rd. Kannapolis to Irish Potato Road. Install Roundabout	November 2023	TBD	75% ROW	1.15 M	TBD	NCDOT Donald Harward 704-983-4400	<b>Project Approved to move forward.</b> Utility relocation in progress.	
	HS-20100	NC 73. Install rumble strips and long life pavement markings.	March 2024	TBD		1.1 M	TBD	NCDOT Jared Mathis 704-983-4400	MM 0.00-MM 4.26, MM 13.12-MM 18.9, MM 20.887 - MM 24.01 in Cabarrus County; and, MM 0.00 - MM 8.09 in Stanly County.	
	HS-2010P	NC 49; US 601; and, NC 3. Install rumble strips and long life pavement markings.	March 2024	TBD		1.4 M	TBD	NCDOT Jared Mathis 704-983-4400	NC 49 (MM 13.75-15.79), US 601 (MM 6.38-MM 12.275), and NC 3 (MM-13.777- MM 20.347).	
	HS-2010D	NC 24/27 and Bethel School Road Half RCI	Summer 2024	TBD		392 K	TBD	NCDOT Donald Harward 704-983-4400	ROW Completed. Utility Relocations have begun.	
	HS-2010F	NC 24/27 and Pine Bluff/Reed Mine Road RCI	February 2025	TBD		750 K	TBD	NCDOT Donald Harward 704-983-4400	Project Currently in Design.	
HS-2010H	NC 49 and Zion Church Road RCI	May 2025	TBD		1.95 M	TBD	NCDOT Donald Harward 704-983-4400	Project Currently in Design.		

## BRIDGE PROJECTS

### ACTIVE CONSTRUCTION PROJECTS

BP10.C002	Pipe 120247 St. Stephens Road / Mt. Pleasant Replace Pipes over Butcher Branch	September 2023	Spring 2024		600 K	TBD	NCDOT Garland Haywood 704-983-4400	Project has been LET
B-5808	Bridge 120057 & 120059 (US 29/601) over Irish Dutch Buffalo Creek near Poplar Tent Road	July 2023	FALL 2026	8.5% Complete	11.7 M	Dane Construction	NCDOT Michael Mariano 704-983-4380	Project is under CONstruction. Vegetation scheduled for completion in November 2026.

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
B R I D	B-5810	Bridge 120022 /NC24-27. Locust, NC. Replace bridge over Rocky River	August 2022	July 2024	61% Complete	6.1 M	Dane Construction	NCDOT Michael Mariano 704-983-4380	East bound traffic has been shifted to the west bound side. Girders in spans C-F have been set and the deck has been poured. Completion will be Summer of 2024.
	B-5375	Bridge120 137 / SR 1132 (Miami Church Road) Mt. Pleasant over Dutch Buffalo Creek	July 2022	November 2023	95% Complete	1.2 M	NJR Group	NCDOT Michael Mariano 704-983-4380	Project CONstruction is complete. Establishment of vegetation is all that remains.
	B-5813	Bridge 120132 / NC 73 over Dutch Buffalo Creek	January 2022	Winter 2023	55 % Complete	4.3 M	NJR Group	NCDOT Michael Mariano 704-983-4380	CONstruction began in March 2022. Work was delayed due to lack of available ductile iron pipe. Girders have been set and rebar being tied.
	17BP.10.R.144	Bridge 120053 / SR 2114 (Centergrove Road) Kannapolis over Cold Water Creek	April 2021	April 2022	100% Complete	1.7 M	Dane Construction	NCDOT Jon Hinson 704-983-4380	<b>PROJECT IS COMPLETE</b> Project has been closed out.
<b>PROJECTS UNDER DEVELOPMENT</b>									
G E P	B-5372	Bridge 120109 / SR 1706 Kannapolis Bridge on (East First Street) over US 29	SPRING 2024	TBD		5.8 M	TBD	NCDOT Garland Haywood 704-983-4400	Currently in Design & ROW Acquisition is in progress.
	17BP.10.R.110	Bridge 120105 / E. Gold Hill Road Mt. Pleasant Replace bridge over branch of Big Bear Creek	Fall 2029	Spring 2030		895 K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design. LET has been delayed for 4 years due to budget constraints.
	BP10.R010	Bridge 120245 / SR 1309 (Stough Road) over Wolf Meadow Creek	N/A	N/A		2.5 M	TBD	NCDOT Garland Haywood 704-983-4400	Division Bridge Maintenance has removed the existing bridge and replaced with a wider bridge of similar construction of the former bridge.
	BP10.R015	Bridge 120129 / SR 2635. (Old Airport Road) Concord over Cold Water Creek	Fall 2028	Spring 2030		1.3 M	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design. Contract LET has been delayed 4 years due to est. cost of CONstruction and potential funding source.

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
R O	BR-0181	Bridge 120062 / SR 2180 (Lane St.) over Lake Fisher	Fall 2027	TBD		TBD	TBD	NCDOT Garland Haywood 704-983-4400	Bridge Project was scoped on July 25, 2023 and design work is underway.
	BR-0244	Bridge 120033 / SR 1625 (Rogers Lake Rd.) over Irish Buffalo Creek	Summer 2027	TBD		TBD	TBD	NCDOT Garland Haywood 704-983-4400	Bridge Project to be scoped in Fall 2023 to develop replacement plans.
J	BP10.R034	Bridge 120073 / SR 2416 (Mt Olive Road) Mt. Pleasant over Branch of Dutch Buffalo Creek	Fall 2026	Fall 2027		750 K	TBD	NCDOT Randy Bowers 704-983-4400	Project Currently in Design. Contract LET delayed 2 years due to estimated cost of CONstruction potential and funding source.
E	BP10.C010	Bridge 120301 / SR 2608 (Hahn Road) over Little Bear Creek	Fall 2024	Fall 2024		\$800K	TBD	NCDOT Garland Haywood 704-983-4400	Currently awaiting project PO, required to complete design for LET.
C	BP10.R047	Bridge 120083 / SR 2408 (Gold Hill Road) over Dutch Buffalo Creek	Fall 2030	Spring 2032		900 K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design. Contract LET date delayed 5 years due to estimated cost of CONstruction and potential funding source.
T	BP10.R055	Bridge 120292 / Mauney Road Mt. Pleasant Replace bridge over Little Meadow Creek	Fall 2025	Winter 2026		750 K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design.
S	BP10.C003	Bridge 120050 / SR 2113 (Penninger Road) over Br. Of Cold Water Creek	Fall 2033	Winter 2034		\$870K	TBD	NCDOT Garland Haywood 704-983-4400	Project Currently in Design. Contract LET date delayed 5 years due to estimated cost of CONstruction and potential funding source.
	BP10.R019	Bridge 120173 / SR 1169 (Peach Orchard Road) Harrisburg over McKee Creek	LET Date beyond 2026. Currently not established	TBD		500 K	TBD	NCDOT Garland Haywood 704-983-4400	Plan Development will proceed when LET has been scheduled and confirmed.
	BP10.C001	Bridge 120219 / SR 2710 (Walker Road) Concord over Adams Creek	LET Date beyond 2026. Currently not established	TBD		450 K	TBD	NCDOT Garland Haywood 704-983-4400	Plan Development will proceed when LET has been scheduled and confirmed.

TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
BP10.R031	Bridge 210 / SR 1006 (Mt Pleasant Road) Mt. Pleasant over Bost Creek	LET Date beyond 2026. Currently not established	TBD		550 K	TBD	NCDOT Garland Haywood 704-983-4400	Plan Development will proceed when LET has been scheduled and confirmed.

## MUNICIPAL PROJECTS

### ACTIVE CONSTRUCTION PROJECTS

M U N I C I P A L	U-6098/47706	(PHASE II) Cabarrus County -Various; Left turn lane at NC 73 and SR 1430 // Turn lanes at access rd. NC 73 // RAB SR 1620 & SR 1621 // Extend storage lanes 85 ramps	Spring 2023	Spring 2024	30% Complete*	2.7 M	Sealand Contractors Corp.	City of Kannapolis NCDOT Jeff Burleson 704-983-4400	Phase I is completed. *A small section of Phase II was completed during the CONstruction of Phase I. Anticipated completion Date: June 2024.
	SS-6010AP	NC 3 Branchview Drive and Cabarrus Avenue Crosswalk and Traffic Signal Upgrades	January 2023	March 2023	98% Complete	24 K	Watson Electrical Construction ON CALL	City of Concord NCDOT Zach Gardener 704-983-4400	Work has been completed. Final Invoice submitted on May 29, 2023.

### PROJECTS UNDER DEVELOPMENT

C I P A L	BL-0043	N Washington St (NC 73 to Park Drive) Sidewalk, C&G, widening, sharrows	September 2024	TBD	Working on PEF selection.	524 K	TBD	Mt Pleasant NCDOT Jeff Burleson 704-983-4400	Agreement executed 11/10/22. PE Funds authorized 6/11/23. PEF selection starting soon.
	C-5603I	US 601 From Flowe Store Road to Zion Road with US 601 and Flowe Store Road. Sidewalk and intersection improvements	September 2024	TBD	75% Plans	1.5 M	TBD	Concord NCDOT Jeff Burleson 704-983-4400	Awaiting (75%) plans submittal. ROW Authorization proposed 12/1/23.
	EB-5732	SR 2894 (Concord Mills Blvd.) Concord Construct Sidewalks on Concord Mills Blvd. and portions of Weddington Road from US 29 to SR 1431	R/W 2024 LET 2026	2027	25 % Plans	6 M	HNTB	NCDOT Sean Epperson 704-983-4400	<b>PROJECT IS REACTIVATED</b> and moving forward. Working toward 65% plans.
	C-5603F	Bethpage Road From South Main Street to Leonard Avenue and from Westgreen Drive to Klondale Avenue sidewalk	March 2025	TBD	Working on 60% Plans	208 K	TBD	Kannapolis NCDOT Jeff Burleson 704-983-4400	Waiting on revised ROW plan submittal and CE.

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
U R B A N	EB-5844	Little Texas Road Lane Street to Dale Earnhardt Blvd sidewalk	September 2024	TBD	Working on 60% Plans	2.1 M	TBD	Kannapolis NCDOT Jeff Burleson 704-983-4400	ROW plans due 10/2/23.
	HL-0062	NC 49 from Morehead Rd to Cedar Dr-Access Management Improvement	March 2025	TBD	Working on PEF selection.	6.5 M	TBD	Harrisburg NCDOT Jeff Burleson 704-983-4400	Agreement executed 8/3/23.
	HL-0063	Caldwell Rd from US 29 to NC 49-Intersection Improvement and Roadway Extension	March 2025	TBD	Working on PEF selection.	4.2 M	TBD	Harrisburg NCDOT Jeff Burleson 704-983-4400	Agreement executed 8/3/23.
	HL-0001	Poplar Tent Road Improvements (Moss Drive to Fullerton PI Drive)	April 2025	TBD		3.9 M	TBD	Concord NCDOT Jeff Burleson 704-983-4400	(PE, ROW, CON) PE funds approved 8/17/22. RK&K selected as PEF and rates/contract apprvd. Starting design talks and environmental.
	BL-0060	Cox Mill Road Loop Greenway & Bicycle/Ped bridge	August 2025	TBD		1.9 M	TBD	Mt Pleasant NCDOT Jeff Burleson 704-983-4400	CON PHASE ONLY Agreement executed 1/20/23.
	BL-0086	Hickory Ridge Rd and Stallings Rd sidewalks	February 2025	TBD		1.5 M	TBD	Harrisburg NCDOT Jeff Burleson 704-983-4400	Agreement executed 8/3/23.
	BL-0087	Elm Ave, Glenn St, Crowell Dr, & Cedar Dr sidewalk	September 2024	TBD		1.6 M	TBD	Concord NCDOT Jeff Burleson 704-983-4400	Project in its earliest discussion. Yet to schedule date or start the LAP process. Awaiting discussion.

## RURAL PROJECTS

### PROJECTS UNDER DEVELOPMENT

R U R A L	R-2246A	George Liles Parkway Concord NC 49 to Roberta Road. Widen to Multi-Lanes	R/W 2028 LET 2030	TBD		16.5 M	TBD	NCDOT Travis Preslar 704-983-4400	PROJECT IS BEING RESTARTED. Design firm is currently working on scope and fee.
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## VARIOUS PROJECTS

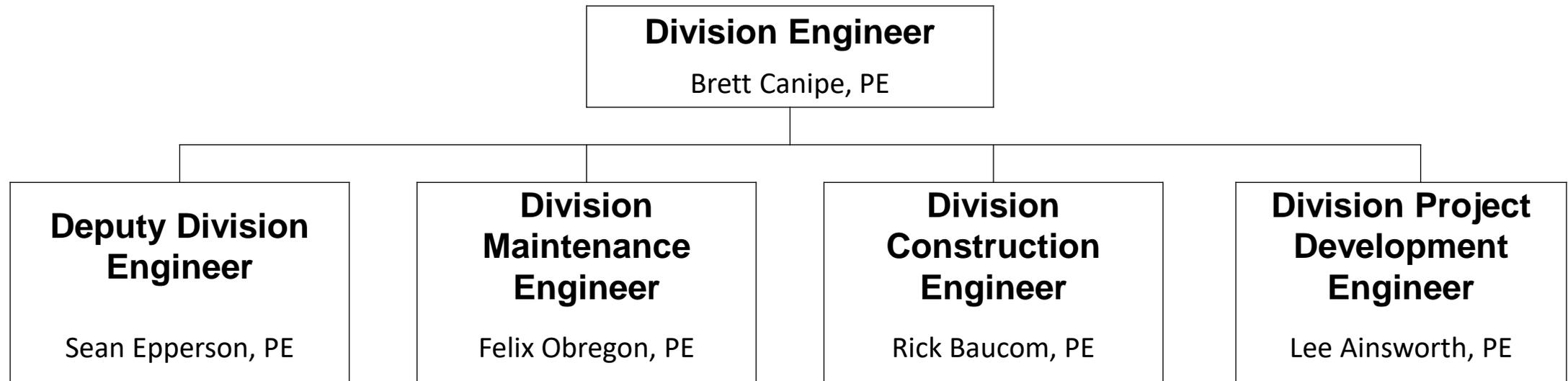
### ACTIVE CONSTRUCTION PROJECTS

	TIP/WBS No#	DESCRIPTION	LET DATE	COMPLETION DATE	STATUS	CONSTRUCTION COST	CONTRACTOR	PROJECT ADMINISTRATOR	COMMENTS
V A R I O U S	2023CPT.10.1 5.20131 - Contract DJ00453	VARIOUS LOCATIONS - 9 sections of secondary roads	March 2023	November 2024	0% Complete	2.4 M	NJR Group, Inc.	NCDOT <b>Marc Morgan</b> 704-983-4380	Anticipate work to begin Summer 2024
	2023CPT.10.1 6.20132 Contract DJ00454	VARIOUS LOCATIONS - Sections of 10 secondary roads	March 2023	June 2024	75% Complete	416 K	Carolina Road Solutions LLC	NCDOT <b>Marc Morgan</b> 704-983-4380	CONstruction has begun and is moving well. Project is tracking to be completed ahead of schedule.
	2023CPT.10.1 4.10131 - Contract DJ00447	VARIOUS LOCATIONS - 1 Section of NC 3 and 3 sections of secondary roads	January 2023	October 2024	0% Complete	2.3 M	NJR Group, Inc.	NCDOT <b>Marc Morgan</b> 704-983-4380	Anticipate work to begin Spring 2024
	2022CPT.10.0 9.10131 - Contract C204686	VARIOUS LOCATIONS - 1 Section of NC 3 and 39 sections of secondary roads	December 2021	December 2023	60% Complete	5.5 M	NJR Group, Inc.	NCDOT <b>Marc Morgan</b> 704-983-4380	Project has experienced some delays. Currently tracking to be completed near the end of the calendar year.
	R-5790JG 44920.3.15	VARIOUS LOCATIONS - Installation of curb ramps.	April 2023	August 2024		486 K	East Construction Co., LLC	NCDOT <b>Jon Hinson</b> 980-523-0080	Project has been LET & Awarded. Anticipated completion date : August 2024
<b>PROJECTS UNDER DEVELOPMENT</b>									
U N D E R D E V E L O P M E N T	HE-0015	NC 49 @ Prince Circle (West of General Services Drive SW) Convert existing full access crossover to reduced conflict intersection with leftovers and signalized U-turn leftovers.	December 2021	TBD		2 M		NCDOT <b>Marc Morgan</b> 704-983-4380	Kroger opened the sole bid received. The single bid was 100% over engineer's estimate. Currently being reevaluated to determine next steps.
	SS-6210A 49966	Zion Church Road and Zion Church Road All-way Stop	December 2023	November 2023		121 K	NCDOT	NCDOT <b>Zach Gardner</b> 704-983-4400	Plans being developed for 5 foot widening radii.
	SS-6010AX 49833.3.1	Zion Church Road and Central Heights Drive All- way Stop	October 2023	November 2023		20 K	NCDOT	NCDOT <b>Zach Gardner</b> 704-983-4400	

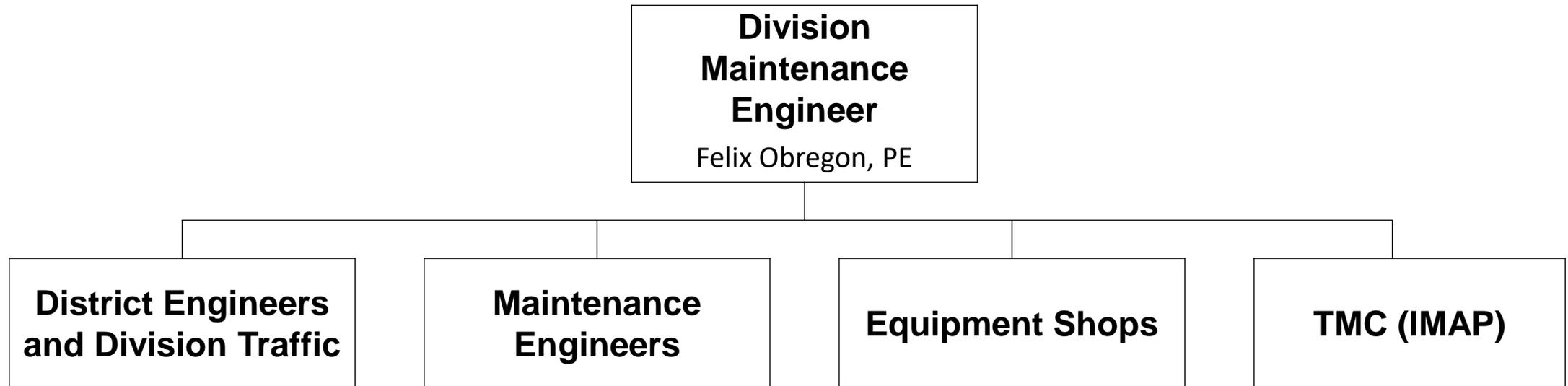
# Division 10: Org Chart

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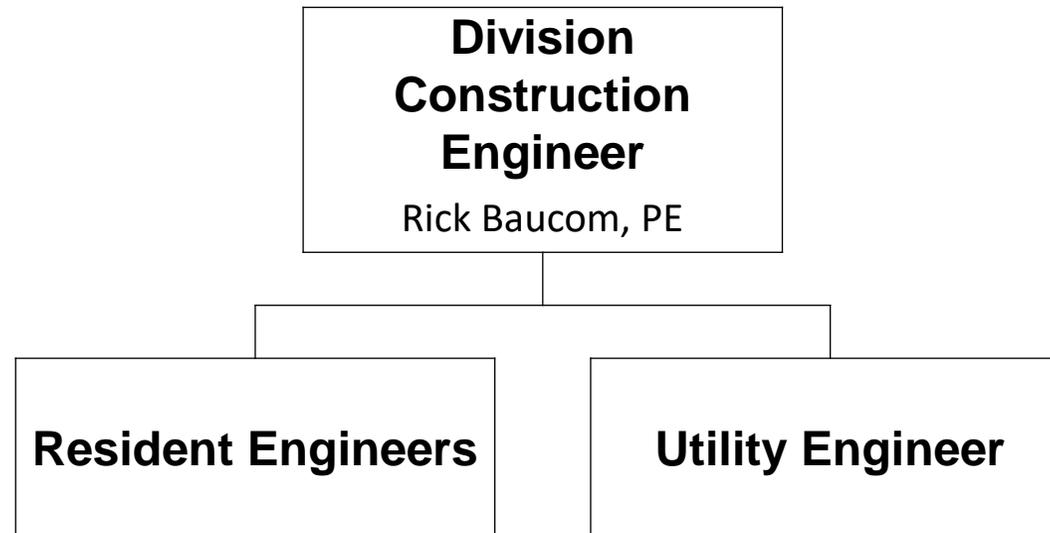
## Division 10 Org Chart – Division Engineer



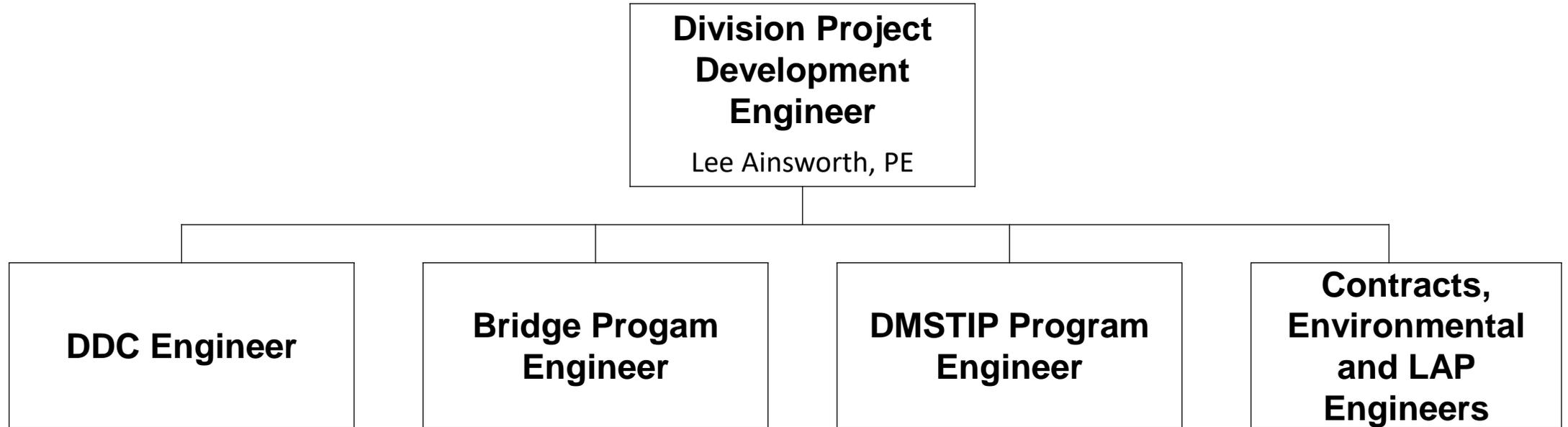
## Division 10 Org Chart – Division Maintenance



## Division 10 Org Chart – Division Construction



## Division 10 Org Chart – Division Project Development



# Division 10: Primary Points of Contact

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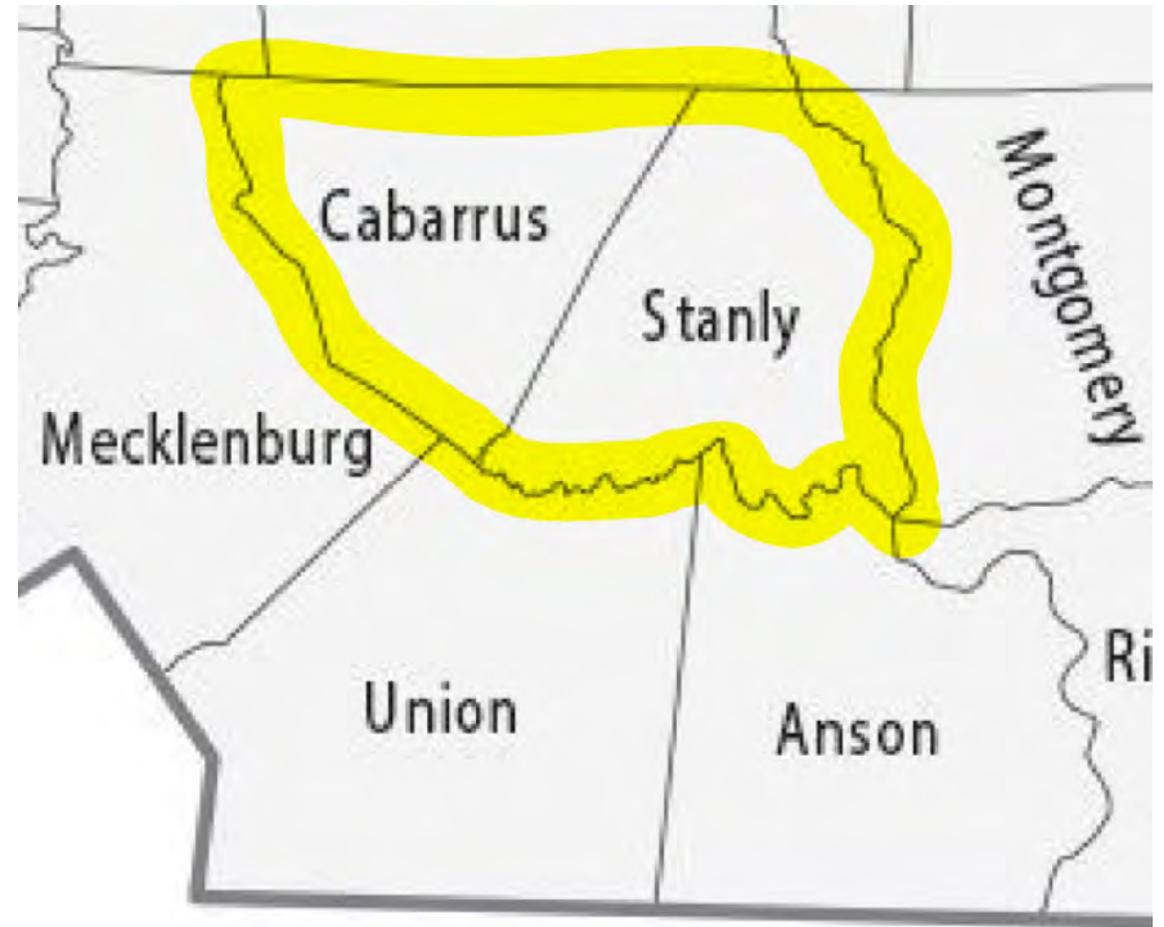
## Division 10 Primary Points of Contact

District 1 Engineer – Marc Morgan, PE

- Covers Cabarrus and Stanly Counties
- Office Number – 704 -983-4360
- Email – [mmorgan@ncdot.gov](mailto:mmorgan@ncdot.gov)

### Typical Staff Inquiries

- Driveway permits and encroachments
- Development review
- Coordination on capital projects
- Coordination on municipal projects
- Resurfacing maps/updates



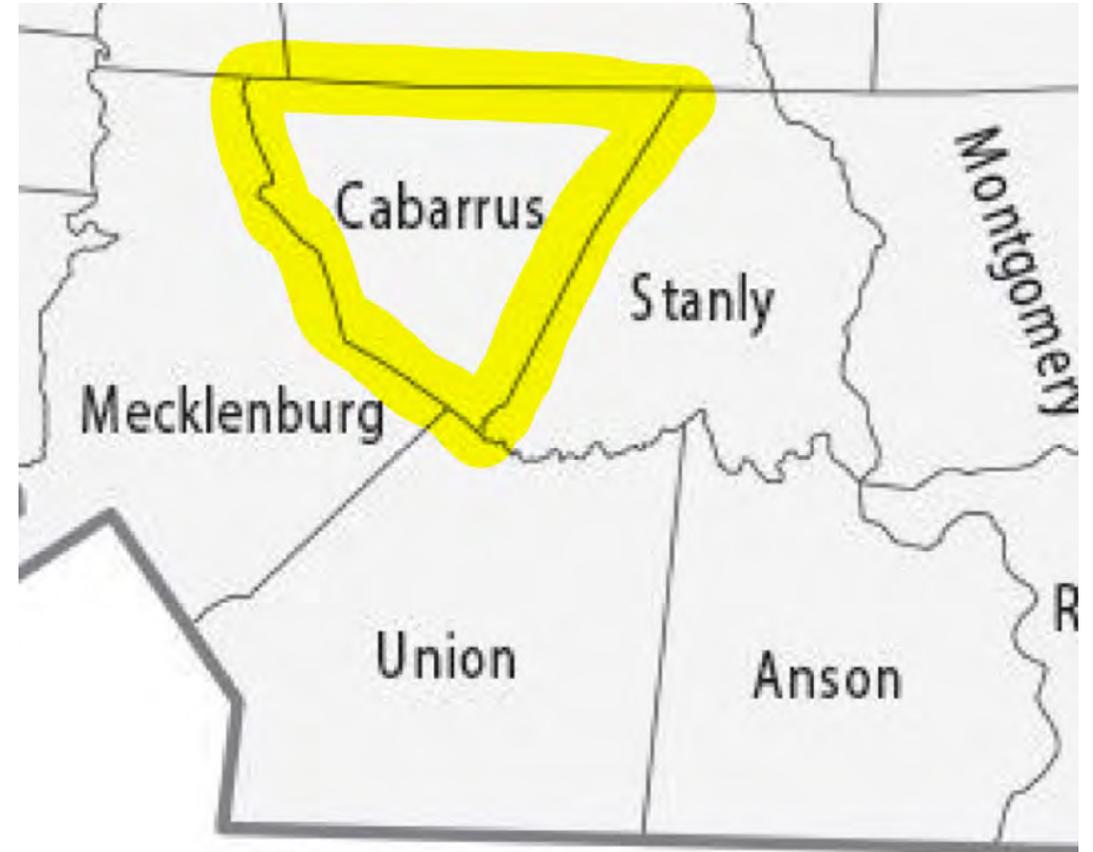
## Division 10 Primary Points of Contact

Cabarrus Co. Maintenance Engineer – Janice Hampton

- Covers Cabarrus County
- Office Number – 980 -287 -0040
- Email – [jhampton@ncdot.gov](mailto:jhampton@ncdot.gov)

### Typical Staff Inquiries

- Potholes and other roadway concerns
- Shoulder concerns
- Drainage concerns
- Mowing/grass concerns



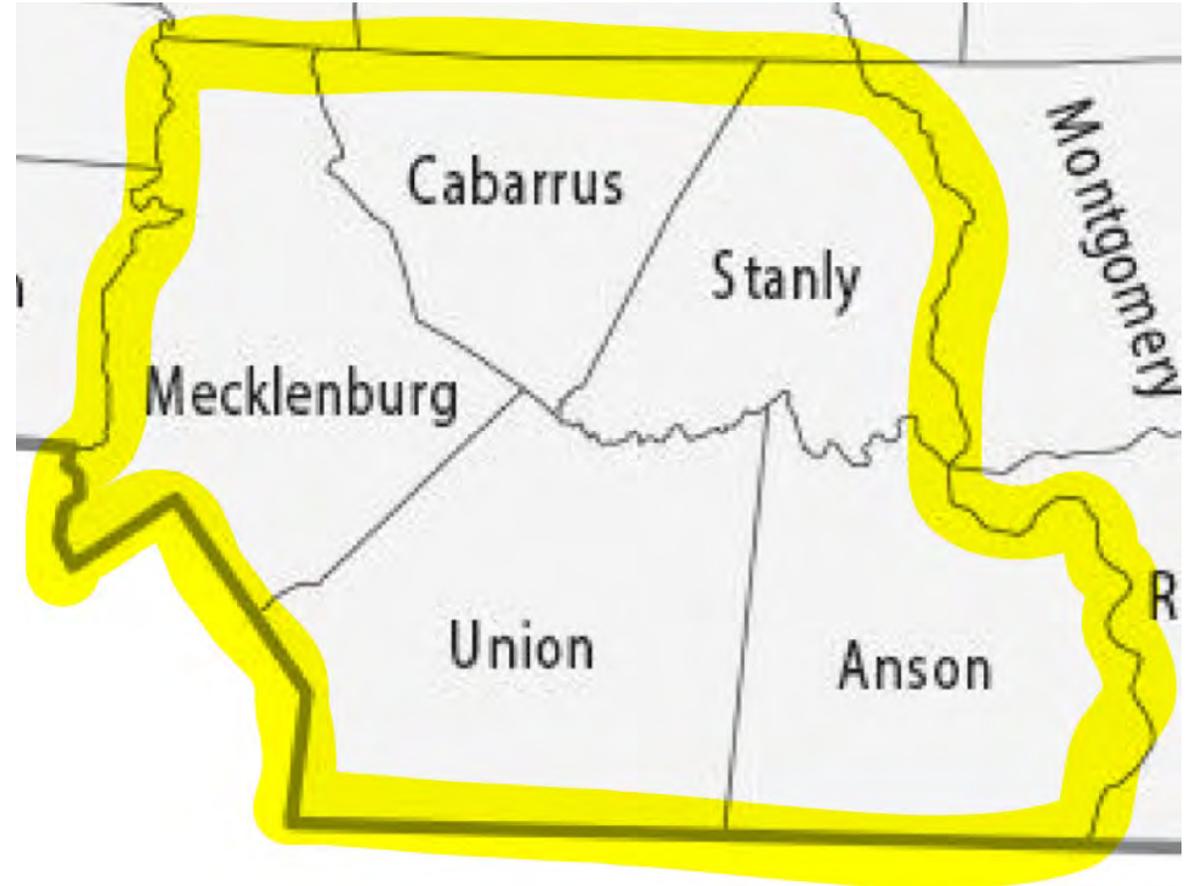
## Division 10 Primary Points of Contact

Division 10 Traffic Engineer – Zachary Gardner, PE

- Covers all of Division 10
- Office Number – 704 -983-4400
- Email – [zlgardner@ncdot.gov](mailto:zlgardner@ncdot.gov)

### Typical Staff Inquiries

- Maintenance of traffic signals, signs and markings
- Traffic signal timing/operation adjustments
- Intersection and curve safety/operation studies
- Speed limit studies
- Traffic Impact Analysis review



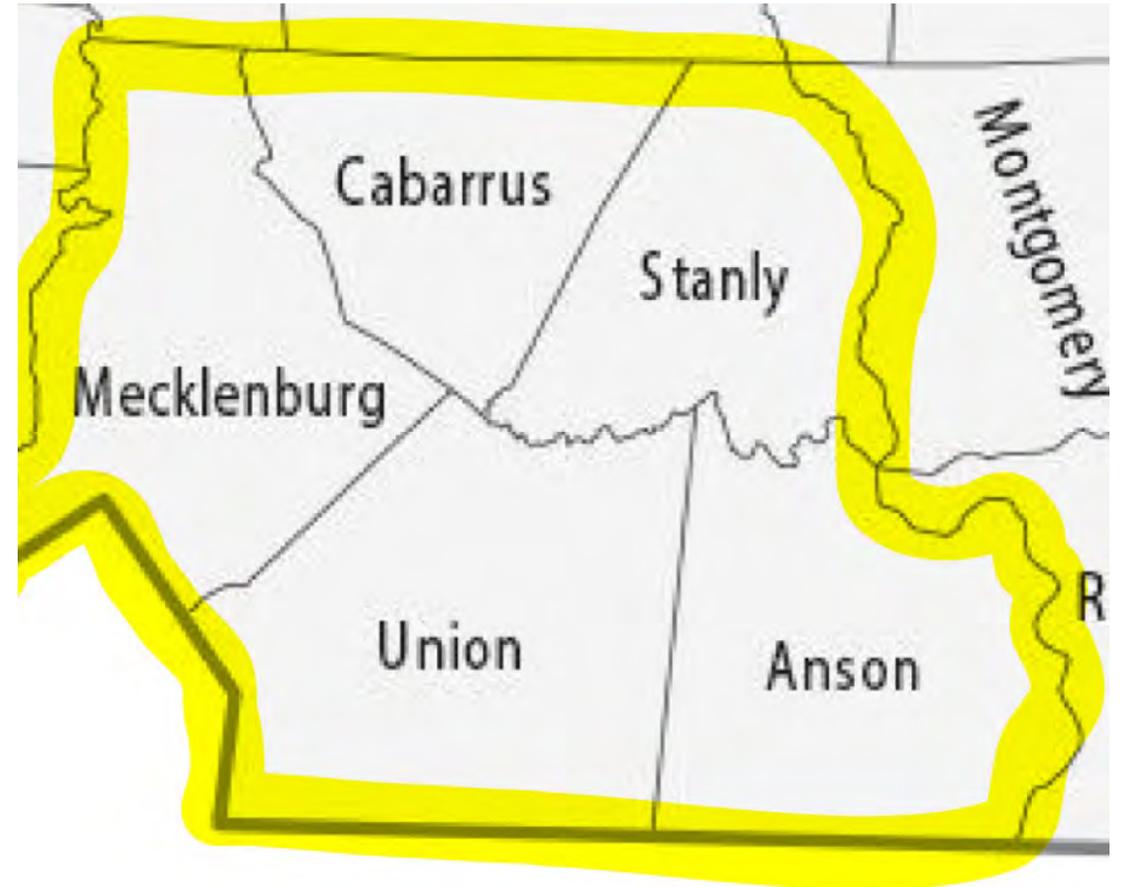
## Division 10 Primary Points of Contact

Division Planning Engineer – Theo Ghitea , PE

- Covers all of Division 10
- Office Number – 980 -262-6292
- Email – tghitea@ncdot.gov

### Typical Staff Inquiries

- Coordination with the MPO's and RPO
- Help determine potential funding options for future projects and track status of future projects
- Involvement in pedestrian -bike studies and to serve on steering committee
- Updates on the STI process and project submittals



Funding Category	10 year Budget Including Lookback Law minus DA Funding (starting budget)	Amount of STI Committed Projects	Remaining Available Budget for P7.0	Number of Uncommitted Projects	\$ Amount of Uncommitted Project costs within 2026-2035 window	Remaining Available Budget – Uncommitted Projects (Available for New Projs)*
<b>Statewide</b>	\$11.6B	\$7.7B	\$3.9B	50	\$4.7B	\$0
<b>Region A</b>	\$796M	\$756M	\$40M	2	\$100M	\$0
<b>Region B</b>	\$1.108B	\$1.074B	\$34M	2	\$116M	\$0
<b>Region C</b>	\$2.4B	\$1.1B	\$1.3B	24	\$1.1B	\$200M
<b>Region D</b>	\$1.477B	\$864.5M	\$613M	17	\$611M	\$2M
<b>Region E</b>	\$2.54B	\$2.48B	\$64M	3	\$81M	\$0
<b>Region F</b>	\$1.28B	\$1.05B	\$230M	6	\$167M	\$63M
<b>Region G</b>	\$884M	\$958M	-\$74M	5	\$122M	\$0
<b>Division 1</b>	\$806M	\$763M	\$43M	1	\$2M	\$41M
<b>Division 2</b>	\$826M	\$881M	-\$55M	0	\$0	\$0
<b>Division 3</b>	\$714M	\$753M	-\$39M	2	\$34M	\$0
<b>Division 4</b>	\$682M	\$656M	\$26M	3	\$18M	\$8M
<b>Division 5</b>	\$518M	\$502M	\$16M	2	\$30M	\$0
<b>Division 6</b>	\$660M	\$461M	\$199M	5	\$183M	\$16M
<b>Division 7</b>	\$681M	\$434M	\$247M	26	\$171M	\$76M
<b>Division 8</b>	\$831M	\$757M	\$74M	6	\$44M	\$30M
<b>Division 9</b>	\$692M	\$587M	\$103M	1	\$88M	\$15M
<b>Division 10</b>	\$473M	\$502M	-\$29M	1	\$9M	\$0
<b>Division 11</b>	\$853M	\$956M	-\$103M	1	\$11M	\$0
<b>Division 12</b>	\$821M	\$705M	\$116M	2	\$39M	\$77M
<b>Division 13</b>	\$748M	\$643M	\$105M	4	\$60M	\$45M
<b>Division 14</b>	\$753M	\$555M	\$198M	6	\$80M	\$118M

\*This assumes that all uncommitted projects (carryover projects) score high enough in P7.0 to be funded in the 2026-2035 STIP

Notes to keep in mind:

- This is a snapshot in time:
  - only accounts for estimates and bid awards at this time
  - we have to assume the same look back law as last cycle
- It can and will change by the time our STIP managers start programming the 2026-2035 STIP
- A variety of things affect these numbers:

- \$700M in increases (cost estimates, additional authorizations and bid award adjustments) in committed projects since we locked down the STIP in March ahead of the June adoption
- Some buckets had almost all their projects committed. This means less available funding for new projects.
- There's also cases where a project may be committed with ROW starting in that last year (2028) and CON starting around 2031. That means the next 2 years we pick up in the STIP, are heavy cash flow years (2034 and 2035)
- One last item to keep in mind, the funding availability shown is relative to 0% over programmed. We are allowed to go up to 10% over and we use that as necessary when programming. On average, the Division needs buckets were about 7% over programmed in this last STIP.

**Division 10 P7 Draft Submittal List**

	<b>Route / Intersection</b>	<b>Description</b>	<b>From / Cross Street</b>	<b>To</b>	<b>MPO/RPO</b>	<b>County</b>
1	Poplar Tent Road	Widen from 2 to 4 lanes	Harris Road	NC 73	CRMPO	Cabarrus
2	Albemarle Road (NC 24-27)	Intersection improvements at Albemarle Road and Harris Boulevard (NC 24) / Lawyers Road	Harris Boulevard / Lawyers Road	-	CRTPO	Mecklenburg
3	I-277 (Belk Freeway)	Add one lane in each direction and improve interchanges	South Boulevard	Kenilworth Avenue	CRTPO	Mecklenburg
4	I-485	Interchange improvements at I-485 and Harrisburg Road	Harrisburg Road	-	CRTPO	Mecklenburg
5	Lancaster Highway	Widen from 2 to 4 lanes	Ballantyne Commons Parkway	US 521	CRTPO	Mecklenburg
6	NC 27 (Mt Holly Road)	Widen from 2 to 4 lanes	Moore's Chapel Road	I-485	CRTPO	Mecklenburg
7	US 521 (Johnston Road)	Construct grade separation on US 521 at Ballantyne Commons Parkway and Brixham Hill Avenue	I-485	Ballantyne Commons Parkway	CRTPO	Mecklenburg
8	US 74	Widen from 4 to 6 lanes	I-485	Catawba River	CRTPO	Mecklenburg
9	NC 75	Intersection improvements at NC 75 and Potter Road	Potter Road	-	CRTPO	Union
10	NC 84	Intersection improvements at NC 84 and Wesley Chapel Road	Wesley Chapel Road	-	CRTPO	Union
11	US 74	Widen from 4 to 6 lanes	Rocky River Road	Indian Trail - Fairview Road	CRTPO	Union
12	US 74	Intersection improvements at US 74 and US 601	US 601	-	CRTPO	Union
13	Waxhaw Parkway West	Construct roadway on new location	Terminus of existing Waxhaw Parkway	Helms Road	CRTPO	Union
14	TBD					



**NORTH CAROLINA**  
Department of Transportation

# Reduced Conflict Intersections

NCDOT Division of Highways

Division 10

October 18, 2023



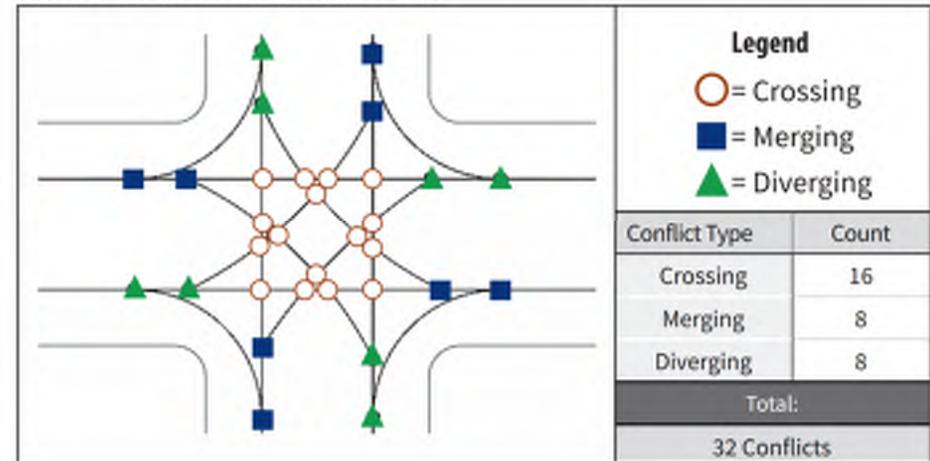
Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina

# Traditional Intersection and Conflict Points

A traditional T-intersection has a total of 32 potential conflict points for collisions between vehicles.



Conventional Intersection: Conflict Points

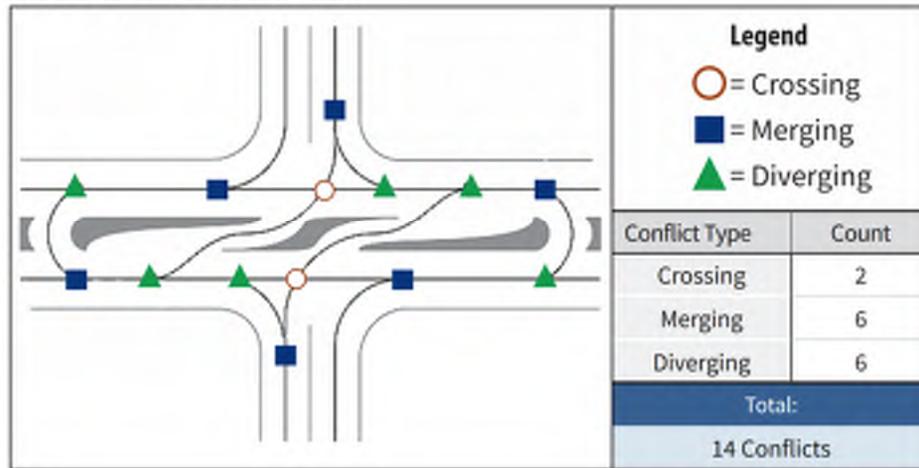


## What is a reduced conflict intersection?

A reduced conflict intersection (RCI) – previously referred to as a superstreet or a synchronized street – is a general term used to describe several types of designs that can be used to improve safety and traffic flow on a highway.

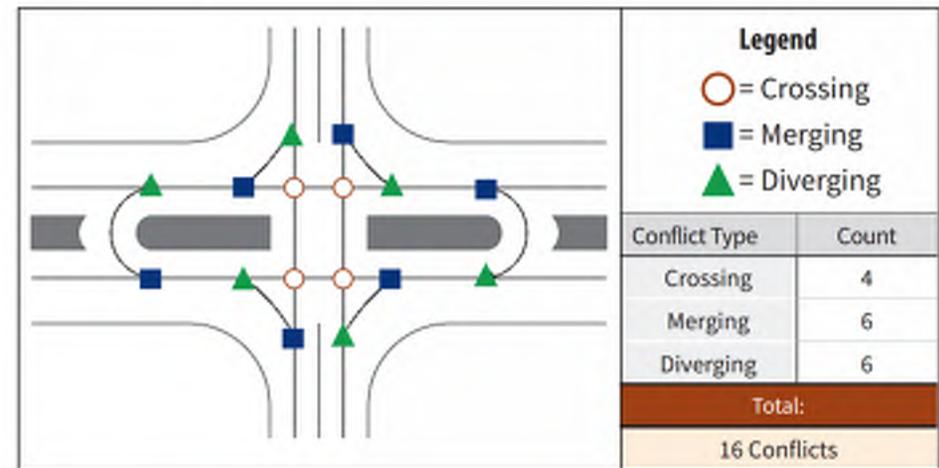
There are variations to the designs, but they all function the same by reducing by almost half the number of potential locations, or conflict points, where drivers and pedestrians can collide. The reduction in conflict points is from altering how left-turns occur.

**RCUT Intersection: Conflict Points**



(Restricted Crossing U-turn)  
 Ex. NC 49 @ Old Charlotte Rd  
 Ex. NC 49 @ Stough Rd

**MUT Intersection: Conflict Points**



(Median U-turn)  
 Ex. Poplar Tent Rd @ Derita Rd

## How does it work?

In a Restricted Crossing U-turn (RCUT), the direct left-turn and through movement from the side street is modified. Side street vehicles make a right-turn followed by a U-turn at a designated location before continuing in the desired direction.



NC 49 & Old Charlotte Hwy, Cabarrus County

## How does it work?

In a Median U-turn (MUT), the direct left-turns from both the major and side street are modified. All through movements are maintained in a MUT. Instead of making a left-turn at the main intersection, vehicles are direct to make a U-turn followed by a right-turn at the intersection.



Poplar Tent Rd & Derita Rd, Cabarrus County

# Why install RCI's?

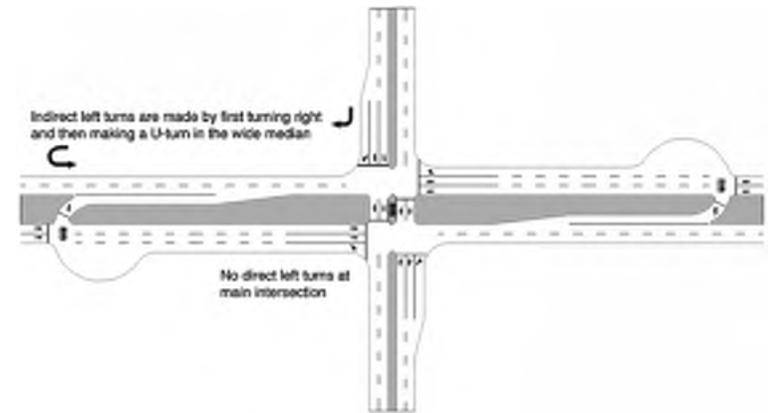
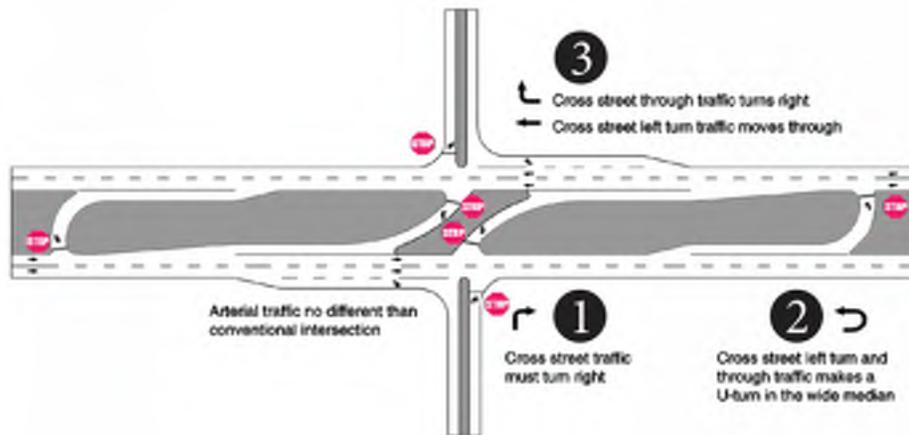
- SAFETY. RCI intersections simplify decision-making for drivers and minimize the potential for higher severity crash types, such as head-on and angle.

**RCUT**  
Two-Way Stop-Controlled to RCUT:  
**54%**  
reduction in fatal and injury crashes.<sup>2</sup>

**Signalized Intersection to Signalized RCUT:**  
**22%**  
reduction in fatal and injury crashes.<sup>3</sup>

**Unsignalized Intersection to Unsignalized RCUT:**  
**63%**  
reduction in fatal and injury crashes.<sup>4</sup>

**MUT**  
**30%**  
reduction in intersection-related injury crash rate.<sup>5</sup>



Data source: FHWA

## Why install RCI's?

- TRAVEL TIME SAVINGS. RCI intersections implemented along a corridor provide shorter travel times and improved efficiency.
- NCDOT compared travel times before and after RCI corridor implementation along US 74 from Indian Trail-Fairview Rd to Sardis Church Rd (2.8 miles) during non-holiday weeks in 2016-2018 to 2022-2023.

US 74 Travel Time Savings	
Eastbound	Westbound
14% Overall Reduction	18% Overall Reduction
~30% Reduction per direction when combining AM & PM Peak Hours	

Data source: NCDOT

## Other RCI Benefits

- **TRAFFIC OPERATIONS.** Vehicle throughput increases 30-50% depending on the type of RCI used. Travel time is reduced due to simplified traffic signal phasing allowing for more green time.
- **FLEXIBILITY.** RCI's are suitable for and adaptable to a wide variety of circumstances, ranging from isolated rural, high-speed locations to urban and suburban high-volume corridors. Work well when consistently used along a corridor but can also be used effectively at individual intersections.
- **COST & IMPACTS.** Less costly and have fewer impacts than a grade separated interchange and faster construction time.

## NCDOT Research Project RP-2020-47 “Economic Impact of SuperStreets”

- Most results indicated a null to positive result on business activity except industrial uses.
- Business survey indicated that businesses with larger number of customers are more likely to believe RCI’s make their business easier to reach.
- Industrial users were less likely to agree that RCI’s make business easier to reach.



# Contact Us

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**Theo Ghitea, PE**

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980-262-6292



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www.wmpo.org

August 25, 2023

Mr. Chad Kimes P.E.  
North Carolina Department of Transportation  
5501 Barbados Blvd.  
Castle Hayne, NC 28429

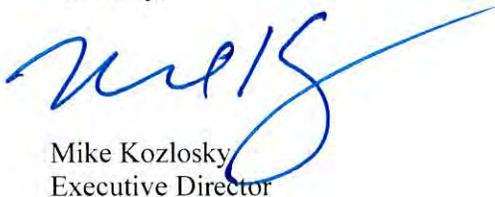
Dear Mr. Kimes,

The Wilmington Urban Area Metropolitan Planning Organization (WMPO) is pleased to offer this Letter of Support as evidence to the North Carolina Department of Transportation's highway improvement design type called reduced conflict intersections (RCIs), also referred to as a superstreet, a synchronized street, or a median U-turn, implemented to improve safety and traffic flow along corridors with growing traffic volumes and high crash rates. The superstreet was first installed in North Carolina in the Wilmington Urban Area and our region contains a number of RCIs today.

NCDOT has implemented reduced conflict intersections with and without traffic signals where conventional intersections have failed to reduce crashes. RCIs, if designed correctly, can improve safety for motorists and pedestrians, limiting the points of conflict for all users. The RCI design benefits travel time savings analysis (TTS), which is a key factor in determining the cost-benefit of projects submitted by the WMPO to NCDOT. In consideration of funding challenges, the WMPO recognizes the advantage of the RCI design requiring less right-of-way or property impacts than adding travel lanes or building interchanges and overpasses, allowing the WMPO to focus funding on additional improvements and opportunities.

By way of this letter, the WMPO endorses and supports the NCDOT in your continuing to implement appropriately designed RCIs and alternative intersections to improve safety and congestion along our roads and benefitting all modes in our communities.

Sincerely,



Mike Kozlosky  
Executive Director

Wilmington Urban Area Metropolitan Planning Organization



The Grand Strand Area Transportation Study



August 24, 2023

Mr. Chad Kimes, P.E., NCDOT Division 3 Engineer  
NCDOT Division 3 Headquarters  
5501 Barbados Blvd  
Castle Hayne, NC 28429

Mr. Kimes:

The Grand Strand Area Metropolitan Planning Organization (GSATS) is pleased to offer this Letter of Support for the use of Reduced Conflict Intersections (RCIs) as a design method, to improve safety and traffic flow along corridors with growing traffic volumes and high crash rates. The North Carolina Department of Transportation's highway improvement design type, also referred to as a superstreet, a synchronized street, or a median U-turn, implemented to improve safety and traffic flow along corridors with growing traffic volumes and high crash rates is a proven treatment that improves both highway capacity and safety.

NCDOT has implemented reduced conflict intersections with and without traffic signals where conventional intersections have experienced increased delay and serious and fatal injury rates. RCIs improve safety for motorists and pedestrians, limiting the points of conflict for all users. The RCI design benefits travel time savings analysis (TTS), which is a key factor in determining the cost-benefit level of projects submitted for evaluation by NCDOT. In consideration of funding challenges, GSATS recognizes the advantage of the RCI design requiring less right-of-way impacts than adding travel lanes or building interchanges and overpasses, allowing GSATS to focus funding on more financially feasible means of addressing transportation issues.

By way of this letter, GSATS endorses the NCDOT effort in continuing to implement the RCI design to improve safety and congestion along our roads, which benefits all modes and users in our communities.

Sincerely,

A handwritten signature in blue ink that reads "Mark Hoeweler".

Mark Hoeweler, AICP, ITE

1230 Highmarket Street, Georgetown, South Carolina 29440  
Phone: (843) 546-8502 Fax: (843) 527-2302

[www.gsats.org](http://www.gsats.org)  
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Printed on 10/16/23

## **NCDOT's policy regarding Congestion Mitigation and Air Quality Improvement Program and Carbon Reduction Program funding.**

The federal share (80 percent) for these programs is exempt from STI as determined by North Carolina General Statute 136-189.11 while the portion of state funds used for the required 20 percent state match shall be included in the applicable category of the Transportation Investment Strategy Formula. The following is criteria for NCDOT to provide state funds to match these projects.

In cases where the Transportation Planning Division (TPD) determined the eligibility for NCDOT to provide the 20 percent state match, and the local agency or Division disagree with this determination, the local agency or division can appeal the decision to the Director of Strategic Planning and Programming.

### ***Congestion Mitigation and Air Quality Improvement Program (CMAQ)***

Due to the way NCDOT distributes CMAQ funds, and state statutes, the type of project, and how the project was prioritized and selected the project are important factors to determine eligibility for NCDOT to provide the 20 percent match. There will not be any considerations for NCDOT to provide a match higher than the 20%; this does not limit the submitting agency from supplementing funding from other non-STI funding, or local funding.

1. Projects prioritized, selected, and funded by NCDOT **NCDOT Provides 20% match.**

These projects are those that were submitted to the Transportation Planning Division (TPD), prioritized, selected, and recommended funding by TPD. These projects must meet **all** the following:

- a. Must be an eligible project type that meets the criteria established by and not excluded by § 136-189.11. (c)(4)
- b. Project is not excluded by § 136-189.11(d)(3)(c)
- c. Project is on a state-maintained facility.
- d. Division supports the project and is willing to use appropriate STI category (bucket) to cover the required 20% match.

2. Projects prioritized, selected, and funded by MPO or RPO **NCDOT Provides 20% match.**

These projects are those that the MPO and RPO selected using the funds that they manage.

- a. Must be an eligible project type that meets the criteria established by and not excluded by § 136-189.11. (c)(4)
- b. Project is not excluded by § 136-189.11(d)(3)(c).
- c. Project is on a state-maintained facility.
- d. Division supports the project and is willing to use appropriate STI category (bucket) to cover the required 20 % match.
- e. The project would have scored sufficiently that NCDOT would have selected and funded the project as mentioned in 1 above.

3. Projects not in 1 or 2, prioritized, selected, and funded by MPO or RPO **Local Agencies Provides 20% match.**

NCDOT cannot provide the match for CMAQ projects that do not meet all the requirements of either 1 or 2 above.

### **Carbon Reduction Program (CRP)**

The federal CRP has been sub-allocated by the federal government to the MPOs and the NCDOT. There are legislative requirements for this program like CMAQ. There will not be any considerations for NCDOT to provide a match higher than the 20%; this does not limit the submitting agency from supplementing funding from other non-STI funding, or local funding.

4. Projects prioritized, selected, and funded by NCDOT **NCDOT Provides 20% match.**

These projects are those that were submitted to the Transportation Planning Division (TPD), prioritized, selected, and recommended funding by TPD. These projects must meet **all** the following:

- a. Must be an eligible project type that meets the criteria established by and not excluded by § 136-189.11. (c)(5).
- b. Project is not excluded by § 136-189.11(d)(3)(c).
- c. Project is on a state-maintained facility.
- d. Division supports the project and willing to use appropriate STI category (bucket) to cover the required 20 % match.

5. Projects prioritized, selected, and funded by MPO **NCDOT may provide 20% match.**

These projects are those that the MPO manages with funds distributed to the MPO by FHWA.

- a. Must be an eligible project type that meets the criteria established by and not excluded by § 136-189.11. (c)(5).
- b. Project is not excluded by § 136-189.11(d)(3)(c).
- c. Project is on a state-maintained facility.
- d. Division supports the project and willing to use appropriate STI category (bucket) to cover the required 20 % match.
- e. The project would have scored sufficiently that NCDOT would have selected and funded the project as mentioned in 3 above.
- f. The Division Engineer **chooses** to include the 20% matching funds in their division budget.

6. CRP Projects not in 4 or 5, prioritized, selected, and funded by MPO **Local Agencies Provides 20% match.**

NCDOT cannot provide the match for CRP projects that do not meet all the requirements of either 4 or 5 above.

### CMAQ Projects Submitted since July 18, 2023

TIP #	Location	Project Type	Federal	Local	Total	Contact
C-5603D	Old Concord Road (Ryan St to Jake Alexander Blvd)	Sidewalks	\$ 1,608,468	\$ 402,117	\$ 2,010,585	Wendy Brindle, PE
C-5603H	Brenner Avenue	Sidewalk and Intersection Improvements	\$ 1,589,158	\$ 397,289	\$ 1,986,447	Wendy Brindle, PE
BL-0060	Cox Mill Loop	Greenway and Bicycle/Pedestrian Bridge	\$ 3,680,000	\$ 920,000	4,600,000	George Berger, AICP
C-5603I	US 601/Flowes Store Rd/Miami Church Rd	Sidewalk and Intersection Improvements	\$ 4,505,114	\$ 1,126,278	\$ 5,631,392	Phillip Graham, PE
C-5502	Little Texas Road (Forest Park Dr to Mission Tripp St)	Sidewalk	\$ 986,400	\$ 246,600	\$ 1,233,000	Elizabeth Hassenfritz, PE
New Project	Roberta Road and Main Street	Roundabout	\$ 2,644,700	\$ 661,176	\$ 3,305,880	Mallory Hodgson, PE
				<b>\$ 3,753,461</b>		

**From:** [Epperson, Sean M](#)  
**To:** [pconrad@rlcassoc.com](mailto:pconrad@rlcassoc.com); "Phillip Graham"  
**Subject:** Union County Critical Intersection List  
**Date:** Friday, September 29, 2023 4:44:58 PM  
**Attachments:** [2019 Critical Intersection Analysis Report FINAL.pdf](#)  
[2020 Union County CIA Study Workbook FINAL.pdf](#)  
[2021 Union County CIA Study Workbook June 2021 FINAL Reduced.pdf](#)  
[2023 Draft Critical Intersection Analysis Report 7-12-23.pdf](#)

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Attached are some of the final products from the Phase 1 and Phase 2 Union County Critical Intersection studies. Phase 3 (I think they are calling it that) is underway currently. I am attaching a draft report for it. This is what will be used to go after funding to develop concepts and estimates. This [website](#) was used to get public input on the process.

Sean Epperson, PE  
Deputy Division Engineer  
NCDOT  
Division 10

704 983 4415 office  
704 957 6130 mobile  
[smepperson@ncdot.gov](mailto:smepperson@ncdot.gov)

716 W. Main St  
Albemarle, NC 28001

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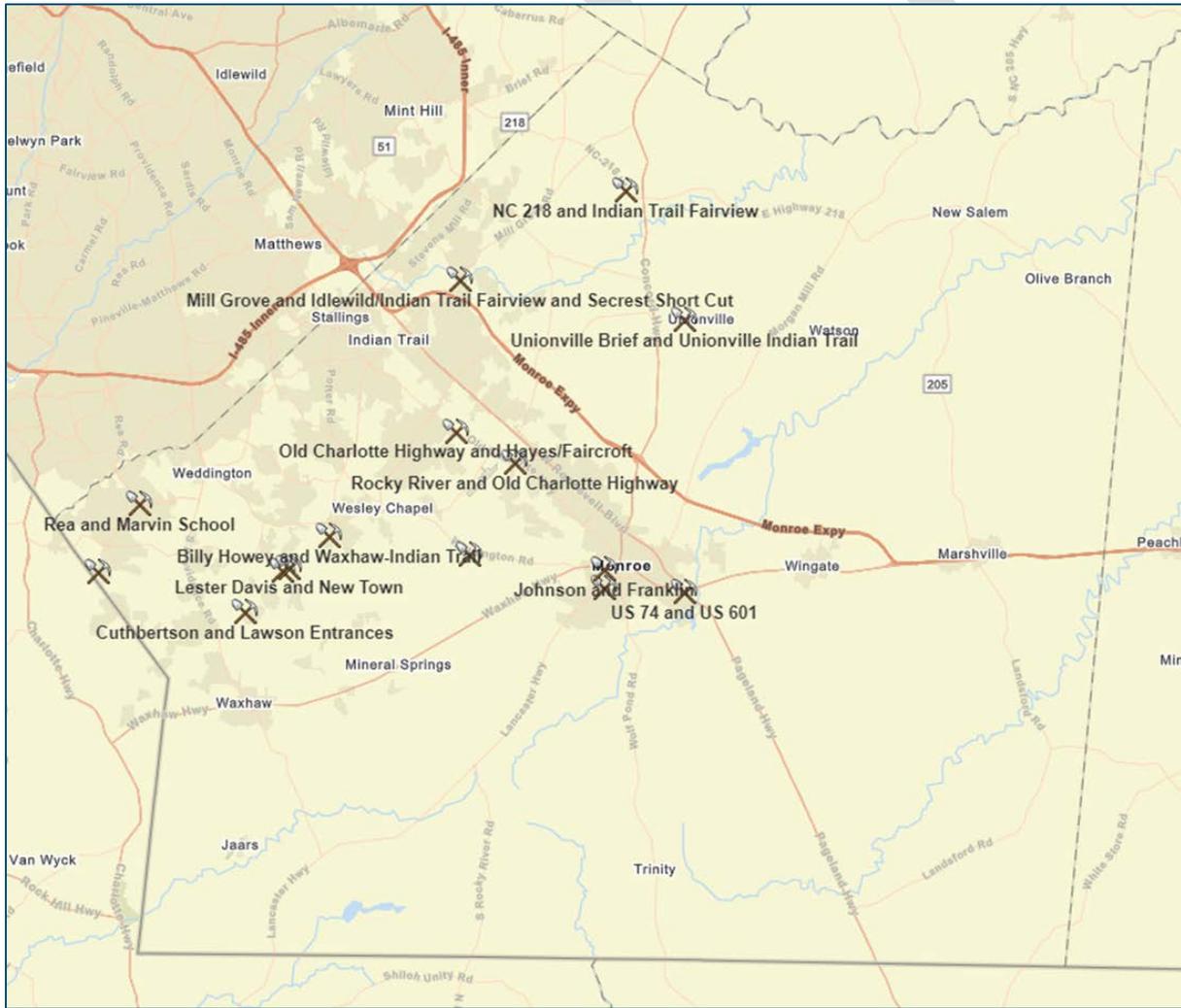
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## Recommended Intersections

The stakeholder committee identified the following 15 intersections at their August 2023 meeting. These intersections were identified based on a combination of technical need, feasibility, and local support. Some intersections, such as Stinson-Hartis/Younts/Indian Trail Fairview in Indian Trail or Sunset and Hayne in Monroe, scored well in the process, but were not included in the recommended list because the needed improvement was a wholesale corridor widening, which would be beyond the scope of this set of recommendations.

While the projects shown in the map are largely recommended based on scores because of this process, this list should not be interpreted as a rank order of need or priority. There are multiple funding sources available through CRTPO and the NCDOT, and each emphasizes different aspects of the issues with an intersection. Some candidate projects are only eligible for safety funds through the NCDOT, while others would be competitive for congestion-focused programs through CRTPO. Most would be appropriate projects to consider through several programs.

**Map 6: 2023 Critical Intersections**



The critical intersections from this process are listed below with some background information about traffic, safety, and municipal impacts.

**Table 5: 2023 Critical Intersection List**

<b>Intersection</b>	<b>Municipality</b>	<b>Traffic Growth</b>	<b>Safety (Total Crashes over Last Five Years)</b>
US 74 and US 601	Monroe	Moderate	More than 50 crashes
Rocky River and Old Charlotte Highway	Monroe	Moderate	More than 60 crashes
Mill Grove and Idlewild/Indian Trail-Fairview and Secrest Short Cut (Two Intersections)	Hemby Bridge and Indian Trail	Moderate	More than 70 crashes
New Town and Cuthbertson	Wesley Chapel	High	More than 30 crashes
Rea Road and Marvin School	None	High	11 to 20 crashes
Willoughby and NC 84	None	High	21 to 30 crashes
Old Charlotte Highway and Hayes/Faircroft (Two Intersections)	Indian Trail	High	21 to 30 crashes
NC 218 and Indian Trail-Fairview	Fairview	Moderate	21 to 30 crashes
Billy Howey and Waxhaw-Indian Trail	Wesley Chapel	High	11 to 20 crashes
Johnson and Franklin	Monroe	Moderate	21 to 30 crashes
Lester Davis and New Town	Wesley Chapel	High	21 to 30 crashes
Cuthbertson and Lawson/Brough Hall (Four Intersections)	Waxhaw	High	11 to 20 crashes
Bragg and Lancaster Ave	Monroe	Low	11 to 20 crashes
Stacy Howie and Waxhaw-Marvin	Marvin	High	11 to 20 crashes
Unionville-Indian Trail and Unionville-Brief/CJ Thomas	Unionville	Low	Up to 10 crashes

## Adoption Process

This overall analysis involved significant coordination and outreach with the public, municipalities, and the NCDOT. The Stakeholders Committee recommended this plan and list of intersections at its August 4, 2023, meeting. The process and recommendations were presented to the eight affected municipalities in August and September, with the opportunity for public feedback at each meeting. Each community endorsed the plan recommendations. The Union County Board of Commissioners then unanimously adopted the plan at its September 18, 2023, meeting.

## Implementation

The goal of this work is to improve the road network in Union County for the traveling public. Addressing identified issues at these locations will require money to plan, design, and construct needed improvements. Fortunately, there are multiple funding programs available. As identified issues coming from an adopted plan, any of these intersections could be immediately submitted for funding through the NCDOT or CRTPO, but they would likely not score well. While this process has identified these 15 locations as critical intersections, it has not identified the appropriate solution, or the benefits and costs of the solution. This information is critical to allow them to be appropriately vetted through the evaluation processes used by CRTPO and the NCDOT. The next step for many of these locations is to develop conceptual designs and cost estimates. Armed with that information, local governments and the NCDOT can then apply for funding and work to implement the projects.

**Develop Designs and Cost Estimates:** The CRTPO regularly funds planning projects to help study transportation issues. They issue an annual call for projects to fund both construction and planning projects. The next call for projects will be in late 2023. Union County, ideally in coordination with the affected municipalities, is encouraged to submit eligible intersections for a grant to conduct traffic engineering analysis and develop cost estimates. The benefit of this process will be that the county, affected municipalities, and NCDOT will each have a design and cost estimate to jointly use for funding applications.

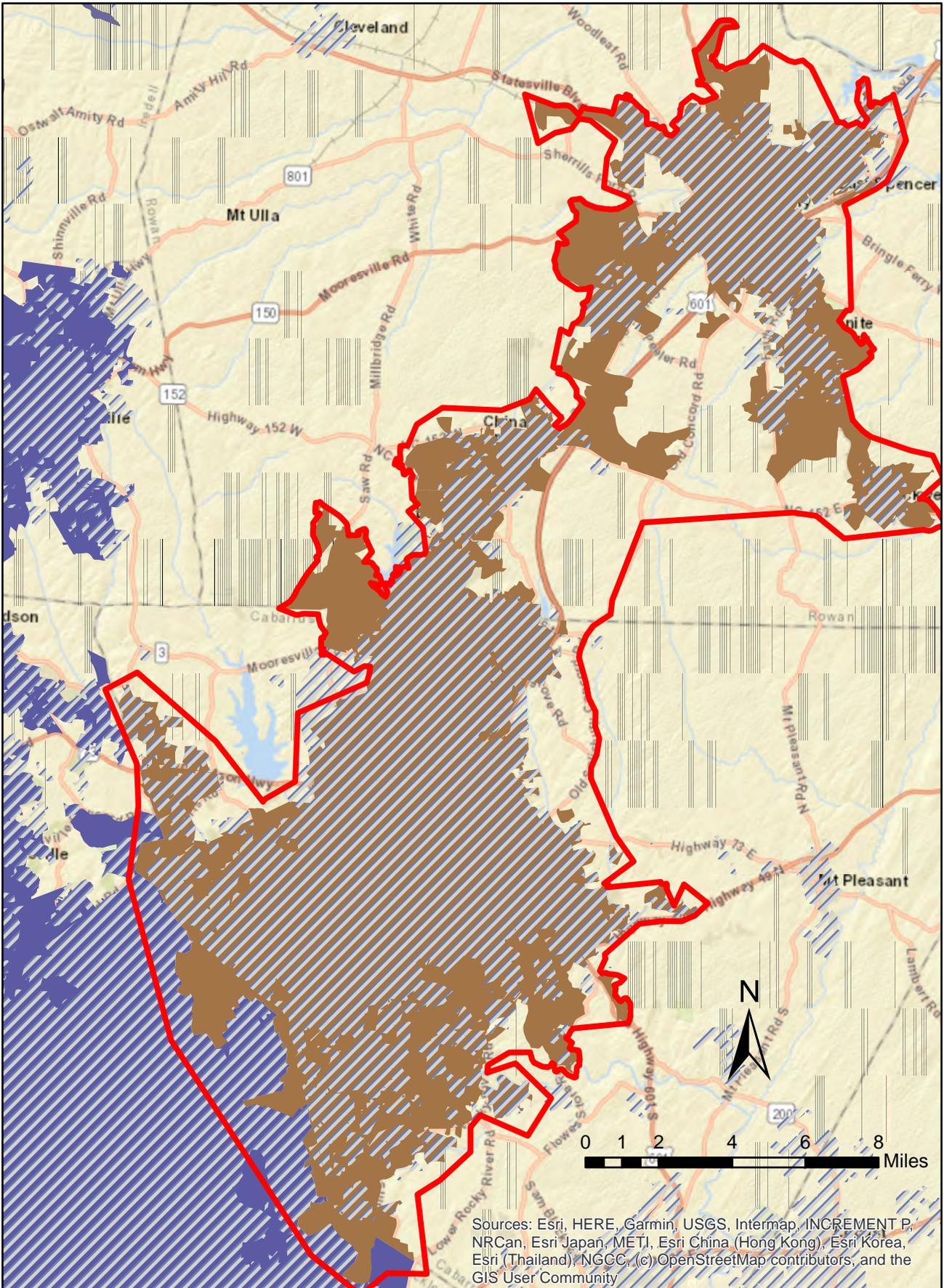
**Commit Local Government Funds to Projects:** All available funding sources (CMAQ, STBG-DA, spot safety, high hazard, high impact) consider local contributions in the scoring of the projects. The rationale is that increased local funding signals a commitment to the project, as well as allows the funding agency to “grow the pot” of available funding. Multiple municipalities, as well as the County itself, have successfully partnered with the NCDOT to acquire funding for specific projects. A recent example is a partnership between the NCDOT, Village of Marvin, CRTPO, and Union County to fund a roundabout at Waxhaw-Marvin and Bonds Grove Church Roads. This trend of increased local match is only expected to increase, and communities with intersections on this list should set aside funds to allow them to quickly respond to grant applications and partnering opportunities.

**Apply for Funding:** With the exception of a handful of municipalities, only the NCDOT has the capacity to implement intersection projects from this study. It is therefore incumbent upon all affected municipalities and Union County to regularly consult with the NCDOT Division 10 staff on upcoming grant applications and opportunities for partnership. This requires regular participation in CRTPO meetings, as well as discussion at countywide planners and CRTPO members quarterly meetings. These forums facilitate coordination and information sharing for Union County, its municipalities, and the NCDOT and should be used to advance such efforts.

***Integrate Mitigations from Proposed Developments into Funded Intersection Projects:*** Union County is a rapidly developing community, with larger developments frequently proposed. These developments are often required to address congestion and safety issues created by their development. While not required to mitigate or improve preexisting network deficiencies, coordinating any required or requested improvements into existing funded intersection projects can result in more streamlined project delivery and even additional network improvements. For example, several years ago, Union County partnered with a rezoning applicant for approximately \$380,000 in funds to apply for an intersection project at NC 84 and Potter Road, which later received funding for a roundabout based on this local match.

DRAFT

# 2020 US Census DRAFT Smoothed Area Boundary



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

**From:** [Bob Bushey](#)  
**To:** [Lawrence J. Weslowski \(weslowlj@concordnc.gov\)](#); [Franklin Gover](#); [Phil Conrad](#); [Anthony L. Hodges](#); [Charles Ratliff](#); [Jamie Smith](#); [Tisha Christy](#)  
**Subject:** Micro-transit feasibility study  
**Date:** Wednesday, October 4, 2023 8:41:50 AM

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Good Morning,

This isn't much of an update but I did receive an email on 9/27/2023 from Bryan Lopez with NCDOT. He only said that things would kick off soon. I will keep everyone in the loop as I hear more.

Bob Bushey  
Transportation Manager  
Cabarrus County  
O: 704-920-2932  
C: 980-521-4846



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<b>Jurisdiction</b>	<b>Project Description</b>	<b>Intersection or Street Location</b>	<b>Supplemental Local Data Available (Y or N)</b>	<b>Additional Comments</b>
<b>Town of Harrisburg</b>	ADA Analysis	Morehead Road between Hwy 49 to Rocky River Crossing & a Portion of Rocky River Crossing (approximately 1 mile of sidewalk)	Y	The Town would like to get an idea of what improvements are needed for these intersections and sidewalks to meet ADA. Ideally report would be provided with supplemental data in a GIS shapefile. Morehead Road sidewalk is a Town-maintained sidewalk on an NCDOT route.
<b>Town of Landis</b>	Pedestrian/Bicycle	951 Kimball Road	N	YMCA and soccer field no pedestrian sidewalks or bicycle areas
<b>Town of Faith</b>	Pedestrian and Cyclist Safety	Main St from Brown St to School St	N	Many active pedestrians & cyclists in this congested stretch of Main St



## CRAFT Technical Committee Meeting

Tuesday, July 25 2023 @ 10:00 AM

### MINUTES

Attendees: Andy Bailey, NCDOT; Daryl Vreeland, NCDOT; Doug Frate, SCDOT; Jason Wager, Centralina; Brian Elgort, CRPTO; Neil Burk, CRPTO; Travis Johnson, CRTPO; Loretta Barren, FHWA; Theo Ghitea, NCDOT; Bob Cook, CRTPO; Temekia Dae, CRTPO; Lee Snuggs, RRRPO; Julio Paredes, GCLMPO; Theo Thomson, CRPTO; David Williams, Gaston County; Johanna Quinn, CDOT; Brian Horton, CATS; Alex Riemondy, CDOT; Jerome Miller; James Rotenberry, NCDOT ; Arthur Cashwell, GCLMPO; Juan G. Garcia, Gaston County; Jerrel Leonard, CRPTO; Randi Gates, GCLMPO; David Hooper, RFATS; Emily Stupka, NCDOT; Curtis Bridges, CRPTO; Andy Gryzyski, CDOT; Phil Conrad, Cabarrus-Rowan MPO; Roger Castillo, NCDOT.

- A. Welcome & Introduction:** Stephen Allen, CRCOG began the online zoom meeting at 10: 01 AM and welcomed everyone in attendance.
- B. Approval of May 23, 2023 Minutes:** Mr. Allen asked if there were any corrections, additions and/or deletions to the May 23, 2023 minutes. Mr. Hooper proposed a minor change. Mr. Hooper noted “Item 4” the upcoming ITS plan in North Carolina, that RFATS is not a participant, and asked if the changes could be made. Ms. Gates made the motion to approve, and Mr. Hooper seconded the motion. It was approved unanimously.
- C. CRAFT Workplan Agenda for FY23-24:** The meeting was led by Mr. Allen, who led the group through an in-depth discussion of the 2023-2024 workplan. Mr. Allen walked through each of the four main topic areas of the workplan, including administrative, planning, and project coordination, planning studies/initiatives, and legislative/grant planning, seeking open input from the members. Mr. Allen received significant input from the members during the discussion, making live changes to the workplan during the meeting. The following changes/notes were made and are identified divided by the bold highlighted section below:
- 1) Administrative:**
- Item 1 – Technical Committee - Meeting Schedule - No change.
  - Item 2: Executive Committee: A lengthy discussion occurred by the group concerning the MOA concerning the current viability/functionality of the agreement and the proper use and purpose of the Executive Committee
  - Item 3: Annual Agenda Review & Priority Setting - No change.
  - Item 4: UPWP Planning Priorities & Budgeting - No change.

## **2) Planning and Project Coordination:**

- Item 1: Metropolitan Transportation Plan: This item is scheduled as a reoccurring agenda item (as needed) at each meeting. RFATS will be initiating MTP in 2024.
- Item 2A: TDM: Keep September as an agenda item, may add additional dates. Add Martin Kinnamon's name as the new contact.
- Item 2B: Add as potential September discussion item
- Item 3: Project Coordination - No change.
- Item 4: Project Transparency - ArcGIS Online Mapping - No change.
- Item 5: Transportation Performance Management - No change.
- Item 6: Transportation Performance Management Project Prioritization -No change.
- Item 7: CTP / Thoroughfare Planning - No change.
- Item 8: CATS - No Change.

## **3) Planning Studies / Initiatives:**

- Item 1A: Regional Freight Mobility Plan (ITS/ITM Strategic Action Plan) No Change.
- Item 1B: Regional Strategic Freight Plan - No Change. No regional freight study planned on the horizon.
- Item 2: Regional Transit Plan Implementation (Connect) - No Change.
- Item 3: CAV Task Force - Add Luke Lowry as primary contact. Mr. Wager provided an overview of the current status.
- Item 4: Removed Strategic Planning CRPTO as a request by Mr. Cook
- New Item 4: Household Survey – Requested as addition by Ms. Riemondy, CDOT, asked that Household Travel Survey be added to the schedule for September and May.

## **4) Legislative Grant Planning**

- Item 1: Infrastructure Investment and Jobs Act of 2021 - No Change. Ms. Barren, FHWA indicated that she had no current update
- Item 2: Renamed "2022 Census Urbanized Area Data Release" to "MPO Boundary/FHWA/FTA Allocation Funding," at the request of the group.

Mr. Allen thanked the group for their participation

### **D. MPO Boundary Discussion – Metropolitan Planning Areas – Andy Bailey, NCDOT**

Mr. Bailey discussed MOAs required for any MPOs that extend into the Charlotte Urbanized Area, across county lines, and the South Carolina state line. Boundary Shapefiles have been distributed. The MOAs need to be approved by the individual MPO Policy Boards by the end of the year and, ideally, submitted by November 2023.

### **E. Connect Beyond Update – Jason Wager, Centralina:**

- 1) Mr. Wager discussed Centralina's submittal of the "USDOT - Regional Infrastructure Accelerator Grant." The intent is to build capacity in the region and to ready projects. The main service lines include Infrastructure Finance innovation, Pipeline Project Facilitation (Silver Line design into Gaston County and Mobility Hub implementation), and TOD Innovation.

- 2) Mr. Wager also discussed the EPA's Climate Pollution Reduction Grant, which will allow the (MSA) region to apply for competitive grants. The first round of funding is expected to occur in the first quarter of 2024. Centralina will also be doing some community outreach to support their effort. Centralina has not yet received the cooperative agreement from the EPA. Expected deliverables include the Priority Climate Action Plan in March 2024, the Comprehensive Climate Action Plan – Summer 2025, and Project Status Reporting in 2027.
- 3) Mr. Wager went on to discuss two other projects they were working on, including: Pilot projects for regional transit coordination that CATS is currently using and the transit planning tool from Remix.
- 4) He discussed advancing the Plan Committee met on May 19th and will meet again on July 28th, their 4th meeting—discussions were related to regional coordination, governance approaches, and funding challenges.
- 5) He discussed Improving Transportation Options for Older Adults. A Transportation Guide for Older Adults was developed, and Mr. Wager provided a link to the document.
- 6) Lastly, he discussed the Justice 40 Initiative and that they have received funding for a two-year position for a Community Engagement Coordinator. They are currently setting up interviews.

**F. Next Meeting Date:** Mr. Allen noted that the next meeting is scheduled for September 26, 2023, and will be hosted by CRPTO. Mr. Cook asked the group if they objected to an in-person meeting.

**G. Other Business:**

Ms. Gates asked if the group still wanted to offer a hybrid approach to the CRAFT Meetings. In the past some have attended in person, but most choose the virtual platform. Mr. Cook suggested that there appears to be a consensus to conduct the meetings virtually.

**H. Adjournment:** The meeting adjourned at approximately 11:09 am.

Respectively submitted,

*Stephen A Allen*

Stephen A Allen, AICP